

*****Gaussian NBO Version 3.1*****
N A T U R A L A T O M I C O R B I T A L A N D
N A T U R A L B O N D O R B I T A L A N A L Y S I S
*****Gaussian NBO Version 3.1*****

/RESON / : Allow strongly delocalized NBO set
/PLOT / : Write information for the orbital plotter

Analyzing the SCF density

Job title: Molden generated mol2

Storage needed: 7831912 in NPA, 10391205 in NBO, 17213248 in NLMO (33504081 available)

NATURAL POPULATIONS: Natural atomic orbital occupancies

NAO	Atom	No	lang	Type(AO)	Occupancy	Energy
1	C	1	S	Cor(1S)	1.99866	-9.74312
2	C	1	S	Val(2S)	0.91258	-0.15652
3	C	1	S	Ryd(3S)	0.00955	1.36430
4	C	1	S	Ryd(4S)	0.00076	2.34685
5	C	1	S	Ryd(5S)	0.00001	20.68659
6	C	1	px	Val(2p)	1.09440	-0.03788
7	C	1	px	Ryd(3p)	0.00150	1.01460
8	C	1	px	Ryd(4p)	0.00050	1.59088
9	C	1	py	Val(2p)	0.92636	-0.05262
10	C	1	py	Ryd(3p)	0.00146	0.90220
11	C	1	py	Ryd(4p)	0.00043	1.47200
12	C	1	pz	Val(2p)	0.90356	-0.01019
13	C	1	pz	Ryd(3p)	0.01427	1.24759
14	C	1	pz	Ryd(4p)	0.00080	1.55569
15	C	1	dxy	Ryd(3d)	0.00045	2.01034
16	C	1	dxz	Ryd(3d)	0.00223	2.42213
17	C	1	dyz	Ryd(3d)	0.00220	2.34682
18	C	1	dx2y2	Ryd(3d)	0.00032	2.03559
19	C	1	dz2	Ryd(3d)	0.00147	2.76860
20	O	2	S	Cor(1S)	1.99981	-18.41339
21	O	2	S	Val(2S)	1.69933	-0.76751
22	O	2	S	Ryd(3S)	0.00223	1.38071
23	O	2	S	Ryd(4S)	0.00003	6.03000
24	O	2	S	Ryd(5S)	0.00000	40.67539
25	O	2	px	Val(2p)	1.72668	-0.15911
26	O	2	px	Ryd(3p)	0.00513	0.79523
27	O	2	px	Ryd(4p)	0.00003	2.95877
28	O	2	py	Val(2p)	1.59521	-0.16678
29	O	2	py	Ryd(3p)	0.00349	0.75568
30	O	2	py	Ryd(4p)	0.00003	2.95301
31	O	2	pz	Val(2p)	1.57187	-0.20484
32	O	2	pz	Ryd(3p)	0.00205	0.66046
33	O	2	pz	Ryd(4p)	0.00015	3.08111
34	O	2	dxy	Ryd(3d)	0.00016	2.69838
35	O	2	dxz	Ryd(3d)	0.00127	2.97120
36	O	2	dyz	Ryd(3d)	0.00142	2.96156
37	O	2	dx2y2	Ryd(3d)	0.00015	2.71611
38	O	2	dz2	Ryd(3d)	0.00196	3.32929
39	C	3	S	Cor(1S)	1.99898	-9.73452
40	C	3	S	Val(2S)	0.92589	-0.18652
41	C	3	S	Ryd(3S)	0.00170	0.91213
42	C	3	S	Ryd(4S)	0.00042	2.03401
43	C	3	S	Ryd(5S)	0.00000	21.21279
44	C	3	px	Val(2p)	1.01149	-0.05903
45	C	3	px	Ryd(3p)	0.00297	0.88674
46	C	3	px	Ryd(4p)	0.00043	1.57562
47	C	3	py	Val(2p)	0.99048	-0.07465
48	C	3	py	Ryd(3p)	0.00244	0.81411
49	C	3	py	Ryd(4p)	0.00031	1.45698
50	C	3	pz	Val(2p)	1.03143	-0.03721

51	C	3	pz	Ryd(3p)	0.00483	1.21918
52	C	3	pz	Ryd(4p)	0.00047	1.64524
53	C	3	dxz	Ryd(3d)	0.00057	2.44868
54	C	3	dxz	Ryd(3d)	0.00080	2.43860
55	C	3	dyz	Ryd(3d)	0.00077	2.27424
56	C	3	dx2y2	Ryd(3d)	0.00057	2.01657
57	C	3	dz2	Ryd(3d)	0.00066	2.45955
58	C	4	S	Cor(1S)	1.99875	-9.77297
59	C	4	S	Val(2S)	0.86758	-0.17193
60	C	4	S	Ryd(3S)	0.00124	0.95271
61	C	4	S	Ryd(4S)	0.00064	1.89448
62	C	4	S	Ryd(5S)	0.00000	21.52096
63	C	4	px	Val(2p)	0.99698	-0.06921
64	C	4	px	Ryd(3p)	0.00365	0.94114
65	C	4	px	Ryd(4p)	0.00059	1.71734
66	C	4	py	Val(2p)	0.98781	-0.08412
67	C	4	py	Ryd(3p)	0.00434	0.88173
68	C	4	py	Ryd(4p)	0.00050	1.67950
69	C	4	pz	Val(2p)	1.00925	-0.05448
70	C	4	pz	Ryd(3p)	0.00318	0.98410
71	C	4	pz	Ryd(4p)	0.00057	1.74149
72	C	4	dxz	Ryd(3d)	0.00065	2.48300
73	C	4	dxz	Ryd(3d)	0.00088	2.47737
74	C	4	dyz	Ryd(3d)	0.00078	2.28956
75	C	4	dx2y2	Ryd(3d)	0.00052	2.13935
76	C	4	dz2	Ryd(3d)	0.00096	2.48512
77	C	5	S	Cor(1S)	1.99898	-9.73846
78	C	5	S	Val(2S)	0.92415	-0.19176
79	C	5	S	Ryd(3S)	0.00175	0.95500
80	C	5	S	Ryd(4S)	0.00041	1.96130
81	C	5	S	Ryd(5S)	0.00000	21.12705
82	C	5	px	Val(2p)	1.01557	-0.05915
83	C	5	px	Ryd(3p)	0.00362	1.08553
84	C	5	px	Ryd(4p)	0.00028	1.55908
85	C	5	py	Val(2p)	1.00204	-0.08074
86	C	5	py	Ryd(3p)	0.00299	0.85095
87	C	5	py	Ryd(4p)	0.00023	1.41213
88	C	5	pz	Val(2p)	1.03476	-0.04874
89	C	5	pz	Ryd(3p)	0.00381	1.05069
90	C	5	pz	Ryd(4p)	0.00045	1.56944
91	C	5	dxz	Ryd(3d)	0.00061	2.36795
92	C	5	dxz	Ryd(3d)	0.00072	2.42356
93	C	5	dyz	Ryd(3d)	0.00069	2.23993
94	C	5	dx2y2	Ryd(3d)	0.00050	2.04986
95	C	5	dz2	Ryd(3d)	0.00079	2.49314
96	C	6	S	Cor(1S)	1.99909	-9.72700
97	C	6	S	Val(2S)	0.97286	-0.20262
98	C	6	S	Ryd(4S)	0.00097	1.40548
99	C	6	S	Ryd(3S)	0.00010	1.36155
100	C	6	S	Ryd(5S)	0.00000	21.24141
101	C	6	px	Val(2p)	1.04595	-0.06720
102	C	6	px	Ryd(3p)	0.00207	0.97039
103	C	6	px	Ryd(4p)	0.00038	1.33378
104	C	6	py	Val(2p)	1.03385	-0.08476
105	C	6	py	Ryd(3p)	0.00178	0.80232
106	C	6	py	Ryd(4p)	0.00052	1.21978
107	C	6	pz	Val(2p)	1.15908	-0.05534
108	C	6	pz	Ryd(4p)	0.00372	1.18812
109	C	6	pz	Ryd(3p)	0.00051	1.15498
110	C	6	dxz	Ryd(3d)	0.00057	2.41960
111	C	6	dxz	Ryd(3d)	0.00065	2.37515
112	C	6	dyz	Ryd(3d)	0.00047	2.23660
113	C	6	dx2y2	Ryd(3d)	0.00046	2.02376
114	C	6	dz2	Ryd(3d)	0.00061	2.40319
115	C	7	S	Cor(1S)	1.99920	-9.73026
116	C	7	S	Val(2S)	0.97727	-0.20593
117	C	7	S	Ryd(3S)	0.00079	1.07366

118	C	7	S	Ryd(4S)	0.00009	1.43879
119	C	7	S	Ryd(5S)	0.00000	21.18819
120	C	7	px	Val(2p)	1.07125	-0.06675
121	C	7	px	Ryd(3p)	0.00294	0.91731
122	C	7	px	Ryd(4p)	0.00029	1.35642
123	C	7	py	Val(2p)	1.05722	-0.08545
124	C	7	py	Ryd(3p)	0.00225	0.83594
125	C	7	py	Ryd(4p)	0.00031	1.38056
126	C	7	pz	Val(2p)	1.08023	-0.04985
127	C	7	pz	Ryd(3p)	0.00352	0.96811
128	C	7	pz	Ryd(4p)	0.00034	1.28696
129	C	7	dxz	Ryd(3d)	0.00050	2.35943
130	C	7	dxz	Ryd(3d)	0.00065	2.38376
131	C	7	dyz	Ryd(3d)	0.00053	2.19720
132	C	7	dx2y2	Ryd(3d)	0.00034	1.98427
133	C	7	dz2	Ryd(3d)	0.00078	2.45320
134	C	8	S	Cor(1S)	1.99910	-9.72396
135	C	8	S	Val(2S)	0.97448	-0.19933
136	C	8	S	Ryd(4S)	0.00096	1.40520
137	C	8	S	Ryd(3S)	0.00009	1.37585
138	C	8	S	Ryd(5S)	0.00000	21.31134
139	C	8	px	Val(2p)	1.11738	-0.06646
140	C	8	px	Ryd(3p)	0.00292	1.05382
141	C	8	px	Ryd(4p)	0.00043	1.22424
142	C	8	py	Val(2p)	1.04949	-0.08148
143	C	8	py	Ryd(3p)	0.00227	0.83420
144	C	8	py	Ryd(4p)	0.00050	1.21758
145	C	8	pz	Val(2p)	1.06886	-0.04826
146	C	8	pz	Ryd(3p)	0.00257	1.12803
147	C	8	pz	Ryd(4p)	0.00025	1.36733
148	C	8	dxz	Ryd(3d)	0.00052	2.37956
149	C	8	dxz	Ryd(3d)	0.00068	2.36251
150	C	8	dyz	Ryd(3d)	0.00054	2.25321
151	C	8	dx2y2	Ryd(3d)	0.00038	1.98804
152	C	8	dz2	Ryd(3d)	0.00063	2.50045
153	N	9	S	Cor(1S)	1.99944	-13.85291
154	N	9	S	Val(2S)	1.19090	-0.50288
155	N	9	S	Ryd(3S)	0.00124	1.33090
156	N	9	S	Ryd(4S)	0.00009	3.63900
157	N	9	S	Ryd(5S)	0.00000	30.09029
158	N	9	px	Val(2p)	1.34040	-0.22618
159	N	9	px	Ryd(3p)	0.00456	1.06628
160	N	9	px	Ryd(4p)	0.00017	2.51149
161	N	9	py	Val(2p)	1.29241	-0.23003
162	N	9	py	Ryd(3p)	0.00380	1.02328
163	N	9	py	Ryd(4p)	0.00022	2.56696
164	N	9	pz	Val(2p)	1.49693	-0.22348
165	N	9	pz	Ryd(3p)	0.00518	0.81343
166	N	9	pz	Ryd(4p)	0.00027	2.45311
167	N	9	dxz	Ryd(3d)	0.00081	2.68806
168	N	9	dxz	Ryd(3d)	0.00078	2.66768
169	N	9	dyz	Ryd(3d)	0.00075	2.50630
170	N	9	dx2y2	Ryd(3d)	0.00119	2.80409
171	N	9	dz2	Ryd(3d)	0.00057	2.59928
172	C	10	S	Cor(1S)	1.99868	-9.79306
173	C	10	S	Val(2S)	0.95163	-0.19674
174	C	10	S	Ryd(3S)	0.00282	1.54460
175	C	10	S	Ryd(4S)	0.00073	2.80549
176	C	10	S	Ryd(5S)	0.00001	20.18526
177	C	10	px	Val(2p)	1.02803	-0.07571
178	C	10	px	Ryd(4p)	0.00432	1.58590
179	C	10	px	Ryd(3p)	0.00112	1.48309
180	C	10	py	Val(2p)	0.88955	-0.04976
181	C	10	py	Ryd(3p)	0.00386	1.41902
182	C	10	py	Ryd(4p)	0.00131	1.47925
183	C	10	pz	Val(2p)	0.98089	-0.09841
184	C	10	pz	Ryd(3p)	0.00241	1.06237
185	C	10	pz	Ryd(4p)	0.00097	1.23892

186	C	10	dxy	Ryd(3d)	0.00063	2.50486
187	C	10	dxz	Ryd(3d)	0.00094	2.34896
188	C	10	dyz	Ryd(3d)	0.00080	2.05758
189	C	10	dx2y2	Ryd(3d)	0.00092	2.65358
190	C	10	dz2	Ryd(3d)	0.00066	2.25771
191	N	11	S	Cor(1S)	1.99943	-13.85452
192	N	11	S	Val(2S)	1.19030	-0.50308
193	N	11	S	Ryd(3S)	0.00128	0.91407
194	N	11	S	Ryd(4S)	0.00017	3.70645
195	N	11	S	Ryd(5S)	0.00000	30.34846
196	N	11	px	Val(2p)	1.33065	-0.22940
197	N	11	px	Ryd(3p)	0.00394	0.86395
198	N	11	px	Ryd(4p)	0.00015	2.48451
199	N	11	py	Val(2p)	1.27252	-0.22607
200	N	11	py	Ryd(3p)	0.00405	1.24960
201	N	11	py	Ryd(4p)	0.00024	2.65908
202	N	11	pz	Val(2p)	1.52689	-0.22548
203	N	11	pz	Ryd(3p)	0.00567	0.79387
204	N	11	pz	Ryd(4p)	0.00029	2.42763
205	N	11	dxy	Ryd(3d)	0.00110	2.85011
206	N	11	dxz	Ryd(3d)	0.00075	2.58149
207	N	11	dyz	Ryd(3d)	0.00063	2.50053
208	N	11	dx2y2	Ryd(3d)	0.00102	2.72328
209	N	11	dz2	Ryd(3d)	0.00065	2.58654
210	C	12	S	Cor(1S)	1.99902	-9.77380
211	C	12	S	Val(2S)	0.95156	-0.21206
212	C	12	S	Ryd(3S)	0.00127	1.08253
213	C	12	S	Ryd(4S)	0.00014	1.61045
214	C	12	S	Ryd(5S)	0.00001	21.53830
215	C	12	px	Val(2p)	1.11012	-0.07357
216	C	12	px	Ryd(3p)	0.00280	0.95340
217	C	12	px	Ryd(4p)	0.00073	1.48401
218	C	12	py	Val(2p)	0.91067	-0.07292
219	C	12	py	Ryd(3p)	0.00324	0.79780
220	C	12	py	Ryd(4p)	0.00074	1.43178
221	C	12	pz	Val(2p)	1.11138	-0.11675
222	C	12	pz	Ryd(3p)	0.00357	0.69544
223	C	12	pz	Ryd(4p)	0.00062	1.48102
224	C	12	dxy	Ryd(3d)	0.00078	2.68601
225	C	12	dxz	Ryd(3d)	0.00067	2.27755
226	C	12	dyz	Ryd(3d)	0.00097	2.13923
227	C	12	dx2y2	Ryd(3d)	0.00066	2.42726
228	C	12	dz2	Ryd(3d)	0.00052	2.21107
229	C	13	S	Cor(1S)	1.99902	-9.77360
230	C	13	S	Val(2S)	0.95045	-0.21104
231	C	13	S	Ryd(3S)	0.00126	1.07320
232	C	13	S	Ryd(4S)	0.00016	1.61680
233	C	13	S	Ryd(5S)	0.00001	21.53710
234	C	13	px	Val(2p)	0.90599	-0.07543
235	C	13	px	Ryd(3p)	0.00325	0.69990
236	C	13	px	Ryd(4p)	0.00068	1.39481
237	C	13	py	Val(2p)	1.17333	-0.06988
238	C	13	py	Ryd(3p)	0.00270	1.13719
239	C	13	py	Ryd(4p)	0.00079	1.58519
240	C	13	pz	Val(2p)	1.05485	-0.11765
241	C	13	pz	Ryd(3p)	0.00376	0.60073
242	C	13	pz	Ryd(4p)	0.00059	1.37186
243	C	13	dxy	Ryd(3d)	0.00064	2.53516
244	C	13	dxz	Ryd(3d)	0.00066	2.24298
245	C	13	dyz	Ryd(3d)	0.00060	2.15571
246	C	13	dx2y2	Ryd(3d)	0.00082	2.54005
247	C	13	dz2	Ryd(3d)	0.00077	2.18771
248	B	14	S	Cor(1S)	1.99770	-6.32115
249	B	14	S	Val(2S)	0.66358	0.05761
250	B	14	S	Ryd(3S)	0.00103	1.15216
251	B	14	S	Ryd(5S)	0.00046	8.65844
252	B	14	S	Ryd(4S)	0.00008	4.41273

253	B	14	px	Val(2p)	0.70960	0.13565
254	B	14	px	Ryd(3p)	0.00234	1.42385
255	B	14	px	Ryd(4p)	0.00119	1.56779
256	B	14	py	Val(2p)	0.66899	0.06300
257	B	14	py	Ryd(3p)	0.00127	0.93492
258	B	14	py	Ryd(4p)	0.00096	1.39166
259	B	14	pz	Val(2p)	0.88573	0.06457
260	B	14	pz	Ryd(3p)	0.00102	0.85270
261	B	14	pz	Ryd(4p)	0.00075	1.17255
262	B	14	dxy	Ryd(3d)	0.00071	2.07507
263	B	14	dxz	Ryd(3d)	0.00052	1.94055
264	B	14	dyz	Ryd(3d)	0.00056	1.47745
265	B	14	dx2y2	Ryd(3d)	0.00051	1.96939
266	B	14	dz2	Ryd(3d)	0.00064	1.72449
267	B	15	S	Cor(1S)	1.99698	-6.31152
268	B	15	S	Val(2S)	0.61819	0.10571
269	B	15	S	Ryd(3S)	0.00190	1.46089
270	B	15	S	Ryd(5S)	0.00047	7.59804
271	B	15	S	Ryd(4S)	0.00009	4.48440
272	B	15	px	Val(2p)	0.92413	0.09840
273	B	15	px	Ryd(3p)	0.00206	1.31720
274	B	15	px	Ryd(4p)	0.00130	1.48355
275	B	15	py	Val(2p)	0.76253	0.05368
276	B	15	py	Ryd(3p)	0.00155	0.86909
277	B	15	py	Ryd(4p)	0.00107	1.26480
278	B	15	pz	Val(2p)	0.84537	0.08837
279	B	15	pz	Ryd(3p)	0.00137	0.84774
280	B	15	pz	Ryd(4p)	0.00159	1.22861
281	B	15	dxy	Ryd(3d)	0.00032	1.95680
282	B	15	dxz	Ryd(3d)	0.00099	1.88291
283	B	15	dyz	Ryd(3d)	0.00057	1.76842
284	B	15	dx2y2	Ryd(3d)	0.00038	1.83587
285	B	15	dz2	Ryd(3d)	0.00056	1.94121
286	C	16	S	Cor(1S)	1.99875	-9.80721
287	C	16	S	Val(2S)	0.94763	-0.20470
288	C	16	S	Ryd(3S)	0.00328	1.57805
289	C	16	S	Ryd(4S)	0.00072	2.41066
290	C	16	S	Ryd(5S)	0.00001	20.13267
291	C	16	px	Val(2p)	0.96761	-0.06493
292	C	16	px	Ryd(4p)	0.00472	1.55252
293	C	16	px	Ryd(3p)	0.00138	1.43777
294	C	16	py	Val(2p)	0.96919	-0.09678
295	C	16	py	Ryd(4p)	0.00378	1.30532
296	C	16	py	Ryd(3p)	0.00098	1.28170
297	C	16	pz	Val(2p)	0.87817	-0.08117
298	C	16	pz	Ryd(3p)	0.00275	1.33929
299	C	16	pz	Ryd(4p)	0.00100	1.34000
300	C	16	dxy	Ryd(3d)	0.00067	2.22767
301	C	16	dxz	Ryd(3d)	0.00073	2.34673
302	C	16	dyz	Ryd(3d)	0.00062	2.55394
303	C	16	dx2y2	Ryd(3d)	0.00097	2.49251
304	C	16	dz2	Ryd(3d)	0.00098	2.13978
305	N	17	S	Cor(1S)	1.99942	-13.87230
306	N	17	S	Val(2S)	1.19577	-0.52154
307	N	17	S	Ryd(3S)	0.00148	0.92646
308	N	17	S	Ryd(4S)	0.00016	3.65502
309	N	17	S	Ryd(5S)	0.00000	30.34483
310	N	17	px	Val(2p)	1.29928	-0.24889
311	N	17	px	Ryd(3p)	0.00339	0.91215
312	N	17	px	Ryd(4p)	0.00018	2.53624
313	N	17	py	Val(2p)	1.39483	-0.24394
314	N	17	py	Ryd(3p)	0.00403	0.90304
315	N	17	py	Ryd(4p)	0.00021	2.50798
316	N	17	pz	Val(2p)	1.40171	-0.24450
317	N	17	pz	Ryd(3p)	0.00504	1.07403
318	N	17	pz	Ryd(4p)	0.00023	2.49052
319	N	17	dxy	Ryd(3d)	0.00082	2.59847
320	N	17	dxz	Ryd(3d)	0.00101	2.66011

321	N	17	dyz	Ryd(3d)	0.00081	2.80839
322	N	17	dx2y2	Ryd(3d)	0.00098	2.63634
323	N	17	dz2	Ryd(3d)	0.00065	2.48261
324	C	18	S	Cor(1S)	1.99904	-9.79245
325	C	18	S	Val(2S)	0.95409	-0.23008
326	C	18	S	Ryd(3S)	0.00122	1.09116
327	C	18	S	Ryd(4S)	0.00011	1.60526
328	C	18	S	Ryd(5S)	0.00001	21.50224
329	C	18	px	Val(2p)	1.14897	-0.08476
330	C	18	px	Ryd(3p)	0.00277	1.09505
331	C	18	px	Ryd(4p)	0.00077	1.46354
332	C	18	py	Val(2p)	0.96898	-0.11633
333	C	18	py	Ryd(3p)	0.00326	0.66051
334	C	18	py	Ryd(4p)	0.00064	1.32261
335	C	18	pz	Val(2p)	0.99460	-0.11442
336	C	18	pz	Ryd(3p)	0.00327	0.73971
337	C	18	pz	Ryd(4p)	0.00060	1.42469
338	C	18	dxz	Ryd(3d)	0.00066	2.38572
339	C	18	dxz	Ryd(3d)	0.00072	2.43996
340	C	18	dyz	Ryd(3d)	0.00051	2.42981
341	C	18	dx2y2	Ryd(3d)	0.00077	2.32009
342	C	18	dz2	Ryd(3d)	0.00087	2.06880
343	C	19	S	Cor(1S)	1.99904	-9.79308
344	C	19	S	Val(2S)	0.95531	-0.23143
345	C	19	S	Ryd(3S)	0.00119	1.11105
346	C	19	S	Ryd(4S)	0.00012	1.50559
347	C	19	S	Ryd(5S)	0.00001	21.48954
348	C	19	px	Val(2p)	0.87998	-0.08878
349	C	19	px	Ryd(3p)	0.00328	0.76182
350	C	19	px	Ryd(4p)	0.00069	1.32020
351	C	19	py	Val(2p)	1.10713	-0.11529
352	C	19	py	Ryd(3p)	0.00311	0.79488
353	C	19	py	Ryd(4p)	0.00079	1.34538
354	C	19	pz	Val(2p)	1.13364	-0.11509
355	C	19	pz	Ryd(3p)	0.00296	0.88114
356	C	19	pz	Ryd(4p)	0.00048	1.39859
357	C	19	dxz	Ryd(3d)	0.00079	2.38227
358	C	19	dxz	Ryd(3d)	0.00073	2.33511
359	C	19	dyz	Ryd(3d)	0.00064	2.46204
360	C	19	dx2y2	Ryd(3d)	0.00068	2.30207
361	C	19	dz2	Ryd(3d)	0.00063	2.15099
362	N	20	S	Cor(1S)	1.99942	-13.87362
363	N	20	S	Val(2S)	1.19344	-0.52341
364	N	20	S	Ryd(3S)	0.00137	0.93045
365	N	20	S	Ryd(4S)	0.00019	3.64246
366	N	20	S	Ryd(5S)	0.00000	30.34529
367	N	20	px	Val(2p)	1.29133	-0.24620
368	N	20	px	Ryd(3p)	0.00418	1.17239
369	N	20	px	Ryd(4p)	0.00019	2.60157
370	N	20	py	Val(2p)	1.42362	-0.24903
371	N	20	py	Ryd(3p)	0.00425	0.79774
372	N	20	py	Ryd(4p)	0.00023	2.44904
373	N	20	pz	Val(2p)	1.38809	-0.24958
374	N	20	pz	Ryd(3p)	0.00443	0.91796
375	N	20	pz	Ryd(4p)	0.00023	2.47273
376	N	20	dxz	Ryd(3d)	0.00081	2.60590
377	N	20	dxz	Ryd(3d)	0.00090	2.67443
378	N	20	dyz	Ryd(3d)	0.00080	2.79023
379	N	20	dx2y2	Ryd(3d)	0.00097	2.62359
380	N	20	dz2	Ryd(3d)	0.00078	2.47804
381	C	21	S	Cor(1S)	1.99873	-9.77771
382	C	21	S	Val(2S)	0.86755	-0.17742
383	C	21	S	Ryd(3S)	0.00123	1.05486
384	C	21	S	Ryd(4S)	0.00070	1.97609
385	C	21	S	Ryd(5S)	0.00000	21.10750
386	C	21	px	Val(2p)	1.03099	-0.09792
387	C	21	px	Ryd(3p)	0.00428	0.77589

388	C	21	px	Ryd(4p)	0.00056	1.65505
389	C	21	py	Val(2p)	0.99577	-0.06910
390	C	21	py	Ryd(3p)	0.00357	0.88429
391	C	21	py	Ryd(4p)	0.00066	1.67757
392	C	21	pz	Val(2p)	0.97205	-0.05564
393	C	21	pz	Ryd(3p)	0.00427	0.97499
394	C	21	pz	Ryd(4p)	0.00080	1.75403
395	C	21	dxxy	Ryd(3d)	0.00064	2.42319
396	C	21	dxz	Ryd(3d)	0.00073	2.20192
397	C	21	dyz	Ryd(3d)	0.00097	2.56261
398	C	21	dx2y2	Ryd(3d)	0.00056	2.14439
399	C	21	dz2	Ryd(3d)	0.00088	2.57975
400	C	22	S	Cor(1S)	1.99897	-9.73706
401	C	22	S	Val(2S)	0.92100	-0.18700
402	C	22	S	Ryd(3S)	0.00226	0.88465
403	C	22	S	Ryd(4S)	0.00041	2.01434
404	C	22	S	Ryd(5S)	0.00000	21.04343
405	C	22	px	Val(2p)	0.97799	-0.08051
406	C	22	px	Ryd(3p)	0.00365	0.75667
407	C	22	px	Ryd(4p)	0.00034	1.51710
408	C	22	py	Val(2p)	1.01455	-0.05227
409	C	22	py	Ryd(3p)	0.00484	1.02652
410	C	22	py	Ryd(4p)	0.00041	1.64687
411	C	22	pz	Val(2p)	1.03466	-0.04147
412	C	22	pz	Ryd(3p)	0.00365	0.92297
413	C	22	pz	Ryd(4p)	0.00062	1.65553
414	C	22	dxxy	Ryd(3d)	0.00054	2.35681
415	C	22	dxz	Ryd(3d)	0.00068	2.15133
416	C	22	dyz	Ryd(3d)	0.00072	2.46950
417	C	22	dx2y2	Ryd(3d)	0.00060	2.11023
418	C	22	dz2	Ryd(3d)	0.00081	2.55471
419	C	23	S	Cor(1S)	1.99909	-9.72332
420	C	23	S	Val(2S)	0.97332	-0.19771
421	C	23	S	Ryd(4S)	0.00104	1.40069
422	C	23	S	Ryd(3S)	0.00011	1.33878
423	C	23	S	Ryd(5S)	0.00000	21.29412
424	C	23	px	Val(2p)	1.01172	-0.08428
425	C	23	px	Ryd(3p)	0.00158	0.80871
426	C	23	px	Ryd(4p)	0.00052	1.21252
427	C	23	py	Val(2p)	1.04526	-0.05963
428	C	23	py	Ryd(3p)	0.00224	1.01377
429	C	23	py	Ryd(4p)	0.00040	1.29389
430	C	23	pz	Val(2p)	1.16588	-0.04797
431	C	23	pz	Ryd(4p)	0.00384	1.19624
432	C	23	pz	Ryd(3p)	0.00056	1.12107
433	C	23	dxxy	Ryd(3d)	0.00054	2.37920
434	C	23	dxz	Ryd(3d)	0.00045	2.13006
435	C	23	dyz	Ryd(3d)	0.00071	2.40011
436	C	23	dx2y2	Ryd(3d)	0.00043	2.04986
437	C	23	dz2	Ryd(3d)	0.00065	2.52376
438	C	24	S	Cor(1S)	1.99920	-9.72885
439	C	24	S	Val(2S)	0.97700	-0.20429
440	C	24	S	Ryd(3S)	0.00081	1.06154
441	C	24	S	Ryd(4S)	0.00008	1.40826
442	C	24	S	Ryd(5S)	0.00000	21.18474
443	C	24	px	Val(2p)	1.03209	-0.08899
444	C	24	px	Ryd(3p)	0.00190	0.78444
445	C	24	px	Ryd(4p)	0.00032	1.28123
446	C	24	py	Val(2p)	1.07097	-0.06127
447	C	24	py	Ryd(3p)	0.00306	0.93377
448	C	24	py	Ryd(4p)	0.00033	1.31110
449	C	24	pz	Val(2p)	1.10083	-0.04643
450	C	24	pz	Ryd(3p)	0.00359	1.03122
451	C	24	pz	Ryd(4p)	0.00036	1.40022
452	C	24	dxxy	Ryd(3d)	0.00052	2.33358
453	C	24	dxz	Ryd(3d)	0.00045	2.11146
454	C	24	dyz	Ryd(3d)	0.00065	2.40941
455	C	24	dx2y2	Ryd(3d)	0.00037	2.01261

456	C	24	dz2	Ryd(3d)	0.00082	2.52735
457	C	25	S	Cor(1S)	1.99909	-9.72677
458	C	25	S	Val(2S)	0.97228	-0.20182
459	C	25	S	Ryd(4S)	0.00095	1.40740
460	C	25	S	Ryd(3S)	0.00009	1.37567
461	C	25	S	Ryd(5S)	0.00000	21.26183
462	C	25	px	Val(2p)	1.05229	-0.09064
463	C	25	px	Ryd(3p)	0.00194	0.81739
464	C	25	px	Ryd(4p)	0.00056	1.15943
465	C	25	py	Val(2p)	1.12391	-0.06603
466	C	25	py	Ryd(3p)	0.00308	1.06448
467	C	25	py	Ryd(4p)	0.00050	1.16004
468	C	25	pz	Val(2p)	1.06008	-0.04882
469	C	25	pz	Ryd(3p)	0.00248	1.10684
470	C	25	pz	Ryd(4p)	0.00023	1.40356
471	C	25	dxy	Ryd(3d)	0.00048	2.32776
472	C	25	dxz	Ryd(3d)	0.00052	2.15430
473	C	25	dyz	Ryd(3d)	0.00072	2.41203
474	C	25	dx2y2	Ryd(3d)	0.00036	1.99865
475	C	25	dz2	Ryd(3d)	0.00068	2.57914
476	C	26	S	Cor(1S)	1.99898	-9.73994
477	C	26	S	Val(2S)	0.92193	-0.19298
478	C	26	S	Ryd(3S)	0.00168	0.96538
479	C	26	S	Ryd(4S)	0.00044	1.97754
480	C	26	S	Ryd(5S)	0.00000	21.18931
481	C	26	px	Val(2p)	1.00072	-0.08746
482	C	26	px	Ryd(3p)	0.00291	0.77586
483	C	26	px	Ryd(4p)	0.00027	1.45872
484	C	26	py	Val(2p)	1.02484	-0.06358
485	C	26	py	Ryd(3p)	0.00333	0.95374
486	C	26	py	Ryd(4p)	0.00047	1.55877
487	C	26	pz	Val(2p)	1.03289	-0.04442
488	C	26	pz	Ryd(3p)	0.00427	1.24672
489	C	26	pz	Ryd(4p)	0.00034	1.63913
490	C	26	dxy	Ryd(3d)	0.00061	2.40730
491	C	26	dxz	Ryd(3d)	0.00070	2.18238
492	C	26	dyz	Ryd(3d)	0.00075	2.47050
493	C	26	dx2y2	Ryd(3d)	0.00059	2.05581
494	C	26	dz2	Ryd(3d)	0.00067	2.46060
495	C	27	S	Cor(1S)	1.99936	-9.74225
496	C	27	S	Val(2S)	0.99682	-0.24649
497	C	27	S	Ryd(3S)	0.00147	1.18250
498	C	27	S	Ryd(4S)	0.00031	2.05089
499	C	27	S	Ryd(5S)	0.00001	20.97416
500	C	27	px	Val(2p)	1.10685	-0.07911
501	C	27	px	Ryd(3p)	0.00179	0.83743
502	C	27	px	Ryd(4p)	0.00036	1.43637
503	C	27	py	Val(2p)	1.02677	-0.07600
504	C	27	py	Ryd(3p)	0.00164	0.79534
505	C	27	py	Ryd(4p)	0.00053	1.42394
506	C	27	pz	Val(2p)	1.10935	-0.08034
507	C	27	pz	Ryd(3p)	0.00276	1.00954
508	C	27	pz	Ryd(4p)	0.00038	1.47703
509	C	27	dxy	Ryd(3d)	0.00082	2.49907
510	C	27	dxz	Ryd(3d)	0.00094	2.49227
511	C	27	dyz	Ryd(3d)	0.00051	2.23162
512	C	27	dx2y2	Ryd(3d)	0.00062	2.22601
513	C	27	dz2	Ryd(3d)	0.00066	2.41215
514	C	28	S	Cor(1S)	1.99941	-9.72951
515	C	28	S	Val(2S)	1.11723	-0.27656
516	C	28	S	Ryd(3S)	0.00058	1.19713
517	C	28	S	Ryd(4S)	0.00016	2.43073
518	C	28	S	Ryd(5S)	0.00000	20.59618
519	C	28	px	Val(2p)	1.15205	-0.08329
520	C	28	px	Ryd(3p)	0.00060	0.55276
521	C	28	px	Ryd(4p)	0.00032	1.52696
522	C	28	py	Val(2p)	1.12394	-0.08677

523	C	28	py	Ryd(3p)	0.00055	0.55910
524	C	28	py	Ryd(4p)	0.00048	1.47266
525	C	28	pz	Val(2p)	1.21451	-0.08399
526	C	28	pz	Ryd(3p)	0.00107	0.54223
527	C	28	pz	Ryd(4p)	0.00006	1.50317
528	C	28	dxy	Ryd(3d)	0.00064	2.47876
529	C	28	dxz	Ryd(3d)	0.00074	2.44375
530	C	28	dyz	Ryd(3d)	0.00025	2.15267
531	C	28	dx2y2	Ryd(3d)	0.00053	2.23459
532	C	28	dz2	Ryd(3d)	0.00055	2.38674
533	C	29	S	Cor(1S)	1.99937	-9.75206
534	C	29	S	Val(2S)	0.99666	-0.25611
535	C	29	S	Ryd(4S)	0.00118	1.71925
536	C	29	S	Ryd(3S)	0.00005	1.64589
537	C	29	S	Ryd(5S)	0.00000	21.20778
538	C	29	px	Val(2p)	1.06603	-0.08945
539	C	29	px	Ryd(3p)	0.00178	0.95523
540	C	29	px	Ryd(4p)	0.00039	1.42277
541	C	29	py	Val(2p)	1.10882	-0.09020
542	C	29	py	Ryd(3p)	0.00240	1.02511
543	C	29	py	Ryd(4p)	0.00029	1.35859
544	C	29	pz	Val(2p)	1.06596	-0.08593
545	C	29	pz	Ryd(3p)	0.00153	0.85610
546	C	29	pz	Ryd(4p)	0.00043	1.28745
547	C	29	dxy	Ryd(3d)	0.00071	2.36723
548	C	29	dxz	Ryd(3d)	0.00062	2.22988
549	C	29	dyz	Ryd(3d)	0.00077	2.34713
550	C	29	dx2y2	Ryd(3d)	0.00062	2.31506
551	C	29	dz2	Ryd(3d)	0.00078	2.51690
552	C	30	S	Cor(1S)	1.99942	-9.73526
553	C	30	S	Val(2S)	1.11595	-0.28296
554	C	30	S	Ryd(3S)	0.00058	1.05897
555	C	30	S	Ryd(4S)	0.00013	2.70815
556	C	30	S	Ryd(5S)	0.00000	20.32400
557	C	30	px	Val(2p)	1.07853	-0.09009
558	C	30	px	Ryd(3p)	0.00051	0.49738
559	C	30	px	Ryd(4p)	0.00055	1.44621
560	C	30	py	Val(2p)	1.21864	-0.09112
561	C	30	py	Ryd(3p)	0.00122	0.54366
562	C	30	py	Ryd(4p)	0.00004	1.48711
563	C	30	pz	Val(2p)	1.19711	-0.09233
564	C	30	pz	Ryd(3p)	0.00085	0.57101
565	C	30	pz	Ryd(4p)	0.00019	1.53517
566	C	30	dxy	Ryd(3d)	0.00076	2.38533
567	C	30	dxz	Ryd(3d)	0.00044	2.24749
568	C	30	dyz	Ryd(3d)	0.00027	2.21938
569	C	30	dx2y2	Ryd(3d)	0.00047	2.32363
570	C	30	dz2	Ryd(3d)	0.00071	2.46056
571	C	31	S	Cor(1S)	1.99874	-9.78499
572	C	31	S	Val(2S)	0.86698	-0.18374
573	C	31	S	Ryd(3S)	0.00118	0.96312
574	C	31	S	Ryd(4S)	0.00067	1.83273
575	C	31	S	Ryd(5S)	0.00000	21.56138
576	C	31	px	Val(2p)	0.93627	-0.07394
577	C	31	px	Ryd(3p)	0.00435	1.02588
578	C	31	px	Ryd(4p)	0.00071	1.67581
579	C	31	py	Val(2p)	1.06601	-0.09663
580	C	31	py	Ryd(3p)	0.00304	0.74573
581	C	31	py	Ryd(4p)	0.00043	1.61968
582	C	31	pz	Val(2p)	0.99331	-0.07441
583	C	31	pz	Ryd(3p)	0.00401	0.94722
584	C	31	pz	Ryd(4p)	0.00062	1.67278
585	C	31	dxy	Ryd(3d)	0.00067	2.45194
586	C	31	dxz	Ryd(3d)	0.00093	2.47741
587	C	31	dyz	Ryd(3d)	0.00071	2.41789
588	C	31	dx2y2	Ryd(3d)	0.00069	2.18296
589	C	31	dz2	Ryd(3d)	0.00077	2.33110

590	C	32	S	Cor(1S)	1.99898	-9.74810
591	C	32	S	Val(2S)	0.92384	-0.20127
592	C	32	S	Ryd(3S)	0.00167	0.91634
593	C	32	S	Ryd(4S)	0.00046	1.92102
594	C	32	S	Ryd(5S)	0.00000	21.08749
595	C	32	px	Val(2p)	1.02499	-0.06910
596	C	32	px	Ryd(3p)	0.00302	1.01211
597	C	32	px	Ryd(4p)	0.00040	1.48412
598	C	32	py	Val(2p)	0.99497	-0.08233
599	C	32	py	Ryd(3p)	0.00395	0.96976
600	C	32	py	Ryd(4p)	0.00026	1.47739
601	C	32	pz	Val(2p)	1.02810	-0.06469
602	C	32	pz	Ryd(3p)	0.00329	0.95864
603	C	32	pz	Ryd(4p)	0.00043	1.52051
604	C	32	dxy	Ryd(3d)	0.00052	2.33017
605	C	32	dxz	Ryd(3d)	0.00074	2.40795
606	C	32	dyz	Ryd(3d)	0.00063	2.40188
607	C	32	dx2y2	Ryd(3d)	0.00068	2.11757
608	C	32	dz2	Ryd(3d)	0.00074	2.27647
609	C	33	S	Cor(1S)	1.99910	-9.73591
610	C	33	S	Val(2S)	0.97357	-0.21131
611	C	33	S	Ryd(3S)	0.00097	1.38310
612	C	33	S	Ryd(4S)	0.00009	1.41500
613	C	33	S	Ryd(5S)	0.00000	21.22051
614	C	33	px	Val(2p)	1.03872	-0.07369
615	C	33	px	Ryd(3p)	0.00200	0.91960
616	C	33	px	Ryd(4p)	0.00041	1.27637
617	C	33	py	Val(2p)	1.05948	-0.08727
618	C	33	py	Ryd(3p)	0.00214	0.94620
619	C	33	py	Ryd(4p)	0.00046	1.28409
620	C	33	pz	Val(2p)	1.13523	-0.07099
621	C	33	pz	Ryd(3p)	0.00334	1.08613
622	C	33	pz	Ryd(4p)	0.00053	1.13493
623	C	33	dxy	Ryd(3d)	0.00058	2.39697
624	C	33	dxz	Ryd(3d)	0.00062	2.41235
625	C	33	dyz	Ryd(3d)	0.00057	2.26744
626	C	33	dx2y2	Ryd(3d)	0.00050	2.08573
627	C	33	dz2	Ryd(3d)	0.00051	2.25431
628	C	34	S	Cor(1S)	1.99920	-9.73939
629	C	34	S	Val(2S)	0.97772	-0.21491
630	C	34	S	Ryd(3S)	0.00082	1.05448
631	C	34	S	Ryd(4S)	0.00009	1.51899
632	C	34	S	Ryd(5S)	0.00000	21.16532
633	C	34	px	Val(2p)	1.10319	-0.07500
634	C	34	px	Ryd(3p)	0.00324	1.00133
635	C	34	px	Ryd(4p)	0.00025	1.54675
636	C	34	py	Val(2p)	1.02219	-0.08488
637	C	34	py	Ryd(3p)	0.00220	0.80375
638	C	34	py	Ryd(4p)	0.00024	1.16134
639	C	34	pz	Val(2p)	1.08072	-0.06856
640	C	34	pz	Ryd(3p)	0.00323	0.94991
641	C	34	pz	Ryd(4p)	0.00036	1.34029
642	C	34	dxy	Ryd(3d)	0.00059	2.36671
643	C	34	dxz	Ryd(3d)	0.00057	2.34048
644	C	34	dyz	Ryd(3d)	0.00060	2.34841
645	C	34	dx2y2	Ryd(3d)	0.00042	2.04093
646	C	34	dz2	Ryd(3d)	0.00064	2.24440
647	C	35	S	Cor(1S)	1.99909	-9.73496
648	C	35	S	Val(2S)	0.97404	-0.21028
649	C	35	S	Ryd(3S)	0.00098	1.40619
650	C	35	S	Ryd(4S)	0.00009	1.44430
651	C	35	S	Ryd(5S)	0.00000	21.26986
652	C	35	px	Val(2p)	1.09279	-0.07477
653	C	35	px	Ryd(3p)	0.00279	0.98350
654	C	35	px	Ryd(4p)	0.00038	1.21629
655	C	35	py	Val(2p)	1.09130	-0.08663
656	C	35	py	Ryd(3p)	0.00262	0.98917
657	C	35	py	Ryd(4p)	0.00043	1.24389

658	C	35	pz	Val (2p)	1.04813	-0.06716
659	C	35	pz	Ryd(3p)	0.00219	1.00746
660	C	35	pz	Ryd(4p)	0.00032	1.39364
661	C	35	dx _y	Ryd(3d)	0.00056	2.34718
662	C	35	dx _z	Ryd(3d)	0.00067	2.40867
663	C	35	dy _z	Ryd(3d)	0.00057	2.32347
664	C	35	dx ² y ²	Ryd(3d)	0.00041	2.05923
665	C	35	dz ²	Ryd(3d)	0.00058	2.28590
666	C	36	S	Cor(1S)	1.99898	-9.74600
667	C	36	S	Val(2S)	0.92317	-0.19849
668	C	36	S	Ryd(3S)	0.00166	0.89962
669	C	36	S	Ryd(4S)	0.00046	1.93233
670	C	36	S	Ryd(5S)	0.00000	21.14677
671	C	36	px	Val(2p)	1.02297	-0.07009
672	C	36	px	Ryd(3p)	0.00274	0.90945
673	C	36	px	Ryd(4p)	0.00043	1.54107
674	C	36	py	Val(2p)	0.99698	-0.07820
675	C	36	py	Ryd(3p)	0.00366	0.92995
676	C	36	py	Ryd(4p)	0.00031	1.53216
677	C	36	pz	Val(2p)	1.02035	-0.06062
678	C	36	pz	Ryd(3p)	0.00404	1.13364
679	C	36	pz	Ryd(4p)	0.00030	1.53426
680	C	36	dx _y	Ryd(3d)	0.00063	2.43532
681	C	36	dx _z	Ryd(3d)	0.00085	2.41863
682	C	36	dy _z	Ryd(3d)	0.00056	2.36572
683	C	36	dx ² y ²	Ryd(3d)	0.00065	2.09176
684	C	36	dz ²	Ryd(3d)	0.00067	2.23569
685	C	37	S	Cor(1S)	1.99937	-9.75573
686	C	37	S	Val(2S)	0.99683	-0.26043
687	C	37	S	Ryd(4S)	0.00118	1.70859
688	C	37	S	Ryd(3S)	0.00006	1.57394
689	C	37	S	Ryd(5S)	0.00000	21.16555
690	C	37	px	Val(2p)	1.11426	-0.09275
691	C	37	px	Ryd(3p)	0.00214	0.88810
692	C	37	px	Ryd(4p)	0.00038	1.32289
693	C	37	py	Val(2p)	1.03655	-0.09163
694	C	37	py	Ryd(3p)	0.00112	0.89406
695	C	37	py	Ryd(4p)	0.00042	1.33184
696	C	37	pz	Val(2p)	1.09213	-0.09363
697	C	37	pz	Ryd(3p)	0.00234	1.04974
698	C	37	pz	Ryd(4p)	0.00034	1.43766
699	C	37	dx _y	Ryd(3d)	0.00075	2.44324
700	C	37	dx _z	Ryd(3d)	0.00095	2.48589
701	C	37	dy _z	Ryd(3d)	0.00047	2.17499
702	C	37	dx ² y ²	Ryd(3d)	0.00068	2.25930
703	C	37	dz ²	Ryd(3d)	0.00062	2.38633
704	C	38	S	Cor(1S)	1.99943	-9.73821
705	C	38	S	Val(2S)	1.11477	-0.28570
706	C	38	S	Ryd(3S)	0.00056	1.10431
707	C	38	S	Ryd(4S)	0.00012	2.69113
708	C	38	S	Ryd(5S)	0.00000	20.31072
709	C	38	px	Val(2p)	1.19793	-0.09728
710	C	38	px	Ryd(3p)	0.00082	0.52789
711	C	38	px	Ryd(4p)	0.00019	1.52250
712	C	38	py	Val(2p)	1.21569	-0.09314
713	C	38	py	Ryd(3p)	0.00146	0.57925
714	C	38	py	Ryd(4p)	0.00004	1.49823
715	C	38	pz	Val(2p)	1.08328	-0.09308
716	C	38	pz	Ryd(3p)	0.00039	0.48831
717	C	38	pz	Ryd(4p)	0.00052	1.45163
718	C	38	dx _y	Ryd(3d)	0.00060	2.41100
719	C	38	dx _z	Ryd(3d)	0.00079	2.44149
720	C	38	dy _z	Ryd(3d)	0.00028	2.12275
721	C	38	dx ² y ²	Ryd(3d)	0.00031	2.23543
722	C	38	dz ²	Ryd(3d)	0.00066	2.40025
723	C	39	S	Cor(1S)	1.99936	-9.75034
724	C	39	S	Val(2S)	0.99689	-0.25484

725	C	39	S	Ryd(4S)	0.00120	1.71446
726	C	39	S	Ryd(3S)	0.00006	1.65794
727	C	39	S	Ryd(5S)	0.00000	21.21182
728	C	39	px	Val(2p)	1.13377	-0.08945
729	C	39	px	Ryd(3p)	0.00280	0.98747
730	C	39	px	Ryd(4p)	0.00026	1.37338
731	C	39	py	Val(2p)	1.04734	-0.08697
732	C	39	py	Ryd(3p)	0.00156	0.97627
733	C	39	py	Ryd(4p)	0.00042	1.45775
734	C	39	pz	Val(2p)	1.06175	-0.08554
735	C	39	pz	Ryd(3p)	0.00139	0.86066
736	C	39	pz	Ryd(4p)	0.00048	1.29633
737	C	39	dxy	Ryd(3d)	0.00055	2.22916
738	C	39	dxz	Ryd(3d)	0.00077	2.47088
739	C	39	dyz	Ryd(3d)	0.00078	2.39566
740	C	39	dx2y2	Ryd(3d)	0.00073	2.42226
741	C	39	dz2	Ryd(3d)	0.00063	2.27165
742	C	40	S	Cor(1S)	1.99942	-9.73507
743	C	40	S	Val(2S)	1.11676	-0.28274
744	C	40	S	Ryd(3S)	0.00058	1.09141
745	C	40	S	Ryd(4S)	0.00013	2.62677
746	C	40	S	Ryd(5S)	0.00000	20.37731
747	C	40	px	Val(2p)	1.21154	-0.09154
748	C	40	px	Ryd(3p)	0.00103	0.52734
749	C	40	px	Ryd(4p)	0.00009	1.48544
750	C	40	py	Val(2p)	1.06606	-0.09064
751	C	40	py	Ryd(3p)	0.00037	0.50375
752	C	40	py	Ryd(4p)	0.00062	1.44537
753	C	40	pz	Val(2p)	1.21477	-0.08968
754	C	40	pz	Ryd(3p)	0.00099	0.56998
755	C	40	pz	Ryd(4p)	0.00009	1.53712
756	C	40	dxy	Ryd(3d)	0.00048	2.22888
757	C	40	dxz	Ryd(3d)	0.00058	2.41521
758	C	40	dyz	Ryd(3d)	0.00064	2.32092
759	C	40	dx2y2	Ryd(3d)	0.00062	2.41041
760	C	40	dz2	Ryd(3d)	0.00031	2.26524
761	C	41	S	Cor(1S)	1.99874	-9.77446
762	C	41	S	Val(2S)	0.86843	-0.17345
763	C	41	S	Ryd(3S)	0.00122	0.96604
764	C	41	S	Ryd(4S)	0.00066	1.89331
765	C	41	S	Ryd(5S)	0.00000	21.52802
766	C	41	px	Val(2p)	1.04871	-0.09375
767	C	41	px	Ryd(3p)	0.00347	0.78065
768	C	41	px	Ryd(4p)	0.00045	1.63167
769	C	41	py	Val(2p)	0.88299	-0.04944
770	C	41	py	Ryd(3p)	0.00486	1.15418
771	C	41	py	Ryd(4p)	0.00085	1.71252
772	C	41	pz	Val(2p)	1.06475	-0.06910
773	C	41	pz	Ryd(3p)	0.00269	0.80439
774	C	41	pz	Ryd(4p)	0.00045	1.65745
775	C	41	dxy	Ryd(3d)	0.00064	2.37627
776	C	41	dxz	Ryd(3d)	0.00069	2.37323
777	C	41	dyz	Ryd(3d)	0.00097	2.47483
778	C	41	dx2y2	Ryd(3d)	0.00067	2.36785
779	C	41	dz2	Ryd(3d)	0.00087	2.33538
780	C	42	S	Cor(1S)	1.99899	-9.73542
781	C	42	S	Val(2S)	0.92637	-0.18757
782	C	42	S	Ryd(3S)	0.00157	0.92565
783	C	42	S	Ryd(4S)	0.00042	2.00385
784	C	42	S	Ryd(5S)	0.00000	21.18354
785	C	42	px	Val(2p)	0.98361	-0.07637
786	C	42	px	Ryd(3p)	0.00287	0.86919
787	C	42	px	Ryd(4p)	0.00022	1.42247
788	C	42	py	Val(2p)	1.03376	-0.04839
789	C	42	py	Ryd(3p)	0.00309	0.98801
790	C	42	py	Ryd(4p)	0.00049	1.61770
791	C	42	pz	Val(2p)	1.01656	-0.04834
792	C	42	pz	Ryd(3p)	0.00402	1.05397

793	C	42	pz	Ryd(4p)	0.00048	1.54207
794	C	42	dxy	Ryd(3d)	0.00063	2.30461
795	C	42	dxz	Ryd(3d)	0.00059	2.31531
796	C	42	dyz	Ryd(3d)	0.00076	2.43503
797	C	42	dx2y2	Ryd(3d)	0.00061	2.22109
798	C	42	dz2	Ryd(3d)	0.00076	2.35889
799	C	43	S	Cor(1S)	1.99910	-9.72422
800	C	43	S	Val(2S)	0.97460	-0.19998
801	C	43	S	Ryd(4S)	0.00095	1.38719
802	C	43	S	Ryd(3S)	0.00009	1.35718
803	C	43	S	Ryd(5S)	0.00000	21.29913
804	C	43	px	Val(2p)	1.03144	-0.08260
805	C	43	px	Ryd(3p)	0.00167	0.85705
806	C	43	px	Ryd(4p)	0.00046	1.25014
807	C	43	py	Val(2p)	1.06940	-0.05599
808	C	43	py	Ryd(3p)	0.00265	0.94334
809	C	43	py	Ryd(4p)	0.00052	1.21554
810	C	43	pz	Val(2p)	1.13491	-0.05907
811	C	43	pz	Ryd(3p)	0.00340	1.16033
812	C	43	pz	Ryd(4p)	0.00045	1.21641
813	C	43	dxy	Ryd(3d)	0.00057	2.32479
814	C	43	dxz	Ryd(3d)	0.00049	2.27323
815	C	43	dyz	Ryd(3d)	0.00062	2.45037
816	C	43	dx2y2	Ryd(3d)	0.00054	2.18782
817	C	43	dz2	Ryd(3d)	0.00054	2.24141
818	C	44	S	Cor(1S)	1.99919	-9.73043
819	C	44	S	Val(2S)	0.97697	-0.20579
820	C	44	S	Ryd(3S)	0.00078	1.03819
821	C	44	S	Ryd(4S)	0.00009	1.46269
822	C	44	S	Ryd(5S)	0.00000	21.17618
823	C	44	px	Val(2p)	1.02635	-0.08557
824	C	44	px	Ryd(3p)	0.00200	0.77998
825	C	44	px	Ryd(4p)	0.00030	1.22824
826	C	44	py	Val(2p)	1.13898	-0.05998
827	C	44	py	Ryd(3p)	0.00389	1.05373
828	C	44	py	Ryd(4p)	0.00039	1.63782
829	C	44	pz	Val(2p)	1.04297	-0.05741
830	C	44	pz	Ryd(3p)	0.00293	0.87832
831	C	44	pz	Ryd(4p)	0.00029	1.15787
832	C	44	dxy	Ryd(3d)	0.00046	2.25586
833	C	44	dxz	Ryd(3d)	0.00059	2.32161
834	C	44	dyz	Ryd(3d)	0.00073	2.41289
835	C	44	dx2y2	Ryd(3d)	0.00039	2.11101
836	C	44	dz2	Ryd(3d)	0.00064	2.27797
837	C	45	S	Cor(1S)	1.99909	-9.72713
838	C	45	S	Val(2S)	0.97249	-0.20254
839	C	45	S	Ryd(4S)	0.00097	1.39850
840	C	45	S	Ryd(3S)	0.00010	1.37146
841	C	45	S	Ryd(5S)	0.00000	21.24969
842	C	45	px	Val(2p)	1.07482	-0.08723
843	C	45	px	Ryd(3p)	0.00228	0.88105
844	C	45	px	Ryd(4p)	0.00061	1.19289
845	C	45	py	Val(2p)	1.07173	-0.05997
846	C	45	py	Ryd(3p)	0.00265	0.94295
847	C	45	py	Ryd(4p)	0.00049	1.18639
848	C	45	pz	Val(2p)	1.09377	-0.06133
849	C	45	pz	Ryd(3p)	0.00276	1.11724
850	C	45	pz	Ryd(4p)	0.00032	1.36592
851	C	45	dxy	Ryd(3d)	0.00055	2.30409
852	C	45	dxz	Ryd(3d)	0.00053	2.24942
853	C	45	dyz	Ryd(3d)	0.00064	2.46008
854	C	45	dx2y2	Ryd(3d)	0.00049	2.16994
855	C	45	dz2	Ryd(3d)	0.00055	2.27483
856	C	46	S	Cor(1S)	1.99898	-9.73862
857	C	46	S	Val(2S)	0.92411	-0.19225
858	C	46	S	Ryd(3S)	0.00168	0.92561
859	C	46	S	Ryd(4S)	0.00045	1.95497

860	C	46	S	Ryd(5S)	0.00000	21.15552
861	C	46	px	Val(2p)	1.00147	-0.08158
862	C	46	px	Ryd(3p)	0.00315	0.83146
863	C	46	px	Ryd(4p)	0.00029	1.48471
864	C	46	py	Val(2p)	1.03733	-0.05525
865	C	46	py	Ryd(3p)	0.00277	0.98313
866	C	46	py	Ryd(4p)	0.00044	1.53253
867	C	46	pz	Val(2p)	1.01373	-0.05341
868	C	46	pz	Ryd(3p)	0.00460	1.14572
869	C	46	pz	Ryd(4p)	0.00033	1.58237
870	C	46	dxxy	Ryd(3d)	0.00058	2.31783
871	C	46	dxz	Ryd(3d)	0.00064	2.39191
872	C	46	dyz	Ryd(3d)	0.00076	2.40530
873	C	46	dx2y2	Ryd(3d)	0.00063	2.18208
874	C	46	dz2	Ryd(3d)	0.00071	2.27726
875	C	47	S	Cor(1S)	1.99935	-9.73178
876	C	47	S	Val(2S)	0.99796	-0.23625
877	C	47	S	Ryd(3S)	0.00123	1.28825
878	C	47	S	Ryd(4S)	0.00025	2.16423
879	C	47	S	Ryd(5S)	0.00001	20.81049
880	C	47	px	Val(2p)	1.08597	-0.06987
881	C	47	px	Ryd(3p)	0.00171	0.81683
882	C	47	px	Ryd(4p)	0.00046	1.53052
883	C	47	py	Val(2p)	1.09913	-0.07077
884	C	47	py	Ryd(3p)	0.00277	0.83818
885	C	47	py	Ryd(4p)	0.00055	1.53007
886	C	47	pz	Val(2p)	1.07483	-0.07041
887	C	47	pz	Ryd(3p)	0.00201	0.89556
888	C	47	pz	Ryd(4p)	0.00034	1.49744
889	C	47	dxxy	Ryd(3d)	0.00090	2.55930
890	C	47	dxz	Ryd(3d)	0.00095	2.59783
891	C	47	dyz	Ryd(3d)	0.00094	2.56479
892	C	47	dx2y2	Ryd(3d)	0.00037	2.05846
893	C	47	dz2	Ryd(3d)	0.00034	2.13083
894	C	48	S	Cor(1S)	1.99941	-9.72114
895	C	48	S	Val(2S)	1.11731	-0.26757
896	C	48	S	Ryd(3S)	0.00060	1.20273
897	C	48	S	Ryd(4S)	0.00018	2.48676
898	C	48	S	Ryd(5S)	0.00000	20.56879
899	C	48	px	Val(2p)	1.16986	-0.07427
900	C	48	px	Ryd(3p)	0.00074	0.57852
901	C	48	px	Ryd(4p)	0.00023	1.55312
902	C	48	py	Val(2p)	1.16751	-0.07728
903	C	48	py	Ryd(3p)	0.00085	0.57206
904	C	48	py	Ryd(4p)	0.00029	1.49942
905	C	48	pz	Val(2p)	1.15218	-0.07657
906	C	48	pz	Ryd(3p)	0.00064	0.52536
907	C	48	pz	Ryd(4p)	0.00032	1.49306
908	C	48	dxxy	Ryd(3d)	0.00079	2.52410
909	C	48	dxz	Ryd(3d)	0.00080	2.52346
910	C	48	dyz	Ryd(3d)	0.00080	2.49584
911	C	48	dx2y2	Ryd(3d)	0.00014	2.08995
912	C	48	dz2	Ryd(3d)	0.00020	2.10733
913	C	49	S	Cor(1S)	1.99937	-9.74876
914	C	49	S	Val(2S)	0.99642	-0.25314
915	C	49	S	Ryd(4S)	0.00119	1.72400
916	C	49	S	Ryd(3S)	0.00005	1.70258
917	C	49	S	Ryd(5S)	0.00000	21.21593
918	C	49	px	Val(2p)	1.06146	-0.08674
919	C	49	px	Ryd(3p)	0.00185	0.95158
920	C	49	px	Ryd(4p)	0.00042	1.42943
921	C	49	py	Val(2p)	1.15137	-0.08780
922	C	49	py	Ryd(3p)	0.00299	0.94354
923	C	49	py	Ryd(4p)	0.00029	1.36062
924	C	49	pz	Val(2p)	1.03217	-0.08423
925	C	49	pz	Ryd(3p)	0.00115	0.89450
926	C	49	pz	Ryd(4p)	0.00049	1.33938
927	C	49	dxxy	Ryd(3d)	0.00071	2.32475

928	C	49	dxz	Ryd(3d)	0.00055	2.20260
929	C	49	dyz	Ryd(3d)	0.00064	2.43416
930	C	49	dx2y2	Ryd(3d)	0.00066	2.36549
931	C	49	dz2	Ryd(3d)	0.00094	2.45735
932	C	50	S	Cor(1S)	1.99942	-9.73331
933	C	50	S	Val(2S)	1.11610	-0.28088
934	C	50	S	Ryd(3S)	0.00060	1.02795
935	C	50	S	Ryd(4S)	0.00014	2.68109
936	C	50	S	Ryd(5S)	0.00000	20.38211
937	C	50	px	Val(2p)	1.06153	-0.08844
938	C	50	px	Ryd(3p)	0.00039	0.49390
939	C	50	px	Ryd(4p)	0.00063	1.44952
940	C	50	py	Val(2p)	1.21303	-0.09060
941	C	50	py	Ryd(3p)	0.00094	0.52986
942	C	50	py	Ryd(4p)	0.00012	1.51130
943	C	50	pz	Val(2p)	1.21897	-0.08794
944	C	50	pz	Ryd(3p)	0.00125	0.58966
945	C	50	pz	Ryd(4p)	0.00004	1.52441
946	C	50	dxy	Ryd(3d)	0.00068	2.34181
947	C	50	dxz	Ryd(3d)	0.00041	2.17383
948	C	50	dyz	Ryd(3d)	0.00056	2.41185
949	C	50	dx2y2	Ryd(3d)	0.00047	2.34147
950	C	50	dz2	Ryd(3d)	0.00052	2.38171
951	C	51	S	Cor(1S)	1.99937	-9.74918
952	C	51	S	Val(2S)	0.99674	-0.25373
953	C	51	S	Ryd(4S)	0.00117	1.73553
954	C	51	S	Ryd(3S)	0.00006	1.57332
955	C	51	S	Ryd(5S)	0.00000	21.16299
956	C	51	px	Val(2p)	1.06139	-0.08497
957	C	51	px	Ryd(3p)	0.00157	0.85849
958	C	51	px	Ryd(4p)	0.00041	1.35384
959	C	51	py	Val(2p)	1.07414	-0.08694
960	C	51	py	Ryd(3p)	0.00190	0.90903
961	C	51	py	Ryd(4p)	0.00041	1.41113
962	C	51	pz	Val(2p)	1.10859	-0.08750
963	C	51	pz	Ryd(3p)	0.00248	1.04285
964	C	51	pz	Ryd(4p)	0.00028	1.36614
965	C	51	dxy	Ryd(3d)	0.00081	2.46253
966	C	51	dxz	Ryd(3d)	0.00083	2.44346
967	C	51	dyz	Ryd(3d)	0.00090	2.50885
968	C	51	dx2y2	Ryd(3d)	0.00052	2.14114
969	C	51	dz2	Ryd(3d)	0.00042	2.21640
970	C	52	S	Cor(1S)	1.99942	-9.73327
971	C	52	S	Val(2S)	1.11615	-0.28084
972	C	52	S	Ryd(3S)	0.00057	1.06296
973	C	52	S	Ryd(4S)	0.00014	2.73358
974	C	52	S	Ryd(5S)	0.00000	20.31784
975	C	52	px	Val(2p)	1.15435	-0.09140
976	C	52	px	Ryd(3p)	0.00072	0.54051
977	C	52	px	Ryd(4p)	0.00034	1.51293
978	C	52	py	Val(2p)	1.13614	-0.08725
979	C	52	py	Ryd(3p)	0.00080	0.52547
980	C	52	py	Ryd(4p)	0.00035	1.47892
981	C	52	pz	Val(2p)	1.20333	-0.08849
982	C	52	pz	Ryd(3p)	0.00111	0.54168
983	C	52	pz	Ryd(4p)	0.00008	1.50030
984	C	52	dxy	Ryd(3d)	0.00065	2.45172
985	C	52	dxz	Ryd(3d)	0.00050	2.31901
986	C	52	dyz	Ryd(3d)	0.00085	2.50911
987	C	52	dx2y2	Ryd(3d)	0.00037	2.17055
988	C	52	dz2	Ryd(3d)	0.00027	2.19288
989	C	53	S	Cor(1S)	1.99935	-9.73236
990	C	53	S	Val(2S)	0.99743	-0.23675
991	C	53	S	Ryd(3S)	0.00131	1.22161
992	C	53	S	Ryd(4S)	0.00027	2.16940
993	C	53	S	Ryd(5S)	0.00001	20.88206
994	C	53	px	Val(2p)	1.06632	-0.07189

995	C	53	px	Ryd(3p)	0.00232	0.93201
996	C	53	px	Ryd(4p)	0.00048	1.57881
997	C	53	py	Val(2p)	1.15979	-0.07242
998	C	53	py	Ryd(3p)	0.00250	0.87094
999	C	53	py	Ryd(4p)	0.00035	1.50671
1000	C	53	pz	Val(2p)	1.02817	-0.06705
1001	C	53	pz	Ryd(3p)	0.00150	0.75769
1002	C	53	pz	Ryd(4p)	0.00049	1.45272
1003	C	53	dxy	Ryd(3d)	0.00070	2.31075
1004	C	53	dxz	Ryd(3d)	0.00056	2.26310
1005	C	53	dyz	Ryd(3d)	0.00054	2.29526
1006	C	53	dx2y2	Ryd(3d)	0.00070	2.43751
1007	C	53	dz2	Ryd(3d)	0.00101	2.61180
1008	C	54	S	Cor(1S)	1.99941	-9.72189
1009	C	54	S	Val(2S)	1.11757	-0.26857
1010	C	54	S	Ryd(3S)	0.00059	1.19756
1011	C	54	S	Ryd(4S)	0.00017	2.45958
1012	C	54	S	Ryd(5S)	0.00000	20.56164
1013	C	54	px	Val(2p)	1.18130	-0.07600
1014	C	54	px	Ryd(3p)	0.00108	0.56392
1015	C	54	px	Ryd(4p)	0.00020	1.50487
1016	C	54	py	Val(2p)	1.13298	-0.07561
1017	C	54	py	Ryd(3p)	0.00042	0.52806
1018	C	54	py	Ryd(4p)	0.00036	1.49568
1019	C	54	pz	Val(2p)	1.17393	-0.07863
1020	C	54	pz	Ryd(3p)	0.00068	0.56538
1021	C	54	pz	Ryd(4p)	0.00028	1.51709
1022	C	54	dxy	Ryd(3d)	0.00039	2.27768
1023	C	54	dxz	Ryd(3d)	0.00023	2.18490
1024	C	54	dyz	Ryd(3d)	0.00037	2.29302
1025	C	54	dx2y2	Ryd(3d)	0.00084	2.47126
1026	C	54	dz2	Ryd(3d)	0.00088	2.50613
1027	C	55	S	Cor(1S)	1.99942	-9.72860
1028	C	55	S	Val(2S)	1.11695	-0.27747
1029	C	55	S	Ryd(3S)	0.00063	1.22245
1030	C	55	S	Ryd(4S)	0.00022	2.53328
1031	C	55	S	Ryd(5S)	0.00000	20.70752
1032	C	55	px	Val(2p)	1.19623	-0.08482
1033	C	55	px	Ryd(3p)	0.00093	0.73525
1034	C	55	px	Ryd(4p)	0.00023	1.82287
1035	C	55	py	Val(2p)	1.06498	-0.08560
1036	C	55	py	Ryd(3p)	0.00076	0.63873
1037	C	55	py	Ryd(4p)	0.00053	1.63620
1038	C	55	pz	Val(2p)	1.23742	-0.08491
1039	C	55	pz	Ryd(3p)	0.00120	0.64074
1040	C	55	pz	Ryd(4p)	0.00033	1.56284
1041	C	55	dxy	Ryd(3d)	0.00067	2.42221
1042	C	55	dxz	Ryd(3d)	0.00063	2.43922
1043	C	55	dyz	Ryd(3d)	0.00034	2.15147
1044	C	55	dx2y2	Ryd(3d)	0.00043	2.29698
1045	C	55	dz2	Ryd(3d)	0.00059	2.41849
1046	C	56	S	Cor(1S)	1.99942	-9.72106
1047	C	56	S	Val(2S)	1.11491	-0.26989
1048	C	56	S	Ryd(3S)	0.00073	1.18856
1049	C	56	S	Ryd(4S)	0.00023	2.48012
1050	C	56	S	Ryd(5S)	0.00000	20.79066
1051	C	56	px	Val(2p)	1.10122	-0.07528
1052	C	56	px	Ryd(3p)	0.00069	0.68267
1053	C	56	px	Ryd(4p)	0.00039	1.76757
1054	C	56	py	Val(2p)	1.24202	-0.07714
1055	C	56	py	Ryd(3p)	0.00143	0.69604
1056	C	56	py	Ryd(4p)	0.00039	1.51333
1057	C	56	pz	Val(2p)	1.15616	-0.08042
1058	C	56	pz	Ryd(3p)	0.00100	0.72291
1059	C	56	pz	Ryd(4p)	0.00030	1.79215
1060	C	56	dxy	Ryd(3d)	0.00040	2.24039
1061	C	56	dxz	Ryd(3d)	0.00058	2.44151
1062	C	56	dyz	Ryd(3d)	0.00047	2.32368

1063	C	56	dx2y2	Ryd(3d)	0.00073	2.46588
1064	C	56	dz2	Ryd(3d)	0.00047	2.29475
1065	C	57	S	Cor(1S)	1.99943	-9.71209
1066	C	57	S	Val(2S)	1.11233	-0.25878
1067	C	57	S	Ryd(3S)	0.00068	1.27507
1068	C	57	S	Ryd(4S)	0.00021	2.56266
1069	C	57	S	Ryd(5S)	0.00000	20.61201
1070	C	57	px	Val(2p)	1.16213	-0.07069
1071	C	57	px	Ryd(3p)	0.00115	0.69975
1072	C	57	px	Ryd(4p)	0.00041	1.70442
1073	C	57	py	Val(2p)	1.16346	-0.06822
1074	C	57	py	Ryd(3p)	0.00117	0.60679
1075	C	57	py	Ryd(4p)	0.00030	1.59624
1076	C	57	pz	Val(2p)	1.17612	-0.06734
1077	C	57	pz	Ryd(3p)	0.00126	0.58198
1078	C	57	pz	Ryd(4p)	0.00031	1.64538
1079	C	57	dxxy	Ryd(3d)	0.00081	2.53934
1080	C	57	dxz	Ryd(3d)	0.00080	2.51715
1081	C	57	dyyz	Ryd(3d)	0.00073	2.54327
1082	C	57	dx2y2	Ryd(3d)	0.00015	2.09349
1083	C	57	dz2	Ryd(3d)	0.00016	2.10173
1084	C	58	S	Cor(1S)	1.99942	-9.72722
1085	C	58	S	Val(2S)	1.11473	-0.27525
1086	C	58	S	Ryd(3S)	0.00065	1.19038
1087	C	58	S	Ryd(4S)	0.00019	2.49299
1088	C	58	S	Ryd(5S)	0.00000	20.69911
1089	C	58	px	Val(2p)	1.22345	-0.08281
1090	C	58	px	Ryd(3p)	0.00122	0.66023
1091	C	58	px	Ryd(4p)	0.00031	1.49149
1092	C	58	py	Val(2p)	1.16202	-0.08269
1093	C	58	py	Ryd(3p)	0.00076	0.63623
1094	C	58	py	Ryd(4p)	0.00029	1.73070
1095	C	58	pz	Val(2p)	1.11292	-0.08497
1096	C	58	pz	Ryd(3p)	0.00086	0.62465
1097	C	58	pz	Ryd(4p)	0.00044	1.66909
1098	C	58	dxxy	Ryd(3d)	0.00043	2.29344
1099	C	58	dxz	Ryd(3d)	0.00028	2.16527
1100	C	58	dyyz	Ryd(3d)	0.00054	2.41180
1101	C	58	dx2y2	Ryd(3d)	0.00071	2.41813
1102	C	58	dz2	Ryd(3d)	0.00075	2.42434
1103	C	59	S	Cor(1S)	1.99942	-9.72792
1104	C	59	S	Val(2S)	1.11477	-0.27553
1105	C	59	S	Ryd(3S)	0.00061	1.11311
1106	C	59	S	Ryd(4S)	0.00016	2.76377
1107	C	59	S	Ryd(5S)	0.00000	20.47776
1108	C	59	px	Val(2p)	1.21304	-0.08398
1109	C	59	px	Ryd(3p)	0.00112	0.71435
1110	C	59	px	Ryd(4p)	0.00016	1.73909
1111	C	59	py	Val(2p)	1.16511	-0.08633
1112	C	59	py	Ryd(3p)	0.00107	0.59753
1113	C	59	py	Ryd(4p)	0.00029	1.58484
1114	C	59	pz	Val(2p)	1.12106	-0.08355
1115	C	59	pz	Ryd(3p)	0.00064	0.52734
1116	C	59	pz	Ryd(4p)	0.00042	1.60308
1117	C	59	dxxy	Ryd(3d)	0.00069	2.43437
1118	C	59	dxz	Ryd(3d)	0.00059	2.38389
1119	C	59	dyyz	Ryd(3d)	0.00068	2.48368
1120	C	59	dx2y2	Ryd(3d)	0.00026	2.19924
1121	C	59	dz2	Ryd(3d)	0.00041	2.21248
1122	C	60	S	Cor(1S)	1.99943	-9.70847
1123	C	60	S	Val(2S)	1.11166	-0.25536
1124	C	60	S	Ryd(3S)	0.00075	1.31412
1125	C	60	S	Ryd(4S)	0.00023	2.60024
1126	C	60	S	Ryd(5S)	0.00000	20.71304
1127	C	60	px	Val(2p)	1.06373	-0.06394
1128	C	60	px	Ryd(3p)	0.00065	0.67457
1129	C	60	px	Ryd(4p)	0.00056	1.55304

1130	C	60	py	Val(2p)	1.21219	-0.06346
1131	C	60	py	Ryd(3p)	0.00145	0.67952
1132	C	60	py	Ryd(4p)	0.00028	1.65929
1133	C	60	pz	Val(2p)	1.22631	-0.06766
1134	C	60	pz	Ryd(3p)	0.00144	0.67975
1135	C	60	pz	Ryd(4p)	0.00035	1.71386
1136	C	60	dxxy	Ryd(3d)	0.00072	2.38262
1137	C	60	dxz	Ryd(3d)	0.00044	2.23568
1138	C	60	dyz	Ryd(3d)	0.00037	2.28519
1139	C	60	dx2y2	Ryd(3d)	0.00053	2.42118
1140	C	60	dz2	Ryd(3d)	0.00068	2.49798
1141	C	61	S	Cor(1S)	1.99942	-9.72639
1142	C	61	S	Val(2S)	1.11571	-0.27476
1143	C	61	S	Ryd(3S)	0.00065	1.24055
1144	C	61	S	Ryd(4S)	0.00019	2.54612
1145	C	61	S	Ryd(5S)	0.00000	20.70304
1146	C	61	px	Val(2p)	1.20165	-0.08292
1147	C	61	px	Ryd(3p)	0.00121	0.70571
1148	C	61	px	Ryd(4p)	0.00031	1.50078
1149	C	61	py	Val(2p)	1.08343	-0.08131
1150	C	61	py	Ryd(3p)	0.00060	0.57930
1151	C	61	py	Ryd(4p)	0.00052	1.66701
1152	C	61	pz	Val(2p)	1.21305	-0.08355
1153	C	61	pz	Ryd(3p)	0.00108	0.70110
1154	C	61	pz	Ryd(4p)	0.00022	1.77352
1155	C	61	dxxy	Ryd(3d)	0.00054	2.35197
1156	C	61	dxz	Ryd(3d)	0.00028	2.20968
1157	C	61	dyz	Ryd(3d)	0.00047	2.29388
1158	C	61	dx2y2	Ryd(3d)	0.00072	2.39614
1159	C	61	dz2	Ryd(3d)	0.00065	2.47756
1160	C	62	S	Cor(1S)	1.99942	-9.71143
1161	C	62	S	Val(2S)	1.11380	-0.25999
1162	C	62	S	Ryd(3S)	0.00078	1.19177
1163	C	62	S	Ryd(4S)	0.00019	2.53795
1164	C	62	S	Ryd(5S)	0.00000	20.67893
1165	C	62	px	Val(2p)	1.19679	-0.07298
1166	C	62	px	Ryd(3p)	0.00116	0.66994
1167	C	62	px	Ryd(4p)	0.00028	1.68543
1168	C	62	py	Val(2p)	1.24406	-0.07072
1169	C	62	py	Ryd(3p)	0.00157	0.62826
1170	C	62	py	Ryd(4p)	0.00009	1.59873
1171	C	62	pz	Val(2p)	1.07167	-0.06793
1172	C	62	pz	Ryd(3p)	0.00050	0.55660
1173	C	62	pz	Ryd(4p)	0.00065	1.56910
1174	C	62	dxxy	Ryd(3d)	0.00078	2.52987
1175	C	62	dxz	Ryd(3d)	0.00080	2.48686
1176	C	62	dyz	Ryd(3d)	0.00024	2.12734
1177	C	62	dx2y2	Ryd(3d)	0.00020	2.19994
1178	C	62	dz2	Ryd(3d)	0.00067	2.43543
1179	H	63	S	Val(1S)	0.75545	-0.00006
1180	H	63	S	Ryd(3S)	0.00043	1.79090
1181	H	63	S	Ryd(2S)	0.00009	0.80131
1182	H	63	px	Ryd(2p)	0.00055	2.72441
1183	H	63	py	Ryd(2p)	0.00020	1.83780
1184	H	63	pz	Ryd(2p)	0.00020	1.83821
1185	H	64	S	Val(1S)	0.75718	-0.00225
1186	H	64	S	Ryd(3S)	0.00043	1.76802
1187	H	64	S	Ryd(2S)	0.00009	0.77898
1188	H	64	px	Ryd(2p)	0.00013	1.96283
1189	H	64	py	Ryd(2p)	0.00042	2.21533
1190	H	64	pz	Ryd(2p)	0.00041	2.20575
1191	H	65	S	Val(1S)	0.78418	0.02546
1192	H	65	S	Ryd(2S)	0.00119	0.60573
1193	H	65	S	Ryd(3S)	0.00025	2.21725
1194	H	65	px	Ryd(2p)	0.00030	1.92371
1195	H	65	py	Ryd(2p)	0.00041	2.43311

1196	H	65	pz	Ryd(2p)	0.00016	2.08711
1197	H	66	S	Val(1S)	0.78213	0.02715
1198	H	66	S	Ryd(3S)	0.00029	1.21615
1199	H	66	S	Ryd(2S)	0.00018	1.14102
1200	H	66	px	Ryd(2p)	0.00026	1.89543
1201	H	66	py	Ryd(2p)	0.00025	2.15621
1202	H	66	pz	Ryd(2p)	0.00028	2.35279
1203	H	67	S	Val(1S)	0.77872	0.03448
1204	H	67	S	Ryd(2S)	0.00102	0.60382
1205	H	67	S	Ryd(3S)	0.00026	2.22154
1206	H	67	px	Ryd(2p)	0.00023	1.77975
1207	H	67	py	Ryd(2p)	0.00019	1.97766
1208	H	67	pz	Ryd(2p)	0.00046	2.70912
1209	H	68	S	Val(1S)	0.77961	0.02201
1210	H	68	S	Ryd(2S)	0.00134	0.60517
1211	H	68	S	Ryd(3S)	0.00028	2.24521
1212	H	68	px	Ryd(2p)	0.00033	2.25017
1213	H	68	py	Ryd(2p)	0.00036	2.19085
1214	H	68	pz	Ryd(2p)	0.00018	1.99399
1215	H	69	S	Val(1S)	0.78001	0.01924
1216	H	69	S	Ryd(2S)	0.00031	1.13532
1217	H	69	S	Ryd(3S)	0.00019	1.20200
1218	H	69	px	Ryd(2p)	0.00035	2.32887
1219	H	69	py	Ryd(2p)	0.00018	1.84901
1220	H	69	pz	Ryd(2p)	0.00027	2.20996
1221	H	70	S	Val(1S)	0.78187	0.01871
1222	H	70	S	Ryd(2S)	0.00113	0.59534
1223	H	70	S	Ryd(3S)	0.00025	2.20670
1224	H	70	px	Ryd(2p)	0.00019	1.92956
1225	H	70	py	Ryd(2p)	0.00026	1.98732
1226	H	70	pz	Ryd(2p)	0.00041	2.49692
1227	H	71	S	Val(1S)	0.75987	0.01397
1228	H	71	S	Ryd(3S)	0.00043	1.79046
1229	H	71	S	Ryd(2S)	0.00010	0.81350
1230	H	71	px	Ryd(2p)	0.00051	2.56812
1231	H	71	py	Ryd(2p)	0.00013	1.98132
1232	H	71	pz	Ryd(2p)	0.00037	1.90200
1233	H	72	S	Val(1S)	0.76024	0.01383
1234	H	72	S	Ryd(3S)	0.00044	1.76355
1235	H	72	S	Ryd(2S)	0.00010	0.82789
1236	H	72	px	Ryd(2p)	0.00018	2.00162
1237	H	72	py	Ryd(2p)	0.00054	2.71000
1238	H	72	pz	Ryd(2p)	0.00028	1.74205
1239	H	73	S	Val(1S)	0.78537	0.02432
1240	H	73	S	Ryd(2S)	0.00130	0.60137
1241	H	73	S	Ryd(3S)	0.00025	2.21321
1242	H	73	px	Ryd(2p)	0.00034	2.05381
1243	H	73	py	Ryd(2p)	0.00023	2.14663
1244	H	73	pz	Ryd(2p)	0.00029	2.23060
1245	H	74	S	Val(1S)	0.78298	0.02523
1246	H	74	S	Ryd(2S)	0.00032	1.16073
1247	H	74	S	Ryd(3S)	0.00019	1.18684
1248	H	74	px	Ryd(2p)	0.00023	1.86659
1249	H	74	py	Ryd(2p)	0.00040	2.54852
1250	H	74	pz	Ryd(2p)	0.00016	1.99016
1251	H	75	S	Val(1S)	0.77911	0.03410
1252	H	75	S	Ryd(2S)	0.00112	0.59965
1253	H	75	S	Ryd(3S)	0.00027	2.21782
1254	H	75	px	Ryd(2p)	0.00025	1.84584
1255	H	75	py	Ryd(2p)	0.00022	2.11747
1256	H	75	pz	Ryd(2p)	0.00040	2.49339

1257	H	76	S	Val(1S)	0.77901	0.03433
1258	H	76	S	Ryd(2S)	0.00127	0.61461
1259	H	76	S	Ryd(3S)	0.00028	2.24235
1260	H	76	px	Ryd(2p)	0.00039	2.35712
1261	H	76	py	Ryd(2p)	0.00028	1.96936
1262	H	76	pz	Ryd(2p)	0.00022	2.14611
1263	H	77	S	Val(1S)	0.78351	0.02500
1264	H	77	S	Ryd(2S)	0.00031	1.11544
1265	H	77	S	Ryd(3S)	0.00019	1.23573
1266	H	77	px	Ryd(2p)	0.00027	2.14814
1267	H	77	py	Ryd(2p)	0.00030	2.04146
1268	H	77	pz	Ryd(2p)	0.00022	2.20737
1269	H	78	S	Val(1S)	0.78550	0.02394
1270	H	78	S	Ryd(2S)	0.00124	0.60222
1271	H	78	S	Ryd(3S)	0.00024	2.21033
1272	H	78	px	Ryd(2p)	0.00019	1.94210
1273	H	78	py	Ryd(2p)	0.00022	1.82367
1274	H	78	pz	Ryd(2p)	0.00045	2.66211
1275	H	79	S	Val(1S)	0.77152	0.02881
1276	H	79	S	Ryd(2S)	0.00166	0.87202
1277	H	79	S	Ryd(3S)	0.00016	2.52594
1278	H	79	px	Ryd(2p)	0.00024	2.09640
1279	H	79	py	Ryd(2p)	0.00031	2.59878
1280	H	79	pz	Ryd(2p)	0.00021	2.02649
1281	H	80	S	Val(1S)	0.73341	0.07029
1282	H	80	S	Ryd(2S)	0.00353	0.77273
1283	H	80	S	Ryd(3S)	0.00024	2.54707
1284	H	80	px	Ryd(2p)	0.00033	2.32053
1285	H	80	py	Ryd(2p)	0.00020	2.26226
1286	H	80	pz	Ryd(2p)	0.00019	2.19215
1287	H	81	S	Val(1S)	0.77214	0.02743
1288	H	81	S	Ryd(2S)	0.00176	0.83518
1289	H	81	S	Ryd(3S)	0.00018	2.47282
1290	H	81	px	Ryd(2p)	0.00023	2.19652
1291	H	81	py	Ryd(2p)	0.00023	2.15904
1292	H	81	pz	Ryd(2p)	0.00035	2.34035
1293	H	82	S	Val(1S)	0.74296	0.06326
1294	H	82	S	Ryd(2S)	0.00299	0.74796
1295	H	82	S	Ryd(3S)	0.00022	2.49807
1296	H	82	px	Ryd(2p)	0.00017	2.09424
1297	H	82	py	Ryd(2p)	0.00038	2.61831
1298	H	82	pz	Ryd(2p)	0.00017	2.07432
1299	H	83	S	Val(1S)	0.78007	0.01976
1300	H	83	S	Ryd(2S)	0.00171	0.80962
1301	H	83	S	Ryd(3S)	0.00015	2.48728
1302	H	83	px	Ryd(2p)	0.00025	2.11268
1303	H	83	py	Ryd(2p)	0.00030	2.30492
1304	H	83	pz	Ryd(2p)	0.00023	2.29157
1305	H	84	S	Val(1S)	0.76670	0.03664
1306	H	84	S	Ryd(2S)	0.00174	0.71666
1307	H	84	S	Ryd(3S)	0.00019	2.48323
1308	H	84	px	Ryd(2p)	0.00031	2.41738
1309	H	84	py	Ryd(2p)	0.00015	2.01017
1310	H	84	pz	Ryd(2p)	0.00024	2.28875
1311	H	85	S	Val(1S)	0.77807	0.01579
1312	H	85	S	Ryd(2S)	0.00180	0.77717
1313	H	85	S	Ryd(3S)	0.00017	2.42371
1314	H	85	px	Ryd(2p)	0.00029	2.48581
1315	H	85	py	Ryd(2p)	0.00019	1.94487
1316	H	85	pz	Ryd(2p)	0.00031	2.25159

1317	H	86	S	Val(1S)	0.77367	0.02410
1318	H	86	S	Ryd(2S)	0.00158	0.73901
1319	H	86	S	Ryd(3S)	0.00016	2.38593
1320	H	86	px	Ryd(2p)	0.00029	2.41012
1321	H	86	py	Ryd(2p)	0.00024	2.04421
1322	H	86	pz	Ryd(2p)	0.00023	2.20233
1323	H	87	S	Val(1S)	0.78542	0.03308
1324	H	87	S	Ryd(2S)	0.00059	0.63094
1325	H	87	S	Ryd(3S)	0.00013	1.84773
1326	H	87	px	Ryd(2p)	0.00022	2.11263
1327	H	87	py	Ryd(2p)	0.00030	2.38837
1328	H	87	pz	Ryd(2p)	0.00013	1.86769
1329	H	88	S	Val(1S)	0.80078	0.02583
1330	H	88	S	Ryd(2S)	0.00068	0.91421
1331	H	88	S	Ryd(3S)	0.00018	1.57466
1332	H	88	px	Ryd(2p)	0.00027	2.20338
1333	H	88	py	Ryd(2p)	0.00016	1.83060
1334	H	88	pz	Ryd(2p)	0.00024	2.35812
1335	H	89	S	Val(1S)	0.73700	0.07509
1336	H	89	S	Ryd(2S)	0.00088	1.12983
1337	H	89	S	Ryd(3S)	0.00017	1.82789
1338	H	89	px	Ryd(2p)	0.00022	2.18818
1339	H	89	py	Ryd(2p)	0.00031	2.38465
1340	H	89	pz	Ryd(2p)	0.00014	1.88266
1341	H	90	S	Val(1S)	0.78364	0.02266
1342	H	90	S	Ryd(2S)	0.00060	0.67675
1343	H	90	S	Ryd(3S)	0.00013	1.74839
1344	H	90	px	Ryd(2p)	0.00020	1.97931
1345	H	90	py	Ryd(2p)	0.00025	2.47082
1346	H	90	pz	Ryd(2p)	0.00017	1.89307
1347	H	91	S	Val(1S)	0.79026	0.02240
1348	H	91	S	Ryd(2S)	0.00059	1.04313
1349	H	91	S	Ryd(3S)	0.00011	1.56359
1350	H	91	px	Ryd(2p)	0.00015	1.93978
1351	H	91	py	Ryd(2p)	0.00012	1.89231
1352	H	91	pz	Ryd(2p)	0.00035	2.53264
1353	H	92	S	Val(1S)	0.78793	0.02170
1354	H	92	S	Ryd(2S)	0.00085	0.78362
1355	H	92	S	Ryd(3S)	0.00012	1.64852
1356	H	92	px	Ryd(2p)	0.00026	2.36325
1357	H	92	py	Ryd(2p)	0.00013	1.84886
1358	H	92	pz	Ryd(2p)	0.00025	2.16247
1359	H	93	S	Val(1S)	0.78404	0.01628
1360	H	93	S	Ryd(2S)	0.00058	0.63777
1361	H	93	S	Ryd(3S)	0.00013	1.74520
1362	H	93	px	Ryd(2p)	0.00011	1.80572
1363	H	93	py	Ryd(2p)	0.00015	1.85179
1364	H	93	pz	Ryd(2p)	0.00037	2.65761
1365	H	94	S	Val(1S)	0.78819	0.01517
1366	H	94	S	Ryd(2S)	0.00073	0.91439
1367	H	94	S	Ryd(3S)	0.00015	1.54063
1368	H	94	px	Ryd(2p)	0.00017	2.11367
1369	H	94	py	Ryd(2p)	0.00027	2.20582
1370	H	94	pz	Ryd(2p)	0.00022	1.99877
1371	H	95	S	Val(1S)	0.78467	0.01728
1372	H	95	S	Ryd(2S)	0.00050	0.70989
1373	H	95	S	Ryd(3S)	0.00012	1.78401
1374	H	95	px	Ryd(2p)	0.00016	1.99726
1375	H	95	py	Ryd(2p)	0.00031	2.48400
1376	H	95	pz	Ryd(2p)	0.00014	1.82116
1377	H	96	S	Val(1S)	0.78602	0.02163

1378	H	96	S	Ryd(2S)	0.00074	0.58586
1379	H	96	S	Ryd(3S)	0.00015	1.89840
1380	H	96	px	Ryd(2p)	0.00016	1.83523
1381	H	96	py	Ryd(2p)	0.00013	1.90370
1382	H	96	pz	Ryd(2p)	0.00037	2.64065
1383	H	97	S	Val(1S)	0.75954	0.04748
1384	H	97	S	Ryd(2S)	0.00088	0.87543
1385	H	97	S	Ryd(3S)	0.00025	2.46614
1386	H	97	px	Ryd(2p)	0.00032	2.66180
1387	H	97	py	Ryd(2p)	0.00011	1.86284
1388	H	97	pz	Ryd(2p)	0.00015	1.92667
1389	H	98	S	Val(1S)	0.79127	0.02011
1390	H	98	S	Ryd(2S)	0.00069	0.97720
1391	H	98	S	Ryd(3S)	0.00017	1.53464
1392	H	98	px	Ryd(2p)	0.00021	2.00260
1393	H	98	py	Ryd(2p)	0.00024	2.34858
1394	H	98	pz	Ryd(2p)	0.00022	2.04004
1395	H	99	S	Val(1S)	0.78131	0.01844
1396	H	99	S	Ryd(2S)	0.00057	0.64335
1397	H	99	S	Ryd(3S)	0.00013	1.74132
1398	H	99	px	Ryd(2p)	0.00015	1.84027
1399	H	99	py	Ryd(2p)	0.00014	2.04721
1400	H	99	pz	Ryd(2p)	0.00034	2.43069
1401	H	100	S	Val(1S)	0.78971	0.01457
1402	H	100	S	Ryd(2S)	0.00076	0.86018
1403	H	100	S	Ryd(3S)	0.00014	1.59167
1404	H	100	px	Ryd(2p)	0.00030	2.27941
1405	H	100	py	Ryd(2p)	0.00015	2.03538
1406	H	100	pz	Ryd(2p)	0.00021	2.00625
1407	H	101	S	Val(1S)	0.78575	0.01727
1408	H	101	S	Ryd(2S)	0.00053	0.70800
1409	H	101	S	Ryd(3S)	0.00012	1.80274
1410	H	101	px	Ryd(2p)	0.00029	2.41507
1411	H	101	py	Ryd(2p)	0.00011	1.83527
1412	H	101	pz	Ryd(2p)	0.00021	2.05149
1413	H	102	S	Val(1S)	0.78209	0.02805
1414	H	102	S	Ryd(2S)	0.00056	0.64777
1415	H	102	S	Ryd(3S)	0.00015	1.82625
1416	H	102	px	Ryd(2p)	0.00016	1.86124
1417	H	102	py	Ryd(2p)	0.00020	2.03557
1418	H	102	pz	Ryd(2p)	0.00031	2.52869
1419	H	103	S	Val(1S)	0.75294	0.05728
1420	H	103	S	Ryd(2S)	0.00069	0.94945
1421	H	103	S	Ryd(3S)	0.00021	2.55374
1422	H	103	px	Ryd(2p)	0.00012	1.90447
1423	H	103	py	Ryd(2p)	0.00034	2.66727
1424	H	103	pz	Ryd(2p)	0.00012	1.90911
1425	H	104	S	Val(1S)	0.79353	0.02302
1426	H	104	S	Ryd(2S)	0.00073	0.90811
1427	H	104	S	Ryd(3S)	0.00019	1.69129
1428	H	104	px	Ryd(2p)	0.00030	2.44087
1429	H	104	py	Ryd(2p)	0.00018	1.97203
1430	H	104	pz	Ryd(2p)	0.00020	1.99216
1431	H	105	S	Val(1S)	0.78132	0.01442
1432	H	105	S	Ryd(2S)	0.00054	0.63731
1433	H	105	S	Ryd(3S)	0.00013	1.73549
1434	H	105	px	Ryd(2p)	0.00027	2.29258
1435	H	105	py	Ryd(2p)	0.00025	2.13967
1436	H	105	pz	Ryd(2p)	0.00011	1.85447
1437	H	106	S	Val(1S)	0.78269	0.01512
1438	H	106	S	Ryd(2S)	0.00049	0.63519

1439	H	106	S	Ryd(3S)	0.00013	1.80506
1440	H	106	px	Ryd(2p)	0.00017	1.94433
1441	H	106	py	Ryd(2p)	0.00033	2.52444
1442	H	106	pz	Ryd(2p)	0.00011	1.81555
1443	H	107	S	Val(1S)	0.79026	0.01060
1444	H	107	S	Ryd(2S)	0.00071	0.93365
1445	H	107	S	Ryd(3S)	0.00016	1.52577
1446	H	107	px	Ryd(2p)	0.00028	2.21165
1447	H	107	py	Ryd(2p)	0.00015	1.80850
1448	H	107	pz	Ryd(2p)	0.00023	2.25700
1449	H	108	S	Val(1S)	0.78460	0.02002
1450	H	108	S	Ryd(2S)	0.00073	0.60248
1451	H	108	S	Ryd(3S)	0.00015	1.89092
1452	H	108	px	Ryd(2p)	0.00028	2.23927
1453	H	108	py	Ryd(2p)	0.00022	2.24783
1454	H	108	pz	Ryd(2p)	0.00016	1.88556
1455	H	109	S	Val(1S)	0.79003	0.01860
1456	H	109	S	Ryd(2S)	0.00085	0.81596
1457	H	109	S	Ryd(3S)	0.00018	1.77591
1458	H	109	px	Ryd(2p)	0.00030	2.32844
1459	H	109	py	Ryd(2p)	0.00013	1.88698
1460	H	109	pz	Ryd(2p)	0.00024	2.18477
1461	H	110	S	Val(1S)	0.75556	0.04759
1462	H	110	S	Ryd(2S)	0.00064	0.88796
1463	H	110	S	Ryd(3S)	0.00022	2.52048
1464	H	110	px	Ryd(2p)	0.00018	1.95588
1465	H	110	py	Ryd(2p)	0.00010	1.93583
1466	H	110	pz	Ryd(2p)	0.00032	2.58610
1467	H	111	S	Val(1S)	0.78672	0.01961
1468	H	111	S	Ryd(2S)	0.00072	0.61995
1469	H	111	S	Ryd(3S)	0.00014	1.83966
1470	H	111	px	Ryd(2p)	0.00033	2.40056
1471	H	111	py	Ryd(2p)	0.00018	1.96340
1472	H	111	pz	Ryd(2p)	0.00017	1.98654
1473	H	112	S	Val(1S)	0.79290	0.01737
1474	H	112	S	Ryd(2S)	0.00082	0.83015
1475	H	112	S	Ryd(3S)	0.00017	1.69152
1476	H	112	px	Ryd(2p)	0.00023	2.05338
1477	H	112	py	Ryd(2p)	0.00020	2.00126
1478	H	112	pz	Ryd(2p)	0.00025	2.31990
1479	H	113	S	Val(1S)	0.76404	0.04192
1480	H	113	S	Ryd(2S)	0.00044	1.26053
1481	H	113	S	Ryd(3S)	0.00008	2.10641
1482	H	113	px	Ryd(2p)	0.00020	2.10158
1483	H	113	py	Ryd(2p)	0.00021	2.39888
1484	H	113	pz	Ryd(2p)	0.00016	1.92369
1485	H	114	S	Val(1S)	0.78418	0.01830
1486	H	114	S	Ryd(2S)	0.00059	0.63387
1487	H	114	S	Ryd(3S)	0.00014	1.75572
1488	H	114	px	Ryd(2p)	0.00029	2.46233
1489	H	114	py	Ryd(2p)	0.00018	1.91928
1490	H	114	pz	Ryd(2p)	0.00017	1.93262
1491	H	115	S	Val(1S)	0.78240	0.02111
1492	H	115	S	Ryd(2S)	0.00051	0.72657
1493	H	115	S	Ryd(3S)	0.00012	1.75991
1494	H	115	px	Ryd(2p)	0.00014	1.89622
1495	H	115	py	Ryd(2p)	0.00020	2.12270
1496	H	115	pz	Ryd(2p)	0.00026	2.29323
1497	H	116	S	Val(1S)	0.79000	0.01607
1498	H	116	S	Ryd(2S)	0.00075	0.89041
1499	H	116	S	Ryd(3S)	0.00015	1.56445

1500	H	116	px	Ryd(2p)	0.00019	1.95637
1501	H	116	py	Ryd(2p)	0.00020	2.10505
1502	H	116	pz	Ryd(2p)	0.00027	2.25089
1503	H	117	S	Val(1S)	0.78063	0.03275
1504	H	117	S	Ryd(2S)	0.00058	0.69359
1505	H	117	S	Ryd(3S)	0.00013	1.74461
1506	H	117	px	Ryd(2p)	0.00014	1.85025
1507	H	117	py	Ryd(2p)	0.00014	1.85559
1508	H	117	pz	Ryd(2p)	0.00032	2.66936
1509	H	118	S	Val(1S)	0.79236	0.02678
1510	H	118	S	Ryd(2S)	0.00084	0.77086
1511	H	118	S	Ryd(3S)	0.00012	1.67362
1512	H	118	px	Ryd(2p)	0.00018	1.92431
1513	H	118	py	Ryd(2p)	0.00032	2.59230
1514	H	118	pz	Ryd(2p)	0.00015	1.87000
1515	H	119	S	Val(1S)	0.78849	0.03136
1516	H	119	S	Ryd(2S)	0.00060	0.98558
1517	H	119	S	Ryd(3S)	0.00011	1.64427
1518	H	119	px	Ryd(2p)	0.00034	2.69236
1519	H	119	py	Ryd(2p)	0.00014	1.82501
1520	H	119	pz	Ryd(2p)	0.00014	1.86975
1521	H	120	S	Val(1S)	0.76926	0.05063
1522	H	120	S	Ryd(2S)	0.00053	0.74423
1523	H	120	S	Ryd(3S)	0.00014	1.72672
1524	H	120	px	Ryd(2p)	0.00011	1.85860
1525	H	120	py	Ryd(2p)	0.00018	1.92197
1526	H	120	pz	Ryd(2p)	0.00033	2.65841
1527	H	121	S	Val(1S)	0.76360	0.06167
1528	H	121	S	Ryd(2S)	0.00079	0.81272
1529	H	121	S	Ryd(3S)	0.00020	2.45714
1530	H	121	px	Ryd(2p)	0.00014	2.11109
1531	H	121	py	Ryd(2p)	0.00027	2.28320
1532	H	121	pz	Ryd(2p)	0.00016	2.10406
1533	H	122	S	Val(1S)	0.80520	0.02875
1534	H	122	S	Ryd(2S)	0.00070	0.83463
1535	H	122	S	Ryd(3S)	0.00020	1.66866
1536	H	122	px	Ryd(2p)	0.00017	2.07325
1537	H	122	py	Ryd(2p)	0.00035	2.49322
1538	H	122	pz	Ryd(2p)	0.00016	1.84886
1539	H	123	S	Val(1S)	0.76792	0.04954
1540	H	123	S	Ryd(2S)	0.00067	0.70450
1541	H	123	S	Ryd(3S)	0.00014	1.81082
1542	H	123	px	Ryd(2p)	0.00022	2.25531
1543	H	123	py	Ryd(2p)	0.00022	2.05784
1544	H	123	pz	Ryd(2p)	0.00018	2.09328
1545	H	124	S	Val(1S)	0.80245	0.02773
1546	H	124	S	Ryd(2S)	0.00070	0.86851
1547	H	124	S	Ryd(3S)	0.00018	1.62433
1548	H	124	px	Ryd(2p)	0.00021	2.03562
1549	H	124	py	Ryd(2p)	0.00020	2.12112
1550	H	124	pz	Ryd(2p)	0.00025	2.23639
1551	H	125	S	Val(1S)	0.77264	0.04769
1552	H	125	S	Ryd(2S)	0.00053	0.77061
1553	H	125	S	Ryd(3S)	0.00015	2.10057
1554	H	125	px	Ryd(2p)	0.00019	2.09747
1555	H	125	py	Ryd(2p)	0.00021	2.18799
1556	H	125	pz	Ryd(2p)	0.00021	2.14163
1557	H	126	S	Val(1S)	0.77990	0.03374
1558	H	126	S	Ryd(2S)	0.00057	0.69782
1559	H	126	S	Ryd(3S)	0.00013	1.74165
1560	H	126	px	Ryd(2p)	0.00024	2.10767

1561	H	126	py	Ryd(2p)	0.00017	2.06630
1562	H	126	pz	Ryd(2p)	0.00019	2.21072
1563	H	127	S	Val(1S)	0.78610	0.03408
1564	H	127	S	Ryd(2S)	0.00059	1.10145
1565	H	127	S	Ryd(3S)	0.00012	1.54770
1566	H	127	px	Ryd(2p)	0.00018	2.09043
1567	H	127	py	Ryd(2p)	0.00023	2.27263
1568	H	127	pz	Ryd(2p)	0.00022	2.05125
1569	H	128	S	Val(1S)	0.79321	0.02684
1570	H	128	S	Ryd(2S)	0.00084	0.75753
1571	H	128	S	Ryd(3S)	0.00012	1.68447
1572	H	128	px	Ryd(2p)	0.00022	2.18818
1573	H	128	py	Ryd(2p)	0.00024	2.08634
1574	H	128	pz	Ryd(2p)	0.00019	2.11489
1575	H	129	S	Val(1S)	0.78416	0.01812
1576	H	129	S	Ryd(2S)	0.00059	0.63319
1577	H	129	S	Ryd(3S)	0.00013	1.76183
1578	H	129	px	Ryd(2p)	0.00011	1.88672
1579	H	129	py	Ryd(2p)	0.00020	2.01831
1580	H	129	pz	Ryd(2p)	0.00032	2.41811
1581	H	130	S	Val(1S)	0.78995	0.01615
1582	H	130	S	Ryd(2S)	0.00076	0.87756
1583	H	130	S	Ryd(3S)	0.00015	1.57210
1584	H	130	px	Ryd(2p)	0.00016	2.10565
1585	H	130	py	Ryd(2p)	0.00034	2.40488
1586	H	130	pz	Ryd(2p)	0.00015	1.82022
1587	H	131	S	Val(1S)	0.78295	0.02104
1588	H	131	S	Ryd(2S)	0.00057	0.77435
1589	H	131	S	Ryd(3S)	0.00011	1.74234
1590	H	131	px	Ryd(2p)	0.00012	1.89364
1591	H	131	py	Ryd(2p)	0.00021	2.12270
1592	H	131	pz	Ryd(2p)	0.00026	2.29508
1593	H	132	S	Val(1S)	0.78564	0.02073
1594	H	132	S	Ryd(2S)	0.00073	0.56044
1595	H	132	S	Ryd(3S)	0.00016	1.91335
1596	H	132	px	Ryd(2p)	0.00017	1.87457
1597	H	132	py	Ryd(2p)	0.00021	1.98693
1598	H	132	pz	Ryd(2p)	0.00027	2.50432
1599	H	133	S	Val(1S)	0.76264	0.04502
1600	H	133	S	Ryd(2S)	0.00089	0.83922
1601	H	133	S	Ryd(3S)	0.00022	2.42096
1602	H	133	px	Ryd(2p)	0.00034	2.69790
1603	H	133	py	Ryd(2p)	0.00014	1.83706
1604	H	133	pz	Ryd(2p)	0.00012	1.86101
1605	H	134	S	Val(1S)	0.79518	0.01655
1606	H	134	S	Ryd(2S)	0.00072	0.91314
1607	H	134	S	Ryd(3S)	0.00018	1.57788
1608	H	134	px	Ryd(2p)	0.00020	1.99169
1609	H	134	py	Ryd(2p)	0.00034	2.52503
1610	H	134	pz	Ryd(2p)	0.00014	1.85737

WARNING: 1 low occupancy (<1.9990e) core orbital found on C 1
1 low occupancy (<1.9990e) core orbital found on C 3
1 low occupancy (<1.9990e) core orbital found on C 4
1 low occupancy (<1.9990e) core orbital found on C 5
1 low occupancy (<1.9990e) core orbital found on C 10
1 low occupancy (<1.9990e) core orbital found on B 14
1 low occupancy (<1.9990e) core orbital found on B 15
1 low occupancy (<1.9990e) core orbital found on C 16
1 low occupancy (<1.9990e) core orbital found on C 21
1 low occupancy (<1.9990e) core orbital found on C 22
1 low occupancy (<1.9990e) core orbital found on C 26
1 low occupancy (<1.9990e) core orbital found on C 31

1 low occupancy (<1.9990e) core orbital found on C 32
 1 low occupancy (<1.9990e) core orbital found on C 36
 1 low occupancy (<1.9990e) core orbital found on C 41
 1 low occupancy (<1.9990e) core orbital found on C 42
 1 low occupancy (<1.9990e) core orbital found on C 46

WARNING: Population inversion found on atom C 6
 Population inversion found on atom C 8
 Population inversion found on atom C 10
 Population inversion found on atom B 14
 Population inversion found on atom B 15
 Population inversion found on atom C 16
 Population inversion found on atom C 23
 Population inversion found on atom C 25
 Population inversion found on atom C 29
 Population inversion found on atom C 30
 Population inversion found on atom C 37
 Population inversion found on atom C 38
 Population inversion found on atom C 39
 Population inversion found on atom C 40
 Population inversion found on atom C 43
 Population inversion found on atom C 45
 Population inversion found on atom C 49
 Population inversion found on atom C 50
 Population inversion found on atom C 51
 Population inversion found on atom C 62
 Population inversion found on atom H 63
 Population inversion found on atom H 64
 Population inversion found on atom H 66
 Population inversion found on atom H 71
 Population inversion found on atom H 72

Summary of Natural Population Analysis:

Atom	No	Natural Charge	Natural Population			
			Core	Valence	Rydberg	Total
C	1	0.12851	1.99866	3.83690	0.03593	5.87149
O	2	-0.61101	1.99981	6.59309	0.01810	8.61101
C	3	0.02479	1.99898	3.95929	0.01694	5.97521
C	4	0.12115	1.99875	3.86161	0.01849	5.87885
C	5	0.00766	1.99898	3.97651	0.01685	5.99234
C	6	-0.22364	1.99909	4.21174	0.01281	6.22364
C	7	-0.19852	1.99920	4.18597	0.01335	6.19852
C	8	-0.22205	1.99910	4.21020	0.01275	6.22205
N	9	-0.33973	1.99944	5.32065	0.01964	7.33973
C	10	0.12972	1.99868	3.85010	0.02150	5.87028
N	11	-0.33974	1.99943	5.32037	0.01994	7.33974
C	12	-0.09948	1.99902	4.08373	0.01672	6.09948
C	13	-0.10033	1.99902	4.08462	0.01669	6.10033
B	14	0.06235	1.99770	2.92790	0.01206	4.93765
B	15	-0.16142	1.99698	3.15022	0.01422	5.16142
C	16	0.21605	1.99875	3.76261	0.02260	5.78395
N	17	-0.31003	1.99942	5.29160	0.01901	7.31003
C	18	-0.08187	1.99904	4.06665	0.01618	6.08187
C	19	-0.09119	1.99904	4.07606	0.01610	6.09119
N	20	-0.31522	1.99942	5.29648	0.01932	7.31522
C	21	0.11509	1.99873	3.86635	0.01983	5.88491
C	22	0.03333	1.99897	3.94819	0.01951	5.96667
C	23	-0.20835	1.99909	4.19618	0.01307	6.20835
C	24	-0.19335	1.99920	4.18089	0.01326	6.19335
C	25	-0.22024	1.99909	4.20856	0.01259	6.22024
C	26	0.00362	1.99898	3.98038	0.01703	5.99638
C	27	-0.25193	1.99936	4.23978	0.01279	6.25193
C	28	-0.61366	1.99941	4.60773	0.00651	6.61366
C	29	-0.24838	1.99937	4.23747	0.01154	6.24838
C	30	-0.61635	1.99942	4.61023	0.00669	6.61635
C	31	0.11991	1.99874	3.86256	0.01879	5.88009
C	32	0.01230	1.99898	3.97191	0.01681	5.98770

C	33	-0.21880	1.99910	4.20700	0.01270	6.21880
C	34	-0.19625	1.99920	4.18381	0.01324	6.19625
C	35	-0.21794	1.99909	4.20626	0.01258	6.21794
C	36	0.02057	1.99898	3.96347	0.01698	5.97943
C	37	-0.25060	1.99937	4.23978	0.01145	6.25060
C	38	-0.61786	1.99943	4.61167	0.00676	6.61786
C	39	-0.25073	1.99936	4.23974	0.01162	6.25073
C	40	-0.61509	1.99942	4.60912	0.00654	6.61509
C	41	0.11788	1.99874	3.86488	0.01850	5.88212
C	42	0.02420	1.99899	3.96030	0.01651	5.97580
C	43	-0.22241	1.99910	4.21035	0.01296	6.22241
C	44	-0.19794	1.99919	4.18527	0.01348	6.19794
C	45	-0.22485	1.99909	4.21281	0.01295	6.22485
C	46	0.00736	1.99898	3.97663	0.01702	5.99264
C	47	-0.27005	1.99935	4.25789	0.01280	6.27005
C	48	-0.61283	1.99941	4.60686	0.00656	6.61283
C	49	-0.25270	1.99937	4.24142	0.01191	6.25270
C	50	-0.61581	1.99942	4.60964	0.00675	6.61581
C	51	-0.25198	1.99937	4.24086	0.01176	6.25198
C	52	-0.61613	1.99942	4.60996	0.00675	6.61613
C	53	-0.26380	1.99935	4.25171	0.01274	6.26380
C	54	-0.61166	1.99941	4.60578	0.00647	6.61166
C	55	-0.62250	1.99942	4.61558	0.00750	6.62250
C	56	-0.62154	1.99942	4.61431	0.00781	6.62154
C	57	-0.62160	1.99943	4.61404	0.00814	6.62160
C	58	-0.61998	1.99942	4.61313	0.00744	6.61998
C	59	-0.62050	1.99942	4.61399	0.00710	6.62050
C	60	-0.62176	1.99943	4.61390	0.00843	6.62176
C	61	-0.62070	1.99942	4.61383	0.00744	6.62070
C	62	-0.63365	1.99942	4.62633	0.00790	6.63365
H	63	0.24307	0.00000	0.75545	0.00147	0.75693
H	64	0.24134	0.00000	0.75718	0.00148	0.75866
H	65	0.21351	0.00000	0.78418	0.00232	0.78649
H	66	0.21660	0.00000	0.78213	0.00126	0.78340
H	67	0.21914	0.00000	0.77872	0.00215	0.78086
H	68	0.21790	0.00000	0.77961	0.00250	0.78210
H	69	0.21869	0.00000	0.78001	0.00130	0.78131
H	70	0.21590	0.00000	0.78187	0.00224	0.78410
H	71	0.23860	0.00000	0.75987	0.00153	0.76140
H	72	0.23821	0.00000	0.76024	0.00155	0.76179
H	73	0.21223	0.00000	0.78537	0.00241	0.78777
H	74	0.21573	0.00000	0.78298	0.00130	0.78427
H	75	0.21863	0.00000	0.77911	0.00226	0.78137
H	76	0.21854	0.00000	0.77901	0.00244	0.78146
H	77	0.21520	0.00000	0.78351	0.00128	0.78480
H	78	0.21217	0.00000	0.78550	0.00233	0.78783
H	79	0.22590	0.00000	0.77152	0.00258	0.77410
H	80	0.26210	0.00000	0.73341	0.00449	0.73790
H	81	0.22511	0.00000	0.77214	0.00275	0.77489
H	82	0.25313	0.00000	0.74296	0.00391	0.74687
H	83	0.21729	0.00000	0.78007	0.00264	0.78271
H	84	0.23067	0.00000	0.76670	0.00263	0.76933
H	85	0.21917	0.00000	0.77807	0.00276	0.78083
H	86	0.22383	0.00000	0.77367	0.00250	0.77617
H	87	0.21320	0.00000	0.78542	0.00138	0.78680
H	88	0.19770	0.00000	0.80078	0.00152	0.80230
H	89	0.26129	0.00000	0.73700	0.00172	0.73871
H	90	0.21502	0.00000	0.78364	0.00134	0.78498
H	91	0.20842	0.00000	0.79026	0.00132	0.79158
H	92	0.21046	0.00000	0.78793	0.00161	0.78954
H	93	0.21461	0.00000	0.78404	0.00135	0.78539
H	94	0.21027	0.00000	0.78819	0.00153	0.78973
H	95	0.21410	0.00000	0.78467	0.00123	0.78590
H	96	0.21243	0.00000	0.78602	0.00155	0.78757
H	97	0.23875	0.00000	0.75954	0.00171	0.76125
H	98	0.20721	0.00000	0.79127	0.00152	0.79279
H	99	0.21735	0.00000	0.78131	0.00134	0.78265
H	100	0.20872	0.00000	0.78971	0.00157	0.79128
H	101	0.21299	0.00000	0.78575	0.00126	0.78701
H	102	0.21652	0.00000	0.78209	0.00138	0.78348
H	103	0.24558	0.00000	0.75294	0.00148	0.75442

H	104	0.20486	0.00000	0.79353	0.00160	0.79514
H	105	0.21737	0.00000	0.78132	0.00131	0.78263
H	106	0.21608	0.00000	0.78269	0.00123	0.78392
H	107	0.20821	0.00000	0.79026	0.00153	0.79179
H	108	0.21386	0.00000	0.78460	0.00154	0.78614
H	109	0.20828	0.00000	0.79003	0.00170	0.79172
H	110	0.24298	0.00000	0.75556	0.00146	0.75702
H	111	0.21175	0.00000	0.78672	0.00153	0.78825
H	112	0.20542	0.00000	0.79290	0.00168	0.79458
H	113	0.23486	0.00000	0.76404	0.00111	0.76514
H	114	0.21445	0.00000	0.78418	0.00136	0.78555
H	115	0.21635	0.00000	0.78240	0.00124	0.78365
H	116	0.20845	0.00000	0.79000	0.00156	0.79155
H	117	0.21805	0.00000	0.78063	0.00132	0.78195
H	118	0.20603	0.00000	0.79236	0.00161	0.79397
H	119	0.21019	0.00000	0.78849	0.00133	0.78981
H	120	0.22945	0.00000	0.76926	0.00129	0.77055
H	121	0.23485	0.00000	0.76360	0.00156	0.76515
H	122	0.19322	0.00000	0.80520	0.00158	0.80678
H	123	0.23063	0.00000	0.76792	0.00144	0.76937
H	124	0.19600	0.00000	0.80245	0.00155	0.80400
H	125	0.22607	0.00000	0.77264	0.00129	0.77393
H	126	0.21880	0.00000	0.77990	0.00131	0.78120
H	127	0.21257	0.00000	0.78610	0.00133	0.78743
H	128	0.20518	0.00000	0.79321	0.00161	0.79482
H	129	0.21449	0.00000	0.78416	0.00135	0.78551
H	130	0.20848	0.00000	0.78995	0.00156	0.79152
H	131	0.21577	0.00000	0.78295	0.00128	0.78423
H	132	0.21281	0.00000	0.78564	0.00154	0.78719
H	133	0.23566	0.00000	0.76264	0.00170	0.76434
H	134	0.20324	0.00000	0.79518	0.00158	0.79676

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* Total * 0.00000 123.94637 323.08119 0.97245 448.00000

Natural Population

Core 123.94637 (99.9567% of 124)
Valence 323.08119 (99.7164% of 324)
Natural Minimal Basis 447.02755 (99.7829% of 448)
Natural Rydberg Basis 0.97245 (0.2171% of 448)

Atom No Natural Electron Configuration

C 1 [core]2S(0.91)2p(2.92)3S(0.01)3p(0.02)3d(0.01)
O 2 [core]2S(1.70)2p(4.89)3p(0.01)
C 3 [core]2S(0.93)2p(3.03)3p(0.01)
C 4 [core]2S(0.87)2p(2.99)3p(0.01)
C 5 [core]2S(0.92)2p(3.05)3p(0.01)
C 6 [core]2S(0.97)2p(3.24)
C 7 [core]2S(0.98)2p(3.21)3p(0.01)
C 8 [core]2S(0.97)2p(3.24)3p(0.01)
N 9 [core]2S(1.19)2p(4.13)3p(0.01)
C 10 [core]2S(0.95)2p(2.90)3p(0.01)4p(0.01)
N 11 [core]2S(1.19)2p(4.13)3p(0.01)
C 12 [core]2S(0.95)2p(3.13)3p(0.01)
C 13 [core]2S(0.95)2p(3.13)3p(0.01)
B 14 [core]2S(0.66)2p(2.26)
B 15 [core]2S(0.62)2p(2.53)
C 16 [core]2S(0.95)2p(2.81)3p(0.01)4p(0.01)
N 17 [core]2S(1.20)2p(4.10)3p(0.01)
C 18 [core]2S(0.95)2p(3.11)3p(0.01)
C 19 [core]2S(0.96)2p(3.12)3p(0.01)
N 20 [core]2S(1.19)2p(4.10)3p(0.01)
C 21 [core]2S(0.87)2p(3.00)3p(0.01)
C 22 [core]2S(0.92)2p(3.03)3p(0.01)
C 23 [core]2S(0.97)2p(3.22)
C 24 [core]2S(0.98)2p(3.20)3p(0.01)
C 25 [core]2S(0.97)2p(3.24)3p(0.01)
C 26 [core]2S(0.92)2p(3.06)3p(0.01)
C 27 [core]2S(1.00)2p(3.24)3p(0.01)

C	28	[core]2S(1.12)2p(3.49)
C	29	[core]2S(1.00)2p(3.24)3p(0.01)
C	30	[core]2S(1.12)2p(3.49)
C	31	[core]2S(0.87)2p(3.00)3p(0.01)
C	32	[core]2S(0.92)2p(3.05)3p(0.01)
C	33	[core]2S(0.97)2p(3.23)3p(0.01)
C	34	[core]2S(0.98)2p(3.21)3p(0.01)
C	35	[core]2S(0.97)2p(3.23)3p(0.01)
C	36	[core]2S(0.92)2p(3.04)3p(0.01)
C	37	[core]2S(1.00)2p(3.24)3p(0.01)
C	38	[core]2S(1.11)2p(3.50)
C	39	[core]2S(1.00)2p(3.24)3p(0.01)
C	40	[core]2S(1.12)2p(3.49)
C	41	[core]2S(0.87)2p(3.00)3p(0.01)
C	42	[core]2S(0.93)2p(3.03)3p(0.01)
C	43	[core]2S(0.97)2p(3.24)3p(0.01)
C	44	[core]2S(0.98)2p(3.21)3p(0.01)
C	45	[core]2S(0.97)2p(3.24)3p(0.01)
C	46	[core]2S(0.92)2p(3.05)3p(0.01)
C	47	[core]2S(1.00)2p(3.26)3p(0.01)
C	48	[core]2S(1.12)2p(3.49)
C	49	[core]2S(1.00)2p(3.25)3p(0.01)
C	50	[core]2S(1.12)2p(3.49)
C	51	[core]2S(1.00)2p(3.24)3p(0.01)
C	52	[core]2S(1.12)2p(3.49)
C	53	[core]2S(1.00)2p(3.25)3p(0.01)
C	54	[core]2S(1.12)2p(3.49)
C	55	[core]2S(1.12)2p(3.50)
C	56	[core]2S(1.11)2p(3.50)
C	57	[core]2S(1.11)2p(3.50)
C	58	[core]2S(1.11)2p(3.50)
C	59	[core]2S(1.11)2p(3.50)
C	60	[core]2S(1.11)2p(3.50)
C	61	[core]2S(1.12)2p(3.50)
C	62	[core]2S(1.11)2p(3.51)
H	63	1S(0.76)
H	64	1S(0.76)
H	65	1S(0.78)
H	66	1S(0.78)
H	67	1S(0.78)
H	68	1S(0.78)
H	69	1S(0.78)
H	70	1S(0.78)
H	71	1S(0.76)
H	72	1S(0.76)
H	73	1S(0.79)
H	74	1S(0.78)
H	75	1S(0.78)
H	76	1S(0.78)
H	77	1S(0.78)
H	78	1S(0.79)
H	79	1S(0.77)
H	80	1S(0.73)
H	81	1S(0.77)
H	82	1S(0.74)
H	83	1S(0.78)
H	84	1S(0.77)
H	85	1S(0.78)
H	86	1S(0.77)
H	87	1S(0.79)
H	88	1S(0.80)
H	89	1S(0.74)
H	90	1S(0.78)
H	91	1S(0.79)
H	92	1S(0.79)
H	93	1S(0.78)
H	94	1S(0.79)
H	95	1S(0.78)
H	96	1S(0.79)
H	97	1S(0.76)
H	98	1S(0.79)

H 99 1S(0.78)
H 100 1S(0.79)
H 101 1S(0.79)
H 102 1S(0.78)
H 103 1S(0.75)
H 104 1S(0.79)
H 105 1S(0.78)
H 106 1S(0.78)
H 107 1S(0.79)
H 108 1S(0.78)
H 109 1S(0.79)
H 110 1S(0.76)
H 111 1S(0.79)
H 112 1S(0.79)
H 113 1S(0.76)
H 114 1S(0.78)
H 115 1S(0.78)
H 116 1S(0.79)
H 117 1S(0.78)
H 118 1S(0.79)
H 119 1S(0.79)
H 120 1S(0.77)
H 121 1S(0.76)
H 122 1S(0.81)
H 123 1S(0.77)
H 124 1S(0.80)
H 125 1S(0.77)
H 126 1S(0.78)
H 127 1S(0.79)
H 128 1S(0.79)
H 129 1S(0.78)
H 130 1S(0.79)
H 131 1S(0.78)
H 132 1S(0.79)
H 133 1S(0.76)
H 134 1S(0.80)

NATURAL BOND ORBITAL ANALYSIS:

Cycle	Occ. Thresh.	Occupancies		Lewis Structure				Low	High	Dev
		Lewis	Non-Lewis	CR	BD	3C	LP	occ (L)	occ (NL)	
1(1)	1.90	426.68707	21.31293	62	140	0	22	21	21	1.25
2(2)	1.90	426.68707	21.31293	62	140	0	22	21	21	1.25
3(1)	1.80	429.54420	18.45580	62	145	0	17	16	19	0.89
4(2)	1.80	429.54420	18.45580	62	145	0	17	16	19	0.89
5(1)	1.70	429.45121	18.54879	62	144	0	18	16	19	0.89
6(2)	1.70	429.45121	18.54879	62	144	0	18	16	19	0.89
7(1)	1.60	436.90072	11.09928	62	158	0	4	2	20	0.44
8(2)	1.60	436.49078	11.50922	62	157	0	5	3	20	0.44
9(3)	1.60	436.90072	11.09928	62	158	0	4	2	20	0.44
10(1)	1.50	436.58556	11.41444	62	154	0	8	1	19	0.55
11(2)	1.50	436.58556	11.41444	62	154	0	8	1	19	0.55
12(1)	1.60	436.90072	11.09928	62	158	0	4	2	20	0.44

Structure accepted: RESONANCE keyword permits strongly delocalized structure

WARNING: 1 low occupancy (<1.9990e) core orbital found on C 1
1 low occupancy (<1.9990e) core orbital found on C 3
1 low occupancy (<1.9990e) core orbital found on C 4
1 low occupancy (<1.9990e) core orbital found on C 5
1 low occupancy (<1.9990e) core orbital found on C 10
1 low occupancy (<1.9990e) core orbital found on B 14
1 low occupancy (<1.9990e) core orbital found on B 15
1 low occupancy (<1.9990e) core orbital found on C 16
1 low occupancy (<1.9990e) core orbital found on C 21
1 low occupancy (<1.9990e) core orbital found on C 22
1 low occupancy (<1.9990e) core orbital found on C 26

1 low occupancy (<1.9990e) core orbital found on C 31
 1 low occupancy (<1.9990e) core orbital found on C 32
 1 low occupancy (<1.9990e) core orbital found on C 36
 1 low occupancy (<1.9990e) core orbital found on C 41
 1 low occupancy (<1.9990e) core orbital found on C 42
 1 low occupancy (<1.9990e) core orbital found on C 46

Core	123.94632 (99.957% of 124)
Valence Lewis	312.95441 (96.591% of 324)
=====	
Total Lewis	436.90072 (97.522% of 448)

Valence non-Lewis	10.37751 (2.316% of 448)
Rydberg non-Lewis	0.72177 (0.161% of 448)
=====	
Total non-Lewis	11.09928 (2.478% of 448)

(Occupancy)	Bond orbital/	Coefficients/	Hybrids

1. (1.99525)	BD (1) C	1 - O	2
(35.42%)	0.5952* C	1 s(34.37%)p	1.91(65.56%)d 0.00(0.06%)
			-0.0003 0.5810 0.0787 0.0026 0.0008
			-0.1509 0.0180 -0.0037 0.2199 -0.0122
			0.0042 -0.7618 0.0561 -0.0225 -0.0018
			0.0052 -0.0118 -0.0016 0.0209
(64.58%)	0.8036* O	2 s(39.92%)p	1.50(59.94%)d 0.00(0.14%)
			0.0000 0.6315 -0.0188 0.0010 0.0004
			0.1663 -0.0065 0.0004 -0.1629 0.0093
			-0.0006 0.7377 -0.0308 0.0019 -0.0037
			0.0129 -0.0137 -0.0010 0.0316
2. (1.98559)	BD (2) C	1 - O	2
(26.78%)	0.5175* C	1 s(0.01%)p	99.99(99.72%)d 18.73(0.27%)
			0.0002 -0.0112 -0.0035 -0.0020 -0.0003
			-0.2669 0.0057 0.0009 0.9119 -0.0046
			0.0006 0.3072 -0.0019 0.0018 -0.0103
			0.0104 -0.0412 -0.0105 -0.0253
(73.22%)	0.8557* O	2 s(0.02%)p	99.99(99.88%)d 5.56(0.10%)
			0.0000 -0.0134 -0.0014 -0.0001 0.0000
			-0.2373 0.0040 0.0009 0.9322 -0.0117
			-0.0030 0.2709 -0.0019 -0.0007 0.0081
			-0.0058 0.0259 0.0058 0.0143
3. (1.68991)	BD (1) C	1 - B	14
(60.05%)	0.7749* C	1 s(25.83%)p	2.87(74.14%)d 0.00(0.03%)
			-0.0001 0.5076 -0.0246 -0.0070 -0.0004
			0.8031 0.0080 -0.0050 0.1500 -0.0005
			0.0048 0.2708 0.0196 -0.0097 0.0031
			0.0135 -0.0001 0.0090 0.0021
(39.95%)	0.6321* B	14 s(18.02%)p	4.55(81.92%)d 0.00(0.06%)
			-0.0048 0.4244 0.0071 -0.0015 -0.0003
			-0.4109 0.0053 -0.0033 0.0158 0.0057
			0.0025 -0.8062 -0.0060 -0.0081 0.0063
			0.0176 -0.0066 0.0089 0.0131
4. (1.86978)	BD (1) C	1 - B	15
(60.99%)	0.7810* C	1 s(40.15%)p	1.49(59.83%)d 0.00(0.02%)
			0.0001 -0.6328 0.0332 -0.0034 0.0001
			0.5101 0.0005 0.0070 0.3077 0.0062
			0.0019 -0.4931 -0.0133 0.0081 -0.0030
			0.0054 0.0082 0.0022 -0.0088
(39.01%)	0.6246* B	15 s(26.26%)p	2.81(73.68%)d 0.00(0.06%)
			0.0013 -0.5124 0.0006 -0.0061 -0.0024
			0.1733 0.0148 0.0020 -0.2436 0.0080
			-0.0044 0.8041 -0.0048 0.0218 -0.0056
			-0.0010 0.0151 0.0019 -0.0182
5. (1.96959)	BD (1) C	3 - C	4
(49.25%)	0.7018* C	3 s(33.55%)p	1.98(66.40%)d 0.00(0.05%)
			0.0000 0.5792 0.0032 -0.0011 0.0000
			0.6350 0.0004 0.0019 -0.3736 0.0069
			-0.0003 0.3477 0.0118 -0.0009 -0.0140

									0.0145	-0.0072	0.0091	-0.0030	
	(50.75%)	0.7124*	C	4	s (36.74%)	p 1.72 (63.22%)	d 0.00 (0.05%)		-0.0002	0.6061	-0.0011	-0.0031	0.0001
									-0.6195	-0.0040	0.0023	0.3295	0.0077
									0.0040	-0.3739	0.0032	0.0010	-0.0129
									0.0138	-0.0072	0.0075	-0.0019	
6.	(1.97359)	BD (1)	C	3 - C	8								
	(50.42%)	0.7101*	C	3	s (34.07%)	p 1.93 (65.88%)	d 0.00 (0.05%)		-0.0001	0.5836	0.0091	0.0048	0.0002
									-0.4788	0.0077	-0.0076	0.4929	-0.0029
									0.0080	0.4318	0.0076	-0.0010	-0.0138
									-0.0104	0.0129	-0.0009	0.0007	
	(49.58%)	0.7041*	C	8	s (35.90%)	p 1.78 (64.04%)	d 0.00 (0.06%)		0.0001	0.5992	-0.0007	-0.0043	-0.0002
									0.4507	-0.0025	-0.0059	-0.4802	-0.0069
									0.0071	-0.4539	-0.0196	0.0025	-0.0166
									-0.0120	0.0142	0.0003	-0.0001	
7.	(1.63548)	BD (2)	C	3 - C	8								
	(47.79%)	0.6913*	C	3	s (0.01%)	p 1.00 (99.96%)	d 0.00 (0.04%)		-0.0002	-0.0061	-0.0052	0.0017	0.0003
									0.5871	-0.0051	-0.0041	0.7766	-0.0049
									0.0038	-0.2274	0.0013	0.0034	0.0020
									0.0102	0.0115	-0.0080	-0.0077	
	(52.21%)	0.7226*	C	8	s (0.00%)	p 1.00 (99.97%)	d 0.00 (0.03%)		0.0000	-0.0005	0.0012	-0.0001	0.0005
									0.5811	-0.0025	0.0077	0.7759	-0.0046
									0.0117	-0.2444	0.0029	-0.0050	0.0039
									-0.0044	0.0011	0.0165	0.0008	
8.	(1.96975)	BD (1)	C	3 - C	53								
	(50.58%)	0.7112*	C	3	s (32.34%)	p 2.09 (67.63%)	d 0.00 (0.03%)		-0.0001	0.5687	-0.0066	-0.0047	-0.0002
									-0.1492	-0.0019	-0.0020	-0.1170	0.0003
									0.0019	-0.8000	-0.0171	0.0075	-0.0010
									0.0041	0.0037	0.0004	0.0167	
	(49.42%)	0.7030*	C	53	s (26.35%)	p 2.79 (73.59%)	d 0.00 (0.06%)		0.0002	0.5134	-0.0001	0.0003	0.0007
									0.1312	-0.0019	-0.0018	0.1039	-0.0049
									0.0005	0.8413	-0.0005	0.0012	0.0017
									0.0071	0.0055	0.0001	0.0222	
9.	(1.96881)	BD (1)	C	4 - C	5								
	(50.40%)	0.7100*	C	4	s (36.67%)	p 1.73 (63.29%)	d 0.00 (0.05%)		-0.0002	0.6055	-0.0021	-0.0024	0.0002
									0.1961	-0.0018	0.0000	0.1188	0.0073
									0.0029	0.7617	0.0054	0.0009	0.0001
									0.0098	0.0064	0.0016	0.0184	
	(49.60%)	0.7043*	C	5	s (34.19%)	p 1.92 (65.76%)	d 0.00 (0.05%)		0.0000	0.5847	0.0024	-0.0005	0.0000
									-0.1664	-0.0103	0.0024	-0.1615	0.0086
									-0.0002	-0.7770	-0.0013	0.0000	-0.0001
									0.0093	0.0063	0.0014	0.0199	
10.	(1.66564)	BD (2)	C	4 - C	5								
	(53.47%)	0.7313*	C	4	s (0.01%)	p 1.00 (99.97%)	d 0.00 (0.02%)		-0.0002	-0.0074	-0.0051	0.0012	0.0002
									0.5662	-0.0040	-0.0069	0.7814	-0.0019
									-0.0052	-0.2617	0.0052	0.0035	0.0036
									0.0068	0.0089	-0.0036	-0.0072	
	(46.53%)	0.6821*	C	5	s (0.00%)	p 1.00 (99.95%)	d 0.00 (0.05%)		0.0000	-0.0033	-0.0047	0.0017	0.0001
									0.5493	-0.0052	-0.0024	0.7857	-0.0081
									-0.0027	-0.2835	0.0007	-0.0017	-0.0075
									-0.0073	-0.0147	-0.0077	0.0082	
11.	(1.98185)	BD (1)	C	4 - N	9								
	(37.66%)	0.6136*	C	4	s (26.55%)	p 2.76 (73.39%)	d 0.00 (0.06%)		-0.0002	0.5151	0.0074	0.0066	-0.0005
									0.5066	0.0050	0.0081	-0.5159	-0.0055
									-0.0090	-0.4593	0.0016	-0.0076	-0.0161
									-0.0134	0.0140	0.0008	-0.0009	
	(62.34%)	0.7896*	N	9	s (34.35%)	p 1.91 (65.61%)	d 0.00 (0.04%)		-0.0001	0.5861	0.0014	-0.0018	-0.0002
									-0.5033	-0.0022	0.0070	0.4858	0.0043
									-0.0067	0.4082	-0.0003	-0.0048	-0.0105

-0.0123 0.0112 -0.0002 -0.0016
 12. (1.97300) BD (1) C 5 - C 6
 (50.49%) 0.7106* C 5 s(33.92%)p 1.95(66.03%)d 0.00(0.05%)
 -0.0001 0.5823 0.0106 0.0031 0.0001
 -0.4752 -0.0025 -0.0010 0.4927 -0.0003
 0.0048 0.4376 -0.0094 0.0090 -0.0150
 -0.0100 0.0120 0.0004 -0.0013
 (49.51%) 0.7036* C 6 s(35.81%)p 1.79(64.13%)d 0.00(0.06%)
 0.0001 0.5984 -0.0016 -0.0044 -0.0001
 0.4925 0.0164 -0.0051 -0.4866 -0.0112
 0.0066 -0.4018 0.0051 0.0076 -0.0168
 -0.0117 0.0137 0.0007 -0.0004
 13. (1.96978) BD (1) C 5 - C 51
 (50.02%) 0.7072* C 5 s(31.86%)p 2.14(68.11%)d 0.00(0.03%)
 -0.0001 0.5644 -0.0069 -0.0033 0.0000
 0.6662 0.0130 -0.0046 -0.3364 -0.0053
 0.0026 0.3517 0.0096 -0.0018 -0.0105
 0.0103 -0.0041 0.0084 -0.0036
 (49.98%) 0.7070* C 51 s(26.67%)p 2.75(73.28%)d 0.00(0.06%)
 0.0001 0.5164 0.0015 -0.0019 -0.0002
 -0.7022 0.0010 0.0024 0.3264 -0.0035
 0.0000 -0.3649 -0.0009 0.0026 -0.0128
 0.0144 -0.0069 0.0104 -0.0054
 14. (1.98099) BD (1) C 6 - C 7
 (50.22%) 0.7086* C 6 s(36.09%)p 1.77(63.85%)d 0.00(0.05%)
 0.0000 0.6006 0.0147 0.0044 0.0001
 -0.6446 -0.0175 -0.0032 0.3477 0.0183
 0.0066 -0.3178 0.0155 0.0120 -0.0115
 0.0161 -0.0067 0.0089 -0.0006
 (49.78%) 0.7056* C 7 s(35.95%)p 1.78(63.98%)d 0.00(0.07%)
 0.0000 0.5996 0.0077 -0.0016 -0.0001
 0.6232 0.0103 -0.0093 -0.3357 0.0025
 0.0091 0.3708 0.0309 0.0057 -0.0182
 0.0120 -0.0058 0.0096 -0.0073
 15. (1.67366) BD (2) C 6 - C 7
 (51.04%) 0.7144* C 6 s(0.00%)p 1.00(99.98%)d 0.00(0.02%)
 0.0000 0.0015 -0.0002 0.0006 0.0001
 0.5570 -0.0058 0.0136 0.7859 -0.0076
 0.0176 -0.2669 0.0028 -0.0054 -0.0053
 -0.0049 -0.0103 -0.0058 0.0060
 (48.96%) 0.6997* C 7 s(0.00%)p 1.00(99.97%)d 0.00(0.03%)
 0.0000 0.0039 0.0000 0.0013 0.0001
 0.5698 -0.0063 0.0060 0.7800 -0.0074
 0.0096 -0.2578 0.0028 -0.0028 0.0044
 -0.0034 0.0027 0.0148 0.0002
 16. (1.97545) BD (1) C 6 - H 78
 (60.76%) 0.7795* C 6 s(28.07%)p 2.56(71.90%)d 0.00(0.04%)
 -0.0004 0.5297 -0.0109 -0.0003 0.0001
 0.1735 -0.0082 -0.0044 0.1530 0.0002
 -0.0007 0.8155 -0.0142 -0.0126 0.0010
 0.0071 0.0057 0.0003 0.0168
 (39.24%) 0.6264* H 78 s(99.95%)p 0.00(0.05%)
 0.9997 0.0022 0.0013 -0.0050 -0.0040
 -0.0222
 17. (1.98085) BD (1) C 7 - C 8
 (49.96%) 0.7069* C 7 s(36.04%)p 1.77(63.89%)d 0.00(0.06%)
 0.0000 0.6003 0.0063 -0.0024 -0.0002
 -0.1853 -0.0243 -0.0055 -0.1213 0.0118
 0.0094 -0.7672 -0.0174 0.0095 -0.0005
 0.0050 0.0105 -0.0005 0.0226
 (50.04%) 0.7074* C 8 s(35.83%)p 1.79(64.12%)d 0.00(0.05%)
 0.0000 0.5984 0.0139 0.0046 0.0002
 0.1372 -0.0176 -0.0093 0.1417 0.0186
 0.0098 0.7754 0.0163 0.0012 -0.0001
 0.0115 0.0031 0.0019 0.0191
 18. (1.97757) BD (1) C 7 - H 77
 (60.84%) 0.7800* C 7 s(27.95%)p 2.58(72.01%)d 0.00(0.03%)
 0.0004 -0.5286 0.0118 -0.0036 -0.0003
 0.5010 -0.0133 0.0018 -0.5131 0.0144
 -0.0026 -0.4530 0.0128 -0.0024 0.0076
 0.0127 -0.0092 0.0020 0.0041

(39.16%) 0.6258* H 77 s(99.95%)p 0.00(0.05%)
-0.9997 -0.0015 -0.0005 -0.0136 0.0141
0.0123

19. (1.97490) BD (1) C 8 - H 76
(61.08%) 0.7816* C 8 s(28.24%)p 2.54(71.73%)d 0.00(0.04%)
0.0004 -0.5313 0.0108 0.0006 -0.0001
0.6628 -0.0102 -0.0096 -0.3826 0.0062
0.0030 0.3622 -0.0106 -0.0065 0.0115
-0.0112 0.0063 -0.0070 0.0039
(38.92%) 0.6238* H 76 s(99.95%)p 0.00(0.05%)
-0.9997 0.0020 -0.0015 -0.0184 0.0096
-0.0106

20. (1.97311) BD (1) N 9 - C 10
(62.47%) 0.7904* N 9 s(33.77%)p 1.96(66.17%)d 0.00(0.05%)
0.0001 -0.5812 0.0006 -0.0005 -0.0001
0.1567 -0.0128 0.0030 0.7937 -0.0065
-0.0042 0.0829 0.0075 -0.0023 -0.0033
0.0015 -0.0045 0.0191 0.0116
(37.53%) 0.6126* C 10 s(26.30%)p 2.80(73.64%)d 0.00(0.06%)
0.0004 -0.5123 -0.0205 -0.0092 0.0005
-0.0496 0.0115 0.0041 -0.8485 -0.0207
-0.0158 -0.1141 -0.0057 -0.0065 -0.0078
0.0005 -0.0007 0.0195 0.0135

21. (1.85857) BD (2) N 9 - C 10
(76.19%) 0.8729* N 9 s(0.08%)p99.99(99.90%)d 0.16(0.01%)
-0.0001 -0.0286 0.0055 -0.0002 0.0000
0.4677 0.0066 0.0033 -0.2030 -0.0001
-0.0017 0.8596 0.0076 0.0085 -0.0057
0.0023 -0.0086 0.0003 -0.0047
(23.81%) 0.4879* C 10 s(0.09%)p99.99(99.74%)d 1.76(0.17%)
0.0003 0.0299 0.0060 -0.0037 0.0003
0.4290 -0.0003 0.0060 -0.1623 -0.0095
0.0087 0.8865 0.0299 -0.0064 0.0161
0.0117 0.0336 0.0113 0.0020

22. (1.97621) BD (1) N 9 - C 13
(61.98%) 0.7873* N 9 s(31.75%)p 2.15(68.20%)d 0.00(0.05%)
-0.0001 0.5634 -0.0047 0.0013 0.0001
0.7088 -0.0056 -0.0011 0.3030 -0.0236
0.0050 -0.2953 0.0059 -0.0005 0.0098
-0.0129 -0.0026 0.0134 -0.0081
(38.02%) 0.6166* C 13 s(28.26%)p 2.54(71.68%)d 0.00(0.05%)
-0.0001 0.5316 0.0032 0.0003 -0.0016
-0.7547 -0.0287 -0.0054 -0.1846 0.0096
0.0080 0.3346 0.0139 -0.0005 0.0120
-0.0141 -0.0041 0.0101 -0.0092

23. (1.97446) BD (1) C 10 - N 11
(37.53%) 0.6126* C 10 s(26.68%)p 2.75(73.25%)d 0.00(0.07%)
0.0003 -0.5161 -0.0213 -0.0043 -0.0005
-0.6918 -0.0103 -0.0069 0.2967 0.0190
0.0109 0.4064 0.0119 0.0035 0.0066
0.0197 -0.0043 -0.0148 0.0043
(62.47%) 0.7904* N 11 s(34.03%)p 1.94(65.91%)d 0.00(0.05%)
0.0001 -0.5834 0.0016 0.0010 -0.0001
0.7080 -0.0084 -0.0014 -0.1705 -0.0128
0.0062 -0.3585 0.0042 0.0015 0.0095
0.0166 -0.0055 -0.0109 0.0048

24. (1.96616) BD (1) C 10 - B 14
(66.78%) 0.8172* C 10 s(46.95%)p 1.13(53.05%)d 0.00(0.01%)
0.0001 -0.6850 0.0155 0.0068 0.0001
0.5768 -0.0305 -0.0040 0.4040 -0.0161
-0.0044 -0.1823 0.0052 0.0044 -0.0050
0.0025 -0.0008 -0.0025 0.0069
(33.22%) 0.5763* B 14 s(40.37%)p 1.48(59.58%)d 0.00(0.05%)
0.0004 -0.6352 0.0007 -0.0122 -0.0023
-0.6817 -0.0097 -0.0209 -0.3609 -0.0041
-0.0118 0.0061 -0.0050 -0.0015 -0.0169
0.0041 0.0030 -0.0093 0.0109

25. (1.97540) BD (1) N 11 - C 12
(61.97%) 0.7872* N 11 s(31.51%)p 2.17(68.44%)d 0.00(0.05%)
-0.0001 0.5613 -0.0035 -0.0002 0.0001
0.5370 -0.0192 0.0027 0.6123 -0.0020

-0.0030 -0.1432 0.0151 -0.0031 0.0183
 -0.0038 -0.0031 -0.0049 -0.0122
 (38.03%) 0.6167* C 12 s(28.22%)p 2.54(71.71%)d 0.00(0.06%)
 -0.0001 0.5312 0.0034 0.0015 -0.0012
 -0.4570 -0.0049 0.0039 -0.7044 -0.0333
 -0.0062 0.1045 -0.0039 -0.0063 0.0193
 -0.0078 -0.0050 -0.0033 -0.0130

26. (1.98143) BD (1) N 11 - C 41
 (62.37%) 0.7897* N 11 s(34.36%)p 1.91(65.60%)d 0.00(0.04%)
 -0.0001 0.5862 0.0010 0.0012 -0.0002
 0.2057 0.0034 -0.0033 -0.7610 -0.0028
 0.0091 -0.1858 -0.0035 0.0033 -0.0086
 -0.0031 0.0054 -0.0132 -0.0101
 (37.63%) 0.6135* C 41 s(26.52%)p 2.77(73.36%)d 0.00(0.12%)
 -0.0002 0.5149 0.0047 0.0051 -0.0006
 -0.2723 -0.0053 0.0002 0.7932 -0.0014
 0.0077 0.1726 -0.0195 0.0063 -0.0216
 0.0013 -0.0086 -0.0195 -0.0170

27. (1.60454) BD (2) N 11 - C 41
 (98.46%) 0.9923* N 11 s(0.05%)p 99.99(99.95%)d 0.07(0.00%)
 -0.0002 -0.0219 0.0041 0.0000 0.0000
 0.4088 0.0051 0.0039 -0.1270 0.0003
 -0.0017 0.9034 0.0040 0.0089 0.0025
 0.0014 0.0047 0.0000 0.0026
 (1.54%) 0.1241* C 41 s(1.14%)p 58.44(66.45%)d 28.50(32.41%)
 0.0006 0.0261 0.0961 0.0380 0.0044
 0.2042 0.1381 -0.0950 -0.0584 -0.0396
 0.0642 0.6365 0.4107 -0.1088 0.2537
 -0.0832 0.4746 0.0335 0.1627

28. (1.97682) BD (1) C 12 - C 13
 (49.99%) 0.7070* C 12 s(37.54%)p 1.66(62.40%)d 0.00(0.05%)
 0.0000 0.6126 0.0104 0.0031 0.0006
 -0.2903 0.0129 0.0145 0.6870 0.0316
 0.0095 0.2575 -0.0015 -0.0065 -0.0138
 -0.0098 0.0116 -0.0063 -0.0088
 (50.01%) 0.7072* C 13 s(37.53%)p 1.66(62.42%)d 0.00(0.05%)
 0.0000 0.6125 0.0100 0.0033 0.0007
 0.4344 0.0312 0.0123 -0.5810 0.0004
 0.0120 -0.3106 -0.0146 -0.0068 -0.0117
 -0.0077 0.0113 -0.0105 -0.0100

29. (1.91018) BD (2) C 12 - C 13
 (50.00%) 0.7071* C 12 s(0.00%)p 1.00(99.94%)d 0.00(0.06%)
 0.0000 -0.0008 -0.0050 0.0014 0.0001
 0.4327 -0.0088 -0.0005 -0.1495 0.0032
 0.0009 0.8884 -0.0214 0.0006 0.0094
 -0.0085 0.0127 -0.0041 0.0156
 (50.00%) 0.7071* C 13 s(0.00%)p 1.00(99.94%)d 0.00(0.06%)
 0.0000 0.0009 -0.0060 0.0030 0.0001
 0.4317 -0.0092 0.0002 -0.1515 0.0050
 -0.0009 0.8886 -0.0207 -0.0004 -0.0107
 0.0030 -0.0186 0.0000 -0.0108

30. (1.97879) BD (1) C 12 - H 71
 (61.95%) 0.7871* C 12 s(34.17%)p 1.93(65.81%)d 0.00(0.02%)
 -0.0003 0.5845 -0.0079 -0.0037 0.0002
 0.7203 -0.0114 0.0016 -0.0807 0.0051
 0.0116 -0.3639 0.0070 0.0004 -0.0028
 -0.0105 0.0017 0.0096 -0.0034
 (38.05%) 0.6168* H 71 s(99.93%)p 0.00(0.07%)
 0.9997 0.0018 0.0002 -0.0228 0.0029
 0.0117

31. (1.97878) BD (1) C 13 - H 72
 (61.94%) 0.7870* C 13 s(34.15%)p 1.93(65.83%)d 0.00(0.02%)
 -0.0003 0.5843 -0.0076 -0.0032 0.0005
 0.2301 -0.0005 0.0092 0.7776 -0.0141
 -0.0024 0.0202 -0.0012 -0.0069 0.0068
 -0.0005 0.0012 -0.0107 -0.0079
 (38.06%) 0.6169* H 72 s(99.93%)p 0.00(0.07%)
 0.9997 0.0018 0.0003 -0.0071 -0.0249
 -0.0005

32. (1.82710) BD (1) B 14 - B 15
 (50.00%) 0.7071* B 14 s(41.46%)p 1.41(58.51%)d 0.00(0.02%)

					0.0003	0.6439	0.0009	-0.0079	-0.0014
					-0.3842	-0.0057	0.0086	-0.3996	0.0034
					0.0018	0.5269	-0.0074	0.0050	0.0076
					0.0007	0.0047	0.0094	-0.0089	
	(50.00%)	0.7071*	B 15	s(35.85%)p 1.79(64.13%)d 0.00(0.02%)	0.0005	0.5986	0.0042	-0.0098	-0.0020
					0.7256	-0.0099	-0.0112	0.1869	-0.0087
					-0.0056	0.2817	0.0076	0.0063	0.0093
					-0.0066	-0.0034	0.0077	-0.0060	
33.	(1.95720)	BD (1)	B 15 - C 16						
	(33.95%)	0.5827*	B 15	s(37.77%)p 1.65(62.19%)d 0.00(0.04%)	-0.0012	0.6145	0.0018	0.0069	0.0010
					-0.5565	0.0034	-0.0173	-0.3990	0.0015
					-0.0123	0.3904	0.0032	0.0120	0.0138
					-0.0106	-0.0073	0.0053	-0.0034	
	(66.05%)	0.8127*	C 16	s(46.89%)p 1.13(53.11%)d 0.00(0.01%)	0.0000	0.6845	-0.0171	-0.0050	0.0001
					0.5370	-0.0245	-0.0049	0.4029	-0.0194
					-0.0035	-0.2812	0.0163	0.0008	0.0037
					-0.0034	-0.0045	0.0027	-0.0010	
34.	(1.97511)	BD (1)	C 16 - N 17						
	(37.05%)	0.6087*	C 16	s(26.30%)p 2.80(73.63%)d 0.00(0.07%)	-0.0004	0.5122	0.0236	0.0037	-0.0003
					-0.8032	-0.0162	-0.0108	-0.0083	0.0092
					0.0049	-0.3003	-0.0176	-0.0091	0.0067
					0.0107	0.0011	0.0214	-0.0115	
	(62.95%)	0.7934*	N 17	s(34.38%)p 1.91(65.56%)d 0.00(0.06%)	-0.0001	0.5864	-0.0022	-0.0015	0.0001
					0.7863	-0.0066	-0.0019	0.0549	-0.0116
					0.0031	0.1846	0.0087	-0.0045	0.0012
					0.0131	-0.0012	0.0179	-0.0081	
35.	(1.85625)	BD (2)	C 16 - N 17						
	(25.94%)	0.5093*	C 16	s(0.07%)p99.99(99.77%)d 2.47(0.16%)	0.0001	0.0253	0.0036	-0.0009	0.0004
					-0.2338	-0.0032	-0.0016	0.7218	0.0263
					-0.0108	0.6489	0.0149	-0.0030	-0.0258
					-0.0251	-0.0090	0.0145	-0.0061	
	(74.06%)	0.8606*	N 17	s(0.02%)p99.99(99.96%)d 0.83(0.02%)	0.0000	-0.0143	0.0040	-0.0006	0.0000
					-0.1986	-0.0038	-0.0022	0.7039	0.0040
					0.0076	0.6816	0.0057	0.0065	0.0077
					0.0049	0.0034	0.0004	0.0094	
36.	(1.97558)	BD (1)	C 16 - N 20						
	(37.02%)	0.6085*	C 16	s(26.80%)p 2.73(73.13%)d 0.00(0.07%)	-0.0003	0.5170	0.0259	0.0042	-0.0001
					0.0963	0.0178	0.0088	-0.5605	-0.0103
					-0.0076	0.6379	0.0143	0.0130	0.0019
					-0.0022	-0.0231	-0.0113	0.0068	
	(62.98%)	0.7936*	N 20	s(34.60%)p 1.89(65.35%)d 0.00(0.05%)	-0.0001	0.5882	-0.0036	-0.0020	0.0001
					0.0229	-0.0153	0.0047	0.5448	-0.0081
					-0.0012	-0.5965	0.0009	0.0033	-0.0013
					0.0028	-0.0204	-0.0079	0.0071	
37.	(1.97731)	BD (1)	N 17 - C 18						
	(61.94%)	0.7870*	N 17	s(31.37%)p 2.19(68.57%)d 0.00(0.05%)	-0.0001	0.5601	-0.0057	0.0000	0.0001
					-0.4787	0.0226	-0.0035	-0.5294	0.0078
					0.0015	0.4191	0.0062	-0.0032	0.0129
					-0.0110	-0.0158	-0.0027	-0.0006	
	(38.06%)	0.6169*	C 18	s(28.59%)p 2.50(71.35%)d 0.00(0.07%)	-0.0001	0.5346	0.0044	0.0015	-0.0011
					0.3761	-0.0019	-0.0064	0.5764	0.0225
					0.0011	-0.4884	-0.0260	-0.0067	0.0166
					-0.0107	-0.0163	0.0000	-0.0038	
38.	(1.98138)	BD (1)	N 17 - C 21						
	(63.11%)	0.7944*	N 17	s(34.18%)p 1.92(65.78%)d 0.00(0.03%)	-0.0001	0.5846	0.0029	0.0013	-0.0001
					-0.3348	-0.0051	0.0045	0.4695	0.0027
					-0.0052	-0.5702	-0.0066	0.0070	-0.0074
					0.0091	-0.0141	-0.0023	0.0024	
	(36.89%)	0.6074*	C 21	s(25.90%)p 2.86(74.02%)d 0.00(0.07%)					

					-0.0002	0.5088	0.0080	0.0075	-0.0006
					0.3843	0.0033	0.0051	-0.5020	0.0002
					-0.0066	0.5834	0.0058	0.0075	-0.0121
					0.0132	-0.0184	-0.0049	0.0059	
39.	(1.97697)	BD (1) C	18 - C	19					
	(49.97%)	0.7069*	C	18	s (37.04%)	p 1.70 (62.91%)	d 0.00 (0.05%)		
					0.0000	-0.6085	-0.0095	-0.0027	-0.0007
					-0.4291	0.0111	0.0143	0.3778	0.0241
					0.0094	-0.5484	-0.0219	-0.0041	0.0081
					-0.0167	0.0116	-0.0080	-0.0012	
	(50.03%)	0.7073*	C	19	s (37.19%)	p 1.69 (62.76%)	d 0.00 (0.05%)		
					0.0000	-0.6097	-0.0092	-0.0028	-0.0006
					0.5697	0.0334	0.0103	-0.2598	0.0086
					0.0130	0.4838	0.0013	-0.0070	0.0083
					-0.0153	0.0146	-0.0040	-0.0036	
40.	(1.87142)	BD (2) C	18 - C	19					
	(49.67%)	0.7047*	C	18	s (0.00%)	p 1.00 (99.94%)	d 0.00 (0.06%)		
					0.0000	0.0007	-0.0023	0.0012	0.0001
					-0.2259	0.0043	0.0000	0.7106	-0.0159
					0.0003	0.6655	-0.0144	0.0008	0.0156
					0.0102	0.0056	-0.0009	0.0149	
	(50.33%)	0.7095*	C	19	s (0.00%)	p 1.00 (99.94%)	d 0.00 (0.06%)		
					0.0000	0.0027	-0.0028	0.0019	0.0001
					-0.2352	0.0051	-0.0005	0.7109	-0.0170
					0.0014	0.6620	-0.0139	0.0000	-0.0099
					-0.0021	-0.0036	-0.0074	-0.0203	
41.	(1.97977)	BD (1) C	18 - H	63					
	(62.20%)	0.7886*	C	18	s (34.32%)	p 1.91 (65.66%)	d 0.00 (0.02%)		
					0.0003	-0.5857	0.0077	0.0033	-0.0002
					0.7890	-0.0146	0.0005	0.1341	-0.0003
					0.0085	0.1252	-0.0058	-0.0082	-0.0036
					-0.0043	0.0000	-0.0120	0.0068	
	(37.80%)	0.6148*	H	63	s (99.93%)	p 0.00 (0.07%)			
					-0.9997	-0.0018	-0.0002	-0.0252	-0.0037
					-0.0045				
42.	(1.97686)	BD (1) C	19 - N	20					
	(37.98%)	0.6163*	C	19	s (28.42%)	p 2.52 (71.51%)	d 0.00 (0.07%)		
					-0.0001	0.5331	0.0043	0.0013	-0.0012
					0.7774	0.0331	0.0053	0.3228	0.0004
					-0.0070	-0.0726	0.0095	0.0051	0.0178
					-0.0061	-0.0073	0.0116	-0.0109	
	(62.02%)	0.7875*	N	20	s (31.27%)	p 2.20 (68.68%)	d 0.00 (0.05%)		
					-0.0001	0.5592	-0.0037	0.0003	0.0001
					-0.7108	0.0036	0.0032	-0.3916	0.0201
					-0.0033	0.1659	-0.0141	0.0029	0.0148
					-0.0045	-0.0036	0.0134	-0.0104	
43.	(1.98034)	BD (1) C	19 - H	64					
	(62.13%)	0.7882*	C	19	s (34.33%)	p 1.91 (65.65%)	d 0.00 (0.02%)		
					0.0003	-0.5858	0.0073	0.0033	-0.0002
					0.1129	0.0021	0.0106	0.5674	-0.0108
					0.0028	-0.5669	0.0110	0.0037	-0.0022
					0.0018	0.0130	0.0057	-0.0036	
	(37.87%)	0.6154*	H	64	s (99.93%)	p 0.00 (0.07%)			
					-0.9997	-0.0019	-0.0002	-0.0030	-0.0183
					0.0182				
44.	(1.98185)	BD (1) N	20 - C	31					
	(62.78%)	0.7923*	N	20	s (34.08%)	p 1.93 (65.89%)	d 0.00 (0.04%)		
					-0.0001	0.5838	0.0027	0.0017	-0.0002
					0.6545	0.0049	-0.0078	-0.1638	-0.0043
					0.0023	0.4511	0.0052	-0.0056	-0.0032
					0.0152	-0.0046	0.0103	0.0002	
	(37.22%)	0.6101*	C	31	s (26.18%)	p 2.82 (73.75%)	d 0.00 (0.07%)		
					-0.0002	0.5116	0.0082	0.0071	-0.0004
					-0.6697	-0.0030	-0.0076	0.1648	0.0037
					0.0014	-0.5115	-0.0015	-0.0063	-0.0069
					0.0213	-0.0037	0.0136	0.0005	
45.	(1.96835)	BD (1) C	21 - C	22					
	(50.89%)	0.7133*	C	21	s (37.14%)	p 1.69 (62.82%)	d 0.00 (0.05%)		
					-0.0002	0.6094	-0.0012	-0.0033	0.0001
					0.0162	-0.0063	-0.0045	-0.2457	0.0018
					-0.0007	-0.7533	-0.0054	0.0006	-0.0014

					0.0002	0.0119	-0.0035	0.0176	
	(49.11%)	0.7008*	C 22	s(33.53%)p 1.98(66.42%)d 0.00(0.06%)	0.0000	0.5790	0.0030	-0.0011	0.0000
					0.0120	-0.0097	-0.0007	0.2101	0.0098
					-0.0023	0.7872	0.0007	0.0016	-0.0018
					-0.0009	0.0108	-0.0026	0.0206	
46.	(1.96787)	BD (1)	C 21 - C 26						
	(50.49%)	0.7105*	C 21	s(36.89%)p 1.71(63.07%)d 0.00(0.05%)	-0.0002	0.6073	-0.0019	-0.0025	0.0002
					-0.3615	-0.0084	-0.0040	0.6531	0.0045
					0.0017	0.2708	-0.0021	0.0000	-0.0152
					-0.0061	0.0106	-0.0082	-0.0049	
	(49.51%)	0.7036*	C 26	s(34.11%)p 1.93(65.83%)d 0.00(0.05%)	0.0000	0.5841	0.0031	-0.0005	0.0000
					0.3858	-0.0048	-0.0013	-0.6772	-0.0003
					-0.0011	-0.2253	-0.0121	0.0031	-0.0157
					-0.0053	0.0105	-0.0099	-0.0063	
47.	(1.67376)	BD (2)	C 21 - C 26						
	(53.97%)	0.7346*	C 21	s(0.04%)p99.99(99.94%)d 0.56(0.02%)	0.0002	0.0165	0.0091	-0.0003	-0.0003
					0.8489	-0.0014	-0.0054	0.5104	-0.0067
					-0.0051	-0.1348	0.0024	0.0031	0.0047
					0.0029	-0.0004	-0.0130	0.0003	
	(46.03%)	0.6785*	C 26	s(0.00%)p 1.00(99.95%)d 0.00(0.05%)	0.0000	0.0009	0.0057	-0.0020	-0.0002
					0.8387	-0.0097	-0.0036	0.5255	-0.0027
					0.0014	-0.1409	0.0020	0.0018	-0.0098
					-0.0126	-0.0052	0.0135	0.0036	
48.	(1.97239)	BD (1)	C 22 - C 23						
	(50.45%)	0.7103*	C 22	s(34.21%)p 1.92(65.75%)d 0.00(0.05%)	-0.0001	0.5848	0.0089	0.0043	0.0003
					-0.3818	-0.0038	-0.0048	0.4604	0.0050
					-0.0007	-0.5473	0.0078	-0.0115	-0.0122
					0.0121	-0.0123	-0.0026	0.0031	
	(49.55%)	0.7039*	C 23	s(35.86%)p 1.79(64.08%)d 0.00(0.06%)	0.0001	0.5988	-0.0004	-0.0041	-0.0003
					0.3862	0.0115	-0.0045	-0.4769	-0.0167
					0.0050	0.5135	-0.0026	-0.0092	-0.0134
					0.0132	-0.0150	-0.0037	0.0054	
49.	(1.63022)	BD (2)	C 22 - C 23						
	(48.31%)	0.6950*	C 22	s(0.02%)p99.99(99.94%)d 1.71(0.03%)	-0.0002	-0.0062	-0.0128	0.0010	0.0006
					-0.8456	0.0042	-0.0024	-0.5105	0.0073
					0.0028	0.1537	-0.0064	-0.0038	-0.0065
					0.0004	0.0033	0.0172	-0.0010	
	(51.69%)	0.7190*	C 23	s(0.00%)p 1.00(99.96%)d 0.00(0.03%)	0.0000	-0.0001	-0.0045	0.0001	0.0001
					-0.8394	0.0021	-0.0147	-0.5229	0.0037
					-0.0117	0.1459	0.0003	0.0029	0.0013
					-0.0134	-0.0097	-0.0065	0.0038	
50.	(1.96962)	BD (1)	C 22 - C 27						
	(50.20%)	0.7085*	C 22	s(32.22%)p 2.10(67.75%)d 0.00(0.03%)	-0.0001	0.5676	-0.0058	-0.0042	-0.0003
					0.3719	0.0040	-0.0033	-0.6945	-0.0166
					0.0064	-0.2375	-0.0045	-0.0009	-0.0117
					-0.0025	0.0067	-0.0096	-0.0059	
	(49.80%)	0.7057*	C 27	s(26.68%)p 2.75(73.27%)d 0.00(0.06%)	0.0001	0.5165	0.0001	-0.0014	0.0005
					-0.3744	0.0052	0.0001	0.7310	0.0012
					-0.0007	0.2409	0.0001	-0.0030	-0.0156
					-0.0057	0.0105	-0.0102	-0.0090	
51.	(1.98062)	BD (1)	C 23 - C 24						
	(50.11%)	0.7079*	C 23	s(35.87%)p 1.79(64.07%)d 0.00(0.05%)	0.0000	0.5988	0.0135	0.0054	0.0002
					-0.3811	-0.0137	-0.0036	0.6705	0.0165
					0.0022	0.2117	-0.0198	-0.0137	-0.0142
					-0.0065	0.0133	-0.0091	-0.0040	
	(49.89%)	0.7064*	C 24	s(35.96%)p 1.78(63.97%)d 0.00(0.07%)	0.0000	0.5996	0.0058	-0.0020	-0.0002
					0.3654	0.0027	-0.0084	-0.6618	-0.0113
					0.0099	-0.2588	-0.0295	-0.0077	-0.0197

-0.0032 0.0067 -0.0111 -0.0102
 52. (1.97434) BD (1) C 23 - H 67
 (61.07%) 0.7815* C 23 s(28.23%)p 2.54(71.73%)d 0.00(0.04%)
 0.0004 -0.5312 0.0109 0.0014 -0.0001
 0.0058 -0.0002 0.0024 0.2188 -0.0095
 -0.0046 0.8179 -0.0147 -0.0124 0.0002
 -0.0002 -0.0087 0.0015 -0.0168
 (38.93%) 0.6239* H 67 s(99.94%)p 0.00(0.06%)
 -0.9997 0.0017 -0.0014 0.0015 -0.0058
 -0.0227
 53. (1.98089) BD (1) C 24 - C 25
 (49.76%) 0.7054* C 24 s(35.96%)p 1.78(63.97%)d 0.00(0.07%)
 0.0000 -0.5996 -0.0080 0.0020 0.0001
 0.0142 0.0136 0.0068 -0.2360 -0.0263
 -0.0060 -0.7633 -0.0136 0.0116 0.0014
 -0.0031 -0.0075 0.0015 -0.0243
 (50.24%) 0.7088* C 25 s(36.10%)p 1.77(63.85%)d 0.00(0.05%)
 0.0000 -0.6007 -0.0144 -0.0044 -0.0001
 0.0185 0.0138 0.0087 0.1930 -0.0170
 -0.0104 0.7744 0.0202 0.0033 0.0022
 0.0021 -0.0135 0.0033 -0.0176
 54. (1.66929) BD (2) C 24 - C 25
 (48.85%) 0.6989* C 24 s(0.00%)p 1.00(99.97%)d 0.00(0.03%)
 0.0000 0.0002 0.0031 -0.0021 0.0001
 0.8406 -0.0071 0.0095 0.5212 -0.0042
 0.0054 -0.1457 0.0013 -0.0018 0.0007
 0.0125 0.0084 0.0044 -0.0043
 (51.15%) 0.7152* C 25 s(0.00%)p 1.00(99.98%)d 0.00(0.02%)
 0.0001 0.0006 0.0011 -0.0012 -0.0003
 0.8397 -0.0082 0.0181 0.5214 -0.0050
 0.0106 -0.1495 -0.0003 -0.0033 -0.0059
 -0.0092 -0.0038 0.0092 0.0025
 55. (1.97747) BD (1) C 24 - H 66
 (60.90%) 0.7804* C 24 s(28.03%)p 2.57(71.94%)d 0.00(0.03%)
 -0.0004 0.5293 -0.0115 0.0035 0.0003
 -0.3984 0.0123 -0.0025 0.4827 -0.0132
 0.0020 -0.5719 0.0153 -0.0022 -0.0045
 0.0098 -0.0143 0.0006 0.0005
 (39.10%) 0.6253* H 66 s(99.95%)p 0.00(0.05%)
 0.9997 0.0014 0.0005 0.0106 -0.0132
 0.0158
 56. (1.97185) BD (1) C 25 - C 26
 (49.37%) 0.7026* C 25 s(35.74%)p 1.80(64.20%)d 0.00(0.06%)
 0.0001 0.5978 -0.0017 -0.0044 -0.0001
 0.3694 0.0031 -0.0060 -0.4342 0.0022
 0.0071 0.5626 0.0199 -0.0057 -0.0129
 0.0134 -0.0148 -0.0033 0.0060
 (50.63%) 0.7116* C 26 s(33.98%)p 1.94(65.97%)d 0.00(0.05%)
 -0.0002 0.5828 0.0099 0.0029 0.0001
 -0.3836 0.0037 -0.0077 0.4652 -0.0079
 0.0077 -0.5441 -0.0034 0.0000 -0.0110
 0.0119 -0.0127 -0.0023 0.0058
 57. (1.97514) BD (1) C 25 - H 65
 (60.81%) 0.7798* C 25 s(28.12%)p 2.55(71.84%)d 0.00(0.04%)
 -0.0004 0.5302 -0.0105 -0.0004 0.0001
 -0.3966 0.0066 0.0044 0.7080 -0.0112
 -0.0105 0.2439 -0.0108 -0.0055 -0.0129
 -0.0046 0.0083 -0.0079 -0.0066
 (39.19%) 0.6260* H 65 s(99.95%)p 0.00(0.05%)
 0.9997 0.0020 0.0013 0.0105 -0.0195
 -0.0069
 58. (1.96965) BD (1) C 26 - C 29
 (50.05%) 0.7075* C 26 s(31.88%)p 2.14(68.09%)d 0.00(0.03%)
 -0.0001 0.5645 -0.0074 -0.0031 -0.0002
 -0.0045 -0.0027 -0.0007 0.2195 0.0065
 -0.0004 0.7952 0.0162 -0.0049 -0.0013
 0.0000 0.0072 -0.0015 0.0161
 (49.95%) 0.7068* C 29 s(26.68%)p 2.75(73.27%)d 0.00(0.06%)
 0.0001 0.5165 0.0016 -0.0017 -0.0001
 0.0141 0.0025 -0.0022 -0.2394 -0.0010
 0.0018 -0.8217 0.0018 0.0030 -0.0001

-0.0005 0.0113 -0.0015 0.0206
 59. (1.97151) BD (1) C 27 - C 28
 (50.49%) 0.7105* C 27 s(25.54%)p 2.91(74.42%)d 0.00(0.04%)
 -0.0001 0.5053 -0.0112 0.0022 -0.0001
 -0.5593 0.0005 -0.0003 -0.6556 -0.0122
 -0.0041 0.0376 0.0039 0.0008 0.0172
 -0.0017 -0.0010 -0.0006 -0.0104
 (49.51%) 0.7037* C 28 s(29.27%)p 2.41(70.68%)d 0.00(0.04%)
 0.0004 0.5407 -0.0193 -0.0030 0.0001
 0.5458 0.0107 -0.0077 0.6389 0.0071
 -0.0132 -0.0176 -0.0006 0.0013 0.0179
 -0.0005 -0.0007 -0.0031 -0.0107
 60. (1.97918) BD (1) C 27 - C 62
 (51.43%) 0.7172* C 27 s(26.93%)p 2.71(73.03%)d 0.00(0.04%)
 0.0001 -0.5188 0.0115 -0.0033 0.0002
 -0.3401 -0.0136 -0.0031 -0.0651 0.0020
 0.0012 0.7811 -0.0053 0.0039 -0.0016
 0.0112 0.0022 -0.0017 -0.0153
 (48.57%) 0.6969* C 62 s(28.50%)p 2.51(71.45%)d 0.00(0.05%)
 -0.0003 -0.5334 0.0218 0.0029 0.0000
 0.3602 0.0039 -0.0095 0.0533 0.0064
 -0.0003 -0.7625 -0.0130 0.0123 -0.0009
 0.0153 0.0027 -0.0038 -0.0157
 61. (1.95937) BD (1) C 27 - H 84
 (61.62%) 0.7850* C 27 s(20.90%)p 3.78(79.05%)d 0.00(0.05%)
 -0.0002 0.4567 0.0204 -0.0043 -0.0001
 0.6559 -0.0047 -0.0021 -0.1755 0.0063
 -0.0063 0.5737 -0.0132 -0.0056 -0.0050
 0.0190 -0.0051 0.0092 0.0039
 (38.38%) 0.6195* H 84 s(99.96%)p 0.00(0.04%)
 0.9998 0.0050 0.0007 -0.0169 0.0024
 -0.0125
 62. (1.98583) BD (1) C 28 - H 90
 (60.77%) 0.7795* C 28 s(23.20%)p 3.31(76.76%)d 0.00(0.04%)
 0.0002 -0.4816 -0.0056 -0.0024 -0.0001
 -0.3911 0.0046 0.0039 0.7480 -0.0050
 0.0078 0.2347 -0.0020 -0.0009 0.0144
 0.0042 -0.0079 0.0098 0.0076
 (39.23%) 0.6264* H 90 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0016 -0.0002 0.0112 -0.0159
 -0.0062
 63. (1.98733) BD (1) C 28 - H 91
 (60.46%) 0.7776* C 28 s(23.87%)p 3.19(76.08%)d 0.00(0.05%)
 0.0000 -0.4885 -0.0040 -0.0014 0.0001
 0.3302 -0.0010 0.0058 0.1091 0.0013
 0.0084 -0.7999 0.0030 0.0005 0.0004
 0.0132 0.0049 -0.0032 -0.0169
 (39.54%) 0.6288* H 91 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0016 0.0000 -0.0060 -0.0017
 0.0197
 64. (1.98896) BD (1) C 28 - H 92
 (60.68%) 0.7790* C 28 s(23.66%)p 3.23(76.30%)d 0.00(0.05%)
 0.0000 -0.4863 -0.0077 0.0005 0.0000
 0.6627 0.0002 0.0075 -0.1397 0.0033
 0.0065 0.5516 -0.0033 0.0004 0.0055
 -0.0170 0.0029 -0.0109 -0.0023
 (39.32%) 0.6270* H 92 s(99.95%)p 0.00(0.05%)
 -0.9998 -0.0023 -0.0002 -0.0155 0.0051
 -0.0144
 65. (1.97625) BD (1) C 29 - C 30
 (50.69%) 0.7120* C 29 s(26.01%)p 2.84(73.95%)d 0.00(0.04%)
 -0.0001 0.5098 -0.0125 0.0007 0.0000
 -0.8057 -0.0033 -0.0026 0.0250 -0.0086
 0.0004 0.2992 0.0115 0.0030 -0.0012
 -0.0098 0.0003 0.0155 -0.0063
 (49.31%) 0.7022* C 30 s(29.30%)p 2.41(70.65%)d 0.00(0.05%)
 0.0003 0.5410 -0.0190 -0.0027 0.0001
 0.7841 0.0125 -0.0134 -0.0260 -0.0014
 -0.0007 -0.3011 -0.0002 0.0070 -0.0006
 -0.0124 0.0001 0.0161 -0.0065
 66. (1.97478) BD (1) C 29 - C 61

	(51.28%)	0.7161*	C	29	s(26.46%)p 2.78(73.50%)d 0.00(0.04%)				
					-0.0001 0.5143 -0.0111 0.0012 0.0001				
					0.3898 0.0116 0.0009 0.7555 -0.0018				
					0.0055 0.1098 0.0075 0.0042 0.0130				
					0.0013 0.0030 -0.0098 -0.0089				
	(48.72%)	0.6980*	C	61	s(28.85%)p 2.46(71.10%)d 0.00(0.05%)				
					0.0003 0.5370 -0.0135 0.0007 -0.0005				
					-0.3908 -0.0054 0.0080 -0.7377 -0.0078				
					0.0073 -0.1179 0.0041 0.0017 0.0154				
					0.0026 0.0043 -0.0098 -0.0100				
67.	(1.96477)		BD (1)	C	29 - H 83				
	(61.05%)	0.7813*	C	29	s(20.90%)p 3.78(79.05%)d 0.00(0.05%)				
					-0.0002 0.4567 0.0201 -0.0004 0.0001				
					0.4447 -0.0057 -0.0051 -0.6083 0.0122				
					0.0052 0.4717 -0.0062 0.0050 -0.0137				
					0.0105 -0.0147 -0.0046 -0.0018				
	(38.95%)	0.6241*	H	83	s(99.96%)p 0.00(0.04%)				
					0.9998 0.0054 0.0001 -0.0113 0.0145				
					-0.0104				
68.	(1.98638)		BD (1)	C	30 - H 93				
	(60.74%)	0.7794*	C	30	s(23.29%)p 3.29(76.67%)d 0.00(0.04%)				
					-0.0001 0.4826 0.0052 0.0019 0.0002				
					0.0011 -0.0026 -0.0077 0.2021 -0.0017				
					-0.0005 0.8519 -0.0056 0.0047 0.0000				
					0.0001 0.0081 -0.0019 0.0193				
	(39.26%)	0.6265*	H	93	s(99.96%)p 0.00(0.04%)				
					0.9998 0.0015 0.0002 -0.0020 -0.0050				
					-0.0203				
69.	(1.98825)		BD (1)	C	30 - H 94				
	(60.66%)	0.7789*	C	30	s(23.75%)p 3.21(76.20%)d 0.00(0.05%)				
					0.0000 0.4873 0.0067 -0.0002 -0.0001				
					-0.4764 -0.0046 -0.0087 0.6003 -0.0031				
					0.0010 -0.4178 0.0031 0.0025 -0.0138				
					0.0106 -0.0112 -0.0039 -0.0031				
	(39.34%)	0.6272*	H	94	s(99.95%)p 0.00(0.05%)				
					0.9998 0.0022 0.0002 0.0107 -0.0148				
					0.0113				
70.	(1.98830)		BD (1)	C	30 - H 95				
	(60.73%)	0.7793*	C	30	s(23.66%)p 3.22(76.29%)d 0.00(0.05%)				
					-0.0001 0.4864 0.0049 0.0014 -0.0001				
					-0.3962 -0.0009 -0.0082 -0.7729 0.0056				
					-0.0006 -0.0916 0.0009 0.0042 0.0150				
					0.0031 0.0031 -0.0112 -0.0091				
	(39.27%)	0.6267*	H	95	s(99.96%)p 0.00(0.04%)				
					0.9998 0.0012 0.0001 0.0092 0.0184				
					0.0025				
71.	(1.96778)		BD (1)	C	31 - C 32				
	(50.61%)	0.7114*	C	31	s(36.78%)p 1.72(63.17%)d 0.00(0.05%)				
					-0.0002 0.6065 -0.0017 -0.0032 0.0001				
					0.0389 0.0034 0.0005 0.4016 -0.0020				
					-0.0015 0.6847 0.0088 0.0028 -0.0012				
					0.0011 0.0166 -0.0036 0.0135				
	(49.39%)	0.7028*	C	32	s(33.82%)p 1.96(66.13%)d 0.00(0.05%)				
					0.0000 0.5815 0.0025 -0.0007 0.0000				
					-0.0788 0.0101 -0.0023 -0.3802 -0.0088				
					0.0001 -0.7143 0.0021 0.0014 -0.0004				
					0.0025 0.0176 -0.0042 0.0140				
72.	(1.96880)		BD (1)	C	31 - C 36				
	(50.73%)	0.7122*	C	31	s(36.98%)p 1.70(62.97%)d 0.00(0.05%)				
					-0.0002 0.6081 -0.0016 -0.0025 0.0001				
					0.5173 0.0061 0.0000 -0.5489 -0.0054				
					-0.0031 -0.2464 0.0054 0.0025 -0.0169				
					-0.0061 0.0095 -0.0022 -0.0070				
	(49.27%)	0.7020*	C	36	s(33.78%)p 1.96(66.16%)d 0.00(0.05%)				
					0.0000 0.5812 0.0025 -0.0001 0.0000				
					-0.5450 0.0036 -0.0022 0.5690 0.0023				
					-0.0011 0.2015 0.0133 -0.0006 -0.0186				
					-0.0066 0.0093 -0.0008 -0.0077				
73.	(1.65932)		BD (2)	C	31 - C 36				
	(54.31%)	0.7370*	C	31	s(0.01%)p99.99(99.97%)d 1.31(0.02%)				
					0.0002 0.0082 0.0087 -0.0009 -0.0001				

					0.5306	-0.0061	-0.0063	0.7140	-0.0026
					-0.0042	-0.4562	0.0007	0.0033	0.0013
					-0.0047	0.0046	0.0119	0.0012	
	(45.69%)	0.6759*	C 36	s (0.00%)p 1.00(99.95%)d 0.00(0.05%)	0.0000	0.0004	0.0057	-0.0010	-0.0001
					0.5517	-0.0041	0.0008	0.6923	-0.0101
					-0.0043	-0.4644	0.0046	0.0005	0.0017
					0.0118	0.0024	-0.0155	-0.0107	
74.	(1.97272)	BD (1)	C 32 - C 33						
	(50.56%)	0.7110*	C 32	s (34.05%)p 1.94(65.90%)d 0.00(0.05%)	-0.0001	0.5834	0.0094	0.0040	0.0001
					0.6245	0.0001	0.0038	-0.1621	-0.0065
					0.0023	0.4925	-0.0078	0.0093	-0.0081
					0.0169	-0.0031	0.0103	0.0005	
	(49.44%)	0.7032*	C 33	s (35.75%)p 1.80(64.19%)d 0.00(0.06%)	0.0001	0.5979	-0.0011	-0.0044	-0.0001
					-0.6298	-0.0154	0.0076	0.1843	0.0134
					-0.0007	-0.4591	0.0018	0.0081	-0.0085
					0.0198	-0.0030	0.0117	0.0013	
75.	(1.64228)	BD (2)	C 32 - C 33						
	(48.38%)	0.6956*	C 32	s (0.01%)p 1.00(99.96%)d 0.00(0.03%)	0.0001	0.0002	0.0071	-0.0021	-0.0001
					0.5350	-0.0046	-0.0012	0.7197	-0.0022
					0.0042	-0.4419	0.0039	0.0014	0.0053
					-0.0052	0.0062	0.0150	-0.0017	
	(51.62%)	0.7184*	C 33	s (0.00%)p 1.00(99.97%)d 0.00(0.03%)	0.0001	0.0016	0.0012	-0.0001	-0.0001
					0.5376	-0.0028	0.0092	0.7132	-0.0032
					0.0113	-0.4491	0.0015	-0.0089	-0.0083
					-0.0035	-0.0097	-0.0037	0.0113	
76.	(1.97001)	BD (1)	C 32 - C 37						
	(50.23%)	0.7087*	C 32	s (32.10%)p 2.11(67.87%)d 0.00(0.03%)	-0.0001	0.5665	-0.0064	-0.0038	0.0000
					-0.5628	-0.0103	0.0042	0.5572	0.0122
					-0.0048	0.2264	0.0063	-0.0002	-0.0144
					-0.0047	0.0061	0.0010	-0.0064	
	(49.77%)	0.7055*	C 37	s (26.54%)p 2.77(73.40%)d 0.00(0.06%)	0.0001	0.5152	0.0012	-0.0021	-0.0001
					0.5819	-0.0019	-0.0024	-0.5808	0.0006
					0.0011	-0.2409	-0.0016	0.0035	-0.0189
					-0.0080	0.0079	-0.0002	-0.0090	
77.	(1.98090)	BD (1)	C 33 - C 34						
	(50.22%)	0.7086*	C 33	s (36.06%)p 1.77(63.89%)d 0.00(0.05%)	0.0000	0.6003	0.0142	0.0045	0.0000
					0.5534	0.0226	0.0069	-0.5416	-0.0063
					0.0020	-0.1955	0.0178	0.0118	-0.0170
					-0.0080	0.0113	-0.0022	-0.0056	
	(49.78%)	0.7056*	C 34	s (35.89%)p 1.78(64.04%)d 0.00(0.07%)	0.0000	0.5990	0.0074	-0.0018	-0.0001
					-0.5213	0.0002	0.0098	0.5587	0.0181
					-0.0052	0.2351	0.0270	0.0075	-0.0221
					-0.0044	0.0059	0.0021	-0.0108	
78.	(1.97515)	BD (1)	C 33 - H 70						
	(60.92%)	0.7805*	C 33	s (28.16%)p 2.55(71.80%)d 0.00(0.04%)	-0.0004	0.5306	-0.0109	-0.0005	0.0001
					0.0816	0.0035	0.0002	0.4036	-0.0098
					-0.0078	0.7403	-0.0129	-0.0104	0.0010
					0.0026	0.0140	-0.0038	0.0120	
	(39.08%)	0.6251*	H 70	s (99.95%)p 0.00(0.05%)	0.9997	0.0019	0.0013	-0.0021	-0.0114
					-0.0202				
79.	(1.98086)	BD (1)	C 34 - C 35						
	(49.88%)	0.7062*	C 34	s (36.02%)p 1.77(63.92%)d 0.00(0.06%)	0.0000	0.6001	0.0067	-0.0022	-0.0002
					-0.0528	0.0196	0.0070	-0.4018	-0.0227
					-0.0036	-0.6883	-0.0117	0.0110	0.0021
					0.0078	0.0170	-0.0027	0.0169	
	(50.12%)	0.7080*	C 35	s (35.99%)p 1.78(63.96%)d 0.00(0.05%)	0.0000	0.5997	0.0141	0.0044	0.0001
					0.0989	0.0230	0.0088	0.3787	-0.0068
					-0.0087	0.6967	0.0182	0.0056	-0.0012

				-0.3100	-0.0081	0.0025	-0.7838	-0.0066
				0.0090	0.0450	0.0031	-0.0042	0.0125
				-0.0009	-0.0026	-0.0133	-0.0107	
87.	(1.96378)	BD (1) C	37 - H 85					
	(61.15%)		0.7820* C 37	s(20.87%)	p 3.79(79.08%)	d 0.00(0.05%)		
				0.0002	-0.4564	-0.0202	0.0004	-0.0001
				0.6842	-0.0102	0.0026	0.0463	-0.0035
				-0.0031	0.5659	-0.0096	-0.0078	-0.0018
				-0.0195	-0.0016	-0.0118	-0.0025	
	(38.85%)		0.6233* H 85	s(99.95%)	p 0.00(0.05%)			
				-0.9998	-0.0055	-0.0003	-0.0160	-0.0013
				-0.0141				
88.	(1.98608)	BD (1) C	38 - H 105					
	(60.86%)		0.7801* C 38	s(23.26%)	p 3.30(76.70%)	d 0.00(0.04%)		
				-0.0001	0.4823	0.0050	0.0014	0.0002
				-0.6347	0.0039	-0.0046	0.5690	-0.0053
				-0.0016	0.2004	0.0007	0.0077	-0.0169
				-0.0055	0.0062	0.0016	-0.0093	
	(39.14%)		0.6256* H 105	s(99.96%)	p 0.00(0.04%)			
				0.9998	0.0013	0.0002	0.0151	-0.0144
				-0.0031				
89.	(1.98876)	BD (1) C	38 - H 106					
	(60.83%)		0.7800* C 38	s(23.69%)	p 3.22(76.26%)	d 0.00(0.04%)		
				-0.0001	0.4867	0.0057	0.0014	-0.0001
				-0.3371	0.0018	-0.0046	-0.8043	0.0049
				-0.0022	0.0449	0.0034	0.0073	0.0122
				0.0001	-0.0020	-0.0124	-0.0117	
	(39.17%)		0.6258* H 106	s(99.96%)	p 0.00(0.04%)			
				0.9998	0.0012	0.0001	0.0076	0.0195
				-0.0007				
90.	(1.98837)	BD (1) C	38 - H 107					
	(60.57%)		0.7782* C 38	s(23.75%)	p 3.21(76.20%)	d 0.00(0.05%)		
				0.0000	0.4873	0.0061	-0.0002	-0.0001
				0.6228	-0.0046	-0.0024	0.0677	-0.0027
				-0.0014	0.6078	0.0039	0.0086	0.0015
				0.0190	0.0026	0.0083	0.0042	
	(39.43%)		0.6280* H 107	s(99.95%)	p 0.00(0.05%)			
				0.9998	0.0023	0.0002	-0.0158	-0.0015
				-0.0142				
91.	(1.97424)	BD (1) C	39 - C 40					
	(50.69%)		0.7120* C 39	s(25.93%)	p 2.85(74.03%)	d 0.00(0.04%)		
				-0.0001	0.5091	-0.0127	0.0008	0.0000
				-0.1679	-0.0122	-0.0013	-0.8291	-0.0066
				-0.0029	0.1563	-0.0056	-0.0017	0.0059
				-0.0010	-0.0074	-0.0154	-0.0076	
	(49.31%)		0.7022* C 40	s(29.25%)	p 2.42(70.71%)	d 0.00(0.05%)		
				0.0003	0.5405	-0.0192	-0.0027	0.0001
				0.1631	0.0001	-0.0048	0.8120	0.0118
				-0.0144	-0.1443	-0.0058	0.0009	0.0074
				-0.0012	-0.0062	-0.0163	-0.0097	
92.	(1.97484)	BD (1) C	39 - C 56					
	(51.57%)		0.7181* C 39	s(26.76%)	p 2.74(73.21%)	d 0.00(0.03%)		
				-0.0001	0.5172	-0.0107	0.0016	0.0001
				0.6945	-0.0043	0.0029	0.0842	0.0075
				-0.0041	-0.4924	-0.0115	-0.0055	0.0029
				-0.0144	-0.0013	0.0107	-0.0012	
	(48.43%)		0.6959* C 56	s(28.64%)	p 2.49(71.31%)	d 0.00(0.05%)		
				0.0003	0.5350	-0.0137	-0.0009	-0.0005
				-0.6749	-0.0104	0.0077	-0.0911	-0.0043
				0.0040	0.4991	0.0006	-0.0072	0.0036
				-0.0176	-0.0028	0.0117	0.0006	
93.	(1.96388)	BD (1) C	39 - H 86					
	(61.33%)		0.7831* C 39	s(20.93%)	p 3.78(79.02%)	d 0.00(0.05%)		
				0.0002	-0.4570	-0.0204	0.0005	-0.0001
				0.6937	-0.0148	-0.0011	-0.3371	0.0045
				0.0086	0.4416	-0.0045	0.0041	0.0119
				-0.0152	0.0071	-0.0093	0.0035	
	(38.67%)		0.6218* H 86	s(99.95%)	p 0.00(0.05%)			
				-0.9998	-0.0050	-0.0003	-0.0161	0.0093
				-0.0107				
94.	(1.98600)	BD (1) C	40 - H 99					

	(60.87%)	0.7802*	C	40	s(23.33%)p 3.28(76.62%)d 0.00(0.04%)				
					-0.0002 0.4830 0.0052 0.0020 0.0001				
					-0.1246 0.0003 -0.0030 -0.4299 0.0014				
					-0.0085 -0.7522 0.0064 0.0003 0.0022				
					0.0044 0.0157 -0.0032 0.0126				
	(39.13%)	0.6255*	H	99	s(99.96%)p 0.00(0.04%)				
					0.9998 0.0015 0.0002 0.0026 0.0085				
					0.0190				
95. (1.98848)	BD (1)		C	40 - H 100					
	(60.59%)	0.7784*	C	40	s(23.74%)p 3.21(76.21%)d 0.00(0.05%)				
					0.0000 0.4872 0.0070 -0.0002 -0.0001				
					0.6620 -0.0040 -0.0009 -0.3821 -0.0043				
					-0.0090 0.4216 0.0002 0.0023 -0.0130				
					0.0130 -0.0075 0.0076 -0.0021				
	(39.41%)	0.6278*	H	100	s(99.95%)p 0.00(0.05%)				
					0.9998 0.0023 0.0002 -0.0169 0.0084				
					-0.0106				
96. (1.98843)	BD (1)		C	40 - H 101					
	(60.68%)	0.7790*	C	40	s(23.68%)p 3.22(76.28%)d 0.00(0.05%)				
					0.0001 -0.4866 -0.0049 -0.0013 0.0001				
					0.7204 -0.0044 0.0028 0.0929 0.0021				
					0.0090 -0.4848 0.0023 -0.0007 -0.0031				
					0.0160 0.0020 -0.0134 -0.0006				
	(39.32%)	0.6271*	H	101	s(99.96%)p 0.00(0.04%)				
					-0.9998 -0.0013 -0.0001 -0.0172 -0.0018				
					0.0115				
97. (1.75785)	BD (1)		C	41 - C 42					
	(44.52%)	0.6672*	C	41	s(37.96%)p 1.30(49.31%)d 0.34(12.73%)				
					0.0000 -0.6133 -0.0553 -0.0197 -0.0027				
					0.1738 -0.0779 0.0533 0.3260 0.0165				
					-0.0382 0.5291 -0.2482 0.0670 -0.1555				
					0.0408 -0.2973 -0.0180 -0.1130				
	(55.48%)	0.7449*	C	42	s(33.58%)p 1.98(66.37%)d 0.00(0.05%)				
					0.0000 -0.5794 -0.0030 0.0010 0.0000				
					-0.1977 -0.0101 0.0001 -0.3551 0.0092				
					-0.0019 -0.7059 -0.0035 0.0009 -0.0035				
					-0.0108 -0.0139 0.0024 -0.0147				
98. (1.74502)	BD (1)		C	41 - C 46					
	(43.76%)	0.6615*	C	41	s(36.17%)p 1.39(50.23%)d 0.38(13.60%)				
					-0.0003 0.5978 -0.0609 -0.0258 -0.0025				
					0.4202 -0.0918 0.0612 -0.3387 0.0307				
					-0.0408 0.3585 -0.2513 0.0670 -0.1684				
					0.0685 -0.3050 -0.0176 -0.0983				
	(56.24%)	0.7499*	C	46	s(34.19%)p 1.92(65.76%)d 0.00(0.05%)				
					0.0000 0.5847 0.0020 -0.0002 0.0001				
					-0.4969 0.0013 0.0017 0.3954 -0.0085				
					0.0026 -0.5041 -0.0105 0.0009 -0.0112				
					0.0162 -0.0106 0.0022 0.0038				
99. (1.64949)	BD (2)		C	41 - C 46					
	(52.75%)	0.7263*	C	41	s(0.04%)p99.99(98.66%)d31.71(1.30%)				
					-0.0001 -0.0118 0.0141 0.0085 0.0011				
					0.8228 0.0283 -0.0244 0.3815 -0.0045				
					0.0080 -0.3956 0.0759 -0.0186 0.0462				
					-0.0154 0.0984 0.0174 0.0260				
	(47.25%)	0.6874*	C	46	s(0.00%)p 1.00(99.95%)d 0.00(0.05%)				
					0.0000 0.0021 -0.0037 0.0023 0.0000				
					0.7900 -0.0074 -0.0041 0.4143 -0.0014				
					-0.0003 -0.4514 0.0046 -0.0002 -0.0022				
					-0.0093 -0.0084 -0.0097 0.0141				
100. (1.97345)	BD (1)		C	42 - C 43					
	(50.39%)	0.7099*	C	42	s(34.02%)p 1.94(65.93%)d 0.00(0.05%)				
					-0.0001 0.5832 0.0088 0.0050 0.0002				
					0.2753 0.0041 0.0005 -0.7415 0.0016				
					-0.0070 -0.1828 0.0102 -0.0089 -0.0136				
					-0.0013 0.0067 -0.0129 -0.0084				
	(49.61%)	0.7043*	C	43	s(35.87%)p 1.79(64.06%)d 0.00(0.06%)				
					0.0001 0.5989 -0.0004 -0.0039 -0.0003				
					-0.3007 -0.0136 0.0026 0.7243 0.0129				
					-0.0092 0.1581 -0.0100 -0.0053 -0.0146				
					-0.0012 0.0090 -0.0152 -0.0090				
101. (1.63619)	BD (2)		C	42 - C 43					

	(47.83%)	0.6916*	C	42	s(0.00%)p 1.00(99.96%)d 0.00(0.04%)				
					-0.0002 0.0002 -0.0028 0.0010 0.0001				
					0.8064 -0.0066 0.0027 0.4056 -0.0017				
					-0.0021 -0.4299 0.0017 -0.0012 -0.0069				
					-0.0004 0.0089 0.0148 -0.0045				
	(52.17%)	0.7223*	C	43	s(0.00%)p 1.00(99.97%)d 0.00(0.03%)				
					0.0000 0.0023 0.0003 -0.0005 0.0002				
					0.7924 -0.0040 0.0130 0.4229 -0.0035				
					0.0087 -0.4389 0.0043 -0.0083 0.0107				
					0.0088 -0.0018 -0.0073 -0.0083				
102.	(1.96988)		BD (1)	C 42 - C 47					
	(50.60%)	0.7114*	C	42	s(32.37%)p 2.09(67.60%)d 0.00(0.03%)				
					-0.0001 0.5689 -0.0064 -0.0048 -0.0002				
					-0.4840 -0.0068 0.0034 0.3985 0.0093				
					-0.0061 -0.5316 -0.0132 0.0034 -0.0092				
					0.0114 -0.0093 -0.0001 0.0027				
	(49.40%)	0.7028*	C	47	s(26.33%)p 2.80(73.61%)d 0.00(0.06%)				
					0.0002 0.5132 -0.0005 0.0010 0.0007				
					0.4936 -0.0042 -0.0002 -0.4257 0.0009				
					-0.0034 0.5579 0.0015 0.0008 -0.0116				
					0.0157 -0.0134 0.0027 0.0026				
103.	(1.98096)		BD (1)	C 43 - C 44					
	(50.07%)	0.7076*	C	43	s(35.86%)p 1.79(64.08%)d 0.00(0.05%)				
					0.0000 -0.5987 -0.0137 -0.0045 -0.0002				
					-0.4855 -0.0113 -0.0009 0.4007 0.0269				
					0.0107 -0.4934 0.0064 0.0094 0.0091				
					-0.0170 0.0093 -0.0036 -0.0064				
	(49.93%)	0.7066*	C	44	s(35.97%)p 1.78(63.96%)d 0.00(0.07%)				
					0.0000 -0.5997 -0.0065 0.0023 0.0001				
					0.4876 0.0109 -0.0078 -0.3579 0.0108				
					0.0123 0.5220 0.0287 0.0016 0.0159				
					-0.0157 0.0125 -0.0004 0.0005				
104.	(1.97475)		BD (1)	C 43 - H 75					
	(61.07%)	0.7815*	C	43	s(28.23%)p 2.54(71.73%)d 0.00(0.04%)				
					0.0004 -0.5312 0.0110 0.0007 -0.0001				
					0.2119 -0.0050 -0.0050 0.3668 -0.0028				
					-0.0041 0.7331 -0.0148 -0.0114 -0.0034				
					-0.0074 -0.0121 0.0022 -0.0121				
	(38.93%)	0.6239*	H	75	s(99.94%)p 0.00(0.06%)				
					-0.9997 0.0021 -0.0014 -0.0069 -0.0098				
					-0.0202				
105.	(1.98096)		BD (1)	C 44 - C 45					
	(49.79%)	0.7056*	C	44	s(36.00%)p 1.78(63.94%)d 0.00(0.07%)				
					0.0000 0.5999 0.0077 -0.0018 -0.0001				
					0.2211 0.0194 0.0052 0.3173 -0.0121				
					-0.0121 0.6989 0.0237 -0.0060 0.0028				
					0.0082 0.0189 -0.0057 0.0138				
	(50.21%)	0.7086*	C	45	s(36.09%)p 1.77(63.86%)d 0.00(0.05%)				
					0.0000 0.6005 0.0145 0.0043 0.0000				
					-0.1901 0.0105 0.0087 -0.3628 -0.0269				
					-0.0111 -0.6854 -0.0074 0.0027 0.0029				
					0.0122 0.0110 -0.0004 0.0153				
106.	(1.67441)		BD (2)	C 44 - C 45					
	(48.91%)	0.6994*	C	44	s(0.00%)p 1.00(99.97%)d 0.00(0.03%)				
					0.0000 0.0020 0.0000 0.0013 0.0002				
					0.7891 -0.0075 0.0086 0.4240 -0.0036				
					0.0035 -0.4439 0.0042 -0.0045 0.0088				
					0.0092 -0.0004 -0.0054 -0.0083				
	(51.09%)	0.7148*	C	45	s(0.00%)p 1.00(99.98%)d 0.00(0.02%)				
					0.0000 0.0006 0.0004 0.0008 0.0003				
					0.7888 -0.0079 0.0174 0.4249 -0.0044				
					0.0092 -0.4432 0.0044 -0.0094 -0.0024				
					-0.0065 -0.0058 -0.0069 0.0101				
107.	(1.97752)		BD (1)	C 44 - H 74					
	(60.87%)	0.7802*	C	44	s(27.98%)p 2.57(71.99%)d 0.00(0.03%)				
					0.0004 -0.5288 0.0120 -0.0037 -0.0003				
					-0.2992 0.0092 -0.0021 0.7682 -0.0213				
					0.0037 0.1992 -0.0055 0.0010 0.0075				
					0.0069 -0.0052 0.0098 0.0099				
	(39.13%)	0.6255*	H	74	s(99.95%)p 0.00(0.05%)				
					-0.9997 -0.0015 -0.0005 0.0081 -0.0208				

-0.0056

108. (1.97278) BD (1) C 45 - C 46
 (49.52%) 0.7037* C 45 s(35.81%)p 1.79(64.13%)d 0.00(0.06%)
 0.0001 0.5984 -0.0015 -0.0044 -0.0001
 -0.2685 0.0021 0.0054 0.7226 0.0119
 -0.0097 0.2157 0.0166 -0.0008 -0.0144
 -0.0012 0.0096 -0.0151 -0.0088
 (50.48%) 0.7105* C 46 s(33.92%)p 1.95(66.03%)d 0.00(0.05%)
 -0.0001 0.5823 0.0105 0.0032 0.0001
 0.2821 -0.0061 0.0072 -0.7397 0.0039
 -0.0067 -0.1828 -0.0064 0.0029 -0.0123
 -0.0015 0.0091 -0.0133 -0.0076

109. (1.97534) BD (1) C 45 - H 73
 (60.77%) 0.7795* C 45 s(28.08%)p 2.56(71.89%)d 0.00(0.04%)
 -0.0004 0.5298 -0.0108 -0.0003 0.0001
 0.5182 -0.0097 -0.0075 -0.4053 0.0025
 0.0044 0.5345 -0.0133 -0.0097 -0.0095
 0.0131 -0.0096 0.0024 0.0022
 (39.23%) 0.6264* H 73 s(99.95%)p 0.00(0.05%)
 0.9997 0.0022 0.0013 -0.0141 0.0109
 -0.0148

110. (1.96959) BD (1) C 46 - C 49
 (50.02%) 0.7072* C 46 s(31.86%)p 2.14(68.11%)d 0.00(0.03%)
 -0.0001 0.5644 -0.0068 -0.0036 -0.0001
 0.2210 0.0078 -0.0009 0.3522 0.0054
 -0.0021 0.7127 0.0147 -0.0044 0.0028
 0.0079 0.0115 -0.0023 0.0105
 (49.98%) 0.7070* C 49 s(26.68%)p 2.75(73.27%)d 0.00(0.06%)
 0.0001 0.5165 0.0013 -0.0016 -0.0001
 -0.2369 -0.0022 0.0021 -0.3571 0.0024
 0.0001 -0.7410 0.0012 0.0030 0.0047
 0.0095 0.0147 -0.0019 0.0149

111. (1.96910) BD (1) C 47 - C 48
 (50.59%) 0.7113* C 47 s(25.46%)p 2.93(74.50%)d 0.00(0.04%)
 -0.0001 0.5044 -0.0108 0.0010 -0.0002
 0.4860 -0.0006 0.0000 0.4814 0.0109
 0.0039 -0.5263 -0.0032 -0.0033 0.0111
 -0.0120 -0.0111 0.0025 0.0007
 (49.41%) 0.7029* C 48 s(29.04%)p 2.44(70.91%)d 0.00(0.04%)
 0.0004 0.5385 -0.0197 -0.0031 0.0001
 -0.4637 -0.0097 0.0063 -0.4668 -0.0057
 0.0107 0.5252 0.0065 -0.0089 0.0111
 -0.0124 -0.0129 -0.0003 0.0017

112. (1.97975) BD (1) C 47 - C 57
 (51.04%) 0.7144* C 47 s(26.39%)p 2.79(73.57%)d 0.00(0.04%)
 -0.0001 0.5136 -0.0115 0.0020 -0.0004
 -0.4881 -0.0114 -0.0033 -0.5405 0.0046
 -0.0014 -0.4528 0.0053 -0.0020 0.0124
 0.0097 0.0115 -0.0027 -0.0006
 (48.96%) 0.6997* C 57 s(29.01%)p 2.45(70.94%)d 0.00(0.05%)
 0.0002 0.5382 -0.0202 -0.0029 0.0000
 0.5103 0.0053 -0.0120 0.4975 0.0106
 -0.0068 0.4483 0.0050 -0.0073 0.0139
 0.0123 0.0117 0.0007 -0.0021

113. (1.95741) BD (1) C 47 - H 80
 (63.35%) 0.7959* C 47 s(21.87%)p 3.57(78.08%)d 0.00(0.05%)
 0.0001 -0.4673 -0.0194 0.0039 0.0000
 0.5302 -0.0013 -0.0029 -0.5421 0.0107
 0.0021 -0.4533 0.0094 0.0071 0.0137
 0.0119 -0.0123 0.0010 0.0018
 (36.65%) 0.6054* H 80 s(99.95%)p 0.00(0.05%)
 -0.9997 0.0068 -0.0009 -0.0164 0.0118
 0.0100

114. (1.98559) BD (1) C 48 - H 126
 (60.94%) 0.7807* C 48 s(23.30%)p 3.29(76.66%)d 0.00(0.04%)
 0.0001 -0.4827 -0.0059 -0.0020 -0.0001
 0.5128 -0.0049 -0.0032 -0.4359 0.0020
 -0.0064 0.5599 -0.0050 0.0055 0.0111
 -0.0139 0.0110 -0.0012 -0.0022
 (39.06%) 0.6250* H 126 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0016 -0.0002 -0.0143 0.0089

-0.0115

115. (1.98706) BD (1) C 48 - H 127
(60.67%) 0.7789* C 48 s(24.01%)p 3.16(75.94%)d 0.00(0.05%)
0.0000 0.4899 0.0038 0.0015 -0.0001
0.4783 -0.0029 0.0042 0.5823 -0.0008
0.0058 0.4376 -0.0025 -0.0072 0.0126
0.0115 0.0138 -0.0024 -0.0038
(39.33%) 0.6272* H 127 s(99.96%)p 0.00(0.04%)
0.9998 0.0016 0.0000 -0.0094 -0.0139
-0.0122

116. (1.98982) BD (1) C 48 - H 128
(60.43%) 0.7774* C 48 s(23.65%)p 3.23(76.31%)d 0.00(0.05%)
-0.0001 0.4862 0.0077 0.0000 0.0000
0.5408 0.0011 0.0065 -0.5023 0.0043
0.0042 -0.4672 0.0000 -0.0061 -0.0135
-0.0111 0.0119 0.0021 -0.0015
(39.57%) 0.6290* H 128 s(99.95%)p 0.00(0.05%)
0.9998 0.0023 0.0002 -0.0126 0.0141
0.0110

117. (1.97532) BD (1) C 49 - C 50
(50.69%) 0.7120* C 49 s(25.91%)p 2.86(74.05%)d 0.00(0.04%)
-0.0001 0.5089 -0.0121 0.0007 0.0000
0.8477 0.0045 0.0039 0.1466 0.0136
0.0017 0.0129 0.0021 0.0017 0.0045
-0.0004 0.0006 0.0162 -0.0095
(49.31%) 0.7022* C 50 s(29.25%)p 2.42(70.71%)d 0.00(0.05%)
0.0003 0.5405 -0.0189 -0.0035 0.0001
-0.8273 -0.0121 0.0145 -0.1479 0.0011
0.0049 -0.0197 0.0025 0.0008 0.0068
0.0005 0.0002 0.0170 -0.0107

118. (1.97545) BD (1) C 49 - C 58
(51.06%) 0.7146* C 49 s(26.33%)p 2.80(73.64%)d 0.00(0.04%)
-0.0001 0.5130 -0.0114 0.0010 0.0001
-0.2341 -0.0099 0.0001 -0.4865 0.0074
-0.0017 0.6668 0.0074 0.0067 0.0055
-0.0063 -0.0149 -0.0048 0.0069
(48.94%) 0.6996* C 58 s(29.00%)p 2.45(70.96%)d 0.00(0.05%)
0.0003 0.5383 -0.0139 0.0007 -0.0004
0.2375 0.0047 -0.0061 0.4655 0.0082
-0.0040 -0.6605 -0.0035 0.0083 0.0059
-0.0087 -0.0158 -0.0042 0.0090

119. (1.96417) BD (1) C 49 - H 79
(61.47%) 0.7840* C 49 s(21.13%)p 3.73(78.82%)d 0.00(0.05%)
-0.0002 0.4592 0.0199 -0.0003 0.0001
-0.4117 0.0059 0.0063 0.7829 -0.0133
-0.0022 0.0741 0.0010 0.0059 -0.0162
-0.0014 0.0028 -0.0113 -0.0113
(38.53%) 0.6207* H 79 s(99.95%)p 0.00(0.05%)
0.9998 0.0054 0.0001 0.0108 -0.0183
-0.0007

120. (1.98629) BD (1) C 50 - H 129
(60.74%) 0.7793* C 50 s(23.28%)p 3.29(76.68%)d 0.00(0.04%)
-0.0001 0.4824 0.0052 0.0022 0.0001
0.2253 0.0008 0.0084 0.4023 -0.0020
0.0031 0.7444 -0.0062 0.0012 0.0041
0.0082 0.0138 -0.0034 0.0125
(39.26%) 0.6266* H 129 s(99.96%)p 0.00(0.04%)
0.9998 0.0015 0.0002 -0.0034 -0.0096
-0.0183

121. (1.98839) BD (1) C 50 - H 130
(60.58%) 0.7783* C 50 s(23.73%)p 3.21(76.22%)d 0.00(0.05%)
0.0000 0.4871 0.0069 0.0001 -0.0001
0.4523 0.0047 0.0092 -0.7450 0.0039
0.0006 -0.0499 -0.0012 -0.0002 -0.0169
-0.0011 0.0018 -0.0089 -0.0092
(39.42%) 0.6279* H 130 s(99.95%)p 0.00(0.05%)
0.9998 0.0023 0.0002 -0.0099 0.0191
0.0016

122. (1.98804) BD (1) C 50 - H 131
(60.81%) 0.7798* C 50 s(23.75%)p 3.21(76.21%)d 0.00(0.05%)
-0.0001 0.4873 0.0045 0.0015 -0.0001

					0.2428	0.0013	0.0091	0.5105	-0.0030
					0.0027	-0.6651	0.0042	0.0005	0.0055
					-0.0083	-0.0156	-0.0064	0.0086	
	(39.19%)	0.6260*	H 131	s (99.96%)p 0.00(0.04%)					
					0.9998	0.0013	0.0001	-0.0050	-0.0122
					0.0157				
123.	(1.97541)	BD (1)	C 51 - C 52						
	(50.70%)	0.7120*	C 51	s (25.89%)p 2.86(74.08%)d 0.00(0.04%)					
					-0.0001	0.5087	-0.0118	0.0006	0.0000
					0.5288	0.0133	0.0036	0.6263	0.0001
					0.0006	0.2621	-0.0059	0.0016	0.0145
					0.0063	0.0076	-0.0037	-0.0071	
	(49.30%)	0.7022*	C 52	s (29.26%)p 2.42(70.70%)d 0.00(0.04%)					
					0.0003	0.5406	-0.0187	-0.0032	0.0001
					-0.5262	-0.0040	0.0109	-0.6035	-0.0111
					0.0100	-0.2560	-0.0041	0.0035	0.0166
					0.0066	0.0077	-0.0022	-0.0079	
124.	(1.97561)	BD (1)	C 51 - C 59						
	(51.02%)	0.7143*	C 51	s (26.38%)p 2.79(73.58%)d 0.00(0.04%)					
					-0.0001	0.5135	-0.0118	0.0012	0.0000
					-0.2026	0.0029	0.0020	-0.5190	-0.0130
					-0.0038	0.6521	-0.0027	0.0054	0.0049
					-0.0062	-0.0148	-0.0042	0.0073	
	(48.98%)	0.6999*	C 59	s (28.97%)p 2.45(70.99%)d 0.00(0.05%)					
					0.0003	0.5379	-0.0183	-0.0028	0.0001
					0.1861	0.0069	-0.0027	0.5215	0.0055
					-0.0103	-0.6348	-0.0075	0.0083	0.0053
					-0.0064	-0.0175	-0.0064	0.0071	
125.	(1.96408)	BD (1)	C 51 - H 81						
	(61.45%)	0.7839*	C 51	s (21.11%)p 3.73(78.83%)d 0.00(0.05%)					
					-0.0002	0.4591	0.0199	-0.0002	0.0001
					0.4307	-0.0066	0.0046	-0.4807	0.0063
					0.0017	-0.6095	0.0112	0.0073	-0.0105
					-0.0134	0.0148	-0.0009	0.0047	
	(38.55%)	0.6209*	H 81	s (99.95%)p 0.00(0.05%)					
					0.9998	0.0053	0.0003	-0.0094	0.0114
					0.0157				
126.	(1.98624)	BD (1)	C 52 - H 114						
	(60.73%)	0.7793*	C 52	s (23.27%)p 3.30(76.69%)d 0.00(0.04%)					
					-0.0001	0.4824	0.0049	0.0019	0.0002
					0.7336	-0.0036	0.0070	-0.3472	0.0045
					0.0056	0.3286	-0.0026	0.0021	-0.0125
					0.0111	-0.0057	0.0102	-0.0053	
	(39.27%)	0.6266*	H 114	s (99.96%)p 0.00(0.04%)					
					0.9998	0.0015	0.0002	-0.0170	0.0101
					-0.0074				
127.	(1.98831)	BD (1)	C 52 - H 115						
	(60.84%)	0.7800*	C 52	s (23.73%)p 3.21(76.23%)d 0.00(0.05%)					
					-0.0001	0.4871	0.0049	0.0015	-0.0001
					0.2238	-0.0001	0.0067	0.5221	-0.0009
					0.0061	-0.6629	0.0057	0.0021	0.0040
					-0.0078	-0.0171	-0.0052	0.0073	
	(39.16%)	0.6258*	H 115	s (99.96%)p 0.00(0.04%)					
					0.9998	0.0012	0.0001	-0.0049	-0.0122
					0.0160				
128.	(1.98844)	BD (1)	C 52 - H 116						
	(60.58%)	0.7783*	C 52	s (23.74%)p 3.21(76.21%)d 0.00(0.05%)					
					0.0000	0.4872	0.0066	0.0001	-0.0001
					-0.3660	0.0049	0.0048	0.4916	0.0039
					0.0069	0.6215	-0.0014	0.0034	-0.0098
					-0.0107	0.0141	-0.0030	0.0062	
	(39.42%)	0.6279*	H 116	s (99.95%)p 0.00(0.05%)					
					0.9998	0.0023	0.0002	0.0102	-0.0118
					-0.0149				
129.	(1.96921)	BD (1)	C 53 - C 54						
	(50.53%)	0.7109*	C 53	s (25.43%)p 2.93(74.53%)d 0.00(0.04%)					
					-0.0001	0.5041	-0.0116	0.0012	-0.0002
					0.4120	0.0070	0.0017	0.6126	-0.0008
					0.0013	-0.4473	-0.0101	-0.0040	0.0131
					-0.0073	-0.0118	-0.0058	-0.0031	
	(49.47%)	0.7033*	C 54	s (29.16%)p 2.43(70.79%)d 0.00(0.04%)					

					0.0004	0.5397	-0.0197	-0.0026	0.0001
					-0.3913	-0.0065	0.0080	-0.5986	-0.0106
					0.0085	0.4428	0.0038	-0.0097	0.0122
					-0.0092	-0.0136	-0.0052	-0.0016	
130.	(1.97956)	BD (1) C	53 - C	60					
	(51.23%)		0.7158*	C 53	s(26.68%)	p 2.75(73.28%)	d 0.00(0.04%)		
					-0.0001	0.5164	-0.0111	0.0030	-0.0003
					-0.8357	0.0002	-0.0037	0.0020	-0.0130
					-0.0010	-0.1850	-0.0039	-0.0027	-0.0012
					0.0066	-0.0012	0.0163	-0.0085	
	(48.77%)		0.6984*	C 60	s(28.89%)	p 2.46(71.06%)	d 0.00(0.05%)		
					0.0002	0.5372	-0.0153	-0.0008	-0.0003
					0.8143	0.0103	-0.0109	0.0251	0.0000
					-0.0036	0.2162	-0.0030	-0.0031	0.0017
					0.0094	0.0008	0.0178	-0.0091	
131.	(1.95860)	BD (1) C	53 - H	82					
	(62.84%)		0.7927*	C 53	s(21.59%)	p 3.63(78.36%)	d 0.00(0.05%)		
					0.0002	-0.4642	-0.0196	0.0045	0.0001
					-0.3373	0.0117	0.0022	0.7826	-0.0088
					-0.0066	0.2390	-0.0015	0.0035	0.0136
					0.0042	-0.0084	0.0116	0.0090	
	(37.16%)		0.6096*	H 82	s(99.95%)	p 0.00(0.05%)			
					-0.9997	0.0062	-0.0008	0.0052	-0.0204
					-0.0064				
132.	(1.98561)	BD (1) C	54 - H	117					
	(60.91%)		0.7804*	C 54	s(23.30%)	p 3.29(76.66%)	d 0.00(0.04%)		
					0.0002	-0.4826	-0.0057	-0.0020	-0.0001
					0.1218	-0.0024	-0.0046	0.1206	-0.0013
					-0.0045	0.8585	-0.0068	0.0062	0.0001
					-0.0048	-0.0054	-0.0005	-0.0198	
	(39.09%)		0.6252*	H 117	s(99.96%)	p 0.00(0.04%)			
					-0.9998	-0.0016	-0.0002	-0.0044	-0.0051
					-0.0192				
133.	(1.98955)	BD (1) C	54 - H	118					
	(60.47%)		0.7777*	C 54	s(23.65%)	p 3.23(76.30%)	d 0.00(0.05%)		
					0.0000	0.4863	0.0077	-0.0003	0.0000
					-0.3074	0.0038	0.0041	0.7912	0.0001
					0.0079	0.2058	-0.0023	-0.0041	-0.0116
					-0.0016	0.0086	-0.0127	-0.0087	
	(39.53%)		0.6287*	H 118	s(99.95%)	p 0.00(0.05%)			
					0.9998	0.0024	0.0002	0.0090	-0.0189
					-0.0062				
134.	(1.98730)	BD (1) C	54 - H	119					
	(60.54%)		0.7781*	C 54	s(23.89%)	p 3.18(76.06%)	d 0.00(0.05%)		
					0.0000	0.4887	0.0041	0.0013	-0.0001
					0.8584	-0.0030	0.0039	-0.0069	-0.0003
					0.0068	0.1538	-0.0025	-0.0064	-0.0010
					0.0071	0.0021	0.0185	-0.0098	
	(39.46%)		0.6282*	H 119	s(99.96%)	p 0.00(0.04%)			
					0.9998	0.0015	0.0000	-0.0201	0.0025
					-0.0038				
135.	(1.98449)	BD (1) C	55 - H	108					
	(60.68%)		0.7790*	C 55	s(23.12%)	p 3.32(76.84%)	d 0.00(0.04%)		
					-0.0002	0.4808	0.0082	0.0040	0.0002
					-0.6195	0.0084	-0.0010	0.5849	-0.0036
					0.0137	0.2050	-0.0088	0.0044	-0.0172
					-0.0052	0.0061	0.0019	-0.0080	
	(39.32%)		0.6271*	H 108	s(99.96%)	p 0.00(0.04%)			
					0.9998	0.0014	0.0004	0.0156	-0.0129
					-0.0053				
136.	(1.98741)	BD (1) C	55 - H	109					
	(60.54%)		0.7781*	C 55	s(23.70%)	p 3.22(76.26%)	d 0.00(0.04%)		
					0.0000	0.4867	0.0104	0.0020	-0.0001
					0.6609	0.0017	0.0052	0.1029	0.0056
					0.0091	0.5612	-0.0090	0.0058	0.0022
					0.0172	0.0035	0.0106	0.0021	
	(39.46%)		0.6281*	H 109	s(99.95%)	p 0.00(0.05%)			
					0.9998	0.0022	0.0005	-0.0161	-0.0015
					-0.0143				
137.	(1.98644)	BD (1) C	55 - H	110					
	(62.17%)		0.7885*	C 55	s(24.50%)	p 3.08(75.45%)	d 0.00(0.05%)		

-0.0001 0.4949 -0.0072 -0.0057 0.0004
0.2873 0.0032 -0.0034 0.1782 0.0096
0.0006 -0.7999 -0.0022 0.0116 0.0025
-0.0118 -0.0074 0.0015 0.0174
(37.83%) 0.6151* H 110 s(99.96%)p 0.00(0.04%)
0.9998 0.0013 0.0005 -0.0067 -0.0041
0.0190

138. (1.98436) BD (1) C 56 - H 102
(60.79%) 0.7796* C 56 s(23.09%)p 3.33(76.87%)d 0.00(0.04%)
0.0001 -0.4804 -0.0089 0.0041 -0.0003
0.1249 -0.0045 -0.0059 0.4190 -0.0112
0.0062 0.7598 -0.0050 0.0113 -0.0016
-0.0052 -0.0150 0.0034 -0.0124
(39.21%) 0.6262* H 102 s(99.96%)p 0.00(0.04%)
-0.9998 -0.0012 -0.0004 -0.0046 -0.0103
-0.0177

139. (1.98632) BD (1) C 56 - H 103
(62.31%) 0.7894* C 56 s(24.65%)p 3.05(75.30%)d 0.00(0.05%)
-0.0001 0.4964 -0.0083 0.0062 0.0004
0.1525 0.0073 -0.0016 0.8364 0.0016
-0.0132 -0.1727 -0.0074 0.0005 0.0066
-0.0012 -0.0073 -0.0176 -0.0098
(37.69%) 0.6139* H 103 s(99.96%)p 0.00(0.04%)
0.9998 0.0011 0.0006 -0.0026 -0.0199
0.0040

140. (1.98716) BD (1) C 56 - H 104
(60.37%) 0.7770* C 56 s(23.63%)p 3.23(76.33%)d 0.00(0.04%)
0.0000 0.4860 0.0113 -0.0023 -0.0002
0.7103 0.0046 0.0105 -0.3397 0.0091
-0.0063 0.3781 -0.0071 -0.0016 -0.0117
0.0129 -0.0048 0.0092 -0.0039
(39.63%) 0.6295* H 104 s(99.95%)p 0.00(0.05%)
0.9998 0.0021 0.0004 -0.0171 0.0087
-0.0098

141. (1.98474) BD (1) C 57 - H 123
(61.50%) 0.7842* C 57 s(23.50%)p 3.25(76.46%)d 0.00(0.04%)
0.0001 -0.4847 -0.0041 -0.0020 -0.0001
0.5723 0.0021 0.0032 -0.4761 0.0065
0.0046 0.4584 -0.0106 0.0079 0.0142
-0.0113 0.0100 -0.0025 0.0011
(38.50%) 0.6205* H 123 s(99.96%)p 0.00(0.04%)
-0.9998 -0.0012 -0.0004 -0.0127 0.0134
-0.0083

142. (1.98872) BD (1) C 57 - H 124
(59.98%) 0.7745* C 57 s(23.56%)p 3.24(76.39%)d 0.00(0.04%)
0.0000 -0.4854 -0.0081 -0.0006 -0.0002
-0.4578 0.0030 0.0070 0.4864 0.0027
0.0058 0.5635 0.0010 0.0083 0.0117
0.0125 -0.0117 0.0013 -0.0034
(40.02%) 0.6326* H 124 s(99.95%)p 0.00(0.05%)
-0.9998 -0.0023 -0.0003 0.0119 -0.0110
-0.0138

143. (1.98684) BD (1) C 57 - H 125
(61.30%) 0.7829* C 57 s(23.93%)p 3.18(76.03%)d 0.00(0.05%)
0.0001 -0.4891 -0.0053 -0.0007 0.0002
0.4490 0.0059 0.0027 0.5368 -0.0079
0.0076 -0.5200 0.0042 0.0040 -0.0100
0.0131 0.0132 0.0020 -0.0001
(38.70%) 0.6221* H 125 s(99.96%)p 0.00(0.04%)
-0.9998 -0.0011 -0.0002 -0.0108 -0.0112
0.0135

144. (1.98532) BD (1) C 58 - H 132
(60.64%) 0.7787* C 58 s(23.09%)p 3.33(76.87%)d 0.00(0.04%)
-0.0001 0.4804 0.0080 0.0036 0.0002
0.2234 -0.0081 0.0016 0.3950 -0.0048
-0.0023 0.7500 -0.0068 0.0126 0.0032
0.0085 0.0141 -0.0025 0.0120
(39.36%) 0.6274* H 132 s(99.96%)p 0.00(0.04%)
0.9998 0.0014 0.0004 -0.0059 -0.0111
-0.0167

145. (1.98713) BD (1) C 58 - H 133

	(61.82%)	0.7863*	C 58	s(24.40%)p 3.10(75.55%)d 0.00(0.05%)	0.0001 -0.4939 0.0070 0.0052 -0.0004	0.8601 0.0056 -0.0119 0.1241 0.0047	-0.0003 -0.0054 -0.0077 -0.0028 -0.0057	0.0005 -0.0003 -0.0187 0.0115
	(38.18%)	0.6179*	H 133	s(99.96%)p 0.00(0.04%)	-0.9998 -0.0014 -0.0005 -0.0201 -0.0021	-0.0004		
146.	(1.98795)	BD (1)	C 58 - H 134					
	(60.31%)	0.7766*	C 58	s(23.52%)p 3.25(76.43%)d 0.00(0.04%)	0.0000 -0.4849 -0.0112 -0.0019 0.0002	-0.3910 0.0078 -0.0021 0.7816 -0.0017	0.0107 0.0156 -0.0035 -0.0073 0.0146	-0.0010 -0.0014 0.0108 0.0106
	(39.69%)	0.6300*	H 134	s(99.95%)p 0.00(0.05%)	-0.9998 -0.0022 -0.0004 0.0102 -0.0189	-0.0016		
147.	(1.98540)	BD (1)	C 59 - H 111					
	(60.59%)	0.7784*	C 59	s(23.12%)p 3.32(76.83%)d 0.00(0.04%)	-0.0001 0.4808 0.0062 0.0028 0.0002	0.7326 -0.0062 -0.0007 -0.3229 -0.0010	-0.0064 0.3567 -0.0033 0.0094 -0.0117	0.0122 -0.0040 0.0104 -0.0051
	(39.41%)	0.6278*	H 111	s(99.96%)p 0.00(0.04%)	0.9998 0.0015 0.0003 -0.0185 0.0068	-0.0076		
148.	(1.98797)	BD (1)	C 59 - H 112					
	(60.42%)	0.7773*	C 59	s(23.63%)p 3.23(76.33%)d 0.00(0.04%)	0.0000 0.4861 0.0067 0.0010 0.0000	-0.4396 -0.0039 -0.0004 0.4197 -0.0069	-0.0036 0.6274 0.0004 0.0087 -0.0091	-0.0121 0.0129 0.0015 0.0056
	(39.58%)	0.6291*	H 112	s(99.95%)p 0.00(0.05%)	0.9998 0.0022 0.0004 0.0106 -0.0117	-0.0148		
149.	(1.98638)	BD (1)	C 59 - H 113					
	(61.73%)	0.7857*	C 59	s(24.28%)p 3.12(75.68%)d 0.00(0.05%)	0.0001 -0.4927 -0.0030 0.0004 0.0002	0.4846 0.0001 -0.0024 0.6685 -0.0025	0.0050 0.2739 -0.0040 -0.0062 -0.0150	-0.0067 -0.0093 0.0044 0.0090
	(38.27%)	0.6186*	H 113	s(99.96%)p 0.00(0.04%)	-0.9998 -0.0012 0.0001 -0.0108 -0.0140	-0.0087		
150.	(1.98440)	BD (1)	C 60 - H 120					
	(61.42%)	0.7837*	C 60	s(23.28%)p 3.29(76.67%)d 0.00(0.04%)	0.0001 -0.4824 -0.0097 -0.0039 0.0000	0.0866 0.0017 0.0098 0.1992 0.0066	-0.0015 0.8480 -0.0147 0.0107 0.0006	-0.0031 -0.0079 0.0023 -0.0189
	(38.58%)	0.6211*	H 120	s(99.96%)p 0.00(0.04%)	-0.9998 -0.0010 -0.0004 0.0003 -0.0066	-0.0194		
151.	(1.98692)	BD (1)	C 60 - H 121					
	(61.76%)	0.7859*	C 60	s(24.34%)p 3.11(75.61%)d 0.00(0.05%)	-0.0001 0.4933 -0.0075 -0.0046 0.0002	-0.4301 -0.0099 0.0043 -0.5960 -0.0072	0.0087 0.4643 -0.0061 -0.0081 0.0134	-0.0108 -0.0142 -0.0045 -0.0019
	(38.24%)	0.6184*	H 121	s(99.96%)p 0.00(0.04%)	0.9998 0.0011 0.0005 0.0084 0.0155	-0.0093		
152.	(1.98826)	BD (1)	C 60 - H 122					
	(59.83%)	0.7735*	C 60	s(23.50%)p 3.25(76.46%)d 0.00(0.04%)	0.0000 0.4846 0.0110 0.0022 0.0001	-0.3784 -0.0047 -0.0115 0.7770 -0.0058	0.0074 0.1321 0.0001 -0.0044 -0.0143	-0.0025 0.0044 -0.0116 -0.0083
	(40.17%)	0.6338*	H 122	s(99.95%)p 0.00(0.05%)	0.9998 0.0022 0.0004 0.0079 -0.0195	-0.0032		

153. (1.98496) BD (1) C 61 - H 96
(60.62%) 0.7786* C 61 s(23.12%)p 3.32(76.84%)d 0.00(0.04%)
-0.0001 0.4807 0.0079 0.0038 0.0002
-0.0046 0.0065 0.0014 0.2164 -0.0009
0.0106 0.8493 -0.0096 0.0083 -0.0013
-0.0001 0.0080 -0.0012 0.0189
(39.38%) 0.6276* H 96 s(99.96%)p 0.00(0.04%)
0.9998 0.0014 0.0004 0.0009 -0.0037
-0.0205

154. (1.98679) BD (1) C 61 - H 97
(61.97%) 0.7872* C 61 s(24.44%)p 3.09(75.51%)d 0.00(0.05%)
-0.0001 0.4943 -0.0071 -0.0055 0.0004
0.8263 0.0065 -0.0111 -0.0357 0.0087
0.0030 -0.2660 0.0016 0.0048 -0.0014
-0.0112 0.0003 0.0177 -0.0078
(38.03%) 0.6167* H 97 s(99.96%)p 0.00(0.04%)
0.9998 0.0014 0.0005 -0.0195 0.0012
0.0061

155. (1.98764) BD (1) C 61 - H 98
(60.49%) 0.7777* C 61 s(23.60%)p 3.24(76.36%)d 0.00(0.04%)
0.0000 0.4857 0.0110 0.0019 -0.0002
-0.4043 0.0101 -0.0012 0.6376 0.0009
0.0127 -0.4397 0.0012 -0.0006 -0.0130
0.0080 -0.0128 -0.0059 -0.0014
(39.51%) 0.6286* H 98 s(99.95%)p 0.00(0.05%)
0.9998 0.0021 0.0003 0.0107 -0.0148
0.0114

156. (1.98463) BD (1) C 62 - H 87
(60.62%) 0.7786* C 62 s(22.95%)p 3.36(77.01%)d 0.00(0.04%)
-0.0001 0.4790 0.0048 0.0031 0.0001
0.4665 0.0025 0.0026 -0.7245 0.0094
-0.0016 -0.1651 -0.0002 -0.0088 -0.0160
-0.0020 0.0059 -0.0077 -0.0091
(39.38%) 0.6276* H 87 s(99.96%)p 0.00(0.04%)
0.9998 0.0010 0.0004 -0.0104 0.0174
0.0020

157. (1.98761) BD (1) C 62 - H 88
(60.03%) 0.7748* C 62 s(23.44%)p 3.26(76.52%)d 0.00(0.05%)
0.0000 0.4841 0.0073 0.0009 0.0001
-0.6110 0.0038 0.0039 0.0685 0.0033
-0.0011 -0.6221 -0.0039 -0.0118 -0.0025
0.0190 -0.0006 0.0079 0.0045
(39.97%) 0.6322* H 88 s(99.96%)p 0.00(0.04%)
0.9998 0.0022 0.0003 0.0154 -0.0015
0.0145

158. (1.98595) BD (1) C 62 - H 89
(63.18%) 0.7948* C 62 s(25.12%)p 2.98(74.84%)d 0.00(0.05%)
-0.0001 0.5011 0.0065 -0.0008 -0.0002
0.5279 0.0010 0.0013 0.6832 -0.0088
0.0011 -0.0533 0.0011 -0.0090 0.0174
0.0007 -0.0019 -0.0040 -0.0120
(36.82%) 0.6068* H 89 s(99.95%)p 0.00(0.05%)
0.9997 0.0022 0.0000 -0.0130 -0.0184
-0.0042

159. (1.99867) CR (1) C 1
s(100.00%)p 0.00(0.00%)
1.0000 0.0003 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 -0.0001 0.0000
0.0000 -0.0002 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000

160. (1.99981) CR (1) O 2
s(100.00%)p 0.00(0.00%)
1.0000 0.0003 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0001 0.0000
0.0000 -0.0002 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000

161. (1.99898) CR (1) C 3
s(100.00%)p 0.00(0.00%)
1.0000 0.0002 0.0000 0.0000 0.0000
0.0001 0.0000 0.0000 0.0002 0.0000
0.0000 -0.0001 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000

162. (1.99875) CR (1) C 4
s(100.00%)p 0.00(0.00%)
1.0000 0.0004 0.0000 0.0000 0.0000

				0.0001	0.0000	0.0000	0.0001	0.0000
				0.0000	-0.0001	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
163.	(1.99898)	CR (1) C	5	s(100.00%)				
				1.0000	0.0002	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0001	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
164.	(1.99910)	CR (1) C	6	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0002	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0001	0.0000
				0.0000	0.0003	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
165.	(1.99920)	CR (1) C	7	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0002	0.0000	0.0000	0.0000
				-0.0002	0.0000	0.0000	0.0002	0.0000
				0.0000	0.0002	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
166.	(1.99910)	CR (1) C	8	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0002	0.0000	0.0000	0.0000
				-0.0003	0.0000	0.0000	0.0002	0.0000
				0.0000	-0.0001	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
167.	(1.99944)	CR (1) N	9	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0002	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0001	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
168.	(1.99868)	CR (1) C	10	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0004	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0002	0.0000
				0.0000	-0.0003	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
169.	(1.99943)	CR (1) N	11	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0002	0.0000	0.0000	0.0000
				0.0001	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0001	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
170.	(1.99903)	CR (1) C	12	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0003	0.0000	0.0000	0.0000
				0.0002	0.0000	0.0000	-0.0001	0.0000
				0.0000	-0.0001	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
171.	(1.99902)	CR (1) C	13	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0003	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0002	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
172.	(1.99760)	CR (1) B	14	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0021	0.0000	0.0000	0.0000
				-0.0016	0.0000	0.0000	0.0003	0.0000
				0.0000	-0.0040	0.0000	0.0000	0.0000
				0.0001	0.0000	0.0000	0.0001	0.0000
173.	(1.99700)	CR (1) B	15	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0011	0.0000	0.0000	0.0000
				-0.0012	0.0000	0.0000	-0.0002	0.0000
				0.0000	-0.0007	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
174.	(1.99876)	CR (1) C	16	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0003	0.0000	0.0000	0.0000
				-0.0002	0.0000	0.0000	-0.0003	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
175.	(1.99942)	CR (1) N	17	s(100.00%)				
				1.0000	0.0002	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0001	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000
176.	(1.99904)	CR (1) C	18	s(100.00%)p 0.00(0.00%)				
				1.0000	0.0003	0.0000	0.0000	0.0000
				-0.0002	0.0000	0.0000	0.0000	0.0000

			0.0000	-0.0001	0.0000	0.0000	0.0000	0.0000
			0.0000	0.0000	0.0000	0.0000	0.0000	
177.	(1.99904)	CR (1) C 19	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0003	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	-0.0001	0.0000	
			0.0000	0.0002	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
178.	(1.99942)	CR (1) N 20	s(100.00%)					
			1.0000	0.0002	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
179.	(1.99873)	CR (1) C 21	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0004	0.0000	0.0000	0.0000	
			-0.0001	0.0000	0.0000	-0.0001	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
180.	(1.99897)	CR (1) C 22	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0002	0.0000	0.0000	0.0000	
			-0.0002	0.0000	0.0000	-0.0001	0.0000	
			0.0000	-0.0001	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
181.	(1.99910)	CR (1) C 23	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0002	0.0000	0.0000	0.0000	
			-0.0001	0.0000	0.0000	0.0000	0.0000	
			0.0000	-0.0004	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
182.	(1.99920)	CR (1) C 24	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0002	0.0000	0.0000	0.0000	
			-0.0002	0.0000	0.0000	0.0002	0.0000	
			0.0000	-0.0003	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
183.	(1.99909)	CR (1) C 25	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0001	0.0000	0.0000	0.0000	
			-0.0002	0.0000	0.0000	0.0003	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
184.	(1.99898)	CR (1) C 26	s(100.00%)					
			1.0000	0.0002	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0001	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
185.	(1.99936)	CR (1) C 27	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0001	0.0000	0.0000	0.0000	
			0.0001	0.0000	0.0000	-0.0002	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
186.	(1.99941)	CR (1) C 28	s(100.00%)	p 0.00(0.00%)				
			1.0000	-0.0001	0.0000	0.0000	0.0000	
			-0.0002	0.0000	0.0000	-0.0003	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
187.	(1.99937)	CR (1) C 29	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0001	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0002	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
188.	(1.99942)	CR (1) C 30	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0000	0.0000	0.0000	0.0000	
			-0.0003	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0002	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
189.	(1.99874)	CR (1) C 31	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0004	0.0000	0.0000	0.0000	
			-0.0001	0.0000	0.0000	-0.0001	0.0000	
			0.0000	0.0001	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
190.	(1.99898)	CR (1) C 32	s(100.00%)	p 0.00(0.00%)				
			1.0000	0.0002	0.0000	0.0000	0.0000	
			0.0000	0.0000	0.0000	0.0000	0.0000	
			0.0000	0.0001	0.0000	0.0000	0.0000	

191.	(1.99910)	CR	(1)	C	33	0.0000	0.0000	0.0000	0.0000	
						s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0001	0.0000	0.0000	0.0001	0.0000
						0.0000	0.0004	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
192.	(1.99920)	CR	(1)	C	34	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0003	0.0000	0.0000	-0.0001	0.0000
						0.0000	0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
193.	(1.99910)	CR	(1)	C	35	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0003	0.0000	0.0000	-0.0002	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
194.	(1.99898)	CR	(1)	C	36	s(100.00%)				
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0001	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
195.	(1.99937)	CR	(1)	C	37	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0001	0.0000	0.0000	0.0000
						-0.0002	0.0000	0.0000	0.0001	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
196.	(1.99942)	CR	(1)	C	38	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0000	0.0000	0.0000	0.0000
						-0.0002	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0003	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
197.	(1.99936)	CR	(1)	C	39	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0001	0.0000	0.0000	0.0000
						-0.0001	0.0000	0.0000	-0.0001	0.0000
						0.0000	-0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
198.	(1.99942)	CR	(1)	C	40	s(100.00%)	p 0.00(	0.00%)		
						1.0000	-0.0001	0.0000	0.0000	0.0000
						-0.0001	0.0000	0.0000	-0.0004	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
199.	(1.99874)	CR	(1)	C	41	s(100.00%)	p 0.00(	0.00%)	d 0.00(	0.00%)
						1.0000	0.0003	-0.0001	0.0000	0.0000
						0.0001	-0.0001	0.0001	0.0002	0.0000
						0.0000	-0.0003	-0.0003	0.0001	-0.0002
						0.0001	-0.0004	0.0000	-0.0001	
200.	(1.99899)	CR	(1)	C	42	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0001	0.0000	0.0000	0.0000	0.0000
						0.0000	-0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
201.	(1.99911)	CR	(1)	C	43	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	-0.0002	0.0000
						0.0000	-0.0003	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
202.	(1.99920)	CR	(1)	C	44	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0002	0.0000	0.0000	-0.0003	0.0000
						0.0000	-0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
203.	(1.99909)	CR	(1)	C	45	s(100.00%)	p 0.00(	0.00%)		
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0003	0.0000	0.0000	-0.0002	0.0000
						0.0000	0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
204.	(1.99898)	CR	(1)	C	46	s(100.00%)				
						1.0000	0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	-0.0001	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000

205.	(1.99935)	CR	(1)	C	47	s(100.00%)p 0.00(0.00%)				
						1.0000	0.0001	0.0000	0.0000	0.0000
						-0.0001	0.0000	0.0000	0.0000	0.0002
						0.0000	-0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
206.	(1.99941)	CR	(1)	C	48	s(100.00%)p 0.00(0.00%)				
						1.0000	-0.0001	0.0000	0.0000	0.0000
						0.0002	0.0000	0.0000	0.0002	0.0000
						0.0000	-0.0003	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
207.	(1.99936)	CR	(1)	C	49	s(100.00%)p 0.00(0.00%)				
						1.0000	0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0002	0.0000
						0.0000	0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
208.	(1.99942)	CR	(1)	C	50	s(100.00%)p 0.00(0.00%)				
						1.0000	0.0000	0.0000	0.0000	0.0000
						0.0003	0.0000	0.0000	0.0001	0.0000
						0.0000	0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
209.	(1.99937)	CR	(1)	C	51	s(100.00%)p 0.00(0.00%)				
						1.0000	0.0001	0.0000	0.0000	0.0000
						0.0002	0.0000	0.0000	-0.0001	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
210.	(1.99942)	CR	(1)	C	52	s(100.00%)p 0.00(0.00%)				
						1.0000	0.0000	0.0000	0.0000	0.0000
						0.0003	0.0000	0.0000	0.0002	0.0000
						0.0000	0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
211.	(1.99935)	CR	(1)	C	53	s(100.00%)p 0.00(0.00%)				
						1.0000	0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	-0.0001	0.0000
						0.0000	-0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
212.	(1.99941)	CR	(1)	C	54	s(100.00%)p 0.00(0.00%)				
						1.0000	-0.0001	0.0000	0.0000	0.0000
						0.0002	0.0000	0.0000	0.0003	0.0000
						0.0000	-0.0003	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
213.	(1.99941)	CR	(1)	C	55	s(100.00%)p 0.00(0.00%)				
						1.0000	-0.0001	0.0000	0.0000	0.0000
						0.0001	0.0000	0.0000	0.0004	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
214.	(1.99942)	CR	(1)	C	56	s(100.00%)p 0.00(0.00%)				
						1.0000	-0.0001	0.0000	0.0000	0.0000
						0.0002	0.0000	0.0000	0.0000	0.0000
						0.0000	-0.0003	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
215.	(1.99943)	CR	(1)	C	57	s(100.00%)p 0.00(0.00%)				
						1.0000	0.0000	0.0000	0.0000	0.0000
						-0.0002	0.0000	0.0000	-0.0001	0.0000
						0.0000	-0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
216.	(1.99942)	CR	(1)	C	58	s(100.00%)p 0.00(0.00%)				
						1.0000	-0.0001	0.0000	0.0000	0.0000
						-0.0001	0.0000	0.0000	-0.0001	0.0000
						0.0000	0.0003	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
217.	(1.99941)	CR	(1)	C	59	s(100.00%)p 0.00(0.00%)				
						1.0000	-0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	-0.0002	0.0000
						0.0000	0.0002	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
218.	(1.99943)	CR	(1)	C	60	s(100.00%)p 0.00(0.00%)				
						1.0000	0.0000	0.0000	0.0000	0.0000
						-0.0003	0.0000	0.0000	-0.0001	0.0000
						0.0000	-0.0001	0.0000	0.0000	0.0000
						0.0000	0.0000	0.0000	0.0000	0.0000
219.	(1.99942)	CR	(1)	C	61	s(100.00%)p 0.00(0.00%)				

				1.0000	-0.0001	0.0000	0.0000	0.0000	0.0000
				0.0002	0.0000	0.0000	0.0000	0.0003	0.0000
				0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
220.	(1.99942)	CR (1) C	62	s(100.00%)	p 0.00(0.00%)				
				1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
				0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
				0.0000	-0.0002	0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
221.	(1.96474)	LP (1) O	2	s(59.74%)	p 0.67(40.24%)	d 0.00(0.02%)			
				-0.0003	0.7729	0.0095	-0.0003	-0.0002	
				-0.0745	0.0003	-0.0013	0.1686	0.0008	
				0.0015	-0.6070	-0.0059	-0.0055	0.0006	
				-0.0035	0.0063	-0.0004	-0.0117		
222.	(1.74913)	LP (2) O	2	s(0.28%)	p99.99(99.65%)	d 0.22(0.06%)			
				0.0001	0.0533	-0.0014	-0.0009	-0.0001	
				-0.9537	-0.0129	0.0018	-0.2737	-0.0047	
				0.0008	0.1088	0.0000	-0.0012	0.0046	
				-0.0220	-0.0068	-0.0068	0.0056		
223.	(0.58308)	LP*(1) B	14	s(0.06%)	p99.99(99.79%)	d 2.25(0.14%)			
				0.0000	0.0252	0.0004	-0.0006	-0.0017	
				-0.4664	0.0010	0.0107	0.8415	0.0036	
				-0.0234	0.2674	0.0014	-0.0105	-0.0246	
				0.0004	-0.0201	0.0155	-0.0136		
224.	(0.74839)	LP (1) B	15	s(0.01%)	p 1.00(99.92%)	d 0.00(0.07%)			
				0.0000	0.0097	0.0020	-0.0007	-0.0006	
				-0.3649	-0.0035	0.0097	0.8632	0.0133	
				-0.0213	0.3465	0.0082	-0.0072	0.0042	
				0.0111	-0.0176	-0.0138	-0.0102		
225.	(1.53944)	LP (1) N	20	s(0.01%)	p 1.00(99.98%)	d 0.00(0.01%)			
				0.0000	0.0081	-0.0020	0.0011	0.0000	
				0.2547	0.0046	0.0023	-0.7226	-0.0075	
				-0.0074	-0.6423	-0.0096	-0.0065	0.0066	
				0.0037	0.0016	-0.0004	0.0058		
226.	(0.01705)	RY*(1) C	1	s(24.47%)	p 3.06(74.95%)	d 0.02(0.58%)			
				0.0000	-0.0522	0.4916	-0.0158	-0.0065	
				0.0060	0.1757	0.0274	-0.0208	-0.2056	
				-0.0149	0.0707	0.8172	0.0468	-0.0296	
				0.0622	0.0202	0.0020	0.0255		
227.	(0.00521)	RY*(2) C	1	s(0.18%)	p28.27(4.96%)	d99.99(94.87%)			
				0.0000	0.0004	0.0244	0.0339	0.0030	
				-0.0123	-0.0740	0.0539	0.0465	0.0357	
				-0.1744	0.0168	0.0036	-0.0829	0.2744	
				-0.2261	0.7617	0.1212	0.4769		
228.	(0.00290)	RY*(3) C	1	s(14.31%)	p 0.58(8.25%)	d 5.41(77.44%)			
				0.0000	-0.0044	-0.2414	0.2911	-0.0048	
				0.0121	0.1941	-0.0036	0.0043	0.0039	
				-0.0738	-0.0156	0.1809	0.0790	0.2034	
				-0.7947	-0.2581	-0.1849	-0.0269		
229.	(0.00155)	RY*(4) C	1	s(40.18%)	p 0.45(17.95%)	d 1.04(41.87%)			
				0.0000	-0.0039	0.5562	-0.3042	-0.0026	
				0.0139	0.1285	-0.0175	-0.0110	0.2132	
				0.0587	0.0451	-0.3028	-0.1406	-0.1299	
				-0.2382	-0.2678	-0.2596	0.4538		
230.	(0.00086)	RY*(5) C	1	s(3.61%)	p25.78(92.98%)	d 0.95(3.41%)			
				0.0000	0.0013	0.1663	0.0915	0.0057	
				0.0120	-0.6197	-0.5299	0.0009	-0.4213	
				-0.2774	0.0060	-0.0558	0.0853	-0.0121	
				-0.0935	-0.1150	-0.0895	0.0630		
231.	(0.00055)	RY*(6) C	1	s(0.63%)	p99.99(99.28%)	d 0.15(0.09%)			
				0.0000	-0.0008	-0.0046	0.0787	-0.0061	
				-0.0037	-0.4514	-0.2028	0.0057	0.7697	
				0.2333	0.0003	0.3017	0.0999	0.0168	
				-0.0052	-0.0115	-0.0224	0.0015		
232.	(0.00041)	RY*(7) C	1	s(86.66%)	p 0.13(11.33%)	d 0.02(2.01%)			
				0.0000	0.0081	0.4245	0.8282	-0.0185	
				0.0094	0.0147	0.1286	-0.0054	0.0140	
				0.1769	0.0308	-0.2433	-0.0697	-0.0257	
				0.0685	0.0634	0.0261	-0.1003		
233.	(0.00029)	RY*(8) C	1	s(1.71%)	p55.64(95.10%)	d 1.87(3.19%)			
				0.0000	0.0131	0.1033	0.0778	-0.0140	

					-0.0017	0.4479	-0.4123	-0.0008	0.2714
					-0.4617	-0.0001	-0.1239	0.5274	-0.0265
					0.1305	0.0795	0.0672	-0.0579	
234.	(0.00015)	RY*(9)	C	1	s(1.70%)	p57.16(97.19%)	d 0.65(1.10%)		
					0.0000	0.0272	0.1082	-0.0675	0.0001
					0.0053	-0.3178	0.6403	0.0011	-0.0284
					-0.1467	-0.0026	-0.0620	0.6594	-0.0434
					-0.0583	-0.0528	-0.0428	0.0337	
235.	(0.00010)	RY*(10)	C	1	s(24.73%)	p 0.27(6.72%)	d 2.77(68.55%)		
					0.0000	0.0175	0.3773	-0.3233	-0.0065
					-0.0014	-0.0414	-0.0682	-0.0036	0.0038
					0.1748	0.0152	-0.1700	0.0338	0.3822
					-0.2920	0.1464	0.2900	-0.5904	
236.	(0.00008)	RY*(11)	C	1	s(0.96%)	p94.46(90.88%)	d 8.48(8.16%)		
237.	(0.00002)	RY*(12)	C	1	s(2.00%)	p 0.26(0.52%)	d48.71(97.48%)		
238.	(0.00002)	RY*(13)	C	1	s(2.25%)	p 0.25(0.57%)	d43.20(97.18%)		
239.	(0.00000)	RY*(14)	C	1	s(96.26%)	p 0.00(0.05%)	d 0.04(3.69%)		
240.	(0.00533)	RY*(1)	O	2	s(1.14%)	p83.64(95.57%)	d 2.88(3.29%)		
					0.0000	0.0001	0.1065	-0.0087	0.0017
					-0.0083	0.9109	-0.0039	-0.0023	0.3387
					0.0036	0.0039	-0.1030	-0.0210	0.0205
					-0.1566	-0.0663	-0.0528	0.0278	
241.	(0.00361)	RY*(2)	O	2	s(0.47%)	p99.99(97.97%)	d 3.36(1.56%)		
					0.0000	-0.0006	0.0682	-0.0008	0.0001
					-0.0044	-0.3160	0.0025	0.0153	0.9007
					0.0007	0.0037	0.2615	-0.0082	-0.0312
					0.0207	-0.1009	-0.0214	-0.0599	
242.	(0.00179)	RY*(3)	O	2	s(86.63%)	p 0.15(13.34%)	d 0.00(0.02%)		
					0.0000	-0.0035	0.9306	0.0162	0.0089
					0.0030	-0.1331	-0.0385	-0.0025	-0.0351
					0.0424	0.0135	-0.2843	-0.1738	0.0101
					-0.0078	0.0021	0.0082	0.0005	
243.	(0.00041)	RY*(4)	O	2	s(7.88%)	p11.53(90.77%)	d 0.17(1.35%)		
					0.0000	0.0262	0.2692	-0.0733	-0.0155
					0.0060	0.1504	-0.0264	-0.0065	-0.2372
					-0.0017	0.0291	0.9037	-0.1032	-0.0267
					-0.0536	-0.0023	0.0085	-0.0992	
244.	(0.00004)	RY*(5)	O	2	s(45.37%)	p 1.02(46.36%)	d 0.18(8.27%)		
245.	(0.00001)	RY*(6)	O	2	s(0.28%)	p99.99(99.70%)	d 0.06(0.02%)		
246.	(0.00001)	RY*(7)	O	2	s(13.96%)	p 6.17(86.04%)	d 0.00(0.00%)		
247.	(0.00001)	RY*(8)	O	2	s(0.13%)	p12.37(1.60%)	d99.99(98.27%)		
248.	(0.00001)	RY*(9)	O	2	s(40.12%)	p 1.49(59.87%)	d 0.00(0.01%)		
249.	(0.00001)	RY*(10)	O	2	s(0.16%)	p 2.34(0.37%)	d99.99(99.47%)		
250.	(0.00001)	RY*(11)	O	2	s(0.97%)	p 3.57(3.48%)	d98.15(95.55%)		
251.	(0.00001)	RY*(12)	O	2	s(2.53%)	p 1.64(4.14%)	d36.86(93.33%)		
252.	(0.00001)	RY*(13)	O	2	s(0.56%)	p 1.69(0.95%)	d99.99(98.49%)		
253.	(0.00000)	RY*(14)	O	2	s(99.85%)	p 0.00(0.09%)	d 0.00(0.06%)		
254.	(0.00513)	RY*(1)	C	3	s(0.68%)	p99.99(92.50%)	d 9.97(6.82%)		
					0.0000	0.0025	0.0370	0.0739	-0.0026
					0.0077	-0.3570	-0.0255	0.0000	0.0374
					0.0147	0.0239	-0.8910	0.0273	0.1092
					-0.0406	0.1147	-0.0717	0.1905	
255.	(0.00305)	RY*(2)	C	3	s(5.18%)	p16.55(85.65%)	d 1.77(9.18%)		
					0.0000	-0.0020	0.2225	-0.0475	0.0018
					0.0043	0.7445	0.0251	0.0017	-0.4416
					-0.0027	0.0025	-0.3245	-0.0352	0.0830
					0.2420	-0.0900	0.1243	0.0525	
256.	(0.00254)	RY*(3)	C	3	s(4.47%)	p19.28(86.25%)	d 2.07(9.28%)		
					0.0000	0.0029	0.2072	0.0422	0.0037
					0.0027	-0.4401	-0.0638	-0.0024	-0.7880
					-0.0692	-0.0006	0.1683	0.1033	0.0044
					-0.1546	-0.2107	0.0440	0.1502	
257.	(0.00148)	RY*(4)	C	3	s(85.65%)	p 0.16(13.53%)	d 0.01(0.83%)		
					0.0000	-0.0031	0.9216	-0.0846	-0.0046
					0.0025	-0.0678	0.1899	0.0036	0.2852
					-0.0778	-0.0121	0.0607	0.0580	-0.0289
					-0.0566	0.0418	0.0432	-0.0248	
258.	(0.00077)	RY*(5)	C	3	s(5.76%)	p 6.64(38.23%)	d 9.73(56.01%)		
					0.0000	-0.0059	0.1653	0.1733	0.0135
					0.0024	0.0948	-0.3749	-0.0140	-0.0323
					0.4420	-0.0020	0.0293	0.1879	-0.2220

259.	(0.00043)	RY*(6)	C	3	0.0798 -0.0109 -0.7101 -0.0054 s(5.03%)p17.58(88.41%)d 1.31(6.57%) 0.0000 0.0007 -0.1040 0.1978 0.0181 -0.0036 0.0401 0.3718 -0.0017 -0.0088 0.0060 0.0082 0.0421 0.8615 0.1731 0.1210 0.1427 0.0246 -0.0075
260.	(0.00040)	RY*(7)	C	3	s(0.75%)p41.94(31.45%)d90.44(67.81%) 0.0000 -0.0053 0.0759 -0.0403 0.0092 0.0084 0.0488 -0.4635 -0.0153 -0.1046 0.2698 -0.0035 0.0340 0.1098 0.0984 -0.2652 0.6416 0.3937 -0.1773
261.	(0.00036)	RY*(8)	C	3	s(79.12%)p 0.14(11.18%)d 0.12(9.69%) 0.0000 0.0018 0.0871 0.8851 -0.0149 0.0016 0.0664 -0.2351 0.0015 0.1346 -0.1459 -0.0069 0.0514 -0.1002 0.1590 -0.0197 -0.1706 0.1979 0.0547
262.	(0.00024)	RY*(9)	C	3	s(1.85%)p 9.26(17.09%)d43.92(81.07%) 0.0000 0.0032 0.0572 0.1232 -0.0013 -0.0165 -0.2518 0.0787 -0.0083 -0.1663 -0.1060 -0.0001 0.0660 -0.2402 0.1409 0.7163 0.3851 -0.1179 -0.3398
263.	(0.00014)	RY*(10)	C	3	s(3.74%)p 3.76(14.07%)d21.98(82.19%) 0.0000 0.0007 -0.0293 0.1909 -0.0088 0.0005 0.0479 0.1846 -0.0045 -0.1413 -0.1983 -0.0111 -0.2106 0.0230 -0.5309 -0.2931 0.0073 -0.0329 -0.6730
264.	(0.00012)	RY*(11)	C	3	s(2.97%)p 9.93(29.46%)d22.78(67.57%) 0.0000 0.0050 -0.0238 0.1703 -0.0090 0.0130 0.1769 0.3579 -0.0101 -0.1419 -0.1949 0.0008 0.1089 -0.2549 0.1666 -0.3987 0.4937 -0.4136 0.2725
265.	(0.00008)	RY*(12)	C	3	s(3.13%)p29.14(91.29%)d 1.78(5.58%)
266.	(0.00004)	RY*(13)	C	3	s(2.02%)p 0.48(0.96%)d48.13(97.02%)
267.	(0.00000)	RY*(14)	C	3	s(99.69%)p 0.00(0.09%)d 0.00(0.22%)
268.	(0.00649)	RY*(1)	C	4	s(5.75%)p15.12(87.01%)d 1.26(7.24%) 0.0000 0.0068 0.2354 0.0457 0.0019 -0.0096 0.5147 0.0031 0.0157 -0.6198 -0.0517 0.0096 -0.4667 -0.0113 -0.0899 -0.2079 0.1180 -0.0338 -0.0773
269.	(0.00335)	RY*(2)	C	4	s(0.09%)p99.99(96.05%)d41.98(3.86%) 0.0000 -0.0014 0.0302 0.0012 -0.0020 0.0039 0.5981 -0.1252 -0.0001 0.7139 0.0672 -0.0028 -0.2682 0.0296 -0.0385 0.0652 0.0485 -0.1594 -0.0716
270.	(0.00249)	RY*(3)	C	4	s(1.53%)p56.28(85.95%)d 8.20(12.53%) 0.0000 0.0030 0.1232 -0.0085 0.0026 0.0088 -0.5300 0.0430 -0.0013 0.1560 -0.0175 0.0050 -0.7428 0.0101 -0.1323 0.0787 -0.1686 0.0734 -0.2603
271.	(0.00113)	RY*(4)	C	4	s(54.55%)p 0.62(33.97%)d 0.21(11.49%) 0.0000 -0.0057 0.7315 -0.1013 0.0001 0.0007 0.0447 0.1463 0.0047 0.0828 -0.2608 0.0070 0.2493 -0.4234 -0.0257 0.2217 -0.0852 0.1188 -0.2090
272.	(0.00080)	RY*(5)	C	4	s(2.02%)p 3.62(7.30%)d44.90(90.68%) 0.0000 -0.0011 0.0314 0.1386 -0.0022 0.0035 -0.0133 0.0440 0.0105 0.0361 -0.1466 -0.0007 -0.0067 -0.2190 -0.2965 -0.3085 -0.6046 -0.4319 0.4141
273.	(0.00069)	RY*(6)	C	4	s(44.25%)p 0.43(18.92%)d 0.83(36.83%) 0.0000 0.0026 -0.2797 0.6035 0.0004 0.0002 0.0735 -0.2547 -0.0017 -0.0640 0.0512 0.0127 0.1388 -0.3046 -0.2052 0.0435 -0.1748 0.1229 -0.5279
274.	(0.00058)	RY*(7)	C	4	s(51.46%)p 0.59(30.36%)d 0.35(18.18%) 0.0000 -0.0022 0.1491 0.7016 0.0064 -0.0084 -0.0458 0.5002 0.0089 0.1495 -0.1133 -0.0008 -0.0600 0.1116 0.2581 -0.1383 0.2280 0.0745 0.1963
275.	(0.00041)	RY*(8)	C	4	s(23.13%)p 2.53(58.49%)d 0.79(18.38%) 0.0000 0.0054 0.4007 0.2659 -0.0060

							-0.0058	-0.2090	-0.7158	-0.0046	-0.0237
							0.1640	-0.0069	-0.0123	0.0322	0.2289
							0.0063	0.1777	-0.2438	0.2009	
276.	(0.00038)	R _Y * (9)	C	4		s (2.43%)	p26.53 (64.55%)	d13.57 (33.02%)			
							0.0000	0.0003	0.1519	-0.0341	0.0096
							0.0118	0.0649	0.0880	0.0055	0.0347
							0.7696	-0.0059	-0.0243	-0.1980	0.1179
							-0.2223	-0.2560	0.4247	0.1447	
277.	(0.00033)	R _Y * (10)	C	4		s (10.15%)	p 6.58 (66.72%)	d 2.28 (23.13%)			
							0.0000	0.0023	0.3049	0.0923	0.0010
							0.0077	0.0462	0.0664	-0.0038	-0.0397
							0.1598	0.0046	0.2205	0.7648	-0.1885
							0.0298	-0.3350	-0.0796	-0.2763	
278.	(0.00012)	R _Y * (11)	C	4		s (2.38%)	p 3.64 (8.64%)	d37.46 (88.98%)			
							0.0000	-0.0056	0.1158	-0.1005	0.0148
							-0.0115	-0.1709	-0.0162	0.0132	0.1793
							0.0335	0.0118	0.1508	-0.0228	-0.4475
							-0.6812	0.4372	-0.0030	-0.1853	
279.	(0.00010)	R _Y * (12)	C	4		s (0.04%)	p99.99 (39.77%)	d99.99 (60.19%)			
							0.0000	0.0013	-0.0053	-0.0109	0.0169
							-0.0017	-0.0856	0.3448	-0.0016	-0.0997
							0.4694	0.0007	0.0299	-0.2007	0.0038
							0.2152	0.2044	-0.6831	-0.2171	
280.	(0.00005)	R _Y * (13)	C	4		s (2.45%)	p 0.96 (2.35%)	d38.90 (95.21%)			
281.	(0.00000)	R _Y * (14)	C	4		s (99.82%)	p 0.00 (0.06%)	d 0.00 (0.12%)			
282.	(0.00510)	R _Y * (1)	C	5		s (0.71%)	p99.99 (92.35%)	d 9.75 (6.94%)			
							0.0000	0.0012	0.0092	0.0838	-0.0015
							-0.0180	0.6166	-0.0335	0.0080	-0.2812
							0.0087	-0.0148	0.6800	-0.0064	-0.1200
							0.0290	-0.0858	0.0821	-0.2001	
283.	(0.00298)	R _Y * (2)	C	5		s (1.73%)	p51.82 (89.66%)	d 4.98 (8.61%)			
							0.0000	0.0013	0.1314	-0.0047	0.0047
							-0.0032	-0.0355	-0.0109	-0.0028	-0.8832
							-0.0727	-0.0033	-0.3309	0.0220	0.1558
							0.1860	-0.0060	0.1644	0.0132	
284.	(0.00284)	R _Y * (3)	C	5		s (6.26%)	p13.76 (86.18%)	d 1.21 (7.56%)			
							0.0000	-0.0019	0.2501	-0.0073	0.0046
							0.0014	0.7076	0.0641	0.0013	0.2088
							0.0753	-0.0051	-0.5546	0.0063	-0.0513
							0.1158	-0.2002	-0.1026	0.0945	
285.	(0.00148)	R _Y * (4)	C	5		s (90.77%)	p 0.07 (6.54%)	d 0.03 (2.69%)			
							0.0000	-0.0038	0.9516	-0.0468	-0.0044
							0.0145	-0.1588	0.0403	-0.0031	0.0681
							-0.0163	0.0000	0.1824	-0.0137	0.0114
							-0.1102	0.1090	0.0520	0.0023	
286.	(0.00067)	R _Y * (5)	C	5		s (0.56%)	p10.43 (5.79%)	d99.99 (93.65%)			
							0.0000	-0.0019	0.0176	0.0723	0.0047
							0.0108	0.0553	-0.0212	0.0121	0.0751
							0.1935	-0.0064	-0.0348	0.0992	0.1657
							0.5009	0.6409	-0.2619	-0.4229	
287.	(0.00049)	R _Y * (6)	C	5		s (9.08%)	p 7.61 (69.14%)	d 2.40 (21.78%)			
							0.0000	0.0070	0.0236	0.3003	0.0000
							-0.0072	-0.0488	0.1314	0.0092	0.1029
							-0.3121	0.0109	0.0680	-0.7476	0.2285
							0.3738	-0.1570	-0.0077	0.0330	
288.	(0.00041)	R _Y * (7)	C	5		s (51.28%)	p 0.74 (38.19%)	d 0.21 (10.53%)			
							0.0000	-0.0004	0.0720	0.7125	0.0063
							0.0010	-0.0864	-0.5170	-0.0113	-0.0648
							0.2944	-0.0055	-0.1098	-0.0637	-0.1516
							-0.1956	-0.1051	-0.1515	-0.1000	
289.	(0.00028)	R _Y * (8)	C	5		s (32.91%)	p 1.79 (58.94%)	d 0.25 (8.15%)			
							0.0000	-0.0005	0.0118	0.5733	-0.0160
							0.0047	-0.0556	0.4845	0.0000	0.0755
							-0.1739	0.0055	0.0649	0.5580	0.1180
							0.1667	-0.1228	0.0980	0.1229	
290.	(0.00021)	R _Y * (9)	C	5		s (2.29%)	p 4.57 (10.48%)	d38.05 (87.23%)			
							0.0000	0.0001	-0.0628	0.1378	0.0001
							0.0080	0.1854	-0.1474	0.0094	0.1718
							-0.0526	-0.0055	-0.1141	-0.0564	0.3541
							-0.2666	0.3391	0.7457	-0.0692	
291.	(0.00013)	R _Y * (10)	C	5		s (0.13%)	p99.99 (14.66%)	d99.99 (85.20%)			

					0.0000	-0.0032	-0.0143	0.0316	-0.0102
					0.0022	0.1517	-0.2859	0.0011	-0.0458
					-0.0538	0.0148	0.1790	0.0683	0.3241
					0.0186	0.2922	-0.2708	0.7668	
292.	(0.00011)	RY*(11)	C	5	s(3.81%)p 9.75(37.17%)d15.48(59.02%)				
					0.0000	0.0004	-0.0594	0.1860	0.0030
					0.0089	0.1205	0.4862	-0.0104	-0.1791
					-0.1112	-0.0044	-0.1040	-0.2556	-0.2106
					-0.5275	0.4444	-0.2642	0.0164	
293.	(0.00007)	RY*(12)	C	5	s(0.11%)p99.99(85.97%)d99.99(13.92%)				
294.	(0.00004)	RY*(13)	C	5	s(1.19%)p 4.08(4.87%)d78.76(93.94%)				
295.	(0.00000)	RY*(14)	C	5	s(99.18%)p 0.00(0.19%)d 0.01(0.62%)				
296.	(0.00409)	RY*(1)	C	6	s(1.65%)p54.27(89.36%)d 5.47(9.00%)				
					0.0000	0.0055	0.1269	-0.0176	0.0032
					-0.0071	-0.2344	0.1050	-0.0037	-0.1589
					-0.0688	-0.0236	-0.8916	-0.0461	0.1638
					0.0570	0.0491	-0.0536	0.2337	
297.	(0.00143)	RY*(2)	C	6	s(0.31%)p99.99(98.56%)d 3.70(1.13%)				
					0.0000	0.0072	0.0532	0.0101	0.0085
					-0.0219	0.8256	0.0151	0.0189	-0.5275
					-0.0844	0.0028	-0.1180	-0.0611	-0.0388
					0.0606	-0.0589	0.0487	-0.0168	
298.	(0.00131)	RY*(3)	C	6	s(0.03%)p99.99(91.64%)d99.99(8.33%)				
					0.0000	0.0004	0.0160	-0.0062	-0.0002
					0.0115	0.4240	-0.1737	0.0091	0.7529
					-0.2559	-0.0038	-0.2474	0.1129	0.0113
					-0.1521	-0.1402	0.1700	0.1069	
299.	(0.00060)	RY*(4)	C	6	s(93.76%)p 0.04(3.69%)d 0.03(2.55%)				
					0.0000	-0.0009	0.9589	-0.1347	-0.0046
					0.0164	-0.0228	0.0998	-0.0064	0.0446
					-0.0170	0.0170	0.1244	0.0898	0.0297
					0.0681	-0.1043	-0.0056	-0.0954	
300.	(0.00048)	RY*(5)	C	6	s(0.08%)p99.99(8.98%)d99.99(90.94%)				
					0.0000	-0.0005	0.0278	0.0047	-0.0050
					0.0051	-0.1300	-0.0875	0.0077	-0.1884
					-0.1425	-0.0016	0.0668	0.0699	0.2907
					-0.1957	0.1894	0.8664	-0.0043	
301.	(0.00015)	RY*(6)	C	6	s(1.33%)p18.94(25.28%)d54.99(73.39%)				
					0.0000	-0.0045	0.1123	0.0179	-0.0197
					-0.0163	0.0962	-0.1892	0.0141	-0.0842
					0.2177	0.0084	0.0209	0.3903	0.0125
					-0.5980	0.4866	-0.2684	0.2594	
302.	(0.00009)	RY*(7)	C	6	s(4.03%)p17.00(68.52%)d 6.81(27.45%)				
303.	(0.00005)	RY*(8)	C	6	s(7.37%)p 3.05(22.46%)d 9.53(70.17%)				
304.	(0.00006)	RY*(9)	C	6	s(1.37%)p51.39(70.30%)d20.72(28.34%)				
305.	(0.00006)	RY*(10)	C	6	s(47.29%)p 0.95(45.01%)d 0.16(7.70%)				
306.	(0.00002)	RY*(11)	C	6	s(12.04%)p 2.73(32.84%)d 4.58(55.12%)				
307.	(0.00001)	RY*(12)	C	6	s(32.23%)p 0.87(28.09%)d 1.23(39.68%)				
308.	(0.00002)	RY*(13)	C	6	s(1.09%)p14.05(15.36%)d76.40(83.54%)				
309.	(0.00000)	RY*(14)	C	6	s(97.45%)p 0.00(0.04%)d 0.03(2.50%)				
310.	(0.00412)	RY*(1)	C	7	s(0.99%)p91.53(90.94%)d 8.12(8.07%)				
					0.0000	0.0005	0.0892	0.0441	0.0064
					0.0191	0.5604	-0.0366	-0.0187	-0.5668
					0.0268	-0.0168	-0.5194	0.0357	-0.0660
					-0.2258	0.1207	-0.0461	-0.0929	
311.	(0.00185)	RY*(2)	C	7	s(0.07%)p99.99(99.93%)d 0.07(0.00%)				
					0.0000	-0.0003	0.0256	0.0016	0.0010
					-0.0227	0.5460	0.1872	0.0068	-0.1480
					-0.0531	-0.0312	0.7559	0.2618	-0.0041
					0.0025	-0.0044	-0.0010	-0.0011	
312.	(0.00091)	RY*(3)	C	7	s(0.20%)p99.99(92.84%)d34.38(6.96%)				
					0.0000	0.0008	-0.0286	0.0347	-0.0006
					0.0044	0.5296	-0.1162	0.0062	0.7419
					-0.1529	-0.0022	-0.2385	0.0604	0.0595
					-0.0965	-0.0404	0.2314	0.0398	
313.	(0.00054)	RY*(4)	C	7	s(31.82%)p 0.04(1.17%)d 2.11(67.00%)				
					0.0000	-0.0007	0.5641	0.0036	0.0053
					-0.0105	-0.0432	0.0786	-0.0005	0.0217
					0.0498	0.0078	0.0114	-0.0205	0.3133
					0.2650	0.5326	0.3620	-0.2949	
314.	(0.00051)	RY*(5)	C	7	s(67.58%)p 0.02(1.28%)d 0.46(31.14%)				

				0.0000	-0.0006	0.8061	0.1611	0.0026
				-0.0052	-0.0323	-0.0059	0.0126	0.0744
				-0.0677	0.0057	0.0158	-0.0336	-0.1973
				-0.1567	-0.3885	-0.2305	0.2095	
315.	(0.00020)	RY*(6)	C 7	s(0.09%)p99.99(33.18%)d99.99(66.72%)				
				0.0000	0.0015	-0.0072	0.0289	-0.0039
				-0.0187	0.1082	-0.2940	0.0046	-0.0339
				0.0531	-0.0270	0.1434	-0.4562	-0.3354
				0.1460	-0.3243	0.2072	-0.6208	
316.	(0.00007)	RY*(7)	C 7	s(29.40%)p 1.36(40.10%)d 1.04(30.50%)				
317.	(0.00004)	RY*(8)	C 7	s(1.01%)p33.02(33.42%)d64.79(65.57%)				
318.	(0.00005)	RY*(9)	C 7	s(6.51%)p10.07(65.60%)d 4.28(27.88%)				
319.	(0.00004)	RY*(10)	C 7	s(20.16%)p 2.65(53.44%)d 1.31(26.40%)				
320.	(0.00001)	RY*(11)	C 7	s(37.76%)p 1.46(55.28%)d 0.18(6.97%)				
321.	(0.00000)	RY*(12)	C 7	s(2.81%)p 8.08(22.71%)d26.51(74.48%)				
322.	(0.00000)	RY*(13)	C 7	s(3.05%)p 3.19(9.72%)d28.61(87.23%)				
323.	(0.00000)	RY*(14)	C 7	s(98.59%)p 0.01(0.53%)d 0.01(0.88%)				
324.	(0.00422)	RY*(1)	C 8	s(1.92%)p46.46(89.25%)d 4.59(8.83%)				
				0.0000	0.0060	0.1383	-0.0070	0.0026
				0.0172	0.6836	0.0547	-0.0115	-0.4740
				-0.0416	0.0138	0.4265	-0.1157	-0.0779
				0.1418	-0.1728	0.0728	-0.1641	
325.	(0.00147)	RY*(2)	C 8	s(0.32%)p99.99(97.86%)d 5.68(1.82%)				
				0.0000	0.0069	0.0550	-0.0098	0.0056
				-0.0037	0.4957	-0.0199	0.0139	-0.0414
				-0.1351	0.0209	-0.8432	0.0317	0.0561
				0.0166	0.0008	0.0953	0.0752	
326.	(0.00131)	RY*(3)	C 8	s(0.06%)p99.99(93.97%)d95.04(5.96%)				
				0.0000	0.0004	-0.0137	0.0197	0.0073
				-0.0068	-0.3968	0.1978	0.0050	-0.8045
				0.1538	0.0148	-0.2515	-0.0935	-0.0564
				0.0696	0.0551	-0.2183	0.0300	
327.	(0.00060)	RY*(4)	C 8	s(92.45%)p 0.05(4.59%)d 0.03(2.97%)				
				0.0000	-0.0007	0.9514	-0.1387	-0.0079
				-0.0107	-0.1389	-0.0277	0.0016	0.0693
				-0.0578	-0.0200	-0.0114	-0.1304	0.1266
				0.0815	0.0421	-0.0653	0.0306	
328.	(0.00046)	RY*(5)	C 8	s(0.66%)p 9.49(6.28%)d99.99(93.06%)				
				0.0000	0.0005	0.0799	-0.0132	-0.0071
				-0.0063	-0.1360	-0.0360	-0.0055	-0.1563
				-0.1322	0.0026	0.0177	-0.0261	-0.0914
				-0.5626	-0.5355	0.4397	0.3544	
329.	(0.00016)	RY*(6)	C 8	s(5.18%)p 9.27(48.08%)d 9.01(46.74%)				
				0.0000	-0.0071	0.1748	0.1435	-0.0252
				-0.0101	0.0402	-0.4083	0.0111	-0.0302
				0.4742	0.0094	-0.1000	0.2762	-0.4040
				-0.3329	-0.0043	-0.0608	-0.4355	
330.	(0.00012)	RY*(7)	C 8	s(4.04%)p10.55(42.63%)d13.19(53.33%)				
				0.0000	-0.0095	0.0686	0.1858	0.0332
				-0.0002	0.1424	-0.1116	-0.0047	-0.0230
				0.4283	-0.0182	0.0914	0.4482	0.1460
				0.2264	-0.1061	-0.1614	0.6506	
331.	(0.00008)	RY*(8)	C 8	s(6.28%)p 9.23(57.92%)d 5.70(35.80%)				
332.	(0.00005)	RY*(9)	C 8	s(16.98%)p 0.93(15.83%)d 3.96(67.19%)				
333.	(0.00004)	RY*(10)	C 8	s(0.87%)p99.99(90.77%)d 9.65(8.36%)				
334.	(0.00002)	RY*(11)	C 8	s(1.58%)p 8.56(13.53%)d53.72(84.89%)				
335.	(0.00002)	RY*(12)	C 8	s(24.34%)p 1.53(37.16%)d 1.58(38.50%)				
336.	(0.00002)	RY*(13)	C 8	s(48.12%)p 0.05(2.23%)d 1.03(49.65%)				
337.	(0.00000)	RY*(14)	C 8	s(97.23%)p 0.00(0.04%)d 0.03(2.73%)				
338.	(0.00631)	RY*(1)	N 9	s(0.08%)p99.99(99.07%)d11.12(0.85%)				
				0.0000	-0.0029	0.0271	0.0050	0.0008
				-0.0117	0.7015	-0.0053	0.0042	-0.2809
				0.0167	-0.0046	0.6472	0.0161	0.0485
				0.0289	-0.0416	0.0103	-0.0592	
339.	(0.00502)	RY*(2)	N 9	s(6.40%)p13.23(84.72%)d 1.39(8.87%)				
				0.0000	-0.0039	0.2513	-0.0298	0.0010
				-0.0081	0.3050	-0.0189	0.0064	-0.5950
				0.0386	0.0076	-0.6309	0.0078	0.2447
				0.0918	-0.1167	-0.0803	-0.0183	
340.	(0.00155)	RY*(3)	N 9	s(0.24%)p99.99(87.77%)d49.36(11.99%)				
				0.0000	0.0034	0.0486	-0.0073	-0.0008

					0.0116	0.5509	0.0328	0.0115	0.6787
					0.0942	-0.0038	-0.3209	-0.0193	0.1739
					-0.0490	-0.0348	0.2915	0.0321	
341.	(0.00096)	RY*(4)	N	9	s(82.79%)	p 0.08(6.62%)	d 0.13(10.59%)		
					0.0000	0.0055	0.9088	0.0449	-0.0014
					-0.0025	-0.1539	-0.0068	-0.0036	0.0945
					0.0692	-0.0083	0.1682	0.0186	-0.1312
					-0.0880	-0.2546	0.1116	0.0608	
342.	(0.00073)	RY*(5)	N	9	s(7.33%)	p 0.11(0.83%)	d12.53(91.83%)		
					0.0000	0.0017	0.2620	0.0684	0.0011
					0.0082	-0.0144	-0.0405	0.0057	0.0657
					-0.0388	-0.0005	0.0202	0.0131	0.0730
					0.5953	0.6947	0.0413	-0.2725	
343.	(0.00052)	RY*(6)	N	9	s(0.90%)	p17.15(15.45%)	d92.87(83.65%)		
					0.0000	0.0018	0.0679	-0.0663	0.0014
					0.0165	0.1695	-0.1089	0.0246	0.2774
					-0.1388	-0.0095	-0.0687	0.1097	-0.2219
					0.1727	-0.1883	-0.8372	-0.1455	
344.	(0.00038)	RY*(7)	N	9	s(2.31%)	p 3.05(7.03%)	d39.32(90.66%)		
					0.0000	0.0001	0.1200	0.0929	0.0048
					0.0095	0.0380	0.1207	-0.0004	0.0234
					-0.0829	0.0014	0.0471	0.2112	0.2871
					-0.2611	0.4250	-0.3063	0.6940	
345.	(0.00016)	RY*(8)	N	9	s(0.13%)	p99.99(30.31%)	d99.99(69.56%)		
					0.0000	-0.0008	-0.0213	0.0280	0.0052
					0.0057	0.1928	0.2448	-0.0038	-0.1133
					0.0069	-0.0113	-0.1852	0.3983	-0.7851
					-0.0590	0.1947	0.1669	0.0997	
346.	(0.00013)	RY*(9)	N	9	s(19.33%)	p 2.74(53.01%)	d 1.43(27.66%)		
					0.0000	0.0084	-0.0735	0.4332	-0.0138
					-0.0095	-0.0830	0.1801	0.0023	0.0359
					-0.3633	-0.0031	0.0423	0.5964	0.2580
					0.2810	-0.3329	0.1372	-0.0374	
347.	(0.00008)	RY*(10)	N	9	s(24.73%)	p 1.76(43.41%)	d 1.29(31.85%)		
348.	(0.00006)	RY*(11)	N	9	s(17.94%)	p 4.03(72.38%)	d 0.54(9.68%)		
349.	(0.00004)	RY*(12)	N	9	s(36.31%)	p 0.35(12.55%)	d 1.41(51.15%)		
350.	(0.00004)	RY*(13)	N	9	s(1.63%)	p53.20(86.93%)	d 7.00(11.44%)		
351.	(0.00000)	RY*(14)	N	9	s(99.93%)	p 0.00(0.02%)	d 0.00(0.06%)		
352.	(0.00546)	RY*(1)	C	10	s(2.87%)	p30.92(88.75%)	d 2.92(8.38%)		
					0.0000	0.0191	0.1498	0.0763	0.0087
					-0.0323	-0.5458	0.0398	-0.0080	-0.5751
					0.0938	-0.0207	0.4909	-0.0776	-0.1045
					0.1253	0.2389	-0.0016	0.0076	
353.	(0.00341)	RY*(2)	C	10	s(24.58%)	p 1.68(41.26%)	d 1.39(34.16%)		
					0.0000	-0.0119	0.4577	-0.1901	-0.0057
					-0.0108	0.3851	-0.1683	-0.0003	0.2261
					0.0616	-0.0348	0.4169	0.0773	0.3217
					0.2137	0.3950	0.1844	0.0494	
354.	(0.00210)	RY*(3)	C	10	s(13.16%)	p 6.19(81.42%)	d 0.41(5.42%)		
					0.0000	-0.0054	0.3550	-0.0740	-0.0088
					-0.0195	0.4076	0.1868	0.0279	-0.4997
					-0.4994	0.0194	-0.1353	-0.3069	-0.0963
					-0.0080	-0.1619	0.1195	-0.0662	
355.	(0.00162)	RY*(4)	C	10	s(37.93%)	p 1.01(38.34%)	d 0.63(23.73%)		
					0.0000	0.0005	0.5704	-0.2322	0.0027
					-0.0035	-0.2807	-0.4851	-0.0265	0.0721
					0.0221	0.0226	-0.1293	0.2137	-0.1928
					-0.0411	-0.4024	-0.1129	-0.1541	
356.	(0.00138)	RY*(5)	C	10	s(5.24%)	p13.90(72.87%)	d 4.18(21.89%)		
					0.0000	0.0032	0.2281	-0.0185	-0.0024
					-0.0152	-0.3366	0.3327	-0.0009	0.0306
					-0.2737	0.0051	-0.4857	0.4390	0.1494
					0.1158	0.3596	0.1878	0.1363	
357.	(0.00126)	RY*(6)	C	10	s(0.94%)	p74.80(70.56%)	d30.21(28.50%)		
					0.0000	-0.0022	-0.0107	0.0955	-0.0141
					0.0008	0.2786	-0.2208	-0.0022	-0.5078
					0.3909	-0.0009	-0.3430	0.2256	0.2969
					0.1500	0.0990	-0.4028	0.0485	
358.	(0.00112)	RY*(7)	C	10	s(1.79%)	p10.41(18.66%)	d44.37(79.55%)		
					0.0000	-0.0021	-0.0687	0.1149	0.0018
					0.0084	0.1210	0.2477	-0.0028	-0.0030

					0.1590	-0.0043	0.0603	0.2856	-0.1751
					0.5916	-0.2258	0.2115	-0.5649	
359.	(0.00064)	RY*(8)	C	10	s(24.42%)	p 2.88(70.24%)	d 0.22(5.34%)		
					0.0000	-0.0119	0.4638	0.1701	0.0066
					-0.0051	-0.0473	0.5249	-0.0163	0.1914
					0.5024	-0.0011	-0.1132	-0.3500	0.0309
					-0.0355	-0.1311	-0.1569	0.0966	
360.	(0.00036)	RY*(9)	C	10	s(81.90%)	p 0.18(14.54%)	d 0.04(3.56%)		
					0.0000	0.0003	0.1640	0.8897	-0.0212
					-0.0048	0.0130	-0.2202	-0.0138	0.1198
					-0.2701	0.0067	0.0809	0.0509	0.0738
					0.0854	-0.0921	-0.0393	0.1134	
361.	(0.00014)	RY*(10)	C	10	s(3.29%)	p 6.24(20.51%)	d23.19(76.20%)		
					0.0000	-0.0086	0.1050	0.1444	-0.0301
					-0.0083	0.2915	0.0210	0.0075	-0.0283
					0.1854	0.0093	0.0000	0.2903	-0.7350
					-0.3116	0.3456	0.0357	0.0637	
362.	(0.00014)	RY*(11)	C	10	s(1.59%)	p12.92(20.58%)	d48.87(77.83%)		
					0.0000	0.0011	-0.0221	0.1068	0.0635
					-0.0098	-0.0078	-0.1703	0.0171	-0.1974
					0.3472	0.0052	-0.1293	-0.0065	0.1390
					-0.1868	-0.2015	0.8082	0.1741	
363.	(0.00008)	RY*(12)	C	10	s(0.71%)	p83.87(59.33%)	d56.49(39.96%)		
364.	(0.00004)	RY*(13)	C	10	s(2.89%)	p 1.10(3.17%)	d32.46(93.93%)		
365.	(0.00001)	RY*(14)	C	10	s(98.66%)	p 0.00(0.10%)	d 0.01(1.24%)		
366.	(0.00639)	RY*(1)	N	11	s(0.05%)	p99.99(99.23%)	d14.18(0.72%)		
					0.0000	0.0020	0.0116	0.0192	-0.0003
					0.0029	-0.4746	-0.0097	0.0046	-0.1187
					0.0139	0.0064	-0.8675	-0.0003	-0.0638
					0.0200	-0.0345	-0.0343	-0.0193	
367.	(0.00514)	RY*(2)	N	11	s(6.11%)	p13.83(84.48%)	d 1.54(9.41%)		
					0.0000	-0.0040	0.2321	-0.0848	-0.0001
					0.0040	-0.4106	0.0238	-0.0137	0.8151
					-0.0306	-0.0029	0.0969	-0.0280	0.1128
					-0.0712	-0.1061	0.2506	0.0473	
368.	(0.00167)	RY*(3)	N	11	s(1.24%)	p69.25(86.09%)	d10.19(12.66%)		
					0.0000	0.0040	0.1011	-0.0469	-0.0008
					0.0117	0.7185	0.0952	0.0088	0.3569
					0.0119	-0.0063	-0.4505	-0.0697	0.2820
					0.1370	-0.1278	-0.0583	-0.0929	
369.	(0.00107)	RY*(4)	N	11	s(86.36%)	p 0.08(7.21%)	d 0.07(6.43%)		
					0.0000	0.0053	0.9231	0.1068	0.0011
					-0.0082	-0.0201	0.0081	0.0020	-0.2562
					-0.0446	-0.0007	0.0527	-0.0342	0.1426
					0.0191	-0.0141	-0.1422	0.1523	
370.	(0.00067)	RY*(5)	N	11	s(3.45%)	p 0.40(1.38%)	d27.62(95.18%)		
					0.0000	0.0013	0.1751	0.0615	0.0017
					0.0073	0.0649	-0.0702	0.0048	-0.0110
					-0.0554	-0.0050	-0.0327	0.0154	-0.2539
					0.4688	0.4783	0.5382	-0.3862	
371.	(0.00051)	RY*(6)	N	11	s(1.00%)	p15.64(15.59%)	d83.67(83.41%)		
					0.0000	0.0014	0.0948	0.0313	0.0004
					0.0256	0.2832	-0.1339	0.0109	0.0710
					-0.1010	-0.0121	-0.1677	0.1160	-0.4858
					-0.5432	0.1749	0.2907	0.4336	
372.	(0.00037)	RY*(7)	N	11	s(2.71%)	p 2.71(7.34%)	d33.19(89.95%)		
					0.0000	0.0008	0.1101	0.1223	0.0052
					0.0037	0.0575	0.0486	0.0047	-0.0128
					-0.0505	0.0011	0.0453	0.2509	-0.4966
					0.0969	-0.7423	0.0680	-0.2963	
373.	(0.00015)	RY*(8)	N	11	s(49.14%)	p 0.77(37.60%)	d 0.27(13.26%)		
					0.0000	0.0049	-0.1127	0.6919	-0.0028
					-0.0056	-0.0126	-0.1574	-0.0003	0.0921
					-0.1193	-0.0038	-0.0144	0.5728	0.2618
					0.1513	0.0512	-0.0019	0.1963	
374.	(0.00014)	RY*(9)	N	11	s(1.48%)	p18.31(27.07%)	d48.31(71.45%)		
					0.0000	0.0016	-0.0440	0.1133	0.0005
					0.0006	0.0177	-0.3315	-0.0119	-0.2639
					0.1806	0.0035	-0.0109	-0.2408	0.4183
					-0.2177	-0.3289	0.6174	-0.0521	
375.	(0.00010)	RY*(10)	N	11	s(18.28%)	p 3.46(63.26%)	d 1.01(18.46%)		

					0.0000	0.0008	-0.0286	0.4266	0.0063
					0.0036	0.0135	-0.4764	0.0062	0.1842
					0.0756	0.0078	0.0176	-0.6045	-0.2751
					0.1638	-0.0225	-0.2775	0.0675	
376.	(0.00006)	RY*(11)	N	11	s(18.05%)	p 4.33(78.17%)	d 0.21(3.77%)		
377.	(0.00004)	RY*(12)	N	11	s(6.90%)	p13.10(90.45%)	d 0.38(2.64%)		
378.	(0.00005)	RY*(13)	N	11	s(5.31%)	p 0.42(2.20%)	d17.43(92.49%)		
379.	(0.00000)	RY*(14)	N	11	s(99.97%)	p 0.00(0.01%)	d 0.00(0.02%)		
380.	(0.00425)	RY*(1)	C	12	s(0.75%)	p99.99(82.83%)	d21.81(16.41%)		
					0.0000	-0.0014	0.0844	-0.0201	-0.0009
					0.0102	0.3445	-0.0881	-0.0007	-0.1711
					0.0231	0.0197	0.7763	-0.2626	-0.1020
					-0.2016	-0.3036	-0.1188	0.0827	
381.	(0.00301)	RY*(2)	C	12	s(8.61%)	p 9.21(79.35%)	d 1.40(12.04%)		
					0.0000	-0.0070	0.2933	-0.0012	0.0059
					-0.0141	-0.7487	0.0178	-0.0068	0.2759
					0.1564	0.0077	0.3601	0.0457	-0.0570
					-0.1562	-0.0217	0.3019	0.0329	
382.	(0.00144)	RY*(3)	C	12	s(2.58%)	p35.30(90.91%)	d 2.53(6.52%)		
					0.0000	-0.0043	0.1457	-0.0670	0.0043
					-0.0038	0.3350	-0.0841	-0.0436	0.8303
					0.3053	-0.0045	0.0431	0.0589	0.0983
					0.1046	0.0332	-0.2061	-0.0315	
383.	(0.00111)	RY*(4)	C	12	s(61.90%)	p 0.55(34.34%)	d 0.06(3.77%)		
					0.0000	0.0065	0.7859	-0.0296	-0.0187
					0.0119	0.1178	-0.3911	0.0034	-0.1710
					-0.1723	-0.0003	-0.1785	0.2926	-0.1547
					-0.0073	-0.0859	-0.0681	-0.0410	
384.	(0.00070)	RY*(5)	C	12	s(2.06%)	p 6.20(12.80%)	d41.23(85.13%)		
					0.0000	0.0025	0.1429	-0.0150	-0.0016
					-0.0020	0.1051	-0.1599	0.0043	-0.0883
					-0.1133	-0.0084	0.2403	-0.1138	0.3732
					0.0840	0.7891	0.1454	0.2473	
385.	(0.00041)	RY*(6)	C	12	s(10.61%)	p 7.96(84.42%)	d 0.47(4.97%)		
					0.0000	-0.0065	0.3224	0.0415	0.0195
					0.0146	0.0015	0.6849	-0.0073	0.1679
					-0.5637	-0.0054	0.0379	-0.1656	0.0859
					0.0339	-0.0036	-0.1902	-0.0704	
386.	(0.00027)	RY*(7)	C	12	s(16.61%)	p 4.48(74.49%)	d 0.54(8.89%)		
					0.0000	0.0145	-0.2191	0.3392	-0.0536
					-0.0025	-0.1831	-0.5166	-0.0009	0.2777
					-0.5598	-0.0001	0.0245	-0.2313	-0.0819
					0.2138	-0.1260	-0.0922	0.1102	
387.	(0.00016)	RY*(8)	C	12	s(6.84%)	p12.59(86.16%)	d 1.02(6.99%)		
					0.0000	-0.0084	0.2543	-0.0294	0.0535
					0.0066	-0.0971	-0.0665	-0.0007	-0.0848
					0.3017	-0.0035	-0.2480	-0.8295	-0.0967
					0.1594	0.0367	-0.0562	-0.1752	
388.	(0.00011)	RY*(9)	C	12	s(2.00%)	p 2.09(4.19%)	d46.81(93.81%)		
					0.0000	-0.0026	-0.0417	0.1337	0.0203
					-0.0066	0.1141	0.1382	-0.0315	0.0921
					0.0074	-0.0022	-0.0026	0.0123	-0.8612
					-0.0904	0.3903	0.0259	0.1880	
389.	(0.00012)	RY*(10)	C	12	s(42.16%)	p 0.49(20.71%)	d 0.88(37.13%)		
					0.0000	-0.0024	0.0484	0.6461	0.0424
					0.0067	-0.1716	0.0693	0.0046	-0.1812
					0.2833	-0.0015	0.1559	0.1880	0.0656
					0.1790	0.1405	-0.5373	-0.1629	
390.	(0.00004)	RY*(11)	C	12	s(41.68%)	p 0.27(11.31%)	d 1.13(47.01%)		
391.	(0.00002)	RY*(12)	C	12	s(0.53%)	p16.63(8.77%)	d99.99(90.70%)		
392.	(0.00002)	RY*(13)	C	12	s(4.81%)	p 1.84(8.84%)	d17.94(86.34%)		
393.	(0.00000)	RY*(14)	C	12	s(98.91%)	p 0.01(1.00%)	d 0.00(0.09%)		
394.	(0.00426)	RY*(1)	C	13	s(0.82%)	p99.99(82.67%)	d20.24(16.52%)		
					0.0000	-0.0022	0.0847	-0.0313	-0.0021
					0.0114	0.3047	-0.1219	-0.0043	-0.1714
					0.1075	0.0185	0.7912	-0.2270	0.0450
					-0.2355	-0.1246	-0.2021	0.2265	
395.	(0.00304)	RY*(2)	C	13	s(8.63%)	p 9.22(79.62%)	d 1.36(11.74%)		
					0.0000	-0.0068	0.2937	0.0025	0.0055
					-0.0115	-0.0976	0.1333	-0.0125	-0.8549
					-0.0477	0.0052	-0.1809	-0.0524	0.1863

396.	(0.00151)	RY*(3)	C	13	0.1266 -0.0272 -0.2415 -0.0872 s(1.51%)p61.64(92.89%)d 3.72(5.60%) 0.0000 0.0046 -0.0593 0.1073 0.0022 0.0374 -0.8611 -0.1954 -0.0130 0.0542 0.1354 -0.0213 0.3198 0.1537 0.1290 0.0613 0.0140 -0.1874 -0.0177
397.	(0.00109)	RY*(4)	C	13	s(64.80%)p 0.48(31.20%)d 0.06(4.00%) 0.0000 0.0059 0.8046 -0.0212 -0.0130 0.0070 -0.0277 -0.2161 0.0092 0.2306 -0.4049 0.0046 -0.0108 0.2172 -0.0462 -0.1151 0.0802 -0.0555 0.1228
398.	(0.00069)	RY*(5)	C	13	s(3.48%)p 3.70(12.87%)d24.03(83.65%) 0.0000 0.0009 0.1862 -0.0112 0.0038 0.0002 0.0745 -0.2168 0.0043 -0.0424 0.0689 -0.0088 0.2634 -0.0106 -0.2932 0.4474 -0.2445 0.2845 -0.6401
399.	(0.00044)	RY*(6)	C	13	s(7.15%)p12.07(86.27%)d 0.92(6.58%) 0.0000 -0.0061 0.2651 0.0286 0.0187 0.0010 0.1045 -0.1462 0.0156 -0.0635 0.8271 0.0058 -0.1455 0.3477 -0.0298 -0.1816 0.0779 0.1373 0.0840
400.	(0.00024)	RY*(7)	C	13	s(6.02%)p13.96(84.05%)d 1.65(9.93%) 0.0000 0.0103 -0.1180 0.2101 -0.0451 0.0004 -0.0021 -0.7847 -0.0004 -0.1599 -0.0475 -0.0034 -0.2410 -0.3727 -0.0787 0.0651 0.0577 0.1352 0.2593
401.	(0.00015)	RY*(8)	C	13	s(11.23%)p 6.98(78.41%)d 0.92(10.35%) 0.0000 -0.0142 0.3168 -0.0812 0.0719 -0.0022 -0.1885 0.2451 0.0077 0.2061 0.2761 0.0037 -0.0678 -0.7518 -0.1082 0.0199 0.2877 -0.0494 -0.0788
402.	(0.00012)	RY*(9)	C	13	s(59.57%)p 0.19(11.56%)d 0.48(28.88%) 0.0000 -0.0031 0.0108 0.7716 0.0134 -0.0023 -0.0517 0.2481 0.0062 -0.1545 -0.1044 0.0028 0.1227 0.0383 -0.3828 -0.2383 0.1991 0.2126 -0.0243
403.	(0.00009)	RY*(10)	C	13	s(1.30%)p 4.82(6.29%)d70.81(92.40%)
404.	(0.00005)	RY*(11)	C	13	s(30.10%)p 0.52(15.61%)d 1.80(54.29%)
405.	(0.00002)	RY*(12)	C	13	s(2.97%)p 2.55(7.59%)d30.08(89.44%)
406.	(0.00002)	RY*(13)	C	13	s(3.44%)p 2.98(10.28%)d25.04(86.27%)
407.	(0.00000)	RY*(14)	C	13	s(99.03%)p 0.01(0.81%)d 0.00(0.16%)
408.	(0.00292)	RY*(1)	B	14	s(9.96%)p 8.81(87.77%)d 0.23(2.27%) 0.0000 0.0098 0.3144 0.0072 0.0252 0.0117 -0.8196 -0.2924 0.0085 -0.3067 -0.1500 -0.0023 -0.0586 0.0158 -0.0056 0.1186 0.0611 0.0609 -0.0343
409.	(0.00140)	RY*(2)	B	14	s(3.39%)p20.72(70.23%)d 7.79(26.39%) 0.0000 -0.0024 0.1594 0.0751 -0.0533 -0.0036 0.2298 -0.1893 -0.0042 -0.2324 0.1146 0.0056 0.6056 -0.4238 0.0581 0.2952 0.2519 0.2168 -0.2508
410.	(0.00130)	RY*(3)	B	14	s(1.47%)p65.49(96.10%)d 1.66(2.43%) 0.0000 0.0009 0.0815 0.0896 0.0020 -0.0057 0.3424 -0.1709 0.0104 -0.7053 0.2972 0.0044 -0.4441 0.1773 -0.0360 -0.0552 0.0664 0.1198 0.0351
411.	(0.00095)	RY*(4)	B	14	s(64.43%)p 0.46(29.93%)d 0.09(5.65%) 0.0000 -0.0128 0.7969 0.0939 -0.0178 0.0037 0.1725 0.1029 -0.0009 0.3951 0.0761 0.0066 -0.3114 0.0028 0.0014 0.1794 0.1033 0.0732 -0.0907
412.	(0.00063)	RY*(5)	B	14	s(5.85%)p15.55(90.94%)d 0.55(3.21%) 0.0000 -0.0182 -0.0312 0.2361 -0.0381 -0.0174 -0.2875 0.7554 -0.0008 -0.1522 0.4514 -0.0076 0.1196 0.1204 0.0665 0.0856 0.0631 0.0528 -0.1166
413.	(0.00045)	RY*(6)	B	14	s(36.37%)p 0.88(31.99%)d 0.87(31.64%) 0.0000 -0.0022 -0.3156 0.5126 -0.0366 -0.0061 0.0155 -0.2199 0.0044 0.2010 -0.1462 -0.0036 -0.0928 0.4482 0.0468 0.3068 0.3342 0.0762 -0.3202

414. (0.00038) RY*(7) B 14 s(20.53%)p 3.72(76.42%)d 0.15(3.05%)
0.0000 -0.0027 -0.2201 0.3942 -0.0384
0.0027 -0.1025 0.0297 -0.0098 0.0587
-0.0211 0.0003 -0.4471 -0.7409 0.0119
-0.1124 0.0038 0.0176 -0.1320

415. (0.00037) RY*(8) B 14 s(1.63%)p53.16(86.80%)d 7.09(11.57%)
0.0000 -0.0012 0.0882 0.0755 -0.0534
0.0130 0.1451 0.4278 -0.0245 -0.2733
-0.7668 -0.0108 0.0046 0.0161 -0.1667
-0.0146 0.0260 0.2947 0.0116

416. (0.00019) RY*(9) B 14 s(52.64%)p 0.21(11.26%)d 0.69(36.10%)
0.0000 0.0063 0.2217 0.6811 -0.1154
-0.0107 0.0519 -0.1195 -0.0034 -0.0587
-0.0420 0.0097 0.2915 0.0722 0.1112
-0.2050 -0.3568 -0.2155 0.3645

417. (0.00013) RY*(10) B 14 s(1.36%)p 8.43(11.46%)d64.11(87.18%)
0.0000 -0.0006 -0.0604 0.0889 -0.0451
0.0131 -0.0760 -0.1306 -0.0200 0.1845
0.2228 -0.0036 0.0653 0.0569 -0.5866
-0.0932 -0.3128 0.6487 0.0202

418. (0.00009) RY*(11) B 14 s(16.70%)p 0.17(2.83%)d 4.82(80.47%)

419. (0.00007) RY*(12) B 14 s(58.94%)p 0.02(1.26%)d 0.68(39.80%)

420. (0.00004) RY*(13) B 14 s(25.43%)p 0.03(0.65%)d 2.91(73.92%)

421. (0.00004) RY*(14) B 14 s(1.39%)p 1.86(2.57%)d69.33(96.04%)

422. (0.00328) RY*(1) B 15 s(40.38%)p 1.22(49.18%)d 0.26(10.44%)
0.0000 0.0063 0.6343 0.0314 0.0209
0.0056 0.5981 0.1782 0.0026 0.2376
0.1433 -0.0032 -0.0672 -0.1444 0.0649
-0.2918 -0.1135 -0.0400 0.0226

423. (0.00182) RY*(2) B 15 s(4.47%)p17.82(79.64%)d 3.56(15.89%)
0.0000 -0.0241 0.1756 0.1065 -0.0439
0.0019 0.0293 -0.5263 0.0055 -0.1107
-0.3854 -0.0188 0.5030 0.3231 0.0759
-0.3732 -0.0717 -0.0856 -0.0378

424. (0.00127) RY*(3) B 15 s(0.33%)p99.99(96.16%)d10.50(3.51%)
0.0000 0.0008 0.0266 0.0501 -0.0109
0.0084 -0.3324 -0.0349 -0.0065 0.8399
-0.2839 -0.0144 -0.2275 0.1087 0.0163
-0.1253 0.0335 0.0738 -0.1119

425. (0.00122) RY*(4) B 15 s(4.05%)p23.00(93.13%)d 0.70(2.82%)
0.0000 0.0019 0.1903 -0.0637 0.0142
-0.0069 0.0046 -0.0150 0.0166 -0.3105
-0.0693 -0.0149 -0.6540 0.6337 0.0551
-0.0537 0.0450 -0.0282 -0.1396

426. (0.00116) RY*(5) B 15 s(30.44%)p 2.25(68.49%)d 0.04(1.07%)
0.0000 -0.0146 0.5434 0.0851 -0.0411
-0.0055 -0.6062 -0.2168 -0.0045 -0.2371
0.1078 0.0165 -0.1548 -0.4223 0.0415
-0.0732 -0.0209 0.0556 0.0073

427. (0.00070) RY*(6) B 15 s(21.47%)p 3.51(75.48%)d 0.14(3.05%)
0.0000 0.0042 0.3546 -0.2927 0.0575
-0.0046 -0.3091 0.5999 -0.0144 -0.0195
-0.0851 -0.0052 0.4305 0.3258 -0.0770
0.1534 -0.0314 -0.0029 -0.0036

428. (0.00037) RY*(7) B 15 s(9.45%)p 2.23(21.11%)d 7.35(69.44%)
0.0000 0.0045 0.2969 0.0794 -0.0033
0.0081 0.1903 -0.2524 -0.0109 0.0812
-0.3211 -0.0054 -0.0149 -0.0323 0.0147
0.8066 0.1078 -0.1658 0.0664

429. (0.00028) RY*(8) B 15 s(12.94%)p 2.01(25.96%)d 4.72(61.10%)
0.0000 0.0067 0.1224 0.3329 -0.0591
-0.0081 -0.0004 -0.1255 0.0237 0.0939
0.3616 0.0081 0.1040 0.3046 -0.3438
0.0558 0.3439 0.4670 0.3916

430. (0.00024) RY*(9) B 15 s(74.84%)p 0.24(17.71%)d 0.10(7.45%)
0.0000 0.0009 -0.0442 0.8590 -0.0927
0.0127 -0.0674 0.3822 -0.0069 -0.0977
-0.1227 0.0026 0.0212 0.0349 0.1735
0.0018 -0.0536 -0.1867 -0.0816

431. (0.00017) RY*(10) B 15 s(0.98%)p66.88(65.45%)d34.30(33.57%)
0.0000 0.0001 -0.0237 -0.0396 0.0875

					0.0007	0.0986	0.2255	-0.0002	-0.2033
					-0.6809	0.0028	-0.1533	-0.2558	-0.1782
					-0.1948	0.2331	0.3130	0.3372	
432.	(0.00009)	RY*(11)	B	15	s(24.56%)	p 0.14(3.34%)	d 2.94(72.10%)		
433.	(0.00006)	RY*(12)	B	15	s(66.86%)	p 0.02(1.52%)	d 0.47(31.62%)		
434.	(0.00005)	RY*(13)	B	15	s(7.62%)	p 0.14(1.05%)	d11.99(91.34%)		
435.	(0.00003)	RY*(14)	B	15	s(1.73%)	p 1.07(1.86%)	d55.85(96.42%)		
436.	(0.00549)	RY*(1)	C	16	s(2.24%)	p41.31(92.37%)	d 2.41(5.39%)		
					0.0000	0.0206	0.0790	0.1247	0.0121
					0.0222	0.6832	-0.0792	0.0080	0.6009
					-0.1050	-0.0211	-0.2772	0.0288	-0.1876
					0.1151	-0.0123	0.0074	0.0724	
437.	(0.00277)	RY*(2)	C	16	s(28.97%)	p 1.78(51.67%)	d 0.67(19.36%)		
					0.0000	-0.0087	0.5181	-0.1454	0.0080
					0.0071	-0.1147	0.3833	-0.0112	0.3265
					-0.1112	-0.0387	0.4850	0.0280	-0.2426
					-0.3335	-0.1455	0.0433	0.0227	
438.	(0.00260)	RY*(3)	C	16	s(13.29%)	p 5.31(70.55%)	d 1.22(16.16%)		
					0.0000	-0.0023	0.3522	-0.0938	0.0050
					-0.0149	0.4285	0.4083	0.0437	-0.4829
					0.0378	-0.0074	-0.0694	0.3372	0.2339
					0.1710	-0.0062	-0.1996	0.1944	
439.	(0.00186)	RY*(4)	C	16	s(28.13%)	p 2.48(69.86%)	d 0.07(2.00%)		
					0.0000	-0.0024	0.5083	-0.1513	-0.0073
					0.0309	-0.3442	-0.0135	0.0079	0.1344
					0.3091	0.0151	-0.6541	-0.1931	0.0472
					-0.0167	-0.0372	-0.1270	-0.0041	
440.	(0.00133)	RY*(5)	C	16	s(6.41%)	p 7.59(48.62%)	d 7.02(44.98%)		
					0.0000	-0.0015	0.2388	-0.0833	-0.0088
					0.0111	0.3627	-0.2105	-0.0015	-0.3063
					0.3580	-0.0018	0.1418	-0.2609	-0.2453
					-0.0837	0.1305	0.2109	-0.5666	
441.	(0.00128)	RY*(6)	C	16	s(4.51%)	p 7.19(32.45%)	d13.98(63.04%)		
					0.0000	-0.0011	0.1908	-0.0927	-0.0097
					0.0092	0.0676	-0.1348	0.0050	0.1238
					0.1387	0.0138	0.2999	-0.4206	0.4406
					0.2437	0.3141	0.2996	0.4342	
442.	(0.00081)	RY*(7)	C	16	s(16.87%)	p 3.25(54.78%)	d 1.68(28.34%)		
					0.0000	-0.0106	0.3825	0.1488	-0.0136
					0.0074	-0.0883	-0.3068	0.0090	-0.0527
					-0.6562	0.0000	0.0750	-0.0823	0.1551
					0.2512	0.1229	-0.2864	-0.3149	
443.	(0.00077)	RY*(8)	C	16	s(18.69%)	p 2.63(49.13%)	d 1.72(32.18%)		
					0.0000	-0.0083	0.2866	0.3234	-0.0086
					0.0061	-0.0512	-0.5113	-0.0014	-0.1637
					0.0226	-0.0078	-0.0286	0.4461	-0.1261
					-0.3293	0.0969	0.2635	0.3445	
444.	(0.00044)	RY*(9)	C	16	s(73.93%)	p 0.28(20.42%)	d 0.08(5.65%)		
					0.0000	0.0027	0.0413	0.8588	-0.0035
					0.0013	-0.0086	0.2912	0.0078	-0.0163
					0.2020	-0.0017	0.0475	-0.2755	0.0704
					-0.1107	0.0536	-0.1900	-0.0198	
445.	(0.00019)	RY*(10)	C	16	s(1.13%)	p28.00(31.76%)	d59.16(67.11%)		
					0.0000	0.0018	0.0084	0.1010	-0.0326
					0.0189	-0.1367	0.3567	-0.0079	0.1467
					-0.1078	0.0148	-0.1862	0.3213	0.1813
					0.0812	0.4460	0.5544	-0.3539	
446.	(0.00013)	RY*(11)	C	16	s(4.92%)	p 1.83(9.01%)	d17.49(86.07%)		
					0.0000	-0.0084	0.1128	0.1625	-0.1001
					0.0072	-0.2070	0.0276	0.0038	-0.0388
					0.1456	0.0038	0.1156	0.1016	-0.4632
					0.7515	-0.2086	0.1753	0.0844	
447.	(0.00008)	RY*(12)	C	16	s(0.04%)	p99.99(68.09%)	d99.99(31.87%)		
448.	(0.00004)	RY*(13)	C	16	s(2.30%)	p 0.67(1.54%)	d41.90(96.16%)		
449.	(0.00001)	RY*(14)	C	16	s(98.53%)	p 0.00(0.12%)	d 0.01(1.35%)		
450.	(0.00554)	RY*(1)	N	17	s(5.76%)	p14.80(85.26%)	d 1.56(8.99%)		
					0.0000	-0.0042	0.2247	-0.0841	-0.0004
					-0.0062	0.4138	-0.0290	0.0095	-0.3984
					-0.0005	-0.0147	0.7220	-0.0106	0.1665
					-0.1190	0.1390	0.1242	-0.1150	
451.	(0.00483)	RY*(2)	N	17	s(0.38%)	p99.99(98.01%)	d 4.22(1.61%)		

				0.0000	0.0007	0.0615	-0.0057	-0.0003
				-0.0034	0.3447	0.0120	0.0048	-0.6943
				0.0020	0.0070	-0.6156	-0.0007	-0.0384
				-0.0193	0.0242	-0.0113	-0.1163	
452.	(0.00166)	RY*(3)	N 17	s(0.27%)	p99.99(92.92%)	d25.30(6.81%)		
				0.0000	0.0044	0.0414	-0.0309	-0.0003
				-0.0140	-0.7997	-0.1335	-0.0100	-0.5050
				-0.0366	0.0041	0.1223	-0.0120	0.1209
				-0.2048	-0.0534	-0.0933	-0.0011	
453.	(0.00121)	RY*(4)	N 17	s(90.75%)	p 0.06(5.46%)	d 0.04(3.79%)		
				0.0000	0.0060	0.9475	0.0985	0.0013
				0.0068	-0.0454	-0.0395	-0.0072	0.1698
				0.0100	0.0025	-0.1431	-0.0378	0.0345
				-0.0460	0.0258	-0.1430	0.1162	
454.	(0.00075)	RY*(5)	N 17	s(0.64%)	p 2.23(1.43%)	d99.99(97.92%)		
				0.0000	0.0004	0.0753	0.0277	0.0006
				-0.0074	-0.0522	0.0559	0.0000	-0.0143
				-0.0380	0.0058	0.0000	-0.0821	-0.6058
				-0.4131	-0.0424	0.6403	0.1728	
455.	(0.00065)	RY*(6)	N 17	s(1.23%)	p 9.24(11.34%)	d71.23(87.43%)		
				0.0000	0.0014	0.1095	0.0164	0.0015
				-0.0253	-0.2309	0.1759	-0.0174	-0.0979
				0.1357	0.0027	0.0041	-0.0131	-0.0408
				0.6979	0.4447	0.4229	-0.0951	
456.	(0.00032)	RY*(7)	N 17	s(0.90%)	p 1.94(1.74%)	d99.99(97.37%)		
				0.0000	0.0000	0.0738	0.0591	0.0045
				-0.0056	-0.0693	-0.0101	0.0039	0.0801
				-0.0116	0.0101	0.0704	-0.0282	-0.4384
				-0.0176	-0.0240	-0.2153	-0.8569	
457.	(0.00014)	RY*(8)	N 17	s(0.15%)	p73.97(11.19%)	d99.99(88.66%)		
				0.0000	-0.0009	0.0040	0.0377	0.0087
				0.0019	0.0512	-0.0452	-0.0092	-0.2222
				0.0658	0.0082	0.2272	0.0414	-0.5944
				0.3875	-0.2009	-0.4243	0.4035	
458.	(0.00014)	RY*(9)	N 17	s(62.68%)	p 0.45(27.96%)	d 0.15(9.36%)		
				0.0000	0.0055	-0.0896	0.7866	-0.0033
				0.0029	-0.0075	0.3874	0.0006	-0.0603
				0.3465	-0.0022	0.0604	0.0459	0.0384
				-0.2047	0.1763	-0.1298	0.0479	
459.	(0.00010)	RY*(10)	N 17	s(0.46%)	p99.99(97.69%)	d 4.05(1.86%)		
460.	(0.00005)	RY*(11)	N 17	s(26.19%)	p 2.68(70.23%)	d 0.14(3.58%)		
461.	(0.00005)	RY*(12)	N 17	s(5.75%)	p 0.54(3.13%)	d15.85(91.12%)		
462.	(0.00004)	RY*(13)	N 17	s(4.96%)	p18.89(93.78%)	d 0.25(1.26%)		
463.	(0.00000)	RY*(14)	N 17	s(99.92%)	p 0.00(0.01%)	d 0.00(0.07%)		
464.	(0.00366)	RY*(1)	C 18	s(0.01%)	p 1.00(84.57%)	d 0.18(15.42%)		
				0.0000	0.0010	0.0053	0.0059	0.0019
				0.0051	0.2317	-0.0148	-0.0128	-0.6379
				0.1981	-0.0141	-0.5460	0.2174	-0.0851
				-0.1770	-0.0165	0.2239	0.2554	
465.	(0.00314)	RY*(2)	C 18	s(9.39%)	p 8.44(79.29%)	d 1.21(11.32%)		
				0.0000	-0.0063	0.3062	-0.0101	0.0060
				0.0163	0.8138	-0.0156	0.0108	0.0021
				-0.1062	-0.0030	0.3290	0.1021	0.0868
				0.0472	0.1541	0.2266	-0.1683	
466.	(0.00146)	RY*(3)	C 18	s(1.03%)	p89.42(91.82%)	d 6.97(7.15%)		
				0.0000	0.0032	-0.0482	0.0890	-0.0029
				0.0022	0.2158	-0.1212	-0.0299	0.6062
				0.1893	0.0324	-0.6402	-0.2045	0.0301
				0.0459	0.1327	0.1790	-0.1373	
467.	(0.00107)	RY*(4)	C 18	s(63.84%)	p 0.50(31.93%)	d 0.07(4.23%)		
				0.0000	0.0057	0.7978	-0.0390	-0.0185
				-0.0119	-0.1923	0.4223	-0.0008	0.0288
				0.3025	0.0027	-0.1069	0.0089	-0.1059
				0.0966	-0.0458	-0.0923	-0.1054	
468.	(0.00069)	RY*(5)	C 18	s(2.97%)	p 3.82(11.36%)	d28.82(85.67%)		
				0.0000	0.0010	0.1719	-0.0125	0.0004
				-0.0014	-0.0730	0.0507	-0.0082	0.2036
				-0.0309	-0.0052	0.1503	-0.2015	0.2202
				-0.0511	0.0871	0.3626	0.8164	
469.	(0.00044)	RY*(6)	C 18	s(9.86%)	p 8.40(82.83%)	d 0.74(7.31%)		
				0.0000	-0.0084	0.3119	0.0281	0.0215

					-0.0170	-0.0041	-0.7933	0.0016	-0.1190
					0.2810	-0.0054	0.1002	-0.3090	0.0038
					-0.0380	-0.2055	-0.1699	0.0232	
470.	(0.00024)	RY*(7)	C	18	s(11.08%)	p 7.16(79.35%)	d 0.86(9.57%)		
					0.0000	0.0155	-0.2130	0.2496	-0.0542
					0.0027	0.2275	0.3480	0.0004	-0.2093
					0.2619	-0.0015	0.1156	-0.7035	-0.1597
					-0.0609	0.1393	-0.2142	0.0342	
471.	(0.00016)	RY*(8)	C	18	s(7.15%)	p11.97(85.60%)	d 1.01(7.25%)		
					0.0000	-0.0084	0.2541	0.0611	0.0562
					-0.0067	0.0066	-0.0197	-0.0004	-0.1038
					-0.8032	-0.0015	-0.2698	-0.3560	-0.2204
					-0.0224	-0.1521	-0.0088	-0.0153	
472.	(0.00011)	RY*(9)	C	18	s(0.38%)	p12.63(4.79%)	d99.99(94.83%)		
					0.0000	0.0016	0.0531	-0.0213	-0.0229
					-0.0023	0.1028	0.1476	-0.0223	0.0772
					-0.0499	0.0233	-0.0772	-0.0123	0.5707
					-0.6843	-0.2700	-0.2775	-0.0662	
473.	(0.00009)	RY*(10)	C	18	s(33.08%)	p 0.64(21.23%)	d 1.38(45.69%)		
474.	(0.00002)	RY*(11)	C	18	s(16.47%)	p 0.56(9.27%)	d 4.51(74.26%)		
475.	(0.00003)	RY*(12)	C	18	s(8.89%)	p 0.92(8.18%)	d 9.33(82.93%)		
476.	(0.00003)	RY*(13)	C	18	s(36.93%)	p 0.24(9.01%)	d 1.46(54.06%)		
477.	(0.00000)	RY*(14)	C	18	s(98.98%)	p 0.01(0.90%)	d 0.00(0.12%)		
478.	(0.00371)	RY*(1)	C	19	s(0.52%)	p99.99(84.10%)	d29.63(15.38%)		
					0.0000	-0.0036	0.0688	-0.0208	-0.0020
					-0.0033	-0.1957	0.0562	0.0164	0.7217
					-0.2397	0.0120	0.4546	-0.1191	0.2271
					0.2092	0.0267	-0.2370	-0.0393	
479.	(0.00308)	RY*(2)	C	19	s(9.42%)	p 8.41(79.20%)	d 1.21(11.38%)		
					0.0000	-0.0068	0.3067	-0.0089	0.0047
					0.0116	-0.0629	-0.1432	0.0105	0.4473
					0.0128	-0.0098	-0.7530	0.0009	-0.0002
					-0.1698	-0.1971	-0.1794	0.1181	
480.	(0.00145)	RY*(3)	C	19	s(1.34%)	p68.68(92.07%)	d 4.91(6.59%)		
					0.0000	0.0030	-0.0758	0.0874	-0.0022
					-0.0422	0.8875	0.2465	-0.0024	0.1726
					-0.0824	-0.0134	0.0595	0.1735	0.0044
					-0.0879	-0.1294	-0.1739	0.1054	
481.	(0.00096)	RY*(4)	C	19	s(70.69%)	p 0.39(27.47%)	d 0.03(1.83%)		
					0.0000	0.0054	0.8405	-0.0154	-0.0148
					-0.0059	0.0741	0.2844	-0.0078	-0.1017
					0.3524	0.0093	0.1974	-0.1213	-0.0846
					0.0987	-0.0104	0.0328	-0.0158	
482.	(0.00064)	RY*(5)	C	19	s(0.32%)	p48.50(15.76%)	d99.99(83.91%)		
					0.0000	-0.0030	0.0437	-0.0360	0.0061
					0.0024	-0.1039	0.1408	-0.0086	0.1847
					-0.2341	-0.0024	0.1465	0.1285	-0.5844
					-0.4759	-0.1994	0.2184	-0.4286	
483.	(0.00048)	RY*(6)	C	19	s(6.07%)	p13.32(80.82%)	d 2.16(13.11%)		
					0.0000	-0.0093	0.2422	-0.0411	0.0157
					0.0016	-0.1299	0.2840	-0.0080	-0.1340
					-0.5294	0.0149	-0.1344	0.6278	0.2321
					0.1662	0.1228	0.1763	0.0588	
484.	(0.00025)	RY*(7)	C	19	s(10.53%)	p 7.78(81.89%)	d 0.72(7.58%)		
					0.0000	-0.0150	0.2544	-0.1905	0.0635
					-0.0033	0.1689	-0.7940	-0.0019	-0.0587
					-0.0481	0.0034	0.2593	0.2950	0.1048
					-0.0288	-0.2429	0.0390	-0.0589	
485.	(0.00014)	RY*(8)	C	19	s(3.55%)	p26.13(92.79%)	d 1.03(3.65%)		
					0.0000	-0.0074	0.1819	-0.0342	0.0347
					0.0014	0.1646	-0.1093	-0.0031	-0.2057
					-0.6689	0.0009	-0.0697	-0.6279	-0.1007
					0.0860	-0.0221	0.0849	0.1063	
486.	(0.00011)	RY*(9)	C	19	s(8.78%)	p 0.65(5.72%)	d 9.73(85.49%)		
					0.0000	-0.0044	-0.0437	0.2902	0.0411
					0.0288	-0.0968	-0.0875	0.0028	0.0243
					-0.0154	0.0094	0.0435	0.1912	-0.6254
					0.5200	-0.2088	-0.1262	0.3659	
487.	(0.00010)	RY*(10)	C	19	s(42.48%)	p 0.29(12.31%)	d 1.06(45.21%)		
488.	(0.00005)	RY*(11)	C	19	s(35.64%)	p 0.36(12.78%)	d 1.45(51.59%)		
489.	(0.00002)	RY*(12)	C	19	s(11.04%)	p 0.67(7.42%)	d 7.39(81.54%)		

490.	(0.00003)	RY*(13)	C	19	s(0.43%)p16.77(7.17%)d99.99(92.40%)
491.	(0.00000)	RY*(14)	C	19	s(99.25%)p 0.01(0.62%)d 0.00(0.13%)
492.	(0.00571)	RY*(1)	N	20	s(5.93%)p14.59(86.49%)d 1.28(7.59%) 0.0000 -0.0043 0.2302 -0.0791 -0.0006 0.0165 -0.7529 0.0031 -0.0061 0.4907 -0.0197 0.0045 -0.2369 0.0209 0.0994 -0.2150 -0.0624 -0.1245 -0.0193
493.	(0.00498)	RY*(2)	N	20	s(1.16%)p82.40(95.77%)d 2.64(3.06%) 0.0000 -0.0005 0.1042 -0.0276 0.0002 -0.0004 -0.0128 -0.0048 0.0064 -0.5359 -0.0072 0.0123 -0.8185 0.0113 0.1191 -0.0637 0.0110 -0.0767 0.0799
494.	(0.00169)	RY*(3)	N	20	s(2.89%)p29.88(86.33%)d 3.73(10.78%) 0.0000 0.0039 0.1679 -0.0261 -0.0014 -0.0111 -0.4772 -0.0237 -0.0110 -0.6387 -0.1102 0.0047 0.4546 0.0892 0.1503 -0.1268 0.1482 0.1504 -0.1568
495.	(0.00108)	RY*(4)	N	20	s(84.86%)p 0.12(10.35%)d 0.06(4.79%) 0.0000 0.0057 0.9125 0.1258 0.0022 -0.0013 0.2990 0.0091 0.0067 0.1044 0.0073 -0.0107 0.0285 0.0450 0.0155 0.0444 0.1858 0.0203 -0.1038
496.	(0.00071)	RY*(5)	N	20	s(2.14%)p 0.88(1.88%)d44.94(95.98%) 0.0000 0.0012 0.1337 0.0591 0.0000 -0.0054 -0.0124 0.0674 -0.0055 -0.0531 0.0026 0.0034 0.0513 -0.0928 -0.3902 -0.4361 -0.1709 0.3880 0.6615
497.	(0.00059)	RY*(6)	N	20	s(2.76%)p 5.28(14.61%)d29.90(82.63%) 0.0000 0.0022 0.1563 0.0565 0.0016 -0.0166 -0.1126 0.1241 -0.0214 -0.2148 0.2013 0.0133 0.1679 -0.0474 -0.3431 0.1931 -0.3877 -0.7061 0.1494
498.	(0.00032)	RY*(7)	N	20	s(0.06%)p38.29(2.20%)d99.99(97.74%) 0.0000 -0.0006 0.0229 -0.0069 0.0009 -0.0063 -0.0540 -0.0024 0.0034 0.0342 0.0550 0.0057 0.1148 -0.0402 0.5780 0.3647 0.2040 -0.1017 0.6770
499.	(0.00014)	RY*(8)	N	20	s(74.34%)p 0.20(15.22%)d 0.14(10.44%) 0.0000 0.0055 -0.1416 0.8505 -0.0022 0.0028 -0.1037 0.1889 0.0022 0.0054 0.3148 -0.0021 -0.0391 -0.0714 0.0136 -0.1277 0.2886 -0.0414 -0.0536
500.	(0.00015)	RY*(9)	N	20	s(0.10%)p99.99(13.81%)d99.99(86.09%) 0.0000 0.0007 -0.0044 0.0304 -0.0097 0.0119 0.2761 0.0786 0.0023 0.0006 -0.0946 0.0059 0.1340 -0.1690 0.5291 -0.6301 -0.3196 -0.2796 -0.0602
501.	(0.00009)	RY*(10)	N	20	s(1.26%)p74.43(94.02%)d 3.74(4.72%)
502.	(0.00006)	RY*(11)	N	20	s(12.83%)p 6.35(81.47%)d 0.44(5.70%)
503.	(0.00004)	RY*(12)	N	20	s(5.44%)p17.17(93.44%)d 0.20(1.11%)
504.	(0.00004)	RY*(13)	N	20	s(6.39%)p 0.70(4.49%)d13.94(89.11%)
505.	(0.00000)	RY*(14)	N	20	s(99.88%)p 0.00(0.03%)d 0.00(0.09%)
506.	(0.00680)	RY*(1)	C	21	s(6.19%)p14.04(86.94%)d 1.11(6.86%) 0.0000 0.0060 0.2377 0.0733 -0.0035 -0.0145 0.5127 0.0304 0.0087 -0.4612 -0.0132 -0.0126 0.6261 0.0182 -0.0376 0.1233 -0.2276 0.0142 -0.0019
507.	(0.00357)	RY*(2)	C	21	s(0.05%)p99.99(96.76%)d67.94(3.19%) 0.0000 -0.0035 0.0158 -0.0130 -0.0062 -0.0002 -0.8216 -0.0068 -0.0053 -0.3432 0.0336 0.0001 0.4090 -0.0792 -0.0785 0.0883 0.0394 0.0847 -0.0962
508.	(0.00291)	RY*(3)	C	21	s(0.06%)p99.99(90.61%)d99.99(9.32%) 0.0000 0.0024 0.0224 0.0116 0.0004 -0.0044 0.0124 0.0072 0.0022 -0.7532 0.0372 0.0082 -0.5806 -0.0065 0.1458 0.1322 0.0327 0.0787 0.2173
509.	(0.00116)	RY*(4)	C	21	s(34.42%)p 1.62(55.87%)d 0.28(9.71%) 0.0000 -0.0052 0.5857 0.0290 0.0164 -0.0083 -0.1269 0.2483 0.0023 0.0474 -0.4787 -0.0007 -0.0393 0.4979 0.0324

510.	(0.00089)	RY*(5)	C	21	-0.2223	0.1118	0.1051	0.1519	
					s(26.65%)	p 0.92(24.65%)	d 1.83(48.70%)		
					0.0000	0.0009	-0.1903	0.4799	0.0058
					-0.0077	-0.0070	0.3572	0.0020	0.0212
					-0.3418	-0.0039	0.0178	-0.0349	0.2679
					0.4562	0.1933	-0.3636	-0.1938	
511.	(0.00078)	RY*(6)	C	21	s(39.45%)	p 0.22(8.82%)	d 1.31(51.73%)		
					0.0000	0.0027	-0.3646	0.5114	-0.0017
					0.0071	-0.0044	0.2144	0.0118	0.0263
					-0.1366	-0.0014	0.0666	-0.1350	-0.0992
					-0.2739	-0.1727	0.5208	0.3625	
512.	(0.00068)	RY*(7)	C	21	s(19.49%)	p 3.18(61.96%)	d 0.95(18.56%)		
					0.0000	-0.0020	-0.2521	0.3623	0.0018
					0.0000	-0.0182	-0.2125	-0.0034	-0.1291
					0.2374	-0.0081	-0.0536	0.7058	-0.1912
					-0.1490	-0.1128	-0.1183	-0.3163	
513.	(0.00043)	RY*(8)	C	21	s(10.99%)	p 5.45(59.91%)	d 2.65(29.09%)		
					0.0000	-0.0002	0.1247	0.3072	-0.0054
					-0.0088	-0.0827	-0.6970	-0.0040	-0.0001
					-0.2693	0.0062	0.0378	-0.1801	0.3470
					-0.2288	-0.1438	-0.2659	0.1638	
514.	(0.00039)	RY*(9)	C	21	s(28.62%)	p 0.87(24.89%)	d 1.62(46.49%)		
					0.0000	0.0030	0.4108	0.3428	0.0036
					0.0042	0.0268	0.0781	-0.0068	-0.0571
					0.0460	-0.0097	-0.2306	-0.4282	-0.3235
					-0.2406	-0.0149	0.0409	-0.5481	
515.	(0.00036)	RY*(10)	C	21	s(28.13%)	p 1.55(43.55%)	d 1.01(28.32%)		
					0.0000	0.0027	0.3877	0.3619	0.0036
					-0.0007	-0.0385	-0.0367	0.0048	0.2096
					0.6190	0.0045	0.0367	0.0640	0.3023
					0.2694	0.1837	0.2229	0.1893	
516.	(0.00014)	RY*(11)	C	21	s(2.77%)	p 3.61(9.99%)	d31.55(87.24%)		
					0.0000	-0.0057	0.1637	0.0248	0.0142
					-0.0128	-0.1586	0.0100	0.0142	0.1786
					-0.0614	-0.0160	-0.1923	0.0372	-0.2066
					0.4538	-0.7824	-0.0368	0.1012	
517.	(0.00010)	RY*(12)	C	21	s(0.19%)	p99.99(33.98%)	d99.99(65.83%)		
					0.0000	-0.0017	0.0352	0.0197	-0.0164
					-0.0032	-0.1033	0.4542	-0.0014	-0.0547
					0.3383	0.0004	0.0336	-0.0655	0.1374
					-0.4390	-0.2483	-0.5700	0.2452	
518.	(0.00005)	RY*(13)	C	21	s(3.38%)	p 0.64(2.16%)	d27.98(94.46%)		
519.	(0.00000)	RY*(14)	C	21	s(99.66%)	p 0.00(0.04%)	d 0.00(0.30%)		
520.	(0.00535)	RY*(1)	C	22	s(0.51%)	p99.99(93.02%)	d12.60(6.47%)		
					0.0000	0.0018	0.0289	0.0652	-0.0070
					-0.0108	0.2486	-0.0206	0.0194	-0.7813
					0.0516	0.0122	-0.5042	0.0062	-0.1289
					-0.0204	-0.0041	-0.0381	-0.2149	
521.	(0.00398)	RY*(2)	C	22	s(4.41%)	p20.77(91.62%)	d 0.90(3.97%)		
					0.0000	-0.0064	0.2022	-0.0563	-0.0012
					-0.0069	-0.6975	-0.0712	-0.0062	-0.5012
					-0.1016	-0.0002	0.4030	0.0247	-0.0575
					-0.0577	0.0834	0.1429	0.0757	
522.	(0.00332)	RY*(3)	C	22	s(6.57%)	p12.92(84.87%)	d 1.30(8.56%)		
					0.0000	0.0007	0.2563	0.0005	0.0030
					-0.0089	0.6097	0.0430	-0.0004	-0.2209
					0.0368	0.0051	0.6517	-0.0102	0.0489
					-0.1980	0.1678	-0.1230	0.0270	
523.	(0.00190)	RY*(4)	C	22	s(86.02%)	p 0.13(11.00%)	d 0.03(2.97%)		
					0.0000	-0.0027	0.9273	-0.0175	-0.0007
					-0.0046	-0.0453	-0.0177	-0.0155	0.1814
					0.0508	0.0016	-0.2376	0.1243	0.0383
					0.0775	-0.0899	-0.1161	-0.0265	
524.	(0.00075)	RY*(5)	C	22	s(0.79%)	p63.07(49.97%)	d62.14(49.23%)		
					0.0000	-0.0060	0.0825	0.0313	0.0099
					0.0095	0.0592	-0.3776	-0.0009	0.0181
					0.0353	0.0081	0.0691	-0.5892	0.0073
					0.5777	0.2996	0.1627	-0.2057	
525.	(0.00047)	RY*(6)	C	22	s(1.83%)	p36.13(66.07%)	d17.56(32.10%)		
					0.0000	-0.0030	0.0054	0.1325	0.0263
					0.0081	-0.0096	-0.4489	0.0046	0.0679

					0.6694	0.0063	0.0713	-0.0353	-0.2687
					-0.3120	-0.2972	0.2496	-0.0300	
526.	(0.00045)	RY*(7)	C	22	s(22.15%)	p 1.95(43.11%)	d 1.57(34.74%)		
					0.0000	0.0052	-0.0656	0.4660	0.0008
					-0.0034	-0.0514	-0.0950	0.0053	0.0278
					0.2434	-0.0084	0.0158	0.5992	0.1964
					0.2005	0.4990	0.0412	-0.1340	
527.	(0.00033)	RY*(8)	C	22	s(69.23%)	p 0.35(24.41%)	d 0.09(6.37%)		
					0.0000	0.0001	0.0592	0.8299	-0.0098
					0.0033	-0.0951	0.2858	-0.0091	0.0001
					-0.0840	0.0052	0.0376	-0.3805	0.0599
					-0.1206	-0.1945	-0.0877	-0.0030	
528.	(0.00028)	RY*(9)	C	22	s(2.50%)	p 6.28(15.68%)	d32.74(81.82%)		
					0.0000	0.0019	0.1246	0.0955	0.0188
					0.0147	0.1776	0.1904	0.0029	0.0801
					-0.2642	-0.0081	-0.0936	0.0612	-0.3667
					-0.0811	0.1978	0.7772	0.1842	
529.	(0.00014)	RY*(10)	C	22	s(0.25%)	p90.73(22.90%)	d99.99(76.85%)		
					0.0000	-0.0007	0.0341	-0.0294	-0.0223
					-0.0052	-0.0865	-0.2545	0.0067	0.0982
					-0.0842	-0.0146	-0.2577	-0.2708	0.1740
					-0.6271	0.5650	-0.1200	0.1058	
530.	(0.00013)	RY*(11)	C	22	s(0.08%)	p99.99(10.69%)	d99.99(89.24%)		
					0.0000	-0.0026	0.0023	0.0217	0.0173
					0.0010	0.0851	-0.0469	-0.0070	-0.1825
					0.2143	-0.0109	-0.1196	-0.0610	0.4157
					0.1934	-0.0692	0.1112	0.8155	
531.	(0.00008)	RY*(12)	C	22	s(4.15%)	p20.41(84.64%)	d 2.70(11.21%)		
532.	(0.00004)	RY*(13)	C	22	s(1.81%)	p 1.12(2.04%)	d53.11(96.15%)		
533.	(0.00000)	RY*(14)	C	22	s(99.72%)	p 0.00(0.13%)	d 0.00(0.16%)		
534.	(0.00409)	RY*(1)	C	23	s(1.83%)	p48.80(89.18%)	d 4.92(8.99%)		
					0.0000	0.0051	0.1349	-0.0072	0.0027
					-0.0001	0.0664	0.0540	0.0097	0.2980
					-0.1151	0.0240	0.8828	0.0491	0.1462
					-0.0201	0.1144	0.0508	0.2291	
535.	(0.00148)	RY*(2)	C	23	s(0.03%)	p99.99(97.90%)	d62.27(2.07%)		
					0.0000	0.0065	-0.0092	0.0127	0.0067
					-0.0159	-0.0861	0.1681	0.0155	-0.9117
					0.0936	-0.0040	0.3195	0.0283	-0.0200
					-0.1288	-0.0078	-0.0602	0.0051	
536.	(0.00141)	RY*(3)	C	23	s(2.11%)	p44.20(93.20%)	d 2.23(4.69%)		
					0.0000	0.0016	0.1436	-0.0203	0.0071
					-0.0082	0.9190	-0.1511	0.0143	-0.1616
					-0.1670	-0.0068	-0.0317	0.0959	-0.0850
					0.1122	0.1104	0.0762	-0.0956	
537.	(0.00067)	RY*(4)	C	23	s(86.84%)	p 0.07(5.67%)	d 0.09(7.49%)		
					0.0000	-0.0004	0.9197	-0.1499	-0.0070
					0.0052	-0.0849	0.1611	-0.0170	0.0033
					-0.0471	-0.0129	-0.1380	-0.0419	0.1006
					-0.1507	-0.0491	-0.1915	-0.0550	
538.	(0.00046)	RY*(5)	C	23	s(5.05%)	p 1.36(6.85%)	d17.46(88.10%)		
					0.0000	-0.0001	0.2246	-0.0012	0.0000
					-0.0033	-0.2163	-0.1216	-0.0104	-0.0625
					-0.0539	-0.0011	0.0012	0.0042	-0.3611
					0.0268	0.2350	0.8313	-0.0607	
539.	(0.00015)	RY*(6)	C	23	s(5.74%)	p 8.95(51.40%)	d 7.47(42.86%)		
					0.0000	-0.0082	0.1779	0.1582	-0.0255
					-0.0106	0.0304	-0.4017	0.0093	-0.1001
					0.3480	-0.0124	0.0583	-0.4657	0.1234
					0.4389	-0.3608	0.0813	0.2898	
540.	(0.00011)	RY*(7)	C	23	s(6.63%)	p 4.94(32.75%)	d 9.15(60.62%)		
					0.0000	-0.0088	0.0787	0.2442	0.0191
					0.0090	-0.0891	-0.4447	-0.0163	0.0425
					0.2717	-0.0023	0.1646	-0.1370	-0.2254
					-0.0777	0.4720	-0.3499	-0.4519	
541.	(0.00009)	RY*(8)	C	23	s(9.35%)	p 6.55(61.20%)	d 3.15(29.45%)		
542.	(0.00005)	RY*(9)	C	23	s(16.43%)	p 1.05(17.24%)	d 4.04(66.32%)		
543.	(0.00003)	RY*(10)	C	23	s(0.46%)	p99.99(86.90%)	d27.51(12.64%)		
544.	(0.00003)	RY*(11)	C	23	s(63.04%)	p 0.16(10.03%)	d 0.43(26.92%)		
545.	(0.00002)	RY*(12)	C	23	s(1.38%)	p12.05(16.63%)	d59.44(81.99%)		
546.	(0.00002)	RY*(13)	C	23	s(4.44%)	p 6.97(30.92%)	d14.58(64.65%)		

547.	(0.00000)	RY*(14)	C	23	s(96.71%)p 0.00(0.29%)d 0.03(3.00%)
548.	(0.00400)	RY*(1)	C	24	s(1.02%)p89.09(90.72%)d 8.12(8.27%) 0.0000 0.0005 0.0910 0.0433 0.0057 0.0144 0.4540 -0.0256 -0.0170 -0.5718 0.0327 0.0228 0.6082 -0.0379 -0.0184 0.1392 -0.2467 0.0401 -0.0216
549.	(0.00185)	RY*(2)	C	24	s(0.03%)p99.99(99.85%)d 3.53(0.12%) 0.0000 -0.0002 0.0114 0.0142 0.0002 0.0101 -0.2531 -0.0726 -0.0253 0.5672 0.2059 -0.0276 0.7146 0.2300 0.0135 0.0273 -0.0012 -0.0157 0.0003
550.	(0.00092)	RY*(3)	C	24	s(0.18%)p99.99(90.28%)d53.28(9.54%) 0.0000 0.0018 0.0310 0.0287 0.0005 -0.0050 -0.7765 0.1861 -0.0017 -0.4900 0.1086 0.0003 0.1142 -0.0192 -0.0056 -0.2457 -0.1539 -0.0720 0.0783
551.	(0.00055)	RY*(4)	C	24	s(80.54%)p 0.02(2.01%)d 0.22(17.45%) 0.0000 -0.0014 0.8898 0.1166 0.0075 -0.0054 0.0549 0.0086 0.0091 0.0986 -0.0079 -0.0115 -0.0687 0.0479 -0.1743 -0.2763 -0.0695 0.2399 0.0731
552.	(0.00048)	RY*(5)	C	24	s(18.12%)p 0.13(2.39%)d 4.39(79.48%) 0.0000 -0.0001 0.4212 0.0618 -0.0032 -0.0114 -0.1286 0.0031 -0.0005 -0.0722 -0.0377 -0.0029 -0.0246 0.0025 0.3748 0.5369 0.2316 -0.5350 -0.1622
553.	(0.00020)	RY*(6)	C	24	s(0.07%)p99.99(34.69%)d99.99(65.24%) 0.0000 0.0015 0.0124 0.0226 -0.0036 0.0087 -0.0422 0.1717 -0.0212 0.1059 -0.3749 -0.0238 0.1390 -0.3788 0.3722 0.1126 0.0290 0.2088 0.6759
554.	(0.00007)	RY*(7)	C	24	s(37.25%)p 0.98(36.56%)d 0.70(26.19%)
555.	(0.00005)	RY*(8)	C	24	s(4.61%)p18.00(83.04%)d 2.68(12.35%)
556.	(0.00004)	RY*(9)	C	24	s(1.06%)p22.74(24.13%)d70.53(74.81%)
557.	(0.00004)	RY*(10)	C	24	s(0.45%)p99.99(65.52%)d74.91(34.02%)
558.	(0.00001)	RY*(11)	C	24	s(52.15%)p 0.31(16.29%)d 0.61(31.56%)
559.	(0.00000)	RY*(12)	C	24	s(97.88%)p 0.01(0.74%)d 0.01(1.37%)
560.	(0.00001)	RY*(13)	C	24	s(6.40%)p 4.96(31.74%)d 9.67(61.86%)
561.	(0.00000)	RY*(14)	C	24	s(0.28%)p79.46(22.17%)d99.99(77.55%)
562.	(0.00401)	RY*(1)	C	25	s(1.50%)p59.38(89.34%)d 6.09(9.16%) 0.0000 0.0053 0.1206 -0.0214 0.0028 0.0110 0.4291 0.0333 -0.0207 -0.7628 -0.0539 -0.0089 -0.3270 0.1260 -0.0990 -0.1168 0.1024 -0.0742 -0.2282
563.	(0.00145)	RY*(2)	C	25	s(0.11%)p99.99(98.42%)d12.77(1.46%) 0.0000 0.0073 0.0313 0.0047 0.0094 -0.0056 0.3971 0.0173 0.0076 -0.1520 -0.0980 -0.0280 0.8895 0.0366 -0.0058 0.0194 0.0922 0.0416 0.0631
564.	(0.00127)	RY*(3)	C	25	s(0.07%)p99.99(92.17%)d99.99(7.76%) 0.0000 -0.0033 0.0208 0.0151 0.0004 0.0119 0.7074 -0.2628 0.0059 0.5128 -0.1449 0.0023 -0.2595 0.0285 -0.1161 0.0668 0.0668 0.2341 -0.0208
565.	(0.00061)	RY*(4)	C	25	s(90.64%)p 0.04(3.50%)d 0.06(5.85%) 0.0000 -0.0008 0.9445 -0.1199 -0.0043 -0.0072 -0.0344 0.0209 0.0104 0.1153 0.0983 0.0192 0.0119 0.0990 0.1020 -0.1840 -0.0481 -0.0129 0.1084
566.	(0.00048)	RY*(5)	C	25	s(3.83%)p 1.68(6.43%)d23.41(89.74%) 0.0000 -0.0001 0.1910 -0.0429 0.0025 0.0064 -0.1979 -0.1163 0.0061 -0.0787 -0.0627 0.0041 -0.0006 0.0367 0.0694 0.7194 0.5108 0.2438 -0.2339
567.	(0.00015)	RY*(6)	C	25	s(1.36%)p20.82(28.41%)d51.46(70.23%) 0.0000 -0.0056 0.1160 -0.0011 -0.0123 -0.0093 0.0366 -0.2169 0.0090 -0.0115 0.3688 -0.0187 0.1173 -0.2919 -0.3558 0.2734 -0.5214 -0.0923 -0.4696
568.	(0.00008)	RY*(7)	C	25	s(1.65%)p39.36(65.07%)d20.13(33.28%)
569.	(0.00006)	RY*(8)	C	25	s(21.87%)p 2.46(53.82%)d 1.11(24.31%)

570.	(0.00005)	RY*(9)	C	25	s(19.03%)p 2.48(47.19%)d 1.78(33.78%)
571.	(0.00005)	RY*(10)	C	25	s(12.87%)p 1.94(24.99%)d 4.83(62.15%)
572.	(0.00002)	RY*(11)	C	25	s(0.67%)p40.14(26.95%)d99.99(72.38%)
573.	(0.00001)	RY*(12)	C	25	s(1.07%)p27.50(29.45%)d64.89(69.48%)
574.	(0.00002)	RY*(13)	C	25	s(47.54%)p 0.72(34.21%)d 0.38(18.26%)
575.	(0.00000)	RY*(14)	C	25	s(97.81%)p 0.00(0.21%)d 0.02(1.99%)
576.	(0.00511)	RY*(1)	C	26	s(0.88%)p99.99(92.22%)d 7.82(6.89%) 0.0000 0.0005 -0.0414 0.0842 -0.0036 0.0012 -0.1827 0.0080 -0.0110 0.5261 -0.0126 -0.0224 0.7811 -0.0320 0.1019 0.0521 -0.0218 0.0684 0.2252
577.	(0.00300)	RY*(2)	C	26	s(0.60%)p99.99(91.61%)d13.10(7.80%) 0.0000 0.0023 0.0771 -0.0015 0.0021 0.0058 0.9315 0.0917 -0.0010 0.1550 0.0537 -0.0026 0.1126 -0.0168 -0.0332 -0.2631 0.0019 0.0347 0.0802
578.	(0.00288)	RY*(3)	C	26	s(4.94%)p17.52(86.54%)d 1.72(8.52%) 0.0000 -0.0013 0.2221 0.0066 0.0044 0.0013 0.0467 -0.0441 -0.0048 -0.7572 -0.0323 -0.0025 0.5345 0.0345 0.1016 -0.0308 0.2574 -0.0870 0.0080
579.	(0.00144)	RY*(4)	C	26	s(89.11%)p 0.09(8.24%)d 0.03(2.65%) 0.0000 -0.0024 0.9434 -0.0323 -0.0048 -0.0025 -0.0907 0.0600 -0.0013 0.1873 -0.1425 0.0123 -0.0873 0.0862 0.0161 -0.0040 -0.1249 -0.1028 -0.0064
580.	(0.00075)	RY*(5)	C	26	s(5.56%)p 2.39(13.31%)d14.58(81.13%) 0.0000 -0.0032 0.1784 0.1541 0.0073 -0.0119 -0.0614 -0.2064 -0.0122 -0.0672 0.2003 0.0069 0.0133 -0.2039 -0.4164 -0.0621 0.0702 0.7931 -0.0052
581.	(0.00052)	RY*(6)	C	26	s(24.38%)p 2.53(61.78%)d 0.57(13.84%) 0.0000 0.0072 -0.0640 0.4895 -0.0004 -0.0051 -0.0321 0.3459 0.0092 0.0214 -0.6922 -0.0068 -0.0838 -0.1016 0.0616 -0.1742 0.2797 0.1525 -0.0522
582.	(0.00044)	RY*(7)	C	26	s(33.67%)p 1.12(37.87%)d 0.85(28.46%) 0.0000 -0.0012 0.0938 0.5726 0.0064 0.0165 0.1341 -0.1613 -0.0021 -0.0174 0.2458 0.0039 -0.0774 -0.5173 0.2498 0.4285 -0.0496 -0.1899 0.0083
583.	(0.00028)	RY*(8)	C	26	s(29.52%)p 1.93(56.96%)d 0.46(13.52%) 0.0000 -0.0012 0.0201 0.5427 -0.0164 -0.0051 -0.1002 0.0415 0.0049 0.0630 0.4634 0.0039 -0.0583 0.5793 0.0014 -0.2812 0.2106 -0.1085 -0.0005
584.	(0.00020)	RY*(9)	C	26	s(6.31%)p 1.26(7.98%)d13.57(85.70%) 0.0000 0.0005 -0.0634 0.2431 -0.0042 -0.0038 -0.0981 -0.0401 -0.0127 -0.2231 -0.0791 0.0062 0.0627 -0.0917 -0.0659 -0.4469 -0.7830 -0.0740 0.1855
585.	(0.00013)	RY*(10)	C	26	s(0.00%)p 1.00(19.38%)d 4.16(80.62%) 0.0000 -0.0016 0.0020 0.0051 -0.0032 -0.0062 -0.0771 0.1463 0.0112 0.1059 0.1333 0.0041 0.1974 -0.3135 -0.3838 -0.2364 0.0397 -0.3061 -0.7125
586.	(0.00011)	RY*(11)	C	26	s(4.82%)p 9.66(46.56%)d10.09(48.62%) 0.0000 -0.0030 -0.0603 0.2110 0.0063 0.0068 0.1971 -0.3081 -0.0010 -0.0092 -0.3225 0.0112 0.1350 0.4575 -0.3149 0.4722 -0.2619 -0.0036 -0.3090
587.	(0.00009)	RY*(12)	C	26	s(0.02%)p99.99(75.33%)d99.99(24.65%)
588.	(0.00004)	RY*(13)	C	26	s(0.49%)p 4.67(2.31%)d99.99(97.20%)
589.	(0.00000)	RY*(14)	C	26	s(99.72%)p 0.00(0.05%)d 0.00(0.22%)
590.	(0.00369)	RY*(1)	C	27	s(7.32%)p11.63(85.14%)d 1.03(7.54%) 0.0000 0.0043 0.2566 0.0852 0.0085 -0.0168 -0.4806 0.0086 0.0023 0.1484 -0.0246 -0.0255 -0.7709 0.0505 -0.0744 0.2466 -0.0618 0.0701 -0.0172
591.	(0.00170)	RY*(2)	C	27	s(9.77%)p 8.29(80.99%)d 0.94(9.24%) 0.0000 0.0011 0.3032 0.0760 0.0074

				0.0012	-0.4057	0.0502	0.0015	-0.7697
				0.0687	-0.0031	0.2112	-0.0323	-0.1825
				-0.0066	0.1495	0.0167	0.1908	
592.	(0.00140)	RY*(3)	C 27	s(6.28%)	p11.20(70.31%)	d 3.73(23.42%)		
				0.0000	0.0085	0.2059	0.1414	-0.0183
				-0.0114	-0.4190	0.0113	0.0035	0.4713
				0.3076	-0.0012	0.4587	0.0091	0.0756
				-0.0225	-0.2119	0.3714	0.2123	
593.	(0.00074)	RY*(4)	C 27	s(15.75%)	p 3.52(55.41%)	d 1.83(28.84%)		
				0.0000	0.0031	0.2708	0.2889	-0.0268
				-0.0003	0.2104	-0.5178	0.0087	-0.0945
				0.1880	-0.0027	0.0283	0.4434	0.3737
				0.2871	-0.0720	-0.2344	0.0782	
594.	(0.00059)	RY*(5)	C 27	s(22.77%)	p 2.53(57.61%)	d 0.86(19.62%)		
				0.0000	-0.0025	0.4542	0.1460	0.0066
				-0.0101	0.5335	0.2296	-0.0085	0.0151
				0.4150	-0.0028	-0.1817	-0.1818	-0.1130
				-0.0455	0.2785	0.3216	0.0200	
595.	(0.00037)	RY*(6)	C 27	s(36.87%)	p 1.44(53.14%)	d 0.27(9.99%)		
				0.0000	-0.0019	0.5484	-0.2597	-0.0197
				-0.0109	0.1544	0.0906	0.0037	0.0260
				-0.6557	-0.0089	0.0970	0.2431	0.0676
				-0.1018	-0.1824	0.2274	-0.0038	
596.	(0.00029)	RY*(7)	C 27	s(1.63%)	p11.44(18.70%)	d48.73(79.66%)		
				0.0000	-0.0011	-0.0458	0.1173	-0.0221
				0.0013	0.1070	0.0386	0.0098	-0.2919
				0.1806	0.0102	-0.1931	-0.1371	0.1403
				-0.3553	-0.7980	0.0957	-0.0689	
597.	(0.00025)	RY*(8)	C 27	s(17.52%)	p 1.79(31.34%)	d 2.92(51.14%)		
				0.0000	0.0014	-0.2452	0.3379	0.0298
				0.0109	-0.0481	-0.1893	-0.0024	-0.0517
				-0.0641	0.0079	-0.0823	0.5114	-0.2067
				-0.4333	0.2115	0.4320	-0.2226	
598.	(0.00019)	RY*(9)	C 27	s(1.95%)	p30.95(60.46%)	d19.24(37.59%)		
				0.0000	0.0049	0.1043	-0.0842	0.0393
				0.0152	-0.1480	0.5900	0.0024	0.0013
				0.2568	-0.0019	0.0670	0.4048	0.2758
				-0.0914	0.0554	-0.2855	-0.4549	
599.	(0.00016)	RY*(10)	C 27	s(8.38%)	p 1.78(14.92%)	d 9.15(76.70%)		
				0.0000	0.0007	0.0940	0.2712	0.0378
				-0.0056	0.1112	0.1970	-0.0180	0.1916
				-0.0297	0.0046	0.0233	0.2439	-0.5949
				-0.1443	-0.1949	-0.4841	0.3463	
600.	(0.00011)	RY*(11)	C 27	s(24.17%)	p 1.22(29.49%)	d 1.92(46.34%)		
				0.0000	-0.0025	-0.2651	0.4136	-0.0171
				-0.0027	0.0596	0.4585	0.0126	-0.0761
				-0.2540	0.0152	-0.0850	0.0573	0.4284
				0.1222	0.0838	0.1415	0.4878	
601.	(0.00008)	RY*(12)	C 27	s(44.22%)	p 0.65(28.75%)	d 0.61(27.03%)		
602.	(0.00003)	RY*(13)	C 27	s(4.03%)	p 3.43(13.82%)	d20.37(82.15%)		
603.	(0.00000)	RY*(14)	C 27	s(99.27%)	p 0.00(0.16%)	d 0.01(0.57%)		
604.	(0.00154)	RY*(1)	C 28	s(6.61%)	p11.31(74.81%)	d 2.81(18.57%)		
				0.0000	0.0013	-0.1670	0.1956	-0.0047
				-0.0037	0.2667	0.1248	-0.0058	0.0209
				0.0449	-0.0130	-0.8094	-0.0595	0.0400
				-0.3159	-0.2781	0.0572	0.0612	
605.	(0.00098)	RY*(2)	C 28	s(0.99%)	p73.32(72.32%)	d27.07(26.70%)		
				0.0000	0.0015	-0.0504	0.0855	-0.0042
				-0.0123	-0.5298	0.1271	0.0102	0.6408
				0.0149	-0.0010	-0.1072	0.0607	-0.0755
				-0.1115	-0.0081	-0.4963	-0.0497	
606.	(0.00025)	RY*(3)	C 28	s(16.37%)	p 4.90(80.26%)	d 0.21(3.37%)		
				0.0000	0.0067	-0.2362	0.3283	-0.0095
				-0.0079	0.5258	0.3684	-0.0074	0.4121
				0.3535	0.0033	0.3092	0.0007	0.0429
				0.1097	0.1124	0.0625	-0.0573	
607.	(0.00014)	RY*(4)	C 28	s(3.48%)	p20.00(69.57%)	d 7.75(26.95%)		
				0.0000	0.0107	-0.1193	0.1318	-0.0552
				0.0071	-0.4089	-0.1720	-0.0047	-0.0802
				0.6414	-0.0033	0.0794	0.2735	0.2617
				-0.0880	-0.2739	0.3371	0.0684	

608.	(0.00011)	RY*(5)	C	28	s(21.91%)p 3.25(71.31%)d 0.31(6.78%) 0.0000 -0.0132 -0.0870 0.4536 0.0751 0.0026 -0.0074 -0.6613 -0.0027 0.2979 -0.2050 -0.0007 0.0490 -0.3775 -0.0122 0.0352 0.0243 0.2283 0.1168
609.	(0.00008)	RY*(6)	C	28	s(37.88%)p 1.03(38.94%)d 0.61(23.19%)
610.	(0.00004)	RY*(7)	C	28	s(57.02%)p 0.20(11.32%)d 0.56(31.65%)
611.	(0.00003)	RY*(8)	C	28	s(11.49%)p 7.18(82.45%)d 0.53(6.06%)
612.	(0.00001)	RY*(9)	C	28	s(21.84%)p 0.97(21.29%)d 2.60(56.87%)
613.	(0.00001)	RY*(10)	C	28	s(13.28%)p 1.43(19.04%)d 5.10(67.69%)
614.	(0.00001)	RY*(11)	C	28	s(0.80%)p54.81(43.70%)d69.60(55.50%)
615.	(0.00001)	RY*(12)	C	28	s(5.75%)p 2.06(11.86%)d14.33(82.39%)
616.	(0.00000)	RY*(13)	C	28	s(98.81%)p 0.01(0.99%)d 0.00(0.19%)
617.	(0.00001)	RY*(14)	C	28	s(3.77%)p 0.61(2.32%)d24.89(93.91%)
618.	(0.00356)	RY*(1)	C	29	s(2.79%)p32.06(89.42%)d 2.79(7.79%) 0.0000 0.0047 0.1641 0.0302 0.0041 -0.0156 -0.4976 0.0491 0.0239 0.7047 -0.0285 -0.0084 -0.3722 0.0854 -0.1524 0.1486 -0.1678 -0.0546 0.0386
619.	(0.00128)	RY*(2)	C	29	s(0.71%)p99.99(78.58%)d29.36(20.71%) 0.0000 0.0085 0.0020 0.0834 0.0038 -0.0030 0.1214 -0.0067 0.0013 -0.3440 -0.0554 -0.0091 -0.7731 -0.2276 0.0822 0.0652 -0.3037 0.1161 -0.3007
620.	(0.00112)	RY*(3)	C	29	s(0.06%)p99.99(85.15%)d99.99(14.79%) 0.0000 0.0016 0.0199 0.0150 0.0014 0.0026 -0.7529 0.1401 -0.0009 -0.4931 0.1070 -0.0004 0.0942 -0.0399 0.1657 0.2244 0.0899 -0.2415 -0.0604
621.	(0.00066)	RY*(4)	C	29	s(1.06%)p48.76(51.69%)d44.57(47.25%) 0.0000 0.0002 0.1030 -0.0006 -0.0008 -0.0135 0.3230 0.5447 -0.0065 0.1369 0.3032 0.0021 -0.0694 0.0100 0.1016 0.5354 0.3598 -0.1093 -0.1846
622.	(0.00050)	RY*(5)	C	29	s(50.40%)p 0.34(17.28%)d 0.64(32.32%) 0.0000 0.0040 0.7013 0.1101 -0.0066 -0.0108 0.0771 0.0560 0.0146 -0.0781 -0.1786 -0.0074 0.1701 -0.3105 -0.4046 -0.1275 -0.0376 -0.2983 -0.2299
623.	(0.00032)	RY*(6)	C	29	s(8.37%)p 9.07(75.93%)d 1.88(15.70%) 0.0000 -0.0024 0.2679 -0.1052 0.0287 -0.0027 0.0487 0.1830 0.0094 -0.2776 -0.0690 0.0068 -0.2894 0.7468 -0.2040 -0.1769 0.1261 -0.0514 0.2559
624.	(0.00025)	RY*(7)	C	29	s(4.32%)p11.99(51.79%)d10.16(43.89%) 0.0000 0.0001 0.2077 -0.0049 -0.0053 -0.0013 0.0059 -0.4769 0.0037 -0.0205 -0.5123 0.0003 0.0273 0.1637 0.1279 0.5115 0.3013 0.2288 -0.1333
625.	(0.00026)	RY*(8)	C	29	s(15.51%)p 1.18(18.35%)d 4.26(66.14%) 0.0000 -0.0029 0.3936 -0.0107 -0.0067 -0.0037 0.0291 0.0963 -0.0003 0.0450 0.1331 -0.0122 0.2709 0.2830 0.5201 0.0036 -0.5511 0.2255 -0.1907
626.	(0.00017)	RY*(9)	C	29	s(0.20%)p99.99(21.59%)d99.99(78.20%) 0.0000 0.0025 0.0048 0.0442 -0.0079 0.0190 -0.1972 0.3767 0.0066 -0.0782 -0.0690 -0.0042 0.1199 -0.0974 -0.3433 -0.0348 0.0757 0.8073 -0.0743
627.	(0.00014)	RY*(10)	C	29	s(0.88%)p63.71(56.02%)d49.02(43.10%) 0.0000 0.0074 0.0932 -0.0052 -0.0057 0.0020 0.0009 0.4105 -0.0051 0.0673 -0.5549 0.0143 -0.0869 -0.2673 0.4761 -0.1988 0.1309 -0.0350 0.3827
628.	(0.00010)	RY*(11)	C	29	s(17.83%)p 2.21(39.44%)d 2.40(42.72%)
629.	(0.00002)	RY*(12)	C	29	s(95.59%)p 0.02(1.82%)d 0.03(2.59%)
630.	(0.00002)	RY*(13)	C	29	s(2.41%)p 5.42(13.03%)d35.16(84.56%)
631.	(0.00000)	RY*(14)	C	29	s(99.83%)p 0.00(0.12%)d 0.00(0.05%)
632.	(0.00169)	RY*(1)	C	30	s(3.14%)p25.64(80.53%)d 5.20(16.33%) 0.0000 0.0008 -0.1059 0.1419 -0.0064 -0.0027 0.2973 0.0852 0.0136 0.8061

633.	(0.00101)	RY*(2)	C	30	-0.0023 0.0048 0.2433 0.0195 0.3717 0.0593 -0.0953 0.0363 -0.1057 s(2.56%)p29.66(75.87%)d 8.43(21.57%) 0.0000 0.0009 -0.1126 0.1135 -0.0044 -0.0057 -0.0932 0.1002 0.0051 0.2223 -0.0517 -0.0122 -0.8280 0.0452 0.1791 -0.3305 0.0489 -0.0914 0.2524
634.	(0.00032)	RY*(3)	C	30	s(20.08%)p 3.92(78.77%)d 0.06(1.15%) 0.0000 0.0055 -0.3162 0.3172 -0.0125 -0.0144 0.7158 0.3822 -0.0008 -0.3353 0.0188 0.0034 -0.0681 -0.1081 -0.0890 -0.0051 0.0492 0.0268 -0.0199
635.	(0.00017)	RY*(4)	C	30	s(10.75%)p 4.85(52.07%)d 3.46(37.19%) 0.0000 0.0007 0.3006 -0.1305 -0.0085 -0.0013 0.1450 0.2746 0.0012 -0.0626 -0.1860 -0.0115 0.3083 0.5391 0.0880 -0.3978 0.1299 -0.1030 0.4223
636.	(0.00010)	RY*(5)	C	30	s(19.55%)p 3.56(69.64%)d 0.55(10.80%) 0.0000 -0.0172 -0.2065 0.3816 0.0836 -0.0025 0.1276 -0.6569 0.0023 -0.0814 0.2521 -0.0034 0.0330 0.4212 0.0661 0.0874 0.1240 -0.2345 0.1603
637.	(0.00007)	RY*(6)	C	30	s(44.77%)p 0.95(42.32%)d 0.29(12.91%)
638.	(0.00003)	RY*(7)	C	30	s(36.34%)p 0.34(12.28%)d 1.41(51.38%)
639.	(0.00003)	RY*(8)	C	30	s(12.70%)p 4.01(50.92%)d 2.86(36.38%)
640.	(0.00001)	RY*(9)	C	30	s(32.91%)p 0.54(17.74%)d 1.50(49.35%)
641.	(0.00001)	RY*(10)	C	30	s(0.43%)p99.99(94.18%)d12.42(5.39%)
642.	(0.00001)	RY*(11)	C	30	s(13.79%)p 1.33(18.35%)d 4.92(67.86%)
643.	(0.00001)	RY*(12)	C	30	s(0.20%)p13.39(2.70%)d99.99(97.10%)
644.	(0.00001)	RY*(13)	C	30	s(3.54%)p 1.17(4.15%)d26.06(92.31%)
645.	(0.00000)	RY*(14)	C	30	s(99.23%)p 0.01(0.66%)d 0.00(0.11%)
646.	(0.00656)	RY*(1)	C	31	s(6.29%)p13.79(86.69%)d 1.12(7.02%) 0.0000 0.0078 0.2402 0.0716 0.0032 0.0128 -0.6562 -0.0227 -0.0077 0.2615 0.0217 0.0137 -0.6047 -0.0303 0.0154 0.1913 -0.1295 0.1271 -0.0218
647.	(0.00339)	RY*(2)	C	31	s(0.39%)p99.99(96.13%)d 8.82(3.48%) 0.0000 -0.0019 0.0596 -0.0196 -0.0031 -0.0037 -0.6070 0.1027 -0.0029 -0.6412 -0.0270 -0.0002 0.4121 0.0240 -0.0685 0.0424 -0.1163 -0.0855 0.0864
648.	(0.00263)	RY*(3)	C	31	s(0.05%)p99.99(87.83%)d99.99(12.12%) 0.0000 0.0020 0.0230 -0.0034 0.0009 -0.0047 0.2919 0.0019 0.0081 -0.6578 0.0237 0.0051 -0.5984 0.0404 -0.1972 -0.0846 -0.0964 -0.0130 -0.2562
649.	(0.00107)	RY*(4)	C	31	s(42.97%)p 1.19(51.30%)d 0.13(5.73%) 0.0000 -0.0045 0.6545 0.0365 -0.0046 0.0003 0.0677 -0.5544 -0.0048 -0.0515 0.0915 0.0067 0.1182 -0.4195 -0.0037 -0.1283 0.1099 -0.1590 -0.0586
650.	(0.00083)	RY*(5)	C	31	s(4.50%)p 1.42(6.39%)d19.82(89.11%) 0.0000 -0.0006 0.1594 -0.1398 0.0027 -0.0078 -0.0006 -0.0738 -0.0077 -0.0040 0.1276 0.0047 0.0185 0.2042 -0.1803 -0.5435 -0.1456 0.6384 0.3667
651.	(0.00075)	RY*(6)	C	31	s(72.07%)p 0.20(14.69%)d 0.18(13.24%) 0.0000 0.0012 -0.3389 0.7783 -0.0012 0.0061 -0.0498 -0.1070 0.0037 0.0145 0.0218 0.0074 0.0650 -0.3578 -0.1815 -0.1621 -0.2003 0.1627 -0.0811
652.	(0.00059)	RY*(7)	C	31	s(10.98%)p 4.68(51.34%)d 3.43(37.68%) 0.0000 -0.0001 -0.1188 0.3093 -0.0013 0.0049 0.0246 -0.4102 -0.0097 -0.1908 0.3694 -0.0045 -0.0891 0.4045 0.4260 0.2093 0.2021 0.0017 0.3327
653.	(0.00044)	RY*(8)	C	31	s(0.83%)p82.57(68.40%)d37.14(30.77%) 0.0000 -0.0005 0.0039 0.0908 0.0051 -0.0085 -0.0998 -0.3466 -0.0030 0.0011 -0.6216 0.0073 0.0928 0.3986 0.1442 -0.1149 0.1267 0.2099 -0.4622

654.	(0.00035)	RY*(9)	C	31	s(8.93%)p 5.73(51.19%)d 4.46(39.88%) 0.0000 0.0011 0.2181 0.2044 0.0039 0.0019 0.1372 0.3372 -0.0095 -0.1687 -0.5078 -0.0042 -0.1267 -0.2772 0.4195 0.0210 0.1572 0.1550 0.4167
655.	(0.00029)	RY*(10)	C	31	s(46.95%)p 0.97(45.44%)d 0.16(7.60%) 0.0000 0.0027 0.5224 0.4433 0.0063 -0.0014 0.1062 0.4472 0.0030 0.0964 0.1843 0.0011 0.1191 0.4309 -0.0150 -0.0919 -0.0868 -0.1506 -0.1928
656.	(0.00012)	RY*(11)	C	31	s(0.85%)p30.23(25.65%)d86.61(73.50%) 0.0000 0.0006 0.0841 0.0374 0.0020 0.0090 0.1813 -0.2479 0.0006 0.0638 -0.3428 0.0032 0.0090 0.2013 -0.2247 0.2621 -0.6500 -0.2378 0.3698
657.	(0.00013)	RY*(12)	C	31	s(2.66%)p 4.15(11.03%)d32.47(86.31%) 0.0000 -0.0076 0.1580 -0.0309 0.0249 0.0157 0.1866 0.0293 -0.0055 -0.0803 0.1322 0.0156 0.1998 -0.1013 -0.0246 0.6562 -0.1206 0.6075 -0.2199
658.	(0.00005)	RY*(13)	C	31	s(2.93%)p 1.37(4.02%)d31.79(93.05%)
659.	(0.00000)	RY*(14)	C	31	s(99.64%)p 0.00(0.03%)d 0.00(0.33%)
660.	(0.00502)	RY*(1)	C	32	s(0.62%)p99.99(92.33%)d11.33(7.05%) 0.0000 0.0014 0.0108 0.0781 -0.0019 0.0130 -0.4209 0.0333 -0.0189 0.7145 -0.0220 -0.0097 0.4830 -0.0118 -0.1535 -0.0697 -0.0732 0.0647 -0.1804
661.	(0.00294)	RY*(2)	C	32	s(2.28%)p38.97(88.97%)d 3.83(8.74%) 0.0000 0.0009 0.1488 -0.0261 0.0019 0.0002 -0.1167 -0.0031 -0.0034 0.4803 0.0580 -0.0033 -0.8004 -0.0373 0.0177 -0.2386 0.1396 0.0747 0.0718
662.	(0.00278)	RY*(3)	C	32	s(4.86%)p17.97(87.36%)d 1.60(7.78%) 0.0000 -0.0012 0.2200 0.0130 0.0059 -0.0015 -0.8208 -0.0872 -0.0041 -0.4197 -0.0554 -0.0024 -0.0992 0.0562 -0.0443 -0.0552 0.0731 -0.2509 -0.0670
663.	(0.00147)	RY*(4)	C	32	s(88.84%)p 0.10(8.63%)d 0.03(2.52%) 0.0000 -0.0025 0.9398 -0.0720 -0.0048 -0.0142 0.1847 -0.1409 0.0016 0.0180 0.0568 0.0049 0.1575 -0.0616 0.0718 0.0817 0.0040 0.1156 0.0040
664.	(0.00065)	RY*(5)	C	32	s(1.75%)p 6.46(11.34%)d49.54(86.91%) 0.0000 -0.0023 0.1074 0.0773 0.0046 0.0012 0.0066 0.1462 0.0045 -0.0230 -0.2504 -0.0041 0.0113 0.1691 -0.3973 -0.2552 -0.4924 -0.0334 0.6345
665.	(0.00051)	RY*(6)	C	32	s(7.69%)p 9.32(71.63%)d 2.69(20.68%) 0.0000 -0.0065 0.1376 0.2405 0.0090 -0.0111 -0.0039 0.6445 0.0024 0.0078 0.0495 -0.0130 -0.1464 0.5260 -0.0011 0.3651 -0.1012 0.0312 -0.2497
666.	(0.00049)	RY*(7)	C	32	s(54.50%)p 0.63(34.47%)d 0.20(11.03%) 0.0000 0.0043 0.0865 0.7332 0.0013 0.0060 0.1296 0.1231 0.0050 -0.0139 -0.3229 0.0001 -0.0357 -0.4549 0.0283 -0.1052 0.0490 -0.2761 -0.1409
667.	(0.00028)	RY*(8)	C	32	s(28.96%)p 2.14(61.96%)d 0.31(9.07%) 0.0000 -0.0008 -0.0206 0.5375 -0.0172 -0.0052 0.0520 -0.3426 0.0020 -0.0320 0.5768 0.0061 0.0820 0.3988 -0.0289 -0.2474 0.1245 0.0066 0.1147
668.	(0.00021)	RY*(9)	C	32	s(4.28%)p 3.13(13.39%)d19.25(82.34%) 0.0000 0.0001 -0.0418 0.2025 0.0022 -0.0125 -0.2068 0.1483 -0.0102 -0.1967 -0.0718 0.0019 0.0358 -0.1540 0.2235 -0.1349 0.0134 0.8635 0.0969
669.	(0.00015)	RY*(10)	C	32	s(1.98%)p18.74(37.14%)d30.72(60.88%) 0.0000 0.0027 -0.0459 0.1331 0.0013 -0.0067 0.0205 -0.5309 -0.0003 -0.0279 -0.1698 -0.0162 -0.2338 0.0669 -0.2545

670.	(0.00012)	RY*(11)	C	32	0.2601 -0.5104 0.2239 -0.4072
					s(3.93%)p 2.92(11.47%)d21.53(84.60%)
					0.0000 -0.0014 -0.0606 0.1883 -0.0120
					-0.0061 -0.1689 -0.2121 0.0110 0.1903
					-0.0579 0.0015 -0.0297 -0.0234 0.3787
					0.6554 -0.0104 -0.0691 0.5179
671.	(0.00007)	RY*(12)	C	32	s(0.02%)p99.99(74.86%)d99.99(25.13%)
672.	(0.00004)	RY*(13)	C	32	s(1.42%)p 4.50(6.41%)d64.77(92.17%)
673.	(0.00000)	RY*(14)	C	32	s(98.88%)p 0.00(0.19%)d 0.01(0.93%)
674.	(0.00405)	RY*(1)	C	33	s(1.68%)p53.09(89.26%)d 5.39(9.06%)
					0.0000 0.0055 0.1284 -0.0168 0.0035
					-0.0007 -0.0682 -0.1148 -0.0134 -0.4689
					0.0462 -0.0211 -0.8061 -0.0488 0.1574
					-0.0105 0.1414 -0.0957 0.1912
675.	(0.00148)	RY*(2)	C	33	s(0.51%)p99.99(95.52%)d 7.82(3.97%)
					0.0000 0.0052 0.0698 0.0121 0.0057
					0.0212 -0.4082 -0.1524 -0.0103 0.7641
					-0.1432 0.0048 -0.4001 0.0198 -0.1404
					-0.0479 -0.0740 -0.0880 0.0670
676.	(0.00134)	RY*(3)	C	33	s(0.07%)p99.99(92.95%)d99.99(6.98%)
					0.0000 -0.0045 -0.0168 0.0177 -0.0076
					-0.0115 0.8614 -0.1184 0.0106 0.2320
					-0.2176 -0.0063 -0.2055 0.1726 -0.0720
					0.0182 -0.1557 -0.0950 0.1761
677.	(0.00059)	RY*(4)	C	33	s(94.05%)p 0.04(3.29%)d 0.03(2.66%)
					0.0000 -0.0009 0.9606 -0.1328 -0.0046
					-0.0117 0.0654 -0.0649 0.0163 0.0160
					0.0662 0.0129 0.1298 0.0490 0.0061
					-0.1385 -0.0127 0.0123 -0.0841
678.	(0.00046)	RY*(5)	C	33	s(0.48%)p19.90(9.47%)d99.99(90.05%)
					0.0000 -0.0002 0.0581 0.0366 0.0066
					-0.0055 -0.1384 -0.0452 -0.0041 -0.2018
					-0.1198 0.0032 0.1347 0.0159 -0.2763
					0.2828 -0.3065 -0.8041 0.0609
679.	(0.00015)	RY*(6)	C	33	s(1.86%)p16.91(31.50%)d35.76(66.64%)
					0.0000 -0.0049 0.1261 0.0491 -0.0175
					0.0172 -0.0747 0.3984 -0.0072 0.1110
					0.1124 0.0108 -0.0201 0.3534 0.3618
					0.6398 -0.1421 0.1378 0.2949
680.	(0.00009)	RY*(7)	C	33	s(9.31%)p 6.82(63.52%)d 2.92(27.17%)
681.	(0.00008)	RY*(8)	C	33	s(3.11%)p22.94(71.33%)d 8.22(25.56%)
682.	(0.00005)	RY*(9)	C	33	s(9.98%)p 2.09(20.86%)d 6.93(69.16%)
683.	(0.00004)	RY*(10)	C	33	s(6.54%)p12.60(82.36%)d 1.70(11.10%)
684.	(0.00003)	RY*(11)	C	33	s(20.44%)p 0.27(5.55%)d 3.62(74.02%)
685.	(0.00002)	RY*(12)	C	33	s(54.08%)p 0.35(18.92%)d 0.50(27.00%)
686.	(0.00001)	RY*(13)	C	33	s(0.96%)p16.17(15.53%)d86.99(83.51%)
687.	(0.00000)	RY*(14)	C	33	s(96.98%)p 0.00(0.07%)d 0.03(2.94%)
688.	(0.00413)	RY*(1)	C	34	s(0.96%)p94.35(91.02%)d 8.31(8.02%)
					0.0000 0.0011 0.0904 0.0380 0.0061
					-0.0242 -0.7342 0.0528 0.0072 0.1953
					-0.0111 -0.0199 -0.5719 0.0439 0.0297
					0.1888 -0.1667 0.1242 -0.0206
689.	(0.00186)	RY*(2)	C	34	s(0.02%)p99.99(99.98%)d 0.34(0.01%)
					0.0000 0.0001 -0.0084 0.0097 -0.0005
					-0.0133 0.3022 0.1094 0.0269 -0.6581
					-0.2076 0.0251 -0.6140 -0.2042 0.0022
					0.0003 0.0020 0.0066 0.0018
690.	(0.00087)	RY*(3)	C	34	s(0.03%)p99.99(90.29%)d99.99(9.68%)
					0.0000 0.0021 -0.0107 0.0151 0.0000
					-0.0017 -0.5083 0.1148 -0.0036 -0.6400
					0.1537 0.0016 0.4356 -0.0909 0.1402
					0.0732 0.1529 0.0316 -0.2177
691.	(0.00054)	RY*(4)	C	34	s(88.32%)p 0.02(1.50%)d 0.12(10.18%)
					0.0000 -0.0011 0.9347 0.0975 0.0060
					0.0109 0.0221 -0.0595 -0.0062 -0.0648
					-0.0082 0.0116 0.0738 -0.0307 -0.0379
					-0.1876 -0.0142 0.2025 0.1548
692.	(0.00052)	RY*(5)	C	34	s(11.14%)p 0.37(4.17%)d 7.60(84.68%)
					0.0000 -0.0006 0.3087 0.1269 0.0023
					0.0093 0.1144 0.0601 0.0047 0.1208
					0.0245 -0.0014 -0.0523 -0.0836 0.0863

693.	(0.00019)	RY*(6)	C	34	0.4700 0.1323 -0.6408 -0.4364 s(0.01%)p99.99(28.53%)d99.99(71.45%) 0.0000 -0.0003 0.0106 0.0049 0.0003 -0.0106 0.0535 -0.1714 0.0222 -0.1107 0.3392 0.0215 -0.1070 0.3365 0.4997 0.2631 0.2512 -0.1161 0.5648
694.	(0.00007)	RY*(7)	C	34	s(39.08%)p 0.78(30.38%)d 0.78(30.54%)
695.	(0.00005)	RY*(8)	C	34	s(12.97%)p 5.96(77.33%)d 0.75(9.70%)
696.	(0.00003)	RY*(9)	C	34	s(6.97%)p 8.85(61.68%)d 4.50(31.35%)
697.	(0.00003)	RY*(10)	C	34	s(4.70%)p 4.29(20.17%)d15.99(75.13%)
698.	(0.00003)	RY*(11)	C	34	s(31.71%)p 1.85(58.69%)d 0.30(9.59%)
699.	(0.00000)	RY*(12)	C	34	s(98.70%)p 0.00(0.37%)d 0.01(0.93%)
700.	(0.00000)	RY*(13)	C	34	s(5.36%)p 4.00(21.44%)d13.67(73.20%)
701.	(0.00001)	RY*(14)	C	34	s(0.06%)p99.99(14.60%)d99.99(85.34%)
702.	(0.00425)	RY*(1)	C	35	s(1.84%)p48.64(89.43%)d 4.75(8.73%) 0.0000 0.0058 0.1337 -0.0216 0.0035 -0.0152 -0.6070 -0.0703 0.0182 0.6636 -0.0198 0.0085 0.2619 -0.1049 -0.1598 -0.1713 -0.0072 -0.0314 -0.1771
703.	(0.00143)	RY*(2)	C	35	s(0.37%)p99.99(98.30%)d 3.61(1.34%) 0.0000 0.0067 0.0599 0.0019 0.0079 0.0164 -0.4563 -0.0972 0.0047 -0.0732 0.0033 0.0232 -0.8712 0.0110 0.0029 0.0036 0.0489 -0.0647 0.0822
704.	(0.00118)	RY*(3)	C	35	s(0.31%)p99.99(93.27%)d20.50(6.42%) 0.0000 0.0041 0.0428 -0.0359 -0.0009 -0.0040 -0.5557 0.1630 -0.0071 -0.6466 0.2307 0.0058 0.3172 -0.1591 0.0867 -0.1019 0.0912 0.1931 -0.0267
705.	(0.00061)	RY*(4)	C	35	s(92.57%)p 0.04(3.98%)d 0.04(3.45%) 0.0000 -0.0018 0.9568 -0.1009 -0.0055 0.0051 0.1454 0.0569 -0.0141 -0.0505 -0.0429 -0.0184 0.0032 -0.1024 0.0275 -0.0672 -0.0311 -0.0805 0.1476
706.	(0.00048)	RY*(5)	C	35	s(1.55%)p 1.50(2.33%)d61.84(96.12%) 0.0000 0.0009 0.1136 -0.0500 -0.0117 -0.0028 0.0787 -0.0067 -0.0063 0.0757 0.0204 0.0026 -0.0814 -0.0651 0.4550 0.2482 0.4855 0.1116 -0.6666
707.	(0.00015)	RY*(6)	C	35	s(1.01%)p34.68(35.09%)d63.17(63.90%) 0.0000 -0.0051 0.0934 0.0343 -0.0141 0.0126 -0.0204 0.5418 -0.0016 -0.0136 -0.0666 0.0166 -0.1261 0.1895 -0.3319 0.2575 -0.4495 0.3073 -0.4075
708.	(0.00009)	RY*(7)	C	35	s(0.83%)p99.99(92.98%)d 7.49(6.19%)
709.	(0.00009)	RY*(8)	C	35	s(0.73%)p87.03(63.72%)d48.55(35.55%)
710.	(0.00007)	RY*(9)	C	35	s(5.32%)p 7.44(39.56%)d10.36(55.12%)
711.	(0.00004)	RY*(10)	C	35	s(37.44%)p 0.50(18.83%)d 1.17(43.73%)
712.	(0.00002)	RY*(11)	C	35	s(1.70%)p11.25(19.14%)d46.54(79.16%)
713.	(0.00002)	RY*(12)	C	35	s(0.91%)p25.87(23.60%)d82.77(75.49%)
714.	(0.00002)	RY*(13)	C	35	s(57.28%)p 0.35(19.87%)d 0.40(22.85%)
715.	(0.00000)	RY*(14)	C	35	s(98.15%)p 0.00(0.05%)d 0.02(1.79%)
716.	(0.00522)	RY*(1)	C	36	s(0.63%)p99.99(92.52%)d10.92(6.85%) 0.0000 0.0013 0.0026 0.0791 -0.0026 -0.0028 0.1936 0.0078 0.0138 -0.6125 0.0148 0.0219 -0.7149 0.0236 0.1494 0.1061 0.0612 -0.0227 0.1753
717.	(0.00289)	RY*(2)	C	36	s(3.29%)p26.45(87.09%)d 2.92(9.62%) 0.0000 -0.0010 0.1813 0.0062 0.0054 -0.0023 -0.8835 -0.0413 0.0041 0.0552 -0.0290 0.0031 -0.2910 -0.0099 -0.0147 -0.2534 0.1483 -0.0399 0.0901
718.	(0.00273)	RY*(3)	C	36	s(1.32%)p67.71(89.27%)d 7.14(9.41%) 0.0000 0.0025 0.1139 0.0141 0.0021 0.0005 0.2378 0.0492 0.0057 0.7233 0.0870 -0.0015 -0.5497 -0.0291 0.1010 0.0630 0.1480 -0.1522 -0.1867
719.	(0.00147)	RY*(4)	C	36	s(89.23%)p 0.08(7.02%)d 0.04(3.75%) 0.0000 -0.0027 0.9417 -0.0735 -0.0045 -0.0056 0.1424 -0.1158 -0.0070 -0.0998 0.0456 -0.0085 0.1040 -0.1161 0.0233

720.	(0.00078)	RY*(5)	C	36	0.0125 0.0163 0.1836 -0.0535 s(8.07%)p 3.95(31.90%)d 7.44(60.03%) 0.0000 -0.0050 0.2398 0.1521 0.0060 -0.0160 -0.0882 0.4448 -0.0086 -0.0305 -0.2210 0.0009 0.0411 0.2482 -0.2015 0.3273 -0.2885 -0.6058 0.0481
721.	(0.00050)	RY*(6)	C	36	s(42.21%)p 0.96(40.50%)d 0.41(17.29%) 0.0000 0.0053 0.0411 0.6484 0.0001 0.0080 0.0551 -0.4053 -0.0059 -0.0393 0.4550 0.0037 0.1158 0.1247 0.0087 -0.2014 0.0380 -0.3617 -0.0020
722.	(0.00044)	RY*(7)	C	36	s(21.45%)p 1.51(32.34%)d 2.15(46.21%) 0.0000 -0.0015 0.0580 0.4595 0.0036 -0.0006 0.0367 0.4198 0.0150 0.1714 0.0201 -0.0123 -0.0172 0.3397 0.0744 -0.1398 -0.1214 0.5483 0.3488
723.	(0.00027)	RY*(8)	C	36	s(21.70%)p 3.18(69.03%)d 0.43(9.27%) 0.0000 -0.0006 -0.0157 0.4652 -0.0207 0.0009 0.0687 0.2200 -0.0060 -0.0462 -0.4461 -0.0034 0.0541 -0.6581 0.0144 -0.1699 0.2243 -0.0505 -0.1035
724.	(0.00020)	RY*(9)	C	36	s(4.74%)p 2.15(10.21%)d17.93(85.05%) 0.0000 -0.0001 -0.0315 0.2154 -0.0042 -0.0163 -0.2482 0.0626 -0.0028 -0.0806 0.0688 0.0027 0.1166 0.1071 0.5037 0.5629 0.1877 0.1650 -0.4663
725.	(0.00011)	RY*(10)	C	36	s(5.40%)p 4.60(24.83%)d12.92(69.77%) 0.0000 -0.0007 -0.0513 0.2267 -0.0005 -0.0073 -0.1392 -0.3080 0.0022 0.0844 0.0157 -0.0125 -0.1958 -0.2969 -0.3975 0.3904 -0.5490 0.2853 -0.0664
726.	(0.00012)	RY*(11)	C	36	s(0.12%)p99.99(16.70%)d99.99(83.18%) 0.0000 -0.0027 -0.0092 0.0311 -0.0128 0.0083 0.0362 0.2257 -0.0110 -0.1927 0.0726 -0.0021 -0.1299 0.2350 -0.4245 -0.3341 -0.0011 0.1390 -0.7216
727.	(0.00007)	RY*(12)	C	36	s(1.40%)p68.52(96.02%)d 1.84(2.58%)
728.	(0.00004)	RY*(13)	C	36	s(1.18%)p 2.14(2.52%)d81.57(96.30%)
729.	(0.00000)	RY*(14)	C	36	s(99.28%)p 0.00(0.21%)d 0.01(0.51%)
730.	(0.00347)	RY*(1)	C	37	s(2.63%)p34.07(89.62%)d 2.95(7.75%) 0.0000 0.0040 0.1587 0.0329 0.0037 0.0170 0.6112 -0.0787 0.0061 0.1011 0.0516 0.0225 0.7080 -0.0385 -0.0335 0.2408 0.0107 0.1334 -0.0210
731.	(0.00128)	RY*(2)	C	37	s(0.93%)p83.10(77.43%)d23.23(21.64%) 0.0000 0.0081 0.0093 0.0957 0.0031 0.0090 0.5572 0.1102 -0.0034 -0.4651 -0.2228 0.0014 -0.4308 -0.0088 0.2844 0.0825 -0.2720 0.1680 0.1629
732.	(0.00115)	RY*(3)	C	37	s(0.73%)p99.99(86.33%)d17.78(12.94%) 0.0000 -0.0025 0.0805 -0.0282 -0.0017 0.0005 0.3151 -0.1490 0.0007 0.7558 -0.0763 0.0058 -0.4003 0.0659 -0.1109 -0.1212 0.0903 0.1994 0.2336
733.	(0.00063)	RY*(4)	C	37	s(0.70%)p68.19(47.40%)d74.67(51.90%) 0.0000 0.0026 0.0780 0.0294 -0.0006 -0.0050 0.1840 0.1705 -0.0097 0.1269 0.4063 0.0072 -0.2503 -0.4087 -0.0962 0.3785 -0.0747 -0.5972 -0.0650
734.	(0.00052)	RY*(5)	C	37	s(42.68%)p 0.56(23.81%)d 0.79(33.51%) 0.0000 0.0042 0.6390 0.1354 -0.0081 0.0135 -0.2173 0.3426 0.0007 0.0516 -0.2411 0.0141 -0.0040 -0.1112 0.3064 0.2361 0.4027 0.0816 0.1291
735.	(0.00034)	RY*(6)	C	37	s(18.83%)p 3.73(70.24%)d 0.58(10.93%) 0.0000 -0.0009 0.4290 -0.0624 0.0200 0.0013 0.0065 -0.7085 0.0107 -0.3372 0.1529 0.0073 -0.1429 -0.2065 -0.2258 -0.0818 0.2108 0.0359 0.0768
736.	(0.00026)	RY*(7)	C	37	s(15.39%)p 1.08(16.62%)d 4.42(68.00%) 0.0000 -0.0012 0.3917 -0.0164 -0.0147

					0.0091	-0.2178	-0.2423	-0.0074	0.2150
					-0.0837	0.0005	0.0729	0.0363	0.2658
					0.0345	-0.7694	-0.0654	-0.1087	
737.	(0.00024)	RY*(8)	C	37	s(0.58%)p99.99(62.41%)d63.36(37.00%)				
					0.0000	-0.0019	0.0750	0.0142	0.0032
					0.0056	-0.0638	0.2303	-0.0010	-0.0056
					0.7282	-0.0028	-0.0070	-0.1914	0.1852
					-0.2265	-0.1083	0.5162	0.0788	
738.	(0.00017)	RY*(9)	C	37	s(0.84%)p13.12(10.96%)d99.99(88.20%)				
					0.0000	0.0016	-0.0538	0.0703	-0.0227
					0.0109	-0.1803	0.1050	0.0107	-0.0644
					-0.0869	-0.0142	0.1676	-0.1609	-0.3622
					0.0838	-0.2479	-0.0100	0.8260	
739.	(0.00014)	RY*(10)	C	37	s(0.95%)p80.29(76.12%)d24.19(22.94%)				
					0.0000	-0.0081	0.0812	-0.0510	0.0150
					0.0109	-0.0445	-0.0660	-0.0021	-0.0686
					0.3609	0.0088	-0.0956	0.7814	0.0090
					0.4374	0.0448	-0.0382	0.1856	
740.	(0.00011)	RY*(11)	C	37	s(20.31%)p 1.22(24.71%)d 2.71(54.98%)				
					0.0000	0.0012	0.4130	-0.1785	-0.0260
					-0.0059	0.1091	0.4193	0.0161	-0.1145
					-0.0500	0.0120	-0.0704	0.1958	-0.6357
					-0.2206	-0.1699	0.0473	-0.2566	
741.	(0.00002)	RY*(12)	C	37	s(3.08%)p 4.12(12.67%)d27.40(84.25%)				
742.	(0.00002)	RY*(13)	C	37	s(92.52%)p 0.02(1.80%)d 0.06(5.68%)				
743.	(0.00000)	RY*(14)	C	37	s(99.79%)p 0.00(0.11%)d 0.00(0.10%)				
744.	(0.00174)	RY*(1)	C	38	s(2.32%)p35.38(81.96%)d 6.79(15.72%)				
					0.0000	0.0006	-0.0782	0.1304	-0.0062
					0.0020	0.1880	-0.0155	0.0123	0.8765
					0.0396	0.0078	0.0947	-0.0715	0.1783
					-0.0643	-0.2895	-0.0833	-0.1747	
745.	(0.00102)	RY*(2)	C	38	s(2.67%)p28.76(76.80%)d 7.69(20.53%)				
					0.0000	0.0011	-0.1107	0.1201	-0.0047
					0.0125	0.8320	-0.0463	-0.0037	-0.2425
					0.0053	0.0056	0.0601	-0.1051	-0.0019
					-0.3784	0.1172	0.0901	-0.2006	
746.	(0.00031)	RY*(3)	C	38	s(17.51%)p 4.63(81.08%)d 0.08(1.41%)				
					0.0000	0.0064	-0.2669	0.3218	-0.0171
					-0.0048	-0.0197	0.1964	-0.0041	0.0161
					0.1017	0.0131	-0.7853	-0.3799	-0.0107
					0.0282	0.0247	-0.0312	0.1079	
747.	(0.00018)	RY*(4)	C	38	s(12.62%)p 3.98(50.29%)d 2.94(37.08%)				
					0.0000	0.0038	0.3239	-0.1437	-0.0252
					0.0101	-0.2725	-0.4667	-0.0046	0.1379
					0.2076	0.0001	-0.1041	-0.3712	-0.1601
					-0.4781	0.2581	0.1572	-0.1590	
748.	(0.00009)	RY*(5)	C	38	s(23.57%)p 2.67(62.82%)d 0.58(13.61%)				
749.	(0.00007)	RY*(6)	C	38	s(46.97%)p 0.89(41.63%)d 0.24(11.41%)				
750.	(0.00003)	RY*(7)	C	38	s(26.15%)p 1.96(51.32%)d 0.86(22.53%)				
751.	(0.00003)	RY*(8)	C	38	s(8.56%)p 2.19(18.78%)d 8.49(72.66%)				
752.	(0.00001)	RY*(9)	C	38	s(47.39%)p 0.54(25.45%)d 0.57(27.15%)				
753.	(0.00000)	RY*(10)	C	38	s(0.91%)p 2.82(2.56%)d99.99(96.54%)				
754.	(0.00001)	RY*(11)	C	38	s(0.38%)p99.99(99.10%)d 1.36(0.52%)				
755.	(0.00000)	RY*(12)	C	38	s(99.19%)p 0.01(0.73%)d 0.00(0.08%)				
756.	(0.00001)	RY*(13)	C	38	s(2.69%)p 0.51(1.37%)d35.65(95.94%)				
757.	(0.00001)	RY*(14)	C	38	s(9.07%)p 0.69(6.30%)d 9.33(84.63%)				
758.	(0.00358)	RY*(1)	C	39	s(3.11%)p28.66(89.23%)d 2.46(7.66%)				
					0.0000	0.0041	0.1727	0.0357	0.0050
					0.0250	0.7755	-0.0500	-0.0165	-0.4090
					-0.0042	0.0085	0.3344	-0.0908	-0.1242
					0.2149	-0.0570	0.1080	0.0092	
759.	(0.00126)	RY*(2)	C	39	s(0.74%)p99.99(78.35%)d28.15(20.91%)				
					0.0000	0.0076	0.0056	0.0856	0.0024
					0.0037	0.1499	-0.0257	-0.0006	0.6808
					0.0997	0.0082	0.4664	0.2634	0.1062
					0.0734	-0.3740	0.0306	-0.2272	
760.	(0.00115)	RY*(3)	C	39	s(1.08%)p76.42(82.17%)d15.58(16.75%)				
					0.0000	0.0055	0.0903	0.0507	0.0022
					0.0023	-0.5006	0.1274	0.0013	-0.3630
					0.1470	0.0025	0.6335	-0.0132	-0.0857
					-0.1726	-0.1427	0.3094	0.1194	

761.	(0.00064)	RY*(4)	C	39	s(1.01%)p52.66(53.38%)d44.99(45.60%) 0.0000 -0.0007 0.0956 -0.0314 -0.0013 -0.0072 0.1818 0.2807 -0.0106 0.3144 0.3356 0.0035 -0.1229 -0.4418 -0.2582 -0.3101 -0.1883 0.0728 0.5025
762.	(0.00052)	RY*(5)	C	39	s(47.39%)p 0.48(22.72%)d 0.63(29.90%) 0.0000 0.0044 0.6777 0.1208 -0.0086 0.0133 -0.0776 0.0128 -0.0100 0.0140 0.2715 0.0087 -0.2486 0.2914 -0.4361 -0.0069 0.0698 0.0877 -0.3102
763.	(0.00031)	RY*(6)	C	39	s(5.44%)p11.81(64.24%)d 5.57(30.32%) 0.0000 -0.0024 0.2155 -0.0842 0.0296 0.0080 -0.1545 -0.4522 -0.0074 0.2407 -0.1800 -0.0085 0.3309 -0.4626 -0.2852 0.1129 0.3455 -0.2996 0.0022
764.	(0.00026)	RY*(7)	C	39	s(22.14%)p 1.38(30.64%)d 2.13(47.22%) 0.0000 -0.0039 0.4689 -0.0390 -0.0020 0.0065 -0.0859 -0.3402 0.0004 -0.0630 -0.3100 0.0099 -0.1984 -0.2089 0.3802 -0.0434 -0.5474 0.1360 0.0875
765.	(0.00021)	RY*(8)	C	39	s(3.17%)p13.14(41.64%)d17.42(55.19%) 0.0000 -0.0005 0.1652 -0.0661 0.0056 -0.0004 -0.0257 0.3309 -0.0025 0.0636 0.2718 0.0024 0.0103 -0.4778 0.4734 0.2081 0.2621 0.2157 -0.4114
766.	(0.00017)	RY*(9)	C	39	s(0.10%)p99.99(51.45%)d99.99(48.45%) 0.0000 -0.0063 -0.0075 0.0264 0.0141 -0.0031 0.0573 0.2114 -0.0159 0.2249 -0.6441 0.0111 -0.0211 -0.0164 -0.2111 -0.0919 0.2123 0.6202 -0.0416
767.	(0.00014)	RY*(10)	C	39	s(0.63%)p69.51(43.74%)d88.39(55.63%) 0.0000 -0.0052 -0.0294 0.0734 -0.0032 0.0119 -0.1283 0.5114 0.0106 -0.0960 -0.3138 0.0058 -0.0131 -0.2266 -0.2999 0.2572 -0.4171 -0.4015 -0.2549
768.	(0.00010)	RY*(11)	C	39	s(18.27%)p 1.63(29.81%)d 2.84(51.92%)
769.	(0.00002)	RY*(12)	C	39	s(2.32%)p 4.84(11.23%)d37.27(86.45%)
770.	(0.00002)	RY*(13)	C	39	s(94.74%)p 0.02(1.50%)d 0.04(3.76%)
771.	(0.00000)	RY*(14)	C	39	s(99.81%)p 0.00(0.12%)d 0.00(0.07%)
772.	(0.00162)	RY*(1)	C	40	s(3.58%)p22.18(79.28%)d 4.80(17.15%) 0.0000 0.0007 -0.1167 0.1486 -0.0066 0.0105 0.6975 0.0141 -0.0081 -0.0529 0.0721 -0.0062 -0.5408 -0.0730 0.2889 -0.1669 -0.1781 0.1622 0.0463
773.	(0.00097)	RY*(2)	C	40	s(2.89%)p25.21(72.76%)d 8.44(24.36%) 0.0000 0.0012 -0.1157 0.1244 -0.0037 0.0080 0.4559 -0.0588 -0.0011 0.2545 0.0970 0.0129 0.6593 -0.0843 0.2826 -0.0305 0.3966 -0.0329 -0.0662
774.	(0.00029)	RY*(3)	C	40	s(20.74%)p 3.68(76.31%)d 0.14(2.96%) 0.0000 0.0067 -0.3215 0.3221 -0.0155 -0.0044 -0.2136 0.1433 -0.0129 0.6768 0.4471 0.0033 -0.1921 -0.0425 -0.1319 0.0242 -0.0742 -0.0770 -0.0127
775.	(0.00015)	RY*(4)	C	40	s(9.06%)p 6.78(61.40%)d 3.26(29.54%) 0.0000 0.0023 0.2555 -0.1586 -0.0125 0.0037 -0.1546 -0.3276 0.0024 0.0635 0.1366 0.0092 -0.3435 -0.5848 0.1676 0.0460 0.4984 -0.1295 -0.0031
776.	(0.00010)	RY*(5)	C	40	s(14.09%)p 5.49(77.32%)d 0.61(8.59%)
777.	(0.00007)	RY*(6)	C	40	s(47.62%)p 0.71(33.79%)d 0.39(18.59%)
778.	(0.00002)	RY*(7)	C	40	s(69.33%)p 0.33(22.96%)d 0.11(7.71%)
779.	(0.00002)	RY*(8)	C	40	s(0.62%)p86.32(53.59%)d73.77(45.79%)
780.	(0.00003)	RY*(9)	C	40	s(5.65%)p 8.33(47.09%)d 8.36(47.26%)
781.	(0.00001)	RY*(10)	C	40	s(13.98%)p 3.66(51.12%)d 2.50(34.90%)
782.	(0.00001)	RY*(11)	C	40	s(4.66%)p 1.37(6.41%)d19.08(88.93%)
783.	(0.00000)	RY*(12)	C	40	s(99.25%)p 0.01(0.69%)d 0.00(0.07%)
784.	(0.00000)	RY*(13)	C	40	s(3.98%)p 2.83(11.27%)d21.31(84.75%)
785.	(0.00000)	RY*(14)	C	40	s(4.56%)p 1.36(6.21%)d19.55(89.22%)
786.	(0.00651)	RY*(1)	C	41	s(5.88%)p14.80(87.00%)d 1.21(7.12%) 0.0000 0.0079 0.2353 0.0582 0.0016

					0.0079	0.4223	-0.0312	-0.0168	-0.7828
					0.0399	-0.0049	-0.2749	0.0211	-0.0686
					-0.1235	0.0703	-0.1473	-0.1567	
787.	(0.00320)	RY*(2)	C	41	s(0.33%)p99.99(95.23%)d13.50(4.44%)				
					0.0000	-0.0021	0.0550	-0.0152	-0.0045
					0.0004	-0.7924	-0.0295	0.0009	-0.4939
					-0.0823	-0.0024	0.2675	-0.0356	-0.1747
					-0.0789	0.0252	0.0832	-0.0090	
788.	(0.00141)	RY*(3)	C	41	s(8.69%)p 8.73(75.84%)d 1.78(15.47%)				
					0.0000	-0.0036	0.2789	0.0953	0.0004
					0.0021	-0.3207	-0.2796	-0.0066	0.1316
					0.3541	0.0046	-0.6283	-0.1996	0.1993
					0.0544	0.3066	0.1278	0.0411	
789.	(0.00100)	RY*(4)	C	41	s(33.88%)p 1.43(48.39%)d 0.52(17.73%)				
					0.0000	-0.0043	0.5820	0.0091	-0.0019
					0.0052	0.0328	-0.0775	-0.0017	0.0753
					0.5524	-0.0086	0.3022	0.2730	-0.1055
					0.0259	-0.3840	-0.0274	0.1317	
790.	(0.00082)	RY*(5)	C	41	s(48.71%)p 0.17(8.48%)d 0.88(42.81%)				
					0.0000	0.0014	-0.4201	0.5574	-0.0014
					0.0065	-0.0294	-0.1637	-0.0032	-0.0499
					0.2282	-0.0001	-0.0475	0.0148	-0.0604
					-0.3797	-0.1420	-0.2663	0.4349	
791.	(0.00072)	RY*(6)	C	41	s(32.40%)p 0.61(19.73%)d 1.48(47.87%)				
					0.0000	0.0000	-0.2628	0.5049	0.0009
					-0.0053	-0.0079	0.1322	-0.0067	-0.0683
					0.3275	-0.0020	0.1318	0.2244	0.1003
					0.3272	0.1008	0.2609	-0.5323	
792.	(0.00041)	RY*(7)	C	41	s(47.56%)p 0.84(40.04%)d 0.26(12.40%)				
					0.0000	0.0016	0.4279	0.5408	0.0054
					0.0044	-0.0448	0.2935	0.0013	0.0879
					-0.3456	-0.0037	0.0516	-0.4270	0.2186
					0.0134	-0.2205	-0.1453	-0.0795	
793.	(0.00039)	RY*(8)	C	41	s(16.45%)p 3.57(58.67%)d 1.51(24.89%)				
					0.0000	0.0034	0.2473	0.3214	-0.0024
					-0.0088	0.0614	-0.3680	-0.0065	0.1544
					-0.4646	0.0025	-0.0462	0.4534	-0.2863
					-0.1751	0.1515	0.3366	-0.0033	
794.	(0.00033)	RY*(9)	C	41	s(1.10%)p70.47(77.60%)d19.34(21.30%)				
					0.0000	-0.0017	0.1044	-0.0067	0.0080
					0.0081	-0.1697	0.6065	0.0010	0.0144
					-0.0395	0.0042	-0.1871	0.5853	0.2587
					-0.1290	0.2339	-0.2017	0.1844	
795.	(0.00014)	RY*(10)	C	41	s(0.58%)p17.13(9.85%)d99.99(89.57%)				
					0.0000	-0.0073	0.0725	-0.0149	0.0147
					0.0090	-0.0932	-0.0843	-0.0218	0.2630
					0.0833	-0.0051	0.0764	-0.0126	-0.3249
					-0.2432	0.2869	-0.6291	-0.5029	
796.	(0.00010)	RY*(11)	C	41	s(0.28%)p99.99(40.29%)d99.99(59.43%)				
797.	(0.00005)	RY*(12)	C	41	s(2.60%)p 0.32(0.83%)d37.17(96.57%)				
798.	(0.00000)	RY*(13)	C	41	s(99.72%)p 0.00(0.04%)d 0.00(0.24%)				
799.	(0.00502)	RY*(1)	C	42	s(0.67%)p99.99(92.55%)d10.07(6.78%)				
					0.0000	0.0021	0.0561	0.0597	-0.0033
					0.0129	-0.5020	0.0126	-0.0091	0.3133
					-0.0229	0.0198	-0.7576	-0.0056	-0.1290
					0.0543	-0.1935	0.0543	-0.0881	
800.	(0.00306)	RY*(2)	C	42	s(2.84%)p30.97(87.97%)d 3.23(9.19%)				
					0.0000	-0.0019	0.1603	-0.0520	0.0017
					0.0023	0.0749	-0.0068	0.0002	0.8812
					0.0619	0.0026	0.3040	-0.0356	0.1123
					0.1884	0.0329	0.1635	0.1262	
801.	(0.00236)	RY*(3)	C	42	s(6.70%)p12.43(83.31%)d 1.49(9.99%)				
					0.0000	0.0021	0.2563	0.0359	0.0048
					-0.0004	-0.7481	-0.0434	0.0045	-0.1261
					-0.1379	0.0027	0.4795	0.0817	0.1016
					0.0095	-0.2127	-0.1722	0.1208	
802.	(0.00137)	RY*(4)	C	42	s(87.22%)p 0.13(11.67%)d 0.01(1.11%)				
					0.0000	-0.0032	0.9289	-0.0962	-0.0051
					-0.0028	0.2128	0.0186	0.0072	-0.1317
					0.1194	-0.0087	-0.1510	0.1286	0.0046
					0.0154	0.0654	-0.0482	-0.0651	

803.	(0.00065)	RY*(5)	C	42	s(4.31%)p 5.56(23.98%)d16.62(71.70%) 0.0000 -0.0041 0.1415 0.1516 0.0106 -0.0084 0.0197 0.2782 0.0054 0.0582 -0.3177 0.0067 0.0721 -0.2290 -0.5432 -0.5074 0.0415 0.2261 0.3342
804.	(0.00050)	RY*(6)	C	42	s(16.49%)p 4.06(66.92%)d 1.01(16.59%) 0.0000 -0.0013 -0.0023 0.4056 0.0205 -0.0020 0.0870 0.3418 -0.0002 0.0381 -0.5158 0.0067 0.0438 0.5247 0.0643 0.1796 0.0515 0.1244 -0.3337
805.	(0.00042)	RY*(7)	C	42	s(2.63%)p21.99(57.85%)d15.02(39.52%) 0.0000 0.0067 -0.0855 0.1376 -0.0026 0.0054 -0.0099 0.1673 -0.0161 -0.0804 0.4644 -0.0073 -0.0647 0.5691 0.0566 -0.0492 -0.1263 0.2550 0.5555
806.	(0.00033)	RY*(8)	C	42	s(68.01%)p 0.35(23.55%)d 0.12(8.45%) 0.0000 0.0015 0.1024 0.8179 -0.0250 -0.0007 0.1323 -0.3613 0.0062 -0.0210 0.0442 -0.0072 -0.0437 -0.2881 0.2032 0.0180 -0.1494 -0.0373 0.1384
807.	(0.00024)	RY*(9)	C	42	s(1.29%)p15.64(20.23%)d60.67(78.47%) 0.0000 0.0028 0.0403 0.1063 -0.0035 -0.0170 -0.2698 -0.1523 -0.0073 -0.1701 0.2270 0.0023 0.1094 -0.1164 -0.1482 0.1982 0.4584 0.6768 -0.2353
808.	(0.00013)	RY*(10)	C	42	s(2.19%)p 4.03(8.83%)d40.58(88.97%) 0.0000 -0.0004 -0.0293 0.1447 -0.0109 -0.0070 -0.1844 0.0095 0.0049 0.1477 0.0706 -0.0079 -0.0993 0.1322 0.2081 -0.3574 0.7553 -0.3800 0.0622
809.	(0.00012)	RY*(11)	C	42	s(3.52%)p 9.29(32.70%)d18.12(63.78%) 0.0000 0.0055 -0.0357 0.1837 -0.0114 -0.0009 0.0072 -0.1017 0.0141 0.1637 0.4419 0.0107 0.2076 0.2262 -0.4255 -0.3283 -0.2080 -0.1857 -0.5208
810.	(0.00007)	RY*(12)	C	42	s(3.33%)p26.31(87.69%)d 2.69(8.98%)
811.	(0.00004)	RY*(13)	C	42	s(1.23%)p 2.24(2.76%)d78.12(96.02%)
812.	(0.00000)	RY*(14)	C	42	s(99.59%)p 0.00(0.12%)d 0.00(0.29%)
813.	(0.00409)	RY*(1)	C	43	s(1.68%)p53.23(89.18%)d 5.46(9.15%) 0.0000 0.0056 0.1292 -0.0045 0.0028 0.0065 0.1931 -0.0591 0.0072 0.3803 0.1272 0.0229 0.8304 -0.0052 0.1720 0.0065 0.1764 0.0224 0.1738
814.	(0.00153)	RY*(2)	C	43	s(0.24%)p99.99(96.65%)d13.20(3.12%) 0.0000 0.0047 0.0469 -0.0101 0.0064 0.0154 0.2250 -0.1894 -0.0121 0.8200 -0.0722 0.0005 -0.4324 0.1231 0.0904 0.1224 -0.0591 -0.0450 -0.0498
815.	(0.00136)	RY*(3)	C	43	s(0.02%)p99.99(96.34%)d99.99(3.64%) 0.0000 0.0039 0.0062 0.0091 0.0055 0.0106 -0.8822 0.1356 -0.0209 0.3501 0.1957 0.0068 0.0437 -0.0580 -0.1497 -0.0314 -0.0198 0.0962 0.0584
816.	(0.00060)	RY*(4)	C	43	s(92.59%)p 0.05(4.74%)d 0.03(2.67%) 0.0000 -0.0002 0.9520 -0.1396 -0.0064 -0.0123 -0.0228 -0.1041 0.0041 -0.1127 0.0964 -0.0182 -0.0990 -0.0611 0.0107 0.0272 -0.0782 0.1389 -0.0219
817.	(0.00047)	RY*(5)	C	43	s(0.28%)p22.99(6.33%)d99.99(93.40%) 0.0000 0.0008 0.0480 -0.0194 -0.0085 -0.0061 -0.1761 -0.1493 -0.0049 -0.0727 0.0081 0.0030 0.0566 0.0367 0.3784 0.0244 -0.4414 -0.7543 0.1624
818.	(0.00015)	RY*(6)	C	43	s(7.91%)p 5.73(45.33%)d 5.91(46.76%) 0.0000 -0.0072 0.2023 0.1933 -0.0277 0.0081 -0.0585 0.2357 -0.0163 0.1095 -0.5708 -0.0056 -0.0175 -0.2365 -0.0441 -0.4044 0.4195 -0.3490 -0.0655
819.	(0.00012)	RY*(7)	C	43	s(2.81%)p15.50(43.49%)d19.14(53.71%) 0.0000 -0.0090 0.0733 0.1490 0.0201 -0.0103 0.1013 0.4708 0.0101 0.0859

					-0.4214	-0.0093	0.1301	-0.0283	-0.2406
					0.2667	-0.5582	0.1523	0.2708	
820.	(0.00007)	RY*(8)	C	43	s(8.40%)	p 6.96(58.46%)	d 3.95(33.15%)		
821.	(0.00006)	RY*(9)	C	43	s(6.28%)	p13.93(87.46%)	d 1.00(6.27%)		
822.	(0.00005)	RY*(10)	C	43	s(13.19%)	p 1.19(15.66%)	d 5.40(71.15%)		
823.	(0.00002)	RY*(11)	C	43	s(66.65%)	p 0.20(13.54%)	d 0.30(19.81%)		
824.	(0.00002)	RY*(12)	C	43	s(1.33%)	p23.71(31.42%)	d50.75(67.25%)		
825.	(0.00002)	RY*(13)	C	43	s(2.08%)	p 5.38(11.18%)	d41.77(86.75%)		
826.	(0.00000)	RY*(14)	C	43	s(96.61%)	p 0.00(0.39%)	d 0.03(3.00%)		
827.	(0.00417)	RY*(1)	C	44	s(0.90%)	p99.99(91.01%)	d 9.00(8.09%)		
					0.0000	0.0007	0.0821	0.0471	0.0059
					-0.0114	-0.3280	0.0179	0.0292	0.8707
					-0.0564	0.0081	0.1994	-0.0092	-0.0770
					-0.1534	0.0616	-0.1314	-0.1743	
828.	(0.00187)	RY*(2)	C	44	s(0.05%)	p99.99(99.95%)	d 0.09(0.00%)		
					0.0000	-0.0002	0.0193	0.0090	0.0007
					-0.0196	0.4821	0.1537	0.0008	-0.0088
					-0.0115	-0.0344	0.8157	0.2762	0.0017
					-0.0018	0.0009	-0.0049	0.0033	
829.	(0.00089)	RY*(3)	C	44	s(0.25%)	p99.99(91.27%)	d34.04(8.49%)		
					0.0000	0.0014	0.0361	0.0345	-0.0016
					0.0057	0.7342	-0.1664	0.0014	0.3734
					-0.0821	-0.0025	-0.4353	0.1011	0.1796
					0.1509	-0.0367	-0.1174	-0.1213	
830.	(0.00051)	RY*(4)	C	44	s(98.54%)	p 0.01(1.35%)	d 0.00(0.11%)		
					0.0000	-0.0013	0.9833	0.1357	0.0058
					0.0057	-0.0107	0.0204	-0.0158	-0.0837
					0.0710	-0.0035	-0.0244	0.0065	-0.0012
					0.0143	-0.0011	0.0211	0.0215	
831.	(0.00051)	RY*(5)	C	44	s(0.12%)	p11.67(1.38%)	d99.99(98.50%)		
					0.0000	0.0006	-0.0003	0.0341	-0.0041
					0.0076	0.0885	-0.0316	0.0043	0.0464
					0.0077	-0.0043	-0.0514	-0.0005	-0.1609
					-0.4425	-0.3922	-0.4267	0.6538	
832.	(0.00020)	RY*(6)	C	44	s(0.08%)	p99.99(33.81%)	d99.99(66.12%)		
					0.0000	0.0017	0.0059	0.0266	-0.0040
					-0.0165	0.0893	-0.2932	0.0014	0.0055
					0.0599	-0.0285	0.1549	-0.4642	0.3904
					-0.1528	0.6276	-0.1044	0.2840	
833.	(0.00008)	RY*(7)	C	44	s(41.20%)	p 1.33(54.63%)	d 0.10(4.17%)		
834.	(0.00007)	RY*(8)	C	44	s(7.39%)	p 8.92(65.87%)	d 3.62(26.74%)		
835.	(0.00004)	RY*(9)	C	44	s(0.08%)	p99.99(63.70%)	d99.99(36.22%)		
836.	(0.00004)	RY*(10)	C	44	s(1.29%)	p19.75(25.49%)	d56.75(73.22%)		
837.	(0.00001)	RY*(11)	C	44	s(48.03%)	p 0.84(40.34%)	d 0.24(11.64%)		
838.	(0.00000)	RY*(12)	C	44	s(98.37%)	p 0.01(0.61%)	d 0.01(1.02%)		
839.	(0.00000)	RY*(13)	C	44	s(0.20%)	p78.03(15.42%)	d99.99(84.38%)		
840.	(0.00000)	RY*(14)	C	44	s(3.58%)	p 4.28(15.32%)	d22.68(81.10%)		
841.	(0.00417)	RY*(1)	C	45	s(1.43%)	p62.69(89.66%)	d 6.23(8.91%)		
					0.0000	0.0053	0.1182	-0.0167	0.0039
					-0.0151	-0.5625	-0.0287	0.0101	0.4208
					0.1189	-0.0174	-0.6196	0.0598	-0.0762
					0.1114	-0.2438	0.1055	-0.0182	
842.	(0.00144)	RY*(2)	C	45	s(0.30%)	p99.99(98.57%)	d 3.75(1.13%)		
					0.0000	0.0074	0.0535	0.0030	0.0083
					0.0043	0.0071	-0.0731	-0.0226	0.8154
					0.0686	-0.0182	0.5562	0.0237	0.0441
					0.0359	0.0447	-0.0089	0.0772	
843.	(0.00134)	RY*(3)	C	45	s(0.05%)	p99.99(92.47%)	d99.99(7.48%)		
					0.0000	-0.0001	0.0225	0.0013	0.0008
					0.0121	0.7149	-0.2526	0.0088	0.2859
					-0.1745	-0.0031	-0.4569	0.1693	0.1251
					0.0276	-0.1167	-0.2111	0.0143	
844.	(0.00061)	RY*(4)	C	45	s(93.70%)	p 0.04(3.85%)	d 0.03(2.45%)		
					0.0000	-0.0008	0.9598	-0.1251	-0.0048
					0.0088	0.0674	0.0830	0.0031	-0.1055
					0.0454	0.0222	0.0458	0.1061	0.0879
					-0.0481	0.0310	0.0714	0.0916	
845.	(0.00049)	RY*(5)	C	45	s(0.19%)	p33.10(6.26%)	d99.99(93.55%)		
					0.0000	0.0005	0.0416	-0.0101	-0.0079
					0.0071	-0.1613	-0.0866	0.0030	-0.0858
					-0.0372	-0.0033	0.1063	0.0947	0.5591

846.	(0.00015)	RY*(6)	C	45	0.5137 -0.0378 -0.2930 -0.5213 s(2.43%)p11.78(28.60%)d28.41(68.97%) 0.0000 -0.0059 0.1359 0.0750 -0.0125 0.0066 -0.0344 0.1662 -0.0190 0.0741 -0.4907 -0.0093 0.1015 0.0138 -0.5021 -0.1905 -0.2364 -0.2321 -0.5399
847.	(0.00010)	RY*(7)	C	45	s(8.48%)p 8.40(71.20%)d 2.40(20.32%)
848.	(0.00008)	RY*(8)	C	45	s(3.67%)p20.43(74.95%)d 5.83(21.38%)
849.	(0.00005)	RY*(9)	C	45	s(1.91%)p18.19(34.70%)d33.24(63.40%)
850.	(0.00006)	RY*(10)	C	45	s(46.36%)p 0.59(27.24%)d 0.57(26.40%)
851.	(0.00002)	RY*(11)	C	45	s(1.11%)p24.38(27.07%)d64.69(71.82%)
852.	(0.00002)	RY*(12)	C	45	s(36.32%)p 0.81(29.32%)d 0.95(34.36%)
853.	(0.00001)	RY*(13)	C	45	s(6.71%)p 2.40(16.12%)d11.49(77.17%)
854.	(0.00000)	RY*(14)	C	45	s(97.38%)p 0.00(0.13%)d 0.03(2.49%)
855.	(0.00513)	RY*(1)	C	46	s(0.59%)p99.99(92.46%)d11.68(6.95%) 0.0000 0.0008 0.0028 0.0770 -0.0034 -0.0103 0.3985 -0.0093 -0.0068 0.1200 -0.0139 -0.0216 0.8660 -0.0214 0.1092 -0.0499 0.2142 -0.0538 0.0792
856.	(0.00295)	RY*(2)	C	46	s(4.53%)p19.27(87.27%)d 1.81(8.20%) 0.0000 -0.0005 0.2128 -0.0002 0.0056 -0.0047 -0.2665 0.0292 0.0020 0.8947 0.0191 -0.0039 0.0009 0.0057 0.0894 0.1064 -0.0803 0.1085 0.2108
857.	(0.00289)	RY*(3)	C	46	s(0.12%)p99.99(91.04%)d74.00(8.84%) 0.0000 0.0024 0.0344 -0.0027 0.0010 -0.0037 -0.8188 -0.0944 0.0008 -0.2471 -0.0422 0.0007 0.4090 0.0308 0.1293 0.1789 0.0639 0.0819 -0.1698
858.	(0.00146)	RY*(4)	C	46	s(93.19%)p 0.05(4.68%)d 0.02(2.13%) 0.0000 -0.0036 0.9636 -0.0578 -0.0046 0.0036 0.0905 -0.0185 0.0102 -0.1757 0.0811 0.0076 -0.0043 0.0248 -0.0007 0.0028 -0.0390 -0.1214 -0.0712
859.	(0.00067)	RY*(5)	C	46	s(1.21%)p10.85(13.12%)d70.87(85.67%) 0.0000 -0.0030 0.1044 0.0342 0.0030 0.0113 0.0737 0.2571 0.0129 0.0698 -0.2283 -0.0062 -0.0483 0.0011 -0.3126 0.0305 0.4635 0.6428 -0.3606
860.	(0.00052)	RY*(6)	C	46	s(49.12%)p 0.86(42.45%)d 0.17(8.44%) 0.0000 0.0008 0.0916 0.6948 0.0100 -0.0090 -0.0915 -0.1803 0.0038 -0.0131 -0.4390 0.0039 -0.0623 -0.4321 -0.0459 -0.2524 0.0031 -0.0772 0.1121
861.	(0.00049)	RY*(7)	C	46	s(6.60%)p 9.94(65.62%)d 4.21(27.78%) 0.0000 0.0060 0.0037 0.2568 -0.0033 0.0097 0.0855 -0.3849 -0.0130 -0.0909 0.6503 -0.0023 -0.0326 -0.2613 0.0902 0.1734 -0.0013 0.4740 0.1223
862.	(0.00029)	RY*(8)	C	46	s(32.11%)p 1.81(58.18%)d 0.30(9.70%) 0.0000 -0.0012 0.0186 0.5660 -0.0197 0.0034 0.0367 0.2350 -0.0012 -0.1022 0.0127 0.0061 -0.0185 0.7171 0.0978 0.1745 -0.1087 0.1036 0.1857
863.	(0.00020)	RY*(9)	C	46	s(4.24%)p 1.86(7.90%)d20.74(87.87%) 0.0000 0.0003 -0.0478 0.2002 -0.0024 0.0090 0.1673 0.0075 0.0082 0.1456 -0.0185 -0.0066 -0.1282 -0.1129 0.4961 0.4185 0.0613 -0.2343 -0.6315
864.	(0.00012)	RY*(10)	C	46	s(7.89%)p 4.25(33.53%)d 7.43(58.58%) 0.0000 -0.0016 -0.0503 0.2763 -0.0043 -0.0049 -0.1381 0.1637 0.0120 0.1677 0.5004 0.0082 0.0973 0.0346 -0.4943 -0.2772 -0.0296 -0.3205 -0.4012
865.	(0.00013)	RY*(11)	C	46	s(0.06%)p99.99(13.51%)d99.99(86.42%) 0.0000 0.0026 0.0156 0.0188 0.0056 -0.0096 -0.1407 0.1286 0.0078 -0.0138 0.2297 -0.0090 -0.2071 0.0521 0.3747 -0.3299 0.7330 -0.1858 0.2077
866.	(0.00009)	RY*(12)	C	46	s(0.18%)p99.99(88.64%)d62.84(11.19%)
867.	(0.00004)	RY*(13)	C	46	s(0.88%)p 1.89(1.66%)d99.99(97.46%)

868.	(0.00000)	RY*(14)	C	46	s(99.31%)p 0.00(0.09%)d 0.01(0.60%)
869.	(0.00368)	RY*(1)	C	47	s(3.26%)p27.42(89.38%)d 2.26(7.36%) 0.0000 0.0044 0.1686 0.0641 0.0056 0.0114 0.3203 -0.0017 -0.0171 -0.7473 0.0508 -0.0185 -0.4784 -0.0236 -0.1828 -0.1742 0.0778 -0.0397 -0.0465
870.	(0.00178)	RY*(2)	C	47	s(1.73%)p49.16(84.84%)d 7.78(13.43%) 0.0000 0.0081 0.1088 0.0727 -0.0081 0.0054 0.6638 -0.0790 -0.0017 -0.0729 -0.0066 0.0023 0.6240 0.0822 0.1647 -0.0809 0.2569 0.0463 -0.1804
871.	(0.00140)	RY*(3)	C	47	s(5.62%)p14.14(79.52%)d 2.64(14.85%) 0.0000 0.0005 0.2278 0.0658 -0.0021 0.0013 0.4694 -0.0873 -0.0048 0.5747 -0.0757 -0.0065 -0.4807 -0.0110 -0.1880 0.2029 0.2353 0.0525 0.1179
872.	(0.00067)	RY*(4)	C	47	s(29.33%)p 1.80(52.91%)d 0.61(17.76%) 0.0000 0.0009 0.4852 0.2369 -0.0415 0.0118 -0.2778 0.3842 -0.0069 0.0046 -0.4480 -0.0086 0.0620 0.3154 0.0069 -0.2593 0.2854 0.1097 0.1298
873.	(0.00059)	RY*(5)	C	47	s(3.11%)p22.96(71.45%)d 8.17(25.44%) 0.0000 0.0027 0.0968 0.1474 -0.0059 -0.0045 0.1378 0.5300 -0.0085 0.1446 0.6227 0.0040 0.0109 0.0754 0.0726 -0.2095 -0.1463 -0.3513 0.2457
874.	(0.00042)	RY*(6)	C	47	s(26.93%)p 1.57(42.24%)d 1.14(30.83%) 0.0000 -0.0005 0.5139 0.0626 0.0364 0.0038 -0.2329 -0.2202 -0.0016 -0.0344 0.5520 -0.0077 0.0774 -0.0876 -0.0177 0.1474 0.0589 0.5274 -0.0684
875.	(0.00029)	RY*(7)	C	47	s(3.09%)p11.37(35.19%)d19.95(61.72%) 0.0000 0.0028 -0.0533 0.1582 0.0553 -0.0126 0.1074 -0.3229 0.0066 -0.1060 -0.0307 -0.0061 0.1586 0.4456 -0.2475 0.0667 -0.3392 0.1134 0.6508
876.	(0.00030)	RY*(8)	C	47	s(25.69%)p 1.24(31.98%)d 1.65(42.32%) 0.0000 -0.0006 0.4575 -0.2171 -0.0208 0.0083 -0.1118 -0.4845 -0.0093 0.0600 -0.0536 -0.0037 0.0843 -0.2427 0.0520 -0.2848 -0.0125 -0.5592 0.1631
877.	(0.00023)	RY*(9)	C	47	s(17.68%)p 2.40(42.42%)d 2.26(39.90%) 0.0000 0.0019 0.0234 0.4195 0.0178 -0.0056 -0.0581 -0.3108 0.0029 0.0940 0.0701 0.0106 -0.2175 0.5128 0.3253 -0.0422 -0.1937 -0.1950 -0.4646
878.	(0.00013)	RY*(10)	C	47	s(8.72%)p 0.99(8.62%)d 9.47(82.65%) 0.0000 -0.0002 0.1247 0.2673 0.0162 0.0061 -0.1260 0.0850 0.0171 -0.1580 0.0012 -0.0138 0.1939 -0.0083 -0.3392 0.6888 0.1554 -0.4504 -0.1007
879.	(0.00011)	RY*(11)	C	47	s(59.19%)p 0.59(34.75%)d 0.10(6.06%) 0.0000 -0.0039 -0.1327 0.7578 0.0034 -0.0024 -0.0094 -0.0949 -0.0006 0.0182 -0.1016 0.0075 0.0254 -0.5719 0.0925 -0.1432 -0.0478 0.0727 0.1549
880.	(0.00011)	RY*(12)	C	47	s(10.61%)p 1.52(16.10%)d 6.91(73.29%) 0.0000 0.0005 0.3237 -0.0252 0.0264 -0.0140 0.1704 0.2000 -0.0063 0.0851 -0.2270 -0.0147 0.0961 -0.1532 -0.2866 -0.0186 -0.7357 0.0843 -0.3195
881.	(0.00003)	RY*(13)	C	47	s(5.74%)p 1.84(10.57%)d14.58(83.69%)
882.	(0.00000)	RY*(14)	C	47	s(99.24%)p 0.00(0.26%)d 0.01(0.50%)
883.	(0.00153)	RY*(1)	C	48	s(7.84%)p 9.32(73.02%)d 2.44(19.14%) 0.0000 0.0016 -0.1826 0.2121 -0.0069 0.0005 -0.3424 -0.1236 -0.0046 -0.5815 -0.0798 -0.0146 -0.5026 0.0177 0.2701 0.1443 0.0279 -0.0712 -0.3029
884.	(0.00099)	RY*(2)	C	48	s(0.29%)p99.99(72.12%)d95.79(27.59%) 0.0000 0.0009 -0.0356 0.0402 -0.0002 0.0126 0.6201 -0.0647 -0.0076 -0.5275

					0.0443	0.0048	0.2225	0.0505	-0.0520
					0.2409	-0.3050	-0.3257	0.1267	
885.	(0.00029)	RY*(3)	C	48	s(16.79%)	p 4.86(81.62%)	d 0.09(1.59%)		
					0.0000	0.0040	-0.2142	0.3492	-0.0039
					0.0089	-0.4128	-0.3349	0.0047	-0.1124
					-0.1753	-0.0043	0.6554	0.2463	-0.0529
					-0.0391	-0.0461	0.0472	0.0847	
886.	(0.00011)	RY*(4)	C	48	s(31.01%)	p 1.61(49.82%)	d 0.62(19.18%)		
					0.0000	0.0034	-0.2577	0.4936	-0.0014
					-0.0077	0.4014	0.4346	0.0023	0.0889
					-0.3316	-0.0026	0.0270	0.1717	0.1861
					-0.1675	0.2892	0.1331	-0.1665	
887.	(0.00012)	RY*(5)	C	48	s(11.53%)	p 7.21(83.16%)	d 0.46(5.31%)		
					0.0000	-0.0172	0.0485	0.3241	0.0876
					0.0002	-0.1399	0.2772	-0.0020	-0.1596
					0.0999	0.0015	0.1885	-0.8150	-0.1282
					0.1269	0.0818	0.0639	0.0989	
888.	(0.00007)	RY*(6)	C	48	s(25.60%)	p 1.87(47.80%)	d 1.04(26.60%)		
889.	(0.00004)	RY*(7)	C	48	s(16.12%)	p 2.55(41.05%)	d 2.66(42.83%)		
890.	(0.00003)	RY*(8)	C	48	s(71.48%)	p 0.30(21.49%)	d 0.10(7.03%)		
891.	(0.00002)	RY*(9)	C	48	s(7.05%)	p 8.15(57.43%)	d 5.04(35.52%)		
892.	(0.00000)	RY*(10)	C	48	s(99.18%)	p 0.01(0.80%)	d 0.00(0.02%)		
893.	(0.00001)	RY*(11)	C	48	s(4.86%)	p 8.20(39.82%)	d11.39(55.33%)		
894.	(0.00001)	RY*(12)	C	48	s(6.40%)	p 1.68(10.72%)	d12.96(82.88%)		
895.	(0.00001)	RY*(13)	C	48	s(1.31%)	p11.68(15.27%)	d63.83(83.42%)		
896.	(0.00000)	RY*(14)	C	48	s(0.56%)	p10.79(6.06%)	d99.99(93.38%)		
897.	(0.00367)	RY*(1)	C	49	s(2.72%)	p32.92(89.61%)	d 2.82(7.66%)		
					0.0000	0.0050	0.1621	0.0300	0.0044
					0.0161	0.4891	-0.0108	-0.0245	-0.8037
					0.0700	0.0052	0.0517	0.0484	-0.1794
					-0.0140	0.0864	-0.1576	-0.1093	
898.	(0.00133)	RY*(2)	C	49	s(0.46%)	p99.99(80.08%)	d42.77(19.46%)		
					0.0000	0.0081	0.0026	0.0668	0.0035
					0.0019	-0.3569	-0.0730	-0.0069	-0.2436
					-0.0896	-0.0064	-0.7562	-0.1698	-0.0348
					-0.2950	-0.1552	-0.0040	-0.2868	
899.	(0.00128)	RY*(3)	C	49	s(0.19%)	p99.99(84.81%)	d78.93(15.00%)		
					0.0000	0.0013	0.0407	0.0154	0.0015
					-0.0013	0.6688	-0.1938	-0.0002	0.3913
					-0.1225	-0.0002	-0.4296	0.1031	-0.0821
					-0.1433	-0.1662	-0.1827	0.2484	
900.	(0.00068)	RY*(4)	C	49	s(0.47%)	p99.99(62.30%)	d80.04(37.23%)		
					0.0000	-0.0011	0.0665	-0.0153	0.0005
					0.0123	-0.3187	-0.4962	0.0061	-0.1652
					-0.2450	-0.0057	0.1812	0.3935	-0.2849
					-0.3090	-0.0973	0.0242	0.4308	
901.	(0.00050)	RY*(5)	C	49	s(54.24%)	p 0.30(16.24%)	d 0.54(29.52%)		
					0.0000	0.0041	0.7303	0.0947	-0.0064
					0.0112	-0.0875	-0.1680	-0.0161	0.1511
					-0.0086	0.0019	0.0788	-0.3116	-0.3416
					0.3174	-0.2518	-0.0279	-0.1166	
902.	(0.00034)	RY*(6)	C	49	s(10.53%)	p 7.64(80.42%)	d 0.86(9.04%)		
					0.0000	-0.0033	0.3045	-0.1096	0.0244
					0.0071	-0.1518	0.1038	-0.0020	0.0130
					0.5798	0.0085	-0.3166	0.5777	0.0693
					0.2228	0.1288	-0.0397	0.1335	
903.	(0.00026)	RY*(7)	C	49	s(15.97%)	p 1.25(19.98%)	d 4.01(64.05%)		
					0.0000	-0.0018	0.3989	-0.0145	-0.0179
					0.0015	0.0473	0.3017	-0.0070	0.1185
					0.1980	-0.0081	0.2302	-0.0139	0.1515
					-0.7793	-0.0635	0.0058	-0.0792	
904.	(0.00027)	RY*(8)	C	49	s(1.72%)	p21.54(37.06%)	d35.58(61.22%)		
					0.0000	-0.0017	0.1310	0.0072	-0.0004
					-0.0016	0.0365	-0.3534	-0.0039	0.0692
					-0.2639	-0.0062	0.1275	0.3920	0.4730
					0.0610	-0.0615	-0.2092	-0.5807	
905.	(0.00018)	RY*(9)	C	49	s(0.49%)	p42.07(20.47%)	d99.99(79.04%)		
					0.0000	0.0027	0.0632	0.0292	0.0018
					-0.0165	0.1764	-0.3781	-0.0056	0.0986
					0.1266	0.0098	-0.0588	-0.0326	-0.0954
					-0.1042	0.4825	0.7004	-0.2170	

906.	(0.00015)	RY*(10)	C	49	s(1.20%)p39.39(47.37%)d42.76(51.43%) 0.0000 0.0070 0.1075 -0.0195 -0.0059 0.0043 -0.0415 -0.4382 0.0141 -0.1277 0.2521 0.0078 -0.0180 -0.4467 0.5665 -0.0099 0.1430 -0.1938 0.3677
907.	(0.00009)	RY*(11)	C	49	s(14.52%)p 3.36(48.81%)d 2.52(36.66%)
908.	(0.00002)	RY*(12)	C	49	s(1.63%)p 6.92(11.25%)d53.56(87.12%)
909.	(0.00003)	RY*(13)	C	49	s(96.02%)p 0.02(1.67%)d 0.02(2.31%)
910.	(0.00000)	RY*(14)	C	49	s(99.80%)p 0.00(0.13%)d 0.00(0.06%)
911.	(0.00165)	RY*(1)	C	50	s(3.37%)p23.66(79.69%)d 5.03(16.95%) 0.0000 0.0010 -0.1183 0.1402 -0.0053 0.0060 -0.1020 -0.0779 -0.0074 -0.4681 0.0122 0.0117 0.7483 0.0308 0.2271 -0.3190 -0.1150 -0.0508 0.0184
912.	(0.00104)	RY*(2)	C	50	s(2.20%)p34.75(76.48%)d 9.69(21.32%) 0.0000 -0.0010 0.1055 -0.1042 0.0025 -0.0030 0.0555 0.0875 0.0111 0.7034 -0.0670 0.0079 0.5035 -0.0330 -0.3758 -0.2404 -0.0630 0.0624 -0.0793
913.	(0.00038)	RY*(3)	C	50	s(28.68%)p 2.48(71.03%)d 0.01(0.28%) 0.0000 -0.0040 0.4061 -0.3489 0.0127 -0.0151 0.7199 0.3426 -0.0010 -0.2591 0.0237 0.0014 0.0795 -0.0204 0.0297 -0.0258 -0.0023 -0.0341 -0.0112
914.	(0.00016)	RY*(4)	C	50	s(10.21%)p 5.43(55.42%)d 3.36(34.36%) 0.0000 0.0015 0.2870 -0.1396 -0.0170 -0.0007 -0.0710 -0.2184 -0.0086 0.2536 0.5343 -0.0071 0.2205 0.3209 0.4122 0.3560 0.1619 -0.0515 0.1348
915.	(0.00011)	RY*(5)	C	50	s(22.60%)p 2.81(63.42%)d 0.62(13.98%) 0.0000 0.0168 0.3334 -0.3313 -0.0695 -0.0023 -0.0478 -0.7229 0.0057 -0.1484 -0.1724 0.0004 0.0015 -0.2398 -0.1085 -0.0196 0.0160 0.2261 -0.2761
916.	(0.00008)	RY*(6)	C	50	s(33.44%)p 1.63(54.41%)d 0.36(12.15%)
917.	(0.00002)	RY*(7)	C	50	s(73.30%)p 0.26(18.92%)d 0.11(7.78%)
918.	(0.00003)	RY*(8)	C	50	s(9.89%)p 3.21(31.74%)d 5.90(58.37%)
919.	(0.00002)	RY*(9)	C	50	s(0.70%)p61.03(42.96%)d80.02(56.33%)
920.	(0.00001)	RY*(10)	C	50	s(0.52%)p99.99(85.09%)d27.92(14.39%)
921.	(0.00000)	RY*(11)	C	50	s(99.21%)p 0.01(0.57%)d 0.00(0.21%)
922.	(0.00000)	RY*(12)	C	50	s(0.22%)p37.56(8.37%)d99.99(91.41%)
923.	(0.00001)	RY*(13)	C	50	s(6.05%)p 1.29(7.78%)d14.25(86.17%)
924.	(0.00001)	RY*(14)	C	50	s(9.60%)p 0.45(4.29%)d 8.97(86.11%)
925.	(0.00364)	RY*(1)	C	51	s(2.61%)p34.38(89.60%)d 2.99(7.79%) 0.0000 0.0044 0.1586 0.0296 0.0029 -0.0082 -0.3436 0.0799 0.0134 0.4970 -0.0540 0.0248 0.7215 -0.0103 -0.1749 -0.1447 0.1603 0.0110 0.0241
926.	(0.00135)	RY*(2)	C	51	s(0.83%)p95.86(79.35%)d23.95(19.82%) 0.0000 0.0083 -0.0022 0.0903 0.0067 -0.0077 -0.6082 -0.1999 0.0059 0.3194 0.0172 -0.0003 -0.5245 -0.0787 0.1819 -0.3428 0.0605 -0.2055 -0.0415
927.	(0.00123)	RY*(3)	C	51	s(0.08%)p99.99(88.14%)d99.99(11.78%) 0.0000 -0.0004 0.0285 0.0053 -0.0002 0.0010 -0.5475 0.0826 0.0042 -0.7070 0.1569 0.0023 0.2128 -0.0711 0.1505 0.0520 0.2620 0.0894 -0.1258
928.	(0.00063)	RY*(4)	C	51	s(0.18%)p99.99(47.05%)d99.99(52.76%) 0.0000 0.0016 0.0429 -0.0001 0.0005 -0.0084 0.1741 0.1870 -0.0100 0.2628 0.5398 0.0060 -0.1000 -0.1861 0.3154 -0.0569 0.3098 0.5661 -0.0919
929.	(0.00048)	RY*(5)	C	51	s(57.09%)p 0.20(11.55%)d 0.55(31.36%) 0.0000 0.0037 0.7488 0.1007 -0.0066 -0.0049 0.1002 -0.1540 0.0112 -0.1117 -0.0041 0.0164 -0.1081 -0.2391 -0.0779 0.0206 0.2053 -0.0626 0.5109
930.	(0.00035)	RY*(6)	C	51	s(5.66%)p14.47(81.94%)d 2.19(12.40%) 0.0000 -0.0031 0.2090 -0.1103 0.0275 0.0065 -0.2133 0.7207 -0.0028 0.0952

					-0.4058	0.0074	-0.2822	-0.0313	-0.1068
					0.2542	-0.0595	0.2021	-0.0598	
931.	(0.00026)	RY*(7)	C	51	s(17.83%)	p 0.78(13.97%)	d 3.83(68.21%)		
					0.0000	-0.0019	0.4220	-0.0085	-0.0084
					-0.0094	0.2408	0.2330	0.0067	-0.1216
					-0.0272	-0.0007	0.1038	0.0305	0.2791
					-0.5302	-0.2004	-0.2478	-0.4706	
932.	(0.00025)	RY*(8)	C	51	s(0.20%)	p99.99(60.23%)	d99.99(39.57%)		
					0.0000	-0.0013	0.0422	-0.0161	-0.0003
					-0.0058	0.0773	-0.3247	-0.0011	-0.0244
					-0.6194	0.0003	0.0119	0.3263	0.3069
					-0.1261	0.3230	0.4224	-0.0530	
933.	(0.00018)	RY*(9)	C	51	s(0.22%)	p42.96(9.38%)	d99.99(90.40%)		
					0.0000	0.0021	0.0460	0.0067	-0.0041
					-0.0099	0.1420	-0.0835	-0.0171	0.1467
					-0.0834	0.0044	-0.0296	-0.1921	0.0679
					0.4654	0.5310	-0.4335	-0.4615	
934.	(0.00013)	RY*(10)	C	51	s(0.60%)	p99.99(61.14%)	d64.19(38.26%)		
					0.0000	0.0073	0.0765	-0.0060	-0.0044
					0.0134	-0.0777	-0.3421	-0.0065	0.0151
					-0.1924	-0.0027	0.0884	-0.6656	0.0261
					0.1471	-0.4392	0.2999	-0.2783	
935.	(0.00010)	RY*(11)	C	51	s(19.41%)	p 2.20(42.68%)	d 1.95(37.92%)		
					0.0000	-0.0013	0.3936	-0.1954	-0.0304
					0.0095	-0.1402	-0.2851	0.0000	0.0426
					0.2808	0.0182	-0.1262	0.4784	-0.3744
					0.2019	-0.1355	0.1970	-0.3756	
936.	(0.00003)	RY*(12)	C	51	s(93.08%)	p 0.02(2.07%)	d 0.05(4.85%)		
937.	(0.00002)	RY*(13)	C	51	s(2.42%)	p 5.36(12.96%)	d35.01(84.63%)		
938.	(0.00000)	RY*(14)	C	51	s(99.75%)	p 0.00(0.18%)	d 0.00(0.07%)		
939.	(0.00168)	RY*(1)	C	52	s(2.76%)	p29.07(80.38%)	d 6.10(16.86%)		
					0.0000	0.0008	-0.0974	0.1347	-0.0050
					0.0022	-0.0697	-0.0099	-0.0019	-0.4739
					-0.0775	0.0148	0.7535	-0.0154	0.1404
					-0.2105	-0.2567	-0.1143	-0.1600	
940.	(0.00104)	RY*(2)	C	52	s(2.02%)	p38.21(77.10%)	d10.35(20.88%)		
					0.0000	-0.0010	0.1021	-0.0987	0.0029
					0.0102	0.7770	-0.0218	-0.0084	-0.3778
					0.0889	-0.0037	-0.1088	0.0638	-0.1083
					-0.1219	0.2005	-0.3680	0.0812	
941.	(0.00037)	RY*(3)	C	52	s(26.52%)	p 2.76(73.13%)	d 0.01(0.35%)		
					0.0000	-0.0043	0.3776	-0.3499	0.0124
					-0.0078	0.2215	0.1974	-0.0127	0.5600
					0.2732	-0.0044	0.4952	0.0981	-0.0138
					-0.0424	-0.0347	0.0131	-0.0118	
942.	(0.00017)	RY*(4)	C	52	s(11.77%)	p 4.37(51.46%)	d 3.12(36.77%)		
					0.0000	0.0026	0.3227	-0.1149	-0.0188
					-0.0106	0.2501	0.3830	0.0048	-0.2271
					-0.4611	0.0000	-0.0448	-0.1976	0.0566
					0.2660	-0.1792	0.5029	-0.0935	
943.	(0.00011)	RY*(5)	C	52	s(21.30%)	p 3.04(64.75%)	d 0.66(13.96%)		
					0.0000	-0.0167	-0.2438	0.3848	0.0717
					-0.0045	0.1044	0.5771	0.0031	-0.0434
					0.3809	0.0030	-0.0845	0.3865	-0.1825
					0.0166	-0.2818	0.1519	0.0591	
944.	(0.00008)	RY*(6)	C	52	s(38.07%)	p 1.33(50.63%)	d 0.30(11.30%)		
945.	(0.00002)	RY*(7)	C	52	s(78.24%)	p 0.21(16.46%)	d 0.07(5.30%)		
946.	(0.00001)	RY*(8)	C	52	s(1.19%)	p81.77(97.42%)	d 1.16(1.39%)		
947.	(0.00001)	RY*(9)	C	52	s(2.09%)	p 4.11(8.58%)	d42.83(89.33%)		
948.	(0.00001)	RY*(10)	C	52	s(8.26%)	p 1.12(9.27%)	d 9.99(82.47%)		
949.	(0.00002)	RY*(11)	C	52	s(3.33%)	p14.52(48.35%)	d14.51(48.32%)		
950.	(0.00002)	RY*(12)	C	52	s(8.45%)	p 2.22(18.77%)	d 8.61(72.78%)		
951.	(0.00000)	RY*(13)	C	52	s(95.86%)	p 0.01(0.64%)	d 0.04(3.50%)		
952.	(0.00001)	RY*(14)	C	52	s(0.15%)	p21.75(3.25%)	d99.99(96.60%)		
953.	(0.00371)	RY*(1)	C	53	s(4.46%)	p19.79(88.30%)	d 1.62(7.24%)		
					0.0000	0.0044	0.1987	0.0713	0.0061
					-0.0152	-0.5844	0.0110	0.0245	0.7011
					-0.0180	0.0016	0.2176	-0.0361	-0.1422
					-0.0978	0.1067	-0.1658	-0.0613	
954.	(0.00163)	RY*(2)	C	53	s(2.95%)	p27.94(82.54%)	d 4.91(14.51%)		
					0.0000	0.0083	0.1627	0.0538	-0.0097

					0.0016	0.6211	-0.0926	0.0056	0.2637
					-0.1273	0.0045	0.5843	0.0616	-0.0282
					0.0599	0.1413	0.1070	-0.3306	
955.	(0.00137)	RY*(3)	C	53	s(5.90%)	p13.16(77.64%)	d 2.79(16.46%)		
					0.0000	-0.0013	0.2252	0.0902	0.0127
					-0.0038	0.3607	-0.0964	0.0024	0.4345
					-0.0827	-0.0026	-0.6599	-0.0761	-0.2242
					0.2835	0.0876	0.0536	0.1531	
956.	(0.00073)	RY*(4)	C	53	s(38.35%)	p 1.20(46.05%)	d 0.41(15.60%)		
					0.0000	0.0019	0.5306	0.3175	-0.0345
					-0.0030	-0.0774	0.1056	0.0133	-0.2532
					0.1244	0.0036	-0.1050	0.5938	-0.1845
					0.0302	-0.1479	-0.1507	-0.2764	
957.	(0.00061)	RY*(5)	C	53	s(0.74%)	p99.99(74.46%)	d33.51(24.80%)		
					0.0000	-0.0028	0.0769	-0.0364	0.0122
					0.0083	-0.2629	-0.7207	0.0061	-0.2003
					-0.3275	-0.0060	-0.0072	0.0919	0.1577
					0.3409	0.3097	0.0163	-0.1037	
958.	(0.00039)	RY*(6)	C	53	s(24.89%)	p 1.92(47.88%)	d 1.09(27.23%)		
					0.0000	-0.0011	0.4825	-0.1258	0.0190
					-0.0048	-0.0593	0.4003	0.0098	-0.2085
					-0.0545	-0.0020	0.0671	-0.5137	0.2140
					0.3950	0.1474	-0.2058	-0.0797	
959.	(0.00032)	RY*(7)	C	53	s(9.32%)	p 4.13(38.45%)	d 5.60(52.23%)		
					0.0000	0.0016	0.2980	-0.0615	0.0248
					-0.0051	0.0410	-0.1918	0.0016	-0.1203
					-0.5191	-0.0024	0.1362	-0.2085	-0.2935
					-0.2516	-0.5252	-0.1005	0.2948	
960.	(0.00029)	RY*(8)	C	53	s(13.15%)	p 1.87(24.65%)	d 4.73(62.20%)		
					0.0000	-0.0028	0.3047	-0.1891	-0.0540
					0.0010	-0.0270	-0.2016	0.0107	-0.0883
					0.2059	0.0143	-0.2298	-0.3191	-0.0425
					-0.5567	0.1396	0.3450	-0.4144	
961.	(0.00021)	RY*(9)	C	53	s(12.18%)	p 3.43(41.78%)	d 3.78(46.04%)		
					0.0000	0.0026	0.0298	0.3456	0.0378
					0.0001	0.0004	0.2557	-0.0147	0.0868
					-0.5485	0.0025	-0.1754	0.1141	0.5713
					-0.3170	0.1086	0.1457	-0.0220	
962.	(0.00013)	RY*(10)	C	53	s(9.61%)	p 1.11(10.65%)	d 8.30(79.74%)		
					0.0000	0.0002	0.1657	0.2602	0.0302
					0.0096	-0.1033	0.1323	0.0085	-0.1797
					0.0293	-0.0187	0.2113	0.0062	-0.3043
					0.0025	0.4134	0.5418	0.4902	
963.	(0.00010)	RY*(11)	C	53	s(9.57%)	p 2.96(28.32%)	d 6.49(62.11%)		
					0.0000	-0.0003	0.3086	0.0202	0.0057
					-0.0172	0.1901	-0.2816	-0.0004	0.0527
					0.3927	-0.0097	0.0817	0.0609	0.4177
					-0.2605	0.1231	-0.3427	0.4961	
964.	(0.00011)	RY*(12)	C	53	s(63.64%)	p 0.46(29.07%)	d 0.11(7.29%)		
					0.0000	-0.0038	-0.1321	0.7866	0.0120
					0.0053	-0.0164	-0.2188	-0.0069	-0.0499
					0.2111	0.0058	0.0413	-0.4401	0.0278
					0.0810	-0.2203	-0.0278	-0.1276	
965.	(0.00003)	RY*(13)	C	53	s(5.90%)	p 1.72(10.15%)	d14.22(83.95%)		
966.	(0.00000)	RY*(14)	C	53	s(99.28%)	p 0.00(0.32%)	d 0.00(0.41%)		
967.	(0.00150)	RY*(1)	C	54	s(6.65%)	p11.17(74.28%)	d 2.87(19.06%)		
					0.0000	0.0015	-0.1563	0.2051	-0.0076
					-0.0090	-0.8186	-0.1223	0.0095	0.1317
					-0.0980	-0.0069	-0.1750	-0.0050	0.2065
					-0.0939	0.1127	0.3332	-0.1243	
968.	(0.00097)	RY*(2)	C	54	s(0.75%)	p95.23(71.17%)	d37.58(28.08%)		
					0.0000	0.0010	-0.0525	0.0687	-0.0009
					0.0018	-0.0520	0.0149	0.0091	0.3931
					-0.1108	0.0131	0.7358	-0.0172	-0.0669
					-0.1448	-0.1436	0.2196	0.4319	
969.	(0.00026)	RY*(3)	C	54	s(16.75%)	p 4.82(80.81%)	d 0.15(2.45%)		
					0.0000	0.0049	-0.2034	0.3551	-0.0042
					0.0067	-0.0462	-0.2533	0.0076	-0.6974
					-0.3655	-0.0027	0.3083	0.1633	-0.0257
					0.0563	-0.0427	-0.1364	0.0142	
970.	(0.00011)	RY*(4)	C	54	s(21.74%)	p 3.37(73.26%)	d 0.23(5.00%)		

				0.0000	-0.0157	-0.0446	0.4562	0.0841
				-0.0019	-0.0302	-0.0716	-0.0012	-0.1121
				0.7449	0.0003	0.1832	-0.3542	-0.0984
				0.1679	0.1003	0.0123	-0.0440	
971.	(0.00012)	RY*(5)	C 54	s(14.62%)	p 4.19(61.31%)	d 1.65(24.07%)		
				0.0000	0.0075	-0.2044	0.3217	-0.0301
				-0.0032	0.2470	0.0470	-0.0046	0.3075
				0.1203	-0.0073	0.1257	0.6519	0.1268
				-0.0393	0.0858	0.0273	-0.4636	
972.	(0.00007)	RY*(6)	C 54	s(32.06%)	p 1.38(44.30%)	d 0.74(23.64%)		
973.	(0.00003)	RY*(7)	C 54	s(77.70%)	p 0.14(11.11%)	d 0.14(11.19%)		
974.	(0.00003)	RY*(8)	C 54	s(0.56%)	p99.99(91.54%)	d14.10(7.90%)		
975.	(0.00003)	RY*(9)	C 54	s(16.05%)	p 1.40(22.39%)	d 3.83(61.56%)		
976.	(0.00001)	RY*(10)	C 54	s(1.39%)	p 3.23(4.48%)	d67.94(94.14%)		
977.	(0.00001)	RY*(11)	C 54	s(1.94%)	p 7.46(14.50%)	d42.96(83.55%)		
978.	(0.00000)	RY*(12)	C 54	s(6.36%)	p 0.56(3.57%)	d14.17(90.08%)		
979.	(0.00001)	RY*(13)	C 54	s(4.29%)	p10.88(46.65%)	d11.44(49.07%)		
980.	(0.00000)	RY*(14)	C 54	s(99.14%)	p 0.01(0.82%)	d 0.00(0.04%)		
981.	(0.00160)	RY*(1)	C 55	s(8.63%)	p 8.47(73.11%)	d 2.12(18.26%)		
				0.0000	-0.0071	0.2627	-0.1314	0.0003
				0.0003	0.2914	0.1130	-0.0146	-0.0432
				0.1474	-0.0172	-0.7659	-0.1507	-0.1076
				0.1990	0.3499	-0.0473	-0.0821	
982.	(0.00113)	RY*(2)	C 55	s(2.58%)	p30.66(79.23%)	d 7.04(18.18%)		
				0.0000	-0.0019	0.1290	-0.0958	-0.0033
				-0.0142	-0.6721	0.1256	0.0036	0.5352
				0.0342	-0.0027	-0.1924	0.0016	0.2924
				0.1034	0.0903	0.2779	0.0171	
983.	(0.00043)	RY*(3)	C 55	s(7.91%)	p11.44(90.47%)	d 0.21(1.63%)		
				0.0000	0.0048	-0.0783	0.2701	-0.0012
				0.0064	-0.5202	0.0077	0.0102	-0.7159
				-0.2619	-0.0060	-0.2296	0.0022	0.0535
				0.0379	0.0995	0.0200	-0.0406	
984.	(0.00016)	RY*(4)	C 55	s(76.62%)	p 0.25(18.86%)	d 0.06(4.52%)		
				0.0000	0.0064	0.6640	-0.5697	-0.0263
				0.0026	-0.1698	-0.0221	0.0004	-0.2481
				-0.0481	-0.0052	0.2820	-0.1259	-0.0267
				0.0098	-0.0713	-0.1722	-0.0980	
985.	(0.00015)	RY*(5)	C 55	s(0.32%)	p99.99(97.03%)	d 8.21(2.64%)		
				0.0000	-0.0015	0.0554	0.0014	0.0121
				-0.0056	0.1541	0.9199	0.0008	-0.1021
				-0.0925	-0.0032	0.1091	0.2636	0.1298
				0.0215	-0.0437	0.0818	0.0233	
986.	(0.00009)	RY*(6)	C 55	s(3.69%)	p23.98(88.47%)	d 2.12(7.84%)		
987.	(0.00009)	RY*(7)	C 55	s(19.02%)	p 1.02(19.32%)	d 3.24(61.66%)		
988.	(0.00004)	RY*(8)	C 55	s(9.12%)	p 8.09(73.83%)	d 1.87(17.04%)		
989.	(0.00004)	RY*(9)	C 55	s(63.98%)	p 0.23(15.02%)	d 0.33(21.00%)		
990.	(0.00001)	RY*(10)	C 55	s(1.35%)	p 7.73(10.41%)	d65.53(88.24%)		
991.	(0.00002)	RY*(11)	C 55	s(0.71%)	p28.29(20.13%)	d99.99(79.16%)		
992.	(0.00000)	RY*(12)	C 55	s(99.18%)	p 0.01(0.71%)	d 0.00(0.11%)		
993.	(0.00001)	RY*(13)	C 55	s(4.27%)	p 1.67(7.13%)	d20.73(88.59%)		
994.	(0.00001)	RY*(14)	C 55	s(2.62%)	p 2.46(6.44%)	d34.76(90.94%)		
995.	(0.00167)	RY*(1)	C 56	s(8.76%)	p 8.44(73.95%)	d 1.97(17.29%)		
				0.0000	-0.0072	0.2790	0.0985	-0.0006
				-0.0120	0.0243	0.1433	0.0184	0.8349
				0.1281	0.0077	-0.0042	-0.0663	-0.3177
				0.0276	0.2293	0.1273	0.0496	
996.	(0.00111)	RY*(2)	C 56	s(2.23%)	p36.36(81.12%)	d 7.46(16.65%)		
				0.0000	-0.0032	0.0974	0.1132	-0.0016
				-0.0093	-0.2570	0.0912	-0.0032	-0.0665
				0.0018	-0.0117	-0.8555	0.0154	-0.0071
				0.1594	-0.0387	0.2002	-0.3154	
997.	(0.00050)	RY*(3)	C 56	s(2.73%)	p35.23(96.09%)	d 0.43(1.18%)		
				0.0000	-0.0060	0.0441	0.1590	0.0048
				-0.0109	0.9077	0.2141	-0.0045	-0.0771
				0.0334	0.0067	-0.2517	-0.1436	0.0465
				0.0094	-0.0418	-0.0752	0.0465	
998.	(0.00022)	RY*(4)	C 56	s(80.54%)	p 0.21(16.56%)	d 0.04(2.90%)		
				0.0000	0.0076	0.6293	0.6394	-0.0242
				-0.0023	-0.0661	-0.2740	0.0024	-0.2625
				0.0420	0.0020	0.1240	-0.0079	-0.0348

999.	(0.00013)	RY*(5)	C	56	-0.1246 -0.0151 0.0574 0.0935
					s(2.27%)p22.17(50.43%)d20.79(47.29%)
					0.0000 0.0000 0.0619 0.1361 0.0200
					-0.0095 0.0862 0.4238 0.0002 -0.0399
					-0.0955 -0.0107 0.3761 0.4062 -0.0091
					0.2037 -0.1882 0.3286 -0.5366
1000.	(0.00010)	RY*(6)	C	56	s(9.31%)p 9.31(86.70%)d 0.43(3.99%)
					0.0000 -0.0127 0.2868 -0.0892 0.0526
					-0.0005 -0.2289 0.6088 0.0098 -0.1389
					-0.2782 0.0060 0.1013 -0.5805 0.0834
					0.0633 0.0028 -0.1518 0.0765
1001.	(0.00004)	RY*(7)	C	56	s(5.89%)p15.45(91.00%)d 0.53(3.11%)
1002.	(0.00005)	RY*(8)	C	56	s(11.22%)p 5.05(56.71%)d 2.86(32.07%)
1003.	(0.00003)	RY*(9)	C	56	s(49.46%)p 0.50(24.96%)d 0.52(25.58%)
1004.	(0.00001)	RY*(10)	C	56	s(6.81%)p 1.33(9.06%)d12.36(84.14%)
1005.	(0.00001)	RY*(11)	C	56	s(0.25%)p 7.08(1.79%)d99.99(97.95%)
1006.	(0.00001)	RY*(12)	C	56	s(11.94%)p 0.42(4.97%)d 6.96(83.08%)
1007.	(0.00001)	RY*(13)	C	56	s(10.09%)p 0.57(5.74%)d 8.34(84.17%)
1008.	(0.00000)	RY*(14)	C	56	s(98.48%)p 0.01(1.11%)d 0.00(0.41%)
1009.	(0.00187)	RY*(1)	C	57	s(1.79%)p46.60(83.57%)d 8.16(14.64%)
					0.0000 0.0037 -0.0750 0.1108 -0.0023
					-0.0034 0.4307 0.0328 0.0064 0.3973
					0.0597 -0.0157 -0.6981 -0.0086 0.2045
					-0.1301 -0.1375 -0.0012 -0.2621
1010.	(0.00134)	RY*(2)	C	57	s(0.12%)p99.99(86.61%)d99.99(13.27%)
					0.0000 0.0052 0.0301 0.0172 -0.0016
					0.0035 0.6855 0.0216 -0.0096 -0.6250
					-0.0350 0.0070 0.0505 0.0338 0.0082
					0.1834 -0.1517 0.2739 0.0303
1011.	(0.00047)	RY*(3)	C	57	s(22.08%)p 3.47(76.71%)d 0.05(1.21%)
					0.0000 -0.0009 -0.2013 0.4245 -0.0116
					-0.0024 0.3393 -0.0366 -0.0114 0.4757
					0.1318 -0.0083 0.5976 0.2227 0.0585
					0.0394 -0.0709 0.0455 0.0056
1012.	(0.00025)	RY*(4)	C	57	s(41.19%)p 1.36(56.18%)d 0.06(2.63%)
					0.0000 -0.0071 0.5899 -0.2526 0.0019
					-0.0011 0.2026 -0.6817 0.0040 0.2245
					0.0648 0.0058 0.0345 0.0172 -0.1029
					0.0572 0.0557 -0.0050 0.0963
1013.	(0.00018)	RY*(5)	C	57	s(4.67%)p14.41(67.26%)d 6.01(28.07%)
					0.0000 -0.0069 0.1857 -0.1060 0.0304
					-0.0059 0.3421 0.3240 0.0074 0.1411
					-0.5995 0.0028 0.1484 -0.2218 -0.0482
					-0.2562 0.3132 -0.3164 0.1204
1014.	(0.00015)	RY*(6)	C	57	s(33.78%)p 1.66(56.19%)d 0.30(10.03%)
					0.0000 -0.0149 -0.2684 0.5124 0.0549
					-0.0024 -0.0594 -0.5564 0.0021 -0.2086
					-0.3052 0.0034 -0.0639 -0.3285 -0.1486
					-0.2285 -0.0586 -0.1416 -0.0505
1015.	(0.00008)	RY*(7)	C	57	s(56.44%)p 0.44(25.04%)d 0.33(18.53%)
1016.	(0.00006)	RY*(8)	C	57	s(9.60%)p 5.34(51.26%)d 4.08(39.14%)
1017.	(0.00002)	RY*(9)	C	57	s(2.56%)p 3.63(9.29%)d34.42(88.15%)
1018.	(0.00003)	RY*(10)	C	57	s(18.89%)p 3.92(74.11%)d 0.37(7.01%)
1019.	(0.00002)	RY*(11)	C	57	s(1.89%)p 2.61(4.94%)d49.20(93.16%)
1020.	(0.00001)	RY*(12)	C	57	s(3.87%)p 0.58(2.26%)d24.25(93.87%)
1021.	(0.00000)	RY*(13)	C	57	s(98.43%)p 0.01(1.19%)d 0.00(0.38%)
1022.	(0.00000)	RY*(14)	C	57	s(4.69%)p 1.19(5.57%)d19.15(89.74%)
1023.	(0.00156)	RY*(1)	C	58	s(7.44%)p 9.86(73.27%)d 2.59(19.29%)
					0.0000 -0.0066 0.2518 -0.1045 -0.0006
					-0.0133 -0.7880 -0.1800 0.0062 -0.0617
					-0.1196 -0.0142 -0.2379 0.0652 -0.2421
					0.2552 -0.0314 -0.1846 0.1847
1024.	(0.00112)	RY*(2)	C	58	s(2.52%)p31.77(79.92%)d 6.98(17.57%)
					0.0000 0.0027 -0.1095 0.1147 0.0006
					0.0012 0.1545 0.0127 -0.0139 -0.5996
					0.0977 -0.0075 -0.6365 -0.0260 0.0288
					-0.0744 0.1265 0.2222 0.3224
1025.	(0.00046)	RY*(3)	C	58	s(4.69%)p20.08(94.15%)d 0.25(1.16%)
					0.0000 0.0045 -0.0698 0.2049 -0.0001
					-0.0087 0.0763 0.0612 -0.0061 0.7031
					0.1100 0.0069 -0.6076 -0.2369 -0.0389

1026.	(0.00018)	RY*(4)	C	58	0.0484 -0.0479 -0.0735 0.0041 s(56.89%)p 0.55(31.50%)d 0.20(11.61%) 0.0000 0.0050 0.5975 -0.4597 -0.0212 -0.0045 0.2505 -0.1436 -0.0043 0.1651 0.4283 -0.0055 -0.0125 0.1440 -0.0041 -0.0679 0.0376 0.1019 0.3158
1027.	(0.00014)	RY*(5)	C	58	s(21.39%)p 2.45(52.31%)d 1.23(26.30%) 0.0000 0.0024 -0.2624 0.3805 -0.0160 0.0063 -0.2890 -0.0072 -0.0101 0.1192 0.5553 -0.0044 0.3389 -0.0443 0.0325 0.0487 0.2146 0.2136 0.4098
1028.	(0.00010)	RY*(6)	C	58	s(5.13%)p16.39(84.08%)d 2.10(10.79%)
1029.	(0.00006)	RY*(7)	C	58	s(0.80%)p68.21(54.71%)d55.46(44.49%)
1030.	(0.00004)	RY*(8)	C	58	s(4.17%)p22.59(94.12%)d 0.41(1.71%)
1031.	(0.00004)	RY*(9)	C	58	s(82.79%)p 0.09(7.48%)d 0.12(9.73%)
1032.	(0.00001)	RY*(10)	C	58	s(0.99%)p 6.12(6.05%)d93.94(92.96%)
1033.	(0.00001)	RY*(11)	C	58	s(6.56%)p 0.98(6.45%)d13.26(86.99%)
1034.	(0.00001)	RY*(12)	C	58	s(4.82%)p 1.43(6.91%)d18.33(88.27%)
1035.	(0.00001)	RY*(13)	C	58	s(3.27%)p 2.60(8.50%)d26.98(88.23%)
1036.	(0.00000)	RY*(14)	C	58	s(98.56%)p 0.01(0.73%)d 0.01(0.71%)
1037.	(0.00167)	RY*(1)	C	59	s(5.32%)p14.47(77.04%)d 3.32(17.64%) 0.0000 -0.0030 0.1712 -0.1545 0.0057 -0.0044 -0.4947 -0.0820 -0.0042 -0.6189 -0.0630 -0.0170 -0.3566 0.0659 -0.2425 0.0501 0.0381 0.1122 0.3179
1038.	(0.00108)	RY*(2)	C	59	s(0.69%)p99.99(80.45%)d27.28(18.86%) 0.0000 0.0005 0.0611 -0.0564 -0.0012 0.0085 0.7263 -0.0772 -0.0071 -0.5161 0.0310 -0.0012 -0.0223 0.0555 0.1376 -0.3228 0.1759 0.1608 0.0931
1039.	(0.00050)	RY*(3)	C	59	s(5.19%)p17.85(92.62%)d 0.42(2.19%) 0.0000 0.0019 0.0192 0.2269 -0.0061 -0.0067 0.2188 -0.1391 -0.0065 0.3363 0.1179 0.0048 -0.8331 -0.1942 -0.0716 0.0030 -0.0191 0.0440 0.1204
1040.	(0.00021)	RY*(4)	C	59	s(68.99%)p 0.44(30.07%)d 0.01(0.93%) 0.0000 -0.0063 0.7741 -0.3010 0.0065 -0.0008 0.1354 -0.1842 0.0060 0.2799 -0.3540 -0.0079 0.0239 0.2100 -0.0692 0.0362 -0.0508 -0.0221 0.0131
1041.	(0.00016)	RY*(5)	C	59	s(1.84%)p44.82(82.52%)d 8.49(15.64%) 0.0000 0.0038 0.1287 -0.0376 -0.0205 -0.0045 0.2098 0.7132 0.0051 -0.1774 -0.2749 0.0018 -0.0899 -0.3967 -0.1202 0.3029 -0.1840 -0.1026 -0.0762
1042.	(0.00010)	RY*(6)	C	59	s(31.55%)p 1.90(59.83%)d 0.27(8.63%)
1043.	(0.00008)	RY*(7)	C	59	s(1.58%)p23.38(36.87%)d39.02(61.55%)
1044.	(0.00005)	RY*(8)	C	59	s(25.17%)p 2.52(63.53%)d 0.45(11.30%)
1045.	(0.00004)	RY*(9)	C	59	s(50.33%)p 0.78(39.17%)d 0.21(10.50%)
1046.	(0.00001)	RY*(10)	C	59	s(2.65%)p 2.48(6.59%)d34.20(90.76%)
1047.	(0.00001)	RY*(11)	C	59	s(2.49%)p 3.78(9.40%)d35.44(88.12%)
1048.	(0.00000)	RY*(12)	C	59	s(98.99%)p 0.01(0.74%)d 0.00(0.27%)
1049.	(0.00001)	RY*(13)	C	59	s(0.10%)p67.04(6.51%)d99.99(93.40%)
1050.	(0.00001)	RY*(14)	C	59	s(5.11%)p 2.90(14.84%)d15.65(80.04%)
1051.	(0.00173)	RY*(1)	C	60	s(5.05%)p15.51(78.28%)d 3.31(16.68%) 0.0000 -0.0088 0.2127 -0.0718 -0.0011 0.0076 -0.1631 -0.1686 -0.0093 -0.6923 -0.0748 0.0174 0.4893 0.0553 -0.3247 0.2155 -0.0018 -0.0602 0.1062
1052.	(0.00133)	RY*(2)	C	60	s(0.23%)p99.99(87.03%)d55.56(12.74%) 0.0000 0.0041 0.0466 -0.0103 -0.0002 -0.0024 -0.1142 0.0048 0.0021 0.5711 0.0098 0.0151 0.7269 0.0476 0.1948 0.2499 0.0401 -0.0338 0.1558
1053.	(0.00047)	RY*(3)	C	60	s(25.08%)p 2.94(73.78%)d 0.05(1.14%) 0.0000 0.0029 -0.3162 0.3883 -0.0061 -0.0144 0.7474 0.2395 0.0044 -0.2047 -0.0910 0.0017 0.2645 0.0376 0.0918 0.0298 -0.0329 0.0228 0.0213
1054.	(0.00023)	RY*(4)	C	60	s(54.05%)p 0.70(37.90%)d 0.15(8.04%) 0.0000 -0.0064 -0.5018 0.5373 0.0081

					0.0028	-0.5458	-0.0789	0.0101	-0.1548
					-0.1355	-0.0012	0.0056	-0.1801	0.2390
					-0.0339	0.0287	-0.0766	0.1244	
1055.	(0.00019)	RY*(5)	C	60	s(9.71%)	p 6.48(62.90%)	d 2.82(27.39%)		
					0.0000	0.0019	0.2406	-0.1955	-0.0309
					-0.0037	0.0441	0.2592	0.0093	-0.0902
					-0.5749	0.0078	-0.1546	-0.4441	0.3335
					0.3008	0.0801	0.0471	0.2521	
1056.	(0.00011)	RY*(6)	C	60	s(1.41%)	p64.69(90.91%)	d 5.47(7.68%)		
					0.0000	-0.0150	-0.0657	-0.0474	0.0852
					-0.0033	0.2507	-0.6599	-0.0076	0.1219
					-0.1035	0.0057	0.1125	-0.6103	-0.1308
					-0.1979	0.0041	-0.1022	-0.1003	
1057.	(0.00006)	RY*(7)	C	60	s(25.97%)	p 1.51(39.33%)	d 1.34(34.70%)		
1058.	(0.00003)	RY*(8)	C	60	s(1.92%)	p46.22(88.92%)	d 4.76(9.15%)		
1059.	(0.00004)	RY*(9)	C	60	s(44.58%)	p 0.35(15.81%)	d 0.89(39.61%)		
1060.	(0.00001)	RY*(10)	C	60	s(8.40%)	p 1.21(10.21%)	d 9.68(81.39%)		
1061.	(0.00001)	RY*(11)	C	60	s(1.23%)	p 2.60(3.20%)	d77.64(95.57%)		
1062.	(0.00001)	RY*(12)	C	60	s(0.10%)	p64.51(6.24%)	d99.99(93.66%)		
1063.	(0.00001)	RY*(13)	C	60	s(24.30%)	p 0.18(4.49%)	d 2.93(71.21%)		
1064.	(0.00000)	RY*(14)	C	60	s(97.96%)	p 0.01(1.20%)	d 0.01(0.84%)		
1065.	(0.00159)	RY*(1)	C	61	s(8.44%)	p 8.68(73.25%)	d 2.17(18.31%)		
					0.0000	-0.0069	0.2681	-0.1117	-0.0007
					0.0098	0.7183	0.1639	-0.0173	-0.1999
					0.1207	-0.0084	-0.3610	-0.0662	-0.2394
					0.0838	0.1175	-0.3114	0.0892	
1066.	(0.00108)	RY*(2)	C	61	s(2.62%)	p30.41(79.83%)	d 6.68(17.54%)		
					0.0000	0.0026	-0.1109	0.1181	0.0010
					-0.0027	-0.3166	0.0107	0.0053	0.0348
					-0.0798	-0.0140	-0.8297	0.0417	0.0964
					0.1194	0.3403	0.1550	0.1096	
1067.	(0.00046)	RY*(3)	C	61	s(3.11%)	p30.61(95.27%)	d 0.52(1.62%)		
					0.0000	0.0050	-0.0588	0.1663	-0.0001
					0.0108	-0.1977	-0.0964	0.0084	-0.9291
					-0.1933	-0.0012	0.0519	-0.0304	-0.0476
					-0.0024	-0.0097	-0.1175	-0.0018	
1068.	(0.00019)	RY*(4)	C	61	s(44.11%)	p 0.88(38.66%)	d 0.39(17.23%)		
					0.0000	0.0034	0.5640	-0.3504	-0.0163
					0.0025	-0.1936	0.2302	-0.0010	-0.0589
					-0.2028	-0.0103	0.1930	0.4628	0.1125
					0.1461	0.3398	0.0456	0.1439	
1069.	(0.00014)	RY*(5)	C	61	s(35.88%)	p 1.19(42.57%)	d 0.60(21.54%)		
					0.0000	-0.0038	-0.3676	0.4728	0.0123
					-0.0069	0.3673	-0.0265	0.0026	0.0457
					-0.1719	-0.0091	0.2211	0.4576	-0.0271
					0.0224	0.3460	0.1342	0.2766	
1070.	(0.00010)	RY*(6)	C	61	s(3.50%)	p25.63(89.80%)	d 1.91(6.69%)		
1071.	(0.00006)	RY*(7)	C	61	s(1.25%)	p45.28(56.44%)	d33.94(42.31%)		
1072.	(0.00004)	RY*(8)	C	61	s(3.35%)	p26.23(87.89%)	d 2.61(8.76%)		
1073.	(0.00004)	RY*(9)	C	61	s(79.47%)	p 0.10(8.31%)	d 0.15(12.22%)		
1074.	(0.00001)	RY*(10)	C	61	s(0.55%)	p19.49(10.75%)	d99.99(88.69%)		
1075.	(0.00001)	RY*(11)	C	61	s(1.38%)	p 0.99(1.37%)	d70.56(97.25%)		
1076.	(0.00001)	RY*(12)	C	61	s(16.65%)	p 0.70(11.58%)	d 4.31(71.77%)		
1077.	(0.00000)	RY*(13)	C	61	s(98.85%)	p 0.01(0.94%)	d 0.00(0.21%)		
1078.	(0.00001)	RY*(14)	C	61	s(0.83%)	p 4.24(3.51%)	d99.99(95.67%)		
1079.	(0.00178)	RY*(1)	C	62	s(3.90%)	p20.59(80.33%)	d 4.04(15.76%)		
					0.0000	-0.0012	0.1410	-0.1382	0.0042
					0.0025	0.4603	0.0253	0.0147	0.7545
					0.0758	0.0126	0.1060	-0.0642	-0.1967
					0.1369	0.2611	-0.0385	0.1748	
1080.	(0.00127)	RY*(2)	C	62	s(1.27%)	p67.26(85.19%)	d10.69(13.54%)		
					0.0000	0.0038	-0.0232	0.1099	-0.0051
					-0.0041	-0.7585	0.0517	0.0089	0.5086
					0.0361	-0.0029	-0.0873	0.0782	-0.0590
					-0.2530	0.1880	0.0637	-0.1690	
1081.	(0.00040)	RY*(3)	C	62	s(23.33%)	p 3.27(76.26%)	d 0.02(0.41%)		
					0.0000	0.0020	-0.3315	0.3510	-0.0155
					0.0031	-0.0083	-0.1771	0.0008	0.0321
					0.1373	-0.0156	0.8009	0.2638	0.0398
					0.0145	-0.0051	-0.0185	0.0438	
1082.	(0.00023)	RY*(4)	C	62	s(32.53%)	p 2.00(64.96%)	d 0.08(2.52%)		

					0.0000	-0.0015	0.5613	-0.0999	-0.0140
					-0.0020	-0.0997	0.6255	-0.0001	-0.1671
					-0.1659	0.0022	0.3716	0.2341	-0.0723
					-0.0369	0.1124	-0.0420	0.0648	
1083.	(0.00016)	RY*(5)	C	62	s(4.09%)	p16.33(66.81%)	d 7.11(29.10%)		
					0.0000	-0.0144	0.1954	0.0197	0.0462
					0.0079	-0.3246	0.0229	-0.0058	0.0239
					0.2666	0.0053	0.2184	-0.6654	0.1223
					0.4110	-0.2164	-0.0395	0.2425	
1084.	(0.00012)	RY*(6)	C	62	s(37.10%)	p 1.48(54.73%)	d 0.22(8.18%)		
					0.0000	-0.0122	-0.4030	0.4543	0.0444
					0.0011	0.1584	0.6149	0.0048	0.0862
					-0.2110	-0.0022	-0.0871	-0.2908	-0.0455
					0.0954	-0.0362	-0.0870	-0.2485	
1085.	(0.00007)	RY*(7)	C	62	s(63.93%)	p 0.43(27.33%)	d 0.14(8.75%)		
1086.	(0.00007)	RY*(8)	C	62	s(5.40%)	p10.02(54.08%)	d 7.51(40.52%)		
1087.	(0.00003)	RY*(9)	C	62	s(1.38%)	p 8.83(12.22%)	d62.40(86.40%)		
1088.	(0.00004)	RY*(10)	C	62	s(14.48%)	p 4.55(65.86%)	d 1.36(19.66%)		
1089.	(0.00000)	RY*(11)	C	62	s(98.76%)	p 0.01(1.17%)	d 0.00(0.07%)		
1090.	(0.00001)	RY*(12)	C	62	s(1.46%)	p 2.44(3.57%)	d64.88(94.97%)		
1091.	(0.00001)	RY*(13)	C	62	s(6.41%)	p 0.22(1.38%)	d14.39(92.21%)		
1092.	(0.00001)	RY*(14)	C	62	s(5.97%)	p 1.06(6.30%)	d14.70(87.73%)		
1093.	(0.00043)	RY*(1)	H	63	s(99.24%)	p 0.01(0.76%)			
					-0.0010	0.9961	0.0108	-0.0448	0.0676
					0.0317				
1094.	(0.00028)	RY*(2)	H	63	s(3.98%)	p24.14(96.02%)			
					0.0002	-0.0799	0.1828	-0.2234	0.6891
					0.6599				
1095.	(0.00011)	RY*(3)	H	63	s(0.09%)	p99.99(99.91%)			
					-0.0014	0.0244	-0.0171	0.0234	-0.6833
					0.7291				
1096.	(0.00010)	RY*(4)	H	63	s(82.23%)	p 0.22(17.77%)			
1097.	(0.00003)	RY*(5)	H	63	s(14.52%)	p 5.88(85.48%)			
1098.	(0.00043)	RY*(1)	H	64	s(98.90%)	p 0.01(1.10%)			
					-0.0008	0.9945	0.0069	0.0413	0.0260
					0.0928				
1099.	(0.00028)	RY*(2)	H	64	s(1.51%)	p65.32(98.49%)			
					0.0001	-0.0707	0.1004	-0.2399	0.7009
					0.6603				
1100.	(0.00011)	RY*(3)	H	64	s(2.34%)	p41.66(97.66%)			
					0.0000	0.0646	0.1388	-0.9505	-0.1030
					-0.2501				
1101.	(0.00010)	RY*(4)	H	64	s(85.22%)	p 0.17(14.78%)			
					0.0089	-0.0232	0.9228	0.1092	-0.2995
					0.2148				
1102.	(0.00003)	RY*(5)	H	64	s(12.09%)	p 7.27(87.91%)			
1103.	(0.00120)	RY*(1)	H	65	s(99.17%)	p 0.01(0.83%)			
					-0.0032	0.9958	0.0055	0.0033	-0.0316
					-0.0851				
1104.	(0.00029)	RY*(2)	H	65	s(26.01%)	p 2.85(73.99%)			
					-0.0007	-0.0115	0.5098	-0.7527	-0.4158
					0.0240				
1105.	(0.00026)	RY*(3)	H	65	s(64.44%)	p 0.55(35.56%)			
					0.0000	-0.0233	0.8024	0.3361	0.3566
					-0.3398				
1106.	(0.00011)	RY*(4)	H	65	s(10.00%)	p 9.00(90.00%)			
					-0.0018	0.0652	0.3094	0.3394	-0.1867
					0.8660				
1107.	(0.00004)	RY*(5)	H	65	s(0.43%)	p99.99(99.57%)			
1108.	(0.00029)	RY*(1)	H	66	s(99.82%)	p 0.00(0.18%)			
					-0.0019	0.9991	0.0059	0.0340	0.0150
					0.0208				
1109.	(0.00022)	RY*(2)	H	66	s(0.13%)	p99.99(99.87%)			
					0.0000	0.0340	0.0122	-0.8391	-0.5298
					0.1179				
1110.	(0.00018)	RY*(3)	H	66	s(99.72%)	p 0.00(0.28%)			
					-0.0012	-0.0076	0.9985	0.0132	0.0127
					0.0501				
1111.	(0.00012)	RY*(4)	H	66	s(0.19%)	p99.99(99.81%)			
					0.0003	0.0145	0.0408	0.2887	-0.6179
					-0.7301				

1112.	(0.00002)	RY*(5)	H	66	s(0.20%)p99.99(99.80%)
1113.	(0.00103)	RY*(1)	H	67	s(98.65%)p 0.01(1.35%) 0.0032 0.9932 -0.0069 0.0064 -0.1096 -0.0375
1114.	(0.00028)	RY*(2)	H	67	s(84.68%)p 0.18(15.32%) -0.0008 0.0269 0.9198 -0.3262 0.1972 -0.0886
1115.	(0.00024)	RY*(3)	H	67	s(4.23%)p22.63(95.77%) 0.0016 0.0380 0.2022 0.8692 0.4288 -0.1354
1116.	(0.00013)	RY*(4)	H	67	s(11.87%)p 7.43(88.13%) -0.0003 -0.0837 0.3341 0.3715 -0.8333 0.2211
1117.	(0.00004)	RY*(5)	H	67	s(0.62%)p99.99(99.38%)
1118.	(0.00136)	RY*(1)	H	68	s(99.24%)p 0.01(0.76%) 0.0031 0.9962 -0.0038 -0.0083 -0.0608 -0.0619
1119.	(0.00033)	RY*(2)	H	68	s(60.61%)p 0.65(39.39%) -0.0010 0.0021 0.7785 -0.2316 -0.4077 0.4172
1120.	(0.00025)	RY*(3)	H	68	s(31.85%)p 2.14(68.15%) 0.0008 0.0289 0.5636 0.5856 0.5504 -0.1890
1121.	(0.00011)	RY*(4)	H	68	s(7.86%)p11.72(92.14%) -0.0014 -0.0581 0.2743 -0.4752 -0.0580 -0.8320
1122.	(0.00004)	RY*(5)	H	68	s(0.49%)p99.99(99.51%)
1123.	(0.00031)	RY*(1)	H	69	s(98.47%)p 0.02(1.53%) -0.0022 0.9922 -0.0151 0.0465 0.0774 -0.0845
1124.	(0.00024)	RY*(2)	H	69	s(13.29%)p 6.53(86.71%) -0.0002 0.1174 0.3451 -0.5237 -0.6091 0.4710
1125.	(0.00018)	RY*(3)	H	69	s(87.95%)p 0.14(12.05%) -0.0007 -0.0270 0.9374 0.1739 0.2605 -0.1498
1126.	(0.00012)	RY*(4)	H	69	s(0.20%)p99.99(99.80%) -0.0003 -0.0108 0.0437 0.2951 -0.7176 -0.6293
1127.	(0.00002)	RY*(5)	H	69	s(0.15%)p99.99(99.85%)
1128.	(0.00114)	RY*(1)	H	70	s(99.17%)p 0.01(0.83%) -0.0031 0.9958 0.0057 0.0680 -0.0438 -0.0417
1129.	(0.00027)	RY*(2)	H	70	s(89.04%)p 0.12(10.96%) -0.0006 -0.0279 0.9432 0.2883 -0.1416 0.0802
1130.	(0.00026)	RY*(3)	H	70	s(0.42%)p99.99(99.58%) -0.0002 0.0313 0.0570 -0.6226 -0.6525 0.4270
1131.	(0.00011)	RY*(4)	H	70	s(11.05%)p 8.05(88.95%) -0.0017 0.0592 0.3271 -0.7227 0.5357 -0.2832
1132.	(0.00004)	RY*(5)	H	70	s(0.37%)p99.99(99.63%)
1133.	(0.00044)	RY*(1)	H	71	s(99.83%)p 0.00(0.17%) -0.0010 0.9991 0.0056 0.0364 -0.0179 0.0070
1134.	(0.00033)	RY*(2)	H	71	s(2.67%)p36.40(97.33%) 0.0001 -0.0256 0.1615 0.4321 -0.1546 0.8733
1135.	(0.00012)	RY*(3)	H	71	s(0.25%)p99.99(99.75%) 0.0019 -0.0131 0.0483 -0.1072 -0.9844 -0.1306
1136.	(0.00010)	RY*(4)	H	71	s(84.66%)p 0.18(15.34%)
1137.	(0.00003)	RY*(5)	H	71	s(12.65%)p 6.91(87.35%)
1138.	(0.00044)	RY*(1)	H	72	s(99.55%)p 0.00(0.45%) -0.0010 0.9977 0.0107 0.0165 0.0270 0.0591
1139.	(0.00033)	RY*(2)	H	72	s(4.21%)p22.73(95.79%) 0.0001 -0.0570 0.1972 0.4318 -0.1354 0.8678
1140.	(0.00011)	RY*(3)	H	72	s(1.80%)p54.61(98.20%)

					0.0020	-0.0216	0.1323	-0.8356	0.3106
					0.4327				
1141.	(0.00010)	RY*(4)	H	72	s(84.30%)p	0.19(15.70%)			
					0.0079	-0.0063	0.9181	0.1350	0.2927
					-0.2306				
1142.	(0.00003)	RY*(5)	H	72	s(10.21%)p	8.80(89.79%)			
1143.	(0.00131)	RY*(1)	H	73	s(99.22%)p	0.01(0.78%)			
					-0.0034	0.9961	0.0050	-0.0290	-0.0362
					-0.0754				
1144.	(0.00028)	RY*(2)	H	73	s(45.54%)p	1.20(54.46%)			
					-0.0009	-0.0136	0.6747	0.5761	0.1594
					-0.4328				
1145.	(0.00026)	RY*(3)	H	73	s(46.18%)p	1.17(53.82%)			
					-0.0002	-0.0218	0.6792	-0.5211	-0.4806
					0.1888				
1146.	(0.00011)	RY*(4)	H	73	s(8.78%)p	10.39(91.22%)			
					-0.0021	0.0655	0.2889	-0.1202	0.7586
					0.5677				
1147.	(0.00004)	RY*(5)	H	73	s(0.34%)p	99.99(99.66%)			
1148.	(0.00032)	RY*(1)	H	74	s(99.63%)p	0.00(0.37%)			
					-0.0019	0.9981	0.0042	0.0394	0.0410
					-0.0214				
1149.	(0.00023)	RY*(2)	H	74	s(0.59%)p	99.99(99.41%)			
					-0.0006	0.0574	0.0507	-0.7912	-0.4061
					0.4509				
1150.	(0.00019)	RY*(3)	H	74	s(99.54%)p	0.00(0.46%)			
					-0.0009	-0.0075	0.9977	0.0547	0.0365
					0.0177				
1151.	(0.00012)	RY*(4)	H	74	s(0.18%)p	99.99(99.82%)			
					0.0003	0.0002	0.0420	-0.5009	0.0216
					-0.8642				
1152.	(0.00002)	RY*(5)	H	74	s(0.12%)p	99.99(99.88%)			
1153.	(0.00114)	RY*(1)	H	75	s(98.84%)p	0.01(1.16%)			
					0.0036	0.9942	-0.0061	-0.0378	0.0516
					-0.0865				
1154.	(0.00028)	RY*(2)	H	75	s(91.45%)p	0.09(8.55%)			
					-0.0008	0.0293	0.9559	0.1130	-0.2621
					0.0637				
1155.	(0.00024)	RY*(3)	H	75	s(0.03%)p	99.99(99.97%)			
					0.0015	0.0158	-0.0085	-0.8717	-0.3136
					0.3762				
1156.	(0.00014)	RY*(4)	H	75	s(9.20%)p	9.87(90.80%)			
					0.0000	-0.0803	0.2925	-0.4162	0.8106
					-0.2787				
1157.	(0.00004)	RY*(5)	H	75	s(0.53%)p	99.99(99.47%)			
1158.	(0.00129)	RY*(1)	H	76	s(98.63%)p	0.01(1.37%)			
					0.0036	0.9931	-0.0039	-0.0033	0.0438
					-0.1087				
1159.	(0.00032)	RY*(2)	H	76	s(68.04%)p	0.47(31.96%)			
					-0.0012	-0.0030	0.8249	0.1841	0.5144
					0.1450				
1160.	(0.00024)	RY*(3)	H	76	s(21.80%)p	3.59(78.20%)			
					0.0009	0.0579	0.4633	-0.5662	-0.6189
					0.2801				
1161.	(0.00013)	RY*(4)	H	76	s(10.88%)p	8.19(89.12%)			
					-0.0004	-0.0715	0.3220	0.2612	-0.3778
					-0.8247				
1162.	(0.00004)	RY*(5)	H	76	s(0.70%)p	99.99(99.30%)			
1163.	(0.00031)	RY*(1)	H	77	s(99.66%)p	0.00(0.34%)			
					-0.0021	0.9983	0.0051	0.0395	0.0257
					-0.0350				
1164.	(0.00022)	RY*(2)	H	77	s(0.32%)p	99.99(99.68%)			
					0.0001	0.0513	0.0234	-0.5970	-0.7668
					0.2289				
1165.	(0.00019)	RY*(3)	H	77	s(99.19%)p	0.01(0.81%)			
					-0.0012	-0.0061	0.9959	0.0758	-0.0156
					0.0454				
1166.	(0.00012)	RY*(4)	H	77	s(0.68%)p	99.99(99.32%)			
					-0.0001	-0.0122	0.0813	-0.5433	0.1812
					-0.8156				
1167.	(0.00002)	RY*(5)	H	77	s(0.21%)p	99.99(99.79%)			

1168.	(0.00125)	RY*(1)	H	78	s(99.21%)p 0.01(0.79%)
					-0.0033 0.9960 0.0052 -0.0757 0.0264
					-0.0378
1169.	(0.00026)	RY*(2)	H	78	s(89.99%)p 0.11(10.01%)
					-0.0005 -0.0269 0.9482 -0.2481 0.1894
					0.0517
1170.	(0.00026)	RY*(3)	H	78	s(0.03%)p99.99(99.97%)
					0.0000 0.0133 0.0124 0.5779 0.7702
					-0.2691
1171.	(0.00011)	RY*(4)	H	78	s(10.48%)p 8.55(89.52%)
					-0.0022 0.0642 0.3172 0.7240 -0.5950
					-0.1304
1172.	(0.00004)	RY*(5)	H	78	s(0.34%)p99.99(99.66%)
1173.	(0.00168)	RY*(1)	H	79	s(99.90%)p 0.00(0.10%)
					-0.0058 0.9995 0.0002 -0.0097 -0.0266
					-0.0154
1174.	(0.00027)	RY*(2)	H	79	s(30.00%)p 2.33(70.00%)
					-0.0057 0.0120 0.5475 0.3758 -0.1087
					0.7396
1175.	(0.00017)	RY*(3)	H	79	s(3.51%)p27.51(96.49%)
					-0.0013 0.0109 0.1870 0.7648 0.4009
					-0.4683
1176.	(0.00013)	RY*(4)	H	79	s(58.21%)p 0.72(41.79%)
					-0.0034 -0.0193 0.7627 -0.2930 -0.3398
					-0.4654
1177.	(0.00001)	RY*(5)	H	79	s(8.44%)p10.85(91.56%)
1178.	(0.00357)	RY*(1)	H	80	s(99.94%)p 0.00(0.06%)
					0.0068 0.9997 -0.0013 0.0041 0.0216
					-0.0102
1179.	(0.00027)	RY*(2)	H	80	s(84.48%)p 0.18(15.52%)
					-0.0074 -0.0032 0.9191 0.3599 0.0684
					-0.1449
1180.	(0.00017)	RY*(3)	H	80	s(6.35%)p14.76(93.65%)
					0.0028 0.0073 0.2518 -0.7524 -0.3984
					-0.4601
1181.	(0.00013)	RY*(4)	H	80	s(3.42%)p28.25(96.58%)
					0.0006 0.0219 0.1836 -0.0483 -0.6459
					0.7392
1182.	(0.00002)	RY*(5)	H	80	s(5.86%)p16.05(94.14%)
1183.	(0.00179)	RY*(1)	H	81	s(99.68%)p 0.00(0.32%)
					-0.0058 0.9984 -0.0006 -0.0562 -0.0053
					0.0022
1184.	(0.00029)	RY*(2)	H	81	s(31.82%)p 2.14(68.18%)
					-0.0055 0.0267 0.5634 0.4970 -0.0385
					0.6583
1185.	(0.00019)	RY*(3)	H	81	s(9.39%)p 9.65(90.61%)
					0.0001 0.0214 0.3057 0.2838 0.8004
					-0.4300
1186.	(0.00013)	RY*(4)	H	81	s(51.83%)p 0.93(48.17%)
					-0.0038 -0.0382 0.7189 -0.6802 -0.0890
					-0.1054
1187.	(0.00002)	RY*(5)	H	81	s(7.33%)p12.65(92.67%)
1188.	(0.00302)	RY*(1)	H	82	s(99.90%)p 0.00(0.10%)
					0.0064 0.9995 -0.0011 0.0233 0.0042
					-0.0200
1189.	(0.00024)	RY*(2)	H	82	s(82.32%)p 0.21(17.68%)
					-0.0059 -0.0074 0.9072 0.1263 0.3484
					-0.1987
1190.	(0.00018)	RY*(3)	H	82	s(0.79%)p99.99(99.21%)
					0.0027 0.0111 0.0882 -0.8489 -0.1969
					-0.4824
1191.	(0.00013)	RY*(4)	H	82	s(12.93%)p 6.73(87.07%)
					0.0004 0.0255 0.3587 -0.3303 -0.3607
					0.7946
1192.	(0.00002)	RY*(5)	H	82	s(4.10%)p23.38(95.90%)
1193.	(0.00174)	RY*(1)	H	83	s(99.82%)p 0.00(0.18%)
					-0.0057 0.9991 0.0000 0.0231 0.0234
					-0.0264
1194.	(0.00026)	RY*(2)	H	83	s(25.74%)p 2.88(74.26%)
					-0.0048 0.0106 0.5072 -0.2993 0.5299
					0.6101

1195.	(0.00018)	RY*(3)	H	83	s(2.50%)p39.02(97.50%)	-0.0005	0.0322	0.1548	-0.7895	-0.5931
						-0.0015				
1196.	(0.00012)	RY*(4)	H	83	s(64.71%)p 0.55(35.29%)	-0.0037	-0.0186	0.8042	0.1716	-0.0181
						-0.5684				
1197.	(0.00002)	RY*(5)	H	83	s(7.27%)p12.76(92.73%)					
1198.	(0.00176)	RY*(1)	H	84	s(99.97%)p 0.00(0.03%)	-0.0053	0.9998	0.0019	-0.0063	0.0132
						-0.0082				
1199.	(0.00023)	RY*(2)	H	84	s(66.89%)p 0.49(33.11%)	-0.0042	-0.0015	0.8179	0.1182	-0.2579
						-0.5006				
1200.	(0.00017)	RY*(3)	H	84	s(3.50%)p27.55(96.50%)	-0.0038	0.0072	0.1870	-0.6381	-0.5896
						0.4585				
1201.	(0.00013)	RY*(4)	H	84	s(25.88%)p 2.86(74.12%)	-0.0009	-0.0087	0.5086	-0.2312	0.7248
						0.4030				
1202.	(0.00002)	RY*(5)	H	84	s(3.80%)p25.31(96.20%)					
1203.	(0.00183)	RY*(1)	H	85	s(99.55%)p 0.00(0.45%)	-0.0059	0.9977	-0.0012	0.0548	0.0211
						-0.0318				
1204.	(0.00029)	RY*(2)	H	85	s(32.77%)p 2.05(67.23%)	-0.0049	0.0322	0.5715	-0.3274	0.3542
						0.6631				
1205.	(0.00018)	RY*(3)	H	85	s(4.70%)p20.27(95.30%)	0.0009	0.0374	0.2136	-0.1901	-0.9323
						0.2183				
1206.	(0.00012)	RY*(4)	H	85	s(55.23%)p 0.81(44.77%)	-0.0044	-0.0410	0.7420	0.5771	-0.0283
						-0.3375				
1207.	(0.00002)	RY*(5)	H	85	s(7.79%)p11.83(92.21%)					
1208.	(0.00160)	RY*(1)	H	86	s(99.75%)p 0.00(0.25%)	-0.0051	0.9987	-0.0007	0.0236	0.0435
						0.0061				
1209.	(0.00025)	RY*(2)	H	86	s(30.18%)p 2.31(69.82%)	-0.0048	0.0253	0.5488	0.2406	-0.6357
						-0.4859				
1210.	(0.00017)	RY*(3)	H	86	s(5.84%)p16.12(94.16%)	-0.0013	0.0314	0.2396	-0.6010	-0.4748
						0.5958				
1211.	(0.00012)	RY*(4)	H	86	s(59.66%)p 0.68(40.34%)	-0.0022	-0.0286	0.7719	0.2176	0.5070
						0.3146				
1212.	(0.00002)	RY*(5)	H	86	s(4.61%)p20.67(95.39%)					
1213.	(0.00064)	RY*(1)	H	87	s(91.51%)p 0.09(8.49%)	-0.0009	0.9566	-0.0058	0.0139	-0.0305
						0.2894				
1214.	(0.00019)	RY*(2)	H	87	s(17.32%)p 4.77(82.68%)	-0.0010	0.1027	0.4033	-0.7588	-0.3730
						-0.3344				
1215.	(0.00012)	RY*(3)	H	87	s(83.41%)p 0.20(16.59%)	-0.0012	-0.0305	0.9128	0.3132	0.2267
						0.1279				
1216.	(0.00007)	RY*(4)	H	87	s(7.42%)p12.47(92.58%)					
1217.	(0.00002)	RY*(5)	H	87	s(0.37%)p99.99(99.63%)					
1218.	(0.00071)	RY*(1)	H	88	s(95.32%)p 0.05(4.68%)	-0.0016	0.9760	-0.0241	-0.1651	0.0238
						0.1378				
1219.	(0.00024)	RY*(2)	H	88	s(58.04%)p 0.72(41.96%)	-0.0028	0.1094	0.7540	0.2900	-0.5430
						-0.2017				
1220.	(0.00012)	RY*(3)	H	88	s(24.37%)p 3.10(75.63%)	-0.0007	0.0408	0.4920	0.2048	0.8389
						-0.1027				
1221.	(0.00007)	RY*(4)	H	88	s(17.70%)p 4.65(82.30%)					
1222.	(0.00002)	RY*(5)	H	88	s(4.62%)p20.66(95.38%)					
1223.	(0.00090)	RY*(1)	H	89	s(98.67%)p 0.01(1.33%)	-0.0026	0.9933	-0.0049	-0.0244	-0.0309
						0.1085				

1224.	(0.00019)	RY*(2)	H	89	s(74.40%)p 0.34(25.60%) -0.0053 0.0520 0.8610 -0.0846 -0.1077 -0.4871
1225.	(0.00012)	RY*(3)	H	89	s(0.09%)p99.99(99.91%) 0.0002 -0.0017 0.0297 0.8177 -0.5737 0.0372
1226.	(0.00010)	RY*(4)	H	89	s(26.41%)p 2.79(73.59%) 0.0089 -0.0784 0.5078 0.0963 0.2173 0.8243
1227.	(0.00002)	RY*(5)	H	89	s(0.49%)p99.99(99.51%)
1228.	(0.00064)	RY*(1)	H	90	s(92.43%)p 0.08(7.57%) -0.0006 0.9614 -0.0088 0.2516 0.1095 0.0199
1229.	(0.00016)	RY*(2)	H	90	s(33.79%)p 1.96(66.21%) -0.0008 0.0073 0.5812 0.0341 -0.2372 0.7776
1230.	(0.00013)	RY*(3)	H	90	s(60.83%)p 0.64(39.17%) -0.0018 0.0879 0.7750 -0.3043 0.0884 -0.5397
1231.	(0.00006)	RY*(4)	H	90	s(11.79%)p 7.48(88.21%)
1232.	(0.00002)	RY*(5)	H	90	s(1.21%)p81.84(98.79%)
1233.	(0.00062)	RY*(1)	H	91	s(95.41%)p 0.05(4.59%) -0.0023 0.9766 -0.0203 0.1540 0.1478 0.0177
1234.	(0.00015)	RY*(2)	H	91	s(50.53%)p 0.98(49.47%) -0.0034 0.1168 0.7012 0.0188 -0.6697 -0.2142
1235.	(0.00015)	RY*(3)	H	91	s(7.30%)p12.69(92.70%) -0.0024 0.0859 0.2562 -0.8245 0.3673 -0.3351
1236.	(0.00004)	RY*(4)	H	91	s(45.83%)p 1.18(54.17%)
1237.	(0.00002)	RY*(5)	H	91	s(0.97%)p99.99(99.03%)
1238.	(0.00089)	RY*(1)	H	92	s(96.20%)p 0.04(3.80%) -0.0020 0.9808 -0.0047 0.0692 0.1794 -0.0315
1239.	(0.00014)	RY*(2)	H	92	s(2.94%)p33.01(97.06%) 0.0001 -0.0023 0.1715 -0.5622 0.3611 0.7240
1240.	(0.00013)	RY*(3)	H	92	s(88.54%)p 0.13(11.46%) -0.0018 0.0632 0.9388 0.0191 -0.3356 -0.0399
1241.	(0.00006)	RY*(4)	H	92	s(11.97%)p 7.35(88.03%)
1242.	(0.00002)	RY*(5)	H	92	s(0.39%)p99.99(99.61%)
1243.	(0.00063)	RY*(1)	H	93	s(91.63%)p 0.09(8.37%) -0.0003 0.9572 -0.0086 0.2856 -0.0328 0.0326
1244.	(0.00014)	RY*(2)	H	93	s(96.00%)p 0.04(4.00%) -0.0027 0.0627 0.9778 -0.1731 -0.0300 -0.0954
1245.	(0.00014)	RY*(3)	H	93	s(0.12%)p99.99(99.88%) -0.0013 0.0347 0.0026 0.0275 0.9528 -0.3004
1246.	(0.00006)	RY*(4)	H	93	s(10.34%)p 8.67(89.66%)
1247.	(0.00002)	RY*(5)	H	93	s(1.95%)p50.25(98.05%)
1248.	(0.00076)	RY*(1)	H	94	s(95.94%)p 0.04(4.06%) -0.0022 0.9794 -0.0143 0.1662 0.0378 -0.1073
1249.	(0.00018)	RY*(2)	H	94	s(64.52%)p 0.55(35.48%) -0.0011 0.0946 0.7976 -0.1989 0.2070 0.5219
1250.	(0.00015)	RY*(3)	H	94	s(16.60%)p 5.02(83.40%) -0.0007 0.0389 0.4056 -0.3590 -0.6787 -0.4945
1251.	(0.00006)	RY*(4)	H	94	s(22.89%)p 3.37(77.11%)
1252.	(0.00002)	RY*(5)	H	94	s(0.10%)p99.99(99.90%)
1253.	(0.00054)	RY*(1)	H	95	s(92.95%)p 0.08(7.05%) -0.0017 0.9640 -0.0138 0.2287 -0.0720 -0.1142
1254.	(0.00014)	RY*(2)	H	95	s(10.59%)p 8.44(89.41%) -0.0006 0.0474 0.3219 0.2063 -0.2004 0.9008

1255.	(0.00013)	RY*(3)	H	95	s(74.08%)p 0.35(25.92%)
					-0.0015 0.1075 0.8540 -0.3904 0.2860
					-0.1578
1256.	(0.00007)	RY*(4)	H	95	s(21.71%)p 3.61(78.29%)
1257.	(0.00001)	RY*(5)	H	95	s(0.71%)p99.99(99.29%)
1258.	(0.00077)	RY*(1)	H	96	s(95.89%)p 0.04(4.11%)
					-0.0006 0.9792 0.0039 -0.0262 -0.1883
					0.0705
1259.	(0.00018)	RY*(2)	H	96	s(47.67%)p 1.10(52.33%)
					-0.0020 -0.0189 0.6902 -0.7140 -0.0268
					-0.1130
1260.	(0.00013)	RY*(3)	H	96	s(46.22%)p 1.16(53.78%)
					-0.0004 -0.0519 0.6779 0.6564 -0.3178
					0.0770
1261.	(0.00010)	RY*(4)	H	96	s(9.42%)p 9.62(90.58%)
1262.	(0.00002)	RY*(5)	H	96	s(0.85%)p99.99(99.15%)
1263.	(0.00090)	RY*(1)	H	97	s(97.95%)p 0.02(2.05%)
					-0.0017 0.9897 0.0003 -0.0402 -0.1299
					-0.0452
1264.	(0.00025)	RY*(2)	H	97	s(93.72%)p 0.07(6.28%)
					-0.0021 0.0029 0.9681 -0.0092 -0.0579
					0.2436
1265.	(0.00012)	RY*(3)	H	97	s(5.67%)p16.62(94.33%)
					-0.0001 -0.0075 0.2381 -0.2547 0.3280
					-0.8779
1266.	(0.00009)	RY*(4)	H	97	s(2.05%)p47.83(97.95%)
1267.	(0.00002)	RY*(5)	H	97	s(0.65%)p99.99(99.35%)
1268.	(0.00071)	RY*(1)	H	98	s(95.86%)p 0.04(4.14%)
					-0.0024 0.9790 -0.0103 -0.0960 -0.1580
					-0.0851
1269.	(0.00020)	RY*(2)	H	98	s(64.17%)p 0.56(35.83%)
					-0.0021 0.0545 0.7992 -0.2255 0.1325
					0.5384
1270.	(0.00014)	RY*(3)	H	98	s(15.30%)p 5.54(84.70%)
					0.0003 0.1095 0.3755 0.7837 0.3544
					-0.3274
1271.	(0.00009)	RY*(4)	H	98	s(24.55%)p 3.07(75.45%)
1272.	(0.00002)	RY*(5)	H	98	s(0.17%)p99.99(99.83%)
1273.	(0.00062)	RY*(1)	H	99	s(91.51%)p 0.09(8.49%)
					-0.0004 0.9566 -0.0093 -0.0206 0.2420
					-0.1610
1274.	(0.00014)	RY*(2)	H	99	s(95.87%)p 0.04(4.13%)
					-0.0026 0.0661 0.9769 -0.0028 -0.1107
					0.1703
1275.	(0.00014)	RY*(3)	H	99	s(0.20%)p99.99(99.80%)
					-0.0012 0.0439 -0.0075 0.9928 -0.1080
					-0.0278
1276.	(0.00006)	RY*(4)	H	99	s(10.57%)p 8.46(89.43%)
1277.	(0.00002)	RY*(5)	H	99	s(1.89%)p51.93(98.11%)
1278.	(0.00080)	RY*(1)	H	100	s(95.86%)p 0.04(4.14%)
					-0.0021 0.9790 -0.0112 0.0950 0.1799
					0.0038
1279.	(0.00016)	RY*(2)	H	100	s(82.73%)p 0.21(17.27%)
					-0.0009 0.0947 0.9046 -0.1583 -0.3736
					-0.0900
1280.	(0.00015)	RY*(3)	H	100	s(0.89%)p99.99(99.11%)
					-0.0006 0.0024 0.0943 -0.4594 0.2174
					0.8560
1281.	(0.00006)	RY*(4)	H	100	s(20.39%)p 3.91(79.61%)
1282.	(0.00002)	RY*(5)	H	100	s(0.18%)p99.99(99.82%)
1283.	(0.00056)	RY*(1)	H	101	s(93.59%)p 0.07(6.41%)
					-0.0016 0.9673 -0.0128 -0.0117 0.2526
					-0.0121
1284.	(0.00013)	RY*(2)	H	101	s(86.27%)p 0.16(13.73%)
					-0.0018 0.1054 0.9228 0.0874 -0.3555
					-0.0577
1285.	(0.00014)	RY*(3)	H	101	s(0.02%)p99.99(99.98%)
					0.0000 0.0118 0.0061 0.5535 0.0204
					0.8325
1286.	(0.00007)	RY*(4)	H	101	s(19.46%)p 4.14(80.54%)
1287.	(0.00001)	RY*(5)	H	101	s(0.70%)p99.99(99.30%)

1288.	(0.00060)	RY*(1)	H 102	s(92.64%)p 0.08(7.36%) -0.0006 0.9624 0.0099 -0.2689 0.0145 0.0336
1289.	(0.00018)	RY*(2)	H 102	s(53.59%)p 0.87(46.41%) -0.0014 -0.0447 0.7307 -0.1109 -0.5346 0.4074
1290.	(0.00013)	RY*(3)	H 102	s(34.11%)p 1.93(65.89%) 0.0013 -0.1161 0.5724 -0.4029 0.6191 -0.3366
1291.	(0.00010)	RY*(4)	H 102	s(19.32%)p 4.18(80.68%) -0.0035 0.2407 0.3678 0.8651 0.1810 -0.1602
1292.	(0.00002)	RY*(5)	H 102	s(0.38%)p99.99(99.62%)
1293.	(0.00071)	RY*(1)	H 103	s(96.41%)p 0.04(3.59%) -0.0012 0.9819 -0.0077 -0.1569 0.0352 0.1001
1294.	(0.00022)	RY*(2)	H 103	s(91.62%)p 0.09(8.38%) -0.0029 0.0392 0.9564 0.0089 -0.1612 -0.2402
1295.	(0.00012)	RY*(3)	H 103	s(2.45%)p39.82(97.55%) -0.0020 0.0528 0.1473 0.7316 -0.0575 0.6610
1296.	(0.00008)	RY*(4)	H 103	s(8.51%)p10.76(91.49%)
1297.	(0.00003)	RY*(5)	H 103	s(1.05%)p94.22(98.95%)
1298.	(0.00076)	RY*(1)	H 104	s(96.23%)p 0.04(3.77%) -0.0023 0.9810 -0.0062 -0.1101 -0.0145 0.1592
1299.	(0.00022)	RY*(2)	H 104	s(69.92%)p 0.43(30.08%) -0.0023 0.0366 0.8354 -0.1350 -0.4209 -0.3247
1300.	(0.00014)	RY*(3)	H 104	s(11.87%)p 7.42(88.13%) 0.0004 0.1227 0.3220 0.5663 0.6908 -0.2889
1301.	(0.00011)	RY*(4)	H 104	s(21.82%)p 3.58(78.18%) 0.0011 -0.1453 0.4440 -0.2232 0.3317 0.7887
1302.	(0.00002)	RY*(5)	H 104	s(0.21%)p99.99(99.79%)
1303.	(0.00059)	RY*(1)	H 105	s(91.25%)p 0.10(8.75%) -0.0003 0.9552 -0.0087 -0.0226 0.1044 -0.2758
1304.	(0.00014)	RY*(2)	H 105	s(96.45%)p 0.04(3.55%) -0.0029 0.0578 0.9804 0.0665 -0.1360 0.1122
1305.	(0.00014)	RY*(3)	H 105	s(0.15%)p99.99(99.85%) -0.0016 0.0381 -0.0031 0.7391 0.6021 0.2995
1306.	(0.00006)	RY*(4)	H 105	s(10.10%)p 8.90(89.90%)
1307.	(0.00003)	RY*(5)	H 105	s(2.09%)p46.82(97.91%)
1308.	(0.00053)	RY*(1)	H 106	s(91.89%)p 0.09(8.11%) -0.0015 0.9585 -0.0116 0.0981 -0.0296 -0.2658
1309.	(0.00014)	RY*(2)	H 106	s(19.04%)p 4.25(80.96%) -0.0007 0.0488 0.4336 -0.8126 0.3416 -0.1806
1310.	(0.00013)	RY*(3)	H 106	s(74.09%)p 0.35(25.91%) -0.0017 0.0704 0.8578 0.3602 -0.0539 0.3556
1311.	(0.00007)	RY*(4)	H 106	s(14.05%)p 6.12(85.95%)
1312.	(0.00002)	RY*(5)	H 106	s(0.99%)p99.99(99.01%)
1313.	(0.00074)	RY*(1)	H 107	s(95.58%)p 0.05(4.42%) -0.0020 0.9775 -0.0197 0.1393 0.0514 -0.1487
1314.	(0.00020)	RY*(2)	H 107	s(53.99%)p 0.85(46.01%) -0.0014 0.1013 0.7278 -0.4062 0.4268 0.3361
1315.	(0.00014)	RY*(3)	H 107	s(23.14%)p 3.32(76.86%) -0.0010 0.0644 0.4767 -0.0077 -0.8752 0.0504
1316.	(0.00006)	RY*(4)	H 107	s(26.48%)p 2.78(73.52%)
1317.	(0.00002)	RY*(5)	H 107	s(0.85%)p99.99(99.15%)
1318.	(0.00076)	RY*(1)	H 108	s(95.72%)p 0.04(4.28%)

					-0.0007	0.9784	0.0024	-0.1621	-0.1193
					-0.0477				
1319.	(0.00018)	RY*(2)	H 108		s(44.01%)	p 1.27(55.99%)			
					-0.0019	-0.0120	0.6633	0.0190	-0.3708
					0.6496				
1320.	(0.00013)	RY*(3)	H 108		s(51.47%)	p 0.94(48.53%)			
					-0.0010	-0.0439	0.7161	-0.1133	0.0808
					-0.6826				
1321.	(0.00011)	RY*(4)	H 108		s(8.02%)	p11.48(91.98%)			
					-0.0004	0.1984	0.2020	0.6359	0.6961
					0.1761				
1322.	(0.00002)	RY*(5)	H 108		s(0.82%)	p99.99(99.18%)			
1323.	(0.00088)	RY*(1)	H 109		s(95.98%)	p 0.04(4.02%)			
					-0.0022	0.9797	-0.0014	-0.0197	-0.1961
					0.0369				
1324.	(0.00020)	RY*(2)	H 109		s(71.72%)	p 0.39(28.28%)			
					-0.0023	-0.0033	0.8469	-0.4127	0.0807
					0.3255				
1325.	(0.00014)	RY*(3)	H 109		s(22.82%)	p 3.38(77.18%)			
					0.0013	0.1024	0.4666	0.5756	0.3432
					-0.5681				
1326.	(0.00009)	RY*(4)	H 109		s(9.37%)	p 9.67(90.63%)			
1327.	(0.00002)	RY*(5)	H 109		s(0.16%)	p99.99(99.84%)			
1328.	(0.00066)	RY*(1)	H 110		s(96.01%)	p 0.04(3.99%)			
					-0.0016	0.9798	-0.0027	-0.0626	-0.1853
					-0.0406				
1329.	(0.00024)	RY*(2)	H 110		s(85.84%)	p 0.16(14.16%)			
					-0.0026	0.0079	0.9265	-0.3480	0.1419
					0.0184				
1330.	(0.00014)	RY*(3)	H 110		s(11.98%)	p 7.34(88.02%)			
					-0.0010	0.0417	0.3437	0.8722	-0.1479
					0.3124				
1331.	(0.00007)	RY*(4)	H 110		s(5.10%)	p18.62(94.90%)			
1332.	(0.00002)	RY*(5)	H 110		s(1.11%)	p89.20(98.89%)			
1333.	(0.00075)	RY*(1)	H 111		s(94.88%)	p 0.05(5.12%)			
					-0.0007	0.9741	-0.0009	0.1363	0.0626
					-0.1695				
1334.	(0.00017)	RY*(2)	H 111		s(4.59%)	p20.77(95.41%)			
					-0.0018	0.0344	0.2116	0.0064	0.8333
					0.5096				
1335.	(0.00014)	RY*(3)	H 111		s(94.14%)	p 0.06(5.86%)			
					-0.0025	0.0006	0.9703	-0.1120	-0.1543
					-0.1491				
1336.	(0.00009)	RY*(4)	H 111		s(4.78%)	p19.92(95.22%)			
1337.	(0.00002)	RY*(5)	H 111		s(1.65%)	p59.54(98.35%)			
1338.	(0.00085)	RY*(1)	H 112		s(96.23%)	p 0.04(3.77%)			
					-0.0023	0.9809	-0.0086	-0.0001	0.1468
					-0.1272				
1339.	(0.00021)	RY*(2)	H 112		s(52.23%)	p 0.91(47.77%)			
					-0.0013	0.0507	0.7209	0.5942	0.0097
					0.3529				
1340.	(0.00015)	RY*(3)	H 112		s(37.21%)	p 1.69(62.79%)			
					-0.0004	0.0514	0.6079	-0.6556	-0.4245
					-0.1337				
1341.	(0.00008)	RY*(4)	H 112		s(14.22%)	p 6.03(85.78%)			
1342.	(0.00002)	RY*(5)	H 112		s(0.15%)	p99.99(99.85%)			
1343.	(0.00047)	RY*(1)	H 113		s(93.67%)	p 0.07(6.33%)			
					-0.0017	0.9677	-0.0170	0.0771	0.1067
					-0.2144				
1344.	(0.00015)	RY*(2)	H 113		s(9.50%)	p 9.53(90.50%)			
					-0.0013	-0.0191	0.3076	0.8114	-0.4925
					-0.0641				
1345.	(0.00011)	RY*(3)	H 113		s(42.66%)	p 1.34(57.34%)			
					-0.0028	0.1975	0.6226	-0.2278	-0.0875
					0.7168				
1346.	(0.00005)	RY*(4)	H 113		s(52.91%)	p 0.89(47.09%)			
1347.	(0.00002)	RY*(5)	H 113		s(1.29%)	p76.33(98.71%)			
1348.	(0.00064)	RY*(1)	H 114		s(91.79%)	p 0.09(8.21%)			
					-0.0004	0.9580	-0.0083	-0.0521	-0.2643
					-0.0976				
1349.	(0.00014)	RY*(2)	H 114		s(95.77%)	p 0.04(4.23%)			

					-0.0030	0.0607	0.9767	-0.0311	0.2024
					-0.0188				
1350.	(0.00014)	RY*(3)	H 114		s(0.20%)p99.99(99.80%)				
					-0.0015	0.0429	0.0117	-0.4989	-0.0655
					0.8630				
1351.	(0.00006)	RY*(4)	H 114		s(9.89%)p 9.11(90.11%)				
1352.	(0.00002)	RY*(5)	H 114		s(2.39%)p40.79(97.61%)				
1353.	(0.00055)	RY*(1)	H 115		s(93.07%)p 0.07(6.93%)				
					-0.0016	0.9646	-0.0152	-0.1695	-0.1460
					-0.1390				
1354.	(0.00013)	RY*(2)	H 115		s(81.62%)p 0.23(18.38%)				
					-0.0015	0.1248	0.8948	0.1645	0.2423
					0.3130				
1355.	(0.00014)	RY*(3)	H 115		s(0.64%)p99.99(99.36%)				
					-0.0001	0.0240	0.0766	0.7880	-0.5785
					-0.1948				
1356.	(0.00007)	RY*(4)	H 115		s(24.01%)p 3.16(75.99%)				
1357.	(0.00002)	RY*(5)	H 115		s(0.70%)p99.99(99.30%)				
1358.	(0.00078)	RY*(1)	H 116		s(96.09%)p 0.04(3.91%)				
					-0.0022	0.9802	-0.0135	-0.1598	-0.1151
					-0.0184				
1359.	(0.00018)	RY*(2)	H 116		s(65.12%)p 0.54(34.88%)				
					-0.0011	0.0940	0.8015	0.4968	-0.0341
					0.3177				
1360.	(0.00015)	RY*(3)	H 116		s(15.42%)p 5.49(84.58%)				
					-0.0007	0.0374	0.3909	-0.1784	0.6246
					-0.6511				
1361.	(0.00006)	RY*(4)	H 116		s(23.23%)p 3.30(76.77%)				
1362.	(0.00002)	RY*(5)	H 116		s(0.19%)p99.99(99.81%)				
1363.	(0.00063)	RY*(1)	H 117		s(92.01%)p 0.09(7.99%)				
					-0.0005	0.9592	-0.0097	-0.0940	-0.2634
					0.0413				
1364.	(0.00016)	RY*(2)	H 117		s(40.16%)p 1.49(59.84%)				
					-0.0008	0.0096	0.6336	0.7263	-0.2580
					-0.0658				
1365.	(0.00013)	RY*(3)	H 117		s(54.46%)p 0.84(45.54%)				
					-0.0019	0.0942	0.7319	-0.4604	0.4897
					0.0598				
1366.	(0.00006)	RY*(4)	H 117		s(12.36%)p 7.09(87.64%)				
1367.	(0.00002)	RY*(5)	H 117		s(1.05%)p94.57(98.95%)				
1368.	(0.00088)	RY*(1)	H 118		s(95.87%)p 0.04(4.13%)				
					-0.0019	0.9791	-0.0047	-0.1141	-0.0823
					0.1467				
1369.	(0.00014)	RY*(2)	H 118		s(6.40%)p14.63(93.60%)				
					0.0000	0.0084	0.2528	0.7356	0.1528
					0.6095				
1370.	(0.00013)	RY*(3)	H 118		s(86.45%)p 0.16(13.55%)				
					-0.0018	0.0593	0.9279	-0.0229	0.0321
					-0.3660				
1371.	(0.00006)	RY*(4)	H 118		s(10.84%)p 8.23(89.16%)				
1372.	(0.00002)	RY*(5)	H 118		s(0.49%)p99.99(99.51%)				
1373.	(0.00062)	RY*(1)	H 119		s(95.44%)p 0.05(4.56%)				
					-0.0021	0.9768	-0.0175	-0.0735	-0.1741
					0.0993				
1374.	(0.00015)	RY*(2)	H 119		s(49.50%)p 1.02(50.50%)				
					-0.0038	0.1316	0.6911	-0.0904	0.7049
					-0.0040				
1375.	(0.00015)	RY*(3)	H 119		s(15.28%)p 5.54(84.72%)				
					-0.0008	0.0287	0.3899	0.0703	-0.3833
					-0.8338				
1376.	(0.00005)	RY*(4)	H 119		s(38.94%)p 1.57(61.06%)				
1377.	(0.00002)	RY*(5)	H 119		s(0.88%)p99.99(99.12%)				
1378.	(0.00056)	RY*(1)	H 120		s(92.85%)p 0.08(7.15%)				
					-0.0007	0.9636	-0.0026	0.2373	-0.1194
					0.0308				
1379.	(0.00017)	RY*(2)	H 120		s(40.40%)p 1.47(59.60%)				
					-0.0026	0.0395	0.6344	0.2283	0.7266
					-0.1261				
1380.	(0.00013)	RY*(3)	H 120		s(59.66%)p 0.68(40.34%)				
					0.0010	-0.0202	0.7721	-0.2192	-0.5813
					0.1319				

1381.	(0.00008)	RY*(4)	H 120	s(6.94%)p13.41(93.06%)
1382.	(0.00002)	RY*(5)	H 120	s(0.19%)p99.99(99.81%)
1383.	(0.00083)	RY*(1)	H 121	s(95.04%)p 0.05(4.96%) -0.0012 0.9749 -0.0023 0.2019 -0.0925 0.0172
1384.	(0.00020)	RY*(2)	H 121	s(94.64%)p 0.06(5.36%) -0.0030 0.0234 0.9725 -0.0096 0.2165 0.0818
1385.	(0.00013)	RY*(3)	H 121	s(4.71%)p20.25(95.29%) 0.0014 -0.0767 0.2029 0.1534 -0.6164 -0.7413
1386.	(0.00006)	RY*(4)	H 121	s(4.38%)p21.85(95.62%)
1387.	(0.00002)	RY*(5)	H 121	s(1.28%)p77.08(98.72%)
1388.	(0.00073)	RY*(1)	H 122	s(96.06%)p 0.04(3.94%) -0.0015 0.9800 -0.0140 0.1533 0.0794 0.0978
1389.	(0.00025)	RY*(2)	H 122	s(67.30%)p 0.49(32.70%) -0.0030 0.0548 0.8185 0.0880 -0.0060 -0.5650
1390.	(0.00013)	RY*(3)	H 122	s(12.82%)p 6.80(87.18%) -0.0006 0.1157 0.3389 -0.7603 -0.3786 0.3878
1391.	(0.00009)	RY*(4)	H 122	s(20.72%)p 3.83(79.28%)
1392.	(0.00002)	RY*(5)	H 122	s(3.14%)p30.87(96.86%)
1393.	(0.00070)	RY*(1)	H 123	s(94.88%)p 0.05(5.12%) -0.0007 0.9740 -0.0061 0.0542 0.1679 0.1418
1394.	(0.00020)	RY*(2)	H 123	s(28.86%)p 2.46(71.14%) -0.0014 0.0564 0.5343 0.5548 0.0481 -0.6334
1395.	(0.00012)	RY*(3)	H 123	s(69.75%)p 0.43(30.25%) -0.0007 0.0037 0.8351 -0.3809 -0.1710 0.3581
1396.	(0.00007)	RY*(4)	H 123	s(6.38%)p14.66(93.62%)
1397.	(0.00003)	RY*(5)	H 123	s(0.17%)p99.99(99.83%)
1398.	(0.00073)	RY*(1)	H 124	s(95.65%)p 0.05(4.35%) -0.0017 0.9778 -0.0183 0.1844 0.0750 0.0625
1399.	(0.00024)	RY*(2)	H 124	s(62.30%)p 0.61(37.70%) -0.0022 0.0808 0.7852 -0.3389 0.3100 -0.4075
1400.	(0.00012)	RY*(3)	H 124	s(19.04%)p 4.25(80.96%) -0.0011 0.0767 0.4295 -0.2182 -0.7419 0.4600
1401.	(0.00008)	RY*(4)	H 124	s(18.24%)p 4.48(81.76%)
1402.	(0.00002)	RY*(5)	H 124	s(4.81%)p19.79(95.19%)
1403.	(0.00056)	RY*(1)	H 125	s(93.15%)p 0.07(6.85%) -0.0015 0.9652 -0.0026 0.0731 0.1790 0.1763
1404.	(0.00017)	RY*(2)	H 125	s(30.00%)p 2.33(70.00%) -0.0015 0.0684 0.5434 0.6225 -0.5557 -0.0601
1405.	(0.00014)	RY*(3)	H 125	s(69.77%)p 0.43(30.23%) -0.0014 -0.0342 0.8346 -0.3715 0.4017 -0.0543
1406.	(0.00007)	RY*(4)	H 125	s(6.31%)p14.84(93.69%)
1407.	(0.00002)	RY*(5)	H 125	s(0.80%)p99.99(99.20%)
1408.	(0.00062)	RY*(1)	H 126	s(91.71%)p 0.09(8.29%) -0.0004 0.9576 -0.0104 -0.2351 -0.0549 0.1568
1409.	(0.00016)	RY*(2)	H 126	s(39.90%)p 1.51(60.10%) -0.0007 0.0148 0.6315 0.1376 0.6568 0.3882
1410.	(0.00012)	RY*(3)	H 126	s(54.50%)p 0.83(45.50%) -0.0019 0.0945 0.7322 0.1691 -0.4797 -0.4430
1411.	(0.00006)	RY*(4)	H 126	s(12.96%)p 6.71(87.04%)
1412.	(0.00002)	RY*(5)	H 126	s(0.96%)p99.99(99.04%)
1413.	(0.00062)	RY*(1)	H 127	s(95.91%)p 0.04(4.09%) -0.0024 0.9791 -0.0197 -0.1305 -0.0877 0.1271

1414.	(0.00017)	RY*(2)	H 127	s(58.58%)p 0.71(41.42%) -0.0045 0.1288 0.7545 0.2689 0.0212 -0.5843
1415.	(0.00015)	RY*(3)	H 127	s(3.22%)p30.07(96.78%) 0.0006 -0.0267 0.1774 -0.7474 0.6321 -0.0979
1416.	(0.00005)	RY*(4)	H 127	s(41.14%)p 1.43(58.86%)
1417.	(0.00002)	RY*(5)	H 127	s(1.19%)p82.93(98.81%)
1418.	(0.00088)	RY*(1)	H 128	s(95.49%)p 0.05(4.51%) -0.0019 0.9772 -0.0055 -0.0592 -0.1700 0.1126
1419.	(0.00015)	RY*(2)	H 128	s(5.84%)p16.14(94.16%) -0.0001 0.0062 0.2415 0.7301 0.1803 0.6133
1420.	(0.00013)	RY*(3)	H 128	s(86.00%)p 0.16(14.00%) -0.0020 0.0671 0.9249 -0.1283 0.2176 -0.2761
1421.	(0.00006)	RY*(4)	H 128	s(12.01%)p 7.32(87.99%)
1422.	(0.00002)	RY*(5)	H 128	s(0.71%)p99.99(99.29%)
1423.	(0.00064)	RY*(1)	H 129	s(91.66%)p 0.09(8.34%) -0.0004 0.9573 -0.0088 -0.2729 0.0629 0.0710
1424.	(0.00014)	RY*(2)	H 129	s(95.22%)p 0.05(4.78%) -0.0025 0.0636 0.9737 0.1535 0.0099 -0.1553
1425.	(0.00015)	RY*(3)	H 129	s(0.59%)p99.99(99.41%) -0.0014 0.0466 0.0609 0.0543 -0.9132 0.3965
1426.	(0.00006)	RY*(4)	H 129	s(10.82%)p 8.24(89.18%)
1427.	(0.00002)	RY*(5)	H 129	s(1.76%)p55.94(98.24%)
1428.	(0.00079)	RY*(1)	H 130	s(96.11%)p 0.04(3.89%) -0.0022 0.9803 -0.0121 -0.1737 -0.0915 -0.0182
1429.	(0.00017)	RY*(2)	H 130	s(73.07%)p 0.37(26.93%) -0.0014 0.0925 0.8498 0.3259 0.1899 0.3564
1430.	(0.00015)	RY*(3)	H 130	s(10.00%)p 9.00(90.00%) -0.0006 0.0186 0.3156 0.0981 0.1567 -0.9305
1431.	(0.00006)	RY*(4)	H 130	s(20.56%)p 3.86(79.44%)
1432.	(0.00002)	RY*(5)	H 130	s(0.31%)p99.99(99.69%)
1433.	(0.00059)	RY*(1)	H 131	s(95.06%)p 0.05(4.94%) -0.0017 0.9749 -0.0136 -0.2171 -0.0082 -0.0466
1434.	(0.00013)	RY*(2)	H 131	s(72.41%)p 0.38(27.59%) -0.0016 0.1270 0.8414 0.4642 0.0152 0.2454
1435.	(0.00014)	RY*(3)	H 131	s(0.46%)p99.99(99.54%) -0.0004 0.0105 0.0669 0.1911 -0.8129 -0.5460
1436.	(0.00007)	RY*(4)	H 131	s(31.52%)p 2.17(68.48%)
1437.	(0.00002)	RY*(5)	H 131	s(0.59%)p99.99(99.41%)
1438.	(0.00076)	RY*(1)	H 132	s(95.71%)p 0.04(4.29%) -0.0006 0.9783 0.0039 0.0088 0.1903 -0.0812
1439.	(0.00018)	RY*(2)	H 132	s(52.73%)p 0.90(47.27%) -0.0022 -0.0148 0.7260 0.6235 -0.0856 -0.2767
1440.	(0.00014)	RY*(3)	H 132	s(43.30%)p 1.31(56.70%) -0.0001 -0.0442 0.6565 -0.6977 0.2750 0.0677
1441.	(0.00009)	RY*(4)	H 132	s(7.55%)p12.25(92.45%)
1442.	(0.00002)	RY*(5)	H 132	s(0.75%)p99.99(99.25%)
1443.	(0.00092)	RY*(1)	H 133	s(96.52%)p 0.04(3.48%) -0.0019 0.9824 -0.0002 0.0221 0.1030 -0.1540
1444.	(0.00023)	RY*(2)	H 133	s(93.67%)p 0.07(6.33%) -0.0015 0.0041 0.9678 0.0292 0.1933 0.1584
1445.	(0.00013)	RY*(3)	H 133	s(5.98%)p15.71(94.02%) 0.0005 0.0113 0.2444 0.0648 -0.8396

-0.4807

1446. (0.00008) RY*(4) H 133 s(3.56%)p27.13(96.44%)
1447. (0.00002) RY*(5) H 133 s(0.31%)p99.99(99.69%)
1448. (0.00075) RY*(1) H 134 s(96.00%)p 0.04(4.00%)
-0.0023 0.9797 -0.0103 0.0551 0.0567
-0.1838

1449. (0.00021) RY*(2) H 134 s(69.49%)p 0.44(30.51%)
-0.0021 0.0575 0.8316 0.2961 0.2132
0.4147

1450. (0.00014) RY*(3) H 134 s(14.94%)p 5.69(85.06%)
0.0003 0.0829 0.3776 -0.7947 -0.4665
0.0387

1451. (0.00009) RY*(4) H 134 s(19.45%)p 4.14(80.55%)
1452. (0.00002) RY*(5) H 134 s(0.17%)p99.99(99.83%)
1453. (0.04220) BD*(1) C 1 - O 2
(64.58%) 0.8036* C 1 s(34.37%)p 1.91(65.56%)d 0.00(0.06%)
-0.0003 0.5810 0.0787 0.0026 0.0008
-0.1509 0.0180 -0.0037 0.2199 -0.0122
0.0042 -0.7618 0.0561 -0.0225 -0.0018
0.0052 -0.0118 -0.0016 0.0209
(35.42%) -0.5952* O 2 s(39.92%)p 1.50(59.94%)d 0.00(0.14%)
0.0000 0.6315 -0.0188 0.0010 0.0004
0.1663 -0.0065 0.0004 -0.1629 0.0093
-0.0006 0.7377 -0.0308 0.0019 -0.0037
0.0129 -0.0137 -0.0010 0.0316

1454. (0.48062) BD*(2) C 1 - O 2
(73.22%) 0.8557* C 1 s(0.01%)p99.99(99.72%)d18.73(0.27%)
0.0002 -0.0112 -0.0035 -0.0020 -0.0003
-0.2669 0.0057 0.0009 0.9119 -0.0046
0.0006 0.3072 -0.0019 0.0018 -0.0103
0.0104 -0.0412 -0.0105 -0.0253
(26.78%) -0.5175* O 2 s(0.02%)p99.99(99.88%)d 5.56(0.10%)
0.0000 -0.0134 -0.0014 -0.0001 0.0000
-0.2373 0.0040 0.0009 0.9322 -0.0117
-0.0030 0.2709 -0.0019 -0.0007 0.0081
-0.0058 0.0259 0.0058 0.0143

1455. (0.11075) BD*(1) C 1 - B 14
(39.95%) 0.6321* C 1 s(25.83%)p 2.87(74.14%)d 0.00(0.03%)
0.0001 -0.5076 0.0246 0.0070 0.0004
-0.8031 -0.0080 0.0050 -0.1500 0.0005
-0.0048 -0.2708 -0.0196 0.0097 -0.0031
-0.0135 0.0001 -0.0090 -0.0021
(60.05%) -0.7749* B 14 s(18.02%)p 4.55(81.92%)d 0.00(0.06%)
0.0048 -0.4244 -0.0071 0.0015 0.0003
0.4109 -0.0053 0.0033 -0.0158 -0.0057
-0.0025 0.8062 0.0060 0.0081 -0.0063
-0.0176 0.0066 -0.0089 -0.0131

1456. (0.06815) BD*(1) C 1 - B 15
(39.01%) 0.6246* C 1 s(40.15%)p 1.49(59.83%)d 0.00(0.02%)
-0.0001 0.6328 -0.0332 0.0034 -0.0001
-0.5101 -0.0005 -0.0070 -0.3077 -0.0062
-0.0019 0.4931 0.0133 -0.0081 0.0030
-0.0054 -0.0082 -0.0022 0.0088
(60.99%) -0.7810* B 15 s(26.26%)p 2.81(73.68%)d 0.00(0.06%)
-0.0013 0.5124 -0.0006 0.0061 0.0024
-0.1733 -0.0148 -0.0020 0.2436 -0.0080
0.0044 -0.8041 0.0048 -0.0218 0.0056
0.0010 -0.0151 -0.0019 0.0182

1457. (0.03587) BD*(1) C 3 - C 4
(50.75%) 0.7124* C 3 s(33.55%)p 1.98(66.40%)d 0.00(0.05%)
0.0000 0.5792 0.0032 -0.0011 0.0000
0.6350 0.0004 0.0019 -0.3736 0.0069
-0.0003 0.3477 0.0118 -0.0009 -0.0140
0.0145 -0.0072 0.0091 -0.0030
(49.25%) -0.7018* C 4 s(36.74%)p 1.72(63.22%)d 0.00(0.05%)
-0.0002 0.6061 -0.0011 -0.0031 0.0001
-0.6195 -0.0040 0.0023 0.3295 0.0077
0.0040 -0.3739 0.0032 0.0010 -0.0129
0.0138 -0.0072 0.0075 -0.0019

1458. (0.02327) BD*(1) C 3 - C 8
(49.58%) 0.7041* C 3 s(34.07%)p 1.93(65.88%)d 0.00(0.05%)

					0.0001	-0.5836	-0.0091	-0.0048	-0.0002
					0.4788	-0.0077	0.0076	-0.4929	0.0029
					-0.0080	-0.4318	-0.0076	0.0010	0.0138
					0.0104	-0.0129	0.0009	-0.0007	
	(50.42%)	-0.7101* C	8 s(35.90%)p 1.78(64.04%)d 0.00(0.06%)		-0.0001	-0.5992	0.0007	0.0043	0.0002
					-0.4507	0.0025	0.0059	0.4802	0.0069
					-0.0071	0.4539	0.0196	-0.0025	0.0166
					0.0120	-0.0142	-0.0003	0.0001	
1459.	(0.33135)	BD*(2) C	3 - C	8					
	(52.21%)	0.7226* C	3 s(0.01%)p 1.00(99.96%)d 0.00(0.04%)		-0.0002	-0.0061	-0.0052	0.0017	0.0003
					0.5871	-0.0051	-0.0041	0.7766	-0.0049
					0.0038	-0.2274	0.0013	0.0034	0.0020
					0.0102	0.0115	-0.0080	-0.0077	
	(47.79%)	-0.6913* C	8 s(0.00%)p 1.00(99.97%)d 0.00(0.03%)		0.0000	-0.0005	0.0012	-0.0001	0.0005
					0.5811	-0.0025	0.0077	0.7759	-0.0046
					0.0117	-0.2444	0.0029	-0.0050	0.0039
					-0.0044	0.0011	0.0165	0.0008	
1460.	(0.03220)	BD*(1) C	3 - C	53					
	(49.42%)	0.7030* C	3 s(32.34%)p 2.09(67.63%)d 0.00(0.03%)		0.0001	-0.5687	0.0066	0.0047	0.0002
					0.1492	0.0019	0.0020	0.1170	-0.0003
					-0.0019	0.8000	0.0171	-0.0075	0.0010
					-0.0041	-0.0037	-0.0004	-0.0167	
	(50.58%)	-0.7112* C	53 s(26.35%)p 2.79(73.59%)d 0.00(0.06%)		-0.0002	-0.5134	0.0001	-0.0003	-0.0007
					-0.1312	0.0019	0.0018	-0.1039	0.0049
					-0.0005	-0.8413	0.0005	-0.0012	-0.0017
					-0.0071	-0.0055	-0.0001	-0.0222	
1461.	(0.03690)	BD*(1) C	4 - C	5					
	(49.60%)	0.7043* C	4 s(36.67%)p 1.73(63.29%)d 0.00(0.05%)		0.0002	-0.6055	0.0021	0.0024	-0.0002
					-0.1961	0.0018	0.0000	-0.1188	-0.0073
					-0.0029	-0.7617	-0.0054	-0.0009	-0.0001
					-0.0098	-0.0064	-0.0016	-0.0184	
	(50.40%)	-0.7100* C	5 s(34.19%)p 1.92(65.76%)d 0.00(0.05%)		0.0000	-0.5847	-0.0024	0.0005	0.0000
					0.1664	0.0103	-0.0024	0.1615	-0.0086
					0.0002	0.7770	0.0013	0.0000	0.0001
					-0.0093	-0.0063	-0.0014	-0.0199	
1462.	(0.37359)	BD*(2) C	4 - C	5					
	(46.53%)	0.6821* C	4 s(0.01%)p 1.00(99.97%)d 0.00(0.02%)		0.0002	0.0074	0.0051	-0.0012	-0.0002
					-0.5662	0.0040	0.0069	-0.7814	0.0019
					0.0052	0.2617	-0.0052	-0.0035	-0.0036
					-0.0068	-0.0089	0.0036	0.0072	
	(53.47%)	-0.7313* C	5 s(0.00%)p 1.00(99.95%)d 0.00(0.05%)		0.0000	0.0033	0.0047	-0.0017	-0.0001
					-0.5493	0.0052	0.0024	-0.7857	0.0081
					0.0027	0.2835	-0.0007	0.0017	0.0075
					0.0073	0.0147	0.0077	-0.0082	
1463.	(0.03921)	BD*(1) C	4 - N	9					
	(62.34%)	0.7896* C	4 s(26.55%)p 2.76(73.39%)d 0.00(0.06%)		-0.0002	0.5151	0.0074	0.0066	-0.0005
					0.5066	0.0050	0.0081	-0.5159	-0.0055
					-0.0090	-0.4593	0.0016	-0.0076	-0.0161
					-0.0134	0.0140	0.0008	-0.0009	
	(37.66%)	-0.6136* N	9 s(34.35%)p 1.91(65.61%)d 0.00(0.04%)		-0.0001	0.5861	0.0014	-0.0018	-0.0002
					-0.5033	-0.0022	0.0070	0.4858	0.0043
					-0.0067	0.4082	-0.0003	-0.0048	-0.0105
					-0.0123	0.0112	-0.0002	-0.0016	
1464.	(0.02290)	BD*(1) C	5 - C	6					
	(49.51%)	0.7036* C	5 s(33.92%)p 1.95(66.03%)d 0.00(0.05%)		0.0001	-0.5823	-0.0106	-0.0031	-0.0001
					0.4752	0.0025	0.0010	-0.4927	0.0003
					-0.0048	-0.4376	0.0094	-0.0090	0.0150
					0.0100	-0.0120	-0.0004	0.0013	
	(50.49%)	-0.7106* C	6 s(35.81%)p 1.79(64.13%)d 0.00(0.06%)						

				-0.0001	-0.5984	0.0016	0.0044	0.0001	
				-0.4925	-0.0164	0.0051	0.4866	0.0112	
				-0.0066	0.4018	-0.0051	-0.0076	0.0168	
				0.0117	-0.0137	-0.0007	0.0004		
1465.	(0.03210)	BD*(1) C	5 - C	51					
	(49.98%)	0.7070*	C	5	s(31.86%)	p 2.14(68.11%)	d 0.00(0.03%)		
					0.0001	-0.5644	0.0069	0.0033	0.0000
					-0.6662	-0.0130	0.0046	0.3364	0.0053
					-0.0026	-0.3517	-0.0096	0.0018	0.0105
					-0.0103	0.0041	-0.0084	0.0036	
	(50.02%)	-0.7072*	C	51	s(26.67%)	p 2.75(73.28%)	d 0.00(0.06%)		
					-0.0001	-0.5164	-0.0015	0.0019	0.0002
					0.7022	-0.0010	-0.0024	-0.3264	0.0035
					0.0000	0.3649	0.0009	-0.0026	0.0128
					-0.0144	0.0069	-0.0104	0.0054	
1466.	(0.01486)	BD*(1) C	6 - C	7					
	(49.78%)	0.7056*	C	6	s(36.09%)	p 1.77(63.85%)	d 0.00(0.05%)		
					0.0000	-0.6006	-0.0147	-0.0044	-0.0001
					0.6446	0.0175	0.0032	-0.3477	-0.0183
					-0.0066	0.3178	-0.0155	-0.0120	0.0115
					-0.0161	0.0067	-0.0089	0.0006	
	(50.22%)	-0.7086*	C	7	s(35.95%)	p 1.78(63.98%)	d 0.00(0.07%)		
					0.0000	-0.5996	-0.0077	0.0016	0.0001
					-0.6232	-0.0103	0.0093	0.3357	-0.0025
					-0.0091	-0.3708	-0.0309	-0.0057	0.0182
					-0.0120	0.0058	-0.0096	0.0073	
1467.	(0.33555)	BD*(2) C	6 - C	7					
	(48.96%)	0.6997*	C	6	s(0.00%)	p 1.00(99.98%)	d 0.00(0.02%)		
					0.0000	-0.0015	0.0002	-0.0006	-0.0001
					-0.5570	0.0058	-0.0136	-0.7859	0.0076
					-0.0176	0.2669	-0.0028	0.0054	0.0053
					0.0049	0.0103	0.0058	-0.0060	
	(51.04%)	-0.7144*	C	7	s(0.00%)	p 1.00(99.97%)	d 0.00(0.03%)		
					0.0000	-0.0039	0.0000	-0.0013	-0.0001
					-0.5698	0.0063	-0.0060	-0.7800	0.0074
					-0.0096	0.2578	-0.0028	0.0028	-0.0044
					0.0034	-0.0027	-0.0148	-0.0002	
1468.	(0.01759)	BD*(1) C	6 - H	78					
	(39.24%)	0.6264*	C	6	s(28.07%)	p 2.56(71.90%)	d 0.00(0.04%)		
					0.0004	-0.5297	0.0109	0.0003	-0.0001
					-0.1735	0.0082	0.0044	-0.1530	-0.0002
					0.0007	-0.8155	0.0142	0.0126	-0.0010
					-0.0071	-0.0057	-0.0003	-0.0168	
	(60.76%)	-0.7795*	H	78	s(99.95%)	p 0.00(0.05%)			
					-0.9997	-0.0022	-0.0013	0.0050	0.0040
					0.0222				
1469.	(0.01498)	BD*(1) C	7 - C	8					
	(50.04%)	0.7074*	C	7	s(36.04%)	p 1.77(63.89%)	d 0.00(0.06%)		
					0.0000	0.6003	0.0063	-0.0024	-0.0002
					-0.1853	-0.0243	-0.0055	-0.1213	0.0118
					0.0094	-0.7672	-0.0174	0.0095	-0.0005
					0.0050	0.0105	-0.0005	0.0226	
	(49.96%)	-0.7069*	C	8	s(35.83%)	p 1.79(64.12%)	d 0.00(0.05%)		
					0.0000	0.5984	0.0139	0.0046	0.0002
					0.1372	-0.0176	-0.0093	0.1417	0.0186
					0.0098	0.7754	0.0163	0.0012	-0.0001
					0.0115	0.0031	0.0019	0.0191	
1470.	(0.01576)	BD*(1) C	7 - H	77					
	(39.16%)	0.6258*	C	7	s(27.95%)	p 2.58(72.01%)	d 0.00(0.03%)		
					-0.0004	0.5286	-0.0118	0.0036	0.0003
					-0.5010	0.0133	-0.0018	0.5131	-0.0144
					0.0026	0.4530	-0.0128	0.0024	-0.0076
					-0.0127	0.0092	-0.0020	-0.0041	
	(60.84%)	-0.7800*	H	77	s(99.95%)	p 0.00(0.05%)			
					0.9997	0.0015	0.0005	0.0136	-0.0141
					-0.0123				
1471.	(0.01781)	BD*(1) C	8 - H	76					
	(38.92%)	0.6238*	C	8	s(28.24%)	p 2.54(71.73%)	d 0.00(0.04%)		
					-0.0004	0.5313	-0.0108	-0.0006	0.0001
					-0.6628	0.0102	0.0096	0.3826	-0.0062
					-0.0030	-0.3622	0.0106	0.0065	-0.0115

0.0112 -0.0063 0.0070 -0.0039
 (61.08%) -0.7816* H 76 s(99.95%)p 0.00(0.05%)
 0.9997 -0.0020 0.0015 0.0184 -0.0096
 0.0106

1472. (0.04581) BD*(1) N 9 - C 10
 (37.53%) 0.6126* N 9 s(33.77%)p 1.96(66.17%)d 0.00(0.05%)
 -0.0001 0.5812 -0.0006 0.0005 0.0001
 -0.1567 0.0128 -0.0030 -0.7937 0.0065
 0.0042 -0.0829 -0.0075 0.0023 0.0033
 -0.0015 0.0045 -0.0191 -0.0116
 (62.47%) -0.7904* C 10 s(26.30%)p 2.80(73.64%)d 0.00(0.06%)
 -0.0004 0.5123 0.0205 0.0092 -0.0005
 0.0496 -0.0115 -0.0041 0.8485 0.0207
 0.0158 0.1141 0.0057 0.0065 0.0078
 -0.0005 0.0007 -0.0195 -0.0135

1473. (0.72110) BD*(2) N 9 - C 10
 (23.81%) 0.4879* N 9 s(0.08%)p99.99(99.90%)d 0.16(0.01%)
 0.0001 0.0286 -0.0055 0.0002 0.0000
 -0.4677 -0.0066 -0.0033 0.2030 0.0001
 0.0017 -0.8596 -0.0076 -0.0085 0.0057
 -0.0023 0.0086 -0.0003 0.0047
 (76.19%) -0.8729* C 10 s(0.09%)p99.99(99.74%)d 1.76(0.17%)
 -0.0003 -0.0299 -0.0060 0.0037 -0.0003
 -0.4290 0.0003 -0.0060 0.1623 0.0095
 -0.0087 -0.8865 -0.0299 0.0064 -0.0161
 -0.0117 -0.0336 -0.0113 -0.0020

1474. (0.03014) BD*(1) N 9 - C 13
 (38.02%) 0.6166* N 9 s(31.75%)p 2.15(68.20%)d 0.00(0.05%)
 0.0001 -0.5634 0.0047 -0.0013 -0.0001
 -0.7088 0.0056 0.0011 -0.3030 0.0236
 -0.0050 0.2953 -0.0059 0.0005 -0.0098
 0.0129 0.0026 -0.0134 0.0081
 (61.98%) -0.7873* C 13 s(28.26%)p 2.54(71.68%)d 0.00(0.05%)
 0.0001 -0.5316 -0.0032 -0.0003 0.0016
 0.7547 0.0287 0.0054 0.1846 -0.0096
 -0.0080 -0.3346 -0.0139 0.0005 -0.0120
 0.0141 0.0041 -0.0101 0.0092

1475. (0.04659) BD*(1) C 10 - N 11
 (62.47%) 0.7904* C 10 s(26.68%)p 2.75(73.25%)d 0.00(0.07%)
 0.0003 -0.5161 -0.0213 -0.0043 -0.0005
 -0.6918 -0.0103 -0.0069 0.2967 0.0190
 0.0109 0.4064 0.0119 0.0035 0.0066
 0.0197 -0.0043 -0.0148 0.0043
 (37.53%) -0.6126* N 11 s(34.03%)p 1.94(65.91%)d 0.00(0.05%)
 0.0001 -0.5834 0.0016 0.0010 -0.0001
 0.7080 -0.0084 -0.0014 -0.1705 -0.0128
 0.0062 -0.3585 0.0042 0.0015 0.0095
 0.0166 -0.0055 -0.0109 0.0048

1476. (0.02957) BD*(1) C 10 - B 14
 (33.22%) 0.5763* C 10 s(46.95%)p 1.13(53.05%)d 0.00(0.01%)
 -0.0001 0.6850 -0.0155 -0.0068 -0.0001
 -0.5768 0.0305 0.0040 -0.4040 0.0161
 0.0044 0.1823 -0.0052 -0.0044 0.0050
 -0.0025 0.0008 0.0025 -0.0069
 (66.78%) -0.8172* B 14 s(40.37%)p 1.48(59.58%)d 0.00(0.05%)
 -0.0004 0.6352 -0.0007 0.0122 0.0023
 0.6817 0.0097 0.0209 0.3609 0.0041
 0.0118 -0.0061 0.0050 0.0015 0.0169
 -0.0041 -0.0030 0.0093 -0.0109

1477. (0.02954) BD*(1) N 11 - C 12
 (38.03%) 0.6167* N 11 s(31.51%)p 2.17(68.44%)d 0.00(0.05%)
 0.0001 -0.5613 0.0035 0.0002 -0.0001
 -0.5370 0.0192 -0.0027 -0.6123 0.0020
 0.0030 0.1432 -0.0151 0.0031 -0.0183
 0.0038 0.0031 0.0049 0.0122
 (61.97%) -0.7872* C 12 s(28.22%)p 2.54(71.71%)d 0.00(0.06%)
 0.0001 -0.5312 -0.0034 -0.0015 0.0012
 0.4570 0.0049 -0.0039 0.7044 0.0333
 0.0062 -0.1045 0.0039 0.0063 -0.0193
 0.0078 0.0050 0.0033 0.0130

1478. (0.03975) BD*(1) N 11 - C 41

(37.63%) 0.6135* N 11 s(34.36%)p 1.91(65.60%)d 0.00(0.04%)
0.0001 -0.5862 -0.0010 -0.0012 0.0002
-0.2057 -0.0034 0.0033 0.7610 0.0028
-0.0091 0.1858 0.0035 -0.0033 0.0086
0.0031 -0.0054 0.0132 0.0101

(62.37%) -0.7897* C 41 s(26.52%)p 2.77(73.36%)d 0.00(0.12%)
0.0002 -0.5149 -0.0047 -0.0051 0.0006
0.2723 0.0053 -0.0002 -0.7932 0.0014
-0.0077 -0.1726 0.0195 -0.0063 0.0216
-0.0013 0.0086 0.0195 0.0170

1479. (0.45441) BD*(2) N 11 - C 41
(1.54%) 0.1241* N 11 s(0.05%)p99.99(99.95%)d 0.07(0.00%)
0.0002 0.0219 -0.0041 0.0000 0.0000
-0.4088 -0.0051 -0.0039 0.1270 -0.0003
0.0017 -0.9034 -0.0040 -0.0089 -0.0025
-0.0014 -0.0047 0.0000 -0.0026

(98.46%) -0.9923* C 41 s(1.14%)p58.44(66.45%)d28.50(32.41%)
-0.0006 -0.0261 -0.0961 -0.0380 -0.0044
-0.2042 -0.1381 0.0950 0.0584 0.0396
-0.0642 -0.6365 -0.4107 0.1088 -0.2537
0.0832 -0.4746 -0.0335 -0.1627

1480. (0.00980) BD*(1) C 12 - C 13
(50.01%) 0.7072* C 12 s(37.54%)p 1.66(62.40%)d 0.00(0.05%)
0.0000 0.6126 0.0104 0.0031 0.0006
-0.2903 0.0129 0.0145 0.6870 0.0316
0.0095 0.2575 -0.0015 -0.0065 -0.0138
-0.0098 0.0116 -0.0063 -0.0088

(49.99%) -0.7070* C 13 s(37.53%)p 1.66(62.42%)d 0.00(0.05%)
0.0000 0.6125 0.0100 0.0033 0.0007
0.4344 0.0312 0.0123 -0.5810 0.0004
0.0120 -0.3106 -0.0146 -0.0068 -0.0117
-0.0077 0.0113 -0.0105 -0.0100

1481. (0.28111) BD*(2) C 12 - C 13
(50.00%) 0.7071* C 12 s(0.00%)p 1.00(99.94%)d 0.00(0.06%)
0.0000 -0.0008 -0.0050 0.0014 0.0001
0.4327 -0.0088 -0.0005 -0.1495 0.0032
0.0009 0.8884 -0.0214 0.0006 0.0094
-0.0085 0.0127 -0.0041 0.0156

(50.00%) -0.7071* C 13 s(0.00%)p 1.00(99.94%)d 0.00(0.06%)
0.0000 0.0009 -0.0060 0.0030 0.0001
0.4317 -0.0092 0.0002 -0.1515 0.0050
-0.0009 0.8886 -0.0207 -0.0004 -0.0107
0.0030 -0.0186 0.0000 -0.0108

1482. (0.01213) BD*(1) C 12 - H 71
(38.05%) 0.6168* C 12 s(34.17%)p 1.93(65.81%)d 0.00(0.02%)
0.0003 -0.5845 0.0079 0.0037 -0.0002
-0.7203 0.0114 -0.0016 0.0807 -0.0051
-0.0116 0.3639 -0.0070 -0.0004 0.0028
0.0105 -0.0017 -0.0096 0.0034

(61.95%) -0.7871* H 71 s(99.93%)p 0.00(0.07%)
-0.9997 -0.0018 -0.0002 0.0228 -0.0029
-0.0117

1483. (0.01229) BD*(1) C 13 - H 72
(38.06%) 0.6169* C 13 s(34.15%)p 1.93(65.83%)d 0.00(0.02%)
0.0003 -0.5843 0.0076 0.0032 -0.0005
-0.2301 0.0005 -0.0092 -0.7776 0.0141
0.0024 -0.0202 0.0012 0.0069 -0.0068
0.0005 -0.0012 0.0107 0.0079

(61.94%) -0.7870* H 72 s(99.93%)p 0.00(0.07%)
-0.9997 -0.0018 -0.0003 0.0071 0.0249
0.0005

1484. (0.04014) BD*(1) B 14 - B 15
(50.00%) 0.7071* B 14 s(41.46%)p 1.41(58.51%)d 0.00(0.02%)
0.0003 0.6439 0.0009 -0.0079 -0.0014
-0.3842 -0.0057 0.0086 -0.3996 0.0034
0.0018 0.5269 -0.0074 0.0050 0.0076
0.0007 0.0047 0.0094 -0.0089

(50.00%) -0.7071* B 15 s(35.85%)p 1.79(64.13%)d 0.00(0.02%)
0.0005 0.5986 0.0042 -0.0098 -0.0020
0.7256 -0.0099 -0.0112 0.1869 -0.0087
-0.0056 0.2817 0.0076 0.0063 0.0093

-0.0066 -0.0034 0.0077 -0.0060
 1485. (0.05483) BD*(1) B 15 - C 16
 (66.05%) 0.8127* B 15 s(37.77%)p 1.65(62.19%)d 0.00(0.04%)
 -0.0012 0.6145 0.0018 0.0069 0.0010
 -0.5565 0.0034 -0.0173 -0.3990 0.0015
 -0.0123 0.3904 0.0032 0.0120 0.0138
 -0.0106 -0.0073 0.0053 -0.0034
 (33.95%) -0.5827* C 16 s(46.89%)p 1.13(53.11%)d 0.00(0.01%)
 0.0000 0.6845 -0.0171 -0.0050 0.0001
 0.5370 -0.0245 -0.0049 0.4029 -0.0194
 -0.0035 -0.2812 0.0163 0.0008 0.0037
 -0.0034 -0.0045 0.0027 -0.0010
 1486. (0.04814) BD*(1) C 16 - N 17
 (62.95%) 0.7934* C 16 s(26.30%)p 2.80(73.63%)d 0.00(0.07%)
 -0.0004 0.5122 0.0236 0.0037 -0.0003
 -0.8032 -0.0162 -0.0108 -0.0083 0.0092
 0.0049 -0.3003 -0.0176 -0.0091 0.0067
 0.0107 0.0011 0.0214 -0.0115
 (37.05%) -0.6087* N 17 s(34.38%)p 1.91(65.56%)d 0.00(0.06%)
 -0.0001 0.5864 -0.0022 -0.0015 0.0001
 0.7863 -0.0066 -0.0019 0.0549 -0.0116
 0.0031 0.1846 0.0087 -0.0045 0.0012
 0.0131 -0.0012 0.0179 -0.0081
 1487. (0.60501) BD*(2) C 16 - N 17
 (74.06%) 0.8606* C 16 s(0.07%)p99.99(99.77%)d 2.47(0.16%)
 0.0001 0.0253 0.0036 -0.0009 0.0004
 -0.2338 -0.0032 -0.0016 0.7218 0.0263
 -0.0108 0.6489 0.0149 -0.0030 -0.0258
 -0.0251 -0.0090 0.0145 -0.0061
 (25.94%) -0.5093* N 17 s(0.02%)p99.99(99.96%)d 0.83(0.02%)
 0.0000 -0.0143 0.0040 -0.0006 0.0000
 -0.1986 -0.0038 -0.0022 0.7039 0.0040
 0.0076 0.6816 0.0057 0.0065 0.0077
 0.0049 0.0034 0.0004 0.0094
 1488. (0.05247) BD*(1) C 16 - N 20
 (62.98%) 0.7936* C 16 s(26.80%)p 2.73(73.13%)d 0.00(0.07%)
 -0.0003 0.5170 0.0259 0.0042 -0.0001
 0.0963 0.0178 0.0088 -0.5605 -0.0103
 -0.0076 0.6379 0.0143 0.0130 0.0019
 -0.0022 -0.0231 -0.0113 0.0068
 (37.02%) -0.6085* N 20 s(34.60%)p 1.89(65.35%)d 0.00(0.05%)
 -0.0001 0.5882 -0.0036 -0.0020 0.0001
 0.0229 -0.0153 0.0047 0.5448 -0.0081
 -0.0012 -0.5965 0.0009 0.0033 -0.0013
 0.0028 -0.0204 -0.0079 0.0071
 1489. (0.03043) BD*(1) N 17 - C 18
 (38.06%) 0.6169* N 17 s(31.37%)p 2.19(68.57%)d 0.00(0.05%)
 0.0001 -0.5601 0.0057 0.0000 -0.0001
 0.4787 -0.0226 0.0035 0.5294 -0.0078
 -0.0015 -0.4191 -0.0062 0.0032 -0.0129
 0.0110 0.0158 0.0027 0.0006
 (61.94%) -0.7870* C 18 s(28.59%)p 2.50(71.35%)d 0.00(0.07%)
 0.0001 -0.5346 -0.0044 -0.0015 0.0011
 -0.3761 0.0019 0.0064 -0.5764 -0.0225
 -0.0011 0.4884 0.0260 0.0067 -0.0166
 0.0107 0.0163 0.0000 0.0038
 1490. (0.04192) BD*(1) N 17 - C 21
 (36.89%) 0.6074* N 17 s(34.18%)p 1.92(65.78%)d 0.00(0.03%)
 0.0001 -0.5846 -0.0029 -0.0013 0.0001
 0.3348 0.0051 -0.0045 -0.4695 -0.0027
 0.0052 0.5702 0.0066 -0.0070 0.0074
 -0.0091 0.0141 0.0023 -0.0024
 (63.11%) -0.7944* C 21 s(25.90%)p 2.86(74.02%)d 0.00(0.07%)
 0.0002 -0.5088 -0.0080 -0.0075 0.0006
 -0.3843 -0.0033 -0.0051 0.5020 -0.0002
 0.0066 -0.5834 -0.0058 -0.0075 0.0121
 -0.0132 0.0184 0.0049 -0.0059
 1491. (0.00978) BD*(1) C 18 - C 19
 (50.03%) 0.7073* C 18 s(37.04%)p 1.70(62.91%)d 0.00(0.05%)
 0.0000 -0.6085 -0.0095 -0.0027 -0.0007
 -0.4291 0.0111 0.0143 0.3778 0.0241

				0.0094	-0.5484	-0.0219	-0.0041	0.0081
				-0.0167	0.0116	-0.0080	-0.0012	
	(49.97%)	-0.7069*	C 19	s(37.19%)	p 1.69(62.76%)	d 0.00(0.05%)		
				0.0000	-0.6097	-0.0092	-0.0028	-0.0006
				0.5697	0.0334	0.0103	-0.2598	0.0086
				0.0130	0.4838	0.0013	-0.0070	0.0083
				-0.0153	0.0146	-0.0040	-0.0036	
1492.	(0.28227)	BD*(2)	C 18 - C 19					
	(50.33%)	0.7095*	C 18	s(0.00%)	p 1.00(99.94%)	d 0.00(0.06%)		
				0.0000	0.0007	-0.0023	0.0012	0.0001
				-0.2259	0.0043	0.0000	0.7106	-0.0159
				0.0003	0.6655	-0.0144	0.0008	0.0156
				0.0102	0.0056	-0.0009	0.0149	
	(49.67%)	-0.7047*	C 19	s(0.00%)	p 1.00(99.94%)	d 0.00(0.06%)		
				0.0000	0.0027	-0.0028	0.0019	0.0001
				-0.2352	0.0051	-0.0005	0.7109	-0.0170
				0.0014	0.6620	-0.0139	0.0000	-0.0099
				-0.0021	-0.0036	-0.0074	-0.0203	
1493.	(0.01214)	BD*(1)	C 18 - H 63					
	(37.80%)	0.6148*	C 18	s(34.32%)	p 1.91(65.66%)	d 0.00(0.02%)		
				-0.0003	0.5857	-0.0077	-0.0033	0.0002
				-0.7890	0.0146	-0.0005	-0.1341	0.0003
				-0.0085	-0.1252	0.0058	0.0082	0.0036
				0.0043	0.0000	0.0120	-0.0068	
	(62.20%)	-0.7886*	H 63	s(99.93%)	p 0.00(0.07%)			
				0.9997	0.0018	0.0002	0.0252	0.0037
				0.0045				
1494.	(0.03069)	BD*(1)	C 19 - N 20					
	(62.02%)	0.7875*	C 19	s(28.42%)	p 2.52(71.51%)	d 0.00(0.07%)		
				-0.0001	0.5331	0.0043	0.0013	-0.0012
				0.7774	0.0331	0.0053	0.3228	0.0004
				-0.0070	-0.0726	0.0095	0.0051	0.0178
				-0.0061	-0.0073	0.0116	-0.0109	
	(37.98%)	-0.6163*	N 20	s(31.27%)	p 2.20(68.68%)	d 0.00(0.05%)		
				-0.0001	0.5592	-0.0037	0.0003	0.0001
				-0.7108	0.0036	0.0032	-0.3916	0.0201
				-0.0033	0.1659	-0.0141	0.0029	0.0148
				-0.0045	-0.0036	0.0134	-0.0104	
1495.	(0.01258)	BD*(1)	C 19 - H 64					
	(37.87%)	0.6154*	C 19	s(34.33%)	p 1.91(65.65%)	d 0.00(0.02%)		
				-0.0003	0.5858	-0.0073	-0.0033	0.0002
				-0.1129	-0.0021	-0.0106	-0.5674	0.0108
				-0.0028	0.5669	-0.0110	-0.0037	0.0022
				-0.0018	-0.0130	-0.0057	0.0036	
	(62.13%)	-0.7882*	H 64	s(99.93%)	p 0.00(0.07%)			
				0.9997	0.0019	0.0002	0.0030	0.0183
				-0.0182				
1496.	(0.04104)	BD*(1)	N 20 - C 31					
	(37.22%)	0.6101*	N 20	s(34.08%)	p 1.93(65.89%)	d 0.00(0.04%)		
				0.0001	-0.5838	-0.0027	-0.0017	0.0002
				-0.6545	-0.0049	0.0078	0.1638	0.0043
				-0.0023	-0.4511	-0.0052	0.0056	0.0032
				-0.0152	0.0046	-0.0103	-0.0002	
	(62.78%)	-0.7923*	C 31	s(26.18%)	p 2.82(73.75%)	d 0.00(0.07%)		
				0.0002	-0.5116	-0.0082	-0.0071	0.0004
				0.6697	0.0030	0.0076	-0.1648	-0.0037
				-0.0014	0.5115	0.0015	0.0063	0.0069
				-0.0213	0.0037	-0.0136	-0.0005	
1497.	(0.03442)	BD*(1)	C 21 - C 22					
	(49.11%)	0.7008*	C 21	s(37.14%)	p 1.69(62.82%)	d 0.00(0.05%)		
				0.0002	-0.6094	0.0012	0.0033	-0.0001
				-0.0162	0.0063	0.0045	0.2457	-0.0018
				0.0007	0.7533	0.0054	-0.0006	0.0014
				-0.0002	-0.0119	0.0035	-0.0176	
	(50.89%)	-0.7133*	C 22	s(33.53%)	p 1.98(66.42%)	d 0.00(0.06%)		
				0.0000	-0.5790	-0.0030	0.0011	0.0000
				-0.0120	0.0097	0.0007	-0.2101	-0.0098
				0.0023	-0.7872	-0.0007	-0.0016	0.0018
				0.0009	-0.0108	0.0026	-0.0206	
1498.	(0.03531)	BD*(1)	C 21 - C 26					
	(49.51%)	0.7036*	C 21	s(36.89%)	p 1.71(63.07%)	d 0.00(0.05%)		

				0.0002	-0.6073	0.0019	0.0025	-0.0002
				0.3615	0.0084	0.0040	-0.6531	-0.0045
				-0.0017	-0.2708	0.0021	0.0000	0.0152
				0.0061	-0.0106	0.0082	0.0049	
	(50.49%)	-0.7105* C	26 s(34.11%)p 1.93(65.83%)d 0.00(0.05%)	0.0000	-0.5841	-0.0031	0.0005	0.0000
				-0.3858	0.0048	0.0013	0.6772	0.0003
				0.0011	0.2253	0.0121	-0.0031	0.0157
				0.0053	-0.0105	0.0099	0.0063	
1499.	(0.38598)	BD*(2) C	21 - C 26					
	(46.03%)	0.6785* C	21 s(0.04%)p99.99(99.94%)d 0.56(0.02%)	-0.0002	-0.0165	-0.0091	0.0003	0.0003
				-0.8489	0.0014	0.0054	-0.5104	0.0067
				0.0051	0.1348	-0.0024	-0.0031	-0.0047
				-0.0029	0.0004	0.0130	-0.0003	
	(53.97%)	-0.7346* C	26 s(0.00%)p 1.00(99.95%)d 0.00(0.05%)	0.0000	-0.0009	-0.0057	0.0020	0.0002
				-0.8387	0.0097	0.0036	-0.5255	0.0027
				-0.0014	0.1409	-0.0020	-0.0018	0.0098
				0.0126	0.0052	-0.0135	-0.0036	
1500.	(0.02275)	BD*(1) C	22 - C 23					
	(49.55%)	0.7039* C	22 s(34.21%)p 1.92(65.75%)d 0.00(0.05%)	0.0001	-0.5848	-0.0089	-0.0043	-0.0003
				0.3818	0.0038	0.0048	-0.4604	-0.0050
				0.0007	0.5473	-0.0078	0.0115	0.0122
				-0.0121	0.0123	0.0026	-0.0031	
	(50.45%)	-0.7103* C	23 s(35.86%)p 1.79(64.08%)d 0.00(0.06%)	-0.0001	-0.5988	0.0004	0.0041	0.0003
				-0.3862	-0.0115	0.0045	0.4769	0.0167
				-0.0050	-0.5135	0.0026	0.0092	0.0134
				-0.0132	0.0150	0.0037	-0.0054	
1501.	(0.32447)	BD*(2) C	22 - C 23					
	(51.69%)	0.7190* C	22 s(0.02%)p99.99(99.94%)d 1.71(0.03%)	-0.0002	-0.0062	-0.0128	0.0010	0.0006
				-0.8456	0.0042	-0.0024	-0.5105	0.0073
				0.0028	0.1537	-0.0064	-0.0038	-0.0065
				0.0004	0.0033	0.0172	-0.0010	
	(48.31%)	-0.6950* C	23 s(0.00%)p 1.00(99.96%)d 0.00(0.03%)	0.0000	-0.0001	-0.0045	0.0001	0.0001
				-0.8394	0.0021	-0.0147	-0.5229	0.0037
				-0.0117	0.1459	0.0003	0.0029	0.0013
				-0.0134	-0.0097	-0.0065	0.0038	
1502.	(0.03210)	BD*(1) C	22 - C 27					
	(49.80%)	0.7057* C	22 s(32.22%)p 2.10(67.75%)d 0.00(0.03%)	0.0001	-0.5676	0.0058	0.0042	0.0003
				-0.3719	-0.0040	0.0033	0.6945	0.0166
				-0.0064	0.2375	0.0045	0.0009	0.0117
				0.0025	-0.0067	0.0096	0.0059	
	(50.20%)	-0.7085* C	27 s(26.68%)p 2.75(73.27%)d 0.00(0.06%)	-0.0001	-0.5165	-0.0001	0.0014	-0.0005
				0.3744	-0.0052	-0.0001	-0.7310	-0.0012
				0.0007	-0.2409	-0.0001	0.0030	0.0156
				0.0057	-0.0105	0.0102	0.0090	
1503.	(0.01470)	BD*(1) C	23 - C 24					
	(49.89%)	0.7064* C	23 s(35.87%)p 1.79(64.07%)d 0.00(0.05%)	0.0000	-0.5988	-0.0135	-0.0054	-0.0002
				0.3811	0.0137	0.0036	-0.6705	-0.0165
				-0.0022	-0.2117	0.0198	0.0137	0.0142
				0.0065	-0.0133	0.0091	0.0040	
	(50.11%)	-0.7079* C	24 s(35.96%)p 1.78(63.97%)d 0.00(0.07%)	0.0000	-0.5996	-0.0058	0.0020	0.0002
				-0.3654	-0.0027	0.0084	0.6618	0.0113
				-0.0099	0.2588	0.0295	0.0077	0.0197
				0.0032	-0.0067	0.0111	0.0102	
1504.	(0.01740)	BD*(1) C	23 - H 67					
	(38.93%)	0.6239* C	23 s(28.23%)p 2.54(71.73%)d 0.00(0.04%)	-0.0004	0.5312	-0.0109	-0.0014	0.0001
				-0.0058	0.0002	-0.0024	-0.2188	0.0095
				0.0046	-0.8179	0.0147	0.0124	-0.0002
				0.0002	0.0087	-0.0015	0.0168	
	(61.07%)	-0.7815* H	67 s(99.94%)p 0.00(0.06%)					

				0.9997	-0.0017	0.0014	-0.0015	0.0058
				0.0227				
1505.	(0.01474)	BD*(1)	C 24 - C 25					
	(50.24%)		0.7088* C 24	s(35.96%)	p 1.78(63.97%)	d 0.00(0.07%)		
				0.0000	-0.5996	-0.0080	0.0020	0.0001
				0.0142	0.0136	0.0068	-0.2360	-0.0263
				-0.0060	-0.7633	-0.0136	0.0116	0.0014
				-0.0031	-0.0075	0.0015	-0.0243	
	(49.76%)		-0.7054* C 25	s(36.10%)	p 1.77(63.85%)	d 0.00(0.05%)		
				0.0000	-0.6007	-0.0144	-0.0044	-0.0001
				0.0185	0.0138	0.0087	0.1930	-0.0170
				-0.0104	0.7744	0.0202	0.0033	0.0022
				0.0021	-0.0135	0.0033	-0.0176	
1506.	(0.33515)	BD*(2)	C 24 - C 25					
	(51.15%)		0.7152* C 24	s(0.00%)	p 1.00(99.97%)	d 0.00(0.03%)		
				0.0000	0.0002	0.0031	-0.0021	0.0001
				0.8406	-0.0071	0.0095	0.5212	-0.0042
				0.0054	-0.1457	0.0013	-0.0018	0.0007
				0.0125	0.0084	0.0044	-0.0043	
	(48.85%)		-0.6989* C 25	s(0.00%)	p 1.00(99.98%)	d 0.00(0.02%)		
				0.0001	0.0006	0.0011	-0.0012	-0.0003
				0.8397	-0.0082	0.0181	0.5214	-0.0050
				0.0106	-0.1495	-0.0003	-0.0033	-0.0059
				-0.0092	-0.0038	0.0092	0.0025	
1507.	(0.01546)	BD*(1)	C 24 - H 66					
	(39.10%)		0.6253* C 24	s(28.03%)	p 2.57(71.94%)	d 0.00(0.03%)		
				0.0004	-0.5293	0.0115	-0.0035	-0.0003
				0.3984	-0.0123	0.0025	-0.4827	0.0132
				-0.0020	0.5719	-0.0153	0.0022	0.0045
				-0.0098	0.0143	-0.0006	-0.0005	
	(60.90%)		-0.7804* H 66	s(99.95%)	p 0.00(0.05%)			
				-0.9997	-0.0014	-0.0005	-0.0106	0.0132
				-0.0158				
1508.	(0.02276)	BD*(1)	C 25 - C 26					
	(50.63%)		0.7116* C 25	s(35.74%)	p 1.80(64.20%)	d 0.00(0.06%)		
				0.0001	0.5978	-0.0017	-0.0044	-0.0001
				0.3694	0.0031	-0.0060	-0.4342	0.0022
				0.0071	0.5626	0.0199	-0.0057	-0.0129
				0.0134	-0.0148	-0.0033	0.0060	
	(49.37%)		-0.7026* C 26	s(33.98%)	p 1.94(65.97%)	d 0.00(0.05%)		
				-0.0002	0.5828	0.0099	0.0029	0.0001
				-0.3836	0.0037	-0.0077	0.4652	-0.0079
				0.0077	-0.5441	-0.0034	0.0000	-0.0110
				0.0119	-0.0127	-0.0023	0.0058	
1509.	(0.01723)	BD*(1)	C 25 - H 65					
	(39.19%)		0.6260* C 25	s(28.12%)	p 2.55(71.84%)	d 0.00(0.04%)		
				0.0004	-0.5302	0.0105	0.0004	-0.0001
				0.3966	-0.0066	-0.0044	-0.7080	0.0112
				0.0105	-0.2439	0.0108	0.0055	0.0129
				0.0046	-0.0083	0.0079	0.0066	
	(60.81%)		-0.7798* H 65	s(99.95%)	p 0.00(0.05%)			
				-0.9997	-0.0020	-0.0013	-0.0105	0.0195
				0.0069				
1510.	(0.03221)	BD*(1)	C 26 - C 29					
	(49.95%)		0.7068* C 26	s(31.88%)	p 2.14(68.09%)	d 0.00(0.03%)		
				0.0001	-0.5645	0.0074	0.0031	0.0002
				0.0045	0.0027	0.0007	-0.2195	-0.0065
				0.0004	-0.7952	-0.0162	0.0049	0.0013
				0.0000	-0.0072	0.0015	-0.0161	
	(50.05%)		-0.7075* C 29	s(26.68%)	p 2.75(73.27%)	d 0.00(0.06%)		
				-0.0001	-0.5165	-0.0016	0.0017	0.0001
				-0.0141	-0.0025	0.0022	0.2394	0.0010
				-0.0018	0.8217	-0.0018	-0.0030	0.0001
				0.0005	-0.0113	0.0015	-0.0206	
1511.	(0.01812)	BD*(1)	C 27 - C 28					
	(49.51%)		0.7037* C 27	s(25.54%)	p 2.91(74.42%)	d 0.00(0.04%)		
				0.0001	-0.5053	0.0112	-0.0022	0.0001
				0.5593	-0.0005	0.0003	0.6556	0.0122
				0.0041	-0.0376	-0.0039	-0.0008	-0.0172
				0.0017	0.0010	0.0006	0.0104	
	(50.49%)		-0.7105* C 28	s(29.27%)	p 2.41(70.68%)	d 0.00(0.04%)		

					-0.0004	-0.5407	0.0193	0.0030	-0.0001
					-0.5458	-0.0107	0.0077	-0.6389	-0.0071
					0.0132	0.0176	0.0006	-0.0013	-0.0179
					0.0005	0.0007	0.0031	0.0107	
1512.	(0.01403)	BD*(1)	C 27 - C 62						
	(48.57%)	0.6969*	C 27	s(26.93%)p 2.71(73.03%)d 0.00(0.04%)					
					-0.0001	0.5188	-0.0115	0.0033	-0.0002
					0.3401	0.0136	0.0031	0.0651	-0.0020
					-0.0012	-0.7811	0.0053	-0.0039	0.0016
					-0.0112	-0.0022	0.0017	0.0153	
	(51.43%)	-0.7172*	C 62	s(28.50%)p 2.51(71.45%)d 0.00(0.05%)					
					0.0003	0.5334	-0.0218	-0.0029	0.0000
					-0.3602	-0.0039	0.0095	-0.0533	-0.0064
					0.0003	0.7625	0.0130	-0.0123	0.0009
					-0.0153	-0.0027	0.0038	0.0157	
1513.	(0.02449)	BD*(1)	C 27 - H 84						
	(38.38%)	0.6195*	C 27	s(20.90%)p 3.78(79.05%)d 0.00(0.05%)					
					0.0002	-0.4567	-0.0204	0.0043	0.0001
					-0.6559	0.0047	0.0021	0.1755	-0.0063
					0.0063	-0.5737	0.0132	0.0056	0.0050
					-0.0190	0.0051	-0.0092	-0.0039	
	(61.62%)	-0.7850*	H 84	s(99.96%)p 0.00(0.04%)					
					-0.9998	-0.0050	-0.0007	0.0169	-0.0024
					0.0125				
1514.	(0.00804)	BD*(1)	C 28 - H 90						
	(39.23%)	0.6264*	C 28	s(23.20%)p 3.31(76.76%)d 0.00(0.04%)					
					-0.0002	0.4816	0.0056	0.0024	0.0001
					0.3911	-0.0046	-0.0039	-0.7480	0.0050
					-0.0078	-0.2347	0.0020	0.0009	-0.0144
					-0.0042	0.0079	-0.0098	-0.0076	
	(60.77%)	-0.7795*	H 90	s(99.96%)p 0.00(0.04%)					
					0.9998	0.0016	0.0002	-0.0112	0.0159
					0.0062				
1515.	(0.00798)	BD*(1)	C 28 - H 91						
	(39.54%)	0.6288*	C 28	s(23.87%)p 3.19(76.08%)d 0.00(0.05%)					
					0.0000	0.4885	0.0040	0.0014	-0.0001
					-0.3302	0.0010	-0.0058	-0.1091	-0.0013
					-0.0084	0.7999	-0.0030	-0.0005	-0.0004
					-0.0132	-0.0049	0.0032	0.0169	
	(60.46%)	-0.7776*	H 91	s(99.96%)p 0.00(0.04%)					
					0.9998	0.0016	0.0000	0.0060	0.0017
					-0.0197				
1516.	(0.01047)	BD*(1)	C 28 - H 92						
	(39.32%)	0.6270*	C 28	s(23.66%)p 3.23(76.30%)d 0.00(0.05%)					
					0.0000	0.4863	0.0077	-0.0005	0.0000
					-0.6627	-0.0002	-0.0075	0.1397	-0.0033
					-0.0065	-0.5516	0.0033	-0.0004	-0.0055
					0.0170	-0.0029	0.0109	0.0023	
	(60.68%)	-0.7790*	H 92	s(99.95%)p 0.00(0.05%)					
					0.9998	0.0023	0.0002	0.0155	-0.0051
					0.0144				
1517.	(0.01761)	BD*(1)	C 29 - C 30						
	(49.31%)	0.7022*	C 29	s(26.01%)p 2.84(73.95%)d 0.00(0.04%)					
					0.0001	-0.5098	0.0125	-0.0007	0.0000
					0.8057	0.0033	0.0026	-0.0250	0.0086
					-0.0004	-0.2992	-0.0115	-0.0030	0.0012
					0.0098	-0.0003	-0.0155	0.0063	
	(50.69%)	-0.7120*	C 30	s(29.30%)p 2.41(70.65%)d 0.00(0.05%)					
					-0.0003	-0.5410	0.0190	0.0027	-0.0001
					-0.7841	-0.0125	0.0134	0.0260	0.0014
					0.0007	0.3011	0.0002	-0.0070	0.0006
					0.0124	-0.0001	-0.0161	0.0065	
1518.	(0.01761)	BD*(1)	C 29 - C 61						
	(48.72%)	0.6980*	C 29	s(26.46%)p 2.78(73.50%)d 0.00(0.04%)					
					0.0001	-0.5143	0.0111	-0.0012	-0.0001
					-0.3898	-0.0116	-0.0009	-0.7555	0.0018
					-0.0055	-0.1098	-0.0075	-0.0042	-0.0130
					-0.0013	-0.0030	0.0098	0.0089	
	(51.28%)	-0.7161*	C 61	s(28.85%)p 2.46(71.10%)d 0.00(0.05%)					
					-0.0003	-0.5370	0.0135	-0.0007	0.0005
					0.3908	0.0054	-0.0080	0.7377	0.0078

-0.0073 0.1179 -0.0041 -0.0017 -0.0154
 -0.0026 -0.0043 0.0098 0.0100
 1519. (0.02465) BD*(1) C 29 - H 83
 (38.95%) 0.6241* C 29 s(20.90%)p 3.78(79.05%)d 0.00(0.05%)
 0.0002 -0.4567 -0.0201 0.0004 -0.0001
 -0.4447 0.0057 0.0051 0.6083 -0.0122
 -0.0052 -0.4717 0.0062 -0.0050 0.0137
 -0.0105 0.0147 0.0046 0.0018
 (61.05%) -0.7813* H 83 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0054 -0.0001 0.0113 -0.0145
 0.0104
 1520. (0.00762) BD*(1) C 30 - H 93
 (39.26%) 0.6265* C 30 s(23.29%)p 3.29(76.67%)d 0.00(0.04%)
 0.0001 -0.4826 -0.0052 -0.0019 -0.0002
 -0.0011 0.0026 0.0077 -0.2021 0.0017
 0.0005 -0.8519 0.0056 -0.0047 0.0000
 -0.0001 -0.0081 0.0019 -0.0193
 (60.74%) -0.7794* H 93 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0015 -0.0002 0.0020 0.0050
 0.0203
 1521. (0.01056) BD*(1) C 30 - H 94
 (39.34%) 0.6272* C 30 s(23.75%)p 3.21(76.20%)d 0.00(0.05%)
 0.0000 -0.4873 -0.0067 0.0002 0.0001
 0.4764 0.0046 0.0087 -0.6003 0.0031
 -0.0010 0.4178 -0.0031 -0.0025 0.0138
 -0.0106 0.0112 0.0039 0.0031
 (60.66%) -0.7789* H 94 s(99.95%)p 0.00(0.05%)
 -0.9998 -0.0022 -0.0002 -0.0107 0.0148
 -0.0113
 1522. (0.00687) BD*(1) C 30 - H 95
 (39.27%) 0.6267* C 30 s(23.66%)p 3.22(76.29%)d 0.00(0.05%)
 0.0001 -0.4864 -0.0049 -0.0014 0.0001
 0.3962 0.0009 0.0082 0.7729 -0.0056
 0.0006 0.0916 -0.0009 -0.0042 -0.0150
 -0.0031 -0.0031 0.0112 0.0091
 (60.73%) -0.7793* H 95 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0012 -0.0001 -0.0092 -0.0184
 -0.0025
 1523. (0.03513) BD*(1) C 31 - C 32
 (49.39%) 0.7028* C 31 s(36.78%)p 1.72(63.17%)d 0.00(0.05%)
 0.0002 -0.6065 0.0017 0.0032 -0.0001
 -0.0389 -0.0034 -0.0005 -0.4016 0.0020
 0.0015 -0.6847 -0.0088 -0.0028 0.0012
 -0.0011 -0.0166 0.0036 -0.0135
 (50.61%) -0.7114* C 32 s(33.82%)p 1.96(66.13%)d 0.00(0.05%)
 0.0000 -0.5815 -0.0025 0.0007 0.0000
 0.0788 -0.0101 0.0023 0.3802 0.0088
 -0.0001 0.7143 -0.0021 -0.0014 0.0004
 -0.0025 -0.0176 0.0042 -0.0140
 1524. (0.03523) BD*(1) C 31 - C 36
 (49.27%) 0.7020* C 31 s(36.98%)p 1.70(62.97%)d 0.00(0.05%)
 0.0002 -0.6081 0.0016 0.0025 -0.0001
 -0.5173 -0.0061 0.0000 0.5489 0.0054
 0.0031 0.2464 -0.0054 -0.0025 0.0169
 0.0061 -0.0095 0.0022 0.0070
 (50.73%) -0.7122* C 36 s(33.78%)p 1.96(66.16%)d 0.00(0.05%)
 0.0000 -0.5812 -0.0025 0.0001 0.0000
 0.5450 -0.0036 0.0022 -0.5690 -0.0023
 0.0011 -0.2015 -0.0133 0.0006 0.0186
 0.0066 -0.0093 0.0008 0.0077
 1525. (0.37263) BD*(2) C 31 - C 36
 (45.69%) 0.6759* C 31 s(0.01%)p99.99(99.97%)d 1.31(0.02%)
 -0.0002 -0.0082 -0.0087 0.0009 0.0001
 -0.5306 0.0061 0.0063 -0.7140 0.0026
 0.0042 0.4562 -0.0007 -0.0033 -0.0013
 0.0047 -0.0046 -0.0119 -0.0012
 (54.31%) -0.7370* C 36 s(0.00%)p 1.00(99.95%)d 0.00(0.05%)
 0.0000 -0.0004 -0.0057 0.0010 0.0001
 -0.5517 0.0041 -0.0008 -0.6923 0.0101
 0.0043 0.4644 -0.0046 -0.0005 -0.0017
 -0.0118 -0.0024 0.0155 0.0107

1526. (0.02267) BD*(1) C 32 - C 33
(49.44%) 0.7032* C 32 s(34.05%)p 1.94(65.90%)d 0.00(0.05%)
0.0001 -0.5834 -0.0094 -0.0040 -0.0001
-0.6245 -0.0001 -0.0038 0.1621 0.0065
-0.0023 -0.4925 0.0078 -0.0093 0.0081
-0.0169 0.0031 -0.0103 -0.0005
(50.56%) -0.7110* C 33 s(35.75%)p 1.80(64.19%)d 0.00(0.06%)
-0.0001 -0.5979 0.0011 0.0044 0.0001
0.6298 0.0154 -0.0076 -0.1843 -0.0134
0.0007 0.4591 -0.0018 -0.0081 0.0085
-0.0198 0.0030 -0.0117 -0.0013

1527. (0.34032) BD*(2) C 32 - C 33
(51.62%) 0.7184* C 32 s(0.01%)p 1.00(99.96%)d 0.00(0.03%)
0.0001 0.0002 0.0071 -0.0021 -0.0001
0.5350 -0.0046 -0.0012 0.7197 -0.0022
0.0042 -0.4419 0.0039 0.0014 0.0053
-0.0052 0.0062 0.0150 -0.0017
(48.38%) -0.6956* C 33 s(0.00%)p 1.00(99.97%)d 0.00(0.03%)
0.0001 0.0016 0.0012 -0.0001 -0.0001
0.5376 -0.0028 0.0092 0.7132 -0.0032
0.0113 -0.4491 0.0015 -0.0089 -0.0083
-0.0035 -0.0097 -0.0037 0.0113

1528. (0.03229) BD*(1) C 32 - C 37
(49.77%) 0.7055* C 32 s(32.10%)p 2.11(67.87%)d 0.00(0.03%)
0.0001 -0.5665 0.0064 0.0038 0.0000
0.5628 0.0103 -0.0042 -0.5572 -0.0122
0.0048 -0.2264 -0.0063 0.0002 0.0144
0.0047 -0.0061 -0.0010 0.0064
(50.23%) -0.7087* C 37 s(26.54%)p 2.77(73.40%)d 0.00(0.06%)
-0.0001 -0.5152 -0.0012 0.0021 0.0001
-0.5819 0.0019 0.0024 0.5808 -0.0006
-0.0011 0.2409 0.0016 -0.0035 0.0189
0.0080 -0.0079 0.0002 0.0090

1529. (0.01475) BD*(1) C 33 - C 34
(49.78%) 0.7056* C 33 s(36.06%)p 1.77(63.89%)d 0.00(0.05%)
0.0000 -0.6003 -0.0142 -0.0045 0.0000
-0.5534 -0.0226 -0.0069 0.5416 0.0063
-0.0020 0.1955 -0.0178 -0.0118 0.0170
0.0080 -0.0113 0.0022 0.0056
(50.22%) -0.7086* C 34 s(35.89%)p 1.78(64.04%)d 0.00(0.07%)
0.0000 -0.5990 -0.0074 0.0018 0.0001
0.5213 -0.0002 -0.0098 -0.5587 -0.0181
0.0052 -0.2351 -0.0270 -0.0075 0.0221
0.0044 -0.0059 -0.0021 0.0108

1530. (0.01721) BD*(1) C 33 - H 70
(39.08%) 0.6251* C 33 s(28.16%)p 2.55(71.80%)d 0.00(0.04%)
0.0004 -0.5306 0.0109 0.0005 -0.0001
-0.0816 -0.0035 -0.0002 -0.4036 0.0098
0.0078 -0.7403 0.0129 0.0104 -0.0010
-0.0026 -0.0140 0.0038 -0.0120
(60.92%) -0.7805* H 70 s(99.95%)p 0.00(0.05%)
-0.9997 -0.0019 -0.0013 0.0021 0.0114
0.0202

1531. (0.01478) BD*(1) C 34 - C 35
(50.12%) 0.7080* C 34 s(36.02%)p 1.77(63.92%)d 0.00(0.06%)
0.0000 0.6001 0.0067 -0.0022 -0.0002
-0.0528 0.0196 0.0070 -0.4018 -0.0227
-0.0036 -0.6883 -0.0117 0.0110 0.0021
0.0078 0.0170 -0.0027 0.0169
(49.88%) -0.7062* C 35 s(35.99%)p 1.78(63.96%)d 0.00(0.05%)
0.0000 0.5997 0.0141 0.0044 0.0001
0.0989 0.0230 0.0088 0.3787 -0.0068
-0.0087 0.6967 0.0182 0.0056 -0.0012
-0.0001 0.0182 -0.0056 0.0119

1532. (0.33303) BD*(2) C 34 - C 35
(50.89%) 0.7134* C 34 s(0.00%)p 1.00(99.97%)d 0.00(0.03%)
0.0000 -0.0020 0.0008 -0.0041 -0.0002
0.5464 -0.0043 0.0015 0.7032 -0.0061
0.0062 -0.4543 0.0042 -0.0038 -0.0066
-0.0054 -0.0090 -0.0019 0.0108
(49.11%) -0.7008* C 35 s(0.00%)p 1.00(99.97%)d 0.00(0.02%)

					0.0000	-0.0028	-0.0012	-0.0004	-0.0007
					0.5503	-0.0039	0.0071	0.6993	-0.0056
					0.0123	-0.4556	0.0037	-0.0088	0.0026
					0.0080	0.0007	-0.0107	-0.0078	
1533.	(0.01550)	BD*(1) C 34 - H 69							
	(38.99%)	0.6244* C 34	s(28.04%)p 2.56(71.92%)d 0.00(0.03%)						
					0.0004	-0.5294	0.0119	-0.0035	-0.0003
					-0.6523	0.0173	-0.0025	0.1740	-0.0054
					0.0021	-0.5127	0.0149	-0.0043	0.0013
					-0.0134	0.0081	-0.0086	0.0004	
	(61.01%)	-0.7811* H 69	s(99.95%)p 0.00(0.05%)						
					-0.9997	-0.0014	-0.0005	0.0178	-0.0047
					0.0142				
1534.	(0.02305)	BD*(1) C 35 - C 36							
	(50.57%)	0.7111* C 35	s(35.77%)p 1.79(64.16%)d 0.00(0.06%)						
					0.0001	0.5981	-0.0014	-0.0046	-0.0001
					-0.6018	-0.0037	0.0070	0.1453	-0.0067
					-0.0042	-0.5078	-0.0186	0.0049	-0.0082
					0.0202	-0.0033	0.0114	0.0020	
	(49.43%)	-0.7031* C 36	s(34.00%)p 1.94(65.95%)d 0.00(0.05%)						
					-0.0001	0.5830	0.0097	0.0032	0.0001
					0.6250	-0.0061	0.0075	-0.1702	0.0068
					-0.0074	0.4895	0.0045	0.0014	-0.0066
					0.0177	-0.0026	0.0094	0.0028	
1535.	(0.01717)	BD*(1) C 35 - H 68							
	(38.96%)	0.6242* C 35	s(28.21%)p 2.54(71.76%)d 0.00(0.04%)						
					0.0004	-0.5310	0.0105	0.0002	-0.0001
					-0.5693	0.0071	0.0068	0.5878	-0.0130
					-0.0069	0.2180	-0.0083	-0.0055	0.0152
					0.0057	-0.0065	0.0008	0.0073	
	(61.04%)	-0.7813* H 68	s(99.95%)p 0.00(0.05%)						
					-0.9997	0.0019	-0.0015	0.0154	-0.0159
					-0.0066				
1536.	(0.03217)	BD*(1) C 36 - C 39							
	(49.62%)	0.7044* C 36	s(32.18%)p 2.11(67.79%)d 0.00(0.03%)						
					0.0001	-0.5672	0.0067	0.0038	0.0001
					0.0846	0.0002	-0.0016	0.4088	0.0113
					-0.0023	0.7094	0.0143	-0.0049	-0.0009
					-0.0040	-0.0133	0.0031	-0.0101	
	(50.38%)	-0.7098* C 39	s(26.43%)p 2.78(73.51%)d 0.00(0.06%)						
					-0.0001	-0.5141	-0.0010	0.0021	0.0002
					-0.0840	0.0010	-0.0001	-0.4367	-0.0029
					0.0041	-0.7330	0.0018	0.0024	-0.0019
					-0.0031	-0.0177	0.0054	-0.0146	
1537.	(0.01669)	BD*(1) C 37 - C 38							
	(49.23%)	0.7017* C 37	s(26.24%)p 2.81(73.73%)d 0.00(0.04%)						
					0.0001	-0.5120	0.0130	-0.0007	0.0000
					0.2983	0.0144	0.0026	0.1711	0.0027
					-0.0009	-0.7866	0.0000	-0.0023	-0.0018
					0.0100	0.0067	-0.0012	-0.0151	
	(50.77%)	-0.7125* C 38	s(29.30%)p 2.41(70.66%)d 0.00(0.05%)						
					-0.0003	-0.5409	0.0191	0.0022	-0.0001
					-0.3080	-0.0004	0.0074	-0.1553	-0.0041
					0.0026	0.7663	0.0125	-0.0130	-0.0027
					0.0126	0.0067	-0.0021	-0.0157	
1538.	(0.01793)	BD*(1) C 37 - C 55							
	(48.57%)	0.6969* C 37	s(26.40%)p 2.79(73.56%)d 0.00(0.03%)						
					0.0001	-0.5137	0.0103	-0.0015	-0.0001
					-0.3214	0.0052	0.0016	-0.7940	-0.0075
					-0.0068	0.0400	0.0084	-0.0028	-0.0118
					0.0009	0.0010	0.0108	0.0095	
	(51.43%)	-0.7172* C 55	s(28.68%)p 2.48(71.27%)d 0.00(0.05%)						
					-0.0004	-0.5354	0.0131	-0.0008	0.0005
					0.3100	0.0081	-0.0025	0.7838	0.0066
					-0.0090	-0.0450	-0.0031	0.0042	-0.0125
					0.0009	0.0026	0.0133	0.0107	
1539.	(0.02520)	BD*(1) C 37 - H 85							
	(38.85%)	0.6233* C 37	s(20.87%)p 3.79(79.08%)d 0.00(0.05%)						
					-0.0002	0.4564	0.0202	-0.0004	0.0001
					-0.6842	0.0102	-0.0026	-0.0463	0.0035
					0.0031	-0.5659	0.0096	0.0078	0.0018

					0.0195	0.0016	0.0118	0.0025	
	(61.15%)	-0.7820*	H 85	s(99.95%)p 0.00(0.05%)	0.9998	0.0055	0.0003	0.0160	0.0013
					0.0141				
1540.	(0.00720)	BD*(1)	C 38 - H 105						
	(39.14%)	0.6256*	C 38	s(23.26%)p 3.30(76.70%)d 0.00(0.04%)	0.0001	-0.4823	-0.0050	-0.0014	-0.0002
					0.6347	-0.0039	0.0046	-0.5690	0.0053
					0.0016	-0.2004	-0.0007	-0.0077	0.0169
					0.0055	-0.0062	-0.0016	0.0093	
	(60.86%)	-0.7801*	H 105	s(99.96%)p 0.00(0.04%)	-0.9998	-0.0013	-0.0002	-0.0151	0.0144
					0.0031				
1541.	(0.00679)	BD*(1)	C 38 - H 106						
	(39.17%)	0.6258*	C 38	s(23.69%)p 3.22(76.26%)d 0.00(0.04%)	0.0001	-0.4867	-0.0057	-0.0014	0.0001
					0.3371	-0.0018	0.0046	0.8043	-0.0049
					0.0022	-0.0449	-0.0034	-0.0073	-0.0122
					-0.0001	0.0020	0.0124	0.0117	
	(60.83%)	-0.7800*	H 106	s(99.96%)p 0.00(0.04%)	-0.9998	-0.0012	-0.0001	-0.0076	-0.0195
					0.0007				
1542.	(0.01082)	BD*(1)	C 38 - H 107						
	(39.43%)	0.6280*	C 38	s(23.75%)p 3.21(76.20%)d 0.00(0.05%)	0.0000	-0.4873	-0.0061	0.0002	0.0001
					-0.6228	0.0046	0.0024	-0.0677	0.0027
					0.0014	-0.6078	-0.0039	-0.0086	-0.0015
					-0.0190	-0.0026	-0.0083	-0.0042	
	(60.57%)	-0.7782*	H 107	s(99.95%)p 0.00(0.05%)	-0.9998	-0.0023	-0.0002	0.0158	0.0015
					0.0142				
1543.	(0.01773)	BD*(1)	C 39 - C 40						
	(49.31%)	0.7022*	C 39	s(25.93%)p 2.85(74.03%)d 0.00(0.04%)	0.0001	-0.5091	0.0127	-0.0008	0.0000
					0.1679	0.0122	0.0013	0.8291	0.0066
					0.0029	-0.1563	0.0056	0.0017	-0.0059
					0.0010	0.0074	0.0154	0.0076	
	(50.69%)	-0.7120*	C 40	s(29.25%)p 2.42(70.71%)d 0.00(0.05%)	-0.0003	-0.5405	0.0192	0.0027	-0.0001
					-0.1631	-0.0001	0.0048	-0.8120	-0.0118
					0.0144	0.1443	0.0058	-0.0009	-0.0074
					0.0012	0.0062	0.0163	0.0097	
1544.	(0.01637)	BD*(1)	C 39 - C 56						
	(48.43%)	0.6959*	C 39	s(26.76%)p 2.74(73.21%)d 0.00(0.03%)	0.0001	-0.5172	0.0107	-0.0016	-0.0001
					-0.6945	0.0043	-0.0029	-0.0842	-0.0075
					0.0041	0.4924	0.0115	0.0055	-0.0029
					0.0144	0.0013	-0.0107	0.0012	
	(51.57%)	-0.7181*	C 56	s(28.64%)p 2.49(71.31%)d 0.00(0.05%)	-0.0003	-0.5350	0.0137	0.0009	0.0005
					0.6749	0.0104	-0.0077	0.0911	0.0043
					-0.0040	-0.4991	-0.0006	0.0072	-0.0036
					0.0176	0.0028	-0.0117	-0.0006	
1545.	(0.02379)	BD*(1)	C 39 - H 86						
	(38.67%)	0.6218*	C 39	s(20.93%)p 3.78(79.02%)d 0.00(0.05%)	-0.0002	0.4570	0.0204	-0.0005	0.0001
					-0.6937	0.0148	0.0011	0.3371	-0.0045
					-0.0086	-0.4416	0.0045	-0.0041	-0.0119
					0.0152	-0.0071	0.0093	-0.0035	
	(61.33%)	-0.7831*	H 86	s(99.95%)p 0.00(0.05%)	0.9998	0.0050	0.0003	0.0161	-0.0093
					0.0107				
1546.	(0.00750)	BD*(1)	C 40 - H 99						
	(39.13%)	0.6255*	C 40	s(23.33%)p 3.28(76.62%)d 0.00(0.04%)	0.0002	-0.4830	-0.0052	-0.0020	-0.0001
					0.1246	-0.0003	0.0030	0.4299	-0.0014
					0.0085	0.7522	-0.0064	-0.0003	-0.0022
					-0.0044	-0.0157	0.0032	-0.0126	
	(60.87%)	-0.7802*	H 99	s(99.96%)p 0.00(0.04%)	-0.9998	-0.0015	-0.0002	-0.0026	-0.0085
					-0.0190				

1547. (0.01046) BD*(1) C 40 - H 100
(39.41%) 0.6278* C 40 s(23.74%)p 3.21(76.21%)d 0.00(0.05%)
0.0000 -0.4872 -0.0070 0.0002 0.0001
-0.6620 0.0040 0.0009 0.3821 0.0043
0.0090 -0.4216 -0.0002 -0.0023 0.0130
-0.0130 0.0075 -0.0076 0.0021
(60.59%) -0.7784* H 100 s(99.95%)p 0.00(0.05%)
-0.9998 -0.0023 -0.0002 0.0169 -0.0084
0.0106

1548. (0.00695) BD*(1) C 40 - H 101
(39.32%) 0.6271* C 40 s(23.68%)p 3.22(76.28%)d 0.00(0.05%)
-0.0001 0.4866 0.0049 0.0013 -0.0001
-0.7204 0.0044 -0.0028 -0.0929 -0.0021
-0.0090 0.4848 -0.0023 0.0007 0.0031
-0.0160 -0.0020 0.0134 0.0006
(60.68%) -0.7790* H 101 s(99.96%)p 0.00(0.04%)
0.9998 0.0013 0.0001 0.0172 0.0018
-0.0115

1549. (0.02999) BD*(1) C 41 - C 42
(55.48%) 0.7449* C 41 s(37.96%)p 1.30(49.31%)d 0.34(12.73%)
0.0000 -0.6133 -0.0553 -0.0197 -0.0027
0.1738 -0.0779 0.0533 0.3260 0.0165
-0.0382 0.5291 -0.2482 0.0670 -0.1555
0.0408 -0.2973 -0.0180 -0.1130
(44.52%) -0.6672* C 42 s(33.58%)p 1.98(66.37%)d 0.00(0.05%)
0.0000 -0.5794 -0.0030 0.0010 0.0000
-0.1977 -0.0101 0.0001 -0.3551 0.0092
-0.0019 -0.7059 -0.0035 0.0009 -0.0035
-0.0108 -0.0139 0.0024 -0.0147

1550. (0.03084) BD*(1) C 41 - C 46
(56.24%) 0.7499* C 41 s(36.17%)p 1.39(50.23%)d 0.38(13.60%)
-0.0003 0.5978 -0.0609 -0.0258 -0.0025
0.4202 -0.0918 0.0612 -0.3387 0.0307
-0.0408 0.3585 -0.2513 0.0670 -0.1684
0.0685 -0.3050 -0.0176 -0.0983
(43.76%) -0.6615* C 46 s(34.19%)p 1.92(65.76%)d 0.00(0.05%)
0.0000 0.5847 0.0020 -0.0002 0.0001
-0.4969 0.0013 0.0017 0.3954 -0.0085
0.0026 -0.5041 -0.0105 0.0009 -0.0112
0.0162 -0.0106 0.0022 0.0038

1551. (0.37132) BD*(2) C 41 - C 46
(47.25%) 0.6874* C 41 s(0.04%)p99.99(98.66%)d31.71(1.30%)
0.0001 0.0118 -0.0141 -0.0085 -0.0011
-0.8228 -0.0283 0.0244 -0.3815 0.0045
-0.0080 0.3956 -0.0759 0.0186 -0.0462
0.0154 -0.0984 -0.0174 -0.0260
(52.75%) -0.7263* C 46 s(0.00%)p 1.00(99.95%)d 0.00(0.05%)
0.0000 -0.0021 0.0037 -0.0023 0.0000
-0.7900 0.0074 0.0041 -0.4143 0.0014
0.0003 0.4514 -0.0046 0.0002 0.0022
0.0093 0.0084 0.0097 -0.0141

1552. (0.02303) BD*(1) C 42 - C 43
(49.61%) 0.7043* C 42 s(34.02%)p 1.94(65.93%)d 0.00(0.05%)
0.0001 -0.5832 -0.0088 -0.0050 -0.0002
-0.2753 -0.0041 -0.0005 0.7415 -0.0016
0.0070 0.1828 -0.0102 0.0089 0.0136
0.0013 -0.0067 0.0129 0.0084
(50.39%) -0.7099* C 43 s(35.87%)p 1.79(64.06%)d 0.00(0.06%)
-0.0001 -0.5989 0.0004 0.0039 0.0003
0.3007 0.0136 -0.0026 -0.7243 -0.0129
0.0092 -0.1581 0.0100 0.0053 0.0146
0.0012 -0.0090 0.0152 0.0090

1553. (0.33091) BD*(2) C 42 - C 43
(52.17%) 0.7223* C 42 s(0.00%)p 1.00(99.96%)d 0.00(0.04%)
-0.0002 0.0002 -0.0028 0.0010 0.0001
0.8064 -0.0066 0.0027 0.4056 -0.0017
-0.0021 -0.4299 0.0017 -0.0012 -0.0069
-0.0004 0.0089 0.0148 -0.0045
(47.83%) -0.6916* C 43 s(0.00%)p 1.00(99.97%)d 0.00(0.03%)
0.0000 0.0023 0.0003 -0.0005 0.0002
0.7924 -0.0040 0.0130 0.4229 -0.0035

					0.0087	-0.4389	0.0043	-0.0083	0.0107
					0.0088	-0.0018	-0.0073	-0.0083	
1554.	(0.03204)	BD*(1) C 42 - C 47							
	(49.40%)	0.7028* C 42	s(32.37%)	p 2.09(67.60%)	d 0.00(0.03%)				
					0.0001	-0.5689	0.0064	0.0048	0.0002
					0.4840	0.0068	-0.0034	-0.3985	-0.0093
					0.0061	0.5316	0.0132	-0.0034	0.0092
					-0.0114	0.0093	0.0001	-0.0027	
	(50.60%)	-0.7114* C 47	s(26.33%)	p 2.80(73.61%)	d 0.00(0.06%)				
					-0.0002	-0.5132	0.0005	-0.0010	-0.0007
					-0.4936	0.0042	0.0002	0.4257	-0.0009
					0.0034	-0.5579	-0.0015	-0.0008	0.0116
					-0.0157	0.0134	-0.0027	-0.0026	
1555.	(0.01506)	BD*(1) C 43 - C 44							
	(49.93%)	0.7066* C 43	s(35.86%)	p 1.79(64.08%)	d 0.00(0.05%)				
					0.0000	0.5987	0.0137	0.0045	0.0002
					0.4855	0.0113	0.0009	-0.4007	-0.0269
					-0.0107	0.4934	-0.0064	-0.0094	-0.0091
					0.0170	-0.0093	0.0036	0.0064	
	(50.07%)	-0.7076* C 44	s(35.97%)	p 1.78(63.96%)	d 0.00(0.07%)				
					0.0000	0.5997	0.0065	-0.0023	-0.0001
					-0.4876	-0.0109	0.0078	0.3579	-0.0108
					-0.0123	-0.5220	-0.0287	-0.0016	-0.0159
					0.0157	-0.0125	0.0004	-0.0005	
1556.	(0.01779)	BD*(1) C 43 - H 75							
	(38.93%)	0.6239* C 43	s(28.23%)	p 2.54(71.73%)	d 0.00(0.04%)				
					-0.0004	0.5312	-0.0110	-0.0007	0.0001
					-0.2119	0.0050	0.0050	-0.3668	0.0028
					0.0041	-0.7331	0.0148	0.0114	0.0034
					0.0074	0.0121	-0.0022	0.0121	
	(61.07%)	-0.7815* H 75	s(99.94%)	p 0.00(0.06%)					
					0.9997	-0.0021	0.0014	0.0069	0.0098
					0.0202				
1557.	(0.01496)	BD*(1) C 44 - C 45							
	(50.21%)	0.7086* C 44	s(36.00%)	p 1.78(63.94%)	d 0.00(0.07%)				
					0.0000	0.5999	0.0077	-0.0018	-0.0001
					0.2211	0.0194	0.0052	0.3173	-0.0121
					-0.0121	0.6989	0.0237	-0.0060	0.0028
					0.0082	0.0189	-0.0057	0.0138	
	(49.79%)	-0.7056* C 45	s(36.09%)	p 1.77(63.86%)	d 0.00(0.05%)				
					0.0000	0.6005	0.0145	0.0043	0.0000
					-0.1901	0.0105	0.0087	-0.3628	-0.0269
					-0.0111	-0.6854	-0.0074	0.0027	0.0029
					0.0122	0.0110	-0.0004	0.0153	
1558.	(0.33468)	BD*(2) C 44 - C 45							
	(51.09%)	0.7148* C 44	s(0.00%)	p 1.00(99.97%)	d 0.00(0.03%)				
					0.0000	0.0020	0.0000	0.0013	0.0002
					0.7891	-0.0075	0.0086	0.4240	-0.0036
					0.0035	-0.4439	0.0042	-0.0045	0.0088
					0.0092	-0.0004	-0.0054	-0.0083	
	(48.91%)	-0.6994* C 45	s(0.00%)	p 1.00(99.98%)	d 0.00(0.02%)				
					0.0000	0.0006	0.0004	0.0008	0.0003
					0.7888	-0.0079	0.0174	0.4249	-0.0044
					0.0092	-0.4432	0.0044	-0.0094	-0.0024
					-0.0065	-0.0058	-0.0069	0.0101	
1559.	(0.01582)	BD*(1) C 44 - H 74							
	(39.13%)	0.6255* C 44	s(27.98%)	p 2.57(71.99%)	d 0.00(0.03%)				
					-0.0004	0.5288	-0.0120	0.0037	0.0003
					0.2992	-0.0092	0.0021	-0.7682	0.0213
					-0.0037	-0.1992	0.0055	-0.0010	-0.0075
					-0.0069	0.0052	-0.0098	-0.0099	
	(60.87%)	-0.7802* H 74	s(99.95%)	p 0.00(0.05%)					
					0.9997	0.0015	0.0005	-0.0081	0.0208
					0.0056				
1560.	(0.02319)	BD*(1) C 45 - C 46							
	(50.48%)	0.7105* C 45	s(35.81%)	p 1.79(64.13%)	d 0.00(0.06%)				
					0.0001	0.5984	-0.0015	-0.0044	-0.0001
					-0.2685	0.0021	0.0054	0.7226	0.0119
					-0.0097	0.2157	0.0166	-0.0008	-0.0144
					-0.0012	0.0096	-0.0151	-0.0088	
	(49.52%)	-0.7037* C 46	s(33.92%)	p 1.95(66.03%)	d 0.00(0.05%)				

					-0.0001	0.5823	0.0105	0.0032	0.0001
					0.2821	-0.0061	0.0072	-0.7397	0.0039
					-0.0067	-0.1828	-0.0064	0.0029	-0.0123
					-0.0015	0.0091	-0.0133	-0.0076	
1561.	(0.01777)	BD*(1) C 45 - H 73							
	(39.23%)	0.6264* C 45	s(28.08%)p 2.56(71.89%)d 0.00(0.04%)						
					0.0004	-0.5298	0.0108	0.0003	-0.0001
					-0.5182	0.0097	0.0075	0.4053	-0.0025
					-0.0044	-0.5345	0.0133	0.0097	0.0095
					-0.0131	0.0096	-0.0024	-0.0022	
	(60.77%)	-0.7795* H 73	s(99.95%)p 0.00(0.05%)						
					-0.9997	-0.0022	-0.0013	0.0141	-0.0109
					0.0148				
1562.	(0.03202)	BD*(1) C 46 - C 49							
	(49.98%)	0.7070* C 46	s(31.86%)p 2.14(68.11%)d 0.00(0.03%)						
					0.0001	-0.5644	0.0068	0.0036	0.0001
					-0.2210	-0.0078	0.0009	-0.3522	-0.0054
					0.0021	-0.7127	-0.0147	0.0044	-0.0028
					-0.0079	-0.0115	0.0023	-0.0105	
	(50.02%)	-0.7072* C 49	s(26.68%)p 2.75(73.27%)d 0.00(0.06%)						
					-0.0001	-0.5165	-0.0013	0.0016	0.0001
					0.2369	0.0022	-0.0021	0.3571	-0.0024
					-0.0001	0.7410	-0.0012	-0.0030	-0.0047
					-0.0095	-0.0147	0.0019	-0.0149	
1563.	(0.01776)	BD*(1) C 47 - C 48							
	(49.41%)	0.7029* C 47	s(25.46%)p 2.93(74.50%)d 0.00(0.04%)						
					0.0001	-0.5044	0.0108	-0.0010	0.0002
					-0.4860	0.0006	0.0000	-0.4814	-0.0109
					-0.0039	0.5263	0.0032	0.0033	-0.0111
					0.0120	0.0111	-0.0025	-0.0007	
	(50.59%)	-0.7113* C 48	s(29.04%)p 2.44(70.91%)d 0.00(0.04%)						
					-0.0004	-0.5385	0.0197	0.0031	-0.0001
					0.4637	0.0097	-0.0063	0.4668	0.0057
					-0.0107	-0.5252	-0.0065	0.0089	-0.0111
					0.0124	0.0129	0.0003	-0.0017	
1564.	(0.01407)	BD*(1) C 47 - C 57							
	(48.96%)	0.6997* C 47	s(26.39%)p 2.79(73.57%)d 0.00(0.04%)						
					0.0001	-0.5136	0.0115	-0.0020	0.0004
					0.4881	0.0114	0.0033	0.5405	-0.0046
					0.0014	0.4528	-0.0053	0.0020	-0.0124
					-0.0097	-0.0115	0.0027	0.0006	
	(51.04%)	-0.7144* C 57	s(29.01%)p 2.45(70.94%)d 0.00(0.05%)						
					-0.0002	-0.5382	0.0202	0.0029	0.0000
					-0.5103	-0.0053	0.0120	-0.4975	-0.0106
					0.0068	-0.4483	-0.0050	0.0073	-0.0139
					-0.0123	-0.0117	-0.0007	0.0021	
1565.	(0.02568)	BD*(1) C 47 - H 80							
	(36.65%)	0.6054* C 47	s(21.87%)p 3.57(78.08%)d 0.00(0.05%)						
					-0.0001	0.4673	0.0194	-0.0039	0.0000
					-0.5302	0.0013	0.0029	0.5421	-0.0107
					-0.0021	0.4533	-0.0094	-0.0071	-0.0137
					-0.0119	0.0123	-0.0010	-0.0018	
	(63.35%)	-0.7959* H 80	s(99.95%)p 0.00(0.05%)						
					0.9997	-0.0068	0.0009	0.0164	-0.0118
					-0.0100				
1566.	(0.00771)	BD*(1) C 48 - H 126							
	(39.06%)	0.6250* C 48	s(23.30%)p 3.29(76.66%)d 0.00(0.04%)						
					-0.0001	0.4827	0.0059	0.0020	0.0001
					-0.5128	0.0049	0.0032	0.4359	-0.0020
					0.0064	-0.5599	0.0050	-0.0055	-0.0111
					0.0139	-0.0110	0.0012	0.0022	
	(60.94%)	-0.7807* H 126	s(99.96%)p 0.00(0.04%)						
					0.9998	0.0016	0.0002	0.0143	-0.0089
					0.0115				
1567.	(0.00801)	BD*(1) C 48 - H 127							
	(39.33%)	0.6272* C 48	s(24.01%)p 3.16(75.94%)d 0.00(0.05%)						
					0.0000	-0.4899	-0.0038	-0.0015	0.0001
					-0.4783	0.0029	-0.0042	-0.5823	0.0008
					-0.0058	-0.4376	0.0025	0.0072	-0.0126
					-0.0115	-0.0138	0.0024	0.0038	
	(60.67%)	-0.7789* H 127	s(99.96%)p 0.00(0.04%)						

-0.9998 -0.0016 0.0000 0.0094 0.0139
 0.0122
 1568. (0.01041) BD*(1) C 48 - H 128
 (39.57%) 0.6290* C 48 s(23.65%)p 3.23(76.31%)d 0.00(0.05%)
 0.0001 -0.4862 -0.0077 0.0000 0.0000
 -0.5408 -0.0011 -0.0065 0.5023 -0.0043
 -0.0042 0.4672 0.0000 0.0061 0.0135
 0.0111 -0.0119 -0.0021 0.0015
 (60.43%) -0.7774* H 128 s(99.95%)p 0.00(0.05%)
 -0.9998 -0.0023 -0.0002 0.0126 -0.0141
 -0.0110
 1569. (0.01781) BD*(1) C 49 - C 50
 (49.31%) 0.7022* C 49 s(25.91%)p 2.86(74.05%)d 0.00(0.04%)
 0.0001 -0.5089 0.0121 -0.0007 0.0000
 -0.8477 -0.0045 -0.0039 -0.1466 -0.0136
 -0.0017 -0.0129 -0.0021 -0.0017 -0.0045
 0.0004 -0.0006 -0.0162 0.0095
 (50.69%) -0.7120* C 50 s(29.25%)p 2.42(70.71%)d 0.00(0.05%)
 -0.0003 -0.5405 0.0189 0.0035 -0.0001
 0.8273 0.0121 -0.0145 0.1479 -0.0011
 -0.0049 0.0197 -0.0025 -0.0008 -0.0068
 -0.0005 -0.0002 -0.0170 0.0107
 1570. (0.01742) BD*(1) C 49 - C 58
 (48.94%) 0.6996* C 49 s(26.33%)p 2.80(73.64%)d 0.00(0.04%)
 0.0001 -0.5130 0.0114 -0.0010 -0.0001
 0.2341 0.0099 -0.0001 0.4865 -0.0074
 0.0017 -0.6668 -0.0074 -0.0067 -0.0055
 0.0063 0.0149 0.0048 -0.0069
 (51.06%) -0.7146* C 58 s(29.00%)p 2.45(70.96%)d 0.00(0.05%)
 -0.0003 -0.5383 0.0139 -0.0007 0.0004
 -0.2375 -0.0047 0.0061 -0.4655 -0.0082
 0.0040 0.6605 0.0035 -0.0083 -0.0059
 0.0087 0.0158 0.0042 -0.0090
 1571. (0.02452) BD*(1) C 49 - H 79
 (38.53%) 0.6207* C 49 s(21.13%)p 3.73(78.82%)d 0.00(0.05%)
 0.0002 -0.4592 -0.0199 0.0003 -0.0001
 0.4117 -0.0059 -0.0063 -0.7829 0.0133
 0.0022 -0.0741 -0.0010 -0.0059 0.0162
 0.0014 -0.0028 0.0113 0.0113
 (61.47%) -0.7840* H 79 s(99.95%)p 0.00(0.05%)
 -0.9998 -0.0054 -0.0001 -0.0108 0.0183
 0.0007
 1572. (0.00762) BD*(1) C 50 - H 129
 (39.26%) 0.6266* C 50 s(23.28%)p 3.29(76.68%)d 0.00(0.04%)
 0.0001 -0.4824 -0.0052 -0.0022 -0.0001
 -0.2253 -0.0008 -0.0084 -0.4023 0.0020
 -0.0031 -0.7444 0.0062 -0.0012 -0.0041
 -0.0082 -0.0138 0.0034 -0.0125
 (60.74%) -0.7793* H 129 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0015 -0.0002 0.0034 0.0096
 0.0183
 1573. (0.01064) BD*(1) C 50 - H 130
 (39.42%) 0.6279* C 50 s(23.73%)p 3.21(76.22%)d 0.00(0.05%)
 0.0000 -0.4871 -0.0069 -0.0001 0.0001
 -0.4523 -0.0047 -0.0092 0.7450 -0.0039
 -0.0006 0.0499 0.0012 0.0002 0.0169
 0.0011 -0.0018 0.0089 0.0092
 (60.58%) -0.7783* H 130 s(99.95%)p 0.00(0.05%)
 -0.9998 -0.0023 -0.0002 0.0099 -0.0191
 -0.0016
 1574. (0.00691) BD*(1) C 50 - H 131
 (39.19%) 0.6260* C 50 s(23.75%)p 3.21(76.21%)d 0.00(0.05%)
 0.0001 -0.4873 -0.0045 -0.0015 0.0001
 -0.2428 -0.0013 -0.0091 -0.5105 0.0030
 -0.0027 0.6651 -0.0042 -0.0005 -0.0055
 0.0083 0.0156 0.0064 -0.0086
 (60.81%) -0.7798* H 131 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0013 -0.0001 0.0050 0.0122
 -0.0157
 1575. (0.01736) BD*(1) C 51 - C 52
 (49.30%) 0.7022* C 51 s(25.89%)p 2.86(74.08%)d 0.00(0.04%)

				0.0001	-0.5087	0.0118	-0.0006	0.0000
				-0.5288	-0.0133	-0.0036	-0.6263	-0.0001
				-0.0006	-0.2621	0.0059	-0.0016	-0.0145
				-0.0063	-0.0076	0.0037	0.0071	
	(50.70%)	-0.7120*	C 52	s(29.26%)	p 2.42(70.70%)	d 0.00(0.04%)		
				-0.0003	-0.5406	0.0187	0.0032	-0.0001
				0.5262	0.0040	-0.0109	0.6035	0.0111
				-0.0100	0.2560	0.0041	-0.0035	-0.0166
				-0.0066	-0.0077	0.0022	0.0079	
1576.	(0.01808)	BD*(1)	C 51 - C 59					
	(48.98%)	0.6999*	C 51	s(26.38%)	p 2.79(73.58%)	d 0.00(0.04%)		
				0.0001	-0.5135	0.0118	-0.0012	0.0000
				0.2026	-0.0029	-0.0020	0.5190	0.0130
				0.0038	-0.6521	0.0027	-0.0054	-0.0049
				0.0062	0.0148	0.0042	-0.0073	
	(51.02%)	-0.7143*	C 59	s(28.97%)	p 2.45(70.99%)	d 0.00(0.05%)		
				-0.0003	-0.5379	0.0183	0.0028	-0.0001
				-0.1861	-0.0069	0.0027	-0.5215	-0.0055
				0.0103	0.6348	0.0075	-0.0083	-0.0053
				0.0064	0.0175	0.0064	-0.0071	
1577.	(0.02484)	BD*(1)	C 51 - H 81					
	(38.55%)	0.6209*	C 51	s(21.11%)	p 3.73(78.83%)	d 0.00(0.05%)		
				0.0002	-0.4591	-0.0199	0.0002	-0.0001
				-0.4307	0.0066	-0.0046	0.4807	-0.0063
				-0.0017	0.6095	-0.0112	-0.0073	0.0105
				0.0134	-0.0148	0.0009	-0.0047	
	(61.45%)	-0.7839*	H 81	s(99.95%)	p 0.00(0.05%)			
				-0.9998	-0.0053	-0.0003	0.0094	-0.0114
				-0.0157				
1578.	(0.00758)	BD*(1)	C 52 - H 114					
	(39.27%)	0.6266*	C 52	s(23.27%)	p 3.30(76.69%)	d 0.00(0.04%)		
				0.0001	-0.4824	-0.0049	-0.0019	-0.0002
				-0.7336	0.0036	-0.0070	0.3472	-0.0045
				-0.0056	-0.3286	0.0026	-0.0021	0.0125
				-0.0111	0.0057	-0.0102	0.0053	
	(60.73%)	-0.7793*	H 114	s(99.96%)	p 0.00(0.04%)			
				-0.9998	-0.0015	-0.0002	0.0170	-0.0101
				0.0074				
1579.	(0.00682)	BD*(1)	C 52 - H 115					
	(39.16%)	0.6258*	C 52	s(23.73%)	p 3.21(76.23%)	d 0.00(0.05%)		
				0.0001	-0.4871	-0.0049	-0.0015	0.0001
				-0.2238	0.0001	-0.0067	-0.5221	0.0009
				-0.0061	0.6629	-0.0057	-0.0021	-0.0040
				0.0078	0.0171	0.0052	-0.0073	
	(60.84%)	-0.7800*	H 115	s(99.96%)	p 0.00(0.04%)			
				-0.9998	-0.0012	-0.0001	0.0049	0.0122
				-0.0160				
1580.	(0.01069)	BD*(1)	C 52 - H 116					
	(39.42%)	0.6279*	C 52	s(23.74%)	p 3.21(76.21%)	d 0.00(0.05%)		
				0.0000	-0.4872	-0.0066	-0.0001	0.0001
				0.3660	-0.0049	-0.0048	-0.4916	-0.0039
				-0.0069	-0.6215	0.0014	-0.0034	0.0098
				0.0107	-0.0141	0.0030	-0.0062	
	(60.58%)	-0.7783*	H 116	s(99.95%)	p 0.00(0.05%)			
				-0.9998	-0.0023	-0.0002	-0.0102	0.0118
				0.0149				
1581.	(0.01793)	BD*(1)	C 53 - C 54					
	(49.47%)	0.7033*	C 53	s(25.43%)	p 2.93(74.53%)	d 0.00(0.04%)		
				0.0001	-0.5041	0.0116	-0.0012	0.0002
				-0.4120	-0.0070	-0.0017	-0.6126	0.0008
				-0.0013	0.4473	0.0101	0.0040	-0.0131
				0.0073	0.0118	0.0058	0.0031	
	(50.53%)	-0.7109*	C 54	s(29.16%)	p 2.43(70.79%)	d 0.00(0.04%)		
				-0.0004	-0.5397	0.0197	0.0026	-0.0001
				0.3913	0.0065	-0.0080	0.5986	0.0106
				-0.0085	-0.4428	-0.0038	0.0097	-0.0122
				0.0092	0.0136	0.0052	0.0016	
1582.	(0.01440)	BD*(1)	C 53 - C 60					
	(48.77%)	0.6984*	C 53	s(26.68%)	p 2.75(73.28%)	d 0.00(0.04%)		
				0.0001	-0.5164	0.0111	-0.0030	0.0003
				0.8357	-0.0002	0.0037	-0.0020	0.0130

					0.0010	0.1850	0.0039	0.0027	0.0012
					-0.0066	0.0012	-0.0163	0.0085	
	(51.23%)	-0.7158*	C 60	s(28.89%)p 2.46(71.06%)d 0.00(0.05%)	-0.0002	-0.5372	0.0153	0.0008	0.0003
					-0.8143	-0.0103	0.0109	-0.0251	0.0000
					0.0036	-0.2162	0.0030	0.0031	-0.0017
					-0.0094	-0.0008	-0.0178	0.0091	
1583.	(0.02457)	BD*(1)	C 53 - H 82						
	(37.16%)	0.6096*	C 53	s(21.59%)p 3.63(78.36%)d 0.00(0.05%)	-0.0002	0.4642	0.0196	-0.0045	-0.0001
					0.3373	-0.0117	-0.0022	-0.7826	0.0088
					0.0066	-0.2390	0.0015	-0.0035	-0.0136
					-0.0042	0.0084	-0.0116	-0.0090	
	(62.84%)	-0.7927*	H 82	s(99.95%)p 0.00(0.05%)	0.9997	-0.0062	0.0008	-0.0052	0.0204
					0.0064				
1584.	(0.00781)	BD*(1)	C 54 - H 117						
	(39.09%)	0.6252*	C 54	s(23.30%)p 3.29(76.66%)d 0.00(0.04%)	-0.0002	0.4826	0.0057	0.0020	0.0001
					-0.1218	0.0024	0.0046	-0.1206	0.0013
					0.0045	-0.8585	0.0068	-0.0062	-0.0001
					0.0048	0.0054	0.0005	0.0198	
	(60.91%)	-0.7804*	H 117	s(99.96%)p 0.00(0.04%)	0.9998	0.0016	0.0002	0.0044	0.0051
					0.0192				
1585.	(0.01050)	BD*(1)	C 54 - H 118						
	(39.53%)	0.6287*	C 54	s(23.65%)p 3.23(76.30%)d 0.00(0.05%)	0.0000	-0.4863	-0.0077	0.0003	0.0000
					0.3074	-0.0038	-0.0041	-0.7912	-0.0001
					-0.0079	-0.2058	0.0023	0.0041	0.0116
					0.0016	-0.0086	0.0127	0.0087	
	(60.47%)	-0.7777*	H 118	s(99.95%)p 0.00(0.05%)	-0.9998	-0.0024	-0.0002	-0.0090	0.0189
					0.0062				
1586.	(0.00765)	BD*(1)	C 54 - H 119						
	(39.46%)	0.6282*	C 54	s(23.89%)p 3.18(76.06%)d 0.00(0.05%)	0.0000	-0.4887	-0.0041	-0.0013	0.0001
					-0.8584	0.0030	-0.0039	0.0069	0.0003
					-0.0068	-0.1538	0.0025	0.0064	0.0010
					-0.0071	-0.0021	-0.0185	0.0098	
	(60.54%)	-0.7781*	H 119	s(99.96%)p 0.00(0.04%)	-0.9998	-0.0015	0.0000	0.0201	-0.0025
					0.0038				
1587.	(0.00767)	BD*(1)	C 55 - H 108						
	(39.32%)	0.6271*	C 55	s(23.12%)p 3.32(76.84%)d 0.00(0.04%)	0.0002	-0.4808	-0.0082	-0.0040	-0.0002
					0.6195	-0.0084	0.0010	-0.5849	0.0036
					-0.0137	-0.2050	0.0088	-0.0044	0.0172
					0.0052	-0.0061	-0.0019	0.0080	
	(60.68%)	-0.7790*	H 108	s(99.96%)p 0.00(0.04%)	-0.9998	-0.0014	-0.0004	-0.0156	0.0129
					0.0053				
1588.	(0.01032)	BD*(1)	C 55 - H 109						
	(39.46%)	0.6281*	C 55	s(23.70%)p 3.22(76.26%)d 0.00(0.04%)	0.0000	-0.4867	-0.0104	-0.0020	0.0001
					-0.6609	-0.0017	-0.0052	-0.1029	-0.0056
					-0.0091	-0.5612	0.0090	-0.0058	-0.0022
					-0.0172	-0.0035	-0.0106	-0.0021	
	(60.54%)	-0.7781*	H 109	s(99.95%)p 0.00(0.05%)	-0.9998	-0.0022	-0.0005	0.0161	0.0015
					0.0143				
1589.	(0.00695)	BD*(1)	C 55 - H 110						
	(37.83%)	0.6151*	C 55	s(24.50%)p 3.08(75.45%)d 0.00(0.05%)	0.0001	-0.4949	0.0072	0.0057	-0.0004
					-0.2873	-0.0032	0.0034	-0.1782	-0.0096
					-0.0006	0.7999	0.0022	-0.0116	-0.0025
					0.0118	0.0074	-0.0015	-0.0174	
	(62.17%)	-0.7885*	H 110	s(99.96%)p 0.00(0.04%)	-0.9998	-0.0013	-0.0005	0.0067	0.0041
					-0.0190				
1590.	(0.00705)	BD*(1)	C 56 - H 102						

(39.21%) 0.6262* C 56 s(23.09%)p 3.33(76.87%)d 0.00(0.04%)
-0.0001 0.4804 0.0089 -0.0041 0.0003
-0.1249 0.0045 0.0059 -0.4190 0.0112
-0.0062 -0.7598 0.0050 -0.0113 0.0016
0.0052 0.0150 -0.0034 0.0124

(60.79%) -0.7796* H 102 s(99.96%)p 0.00(0.04%)
0.9998 0.0012 0.0004 0.0046 0.0103
0.0177

1591. (0.00748) BD*(1) C 56 - H 103
(37.69%) 0.6139* C 56 s(24.65%)p 3.05(75.30%)d 0.00(0.05%)
0.0001 -0.4964 0.0083 -0.0062 -0.0004
-0.1525 -0.0073 0.0016 -0.8364 -0.0016
0.0132 0.1727 0.0074 -0.0005 -0.0066
0.0012 0.0073 0.0176 0.0098

(62.31%) -0.7894* H 103 s(99.96%)p 0.00(0.04%)
-0.9998 -0.0011 -0.0006 0.0026 0.0199
-0.0040

1592. (0.01059) BD*(1) C 56 - H 104
(39.63%) 0.6295* C 56 s(23.63%)p 3.23(76.33%)d 0.00(0.04%)
0.0000 -0.4860 -0.0113 0.0023 0.0002
-0.7103 -0.0046 -0.0105 0.3397 -0.0091
0.0063 -0.3781 0.0071 0.0016 0.0117
-0.0129 0.0048 -0.0092 0.0039

(60.37%) -0.7770* H 104 s(99.95%)p 0.00(0.05%)
-0.9998 -0.0021 -0.0004 0.0171 -0.0087
0.0098

1593. (0.00670) BD*(1) C 57 - H 123
(38.50%) 0.6205* C 57 s(23.50%)p 3.25(76.46%)d 0.00(0.04%)
-0.0001 0.4847 0.0041 0.0020 0.0001
-0.5723 -0.0021 -0.0032 0.4761 -0.0065
-0.0046 -0.4584 0.0106 -0.0079 -0.0142
0.0113 -0.0100 0.0025 -0.0011

(61.50%) -0.7842* H 123 s(99.96%)p 0.00(0.04%)
0.9998 0.0012 0.0004 0.0127 -0.0134
0.0083

1594. (0.01162) BD*(1) C 57 - H 124
(40.02%) 0.6326* C 57 s(23.56%)p 3.24(76.39%)d 0.00(0.04%)
0.0000 0.4854 0.0081 0.0006 0.0002
0.4578 -0.0030 -0.0070 -0.4864 -0.0027
-0.0058 -0.5635 -0.0010 -0.0083 -0.0117
-0.0125 0.0117 -0.0013 0.0034

(59.98%) -0.7745* H 124 s(99.95%)p 0.00(0.05%)
0.9998 0.0023 0.0003 -0.0119 0.0110
0.0138

1595. (0.00660) BD*(1) C 57 - H 125
(38.70%) 0.6221* C 57 s(23.93%)p 3.18(76.03%)d 0.00(0.05%)
-0.0001 0.4891 0.0053 0.0007 -0.0002
-0.4490 -0.0059 -0.0027 -0.5368 0.0079
-0.0076 0.5200 -0.0042 -0.0040 0.0100
-0.0131 -0.0132 -0.0020 0.0001

(61.30%) -0.7829* H 125 s(99.96%)p 0.00(0.04%)
0.9998 0.0011 0.0002 0.0108 0.0112
-0.0135

1596. (0.00758) BD*(1) C 58 - H 132
(39.36%) 0.6274* C 58 s(23.09%)p 3.33(76.87%)d 0.00(0.04%)
0.0001 -0.4804 -0.0080 -0.0036 -0.0002
-0.2234 0.0081 -0.0016 -0.3950 0.0048
0.0023 -0.7500 0.0068 -0.0126 -0.0032
-0.0085 -0.0141 0.0025 -0.0120

(60.64%) -0.7787* H 132 s(99.96%)p 0.00(0.04%)
-0.9998 -0.0014 -0.0004 0.0059 0.0111
0.0167

1597. (0.00692) BD*(1) C 58 - H 133
(38.18%) 0.6179* C 58 s(24.40%)p 3.10(75.55%)d 0.00(0.05%)
-0.0001 0.4939 -0.0070 -0.0052 0.0004
-0.8601 -0.0056 0.0119 -0.1241 -0.0047
0.0003 0.0054 0.0077 0.0028 0.0057
-0.0005 0.0003 0.0187 -0.0115

(61.82%) -0.7863* H 133 s(99.96%)p 0.00(0.04%)
0.9998 0.0014 0.0005 0.0201 0.0021
0.0004

1598. (0.01074) BD*(1) C 58 - H 134
(39.69%) 0.6300* C 58 s(23.52%)p 3.25(76.43%)d 0.00(0.04%)
0.0000 0.4849 0.0112 0.0019 -0.0002
0.3910 -0.0078 0.0021 -0.7816 0.0017
-0.0107 -0.0156 0.0035 0.0073 -0.0146
0.0010 0.0014 -0.0108 -0.0106
(60.31%) -0.7766* H 134 s(99.95%)p 0.00(0.05%)
0.9998 0.0022 0.0004 -0.0102 0.0189
0.0016

1599. (0.00771) BD*(1) C 59 - H 111
(39.41%) 0.6278* C 59 s(23.12%)p 3.32(76.83%)d 0.00(0.04%)
0.0001 -0.4808 -0.0062 -0.0028 -0.0002
-0.7326 0.0062 0.0007 0.3229 0.0010
0.0064 -0.3567 0.0033 -0.0094 0.0117
-0.0122 0.0040 -0.0104 0.0051
(60.59%) -0.7784* H 111 s(99.96%)p 0.00(0.04%)
-0.9998 -0.0015 -0.0003 0.0185 -0.0068
0.0076

1600. (0.01068) BD*(1) C 59 - H 112
(39.58%) 0.6291* C 59 s(23.63%)p 3.23(76.33%)d 0.00(0.04%)
0.0000 -0.4861 -0.0067 -0.0010 0.0000
0.4396 0.0039 0.0004 -0.4197 0.0069
0.0036 -0.6274 -0.0004 -0.0087 0.0091
0.0121 -0.0129 -0.0015 -0.0056
(60.42%) -0.7773* H 112 s(99.95%)p 0.00(0.05%)
-0.9998 -0.0022 -0.0004 -0.0106 0.0117
0.0148

1601. (0.00685) BD*(1) C 59 - H 113
(38.27%) 0.6186* C 59 s(24.28%)p 3.12(75.68%)d 0.00(0.05%)
-0.0001 0.4927 0.0030 -0.0004 -0.0002
-0.4846 -0.0001 0.0024 -0.6685 0.0025
-0.0050 -0.2739 0.0040 0.0062 0.0150
0.0067 0.0093 -0.0044 -0.0090
(61.73%) -0.7857* H 113 s(99.96%)p 0.00(0.04%)
0.9998 0.0012 -0.0001 0.0108 0.0140
0.0087

1602. (0.00651) BD*(1) C 60 - H 120
(38.58%) 0.6211* C 60 s(23.28%)p 3.29(76.67%)d 0.00(0.04%)
-0.0001 0.4824 0.0097 0.0039 0.0000
-0.0866 -0.0017 -0.0098 -0.1992 -0.0066
0.0015 -0.8480 0.0147 -0.0107 -0.0006
0.0031 0.0079 -0.0023 0.0189
(61.42%) -0.7837* H 120 s(99.96%)p 0.00(0.04%)
0.9998 0.0010 0.0004 -0.0003 0.0066
0.0194

1603. (0.00663) BD*(1) C 60 - H 121
(38.24%) 0.6184* C 60 s(24.34%)p 3.11(75.61%)d 0.00(0.05%)
0.0001 -0.4933 0.0075 0.0046 -0.0002
0.4301 0.0099 -0.0043 0.5960 0.0072
-0.0087 -0.4643 0.0061 0.0081 -0.0134
0.0108 0.0142 0.0045 0.0019
(61.76%) -0.7859* H 121 s(99.96%)p 0.00(0.04%)
-0.9998 -0.0011 -0.0005 -0.0084 -0.0155
0.0093

1604. (0.01163) BD*(1) C 60 - H 122
(40.17%) 0.6338* C 60 s(23.50%)p 3.25(76.46%)d 0.00(0.04%)
0.0000 -0.4846 -0.0110 -0.0022 -0.0001
0.3784 0.0047 0.0115 -0.7770 0.0058
-0.0074 -0.1321 -0.0001 0.0044 0.0143
0.0025 -0.0044 0.0116 0.0083
(59.83%) -0.7735* H 122 s(99.95%)p 0.00(0.05%)
-0.9998 -0.0022 -0.0004 -0.0079 0.0195
0.0032

1605. (0.00764) BD*(1) C 61 - H 96
(39.38%) 0.6276* C 61 s(23.12%)p 3.32(76.84%)d 0.00(0.04%)
0.0001 -0.4807 -0.0079 -0.0038 -0.0002
0.0046 -0.0065 -0.0014 -0.2164 0.0009
-0.0106 -0.8493 0.0096 -0.0083 0.0013
0.0001 -0.0080 0.0012 -0.0189
(60.62%) -0.7786* H 96 s(99.96%)p 0.00(0.04%)
-0.9998 -0.0014 -0.0004 -0.0009 0.0037

0.0205

1606. (0.00685) BD*(1) C 61 - H 97
 (38.03%) 0.6167* C 61 s(24.44%)p 3.09(75.51%)d 0.00(0.05%)
 0.0001 -0.4943 0.0071 0.0055 -0.0004
 -0.8263 -0.0065 0.0111 0.0357 -0.0087
 -0.0030 0.2660 -0.0016 -0.0048 0.0014
 0.0112 -0.0003 -0.0177 0.0078
 (61.97%) -0.7872* H 97 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0014 -0.0005 0.0195 -0.0012
 -0.0061

1607. (0.01033) BD*(1) C 61 - H 98
 (39.51%) 0.6286* C 61 s(23.60%)p 3.24(76.36%)d 0.00(0.04%)
 0.0000 -0.4857 -0.0110 -0.0019 0.0002
 0.4043 -0.0101 0.0012 -0.6376 -0.0009
 -0.0127 0.4397 -0.0012 0.0006 0.0130
 -0.0080 0.0128 0.0059 0.0014
 (60.49%) -0.7777* H 98 s(99.95%)p 0.00(0.05%)
 -0.9998 -0.0021 -0.0003 -0.0107 0.0148
 -0.0114

1608. (0.00677) BD*(1) C 62 - H 87
 (39.38%) 0.6276* C 62 s(22.95%)p 3.36(77.01%)d 0.00(0.04%)
 0.0001 -0.4790 -0.0048 -0.0031 -0.0001
 -0.4665 -0.0025 -0.0026 0.7245 -0.0094
 0.0016 0.1651 0.0002 0.0088 0.0160
 0.0020 -0.0059 0.0077 0.0091
 (60.62%) -0.7786* H 87 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0010 -0.0004 0.0104 -0.0174
 -0.0020

1609. (0.01126) BD*(1) C 62 - H 88
 (39.97%) 0.6322* C 62 s(23.44%)p 3.26(76.52%)d 0.00(0.05%)
 0.0000 -0.4841 -0.0073 -0.0009 -0.0001
 0.6110 -0.0038 -0.0039 -0.0685 -0.0033
 0.0011 0.6221 0.0039 0.0118 0.0025
 -0.0190 0.0006 -0.0079 -0.0045
 (60.03%) -0.7748* H 88 s(99.96%)p 0.00(0.04%)
 -0.9998 -0.0022 -0.0003 -0.0154 0.0015
 -0.0145

1610. (0.00967) BD*(1) C 62 - H 89
 (36.82%) 0.6068* C 62 s(25.12%)p 2.98(74.84%)d 0.00(0.05%)
 0.0001 -0.5011 -0.0065 0.0008 0.0002
 -0.5279 -0.0010 -0.0013 -0.6832 0.0088
 -0.0011 0.0533 -0.0011 0.0090 -0.0174
 -0.0007 0.0019 0.0040 0.0120
 (63.18%) -0.7948* H 89 s(99.95%)p 0.00(0.05%)
 -0.9997 -0.0022 0.0000 0.0130 0.0184
 0.0042

NHO Directionality and "Bond Bending" (deviations from line of nuclear centers)

[Thresholds for printing: angular deviation > 1.0 degree]
 hybrid p-character > 25.0%
 orbital occupancy > 0.10e

NBO	Line of Centers		Hybrid 1			Hybrid 2		
	Theta	Phi	Theta	Phi	Dev	Theta	Phi	Dev
1. BD (1) C 1 - O 2	161.8	128.3	160.9	122.8	2.0	17.4	316.1	2.5
2. BD (2) C 1 - O 2	161.8	128.3	108.0	286.0	88.9	105.8	284.2	89.2
3. BD (1) C 1 - B 14	46.2	4.9	71.1	10.8	25.4	153.5	176.6	20.2
4. BD (1) C 1 - B 15	24.7	247.1	50.6	211.4	33.0	159.6	128.4	22.8
5. BD (1) C 3 - C 4	63.0	330.8	64.0	330.1	1.2	--	--	--
6. BD (1) C 3 - C 8	56.4	133.5	57.6	133.9	1.2	125.8	312.7	2.4
7. BD (2) C 3 - C 8	56.4	133.5	77.0	233.3	90.8	104.1	53.2	90.0
8. BD (1) C 3 - C 53	167.9	215.3	166.7	216.9	1.2	10.9	38.0	1.3
9. BD (1) C 4 - C 5	16.8	36.9	--	--	--	163.4	221.3	1.3
10. BD (2) C 4 - C 5	16.8	36.9	75.1	234.4	91.2	73.2	235.0	90.8
11. BD (1) C 4 - N 9	122.0	315.1	--	--	--	59.9	135.9	2.0
12. BD (1) C 5 - C 6	58.7	134.7	57.6	133.9	1.2	118.9	315.7	2.5
13. BD (1) C 5 - C 51	64.3	334.6	64.5	333.3	1.2	--	--	--

14.	BD	(	1)	C	6	-	C	7	115.5	151.6	110.8	150.7	4.7	59.9	332.6	4.7
15.	BD	(	2)	C	6	-	C	7	115.5	151.6	105.4	54.6	89.5	104.9	53.9	89.7
17.	BD	(	1)	C	7	-	C	8	164.9	219.8	163.0	204.9	4.5	14.3	57.0	4.4
20.	BD	(	1)	N	9	-	C	10	96.6	263.2	96.3	259.4	3.8	81.9	87.8	4.8
21.	BD	(	2)	N	9	-	C	10	96.6	263.2	149.3	156.8	92.6	27.0	339.4	90.3
22.	BD	(	1)	N	9	-	C	13	112.1	18.8	110.9	22.1	3.2	66.7	192.0	6.4
23.	BD	(	1)	C	10	-	N	11	117.3	341.4	118.4	335.3	5.5	63.9	165.8	4.1
24.	BD	(	1)	C	10	-	B	14	82.6	211.6	75.4	215.3	8.0	90.0	27.9	8.3
25.	BD	(	1)	N	11	-	C	12	98.8	52.6	99.3	49.4	3.2	83.8	238.4	6.3
26.	BD	(	1)	N	11	-	C	41	102.0	287.1	103.4	285.3	2.3	79.3	109.1	2.4
27.	BD	(	2)	N	11	-	C	41	102.0	287.1	154.5	162.9	92.8	14.9	352.2	84.5
28.	BD	(	1)	C	12	-	C	13	68.8	119.8	72.1	109.9	9.9	114.1	310.0	9.9
29.	BD	(	2)	C	12	-	C	13	68.8	119.8	152.7	161.1	90.0	152.7	160.8	90.0
30.	BD	(	1)	C	12	-	H	71	116.6	353.3	116.6	354.9	1.4	--	--	--
31.	BD	(	1)	C	13	-	H	72	88.4	73.7	89.1	72.6	1.3	--	--	--
32.	BD	(	1)	B	14	-	B	15	81.2	205.6	46.3	226.0	39.1	67.8	13.8	33.1
33.	BD	(	1)	B	15	-	C	16	63.9	215.9	60.0	215.7	3.9	112.6	36.8	3.6
34.	BD	(	1)	C	16	-	N	17	107.2	182.2	111.5	179.6	4.9	76.4	3.4	3.8
35.	BD	(	2)	C	16	-	N	17	107.2	182.2	49.5	107.9	89.7	133.0	286.0	92.1
36.	BD	(	1)	C	16	-	N	20	42.0	273.8	41.6	282.0	5.5	137.9	88.7	3.4
37.	BD	(	1)	N	17	-	C	18	57.1	232.0	58.7	228.5	3.3	126.5	58.5	6.5
38.	BD	(	1)	N	17	-	C	21	133.3	126.1	134.7	125.7	1.4	47.1	307.7	1.3
39.	BD	(	1)	C	18	-	C	19	48.9	327.4	45.1	314.5	10.2	126.0	158.8	10.2
40.	BD	(	2)	C	18	-	C	19	48.9	327.4	131.8	287.7	90.3	131.5	288.3	90.2
41.	BD	(	1)	C	18	-	H	63	99.0	189.3	98.0	190.4	1.5	--	--	--
42.	BD	(	1)	C	19	-	N	20	98.6	25.8	93.8	21.2	6.6	79.0	208.0	3.3
43.	BD	(	1)	C	19	-	H	64	45.5	259.2	46.1	257.3	1.5	--	--	--
44.	BD	(	1)	N	20	-	C	31	54.3	346.8	56.2	345.7	2.1	126.5	166.0	1.0
45.	BD	(	1)	C	21	-	C	22	163.2	270.9	162.1	271.3	1.1	15.4	89.6	1.4
46.	BD	(	1)	C	21	-	C	26	71.6	119.4	70.5	119.6	1.2	106.8	299.2	1.6
47.	BD	(	2)	C	21	-	C	26	71.6	119.4	97.5	30.6	91.2	98.0	32.4	90.3
48.	BD	(	1)	C	22	-	C	23	130.9	129.4	132.2	130.0	1.4	51.3	308.8	2.3
49.	BD	(	2)	C	22	-	C	23	130.9	129.4	98.3	30.7	91.1	98.4	31.9	89.9
51.	BD	(	1)	C	23	-	C	24	73.0	119.3	77.4	120.0	4.4	111.4	298.5	4.5
53.	BD	(	1)	C	24	-	C	25	15.5	89.1	19.5	97.3	4.6	167.9	256.1	4.6
54.	BD	(	2)	C	24	-	C	25	15.5	89.1	98.4	31.8	89.9	81.3	211.8	90.2
56.	BD	(	1)	C	25	-	C	26	46.6	310.1	44.2	310.8	2.4	132.1	129.8	1.3
59.	BD	(	1)	C	27	-	C	28	88.0	229.5	87.2	230.2	1.0	--	--	--
71.	BD	(	1)	C	31	-	C	32	29.4	82.3	--	--	--	150.9	259.7	1.3
72.	BD	(	1)	C	31	-	C	36	106.5	313.2	--	--	--	74.8	133.6	1.3
73.	BD	(	2)	C	31	-	C	36	106.5	313.2	117.3	53.8	91.5	117.8	51.0	91.0
74.	BD	(	1)	C	32	-	C	33	53.9	344.5	52.8	345.2	1.3	124.0	162.8	2.5
75.	BD	(	2)	C	32	-	C	33	53.9	344.5	116.0	53.7	90.1	116.8	53.0	89.9
77.	BD	(	1)	C	33	-	C	34	105.5	314.3	101.7	316.9	4.5	70.6	131.8	4.5
79.	BD	(	1)	C	34	-	C	35	150.2	258.8	148.1	266.5	4.5	28.2	70.2	4.5
80.	BD	(	2)	C	34	-	C	35	150.2	258.8	62.9	232.3	89.9	62.8	231.9	89.9
82.	BD	(	1)	C	35	-	C	36	128.4	165.6	130.4	167.3	2.4	52.7	344.8	1.3
97.	BD	(	1)	C	41	-	C	42	150.7	237.0	135.8	243.9	15.5	29.8	59.2	1.2
98.	BD	(	1)	C	41	-	C	46	49.7	322.6	71.6	318.2	22.2	129.2	141.7	1.2
99.	BD	(	2)	C	41	-	C	46	49.7	322.6	110.4	25.0	83.8	63.1	207.9	90.5
100.	BD	(	1)	C	42	-	C	43	102.1	291.6	102.8	290.5	1.3	79.8	113.2	2.4
101.	BD	(	2)	C	42	-	C	43	102.1	291.6	64.4	206.6	90.8	116.0	28.1	89.6
103.	BD	(	1)	C	43	-	C	44	50.7	322.0	54.2	318.6	4.4	132.9	145.7	4.6
105.	BD	(	1)	C	44	-	C	45	29.9	59.0	28.1	50.0	4.7	147.7	246.9	4.7
106.	BD	(	2)	C	44	-	C	45	29.9	59.0	116.4	28.2	90.1	116.3	28.3	90.0
108.	BD	(	1)	C	45	-	C	46	75.6	110.7	73.3	109.8	2.5	103.2	290.9	1.2
112.	BD	(	1)	C	47	-	C	57	121.9	225.8	121.4	226.9	1.0	--	--	--
158.	BD	(	1)	C	62	-	H	89	92.6	52.5	94.1	51.9	1.6	--	--	--
221.	LP	(	1)	O	2				--	--	163.2	113.8	--	--	--	--
222.	LP	(	2)	O	2				--	--	83.9	196.1	--	--	--	--
223.	LP*	(	1)	B	14				--	--	74.6	119.0	--	--	--	--
224.	LP	(	1)	B	15				--	--	69.5	112.8	--	--	--	--
225.	LP	(	1)	N	20				--	--	130.1	289.5	--	--	--	--
1454.	BD*	(	2)	C	1	-	O	2	161.8	128.3	108.0	286.0	88.9	105.8	284.2	89.2
1455.	BD*	(	1)	C	1	-	B	14	46.2	4.9	71.1	10.8	25.4	153.5	176.6	20.2
1459.	BD*	(	2)	C	3	-	C	8	56.4	133.5	77.0	233.3	90.8	104.1	53.2	90.0
1462.	BD*	(	2)	C	4	-	C	5	16.8	36.9	75.1	234.4	91.2	73.2	235.0	90.8
1467.	BD*	(	2)	C	6	-	C	7	115.5	151.6	105.4	54.6	89.5	104.9	53.9	89.7
1473.	BD*	(	2)	N	9	-	C	10	96.6	263.2	149.3	156.8	92.6	27.0	339.4	90.3
1479.	BD*	(	2)	N	11	-	C	41	102.0	287.1	154.5	162.9	92.8	14.9	352.2	84.5
1481.	BD*	(	2)	C	12	-	C	13	68.8	119.8	152.7	161.1	90.0	152.7	160.8	90.0

1487.	BD*(	2)	C	16	-	N	17	107.2	182.2	49.5	107.9	89.7	133.0	286.0	92.1
1492.	BD*(	2)	C	18	-	C	19	48.9	327.4	131.8	287.7	90.3	131.5	288.3	90.2
1499.	BD*(	2)	C	21	-	C	26	71.6	119.4	97.5	30.6	91.2	98.0	32.4	90.3
1501.	BD*(	2)	C	22	-	C	23	130.9	129.4	98.3	30.7	91.1	98.4	31.9	89.9
1506.	BD*(	2)	C	24	-	C	25	15.5	89.1	98.4	31.8	89.9	81.3	211.8	90.2
1525.	BD*(	2)	C	31	-	C	36	106.5	313.2	117.3	53.8	91.5	117.8	51.0	91.0
1527.	BD*(	2)	C	32	-	C	33	53.9	344.5	116.0	53.7	90.1	116.8	53.0	89.9
1532.	BD*(	2)	C	34	-	C	35	150.2	258.8	62.9	232.3	89.9	62.8	231.9	89.9
1551.	BD*(	2)	C	41	-	C	46	49.7	322.6	110.4	25.0	83.8	63.1	207.9	90.5
1553.	BD*(	2)	C	42	-	C	43	102.1	291.6	64.4	206.6	90.8	116.0	28.1	89.6
1558.	BD*(	2)	C	44	-	C	45	29.9	59.0	116.4	28.2	90.1	116.3	28.3	90.0

Second Order Perturbation Theory Analysis of Fock Matrix in NBO Basis

Threshold for printing: 0.50 kcal/mol

F(i,j)	Donor NBO (i)	Acceptor NBO (j)	E(2) kcal/mol	E(j)-E(i) a.u.
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within unit 1
1. BD ( 1) C 1 - O 2 /226. RY*( 1) C 1 1.44 1.92
0.047
1. BD ( 1) C 1 - O 2 /422. RY*( 1) B 15 0.51 2.53
0.032
1. BD ( 1) C 1 - O 2 /***. BD*( 1) C 1 - B 14 1.51 1.24
0.040
1. BD ( 1) C 1 - O 2 /***. BD*( 1) C 1 - B 15 2.00 1.35
0.047
2. BD ( 2) C 1 - O 2 /223. LP*( 1) B 14 2.48 0.29
0.028
2. BD ( 2) C 1 - O 2 /224. LP ( 1) B 15 3.43 0.29
0.035
2. BD ( 2) C 1 - O 2 /***. BD*( 2) C 1 - O 2 0.94 0.30
0.017
3. BD ( 1) C 1 - B 14 /224. LP ( 1) B 15 0.67 0.35
0.015
3. BD ( 1) C 1 - B 14 /229. RY*( 4) C 1 0.56 2.08
0.033
3. BD ( 1) C 1 - B 14 /240. RY*( 1) O 2 1.23 1.18
0.037
3. BD ( 1) C 1 - B 14 /242. RY*( 3) O 2 0.77 1.58
0.034
3. BD ( 1) C 1 - B 14 /***. BD*( 1) C 1 - B 14 1.69 0.65
0.031
3. BD ( 1) C 1 - B 14 /***. BD*( 1) C 1 - B 15 10.68 0.77
0.086
3. BD ( 1) C 1 - B 14 /***. BD*( 1) N 9 - C 10 0.64 0.67
0.020
3. BD ( 1) C 1 - B 14 /***. BD*( 2) N 9 - C 10 11.08 0.27
0.055
3. BD ( 1) C 1 - B 14 /***. BD*( 1) B 14 - B 15 10.07 0.80
0.086
3. BD ( 1) C 1 - B 14 /***. BD*( 1) B 15 - C 16 28.64 0.73
0.138
4. BD ( 1) C 1 - B 15 /223. LP*( 1) B 14 1.99 0.43
0.030
4. BD ( 1) C 1 - B 15 /240. RY*( 1) O 2 1.35 1.26
0.038
4. BD ( 1) C 1 - B 15 /242. RY*( 3) O 2 1.28 1.66
0.043
4. BD ( 1) C 1 - B 15 /413. RY*( 6) B 14 0.78 3.86
0.051
4. BD ( 1) C 1 - B 15 /430. RY*( 9) B 15 1.15 6.86
0.082
4. BD ( 1) C 1 - B 15 /433. RY*( 12) B 15 0.71 4.38
0.051

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0.046	4. BD (1) C 1 - B 15	/436. RY*((1) C 16	1.14	2.22
0.040	4. BD (1) C 1 - B 15	/***. BD*((1) C 1 - O 2	2.08	0.92
0.054	4. BD (1) C 1 - B 15	/***. BD*((1) C 1 - B 14	4.92	0.74
0.025	4. BD (1) C 1 - B 15	/***. BD*((1) C 1 - B 15	0.87	0.85
0.095	4. BD (1) C 1 - B 15	/***. BD*((1) C 10 - B 14	12.72	0.84
0.054	4. BD (1) C 1 - B 15	/***. BD*((1) B 14 - B 15	3.90	0.89
0.042	4. BD (1) C 1 - B 15	/***. BD*((1) B 15 - C 16	2.57	0.81
0.015	4. BD (1) C 1 - B 15	/***. BD*((2) C 16 - N 17	0.65	0.34
0.050	4. BD (1) C 1 - B 15	/***. BD*((1) C 16 - N 20	4.04	0.76
0.028	5. BD (1) C 3 - C 4	/283. RY*((2) C 5	0.63	1.59
0.029	5. BD (1) C 3 - C 4	/338. RY*((1) N 9	0.68	1.49
0.033	5. BD (1) C 3 - C 4	/***. BD*((1) C 3 - C 8	1.26	1.10
0.021	5. BD (1) C 3 - C 4	/***. BD*((1) C 3 - C 53	0.58	0.96
0.045	5. BD (1) C 3 - C 4	/***. BD*((1) C 4 - C 5	2.31	1.09
0.053	5. BD (1) C 3 - C 4	/***. BD*((1) C 5 - C 51	3.72	0.95
0.048	5. BD (1) C 3 - C 4	/***. BD*((1) C 8 - H 76	2.91	0.98
0.032	5. BD (1) C 3 - C 4	/***. BD*((1) N 9 - C 10	1.28	0.98
0.032	5. BD (1) C 3 - C 4	/***. BD*((1) N 9 - C 13	1.29	0.97
0.029	5. BD (1) C 3 - C 4	/***. BD*((1) C 53 - C 60	1.15	0.94
0.038	6. BD (1) C 3 - C 8	/268. RY*((1) C 4	0.88	1.98
0.037	6. BD (1) C 3 - C 8	/311. RY*((2) C 7	0.93	1.83
0.028	6. BD (1) C 3 - C 8	/953. RY*((1) C 53	0.58	1.68
0.036	6. BD (1) C 3 - C 8	/***. BD*((1) C 3 - C 4	1.47	1.09
0.023	6. BD (1) C 3 - C 8	/***. BD*((1) C 3 - C 53	0.71	0.96
0.062	6. BD (1) C 3 - C 8	/***. BD*((1) C 4 - N 9	5.06	0.94
0.037	6. BD (1) C 3 - C 8	/***. BD*((1) C 7 - C 8	1.57	1.11
0.044	6. BD (1) C 3 - C 8	/***. BD*((1) C 7 - H 77	2.54	0.97
0.026	6. BD (1) C 3 - C 8	/***. BD*((1) C 53 - H 82	0.84	0.98
0.028	7. BD (2) C 3 - C 8	/312. RY*((3) C 7	1.05	0.76
0.051	7. BD (2) C 3 - C 8	/***. BD*((2) C 4 - C 5	14.14	0.23
0.054	7. BD (2) C 3 - C 8	/***. BD*((2) C 6 - C 7	16.54	0.22
0.035	7. BD (2) C 3 - C 8	/***. BD*((1) C 53 - C 54	2.53	0.51
0.019	7. BD (2) C 3 - C 8	/***. BD*((1) C 53 - C 60	0.69	0.53
0.019	7. BD (2) C 3 - C 8	/***. BD*((1) C 53 - H 82	0.65	0.57
0.048	8. BD (1) C 3 - C 53	/268. RY*((1) C 4	1.49	1.90

0.037	8. BD (1) C 3 - C 53	/324. RY*(1) C 8	0.89	1.95
0.024	8. BD (1) C 3 - C 53	/***. BD*(1) C 3 - C 4	0.71	1.00
0.025	8. BD (1) C 3 - C 53	/***. BD*(1) C 3 - C 8	0.78	1.02
0.056	8. BD (1) C 3 - C 53	/***. BD*(1) C 4 - C 5	3.90	1.00
0.048	8. BD (1) C 3 - C 53	/***. BD*(1) C 7 - C 8	2.82	1.03
0.032	8. BD (1) C 3 - C 53	/***. BD*(1) C 54 - H 117	1.48	0.88
0.029	8. BD (1) C 3 - C 53	/***. BD*(1) C 60 - H 120	1.15	0.89
0.035	9. BD (1) C 4 - C 5	/255. RY*(2) C 3	0.86	1.72
0.027	9. BD (1) C 4 - C 5	/297. RY*(2) C 6	0.52	1.74
0.031	9. BD (1) C 4 - C 5	/338. RY*(1) N 9	0.80	1.49
0.045	9. BD (1) C 4 - C 5	/***. BD*(1) C 3 - C 4	2.31	1.09
0.052	9. BD (1) C 4 - C 5	/***. BD*(1) C 3 - C 53	3.52	0.97
0.019	9. BD (1) C 4 - C 5	/***. BD*(1) C 4 - N 9	0.50	0.94
0.035	9. BD (1) C 4 - C 5	/***. BD*(1) C 5 - C 6	1.40	1.10
0.021	9. BD (1) C 4 - C 5	/***. BD*(1) C 5 - C 51	0.60	0.95
0.047	9. BD (1) C 4 - C 5	/***. BD*(1) C 6 - H 78	2.88	0.98
0.034	9. BD (1) C 4 - C 5	/***. BD*(1) N 9 - C 10	1.48	0.98
0.023	9. BD (1) C 4 - C 5	/***. BD*(2) N 9 - C 10	0.76	0.59
0.024	9. BD (1) C 4 - C 5	/***. BD*(1) N 9 - C 13	0.72	0.97
0.021	9. BD (1) C 4 - C 5	/***. BD*(1) C 51 - C 52	0.59	0.91
0.022	9. BD (1) C 4 - C 5	/***. BD*(1) C 51 - C 59	0.65	0.92
0.033	10. BD (2) C 4 - C 5	/298. RY*(3) C 6	1.47	0.77
0.056	10. BD (2) C 4 - C 5	/***. BD*(2) C 3 - C 8	16.45	0.24
0.050	10. BD (2) C 4 - C 5	/***. BD*(2) C 6 - C 7	13.56	0.23
0.042	10. BD (2) C 4 - C 5	/***. BD*(1) N 9 - C 10	3.25	0.57
0.040	10. BD (2) C 4 - C 5	/***. BD*(1) N 9 - C 13	3.02	0.57
0.032	10. BD (2) C 4 - C 5	/***. BD*(1) C 51 - C 52	2.10	0.51
0.034	10. BD (2) C 4 - C 5	/***. BD*(1) C 51 - C 59	2.33	0.51
0.034	11. BD (1) C 4 - N 9	/254. RY*(1) C 3	0.71	2.07
0.031	11. BD (1) C 4 - N 9	/282. RY*(1) C 5	0.58	2.11
0.039	11. BD (1) C 4 - N 9	/352. RY*(1) C 10	0.82	2.35
0.033	11. BD (1) C 4 - N 9	/395. RY*(2) C 13	0.68	2.04
0.024	11. BD (1) C 4 - N 9	/***. BD*(1) C 3 - C 4	0.61	1.17
0.047	11. BD (1) C 4 - N 9	/***. BD*(1) C 3 - C 8	2.37	1.19
0.022	11. BD (1) C 4 - N 9	/***. BD*(1) C 4 - C 5	0.51	1.17

0.046	11. BD (1) C 4 - N 9	/***. BD*(1) C 5 - C 6	2.28	1.18
0.027	11. BD (1) C 4 - N 9	/***. BD*(1) N 9 - C 10	0.84	1.06
0.022	11. BD (1) C 4 - N 9	/***. BD*(1) N 9 - C 13	0.56	1.05
0.034	11. BD (1) C 4 - N 9	/***. BD*(1) C 10 - N 11	1.32	1.06
0.029	11. BD (1) C 4 - N 9	/***. BD*(1) C 12 - C 13	0.87	1.21
0.037	12. BD (1) C 5 - C 6	/268. RY*(1) C 4	0.87	1.99
0.038	12. BD (1) C 5 - C 6	/311. RY*(2) C 7	0.96	1.84
0.032	12. BD (1) C 5 - C 6	/925. RY*(1) C 51	0.74	1.75
0.037	12. BD (1) C 5 - C 6	/***. BD*(1) C 4 - C 5	1.57	1.09
0.061	12. BD (1) C 5 - C 6	/***. BD*(1) C 4 - N 9	4.93	0.94
0.023	12. BD (1) C 5 - C 6	/***. BD*(1) C 5 - C 51	0.68	0.95
0.038	12. BD (1) C 5 - C 6	/***. BD*(1) C 6 - C 7	1.58	1.12
0.045	12. BD (1) C 5 - C 6	/***. BD*(1) C 7 - H 77	2.56	0.97
0.028	12. BD (1) C 5 - C 6	/***. BD*(1) C 51 - H 81	1.05	0.95
0.048	13. BD (1) C 5 - C 51	/268. RY*(1) C 4	1.49	1.91
0.038	13. BD (1) C 5 - C 51	/296. RY*(1) C 6	0.92	1.98
0.055	13. BD (1) C 5 - C 51	/***. BD*(1) C 3 - C 4	3.73	1.01
0.024	13. BD (1) C 5 - C 51	/***. BD*(1) C 4 - C 5	0.73	1.01
0.024	13. BD (1) C 5 - C 51	/***. BD*(1) C 5 - C 6	0.73	1.02
0.048	13. BD (1) C 5 - C 51	/***. BD*(1) C 6 - C 7	2.75	1.04
0.031	13. BD (1) C 5 - C 51	/***. BD*(1) C 52 - H 114	1.41	0.87
0.031	13. BD (1) C 5 - C 51	/***. BD*(1) C 59 - H 111	1.40	0.87
0.047	14. BD (1) C 6 - C 7	/282. RY*(1) C 5	1.36	2.04
0.029	14. BD (1) C 6 - C 7	/324. RY*(1) C 8	0.52	2.05
0.027	14. BD (1) C 6 - C 7	/325. RY*(2) C 8	0.58	1.62
0.040	14. BD (1) C 6 - C 7	/***. BD*(1) C 5 - C 6	1.81	1.11
0.056	14. BD (1) C 6 - C 7	/***. BD*(1) C 5 - C 51	4.01	0.96
0.037	14. BD (1) C 6 - C 7	/***. BD*(1) C 7 - C 8	1.49	1.12
0.045	14. BD (1) C 6 - C 7	/***. BD*(1) C 8 - H 76	2.55	0.99
0.050	15. BD (2) C 6 - C 7	/***. BD*(2) C 3 - C 8	13.21	0.24
0.055	15. BD (2) C 6 - C 7	/***. BD*(2) C 4 - C 5	16.26	0.23
0.050	16. BD (1) C 6 - H 78	/282. RY*(1) C 5	1.68	1.86
0.037	16. BD (1) C 6 - H 78	/310. RY*(1) C 7	1.01	1.66
0.062	16. BD (1) C 6 - H 78	/***. BD*(1) C 4 - C 5	5.20	0.91
0.054	16. BD (1) C 6 - H 78	/***. BD*(1) C 7 - C 8	3.89	0.94

0.046	17. BD (1) C 7 - C 8	/254. RY*(1) C 3	1.30	1.99
0.031	17. BD (1) C 7 - C 8	/297. RY*(2) C 6	0.67	1.74
0.040	17. BD (1) C 7 - C 8	/***. BD*(1) C 3 - C 8	1.78	1.11
0.056	17. BD (1) C 7 - C 8	/***. BD*(1) C 3 - C 53	4.02	0.97
0.037	17. BD (1) C 7 - C 8	/***. BD*(1) C 6 - C 7	1.51	1.12
0.046	17. BD (1) C 7 - C 8	/***. BD*(1) C 6 - H 78	2.68	0.98
0.046	18. BD (1) C 7 - H 77	/296. RY*(1) C 6	1.42	1.88
0.046	18. BD (1) C 7 - H 77	/324. RY*(1) C 8	1.44	1.87
0.021	18. BD (1) C 7 - H 77	/***. RY*(1) H 78	0.51	1.07
0.058	18. BD (1) C 7 - H 77	/***. BD*(1) C 3 - C 8	4.55	0.93
0.058	18. BD (1) C 7 - H 77	/***. BD*(1) C 5 - C 6	4.50	0.93
0.049	19. BD (1) C 8 - H 76	/254. RY*(1) C 3	1.64	1.81
0.036	19. BD (1) C 8 - H 76	/310. RY*(1) C 7	1.00	1.66
0.061	19. BD (1) C 8 - H 76	/***. BD*(1) C 3 - C 4	5.19	0.91
0.055	19. BD (1) C 8 - H 76	/***. BD*(1) C 6 - C 7	3.97	0.94
0.024	20. BD (1) N 9 - C 10	/223. LP*(1) B 14	0.70	0.75
0.033	20. BD (1) N 9 - C 10	/269. RY*(2) C 4	0.90	1.47
0.031	20. BD (1) N 9 - C 10	/396. RY*(3) C 13	0.66	1.78
0.023	20. BD (1) N 9 - C 10	/***. BD*(1) C 3 - C 4	0.56	1.18
0.026	20. BD (1) N 9 - C 10	/***. BD*(1) C 4 - C 5	0.72	1.18
0.026	20. BD (1) N 9 - C 10	/***. BD*(2) C 4 - C 5	0.96	0.73
0.028	20. BD (1) N 9 - C 10	/***. BD*(1) C 4 - N 9	0.94	1.03
0.028	20. BD (1) N 9 - C 10	/***. BD*(1) N 9 - C 13	0.90	1.06
0.040	20. BD (1) N 9 - C 10	/***. BD*(1) C 10 - B 14	1.74	1.16
0.063	20. BD (1) N 9 - C 10	/***. BD*(1) N 11 - C 41	4.89	1.03
0.045	20. BD (1) N 9 - C 10	/***. BD*(1) C 13 - H 72	2.42	1.06
0.031	20. BD (1) N 9 - C 10	/***. BD*(1) B 14 - B 15	1.01	1.20
0.035	21. BD (2) N 9 - C 10	/270. RY*(3) C 4	1.02	1.43
0.042	21. BD (2) N 9 - C 10	/394. RY*(1) C 13	2.14	0.95
0.027	21. BD (2) N 9 - C 10	/***. BD*(1) C 1 - B 14	1.43	0.62
0.050	21. BD (2) N 9 - C 10	/***. BD*(1) C 3 - C 4	4.06	0.75
0.051	21. BD (2) N 9 - C 10	/***. BD*(1) C 4 - C 5	4.08	0.75
0.061	21. BD (2) N 9 - C 10	/***. BD*(2) C 12 - C 13	15.90	0.27
0.018	21. BD (2) N 9 - C 10	/***. BD*(1) B 14 - B 15	0.53	0.77
0.029	22. BD (1) N 9 - C 13	/269. RY*(2) C 4	0.69	1.47

0.035	22. BD (1) N 9 - C 13	/352. RY*(1) C 10	0.64	2.36
0.036	22. BD (1) N 9 - C 13	/354. RY*(3) C 10	0.66	2.40
0.031	22. BD (1) N 9 - C 13	/355. RY*(4) C 10	0.51	2.31
0.035	22. BD (1) N 9 - C 13	/382. RY*(3) C 12	0.87	1.79
0.030	22. BD (1) N 9 - C 13	/***. BD*(1) C 3 - C 4	0.95	1.18
0.029	22. BD (1) N 9 - C 13	/***. BD*(2) C 4 - C 5	1.18	0.73
0.026	22. BD (1) N 9 - C 13	/***. BD*(1) C 4 - N 9	0.82	1.03
0.027	22. BD (1) N 9 - C 13	/***. BD*(1) N 9 - C 10	0.84	1.07
0.023	22. BD (1) N 9 - C 13	/***. BD*(1) C 10 - N 11	0.63	1.07
0.051	22. BD (1) N 9 - C 13	/***. BD*(1) C 10 - B 14	2.77	1.16
0.024	22. BD (1) N 9 - C 13	/***. BD*(1) N 11 - C 41	0.67	1.03
0.026	22. BD (1) N 9 - C 13	/***. BD*(1) C 12 - C 13	0.67	1.22
0.056	22. BD (1) N 9 - C 13	/***. BD*(1) C 12 - H 71	3.70	1.06
0.030	23. BD (1) C 10 - N 11	/382. RY*(3) C 12	0.63	1.79
0.032	23. BD (1) C 10 - N 11	/787. RY*(2) C 41	0.83	1.51
0.062	23. BD (1) C 10 - N 11	/***. BD*(1) C 4 - N 9	4.72	1.03
0.040	23. BD (1) C 10 - N 11	/***. BD*(1) C 10 - B 14	1.75	1.16
0.028	23. BD (1) C 10 - N 11	/***. BD*(1) N 11 - C 12	0.92	1.06
0.028	23. BD (1) C 10 - N 11	/***. BD*(1) N 11 - C 41	0.94	1.03
0.045	23. BD (1) C 10 - N 11	/***. BD*(1) C 12 - H 71	2.37	1.06
0.028	23. BD (1) C 10 - N 11	/***. BD*(1) B 14 - B 15	0.83	1.21
0.028	23. BD (1) C 10 - N 11	/***. BD*(1) C 41 - C 46	0.70	1.36
0.023	23. BD (1) C 10 - N 11	/***. BD*(2) C 41 - C 46	0.76	0.75
0.026	24. BD (1) C 10 - B 14	/338. RY*(1) N 9	0.63	1.37
0.036	24. BD (1) C 10 - B 14	/339. RY*(2) N 9	0.84	1.91
0.023	24. BD (1) C 10 - B 14	/366. RY*(1) N 11	0.51	1.32
0.042	24. BD (1) C 10 - B 14	/367. RY*(2) N 11	1.13	1.95
0.028	24. BD (1) C 10 - B 14	/411. RY*(4) B 14	0.56	1.73
0.056	24. BD (1) C 10 - B 14	/413. RY*(6) B 14	0.96	3.97
0.039	24. BD (1) C 10 - B 14	/414. RY*(7) B 14	0.62	3.05
0.068	24. BD (1) C 10 - B 14	/416. RY*(9) B 14	1.14	4.98
0.046	24. BD (1) C 10 - B 14	/419. RY*(12) B 14	0.55	4.69
0.072	24. BD (1) C 10 - B 14	/422. RY*(1) B 15	2.95	2.14
0.026	24. BD (1) C 10 - B 14	/***. BD*(1) C 1 - B 14	0.93	0.85
0.033	24. BD (1) C 10 - B 14	/***. BD*(1) C 1 - B 15	1.42	0.96

0.033	24. BD (1) C 10 - B 14	/***. BD*(1) N 9 - C 10	1.57	0.86
0.049	24. BD (1) C 10 - B 14	/***. BD*(1) N 9 - C 13	3.46	0.86
0.032	24. BD (1) C 10 - B 14	/***. BD*(1) C 10 - N 11	1.51	0.86
0.048	24. BD (1) C 10 - B 14	/***. BD*(1) N 11 - C 12	3.34	0.85
0.050	24. BD (1) C 10 - B 14	/***. BD*(1) B 14 - B 15	3.14	1.00
0.027	24. BD (1) C 10 - B 14	/***. BD*(1) B 15 - C 16	0.95	0.92
0.038	25. BD (1) N 11 - C 12	/352. RY*(1) C 10	0.75	2.36
0.042	25. BD (1) N 11 - C 12	/354. RY*(3) C 10	0.91	2.39
0.035	25. BD (1) N 11 - C 12	/396. RY*(3) C 13	0.86	1.78
0.028	25. BD (1) N 11 - C 12	/787. RY*(2) C 41	0.67	1.50
0.024	25. BD (1) N 11 - C 12	/***. BD*(1) C 4 - N 9	0.69	1.03
0.024	25. BD (1) N 11 - C 12	/***. BD*(1) N 9 - C 10	0.67	1.07
0.027	25. BD (1) N 11 - C 12	/***. BD*(1) C 10 - N 11	0.86	1.06
0.053	25. BD (1) N 11 - C 12	/***. BD*(1) C 10 - B 14	2.99	1.16
0.026	25. BD (1) N 11 - C 12	/***. BD*(1) N 11 - C 41	0.84	1.02
0.026	25. BD (1) N 11 - C 12	/***. BD*(1) C 12 - C 13	0.67	1.22
0.056	25. BD (1) N 11 - C 12	/***. BD*(1) C 13 - H 72	3.68	1.05
0.031	25. BD (1) N 11 - C 12	/***. BD*(1) C 41 - C 42	0.90	1.35
0.031	25. BD (1) N 11 - C 12	/***. BD*(2) C 41 - C 46	1.34	0.74
0.039	26. BD (1) N 11 - C 41	/352. RY*(1) C 10	0.82	2.35
0.033	26. BD (1) N 11 - C 41	/381. RY*(2) C 12	0.65	2.04
0.034	26. BD (1) N 11 - C 41	/799. RY*(1) C 42	0.70	2.08
0.032	26. BD (1) N 11 - C 41	/855. RY*(1) C 46	0.61	2.10
0.033	26. BD (1) N 11 - C 41	/***. BD*(1) N 9 - C 10	1.27	1.06
0.027	26. BD (1) N 11 - C 41	/***. BD*(1) C 10 - N 11	0.89	1.06
0.022	26. BD (1) N 11 - C 41	/***. BD*(1) N 11 - C 12	0.56	1.05
0.034	26. BD (1) N 11 - C 41	/***. BD*(2) N 11 - C 41	0.67	1.70
0.030	26. BD (1) N 11 - C 41	/***. BD*(1) C 12 - C 13	0.91	1.21
0.027	26. BD (1) N 11 - C 41	/***. BD*(1) C 41 - C 46	0.67	1.35
0.048	26. BD (1) N 11 - C 41	/***. BD*(1) C 42 - C 43	2.42	1.19
0.046	26. BD (1) N 11 - C 41	/***. BD*(1) C 45 - C 46	2.26	1.18
0.049	27. BD (2) N 11 - C 41	/358. RY*(7) C 10	1.13	2.14
0.051	27. BD (2) N 11 - C 41	/380. RY*(1) C 12	2.89	0.90
0.035	27. BD (2) N 11 - C 41	/788. RY*(3) C 41	0.73	1.70
0.043	27. BD (2) N 11 - C 41	/794. RY*(9) C 41	0.94	2.03

0.088	27. BD (2) N 11 - C 41	/***. BD*(2) N 9 - C 10	43.76	0.18
0.055	27. BD (2) N 11 - C 41	/***. BD*(2) N 11 - C 41	2.99	1.23
0.069	27. BD (2) N 11 - C 41	/***. BD*(2) C 12 - C 13	26.04	0.22
0.080	27. BD (2) N 11 - C 41	/***. BD*(1) C 41 - C 42	7.56	0.87
0.081	27. BD (2) N 11 - C 41	/***. BD*(1) C 41 - C 46	7.71	0.87
0.018	27. BD (2) N 11 - C 41	/***. BD*(2) C 41 - C 46	1.66	0.26
0.021	27. BD (2) N 11 - C 41	/***. BD*(1) C 42 - C 43	0.65	0.71
0.021	27. BD (2) N 11 - C 41	/***. BD*(1) C 45 - C 46	0.66	0.70
0.046	28. BD (1) C 12 - C 13	/339. RY*(2) N 9	1.28	2.06
0.047	28. BD (1) C 12 - C 13	/367. RY*(2) N 11	1.33	2.11
0.063	28. BD (1) C 12 - C 13	/***. BD*(1) C 4 - N 9	5.06	0.98
0.062	28. BD (1) C 12 - C 13	/***. BD*(1) N 11 - C 41	4.94	0.98
0.028	28. BD (1) C 12 - C 13	/***. BD*(1) C 12 - H 71	0.98	1.00
0.028	28. BD (1) C 12 - C 13	/***. BD*(1) C 13 - H 72	0.99	1.00
0.039	29. BD (2) C 12 - C 13	/***. BD*(2) N 9 - C 10	6.33	0.20
0.043	30. BD (1) C 12 - H 71	/367. RY*(2) N 11	1.20	1.94
0.038	30. BD (1) C 12 - H 71	/395. RY*(2) C 13	0.98	1.83
0.037	30. BD (1) C 12 - H 71	/***. BD*(1) N 9 - C 13	2.04	0.84
0.052	30. BD (1) C 12 - H 71	/***. BD*(1) C 10 - N 11	3.90	0.85
0.026	30. BD (1) C 12 - H 71	/***. BD*(1) C 12 - C 13	0.83	1.00
0.041	31. BD (1) C 13 - H 72	/339. RY*(2) N 9	1.12	1.89
0.039	31. BD (1) C 13 - H 72	/381. RY*(2) C 12	1.01	1.84
0.052	31. BD (1) C 13 - H 72	/***. BD*(1) N 9 - C 10	3.91	0.85
0.037	31. BD (1) C 13 - H 72	/***. BD*(1) N 11 - C 12	2.06	0.84
0.026	31. BD (1) C 13 - H 72	/***. BD*(1) C 12 - C 13	0.84	1.00
0.030	32. BD (1) B 14 - B 15	/226. RY*(1) C 1	0.81	1.30
0.060	32. BD (1) B 14 - B 15	/352. RY*(1) C 10	2.17	1.93
0.043	32. BD (1) B 14 - B 15	/355. RY*(4) C 10	1.11	1.88
0.030	32. BD (1) B 14 - B 15	/356. RY*(5) C 10	0.74	1.36
0.050	32. BD (1) B 14 - B 15	/408. RY*(1) B 14	1.57	1.80
0.026	32. BD (1) B 14 - B 15	/411. RY*(4) B 14	0.52	1.50
0.051	32. BD (1) B 14 - B 15	/419. RY*(12) B 14	0.66	4.47
0.030	32. BD (1) B 14 - B 15	/422. RY*(1) B 15	0.54	1.92
0.044	32. BD (1) B 14 - B 15	/432. RY*(11) B 15	0.66	3.34
0.059	32. BD (1) B 14 - B 15	/436. RY*(1) C 16	1.89	2.11

0.028	32. BD (1) B 14 - B 15	/438. RY*(3) C 16	0.51	1.74
0.125	32. BD (1) B 14 - B 15	/***. BD*(1) C 1 - O 2	22.95	0.80
0.038	32. BD (1) B 14 - B 15	/***. BD*(1) C 1 - B 14	2.81	0.62
0.040	32. BD (1) B 14 - B 15	/***. BD*(1) C 1 - B 15	2.60	0.74
0.024	32. BD (1) B 14 - B 15	/***. BD*(1) N 9 - C 10	1.02	0.64
0.016	32. BD (1) B 14 - B 15	/***. BD*(2) N 9 - C 10	0.98	0.24
0.027	32. BD (1) B 14 - B 15	/***. BD*(1) C 10 - N 11	1.40	0.64
0.034	32. BD (1) B 14 - B 15	/***. BD*(1) C 10 - B 14	1.88	0.73
0.047	32. BD (1) B 14 - B 15	/***. BD*(1) B 15 - C 16	3.67	0.70
0.047	32. BD (1) B 14 - B 15	/***. BD*(1) C 16 - N 17	3.97	0.64
0.065	33. BD (1) B 15 - C 16	/408. RY*(1) B 14	2.55	2.03
0.083	33. BD (1) B 15 - C 16	/430. RY*(9) B 15	1.21	6.96
0.052	33. BD (1) B 15 - C 16	/433. RY*(12) B 15	0.74	4.49
0.036	33. BD (1) B 15 - C 16	/436. RY*(1) C 16	0.70	2.33
0.050	33. BD (1) B 15 - C 16	/450. RY*(1) N 17	1.55	1.99
0.026	33. BD (1) B 15 - C 16	/452. RY*(3) N 17	0.56	1.46
0.048	33. BD (1) B 15 - C 16	/492. RY*(1) N 20	1.50	1.90
0.036	33. BD (1) B 15 - C 16	/***. BD*(1) C 1 - O 2	1.60	1.02
0.031	33. BD (1) B 15 - C 16	/***. BD*(1) C 1 - B 14	1.35	0.84
0.044	33. BD (1) B 15 - C 16	/***. BD*(1) C 1 - B 15	2.45	0.96
0.036	33. BD (1) B 15 - C 16	/***. BD*(1) C 10 - B 14	1.75	0.95
0.062	33. BD (1) B 15 - C 16	/***. BD*(1) B 14 - B 15	4.92	0.99
0.031	33. BD (1) B 15 - C 16	/***. BD*(1) C 16 - N 17	1.35	0.86
0.031	33. BD (1) B 15 - C 16	/***. BD*(1) C 16 - N 20	1.36	0.86
0.050	33. BD (1) B 15 - C 16	/***. BD*(1) N 17 - C 18	3.77	0.84
0.049	33. BD (1) B 15 - C 16	/***. BD*(1) C 19 - N 20	3.63	0.84
0.032	34. BD (1) C 16 - N 17	/466. RY*(3) C 18	0.68	1.86
0.033	34. BD (1) C 16 - N 17	/492. RY*(1) N 20	0.64	2.14
0.030	34. BD (1) C 16 - N 17	/507. RY*(2) C 21	0.76	1.50
0.030	34. BD (1) C 16 - N 17	/***. BD*(1) B 14 - B 15	0.92	1.23
0.040	34. BD (1) C 16 - N 17	/***. BD*(1) B 15 - C 16	1.68	1.16
0.031	34. BD (1) C 16 - N 17	/***. BD*(1) N 17 - C 18	1.08	1.08
0.030	34. BD (1) C 16 - N 17	/***. BD*(1) N 17 - C 21	1.05	1.04
0.046	34. BD (1) C 16 - N 17	/***. BD*(1) C 18 - H 63	2.43	1.07
0.065	34. BD (1) C 16 - N 17	/***. BD*(1) N 20 - C 31	5.14	1.04

0.023	34. BD (1) C 16 - N 17	/***. BD*(1) C 21 - C 22	0.56	1.20
0.026	34. BD (1) C 16 - N 17	/***. BD*(1) C 21 - C 26	0.71	1.20
0.023	34. BD (1) C 16 - N 17	/***. BD*(2) C 21 - C 26	0.73	0.75
0.039	35. BD (2) C 16 - N 17	/224. LP (1) B 15	3.98	0.34
0.041	35. BD (2) C 16 - N 17	/464. RY*(1) C 18	2.06	0.93
0.035	35. BD (2) C 16 - N 17	/508. RY*(3) C 21	1.11	1.29
0.062	35. BD (2) C 16 - N 17	/***. BD*(2) C 18 - C 19	16.05	0.28
0.049	35. BD (2) C 16 - N 17	/***. BD*(1) C 21 - C 22	3.67	0.77
0.048	35. BD (2) C 16 - N 17	/***. BD*(1) C 21 - C 26	3.63	0.77
0.034	36. BD (1) C 16 - N 20	/450. RY*(1) N 17	0.63	2.23
0.032	36. BD (1) C 16 - N 20	/480. RY*(3) C 19	0.68	1.84
0.033	36. BD (1) C 16 - N 20	/647. RY*(2) C 31	0.92	1.49
0.039	36. BD (1) C 16 - N 20	/***. BD*(1) B 15 - C 16	1.63	1.16
0.065	36. BD (1) C 16 - N 20	/***. BD*(1) N 17 - C 21	5.05	1.04
0.031	36. BD (1) C 16 - N 20	/***. BD*(1) C 19 - N 20	1.10	1.08
0.045	36. BD (1) C 16 - N 20	/***. BD*(1) C 19 - H 64	2.33	1.07
0.030	36. BD (1) C 16 - N 20	/***. BD*(1) N 20 - C 31	1.08	1.04
0.026	36. BD (1) C 16 - N 20	/***. BD*(1) C 31 - C 32	0.68	1.20
0.023	36. BD (1) C 16 - N 20	/***. BD*(1) C 31 - C 36	0.56	1.20
0.024	36. BD (1) C 16 - N 20	/***. BD*(2) C 31 - C 36	0.80	0.75
0.041	37. BD (1) N 17 - C 18	/436. RY*(1) C 16	0.83	2.56
0.051	37. BD (1) N 17 - C 18	/439. RY*(4) C 16	1.41	2.26
0.035	37. BD (1) N 17 - C 18	/480. RY*(3) C 19	0.82	1.83
0.028	37. BD (1) N 17 - C 18	/507. RY*(2) C 21	0.65	1.50
0.052	37. BD (1) N 17 - C 18	/***. BD*(1) B 15 - C 16	2.90	1.15
0.029	37. BD (1) N 17 - C 18	/***. BD*(1) C 16 - N 17	0.94	1.10
0.024	37. BD (1) N 17 - C 18	/***. BD*(1) C 16 - N 20	0.64	1.10
0.027	37. BD (1) N 17 - C 18	/***. BD*(1) N 17 - C 21	0.85	1.03
0.025	37. BD (1) N 17 - C 18	/***. BD*(1) C 18 - C 19	0.62	1.22
0.055	37. BD (1) N 17 - C 18	/***. BD*(1) C 19 - H 64	3.51	1.06
0.025	37. BD (1) N 17 - C 18	/***. BD*(1) N 20 - C 31	0.73	1.03
0.028	37. BD (1) N 17 - C 18	/***. BD*(1) C 21 - C 22	0.84	1.20
0.030	37. BD (1) N 17 - C 18	/***. BD*(2) C 21 - C 26	1.19	0.75
0.046	38. BD (1) N 17 - C 21	/436. RY*(1) C 16	1.04	2.54
0.032	38. BD (1) N 17 - C 21	/465. RY*(2) C 18	0.64	2.05

0.032	38. BD (1) N 17 - C 21	/520. RY*(1) C 22	0.64	2.01
0.031	38. BD (1) N 17 - C 21	/576. RY*(1) C 26	0.56	2.12
0.030	38. BD (1) N 17 - C 21	/***. BD*(1) C 16 - N 17	1.04	1.07
0.036	38. BD (1) N 17 - C 21	/***. BD*(1) C 16 - N 20	1.51	1.07
0.022	38. BD (1) N 17 - C 21	/***. BD*(1) N 17 - C 18	0.59	1.05
0.030	38. BD (1) N 17 - C 21	/***. BD*(1) C 18 - C 19	0.92	1.19
0.022	38. BD (1) N 17 - C 21	/***. BD*(1) C 21 - C 22	0.54	1.17
0.047	38. BD (1) N 17 - C 21	/***. BD*(1) C 22 - C 23	2.32	1.20
0.047	38. BD (1) N 17 - C 21	/***. BD*(1) C 25 - C 26	2.29	1.19
0.047	39. BD (1) C 18 - C 19	/450. RY*(1) N 17	1.26	2.16
0.043	39. BD (1) C 18 - C 19	/492. RY*(1) N 20	1.09	2.07
0.064	39. BD (1) C 18 - C 19	/***. BD*(1) N 17 - C 21	5.20	0.97
0.027	39. BD (1) C 18 - C 19	/***. BD*(1) C 18 - H 63	0.88	1.00
0.027	39. BD (1) C 18 - C 19	/***. BD*(1) C 19 - H 64	0.90	1.00
0.063	39. BD (1) C 18 - C 19	/***. BD*(1) N 20 - C 31	5.10	0.97
0.041	40. BD (2) C 18 - C 19	/***. BD*(2) C 16 - N 17	7.87	0.21
0.044	41. BD (1) C 18 - H 63	/450. RY*(1) N 17	1.19	1.99
0.038	41. BD (1) C 18 - H 63	/479. RY*(2) C 19	0.98	1.80
0.053	41. BD (1) C 18 - H 63	/***. BD*(1) C 16 - N 17	4.06	0.87
0.024	41. BD (1) C 18 - H 63	/***. BD*(1) C 18 - C 19	0.71	0.99
0.036	41. BD (1) C 18 - H 63	/***. BD*(1) C 19 - N 20	1.88	0.84
0.042	42. BD (1) C 19 - N 20	/436. RY*(1) C 16	0.85	2.56
0.037	42. BD (1) C 19 - N 20	/438. RY*(3) C 16	0.78	2.19
0.035	42. BD (1) C 19 - N 20	/466. RY*(3) C 18	0.80	1.85
0.028	42. BD (1) C 19 - N 20	/647. RY*(2) C 31	0.67	1.48
0.053	42. BD (1) C 19 - N 20	/***. BD*(1) B 15 - C 16	2.97	1.15
0.024	42. BD (1) C 19 - N 20	/***. BD*(1) C 16 - N 17	0.65	1.10
0.029	42. BD (1) C 19 - N 20	/***. BD*(1) C 16 - N 20	0.96	1.10
0.025	42. BD (1) C 19 - N 20	/***. BD*(1) N 17 - C 21	0.73	1.03
0.024	42. BD (1) C 19 - N 20	/***. BD*(1) C 18 - C 19	0.60	1.22
0.055	42. BD (1) C 19 - N 20	/***. BD*(1) C 18 - H 63	3.54	1.06
0.026	42. BD (1) C 19 - N 20	/***. BD*(1) N 20 - C 31	0.82	1.03
0.028	42. BD (1) C 19 - N 20	/***. BD*(1) C 31 - C 36	0.80	1.19
0.030	42. BD (1) C 19 - N 20	/***. BD*(2) C 31 - C 36	1.25	0.74
0.038	43. BD (1) C 19 - H 64	/465. RY*(2) C 18	0.99	1.85

43. BD (1) C 19 - H 64	/492. RY*(1) N 20	1.09	1.90
0.041			
43. BD (1) C 19 - H 64	/***. BD*(1) C 16 - N 20	4.07	0.87
0.053			
43. BD (1) C 19 - H 64	/***. BD*(1) N 17 - C 18	1.91	0.85
0.036			
43. BD (1) C 19 - H 64	/***. BD*(1) C 18 - C 19	0.73	0.99
0.024			
44. BD (1) N 20 - C 31	/436. RY*(1) C 16	0.96	2.55
0.044			
44. BD (1) N 20 - C 31	/479. RY*(2) C 19	0.63	2.01
0.032			
44. BD (1) N 20 - C 31	/660. RY*(1) C 32	0.56	2.13
0.031			
44. BD (1) N 20 - C 31	/716. RY*(1) C 36	0.59	2.11
0.032			
44. BD (1) N 20 - C 31	/***. BD*(1) C 16 - N 17	1.44	1.08
0.035			
44. BD (1) N 20 - C 31	/***. BD*(1) C 16 - N 20	1.04	1.08
0.030			
44. BD (1) N 20 - C 31	/***. BD*(1) C 18 - C 19	0.87	1.20
0.029			
44. BD (1) N 20 - C 31	/***. BD*(1) C 19 - N 20	0.57	1.05
0.022			
44. BD (1) N 20 - C 31	/***. BD*(1) C 31 - C 32	0.51	1.17
0.022			
44. BD (1) N 20 - C 31	/***. BD*(1) C 31 - C 36	0.56	1.18
0.023			
44. BD (1) N 20 - C 31	/***. BD*(1) C 32 - C 33	2.23	1.19
0.046			
44. BD (1) N 20 - C 31	/***. BD*(1) C 35 - C 36	2.31	1.19
0.047			
45. BD (1) C 21 - C 22	/451. RY*(2) N 17	0.69	1.38
0.028			
45. BD (1) C 21 - C 22	/578. RY*(3) C 26	0.71	1.69
0.031			
45. BD (1) C 21 - C 22	/***. BD*(1) C 16 - N 17	1.41	0.98
0.033			
45. BD (1) C 21 - C 22	/***. BD*(2) C 16 - N 17	0.66	0.57
0.021			
45. BD (1) C 21 - C 22	/***. BD*(1) N 17 - C 18	1.14	0.97
0.030			
45. BD (1) C 21 - C 22	/***. BD*(1) C 21 - C 26	2.47	1.09
0.046			
45. BD (1) C 21 - C 22	/***. BD*(1) C 22 - C 23	1.25	1.11
0.033			
45. BD (1) C 21 - C 22	/***. BD*(1) C 22 - C 27	0.59	0.96
0.021			
45. BD (1) C 21 - C 22	/***. BD*(1) C 23 - H 67	2.86	0.99
0.048			
45. BD (1) C 21 - C 22	/***. BD*(1) C 26 - C 29	3.76	0.95
0.053			
45. BD (1) C 21 - C 22	/***. BD*(1) C 27 - C 62	1.13	0.93
0.029			
46. BD (1) C 21 - C 26	/451. RY*(2) N 17	0.89	1.38
0.031			
46. BD (1) C 21 - C 26	/522. RY*(3) C 22	0.79	1.60
0.032			
46. BD (1) C 21 - C 26	/***. BD*(1) C 16 - N 17	1.69	0.99
0.037			
46. BD (1) C 21 - C 26	/***. BD*(2) C 16 - N 17	0.86	0.58
0.024			
46. BD (1) C 21 - C 26	/***. BD*(1) N 17 - C 18	0.74	0.97
0.024			
46. BD (1) C 21 - C 26	/***. BD*(1) C 21 - C 22	2.48	1.09
0.046			
46. BD (1) C 21 - C 26	/***. BD*(1) C 22 - C 27	3.62	0.97
0.053			
46. BD (1) C 21 - C 26	/***. BD*(1) C 25 - C 26	1.41	1.10
0.035			

0.047	46. BD (1) C 21 - C 26	/***. BD*(1) C 25 - H 65	2.85	0.98
0.022	46. BD (1) C 21 - C 26	/***. BD*(1) C 26 - C 29	0.63	0.96
0.021	46. BD (1) C 21 - C 26	/***. BD*(1) C 29 - C 30	0.60	0.92
0.021	46. BD (1) C 21 - C 26	/***. BD*(1) C 29 - C 61	0.59	0.92
0.021	47. BD (2) C 21 - C 26	/521. RY*(2) C 22	0.53	0.91
0.032	47. BD (2) C 21 - C 26	/564. RY*(3) C 25	1.37	0.80
0.042	47. BD (2) C 21 - C 26	/***. BD*(1) C 16 - N 17	3.22	0.58
0.040	47. BD (2) C 21 - C 26	/***. BD*(1) N 17 - C 18	3.05	0.56
0.056	47. BD (2) C 21 - C 26	/***. BD*(2) C 22 - C 23	16.25	0.24
0.049	47. BD (2) C 21 - C 26	/***. BD*(2) C 24 - C 25	13.12	0.23
0.032	47. BD (2) C 21 - C 26	/***. BD*(1) C 29 - C 30	2.13	0.51
0.033	47. BD (2) C 21 - C 26	/***. BD*(1) C 29 - C 61	2.20	0.51
0.036	48. BD (1) C 22 - C 23	/506. RY*(1) C 21	0.86	1.89
0.038	48. BD (1) C 22 - C 23	/549. RY*(2) C 24	0.97	1.83
0.027	48. BD (1) C 22 - C 23	/590. RY*(1) C 27	0.53	1.70
0.063	48. BD (1) C 22 - C 23	/***. BD*(1) N 17 - C 21	5.34	0.92
0.036	48. BD (1) C 22 - C 23	/***. BD*(1) C 21 - C 22	1.53	1.08
0.023	48. BD (1) C 22 - C 23	/***. BD*(1) C 22 - C 27	0.71	0.96
0.038	48. BD (1) C 22 - C 23	/***. BD*(1) C 23 - C 24	1.57	1.12
0.044	48. BD (1) C 22 - C 23	/***. BD*(1) C 24 - H 66	2.47	0.97
0.025	48. BD (1) C 22 - C 23	/***. BD*(1) C 27 - H 84	0.84	0.95
0.023	49. BD (2) C 22 - C 23	/550. RY*(3) C 24	0.68	0.79
0.051	49. BD (2) C 22 - C 23	/***. BD*(2) C 21 - C 26	14.54	0.22
0.054	49. BD (2) C 22 - C 23	/***. BD*(2) C 24 - C 25	16.49	0.22
0.036	49. BD (2) C 22 - C 23	/***. BD*(1) C 27 - C 28	2.60	0.50
0.018	49. BD (2) C 22 - C 23	/***. BD*(1) C 27 - C 62	0.67	0.52
0.020	49. BD (2) C 22 - C 23	/***. BD*(1) C 27 - H 84	0.77	0.54
0.045	50. BD (1) C 22 - C 27	/506. RY*(1) C 21	1.41	1.81
0.037	50. BD (1) C 22 - C 27	/534. RY*(1) C 23	0.87	1.98
0.024	50. BD (1) C 22 - C 27	/***. BD*(1) C 21 - C 22	0.73	1.00
0.056	50. BD (1) C 22 - C 27	/***. BD*(1) C 21 - C 26	3.95	1.00
0.025	50. BD (1) C 22 - C 27	/***. BD*(1) C 22 - C 23	0.77	1.03
0.048	50. BD (1) C 22 - C 27	/***. BD*(1) C 23 - C 24	2.75	1.04
0.032	50. BD (1) C 22 - C 27	/***. BD*(1) C 28 - H 90	1.50	0.87
0.030	50. BD (1) C 22 - C 27	/***. BD*(1) C 62 - H 87	1.24	0.88

0.044	51. BD (1) C 23 - C 24	/520. RY*(1) C 22	1.26	1.93
0.031	51. BD (1) C 23 - C 24	/563. RY*(2) C 25	0.71	1.73
0.040	51. BD (1) C 23 - C 24	/***. BD*(1) C 22 - C 23	1.81	1.11
0.056	51. BD (1) C 23 - C 24	/***. BD*(1) C 22 - C 27	4.11	0.96
0.036	51. BD (1) C 23 - C 24	/***. BD*(1) C 24 - C 25	1.48	1.12
0.046	51. BD (1) C 23 - C 24	/***. BD*(1) C 25 - H 65	2.67	0.98
0.047	52. BD (1) C 23 - H 67	/520. RY*(1) C 22	1.59	1.75
0.037	52. BD (1) C 23 - H 67	/548. RY*(1) C 24	0.99	1.67
0.062	52. BD (1) C 23 - H 67	/***. BD*(1) C 21 - C 22	5.24	0.91
0.054	52. BD (1) C 23 - H 67	/***. BD*(1) C 24 - C 25	3.93	0.94
0.029	53. BD (1) C 24 - C 25	/534. RY*(1) C 23	0.51	2.06
0.025	53. BD (1) C 24 - C 25	/535. RY*(2) C 23	0.53	1.49
0.048	53. BD (1) C 24 - C 25	/576. RY*(1) C 26	1.39	2.04
0.036	53. BD (1) C 24 - C 25	/***. BD*(1) C 23 - C 24	1.46	1.13
0.044	53. BD (1) C 24 - C 25	/***. BD*(1) C 23 - H 67	2.51	0.99
0.040	53. BD (1) C 24 - C 25	/***. BD*(1) C 25 - C 26	1.81	1.11
0.056	53. BD (1) C 24 - C 25	/***. BD*(1) C 26 - C 29	4.04	0.96
0.056	54. BD (2) C 24 - C 25	/***. BD*(2) C 21 - C 26	16.61	0.23
0.050	54. BD (2) C 24 - C 25	/***. BD*(2) C 22 - C 23	13.26	0.24
0.046	55. BD (1) C 24 - H 66	/534. RY*(1) C 23	1.41	1.88
0.046	55. BD (1) C 24 - H 66	/562. RY*(1) C 25	1.41	1.88
0.021	55. BD (1) C 24 - H 66	/***. RY*(1) H 65	0.52	1.07
0.021	55. BD (1) C 24 - H 66	/***. RY*(1) H 67	0.52	1.08
0.058	55. BD (1) C 24 - H 66	/***. BD*(1) C 22 - C 23	4.52	0.93
0.058	55. BD (1) C 24 - H 66	/***. BD*(1) C 25 - C 26	4.54	0.92
0.037	56. BD (1) C 25 - C 26	/506. RY*(1) C 21	0.89	1.89
0.037	56. BD (1) C 25 - C 26	/549. RY*(2) C 24	0.92	1.84
0.032	56. BD (1) C 25 - C 26	/618. RY*(1) C 29	0.72	1.74
0.062	56. BD (1) C 25 - C 26	/***. BD*(1) N 17 - C 21	5.15	0.92
0.038	56. BD (1) C 25 - C 26	/***. BD*(1) C 21 - C 26	1.66	1.09
0.037	56. BD (1) C 25 - C 26	/***. BD*(1) C 24 - C 25	1.56	1.12
0.044	56. BD (1) C 25 - C 26	/***. BD*(1) C 24 - H 66	2.53	0.98
0.023	56. BD (1) C 25 - C 26	/***. BD*(1) C 26 - C 29	0.71	0.95
0.028	56. BD (1) C 25 - C 26	/***. BD*(1) C 29 - H 83	1.07	0.94
0.037	57. BD (1) C 25 - H 65	/548. RY*(1) C 24	1.00	1.68

57. BD (1) C 25 - H 65	/576. RY*(1) C 26	1.63	1.86
0.049			
57. BD (1) C 25 - H 65	/***. BD*(1) C 21 - C 26	5.28	0.91
0.062			
57. BD (1) C 25 - H 65	/***. BD*(1) C 23 - C 24	3.84	0.95
0.054			
58. BD (1) C 26 - C 29	/506. RY*(1) C 21	1.45	1.81
0.046			
58. BD (1) C 26 - C 29	/562. RY*(1) C 25	0.90	1.98
0.038			
58. BD (1) C 26 - C 29	/***. BD*(1) C 21 - C 22	3.78	1.01
0.055			
58. BD (1) C 26 - C 29	/***. BD*(1) C 21 - C 26	0.76	1.01
0.025			
58. BD (1) C 26 - C 29	/***. BD*(1) C 24 - C 25	2.73	1.04
0.048			
58. BD (1) C 26 - C 29	/***. BD*(1) C 25 - C 26	0.77	1.02
0.025			
58. BD (1) C 26 - C 29	/***. BD*(1) C 30 - H 93	1.42	0.87
0.032			
58. BD (1) C 26 - C 29	/***. BD*(1) C 61 - H 96	1.41	0.88
0.032			
59. BD (1) C 27 - C 28	/521. RY*(2) C 22	0.63	1.21
0.025			
59. BD (1) C 27 - C 28	/***. RY*(1) C 62	0.53	1.34
0.024			
59. BD (1) C 27 - C 28	/***. BD*(1) C 21 - C 22	0.96	0.98
0.028			
59. BD (1) C 27 - C 28	/***. BD*(1) C 22 - C 23	0.79	1.01
0.025			
59. BD (1) C 27 - C 28	/***. BD*(2) C 22 - C 23	2.92	0.54
0.038			
59. BD (1) C 27 - C 28	/***. BD*(1) C 62 - H 89	1.46	0.90
0.032			
60. BD (1) C 27 - C 62	/***. BD*(1) C 21 - C 22	3.47	0.98
0.052			
60. BD (1) C 27 - C 62	/***. BD*(2) C 22 - C 23	0.63	0.54
0.018			
60. BD (1) C 27 - C 62	/***. BD*(1) C 22 - C 27	0.62	0.86
0.021			
60. BD (1) C 27 - C 62	/***. BD*(1) C 28 - H 91	1.75	0.85
0.035			
61. BD (1) C 27 - H 84	/***. BD*(1) C 22 - C 23	4.48	0.89
0.057			
61. BD (1) C 27 - H 84	/***. BD*(2) C 22 - C 23	0.84	0.43
0.018			
61. BD (1) C 27 - H 84	/***. BD*(1) C 28 - H 92	2.73	0.73
0.040			
61. BD (1) C 27 - H 84	/***. BD*(1) C 62 - H 88	2.93	0.74
0.042			
62. BD (1) C 28 - H 90	/***. BD*(1) C 22 - C 27	3.24	0.77
0.045			
63. BD (1) C 28 - H 91	/***. BD*(1) C 27 - C 62	2.84	0.74
0.041			
64. BD (1) C 28 - H 92	/***. BD*(1) C 27 - H 84	2.34	0.76
0.038			
65. BD (1) C 29 - C 30	/577. RY*(2) C 26	0.83	1.33
0.030			
65. BD (1) C 29 - C 30	/***. BD*(1) C 21 - C 26	2.32	0.99
0.043			
65. BD (1) C 29 - C 30	/***. BD*(2) C 21 - C 26	2.00	0.55
0.033			
65. BD (1) C 29 - C 30	/***. BD*(1) C 26 - C 29	0.53	0.86
0.019			
65. BD (1) C 29 - C 30	/***. BD*(1) C 61 - H 97	1.54	0.89
0.033			
66. BD (1) C 29 - C 61	/***. BD*(1) C 21 - C 26	2.28	0.99
0.043			
66. BD (1) C 29 - C 61	/***. BD*(2) C 21 - C 26	2.03	0.54
0.033			

0.020	66. BD (1) C 29 - C 61	/***. BD*(1) C 26 - C 29	0.58	0.86
0.034	66. BD (1) C 29 - C 61	/***. BD*(1) C 30 - H 95	1.66	0.85
0.059	67. BD (1) C 29 - H 83	/***. BD*(1) C 25 - C 26	4.77	0.90
0.041	67. BD (1) C 29 - H 83	/***. BD*(1) C 30 - H 94	2.79	0.74
0.041	67. BD (1) C 29 - H 83	/***. BD*(1) C 61 - H 98	2.80	0.75
0.045	68. BD (1) C 30 - H 93	/***. BD*(1) C 26 - C 29	3.34	0.76
0.037	69. BD (1) C 30 - H 94	/***. BD*(1) C 29 - H 83	2.25	0.76
0.042	70. BD (1) C 30 - H 95	/***. BD*(1) C 29 - C 61	3.10	0.73
0.029	71. BD (1) C 31 - C 32	/493. RY*(2) N 20	0.68	1.48
0.035	71. BD (1) C 31 - C 32	/717. RY*(2) C 36	0.85	1.76
0.036	71. BD (1) C 31 - C 32	/***. BD*(1) C 16 - N 20	1.63	0.99
0.024	71. BD (1) C 31 - C 32	/***. BD*(1) C 19 - N 20	0.74	0.97
0.046	71. BD (1) C 31 - C 32	/***. BD*(1) C 31 - C 36	2.43	1.09
0.034	71. BD (1) C 31 - C 32	/***. BD*(1) C 32 - C 33	1.33	1.10
0.021	71. BD (1) C 31 - C 32	/***. BD*(1) C 32 - C 37	0.59	0.96
0.047	71. BD (1) C 31 - C 32	/***. BD*(1) C 33 - H 70	2.86	0.98
0.053	71. BD (1) C 31 - C 32	/***. BD*(1) C 36 - C 39	3.62	0.96
0.024	71. BD (1) C 31 - C 32	/***. BD*(1) C 37 - C 38	0.79	0.92
0.028	72. BD (1) C 31 - C 36	/493. RY*(2) N 20	0.64	1.48
0.027	72. BD (1) C 31 - C 36	/661. RY*(2) C 32	0.58	1.57
0.027	72. BD (1) C 31 - C 36	/703. RY*(2) C 35	0.52	1.72
0.033	72. BD (1) C 31 - C 36	/***. BD*(1) C 16 - N 20	1.39	0.99
0.029	72. BD (1) C 31 - C 36	/***. BD*(1) C 19 - N 20	1.11	0.97
0.046	72. BD (1) C 31 - C 36	/***. BD*(1) C 31 - C 32	2.41	1.09
0.052	72. BD (1) C 31 - C 36	/***. BD*(1) C 32 - C 37	3.59	0.96
0.034	72. BD (1) C 31 - C 36	/***. BD*(1) C 35 - C 36	1.33	1.11
0.048	72. BD (1) C 31 - C 36	/***. BD*(1) C 35 - H 68	2.86	0.98
0.022	72. BD (1) C 31 - C 36	/***. BD*(1) C 36 - C 39	0.61	0.96
0.020	72. BD (1) C 31 - C 36	/***. BD*(1) C 39 - C 40	0.52	0.92
0.022	72. BD (1) C 31 - C 36	/***. BD*(1) C 39 - C 56	0.66	0.94
0.031	73. BD (2) C 31 - C 36	/704. RY*(3) C 35	1.25	0.81
0.042	73. BD (2) C 31 - C 36	/***. BD*(1) C 16 - N 20	3.20	0.59
0.041	73. BD (2) C 31 - C 36	/***. BD*(1) C 19 - N 20	3.15	0.56
0.056	73. BD (2) C 31 - C 36	/***. BD*(2) C 32 - C 33	16.93	0.23
0.050	73. BD (2) C 31 - C 36	/***. BD*(2) C 34 - C 35	13.39	0.23

0.033	73. BD (2) C 31 - C 36	/***. BD*(1) C 39 - C 40	2.20	0.51
0.031	73. BD (2) C 31 - C 36	/***. BD*(1) C 39 - C 56	1.94	0.53
0.036	74. BD (1) C 32 - C 33	/646. RY*(1) C 31	0.83	1.95
0.038	74. BD (1) C 32 - C 33	/689. RY*(2) C 34	0.95	1.84
0.032	74. BD (1) C 32 - C 33	/730. RY*(1) C 37	0.73	1.75
0.061	74. BD (1) C 32 - C 33	/***. BD*(1) N 20 - C 31	5.01	0.93
0.037	74. BD (1) C 32 - C 33	/***. BD*(1) C 31 - C 32	1.55	1.08
0.023	74. BD (1) C 32 - C 33	/***. BD*(1) C 32 - C 37	0.71	0.95
0.037	74. BD (1) C 32 - C 33	/***. BD*(1) C 33 - C 34	1.55	1.12
0.044	74. BD (1) C 32 - C 33	/***. BD*(1) C 34 - H 69	2.50	0.98
0.027	74. BD (1) C 32 - C 33	/***. BD*(1) C 37 - H 85	1.00	0.95
0.024	75. BD (2) C 32 - C 33	/690. RY*(3) C 34	0.72	0.83
0.051	75. BD (2) C 32 - C 33	/***. BD*(2) C 31 - C 36	14.02	0.23
0.054	75. BD (2) C 32 - C 33	/***. BD*(2) C 34 - C 35	16.14	0.22
0.026	75. BD (2) C 32 - C 33	/***. BD*(1) C 37 - C 38	1.38	0.51
0.033	75. BD (2) C 32 - C 33	/***. BD*(1) C 37 - C 55	2.18	0.51
0.048	76. BD (1) C 32 - C 37	/646. RY*(1) C 31	1.54	1.87
0.038	76. BD (1) C 32 - C 37	/674. RY*(1) C 33	0.91	1.98
0.024	76. BD (1) C 32 - C 37	/***. BD*(1) C 31 - C 32	0.72	1.01
0.055	76. BD (1) C 32 - C 37	/***. BD*(1) C 31 - C 36	3.77	1.01
0.025	76. BD (1) C 32 - C 37	/***. BD*(1) C 32 - C 33	0.77	1.02
0.048	76. BD (1) C 32 - C 37	/***. BD*(1) C 33 - C 34	2.71	1.04
0.031	76. BD (1) C 32 - C 37	/***. BD*(1) C 38 - H 105	1.33	0.88
0.032	76. BD (1) C 32 - C 37	/***. BD*(1) C 55 - H 108	1.44	0.88
0.047	77. BD (1) C 33 - C 34	/660. RY*(1) C 32	1.35	2.04
0.030	77. BD (1) C 33 - C 34	/703. RY*(2) C 35	0.64	1.73
0.040	77. BD (1) C 33 - C 34	/***. BD*(1) C 32 - C 33	1.79	1.11
0.056	77. BD (1) C 33 - C 34	/***. BD*(1) C 32 - C 37	4.03	0.96
0.037	77. BD (1) C 33 - C 34	/***. BD*(1) C 34 - C 35	1.49	1.12
0.045	77. BD (1) C 33 - C 34	/***. BD*(1) C 35 - H 68	2.62	0.99
0.050	78. BD (1) C 33 - H 70	/660. RY*(1) C 32	1.66	1.86
0.037	78. BD (1) C 33 - H 70	/688. RY*(1) C 34	1.01	1.67
0.061	78. BD (1) C 33 - H 70	/***. BD*(1) C 31 - C 32	5.16	0.91
0.055	78. BD (1) C 33 - H 70	/***. BD*(1) C 34 - C 35	3.93	0.94
0.048	79. BD (1) C 34 - C 35	/716. RY*(1) C 36	1.41	2.03

79.	BD (1) C 34 - C 35	/***. BD*(1) C 33 - C 34	1.48	1.12
0.036				
79.	BD (1) C 34 - C 35	/***. BD*(1) C 33 - H 70	2.61	0.98
0.045				
79.	BD (1) C 34 - C 35	/***. BD*(1) C 35 - C 36	1.77	1.11
0.040				
79.	BD (1) C 34 - C 35	/***. BD*(1) C 36 - C 39	4.04	0.97
0.056				
80.	BD (2) C 34 - C 35	/***. BD*(2) C 31 - C 36	16.61	0.23
0.056				
80.	BD (2) C 34 - C 35	/***. BD*(2) C 32 - C 33	13.72	0.23
0.050				
81.	BD (1) C 34 - H 69	/674. RY*(1) C 33	1.41	1.88
0.046				
81.	BD (1) C 34 - H 69	/702. RY*(1) C 35	1.44	1.86
0.046				
81.	BD (1) C 34 - H 69	/***. RY*(1) H 68	0.51	1.08
0.021				
81.	BD (1) C 34 - H 69	/***. RY*(1) H 70	0.52	1.07
0.021				
81.	BD (1) C 34 - H 69	/***. BD*(1) C 32 - C 33	4.50	0.93
0.058				
81.	BD (1) C 34 - H 69	/***. BD*(1) C 35 - C 36	4.57	0.93
0.058				
82.	BD (1) C 35 - C 36	/646. RY*(1) C 31	0.86	1.95
0.037				
82.	BD (1) C 35 - C 36	/689. RY*(2) C 34	0.95	1.84
0.038				
82.	BD (1) C 35 - C 36	/758. RY*(1) C 39	0.72	1.75
0.032				
82.	BD (1) C 35 - C 36	/***. BD*(1) N 20 - C 31	5.12	0.93
0.062				
82.	BD (1) C 35 - C 36	/***. BD*(1) C 31 - C 36	1.57	1.09
0.037				
82.	BD (1) C 35 - C 36	/***. BD*(1) C 34 - C 35	1.54	1.12
0.037				
82.	BD (1) C 35 - C 36	/***. BD*(1) C 34 - H 69	2.54	0.98
0.045				
82.	BD (1) C 35 - C 36	/***. BD*(1) C 36 - C 39	0.73	0.96
0.024				
82.	BD (1) C 35 - C 36	/***. BD*(1) C 39 - H 86	0.98	0.95
0.027				
83.	BD (1) C 35 - H 68	/688. RY*(1) C 34	1.02	1.67
0.037				
83.	BD (1) C 35 - H 68	/716. RY*(1) C 36	1.68	1.85
0.050				
83.	BD (1) C 35 - H 68	/***. BD*(1) C 31 - C 36	5.24	0.91
0.062				
83.	BD (1) C 35 - H 68	/***. BD*(1) C 33 - C 34	3.97	0.94
0.055				
84.	BD (1) C 36 - C 39	/646. RY*(1) C 31	1.54	1.87
0.048				
84.	BD (1) C 36 - C 39	/702. RY*(1) C 35	0.90	1.95
0.038				
84.	BD (1) C 36 - C 39	/***. BD*(1) C 31 - C 32	3.85	1.00
0.056				
84.	BD (1) C 36 - C 39	/***. BD*(1) C 31 - C 36	0.75	1.01
0.025				
84.	BD (1) C 36 - C 39	/***. BD*(1) C 34 - C 35	2.78	1.04
0.048				
84.	BD (1) C 36 - C 39	/***. BD*(1) C 35 - C 36	0.79	1.02
0.025				
84.	BD (1) C 36 - C 39	/***. BD*(1) C 40 - H 99	1.42	0.88
0.032				
84.	BD (1) C 36 - C 39	/***. BD*(1) C 56 - H 102	1.36	0.89
0.031				
85.	BD (1) C 37 - C 38	/661. RY*(2) C 32	0.77	1.47
0.030				
85.	BD (1) C 37 - C 38	/***. BD*(1) C 31 - C 32	2.68	0.99
0.046				

0.027	85. BD (1) C 37 - C 38	/***. BD*(2) C 32 - C 33	1.40	0.54
0.019	85. BD (1) C 37 - C 38	/***. BD*(1) C 32 - C 37	0.53	0.86
0.033	85. BD (1) C 37 - C 38	/***. BD*(1) C 55 - H 110	1.52	0.89
0.026	86. BD (1) C 37 - C 55	/662. RY*(3) C 32	0.60	1.42
0.023	86. BD (1) C 37 - C 55	/744. RY*(1) C 38	0.50	1.30
0.037	86. BD (1) C 37 - C 55	/***. BD*(1) C 31 - C 32	1.75	0.98
0.034	86. BD (1) C 37 - C 55	/***. BD*(2) C 32 - C 33	2.22	0.54
0.020	86. BD (1) C 37 - C 55	/***. BD*(1) C 32 - C 37	0.56	0.85
0.034	86. BD (1) C 37 - C 55	/***. BD*(1) C 38 - H 106	1.65	0.86
0.058	87. BD (1) C 37 - H 85	/***. BD*(1) C 32 - C 33	4.76	0.89
0.041	87. BD (1) C 37 - H 85	/***. BD*(1) C 38 - H 107	2.86	0.74
0.041	87. BD (1) C 37 - H 85	/***. BD*(1) C 55 - H 109	2.77	0.75
0.046	88. BD (1) C 38 - H 105	/***. BD*(1) C 32 - C 37	3.50	0.76
0.043	89. BD (1) C 38 - H 106	/***. BD*(1) C 37 - C 55	3.11	0.73
0.036	90. BD (1) C 38 - H 107	/***. BD*(1) C 37 - H 85	2.18	0.76
0.030	91. BD (1) C 39 - C 40	/718. RY*(3) C 36	0.84	1.32
0.040	91. BD (1) C 39 - C 40	/***. BD*(1) C 31 - C 36	2.06	0.99
0.035	91. BD (1) C 39 - C 40	/***. BD*(2) C 31 - C 36	2.33	0.54
0.019	91. BD (1) C 39 - C 40	/***. BD*(1) C 36 - C 39	0.51	0.86
0.033	91. BD (1) C 39 - C 40	/***. BD*(1) C 56 - H 103	1.51	0.89
0.044	92. BD (1) C 39 - C 56	/***. BD*(1) C 31 - C 36	2.50	0.98
0.031	92. BD (1) C 39 - C 56	/***. BD*(2) C 31 - C 36	1.85	0.53
0.020	92. BD (1) C 39 - C 56	/***. BD*(1) C 36 - C 39	0.58	0.85
0.034	92. BD (1) C 39 - C 56	/***. BD*(1) C 40 - H 101	1.64	0.85
0.059	93. BD (1) C 39 - H 86	/***. BD*(1) C 35 - C 36	4.95	0.89
0.041	93. BD (1) C 39 - H 86	/***. BD*(1) C 40 - H 100	2.79	0.74
0.042	93. BD (1) C 39 - H 86	/***. BD*(1) C 56 - H 104	2.88	0.75
0.045	94. BD (1) C 40 - H 99	/***. BD*(1) C 36 - C 39	3.30	0.76
0.037	95. BD (1) C 40 - H 100	/***. BD*(1) C 39 - H 86	2.21	0.76
0.042	96. BD (1) C 40 - H 101	/***. BD*(1) C 39 - C 56	3.04	0.74
0.034	97. BD (1) C 41 - C 42	/787. RY*(2) C 41	1.04	1.19
0.129	97. BD (1) C 41 - C 42	/788. RY*(3) C 41	9.87	1.87
0.094	97. BD (1) C 41 - C 42	/789. RY*(4) C 41	4.89	2.01
0.043	97. BD (1) C 41 - C 42	/790. RY*(5) C 41	0.94	2.14
0.053	97. BD (1) C 41 - C 42	/792. RY*(7) C 41	1.58	2.00

0.035	97. BD (1) C 41 - C 42	/793. RY*(8) C 41	0.69	2.01
0.192	97. BD (1) C 41 - C 42	/794. RY*(9) C 41	18.48	2.21
0.036	97. BD (1) C 41 - C 42	/800. RY*(2) C 42	0.98	1.46
0.035	97. BD (1) C 41 - C 42	/802. RY*(4) C 42	0.97	1.42
0.041	97. BD (1) C 41 - C 42	/805. RY*(7) C 42	0.81	2.25
0.053	97. BD (1) C 41 - C 42	/809. RY*(11) C 42	1.12	2.73
0.024	97. BD (1) C 41 - C 42	/814. RY*(2) C 43	0.54	1.15
0.030	97. BD (1) C 41 - C 42	/815. RY*(3) C 43	0.75	1.30
0.039	97. BD (1) C 41 - C 42	/816. RY*(4) C 43	0.97	1.72
0.042	97. BD (1) C 41 - C 42	/855. RY*(1) C 46	1.07	1.80
0.047	97. BD (1) C 41 - C 42	/861. RY*(7) C 46	1.10	2.18
0.050	97. BD (1) C 41 - C 42	/865. RY*(11) C 46	0.95	2.86
0.045	97. BD (1) C 41 - C 42	/867. RY*(13) C 46	0.78	2.85
0.033	97. BD (1) C 41 - C 42	/***. BD*(1) C 10 - N 11	1.61	0.75
0.031	97. BD (1) C 41 - C 42	/***. BD*(1) N 11 - C 12	1.43	0.75
0.568	97. BD (1) C 41 - C 42	/***. BD*(2) N 11 - C 41	257.93	1.40
0.136	97. BD (1) C 41 - C 42	/***. BD*(1) C 41 - C 42	19.91	1.04
0.168	97. BD (1) C 41 - C 42	/***. BD*(1) C 41 - C 46	30.24	1.05
0.065	97. BD (1) C 41 - C 42	/***. BD*(2) C 41 - C 46	11.43	0.43
0.022	97. BD (1) C 41 - C 42	/***. BD*(1) C 42 - C 47	0.76	0.74
0.051	97. BD (1) C 41 - C 42	/***. BD*(1) C 43 - H 75	3.84	0.76
0.026	97. BD (1) C 41 - C 42	/***. BD*(1) C 45 - C 46	0.88	0.88
0.048	97. BD (1) C 41 - C 42	/***. BD*(1) C 46 - C 49	3.54	0.73
0.031	97. BD (1) C 41 - C 42	/***. BD*(1) C 47 - C 57	1.52	0.71
0.036	98. BD (1) C 41 - C 46	/787. RY*(2) C 41	1.21	1.18
0.135	98. BD (1) C 41 - C 46	/788. RY*(3) C 41	10.73	1.86
0.089	98. BD (1) C 41 - C 46	/789. RY*(4) C 41	4.39	2.00
0.035	98. BD (1) C 41 - C 46	/790. RY*(5) C 41	0.63	2.13
0.059	98. BD (1) C 41 - C 46	/792. RY*(7) C 41	1.94	1.98
0.035	98. BD (1) C 41 - C 46	/793. RY*(8) C 41	0.69	2.00
0.196	98. BD (1) C 41 - C 46	/794. RY*(9) C 41	19.22	2.19
0.031	98. BD (1) C 41 - C 46	/799. RY*(1) C 42	0.60	1.76
0.056	98. BD (1) C 41 - C 46	/805. RY*(7) C 42	1.51	2.24
0.044	98. BD (1) C 41 - C 46	/809. RY*(11) C 42	0.79	2.72
0.038	98. BD (1) C 41 - C 46	/811. RY*(13) C 42	0.57	2.79

98.046	BD (1) C 41 - C 46	/842. RY*(2) C 45	1.57	1.50
98.040	BD (1) C 41 - C 46	/844. RY*(4) C 45	1.04	1.71
98.041	BD (1) C 41 - C 46	/855. RY*(1) C 46	1.04	1.79
98.038	BD (1) C 41 - C 46	/856. RY*(2) C 46	1.01	1.53
98.046	BD (1) C 41 - C 46	/858. RY*(4) C 46	1.65	1.39
98.053	BD (1) C 41 - C 46	/865. RY*(11) C 46	1.09	2.84
98.040	BD (1) C 41 - C 46	/867. RY*(13) C 46	0.63	2.84
98.035	BD (1) C 41 - C 46	/898. RY*(2) C 49	0.71	1.90
98.027	BD (1) C 41 - C 46	/902. RY*(6) C 49	0.52	1.58
98.036	BD (1) C 41 - C 46	/***. BD*(1) C 10 - N 11	1.99	0.74
98.022	BD (1) C 41 - C 46	/***. BD*(1) N 11 - C 12	0.71	0.73
98.031	BD (1) C 41 - C 46	/***. BD*(1) N 11 - C 41	1.54	0.70
98.593	BD (1) C 41 - C 46	/***. BD*(2) N 11 - C 41	285.62	1.39
98.173	BD (1) C 41 - C 46	/***. BD*(1) C 41 - C 42	32.29	1.03
98.141	BD (1) C 41 - C 46	/***. BD*(1) C 41 - C 46	21.41	1.03
98.064	BD (1) C 41 - C 46	/***. BD*(2) C 41 - C 46	11.68	0.42
98.024	BD (1) C 41 - C 46	/***. BD*(1) C 42 - C 43	0.72	0.87
98.045	BD (1) C 41 - C 46	/***. BD*(1) C 42 - C 47	3.14	0.73
98.052	BD (1) C 41 - C 46	/***. BD*(1) C 45 - H 73	4.03	0.74
98.022	BD (1) C 41 - C 46	/***. BD*(1) C 46 - C 49	0.72	0.72
98.023	BD (1) C 41 - C 46	/***. BD*(1) C 49 - C 50	0.86	0.68
98.025	BD (1) C 41 - C 46	/***. BD*(1) C 49 - C 58	0.99	0.68
99.044	BD (2) C 41 - C 46	/788. RY*(3) C 41	1.20	1.67
99.030	BD (2) C 41 - C 46	/789. RY*(4) C 41	0.53	1.81
99.071	BD (2) C 41 - C 46	/794. RY*(9) C 41	2.64	2.00
99.032	BD (2) C 41 - C 46	/843. RY*(3) C 45	1.44	0.73
99.041	BD (2) C 41 - C 46	/***. BD*(1) C 10 - N 11	3.32	0.55
99.039	BD (2) C 41 - C 46	/***. BD*(1) N 11 - C 12	2.92	0.54
99.160	BD (2) C 41 - C 46	/***. BD*(2) N 11 - C 41	25.32	1.20
99.065	BD (2) C 41 - C 46	/***. BD*(1) C 41 - C 42	5.32	0.84
99.064	BD (2) C 41 - C 46	/***. BD*(1) C 41 - C 46	5.13	0.84
99.021	BD (2) C 41 - C 46	/***. BD*(2) C 41 - C 46	2.35	0.23
99.054	BD (2) C 41 - C 46	/***. BD*(2) C 42 - C 43	16.81	0.22
99.050	BD (2) C 41 - C 46	/***. BD*(2) C 44 - C 45	15.06	0.21
99.034	BD (2) C 41 - C 46	/***. BD*(1) C 49 - C 50	2.47	0.49

99.	BD (2) C 41 - C 46	/***. BD*(1) C 49 - C 58	2.14	0.49
0.032				
100.	BD (1) C 42 - C 43	/786. RY*(1) C 41	0.83	1.92
0.036				
100.	BD (1) C 42 - C 43	/828. RY*(2) C 44	0.93	1.82
0.037				
100.	BD (1) C 42 - C 43	/869. RY*(1) C 47	0.56	1.68
0.028				
100.	BD (1) C 42 - C 43	/***. BD*(1) N 11 - C 41	5.04	0.93
0.061				
100.	BD (1) C 42 - C 43	/***. BD*(2) N 11 - C 41	1.13	1.62
0.043				
100.	BD (1) C 42 - C 43	/***. BD*(1) C 41 - C 42	1.45	1.26
0.038				
100.	BD (1) C 42 - C 43	/***. BD*(1) C 42 - C 47	0.70	0.96
0.023				
100.	BD (1) C 42 - C 43	/***. BD*(1) C 43 - C 44	1.58	1.12
0.038				
100.	BD (1) C 42 - C 43	/***. BD*(1) C 44 - H 74	2.53	0.97
0.044				
100.	BD (1) C 42 - C 43	/***. BD*(1) C 47 - H 80	0.81	0.98
0.025				
101.	BD (2) C 42 - C 43	/829. RY*(3) C 44	0.83	0.79
0.025				
101.	BD (2) C 42 - C 43	/***. BD*(2) C 41 - C 46	12.82	0.24
0.050				
101.	BD (2) C 42 - C 43	/***. BD*(2) C 44 - C 45	16.59	0.22
0.054				
101.	BD (2) C 42 - C 43	/***. BD*(1) C 47 - C 48	2.59	0.51
0.036				
101.	BD (2) C 42 - C 43	/***. BD*(1) C 47 - C 57	0.58	0.52
0.017				
101.	BD (2) C 42 - C 43	/***. BD*(1) C 47 - H 80	0.77	0.57
0.021				
102.	BD (1) C 42 - C 47	/786. RY*(1) C 41	1.48	1.84
0.047				
102.	BD (1) C 42 - C 47	/813. RY*(1) C 43	0.86	1.97
0.037				
102.	BD (1) C 42 - C 47	/***. BD*(2) N 11 - C 41	3.55	1.54
0.074				
102.	BD (1) C 42 - C 47	/***. BD*(1) C 41 - C 46	1.79	1.18
0.041				
102.	BD (1) C 42 - C 47	/***. BD*(1) C 42 - C 43	0.76	1.02
0.025				
102.	BD (1) C 42 - C 47	/***. BD*(1) C 43 - C 44	2.84	1.03
0.048				
102.	BD (1) C 42 - C 47	/***. BD*(1) C 48 - H 126	1.43	0.88
0.032				
102.	BD (1) C 42 - C 47	/***. BD*(1) C 57 - H 123	1.15	0.89
0.029				
103.	BD (1) C 43 - C 44	/799. RY*(1) C 42	1.24	2.00
0.045				
103.	BD (1) C 43 - C 44	/842. RY*(2) C 45	0.65	1.74
0.030				
103.	BD (1) C 43 - C 44	/***. BD*(1) C 42 - C 43	1.78	1.11
0.040				
103.	BD (1) C 43 - C 44	/***. BD*(1) C 42 - C 47	3.95	0.97
0.055				
103.	BD (1) C 43 - C 44	/***. BD*(1) C 44 - C 45	1.52	1.12
0.037				
103.	BD (1) C 43 - C 44	/***. BD*(1) C 45 - H 73	2.72	0.98
0.046				
104.	BD (1) C 43 - H 75	/799. RY*(1) C 42	1.62	1.82
0.049				
104.	BD (1) C 43 - H 75	/827. RY*(1) C 44	0.98	1.64
0.036				
104.	BD (1) C 43 - H 75	/***. BD*(1) C 41 - C 42	3.67	1.09
0.056				
104.	BD (1) C 43 - H 75	/***. BD*(1) C 44 - C 45	3.98	0.94
0.055				

105.029	BD (1) C 44 - C 45	/813. RY*(1) C 43	0.52	2.06
105.048	BD (1) C 44 - C 45	/855. RY*(1) C 46	1.39	2.03
105.036	BD (1) C 44 - C 45	/***. BD*(1) C 43 - C 44	1.48	1.13
105.045	BD (1) C 44 - C 45	/***. BD*(1) C 43 - H 75	2.55	0.99
105.040	BD (1) C 44 - C 45	/***. BD*(1) C 45 - C 46	1.83	1.11
105.056	BD (1) C 44 - C 45	/***. BD*(1) C 46 - C 49	4.03	0.96
106.055	BD (2) C 44 - C 45	/***. BD*(2) C 41 - C 46	14.95	0.25
106.050	BD (2) C 44 - C 45	/***. BD*(2) C 42 - C 43	13.20	0.24
107.046	BD (1) C 44 - H 74	/813. RY*(1) C 43	1.42	1.88
107.046	BD (1) C 44 - H 74	/841. RY*(1) C 45	1.43	1.87
107.021	BD (1) C 44 - H 74	/***. RY*(1) H 73	0.52	1.07
107.021	BD (1) C 44 - H 74	/***. RY*(1) H 75	0.52	1.07
107.058	BD (1) C 44 - H 74	/***. BD*(1) C 42 - C 43	4.53	0.93
107.058	BD (1) C 44 - H 74	/***. BD*(1) C 45 - C 46	4.55	0.93
108.036	BD (1) C 45 - C 46	/786. RY*(1) C 41	0.83	1.92
108.037	BD (1) C 45 - C 46	/828. RY*(2) C 44	0.95	1.82
108.033	BD (1) C 45 - C 46	/897. RY*(1) C 49	0.76	1.74
108.061	BD (1) C 45 - C 46	/***. BD*(1) N 11 - C 41	4.96	0.94
108.036	BD (1) C 45 - C 46	/***. BD*(2) N 11 - C 41	0.80	1.63
108.043	BD (1) C 45 - C 46	/***. BD*(1) C 41 - C 46	1.83	1.27
108.038	BD (1) C 45 - C 46	/***. BD*(1) C 44 - C 45	1.60	1.12
108.045	BD (1) C 45 - C 46	/***. BD*(1) C 44 - H 74	2.59	0.97
108.023	BD (1) C 45 - C 46	/***. BD*(1) C 46 - C 49	0.69	0.95
108.028	BD (1) C 45 - C 46	/***. BD*(1) C 49 - H 79	1.06	0.95
109.036	BD (1) C 45 - H 73	/827. RY*(1) C 44	1.00	1.65
109.050	BD (1) C 45 - H 73	/855. RY*(1) C 46	1.66	1.85
109.056	BD (1) C 45 - H 73	/***. BD*(1) C 41 - C 46	3.56	1.10
109.054	BD (1) C 45 - H 73	/***. BD*(1) C 43 - C 44	3.90	0.94
110.047	BD (1) C 46 - C 49	/786. RY*(1) C 41	1.51	1.84
110.038	BD (1) C 46 - C 49	/841. RY*(1) C 45	0.91	1.97
110.076	BD (1) C 46 - C 49	/***. BD*(2) N 11 - C 41	3.66	1.55
110.040	BD (1) C 46 - C 49	/***. BD*(1) C 41 - C 42	1.72	1.19
110.048	BD (1) C 46 - C 49	/***. BD*(1) C 44 - C 45	2.79	1.04
110.025	BD (1) C 46 - C 49	/***. BD*(1) C 45 - C 46	0.74	1.02
110.032	BD (1) C 46 - C 49	/***. BD*(1) C 50 - H 129	1.43	0.87

110.032	BD (1) C 46 - C 49	/***. BD*(1) C 58 - H 132	1.41	0.87
111.028	BD (1) C 47 - C 48	/801. RY*(3) C 42	0.74	1.35
111.024	BD (1) C 47 - C 48	/***. RY*(1) C 57	0.55	1.30
111.025	BD (1) C 47 - C 48	/***. BD*(1) C 41 - C 42	0.66	1.16
111.026	BD (1) C 47 - C 48	/***. BD*(1) C 42 - C 43	0.84	0.99
111.038	BD (1) C 47 - C 48	/***. BD*(2) C 42 - C 43	2.95	0.53
111.034	BD (1) C 47 - C 48	/***. BD*(1) C 57 - H 125	1.69	0.87
112.030	BD (1) C 47 - C 57	/800. RY*(2) C 42	0.69	1.57
112.050	BD (1) C 47 - C 57	/***. BD*(1) C 41 - C 42	2.74	1.16
112.017	BD (1) C 47 - C 57	/***. BD*(2) C 42 - C 43	0.56	0.53
112.020	BD (1) C 47 - C 57	/***. BD*(1) C 42 - C 47	0.59	0.86
112.034	BD (1) C 47 - C 57	/***. BD*(1) C 48 - H 127	1.70	0.86
113.055	BD (1) C 47 - H 80	/***. BD*(1) C 42 - C 43	4.35	0.88
113.020	BD (1) C 47 - H 80	/***. BD*(2) C 42 - C 43	1.03	0.41
113.040	BD (1) C 47 - H 80	/***. BD*(1) C 48 - H 128	2.74	0.73
113.042	BD (1) C 47 - H 80	/***. BD*(1) C 57 - H 124	2.98	0.73
114.045	BD (1) C 48 - H 126	/***. BD*(1) C 42 - C 47	3.29	0.76
115.041	BD (1) C 48 - H 127	/***. BD*(1) C 47 - C 57	2.88	0.74
116.037	BD (1) C 48 - H 128	/***. BD*(1) C 47 - H 80	2.16	0.78
117.029	BD (1) C 49 - C 50	/857. RY*(3) C 46	0.81	1.27
117.039	BD (1) C 49 - C 50	/***. BD*(1) C 41 - C 46	1.62	1.17
117.033	BD (1) C 49 - C 50	/***. BD*(2) C 41 - C 46	1.97	0.56
117.019	BD (1) C 49 - C 50	/***. BD*(1) C 46 - C 49	0.54	0.86
117.033	BD (1) C 49 - C 50	/***. BD*(1) C 58 - H 133	1.57	0.88
118.041	BD (1) C 49 - C 58	/***. BD*(1) C 41 - C 46	1.81	1.17
118.032	BD (1) C 49 - C 58	/***. BD*(2) C 41 - C 46	1.89	0.56
118.020	BD (1) C 49 - C 58	/***. BD*(1) C 46 - C 49	0.59	0.86
118.034	BD (1) C 49 - C 58	/***. BD*(1) C 50 - H 131	1.64	0.86
119.059	BD (1) C 49 - H 79	/***. BD*(1) C 45 - C 46	4.84	0.89
119.041	BD (1) C 49 - H 79	/***. BD*(1) C 50 - H 130	2.77	0.74
119.041	BD (1) C 49 - H 79	/***. BD*(1) C 58 - H 134	2.85	0.74
120.045	BD (1) C 50 - H 129	/***. BD*(1) C 46 - C 49	3.33	0.76
121.037	BD (1) C 50 - H 130	/***. BD*(1) C 49 - H 79	2.25	0.76
122.042	BD (1) C 50 - H 131	/***. BD*(1) C 49 - C 58	3.10	0.73
123.030	BD (1) C 51 - C 52	/283. RY*(2) C 5	0.72	1.50

123. BD (1) C 51 - C 52	/***. BD*(1) C 4 - C 5	2.27	0.99
0.043			
123. BD (1) C 51 - C 52	/***. BD*(2) C 4 - C 5	2.17	0.54
0.034			
123. BD (1) C 51 - C 52	/***. BD*(1) C 5 - C 51	0.54	0.86
0.019			
123. BD (1) C 51 - C 52	/***. BD*(1) C 59 - H 113	1.58	0.88
0.033			
124. BD (1) C 51 - C 59	/284. RY*(3) C 5	0.66	1.43
0.028			
124. BD (1) C 51 - C 59	/***. BD*(1) C 4 - C 5	2.17	0.99
0.042			
124. BD (1) C 51 - C 59	/***. BD*(2) C 4 - C 5	1.82	0.54
0.031			
124. BD (1) C 51 - C 59	/***. BD*(1) C 5 - C 51	0.56	0.86
0.020			
124. BD (1) C 51 - C 59	/***. BD*(1) C 52 - H 115	1.64	0.86
0.034			
125. BD (1) C 51 - H 81	/***. BD*(1) C 5 - C 6	4.79	0.89
0.059			
125. BD (1) C 51 - H 81	/***. BD*(1) C 52 - H 116	2.80	0.74
0.041			
125. BD (1) C 51 - H 81	/***. BD*(1) C 59 - H 112	2.86	0.74
0.041			
126. BD (1) C 52 - H 114	/***. BD*(1) C 5 - C 51	3.34	0.76
0.045			
127. BD (1) C 52 - H 115	/***. BD*(1) C 51 - C 59	3.10	0.73
0.042			
128. BD (1) C 52 - H 116	/***. BD*(1) C 51 - H 81	2.20	0.76
0.037			
129. BD (1) C 53 - C 54	/256. RY*(3) C 3	0.83	1.31
0.030			
129. BD (1) C 53 - C 54	/***. BD*(1) C 3 - C 4	0.99	0.98
0.028			
129. BD (1) C 53 - C 54	/***. BD*(1) C 3 - C 8	0.75	1.00
0.024			
129. BD (1) C 53 - C 54	/***. BD*(2) C 3 - C 8	3.10	0.53
0.039			
129. BD (1) C 53 - C 54	/***. BD*(1) C 60 - H 121	1.64	0.88
0.034			
130. BD (1) C 53 - C 60	/255. RY*(2) C 3	0.60	1.61
0.028			
130. BD (1) C 53 - C 60	/***. BD*(1) C 3 - C 4	3.35	0.98
0.051			
130. BD (1) C 53 - C 60	/***. BD*(2) C 3 - C 8	0.61	0.53
0.017			
130. BD (1) C 53 - C 60	/***. BD*(1) C 3 - C 53	0.58	0.86
0.020			
130. BD (1) C 53 - C 60	/***. BD*(1) C 54 - H 119	1.70	0.86
0.034			
131. BD (1) C 53 - H 82	/***. BD*(1) C 3 - C 8	4.57	0.88
0.057			
131. BD (1) C 53 - H 82	/***. BD*(2) C 3 - C 8	0.73	0.41
0.017			
131. BD (1) C 53 - H 82	/***. BD*(1) C 54 - H 118	2.77	0.73
0.040			
131. BD (1) C 53 - H 82	/***. BD*(1) C 60 - H 122	3.02	0.73
0.042			
132. BD (1) C 54 - H 117	/***. BD*(1) C 3 - C 53	3.24	0.76
0.045			
133. BD (1) C 54 - H 118	/***. BD*(1) C 53 - H 82	2.18	0.78
0.037			
134. BD (1) C 54 - H 119	/***. BD*(1) C 53 - C 60	2.89	0.74
0.041			
135. BD (1) C 55 - H 108	/***. BD*(1) C 32 - C 37	3.43	0.75
0.045			
136. BD (1) C 55 - H 109	/***. BD*(1) C 37 - H 85	2.31	0.75
0.037			
137. BD (1) C 55 - H 110	/***. BD*(1) C 37 - C 38	3.25	0.71
0.043			

138. BD (1) C 56 - H 102 0.046	/***. BD*(1) C 36 - C 39	3.52	0.75
139. BD (1) C 56 - H 103 0.043	/***. BD*(1) C 39 - C 40	3.30	0.71
140. BD (1) C 56 - H 104 0.036	/***. BD*(1) C 39 - H 86	2.23	0.75
141. BD (1) C 57 - H 123 0.048	/***. BD*(1) C 42 - C 47	3.78	0.75
142. BD (1) C 57 - H 124 0.035	/***. BD*(1) C 47 - H 80	1.97	0.78
143. BD (1) C 57 - H 125 0.042	/***. BD*(1) C 47 - C 48	3.13	0.71
144. BD (1) C 58 - H 132 0.046	/***. BD*(1) C 46 - C 49	3.44	0.76
145. BD (1) C 58 - H 133 0.043	/***. BD*(1) C 49 - C 50	3.21	0.72
146. BD (1) C 58 - H 134 0.037	/***. BD*(1) C 49 - H 79	2.23	0.76
147. BD (1) C 59 - H 111 0.046	/***. BD*(1) C 5 - C 51	3.53	0.76
148. BD (1) C 59 - H 112 0.037	/***. BD*(1) C 51 - H 81	2.24	0.76
149. BD (1) C 59 - H 113 0.043	/***. BD*(1) C 51 - C 52	3.22	0.72
150. BD (1) C 60 - H 120 0.049	/***. BD*(1) C 3 - C 53	3.92	0.75
151. BD (1) C 60 - H 121 0.043	/***. BD*(1) C 53 - C 54	3.21	0.71
152. BD (1) C 60 - H 122 0.036	/***. BD*(1) C 53 - H 82	2.04	0.77
153. BD (1) C 61 - H 96 0.046	/***. BD*(1) C 26 - C 29	3.47	0.76
154. BD (1) C 61 - H 97 0.043	/***. BD*(1) C 29 - C 30	3.24	0.71
155. BD (1) C 61 - H 98 0.037	/***. BD*(1) C 29 - H 83	2.28	0.75
156. BD (1) C 62 - H 87 0.048	/***. BD*(1) C 22 - C 27	3.74	0.75
157. BD (1) C 62 - H 88 0.036	/***. BD*(1) C 27 - H 84	2.19	0.75
158. BD (1) C 62 - H 89 0.043	/***. BD*(1) C 27 - C 28	3.25	0.70
159. CR (1) C 1 0.079	/243. RY*(4) O 2	0.75	10.46
159. CR (1) C 1 0.087	/***. BD*(1) C 1 - O 2	0.91	10.26
159. CR (1) C 1 0.084	/***. BD*(1) C 1 - B 14	0.83	10.08
159. CR (1) C 1 0.127	/***. BD*(1) C 1 - B 15	1.91	10.20
159. CR (1) C 1 0.065	/***. BD*(1) C 10 - B 14	0.52	10.18
159. CR (1) C 1 0.128	/***. BD*(1) B 15 - C 16	1.96	10.15
160. CR (1) O 2 0.284	/226. RY*(1) C 1	5.15	19.43
160. CR (1) O 2 0.117	/***. BD*(1) C 1 - B 14	0.87	18.75
160. CR (1) O 2 0.128	/***. BD*(1) C 1 - B 15	1.06	18.87
161. CR (1) C 3 0.095	/270. RY*(3) C 4	1.03	10.87
161. CR (1) C 3 0.094	/325. RY*(2) C 8	1.04	10.72
161. CR (1) C 3 0.084	/***. BD*(1) C 4 - C 5	0.86	10.19
161. CR (1) C 3 0.083	/***. BD*(1) C 4 - N 9	0.84	10.04
161. CR (1) C 3 0.069	/***. BD*(1) C 7 - C 8	0.58	10.22

162. CR (1) C 4 0.084	/254. RY*(1) C 3	0.80	11.13
162. CR (1) C 4 0.077	/255. RY*(2) C 3	0.68	10.86
162. CR (1) C 4 0.091	/282. RY*(1) C 5	0.93	11.18
162. CR (1) C 4 0.065	/***. BD*(1) C 3 - C 4	0.51	10.23
162. CR (1) C 4 0.078	/***. BD*(1) C 3 - C 53	0.74	10.11
162. CR (1) C 4 0.065	/***. BD*(1) C 4 - C 5	0.50	10.23
162. CR (1) C 4 0.075	/***. BD*(1) C 4 - N 9	0.68	10.08
162. CR (1) C 4 0.064	/***. BD*(1) C 5 - C 6	0.50	10.24
162. CR (1) C 4 0.081	/***. BD*(1) C 5 - C 51	0.80	10.10
162. CR (1) C 4 0.089	/***. BD*(1) N 9 - C 10	0.97	10.12
162. CR (1) C 4 0.077	/***. BD*(1) N 9 - C 13	0.72	10.12
163. CR (1) C 5 0.098	/270. RY*(3) C 4	1.11	10.88
163. CR (1) C 5 0.108	/297. RY*(2) C 6	1.34	10.85
163. CR (1) C 5 0.083	/926. RY*(2) C 51	0.77	11.25
163. CR (1) C 5 0.083	/***. BD*(1) C 3 - C 4	0.84	10.20
163. CR (1) C 5 0.083	/***. BD*(1) C 4 - N 9	0.84	10.05
163. CR (1) C 5 0.067	/***. BD*(1) C 6 - C 7	0.55	10.23
164. CR (1) C 6 0.094	/283. RY*(2) C 5	1.03	10.69
164. CR (1) C 6 0.087	/284. RY*(3) C 5	0.89	10.62
164. CR (1) C 6 0.116	/311. RY*(2) C 7	1.54	10.93
164. CR (1) C 6 0.069	/***. RY*(2) H 78	0.50	11.96
164. CR (1) C 6 0.067	/***. BD*(1) C 4 - C 5	0.55	10.19
164. CR (1) C 6 0.077	/***. BD*(1) C 5 - C 51	0.74	10.05
164. CR (1) C 6 0.067	/***. BD*(1) C 7 - C 8	0.55	10.22
165. CR (1) C 7 0.102	/297. RY*(2) C 6	1.20	10.84
165. CR (1) C 7 0.089	/325. RY*(2) C 8	0.93	10.72
165. CR (1) C 7 0.073	/***. BD*(1) C 3 - C 8	0.65	10.21
165. CR (1) C 7 0.073	/***. BD*(1) C 5 - C 6	0.64	10.20
166. CR (1) C 8 0.121	/255. RY*(2) C 3	1.68	10.81
166. CR (1) C 8 0.111	/311. RY*(2) C 7	1.43	10.93
166. CR (1) C 8 0.067	/***. BD*(1) C 3 - C 4	0.54	10.18
166. CR (1) C 8 0.078	/***. BD*(1) C 3 - C 53	0.76	10.06
166. CR (1) C 8 0.068	/***. BD*(1) C 6 - C 7	0.56	10.21
167. CR (1) N 9 0.097	/268. RY*(1) C 4	0.78	15.21
167. CR (1) N 9 0.106	/396. RY*(3) C 13	0.94	14.91

167. CR (1) N 9	/***. BD*(1) C 10 - B 14	0.65	14.29
0.086			
168. CR (1) C 10	/408. RY*(1) B 14	1.11	11.31
0.100			
168. CR (1) C 10	/411. RY*(4) B 14	0.74	11.01
0.081			
168. CR (1) C 10	/***. BD*(1) C 4 - N 9	1.23	10.10
0.100			
168. CR (1) C 10	/***. BD*(1) N 9 - C 13	0.53	10.14
0.066			
168. CR (1) C 10	/***. BD*(1) C 10 - B 14	1.85	10.23
0.124			
168. CR (1) C 10	/***. BD*(1) N 11 - C 12	0.52	10.13
0.065			
168. CR (1) C 10	/***. BD*(1) N 11 - C 41	1.29	10.10
0.103			
168. CR (1) C 10	/***. BD*(1) B 14 - B 15	1.98	10.28
0.129			
169. CR (1) N 11	/354. RY*(3) C 10	0.93	15.53
0.107			
169. CR (1) N 11	/382. RY*(3) C 12	0.81	14.93
0.098			
169. CR (1) N 11	/786. RY*(1) C 41	0.71	15.15
0.093			
169. CR (1) N 11	/***. BD*(1) C 10 - B 14	0.69	14.29
0.089			
170. CR (1) C 12	/368. RY*(3) N 11	0.72	10.86
0.079			
170. CR (1) C 12	/395. RY*(2) C 13	1.07	11.10
0.097			
170. CR (1) C 12	/396. RY*(3) C 13	0.98	10.84
0.092			
170. CR (1) C 12	/***. RY*(1) H 71	0.57	11.57
0.073			
170. CR (1) C 12	/***. BD*(1) C 10 - N 11	0.69	10.12
0.075			
170. CR (1) C 12	/***. BD*(1) N 11 - C 41	1.11	10.08
0.095			
170. CR (1) C 12	/***. BD*(1) C 12 - C 13	1.15	10.28
0.097			
170. CR (1) C 12	/***. BD*(1) C 13 - H 72	1.05	10.11
0.092			
171. CR (1) C 13	/340. RY*(3) N 9	0.74	10.84
0.080			
171. CR (1) C 13	/381. RY*(2) C 12	1.05	11.11
0.096			
171. CR (1) C 13	/382. RY*(3) C 12	1.08	10.84
0.097			
171. CR (1) C 13	/***. RY*(1) H 72	0.56	11.54
0.072			
171. CR (1) C 13	/***. BD*(1) C 4 - N 9	1.14	10.08
0.097			
171. CR (1) C 13	/***. BD*(1) N 9 - C 10	0.68	10.12
0.075			
171. CR (1) C 13	/***. BD*(1) C 12 - C 13	1.15	10.28
0.097			
171. CR (1) C 13	/***. BD*(1) C 12 - H 71	1.05	10.11
0.092			
172. CR (1) B 14	/352. RY*(1) C 10	0.77	7.97
0.070			
172. CR (1) B 14	/422. RY*(1) B 15	1.28	7.95
0.090			
172. CR (1) B 14	/***. BD*(1) C 1 - O 2	1.80	6.84
0.100			
172. CR (1) B 14	/***. BD*(1) C 1 - B 14	0.95	6.66
0.073			
172. CR (1) B 14	/***. BD*(1) C 1 - B 15	1.43	6.77
0.089			
172. CR (1) B 14	/***. BD*(1) N 9 - C 10	1.39	6.67
0.087			

172. CR (1) B 14 0.091	/***. BD*(1) C 10 - N 11	1.54	6.67
172. CR (1) B 14 0.081	/***. BD*(1) B 14 - B 15	1.20	6.81
172. CR (1) B 14 0.156	/***. BD*(1) B 15 - C 16	4.41	6.73
173. CR (1) B 15 0.084	/226. RY*(1) C 1	1.19	7.33
173. CR (1) B 15 0.102	/408. RY*(1) B 14	1.65	7.83
173. CR (1) B 15 0.077	/436. RY*(1) C 16	0.90	8.13
173. CR (1) B 15 0.159	/***. BD*(1) C 1 - O 2	4.53	6.83
173. CR (1) B 15 0.084	/***. BD*(1) C 1 - B 14	1.25	6.65
173. CR (1) B 15 0.067	/***. BD*(1) C 1 - B 15	0.80	6.76
173. CR (1) B 15 0.155	/***. BD*(1) C 10 - B 14	4.41	6.75
173. CR (1) B 15 0.084	/***. BD*(1) B 14 - B 15	1.28	6.80
173. CR (1) B 15 0.082	/***. BD*(1) C 16 - N 17	1.24	6.67
173. CR (1) B 15 0.095	/***. BD*(1) C 16 - N 20	1.67	6.67
174. CR (1) C 16 0.076	/423. RY*(2) B 15	0.64	11.17
174. CR (1) C 16 0.068	/452. RY*(3) N 17	0.55	10.76
174. CR (1) C 16 0.106	/***. BD*(1) B 14 - B 15	1.35	10.29
174. CR (1) C 16 0.115	/***. BD*(1) B 15 - C 16	1.58	10.22
174. CR (1) C 16 0.068	/***. BD*(1) N 17 - C 18	0.57	10.14
174. CR (1) C 16 0.104	/***. BD*(1) N 17 - C 21	1.31	10.10
174. CR (1) C 16 0.068	/***. BD*(1) C 19 - N 20	0.56	10.14
174. CR (1) C 16 0.104	/***. BD*(1) N 20 - C 31	1.32	10.10
175. CR (1) N 17 0.112	/439. RY*(4) C 16	1.01	15.39
175. CR (1) N 17 0.108	/466. RY*(3) C 18	0.97	14.98
175. CR (1) N 17 0.091	/506. RY*(1) C 21	0.68	15.13
175. CR (1) N 17 0.084	/***. BD*(1) B 15 - C 16	0.60	14.28
176. CR (1) C 18 0.085	/452. RY*(3) N 17	0.85	10.75
176. CR (1) C 18 0.096	/479. RY*(2) C 19	1.03	11.08
176. CR (1) C 18 0.091	/480. RY*(3) C 19	0.96	10.88
176. CR (1) C 18 0.073	/***. RY*(1) H 63	0.58	11.59
176. CR (1) C 18 0.078	/***. BD*(1) C 16 - N 17	0.74	10.15
176. CR (1) C 18 0.098	/***. BD*(1) N 17 - C 21	1.17	10.08
176. CR (1) C 18 0.092	/***. BD*(1) C 18 - C 19	1.03	10.27
176. CR (1) C 18 0.090	/***. BD*(1) C 19 - H 64	1.01	10.11
177. CR (1) C 19 0.098	/465. RY*(2) C 18	1.09	11.13
177. CR (1) C 19 0.089	/466. RY*(3) C 18	0.91	10.91

177. CR (1) C 19 0.083	/494. RY*(3) N 20	0.80	10.83
177. CR (1) C 19 0.072	/***. RY*(1) H 64	0.56	11.56
177. CR (1) C 19 0.078	/***. BD*(1) C 16 - N 20	0.73	10.15
177. CR (1) C 19 0.093	/***. BD*(1) C 18 - C 19	1.04	10.27
177. CR (1) C 19 0.090	/***. BD*(1) C 18 - H 63	1.00	10.11
177. CR (1) C 19 0.096	/***. BD*(1) N 20 - C 31	1.12	10.08
178. CR (1) N 20 0.104	/480. RY*(3) C 19	0.90	14.96
178. CR (1) N 20 0.093	/646. RY*(1) C 31	0.71	15.18
178. CR (1) N 20 0.086	/***. BD*(1) B 15 - C 16	0.63	14.28
179. CR (1) C 21 0.085	/520. RY*(1) C 22	0.82	11.07
179. CR (1) C 21 0.066	/522. RY*(3) C 22	0.51	10.75
179. CR (1) C 21 0.094	/576. RY*(1) C 26	0.99	11.18
179. CR (1) C 21 0.092	/***. BD*(1) C 16 - N 17	1.03	10.13
179. CR (1) C 21 0.075	/***. BD*(1) N 17 - C 18	0.69	10.11
179. CR (1) C 21 0.080	/***. BD*(1) N 17 - C 21	0.79	10.07
179. CR (1) C 21 0.067	/***. BD*(1) C 21 - C 22	0.53	10.23
179. CR (1) C 21 0.067	/***. BD*(1) C 21 - C 26	0.54	10.23
179. CR (1) C 21 0.079	/***. BD*(1) C 22 - C 27	0.77	10.11
179. CR (1) C 21 0.082	/***. BD*(1) C 26 - C 29	0.83	10.10
180. CR (1) C 22 0.088	/508. RY*(3) C 21	0.91	10.72
180. CR (1) C 22 0.083	/535. RY*(2) C 23	0.82	10.59
180. CR (1) C 22 0.072	/536. RY*(3) C 23	0.61	10.58
180. CR (1) C 22 0.067	/592. RY*(3) C 27	0.50	11.24
180. CR (1) C 22 0.085	/***. BD*(1) N 17 - C 21	0.88	10.03
180. CR (1) C 22 0.085	/***. BD*(1) C 21 - C 26	0.88	10.19
180. CR (1) C 22 0.068	/***. BD*(1) C 23 - C 24	0.57	10.23
181. CR (1) C 23 0.118	/522. RY*(3) C 22	1.62	10.69
181. CR (1) C 23 0.110	/549. RY*(2) C 24	1.40	10.93
181. CR (1) C 23 0.069	/***. RY*(2) H 67	0.50	11.95
181. CR (1) C 23 0.068	/***. BD*(1) C 21 - C 22	0.55	10.18
181. CR (1) C 23 0.080	/***. BD*(1) C 22 - C 27	0.78	10.06
181. CR (1) C 23 0.068	/***. BD*(1) C 24 - C 25	0.56	10.21
182. CR (1) C 24 0.080	/535. RY*(2) C 23	0.76	10.58
182. CR (1) C 24 0.102	/563. RY*(2) C 25	1.20	10.83
182. CR (1) C 24 0.074	/***. BD*(1) C 22 - C 23	0.66	10.21

182. CR (1) C 24 0.073	/***. BD*(1) C 25 - C 26	0.64	10.20
183. CR (1) C 25 0.117	/549. RY*(2) C 24	1.56	10.93
183. CR (1) C 25 0.115	/578. RY*(3) C 26	1.54	10.79
183. CR (1) C 25 0.068	/***. BD*(1) C 21 - C 26	0.56	10.18
183. CR (1) C 25 0.066	/***. BD*(1) C 23 - C 24	0.53	10.22
183. CR (1) C 25 0.078	/***. BD*(1) C 26 - C 29	0.75	10.05
184. CR (1) C 26 0.096	/508. RY*(3) C 21	1.09	10.72
184. CR (1) C 26 0.107	/563. RY*(2) C 25	1.33	10.84
184. CR (1) C 26 0.083	/619. RY*(2) C 29	0.76	11.31
184. CR (1) C 26 0.083	/***. BD*(1) N 17 - C 21	0.85	10.03
184. CR (1) C 26 0.085	/***. BD*(1) C 21 - C 22	0.87	10.20
184. CR (1) C 26 0.067	/***. BD*(1) C 24 - C 25	0.55	10.23
185. CR (1) C 27 0.090	/520. RY*(1) C 22	0.92	11.04
185. CR (1) C 27 0.076	/606. RY*(3) C 28	0.67	10.88
185. CR (1) C 27 0.077	/***. RY*(3) C 62	0.68	10.82
185. CR (1) C 27 0.072	/***. BD*(1) C 21 - C 22	0.62	10.20
185. CR (1) C 27 0.067	/***. BD*(1) C 22 - C 23	0.55	10.22
186. CR (1) C 28 0.071	/591. RY*(2) C 27	0.58	10.75
186. CR (1) C 28 0.072	/594. RY*(5) C 27	0.58	11.19
187. CR (1) C 29 0.087	/576. RY*(1) C 26	0.86	11.15
187. CR (1) C 29 0.077	/634. RY*(3) C 30	0.69	10.78
187. CR (1) C 29 0.074	/***. RY*(3) C 61	0.64	10.56
187. CR (1) C 29 0.073	/***. BD*(1) C 21 - C 26	0.65	10.21
187. CR (1) C 29 0.064	/***. BD*(1) C 25 - C 26	0.50	10.22
188. CR (1) C 30 0.069	/620. RY*(3) C 29	0.55	10.77
188. CR (1) C 30 0.074	/***. RY*(2) H 93	0.59	11.53
189. CR (1) C 31 0.090	/660. RY*(1) C 32	0.91	11.19
189. CR (1) C 31 0.093	/716. RY*(1) C 36	0.97	11.17
189. CR (1) C 31 0.092	/***. BD*(1) C 16 - N 20	1.03	10.14
189. CR (1) C 31 0.074	/***. BD*(1) C 19 - N 20	0.67	10.11
189. CR (1) C 31 0.077	/***. BD*(1) N 20 - C 31	0.73	10.07
189. CR (1) C 31 0.065	/***. BD*(1) C 31 - C 32	0.51	10.23
189. CR (1) C 31 0.067	/***. BD*(1) C 31 - C 36	0.54	10.24
189. CR (1) C 31 0.080	/***. BD*(1) C 32 - C 37	0.79	10.10
189. CR (1) C 31 0.080	/***. BD*(1) C 36 - C 39	0.78	10.11

190. CR (1) C 32 0.098	/648. RY*(3) C 31	1.11	10.84
190. CR (1) C 32 0.090	/675. RY*(2) C 33	0.94	10.67
190. CR (1) C 32 0.080	/731. RY*(2) C 37	0.72	11.30
190. CR (1) C 32 0.083	/***. BD*(1) N 20 - C 31	0.84	10.04
190. CR (1) C 32 0.084	/***. BD*(1) C 31 - C 36	0.86	10.20
190. CR (1) C 32 0.068	/***. BD*(1) C 33 - C 34	0.56	10.23
191. CR (1) C 33 0.090	/661. RY*(2) C 32	0.94	10.66
191. CR (1) C 33 0.087	/662. RY*(3) C 32	0.90	10.61
191. CR (1) C 33 0.114	/689. RY*(2) C 34	1.49	10.93
191. CR (1) C 33 0.070	/***. RY*(2) H 70	0.51	11.96
191. CR (1) C 33 0.066	/***. BD*(1) C 31 - C 32	0.53	10.18
191. CR (1) C 33 0.079	/***. BD*(1) C 32 - C 37	0.76	10.05
191. CR (1) C 33 0.068	/***. BD*(1) C 34 - C 35	0.56	10.22
192. CR (1) C 34 0.083	/675. RY*(2) C 33	0.82	10.67
192. CR (1) C 34 0.102	/703. RY*(2) C 35	1.21	10.82
192. CR (1) C 34 0.072	/***. BD*(1) C 32 - C 33	0.64	10.20
192. CR (1) C 34 0.073	/***. BD*(1) C 35 - C 36	0.64	10.20
193. CR (1) C 35 0.114	/689. RY*(2) C 34	1.48	10.93
193. CR (1) C 35 0.121	/717. RY*(2) C 36	1.70	10.85
193. CR (1) C 35 0.067	/***. BD*(1) C 31 - C 36	0.54	10.19
193. CR (1) C 35 0.067	/***. BD*(1) C 33 - C 34	0.55	10.21
193. CR (1) C 35 0.078	/***. BD*(1) C 36 - C 39	0.75	10.06
194. CR (1) C 36 0.096	/648. RY*(3) C 31	1.07	10.84
194. CR (1) C 36 0.108	/703. RY*(2) C 35	1.35	10.83
194. CR (1) C 36 0.076	/759. RY*(2) C 39	0.65	11.31
194. CR (1) C 36 0.083	/***. BD*(1) N 20 - C 31	0.85	10.04
194. CR (1) C 36 0.085	/***. BD*(1) C 31 - C 32	0.87	10.19
194. CR (1) C 36 0.068	/***. BD*(1) C 34 - C 35	0.56	10.23
195. CR (1) C 37 0.088	/660. RY*(1) C 32	0.86	11.16
195. CR (1) C 37 0.080	/746. RY*(3) C 38	0.74	10.80
195. CR (1) C 37 0.074	/983. RY*(3) C 55	0.65	10.67
195. CR (1) C 37 0.071	/***. BD*(1) C 31 - C 32	0.62	10.20
195. CR (1) C 37 0.066	/***. BD*(1) C 32 - C 33	0.53	10.22
196. CR (1) C 38 0.074	/***. RY*(2) H 105	0.60	11.52
197. CR (1) C 39 0.088	/716. RY*(1) C 36	0.87	11.14

197. CR (1) C 39 0.077	/774. RY*(3) C 40	0.69	10.85
197. CR (1) C 39 0.076	/997. RY*(3) C 56	0.69	10.60
197. CR (1) C 39 0.072	/***. BD*(1) C 31 - C 36	0.63	10.20
197. CR (1) C 39 0.067	/***. BD*(1) C 35 - C 36	0.54	10.22
198. CR (1) C 40 0.074	/***. RY*(2) H 99	0.59	11.54
198. CR (1) C 40 0.068	/***. RY*(2) H 101	0.50	11.66
199. CR (1) C 41 0.080	/799. RY*(1) C 42	0.72	11.15
199. CR (1) C 41 0.080	/800. RY*(2) C 42	0.74	10.83
199. CR (1) C 41 0.091	/855. RY*(1) C 46	0.93	11.17
199. CR (1) C 41 0.070	/856. RY*(2) C 46	0.57	10.91
199. CR (1) C 41 0.092	/***. BD*(1) C 10 - N 11	1.02	10.12
199. CR (1) C 41 0.074	/***. BD*(1) N 11 - C 12	0.66	10.12
199. CR (1) C 41 0.076	/***. BD*(1) N 11 - C 41	0.70	10.08
199. CR (1) C 41 0.078	/***. BD*(1) C 42 - C 47	0.74	10.11
199. CR (1) C 41 0.065	/***. BD*(1) C 45 - C 46	0.52	10.25
199. CR (1) C 41 0.081	/***. BD*(1) C 46 - C 49	0.81	10.10
200. CR (1) C 42 0.094	/788. RY*(3) C 41	0.99	11.20
200. CR (1) C 42 0.069	/814. RY*(2) C 43	0.57	10.48
200. CR (1) C 42 0.082	/815. RY*(3) C 43	0.78	10.63
200. CR (1) C 42 0.073	/870. RY*(2) C 47	0.62	10.86
200. CR (1) C 42 0.081	/***. BD*(1) N 11 - C 41	0.80	10.04
200. CR (1) C 42 0.239	/***. BD*(2) N 11 - C 41	5.16	10.73
200. CR (1) C 42 0.069	/***. BD*(1) C 43 - C 44	0.59	10.22
201. CR (1) C 43 0.112	/800. RY*(2) C 42	1.47	10.78
201. CR (1) C 43 0.112	/828. RY*(2) C 44	1.43	10.92
201. CR (1) C 43 0.072	/***. RY*(2) H 75	0.55	11.95
201. CR (1) C 43 0.077	/***. BD*(1) C 42 - C 47	0.74	10.06
201. CR (1) C 43 0.068	/***. BD*(1) C 44 - C 45	0.56	10.21
202. CR (1) C 44 0.085	/815. RY*(3) C 43	0.86	10.63
202. CR (1) C 44 0.102	/842. RY*(2) C 45	1.22	10.84
202. CR (1) C 44 0.073	/***. BD*(1) C 42 - C 43	0.66	10.21
202. CR (1) C 44 0.073	/***. BD*(1) C 45 - C 46	0.65	10.20
203. CR (1) C 45 0.116	/828. RY*(2) C 44	1.55	10.92
203. CR (1) C 45 0.127	/856. RY*(2) C 46	1.86	10.86
203. CR (1) C 45 0.067	/***. BD*(1) C 43 - C 44	0.55	10.22

203. 0.077	CR (1) C 45	/***. BD*(1) C 46 - C 49	0.73	10.05
204. 0.096	CR (1) C 46	/788. RY*(3) C 41	1.04	11.21
204. 0.107	CR (1) C 46	/842. RY*(2) C 45	1.33	10.85
204. 0.084	CR (1) C 46	/898. RY*(2) C 49	0.79	11.24
204. 0.085	CR (1) C 46	/***. BD*(1) N 11 - C 41	0.89	10.05
204. 0.235	CR (1) C 46	/***. BD*(2) N 11 - C 41	4.99	10.74
204. 0.068	CR (1) C 46	/***. BD*(1) C 44 - C 45	0.56	10.23
205. 0.091	CR (1) C 47	/799. RY*(1) C 42	0.93	11.10
205. 0.074	CR (1) C 47	/885. RY*(3) C 48	0.64	10.83
205. 0.075	CR (1) C 47	/***. RY*(3) C 57	0.65	10.84
205. 0.067	CR (1) C 47	/***. BD*(1) C 41 - C 42	0.53	10.37
205. 0.068	CR (1) C 47	/***. BD*(1) C 42 - C 43	0.56	10.21
206. 0.072	CR (1) C 48	/871. RY*(3) C 47	0.61	10.79
207. 0.088	CR (1) C 49	/855. RY*(1) C 46	0.88	11.14
207. 0.074	CR (1) C 49	/913. RY*(3) C 50	0.64	10.79
207. 0.075	CR (1) C 49	/***. RY*(3) C 58	0.66	10.58
207. 0.068	CR (1) C 49	/***. BD*(1) C 41 - C 46	0.56	10.39
207. 0.065	CR (1) C 49	/***. BD*(1) C 45 - C 46	0.52	10.22
208. 0.073	CR (1) C 50	/***. RY*(2) H 129	0.58	11.55
209. 0.087	CR (1) C 51	/282. RY*(1) C 5	0.86	11.15
209. 0.076	CR (1) C 51	/941. RY*(3) C 52	0.67	10.78
209. 0.069	CR (1) C 51	/***. RY*(3) C 59	0.56	10.62
209. 0.072	CR (1) C 51	/***. BD*(1) C 4 - C 5	0.63	10.21
209. 0.065	CR (1) C 51	/***. BD*(1) C 5 - C 6	0.51	10.22
210. 0.078	CR (1) C 52	/927. RY*(3) C 51	0.72	10.71
210. 0.074	CR (1) C 52	/***. RY*(2) H 114	0.59	11.53
211. 0.090	CR (1) C 53	/254. RY*(1) C 3	0.92	11.09
211. 0.075	CR (1) C 53	/969. RY*(3) C 54	0.65	10.86
211. 0.080	CR (1) C 53	/***. RY*(3) C 60	0.73	10.86
211. 0.071	CR (1) C 53	/***. BD*(1) C 3 - C 4	0.61	10.19
211. 0.069	CR (1) C 53	/***. BD*(1) C 3 - C 8	0.58	10.21
212. 0.069	CR (1) C 54	/955. RY*(3) C 53	0.55	10.90
213. 0.078	CR (1) C 55	/732. RY*(3) C 37	0.72	10.77
214. 0.083	CR (1) C 56	/760. RY*(3) C 39	0.81	10.82
215. 0.070	CR (1) C 57	/870. RY*(2) C 47	0.57	10.84

216. CR (1) C 58 0.072	/899. RY*(3) C 49	0.60	10.70
216. CR (1) C 58 0.076	/***. RY*(2) H 133	0.60	12.10
217. CR (1) C 59 0.068	/927. RY*(3) C 51	0.54	10.71
217. CR (1) C 59 0.071	/***. RY*(3) H 111	0.55	11.53
218. CR (1) C 60 0.078	/954. RY*(2) C 53	0.71	10.82
218. CR (1) C 60 0.077	/***. RY*(2) H 121	0.61	12.11
219. CR (1) C 61 0.075	/620. RY*(3) C 29	0.66	10.76
219. CR (1) C 61 0.075	/***. RY*(2) H 97	0.58	12.14
221. LP (1) O 2 0.131	/226. RY*(1) C 1	13.44	1.59
221. LP (1) O 2 0.045	/232. RY*(7) C 1	0.82	2.98
221. LP (1) O 2 0.049	/***. BD*(1) C 1 - B 14	3.25	0.91
221. LP (1) O 2 0.070	/***. BD*(1) C 1 - B 15	5.86	1.02
222. LP (2) O 2 0.060	/228. RY*(3) C 1	1.64	2.41
222. LP (2) O 2 0.028	/230. RY*(5) C 1	0.82	1.06
222. LP (2) O 2 0.089	/***. BD*(1) C 1 - B 14	18.75	0.49
222. LP (2) O 2 0.070	/***. BD*(1) C 1 - B 15	9.06	0.61
222. LP (2) O 2 0.017	/***. BD*(1) C 47 - H 80	0.61	0.51
223. LP*(1) B 14 0.046	/410. RY*(3) B 14	1.20	0.65
223. LP*(1) B 14 0.050	/417. RY*(10) B 14	0.54	1.70
223. LP*(1) B 14 0.068	/***. BD*(2) C 1 - O 2	237.18	0.01
223. LP*(1) B 14 0.020	/***. BD*(1) C 1 - B 14	0.60	0.30
223. LP*(1) B 14 0.084	/***. BD*(1) N 9 - C 10	8.70	0.32
223. LP*(1) B 14 0.082	/***. BD*(1) C 10 - N 11	8.35	0.32
223. LP*(1) B 14 0.027	/***. BD*(1) B 14 - B 15	0.63	0.46
224. LP (1) B 15 0.052	/227. RY*(2) C 1	0.62	2.04
224. LP (1) B 15 0.040	/424. RY*(3) B 15	0.96	0.79
224. LP (1) B 15 0.090	/***. BD*(2) C 1 - O 2	438.96	0.01
224. LP (1) B 15 0.022	/***. BD*(1) C 16 - N 17	0.76	0.33
224. LP (1) B 15 0.033	/***. BD*(1) C 16 - N 20	1.68	0.33
225. LP (1) N 20 0.040	/441. RY*(6) C 16	0.80	1.89
225. LP (1) N 20 0.048	/478. RY*(1) C 19	2.66	0.85
225. LP (1) N 20 0.035	/648. RY*(3) C 31	0.90	1.34
225. LP (1) N 20 0.090	/***. BD*(2) C 16 - N 17	50.02	0.19
225. LP (1) N 20 0.071	/***. BD*(2) C 18 - C 19	26.50	0.22
225. LP (1) N 20 0.061	/***. BD*(1) C 31 - C 32	5.29	0.69

225.	LP (1) N 20	/***. BD*(1) C 31 - C 36	5.28	0.70
0.061	***. BD*(2) C 1 - O 2	/227. RY*(2) C 1	2.63	2.02
0.132	***. BD*(2) C 1 - O 2	/231. RY*(6) C 1	1.61	0.54
0.054	***. BD*(2) C 1 - O 2	/241. RY*(2) O 2	2.79	0.74
0.083	***. BD*(2) C 1 - O 2	/247. RY*(8) O 2	0.52	2.94
0.071	***. BD*(1) C 1 - B 14	/411. RY*(4) B 14	0.70	0.88
0.094	***. BD*(1) C 1 - B 14	/***. BD*(1) C 1 - O 2	0.72	0.18
0.037	***. BD*(1) C 1 - B 14	/***. BD*(1) C 10 - N 11	1.07	0.01
0.012	***. BD*(1) C 1 - B 14	/***. BD*(1) B 14 - B 15	3.51	0.15
0.075	***. BD*(1) C 1 - B 14	/***. BD*(1) C 16 - N 20	0.65	0.02
0.011	***. BD*(1) C 1 - B 14	/***. BD*(1) C 47 - H 80	0.53	0.02
0.012	***. BD*(1) C 1 - B 14	/***. BD*(1) C 55 - H 110	0.57	0.01
0.010	***. BD*(1) C 1 - B 14	/***. BD*(1) C 58 - H 133	0.58	0.01
0.010	***. BD*(2) C 3 - C 8	/326. RY*(3) C 8	1.18	0.71
0.063	***. BD*(2) C 3 - C 8	/***. BD*(1) C 53 - C 54	1.65	0.28
0.046	***. BD*(2) C 3 - C 8	/***. BD*(1) C 53 - C 60	0.62	0.30
0.029	***. BD*(2) C 4 - C 5	/223. LP*(1) B 14	3.85	0.02
0.011	***. BD*(2) C 4 - C 5	/269. RY*(2) C 4	0.57	0.74
0.042	***. BD*(2) C 4 - C 5	/298. RY*(3) C 6	0.64	0.53
0.038	***. BD*(2) C 4 - C 5	/***. BD*(1) N 9 - C 10	1.57	0.34
0.045	***. BD*(2) C 4 - C 5	/***. BD*(1) N 9 - C 13	1.46	0.33
0.044	***. BD*(2) C 4 - C 5	/***. BD*(1) C 51 - C 52	1.35	0.27
0.039	***. BD*(2) C 4 - C 5	/***. BD*(1) C 51 - C 59	1.38	0.28
0.040	***. BD*(2) C 6 - C 7	/298. RY*(3) C 6	0.97	0.54
0.050	***. BD*(2) C 6 - C 7	/312. RY*(3) C 7	1.84	0.54
0.069	***. BD*(2) N 9 - C 10	/223. LP*(1) B 14	0.85	0.07
0.009	***. BD*(2) N 9 - C 10	/353. RY*(2) C 10	2.17	1.51
0.085	***. BD*(2) N 9 - C 10	/355. RY*(4) C 10	0.79	1.63
0.053	***. BD*(2) N 9 - C 10	/***. BD*(1) C 1 - B 14	6.21	0.38
0.067	***. BD*(2) N 9 - C 10	/***. BD*(1) C 3 - C 4	1.04	0.50
0.033	***. BD*(2) N 9 - C 10	/***. BD*(1) C 4 - C 5	1.34	0.50
0.038	***. BD*(2) N 9 - C 10	/***. BD*(2) C 12 - C 13	23.04	0.03
0.035	***. BD*(2) N 9 - C 10	/***. BD*(1) B 14 - B 15	1.29	0.53
0.038	***. BD*(2) N 11 - C 41	/226. RY*(1) C 1	0.68	0.02
0.006	***. BD*(2) N 11 - C 41	/257. RY*(4) C 3	0.86	0.04
0.011				

0.082	***. BD*(2) N 11 - C 41	/372. RY*(7) N 11	1.35	1.41
0.017	***. BD*(2) N 11 - C 41	/409. RY*(2) B 14	0.63	0.13
0.025	***. BD*(2) N 11 - C 41	/411. RY*(4) B 14	0.85	0.22
0.291	***. BD*(2) N 11 - C 41	/788. RY*(3) C 41	51.35	0.47
0.211	***. BD*(2) N 11 - C 41	/789. RY*(4) C 41	20.91	0.61
0.094	***. BD*(2) N 11 - C 41	/790. RY*(5) C 41	3.41	0.74
0.143	***. BD*(2) N 11 - C 41	/792. RY*(7) C 41	9.88	0.59
0.092	***. BD*(2) N 11 - C 41	/793. RY*(8) C 41	3.99	0.61
0.489	***. BD*(2) N 11 - C 41	/794. RY*(9) C 41	85.13	0.80
0.028	***. BD*(2) N 11 - C 41	/799. RY*(1) C 42	0.60	0.37
0.066	***. BD*(2) N 11 - C 41	/800. RY*(2) C 42	21.69	0.06
0.088	***. BD*(2) N 11 - C 41	/802. RY*(4) C 42	132.45	0.02
0.098	***. BD*(2) N 11 - C 41	/805. RY*(7) C 42	3.22	0.85
0.052	***. BD*(2) N 11 - C 41	/808. RY*(10) C 42	0.56	1.40
0.135	***. BD*(2) N 11 - C 41	/809. RY*(11) C 42	3.94	1.33
0.084	***. BD*(2) N 11 - C 41	/811. RY*(13) C 42	1.44	1.40
0.037	***. BD*(2) N 11 - C 41	/813. RY*(1) C 43	0.94	0.43
0.061	***. BD*(2) N 11 - C 41	/816. RY*(4) C 43	3.35	0.32
0.046	***. BD*(2) N 11 - C 41	/819. RY*(7) C 43	0.78	0.76
0.051	***. BD*(2) N 11 - C 41	/824. RY*(12) C 43	0.69	1.06
0.038	***. BD*(2) N 11 - C 41	/828. RY*(2) C 44	2.11	0.19
0.070	***. BD*(2) N 11 - C 41	/832. RY*(6) C 44	0.98	1.42
0.017	***. BD*(2) N 11 - C 41	/835. RY*(9) C 44	0.79	0.11
0.043	***. BD*(2) N 11 - C 41	/842. RY*(2) C 45	4.76	0.11
0.062	***. BD*(2) N 11 - C 41	/844. RY*(4) C 45	3.37	0.32
0.042	***. BD*(2) N 11 - C 41	/848. RY*(8) C 45	0.80	0.62
0.031	***. BD*(2) N 11 - C 41	/850. RY*(10) C 45	0.57	0.48
0.061	***. BD*(2) N 11 - C 41	/853. RY*(13) C 45	0.70	1.53
0.068	***. BD*(2) N 11 - C 41	/855. RY*(1) C 46	3.36	0.40
0.066	***. BD*(2) N 11 - C 41	/856. RY*(2) C 46	9.01	0.14
0.043	***. BD*(2) N 11 - C 41	/860. RY*(6) C 46	0.67	0.77
0.054	***. BD*(2) N 11 - C 41	/861. RY*(7) C 46	1.05	0.78
0.048	***. BD*(2) N 11 - C 41	/864. RY*(10) C 46	0.57	1.18
0.119	***. BD*(2) N 11 - C 41	/865. RY*(11) C 46	2.79	1.45
0.054	***. BD*(2) N 11 - C 41	/866. RY*(12) C 46	1.40	0.58

0.110	***. BD* (2) N 11 - C 41	/867. RY* (13) C 46	2.37	1.45
0.026	***. BD* (2) N 11 - C 41	/869. RY* (1) C 47	3.62	0.06
0.046	***. BD* (2) N 11 - C 41	/870. RY* (2) C 47	4.69	0.13
0.017	***. BD* (2) N 11 - C 41	/871. RY* (3) C 47	1.04	0.08
0.038	***. BD* (2) N 11 - C 41	/890. RY* (8) C 48	0.51	0.79
0.027	***. BD* (2) N 11 - C 41	/897. RY* (1) C 49	1.81	0.12
0.043	***. BD* (2) N 11 - C 41	/898. RY* (2) C 49	1.02	0.51
0.021	***. BD* (2) N 11 - C 41	/902. RY* (6) C 49	0.63	0.19
0.056	***. BD* (2) N 11 - C 41	/903. RY* (7) C 49	0.88	1.02
0.057	***. BD* (2) N 11 - C 41	/907. RY* (11) C 49	0.99	0.94
0.015	***. BD* (2) N 11 - C 41	/913. RY* (3) C 50	1.46	0.04
0.031	***. BD* (2) N 11 - C 41	/***. RY* (8) C 58	0.71	0.38
0.019	***. BD* (2) N 11 - C 41	/***. RY* (1) H 127	1.27	0.09
0.074	***. BD* (2) C 12 - C 13	/384. RY* (5) C 12	0.54	1.78
0.073	***. BD* (2) C 12 - C 13	/398. RY* (5) C 13	0.53	1.78
0.011	***. BD* (2) C 16 - N 17	/223. LP* (1) B 14	1.11	0.09
0.083	***. BD* (2) C 16 - N 17	/224. LP (1) B 15	68.17	0.09
0.074	***. BD* (2) C 16 - N 17	/437. RY* (2) C 16	1.61	1.30
0.063	***. BD* (2) C 16 - N 17	/438. RY* (3) C 16	1.00	1.51
0.037	***. BD* (2) C 16 - N 17	/***. BD* (2) C 18 - C 19	28.64	0.03
0.035	***. BD* (2) C 16 - N 17	/***. BD* (1) C 21 - C 22	0.95	0.51
0.037	***. BD* (2) C 16 - N 17	/***. BD* (1) C 21 - C 26	1.10	0.51
0.072	***. BD* (2) C 18 - C 19	/468. RY* (5) C 18	0.53	1.77
0.072	***. BD* (2) C 18 - C 19	/482. RY* (5) C 19	0.51	1.77
0.042	***. BD* (2) C 21 - C 26	/507. RY* (2) C 21	0.58	0.75
0.038	***. BD* (2) C 21 - C 26	/564. RY* (3) C 25	0.63	0.56
0.044	***. BD* (2) C 21 - C 26	/***. BD* (1) C 16 - N 17	1.55	0.35
0.043	***. BD* (2) C 21 - C 26	/***. BD* (1) N 17 - C 18	1.48	0.33
0.039	***. BD* (2) C 21 - C 26	/***. BD* (1) C 29 - C 30	1.41	0.27
0.040	***. BD* (2) C 21 - C 26	/***. BD* (1) C 29 - C 61	1.42	0.28
0.058	***. BD* (2) C 22 - C 23	/536. RY* (3) C 23	0.84	0.83
0.045	***. BD* (2) C 22 - C 23	/***. BD* (1) C 27 - C 28	1.64	0.27
0.028	***. BD* (2) C 22 - C 23	/***. BD* (1) C 27 - C 62	0.59	0.29
0.074	***. BD* (2) C 24 - C 25	/550. RY* (3) C 24	2.03	0.57
0.051	***. BD* (2) C 24 - C 25	/564. RY* (3) C 25	0.98	0.57

0.043	***. BD* (2) C 31 - C 36	/647. RY* (2) C 31	0.60	0.74
0.036	***. BD* (2) C 31 - C 36	/704. RY* (3) C 35	0.52	0.58
0.044	***. BD* (2) C 31 - C 36	/***. BD* (1) C 16 - N 20	1.49	0.35
0.043	***. BD* (2) C 31 - C 36	/***. BD* (1) C 19 - N 20	1.42	0.33
0.041	***. BD* (2) C 31 - C 36	/***. BD* (1) C 39 - C 40	1.46	0.28
0.037	***. BD* (2) C 31 - C 36	/***. BD* (1) C 39 - C 56	1.16	0.29
0.061	***. BD* (2) C 32 - C 33	/676. RY* (3) C 33	1.07	0.73
0.038	***. BD* (2) C 32 - C 33	/***. BD* (1) C 37 - C 38	1.17	0.28
0.044	***. BD* (2) C 32 - C 33	/***. BD* (1) C 37 - C 55	1.56	0.28
0.074	***. BD* (2) C 34 - C 35	/690. RY* (3) C 34	1.89	0.60
0.054	***. BD* (2) C 34 - C 35	/704. RY* (3) C 35	1.03	0.59
0.054	***. BD* (2) C 41 - C 46	/787. RY* (2) C 41	0.90	0.76
0.061	***. BD* (2) C 41 - C 46	/788. RY* (3) C 41	0.61	1.44
0.037	***. BD* (2) C 41 - C 46	/843. RY* (3) C 45	0.66	0.50
0.045	***. BD* (2) C 41 - C 46	/***. BD* (1) C 10 - N 11	1.64	0.32
0.044	***. BD* (2) C 41 - C 46	/***. BD* (1) N 11 - C 12	1.52	0.31
0.134	***. BD* (2) C 41 - C 46	/***. BD* (2) N 11 - C 41	9.60	0.97
0.060	***. BD* (2) C 41 - C 46	/***. BD* (1) C 41 - C 42	1.49	0.61
0.057	***. BD* (2) C 41 - C 46	/***. BD* (1) C 41 - C 46	1.33	0.61
0.039	***. BD* (2) C 41 - C 46	/***. BD* (1) C 49 - C 50	1.48	0.26
0.038	***. BD* (2) C 41 - C 46	/***. BD* (1) C 49 - C 58	1.38	0.26
0.054	***. BD* (2) C 42 - C 43	/814. RY* (2) C 43	0.84	0.73
0.046	***. BD* (2) C 42 - C 43	/815. RY* (3) C 43	0.50	0.89
0.068	***. BD* (2) C 42 - C 43	/***. BD* (2) C 41 - C 46	154.33	0.01
0.046	***. BD* (2) C 42 - C 43	/***. BD* (1) C 47 - C 48	1.65	0.28
0.027	***. BD* (2) C 42 - C 43	/***. BD* (1) C 47 - C 57	0.53	0.29
0.072	***. BD* (2) C 44 - C 45	/829. RY* (3) C 44	1.93	0.57
0.050	***. BD* (2) C 44 - C 45	/843. RY* (3) C 45	1.01	0.52
0.069	***. BD* (2) C 44 - C 45	/***. BD* (2) C 41 - C 46	94.77	0.02

Natural Bond Orbitals (Summary):

NBO	Occupancy	Energy	Principal Delocalizations (geminal,vicinal,remote)
=====			
Molecular unit 1 (C55H72B2N4O)			
1. BD (1) C 1 - O 2	1.99525	-0.90192	1456 (g), 1455 (g), 226 (g) 422 (v)
2. BD (2) C 1 - O 2	1.98559	-0.25985	224 (v), 223 (v), 1454 (g)
3. BD (1) C 1 - B 14	1.68991	-0.31855	1485 (v), 1473 (v), 1456 (g) 1484 (g), 1455 (g), 240 (v)

4.	BD	(1)	C	1 - B	15	1.86978	242 (v) , 224 (v) , 1472 (v) , 229 (g) -0.40234 1476 (v) , 1455 (g) , 1488 (v) 1484 (g) , 1485 (g) , 223 (v) 1453 (g) , 240 (v) , 242 (v) , 430 (g) 436 (v) , 1456 (g) , 1487 (v) 413 (v) , 433 (g)
5.	BD	(1)	C	3 - C	4	1.96959	-0.62652 1465 (v) , 1471 (v) , 1461 (g) 1474 (v) , 1472 (v) , 1458 (g) 1582 (v) , 1473 (v) , 338 (v) 283 (v) , 1460 (g)
6.	BD	(1)	C	3 - C	8	1.97359	-0.62621 1463 (v) , 1470 (v) , 1469 (g) 1457 (g) , 311 (v) , 268 (v) 1583 (v) , 1460 (g) , 953 (v)
7.	BD	(2)	C	3 - C	8	1.63548	-0.21626 1467 (v) , 1462 (v) , 1581 (v) 312 (v) , 1582 (v) , 1583 (v)
8.	BD	(1)	C	3 - C	53	1.96975	-0.54124 1461 (v) , 1469 (v) , 268 (v) 1584 (v) , 1602 (v) , 324 (v) 1458 (g) , 1457 (g)
9.	BD	(1)	C	4 - C	5	1.96881	-0.63017 1460 (v) , 1468 (v) , 1457 (g) 1472 (v) , 1464 (g) , 1473 (v) 255 (v) , 338 (v) , 1474 (v) 1576 (v) , 1465 (g) , 1575 (v) 297 (v)
10.	BD	(2)	C	4 - C	5	1.66564	-0.22340 1459 (v) , 1467 (v) , 1472 (v) 1474 (v) , 1576 (v) , 1575 (v) 298 (v)
11.	BD	(1)	C	4 - N	9	1.98185	-0.70909 1458 (v) , 1464 (v) , 1475 (v) 1480 (v) , 1472 (g) , 352 (v) 254 (v) , 395 (v) , 1457 (g) , 282 (v) 1474 (g) , 1461 (g)
12.	BD	(1)	C	5 - C	6	1.97300	-0.62857 1463 (v) , 1470 (v) , 1466 (g) 1461 (g) , 1577 (v) , 311 (v) 268 (v) , 925 (v) , 1465 (g)
13.	BD	(1)	C	5 - C	51	1.96978	-0.55083 1457 (v) , 1466 (v) , 268 (v) 1578 (v) , 1599 (v) , 296 (v) 1461 (g) , 1464 (g)
14.	BD	(1)	C	6 - C	7	1.98099	-0.63543 1465 (v) , 1471 (v) , 1464 (g) 1469 (g) , 282 (v) , 325 (v) , 324 (v)
15.	BD	(2)	C	6 - C	7	1.67366	-0.22235 1462 (v) , 1459 (v)
16.	BD	(1)	C	6 - H	78	1.97545	-0.45586 1461 (v) , 1469 (v) , 282 (v) 310 (v)
17.	BD	(1)	C	7 - C	8	1.98085	-0.63266 1460 (v) , 1468 (v) , 1458 (g) 1466 (g) , 254 (v) , 297 (v)
18.	BD	(1)	C	7 - H	77	1.97757	-0.45528 1458 (v) , 1464 (v) , 324 (v) 296 (v) , 1168 (r)
19.	BD	(1)	C	8 - H	76	1.97490	-0.45077 1457 (v) , 1466 (v) , 254 (v) 310 (v)
20.	BD	(1)	N	9 - C	10	1.97311	-0.71918 1478 (v) , 1483 (v) , 1476 (g) 1462 (v) , 1484 (v) , 223 (v) 1463 (g) , 269 (v) , 1474 (g) 1461 (v) , 396 (v) , 1457 (v)
21.	BD	(2)	N	9 - C	10	1.85857	-0.28652 1481 (v) , 1461 (v) , 1457 (v) 394 (v) , 1455 (v) , 270 (v) 1484 (v)
22.	BD	(1)	N	9 - C	13	1.97621	-0.71960 1482 (v) , 1476 (v) , 1462 (v) 1457 (v) , 382 (v) , 1472 (g) 1463 (g) , 269 (v) , 1478 (r) 1480 (g) , 354 (v) , 352 (v) 1475 (v) , 355 (v)
23.	BD	(1)	C	10 - N	11	1.97446	-0.72168 1463 (v) , 1482 (v) , 1476 (g) 1478 (g) , 1477 (g) , 1551 (v) 787 (v) , 1484 (v) , 1550 (v) 382 (v) , 223 (v)
24.	BD	(1)	C	10 - B	14	1.96616	-0.51296 1474 (v) , 1477 (v) , 1484 (g) 422 (v) , 1472 (g) , 1475 (g) 1456 (v) , 416 (g) , 367 (v) , 413 (g) 1455 (g) , 1485 (v) , 339 (v) 338 (v) , 414 (g) , 411 (g) , 419 (g) 366 (v)
25.	BD	(1)	N	11 - C	12	1.97540	-0.71724 1483 (v) , 1476 (v) , 1551 (v) 354 (v) , 1549 (v) , 1475 (g)

					396 (v) , 1478 (g) , 352 (v) 1463 (r) , 1472 (v) , 787 (v) 1480 (g)
26.	BD (1) N 11 - C 41	1.98143			-0.70796 1552 (v) , 1560 (v) , 1472 (v) 1480 (v) , 1475 (g) , 1479 (g) 352 (v) , 799 (v) , 1550 (g) , 381 (v) 855 (v) , 1477 (g)
27.	BD (2) N 11 - C 41	1.60454			-0.22954 1473 (v) , 1481 (v) , 1550 (g) 1549 (g) , 380 (v) , 1479 (g) 1551 (g) , 358 (v) , 794 (g) , 788 (g) 1560 (v) , 1552 (v)
28.	BD (1) C 12 - C 13	1.97682			-0.66846 1463 (v) , 1478 (v) , 367 (v) 339 (v) , 1483 (g) , 1482 (g)
29.	BD (2) C 12 - C 13	1.91018			-0.24724 1473 (v)
30.	BD (1) C 12 - H 71	1.97879			-0.49868 1475 (v) , 1474 (v) , 367 (v) 395 (v) , 1480 (g)
31.	BD (1) C 13 - H 72	1.97878			-0.49877 1472 (v) , 1477 (v) , 339 (v) 381 (v) , 1480 (g)
32.	BD (1) B 14 - B 15	1.82710			-0.28824 1453 (v) , 1486 (v) , 1485 (g) 1455 (g) , 1456 (g) , 352 (v) 436 (v) , 1476 (g) , 408 (g) 1475 (v) , 1473 (v) , 355 (v) 1472 (v) , 226 (v) , 356 (v) , 419 (g) 432 (g) , 422 (g) , 411 (g) , 438 (v)
33.	BD (1) B 15 - C 16	1.95720			-0.50897 1484 (g) , 1489 (v) , 1494 (v) 408 (v) , 1456 (g) , 1476 (v) 1453 (v) , 450 (v) , 492 (v) 1455 (v) , 1488 (g) , 1486 (g) 430 (g) , 433 (g) , 436 (g) , 452 (v)
34.	BD (1) C 16 - N 17	1.97511			-0.74754 1496 (v) , 1493 (v) , 1485 (g) 1489 (g) , 1490 (g) , 1484 (v) 1499 (v) , 507 (v) , 1498 (v) 466 (v) , 492 (v) , 1497 (v)
35.	BD (2) C 16 - N 17	1.85625			-0.30884 1492 (v) , 224 (v) , 1497 (v) 1498 (v) , 464 (v) , 508 (v)
36.	BD (1) C 16 - N 20	1.97558			-0.75212 1490 (v) , 1495 (v) , 1485 (g) 1494 (g) , 1496 (g) , 1525 (v) 647 (v) , 480 (v) , 1523 (v) , 450 (v) 1524 (v)
37.	BD (1) N 17 - C 18	1.97731			-0.74361 1495 (v) , 1485 (v) , 1499 (v) 439 (v) , 1486 (g) , 1490 (g) 1497 (v) , 436 (v) , 480 (v) 1496 (r) , 507 (v) , 1488 (v) 1491 (g)
38.	BD (1) N 17 - C 21	1.98138			-0.71684 1500 (v) , 1508 (v) , 1488 (v) 1486 (g) , 436 (v) , 1491 (v) 465 (v) , 520 (v) , 1489 (g) , 576 (v) 1497 (g)
39.	BD (1) C 18 - C 19	1.97697			-0.68216 1490 (v) , 1496 (v) , 450 (v) 492 (v) , 1495 (g) , 1493 (g)
40.	BD (2) C 18 - C 19	1.87142			-0.26470 1487 (v)
41.	BD (1) C 18 - H 63	1.97977			-0.51490 1486 (v) , 1494 (v) , 450 (v) 479 (v) , 1491 (g)
42.	BD (1) C 19 - N 20	1.97686			-0.74244 1493 (v) , 1485 (v) , 1525 (v) 1488 (g) , 436 (v) , 1496 (g) 466 (v) , 1524 (v) , 438 (v) 1490 (r) , 647 (v) , 1486 (v) 1491 (g)
43.	BD (1) C 19 - H 64	1.98034			-0.51517 1488 (v) , 1489 (v) , 492 (v) 465 (v) , 1491 (g)
44.	BD (1) N 20 - C 31	1.98185			-0.72487 1534 (v) , 1526 (v) , 1486 (v) 1488 (g) , 436 (v) , 1491 (v) 479 (v) , 716 (v) , 1494 (g) 1524 (g) , 660 (v) , 1523 (g)
45.	BD (1) C 21 - C 22	1.96835			-0.63096 1510 (v) , 1504 (v) , 1498 (g) 1486 (v) , 1500 (g) , 1512 (v) 1489 (v) , 1487 (v) , 578 (v) 451 (v) , 1502 (g)
46.	BD (1) C 21 - C 26	1.96787			-0.63406 1502 (v) , 1509 (v) , 1497 (g) 1486 (v) , 1508 (g) , 1487 (v) 451 (v) , 522 (v) , 1489 (v)

47. BD (2) C 21 - C 26	1.67376	1510 (g) , 1517 (v) , 1518 (v) -0.22594 1501 (v) , 1506 (v) , 1486 (v) 1489 (v) , 1518 (v) , 1517 (v) 564 (v) , 521 (v)
48. BD (1) C 22 - C 23	1.97239	-0.62672 1490 (v) , 1507 (v) , 1503 (g) 1497 (g) , 549 (v) , 506 (v) 1513 (v) , 1502 (g) , 590 (v)
49. BD (2) C 22 - C 23	1.63022	-0.21455 1506 (v) , 1499 (v) , 1511 (v) 1513 (v) , 550 (v) , 1512 (v)
50. BD (1) C 22 - C 27	1.96962	-0.54713 1498 (v) , 1503 (v) , 1514 (v) 506 (v) , 1608 (v) , 534 (v) 1500 (g) , 1497 (g)
51. BD (1) C 23 - C 24	1.98062	-0.63148 1502 (v) , 1509 (v) , 1500 (g) 1505 (g) , 520 (v) , 563 (v)
52. BD (1) C 23 - H 67	1.97434	-0.44961 1497 (v) , 1505 (v) , 520 (v) 548 (v)
53. BD (1) C 24 - C 25	1.98089	-0.63462 1510 (v) , 1504 (v) , 1508 (g) 1503 (g) , 576 (v) , 535 (v) , 534 (v)
54. BD (2) C 24 - C 25	1.66929	-0.22093 1499 (v) , 1501 (v)
55. BD (1) C 24 - H 66	1.97747	-0.45366 1508 (v) , 1500 (v) , 534 (v) 562 (v) , 1113 (r) , 1103 (r)
56. BD (1) C 25 - C 26	1.97185	-0.62917 1490 (v) , 1507 (v) , 1498 (g) 1505 (g) , 1519 (v) , 549 (v) 506 (v) , 618 (v) , 1510 (g)
57. BD (1) C 25 - H 65	1.97514	-0.45543 1498 (v) , 1503 (v) , 576 (v) 548 (v)
58. BD (1) C 26 - C 29	1.96965	-0.55319 1497 (v) , 1505 (v) , 506 (v) 1520 (v) , 1605 (v) , 562 (v) 1508 (g) , 1498 (g)
59. BD (1) C 27 - C 28	1.97151	-0.52757 1501 (v) , 1610 (v) , 1497 (v) 1500 (v) , 521 (v) , 1079 (v)
60. BD (1) C 27 - C 62	1.97918	-0.52407 1497 (v) , 1515 (v) , 1501 (v) 1502 (g)
61. BD (1) C 27 - H 84	1.95937	-0.41115 1500 (v) , 1609 (v) , 1516 (v) 1501 (v)
62. BD (1) C 28 - H 90	1.98583	-0.43361 1502 (v)
63. BD (1) C 28 - H 91	1.98733	-0.43809 1512 (v)
64. BD (1) C 28 - H 92	1.98896	-0.43441 1513 (v)
65. BD (1) C 29 - C 30	1.97625	-0.53808 1499 (v) , 1498 (v) , 1606 (v) 577 (v) , 1510 (g)
66. BD (1) C 29 - C 61	1.97478	-0.53465 1499 (v) , 1498 (v) , 1522 (v) 1510 (g)
67. BD (1) C 29 - H 83	1.96477	-0.42514 1508 (v) , 1607 (v) , 1521 (v)
68. BD (1) C 30 - H 93	1.98638	-0.44097 1510 (v)
69. BD (1) C 30 - H 94	1.98825	-0.44229 1519 (v)
70. BD (1) C 30 - H 95	1.98830	-0.44198 1518 (v)
71. BD (1) C 31 - C 32	1.96778	-0.64047 1536 (v) , 1530 (v) , 1524 (g) 1488 (v) , 1526 (g) , 717 (v) 1537 (v) , 1494 (v) , 493 (v) 1528 (g)
72. BD (1) C 31 - C 36	1.96880	-0.64149 1528 (v) , 1535 (v) , 1523 (g) 1488 (v) , 1534 (g) , 1494 (v) 1544 (v) , 493 (v) , 1536 (g) 661 (v) , 703 (v) , 1543 (v)
73. BD (2) C 31 - C 36	1.65932	-0.23277 1527 (v) , 1532 (v) , 1488 (v) 1494 (v) , 1543 (v) , 1544 (v) 704 (v)
74. BD (1) C 32 - C 33	1.97272	-0.63809 1496 (v) , 1533 (v) , 1529 (g) 1523 (g) , 1539 (v) , 689 (v) 646 (v) , 730 (v) , 1528 (g)
75. BD (2) C 32 - C 33	1.64228	-0.22841 1532 (v) , 1525 (v) , 1538 (v) 1537 (v) , 690 (v)
76. BD (1) C 32 - C 37	1.97001	-0.55922 1524 (v) , 1529 (v) , 646 (v) 1587 (v) , 1540 (v) , 674 (v) 1526 (g) , 1523 (g)
77. BD (1) C 33 - C 34	1.98090	-0.64364 1528 (v) , 1535 (v) , 1526 (g) 1531 (g) , 660 (v) , 703 (v)
78. BD (1) C 33 - H 70	1.97515	-0.46347 1523 (v) , 1531 (v) , 660 (v) 688 (v)
79. BD (1) C 34 - C 35	1.98086	-0.64383 1536 (v) , 1530 (v) , 1534 (g) 1529 (g) , 716 (v)

80. BD (2) C 34 - C 35	1.66541	-0.23018 1525 (v), 1527 (v)
81. BD (1) C 34 - H 69	1.97730	-0.46349 1534 (v), 1526 (v), 702 (v) 674 (v), 1128 (x), 1118 (x)
82. BD (1) C 35 - C 36	1.97274	-0.63694 1496 (v), 1533 (v), 1524 (g) 1531 (g), 1545 (v), 689 (v) 646 (v), 1536 (g), 758 (v)
83. BD (1) C 35 - H 68	1.97505	-0.46194 1524 (v), 1529 (v), 716 (v) 688 (v)
84. BD (1) C 36 - C 39	1.96945	-0.55598 1523 (v), 1531 (v), 646 (v) 1546 (v), 1590 (v), 702 (v) 1534 (g), 1524 (g)
85. BD (1) C 37 - C 38	1.97786	-0.54302 1523 (v), 1527 (v), 1589 (v) 661 (v), 1528 (g)
86. BD (1) C 37 - C 55	1.97252	-0.53746 1527 (v), 1523 (v), 1541 (v) 662 (v), 1528 (g), 744 (v)
87. BD (1) C 37 - H 85	1.96378	-0.42874 1526 (v), 1542 (v), 1588 (v)
88. BD (1) C 38 - H 105	1.98608	-0.44367 1528 (v)
89. BD (1) C 38 - H 106	1.98876	-0.44508 1538 (v)
90. BD (1) C 38 - H 107	1.98837	-0.44651 1539 (v)
91. BD (1) C 39 - C 40	1.97424	-0.53674 1525 (v), 1524 (v), 1591 (v) 718 (v), 1536 (g)
92. BD (1) C 39 - C 56	1.97484	-0.53277 1524 (v), 1525 (v), 1548 (v) 1536 (g)
93. BD (1) C 39 - H 86	1.96388	-0.42166 1534 (v), 1592 (v), 1547 (v)
94. BD (1) C 40 - H 99	1.98600	-0.43985 1536 (v)
95. BD (1) C 40 - H 100	1.98848	-0.44199 1545 (v)
96. BD (1) C 40 - H 101	1.98843	-0.44171 1544 (v)
97. BD (1) C 41 - C 42	1.75785	-0.40643 1479 (g), 1550 (g), 1549 (g) 794 (g), 1551 (g), 788 (g), 789 (g) 1556 (v), 1562 (v), 792 (g) 1475 (v), 1564 (v), 1477 (v) 809 (g), 861 (v), 855 (v), 787 (g) 800 (g), 816 (v), 802 (g), 865 (v) 790 (g), 1560 (v), 805 (g), 867 (v) 815 (v), 1554 (g), 793 (g), 814 (v)
98. BD (1) C 41 - C 46	1.74502	-0.39338 1479 (g), 1549 (g), 1550 (g) 794 (g), 1551 (g), 788 (g), 789 (g) 1561 (v), 1554 (v), 1475 (v) 792 (g), 858 (g), 842 (v), 805 (v) 1478 (g), 787 (g), 865 (g), 844 (v) 855 (g), 856 (g), 1570 (v) 1569 (v), 809 (v), 1552 (v) 1562 (g), 898 (v), 1477 (v) 793 (g), 790 (g), 867 (g), 799 (v) 811 (v), 902 (v)
99. BD (2) C 41 - C 46	1.64949	-0.20314 1479 (g), 1553 (v), 1558 (v) 1549 (g), 1550 (g), 1475 (v) 1477 (v), 794 (g), 1569 (v) 1570 (v), 1551 (g), 843 (v) 788 (g), 789 (g)
100. BD (1) C 42 - C 43	1.97345	-0.62639 1478 (v), 1559 (v), 1555 (g) 1549 (g), 1479 (v), 828 (v) 786 (v), 1565 (v), 1554 (g) 869 (v)
101. BD (2) C 42 - C 43	1.63619	-0.21701 1558 (v), 1551 (v), 1563 (v) 829 (v), 1565 (v), 1564 (v)
102. BD (1) C 42 - C 47	1.96988	-0.54167 1479 (v), 1555 (v), 1550 (v) 786 (v), 1566 (v), 1593 (v) 813 (v), 1552 (g)
103. BD (1) C 43 - C 44	1.98096	-0.63321 1554 (v), 1561 (v), 1552 (g) 1557 (g), 799 (v), 842 (v)
104. BD (1) C 43 - H 75	1.97475	-0.45107 1557 (v), 1549 (v), 799 (v) 827 (v)
105. BD (1) C 44 - C 45	1.98096	-0.63649 1562 (v), 1556 (v), 1560 (g) 1555 (g), 855 (v), 813 (v)
106. BD (2) C 44 - C 45	1.67441	-0.22311 1551 (v), 1553 (v)
107. BD (1) C 44 - H 74	1.97752	-0.45579 1560 (v), 1552 (v), 841 (v) 813 (v), 1153 (x), 1143 (x)
108. BD (1) C 45 - C 46	1.97278	-0.62913 1478 (v), 1559 (v), 1550 (g) 1557 (g), 1571 (v), 1479 (v) 828 (v), 786 (v), 897 (v), 1562 (g)

109.	BD	(	1)	C	45	-	H	73	1.97534	-0.45630	1555 (v), 1550 (v), 855 (v)
110.	BD	(	1)	C	46	-	C	49	1.96959	-0.55162	1479 (v), 1557 (v), 1549 (v)
111.	BD	(	1)	C	47	-	C	48	1.96910	-0.51752	1553 (v), 1595 (v), 1552 (v)
112.	BD	(	1)	C	47	-	C	57	1.97975	-0.51944	1549 (v), 1567 (v), 800 (v)
113.	BD	(	1)	C	47	-	H	80	1.95741	-0.39872	1552 (v), 1594 (v), 1568 (v)
114.	BD	(	1)	C	48	-	H	126	1.98559	-0.42435	1554 (v)
115.	BD	(	1)	C	48	-	H	127	1.98706	-0.42894	1564 (v)
116.	BD	(	1)	C	48	-	H	128	1.98982	-0.42719	1565 (v)
117.	BD	(	1)	C	49	-	C	50	1.97532	-0.53535	1551 (v), 1550 (v), 1597 (v)
118.	BD	(	1)	C	49	-	C	58	1.97545	-0.53411	1551 (v), 1550 (v), 1574 (v)
119.	BD	(	1)	C	49	-	H	79	1.96417	-0.42156	1560 (v), 1598 (v), 1573 (v)
120.	BD	(	1)	C	50	-	H	129	1.98629	-0.43880	1562 (v)
121.	BD	(	1)	C	50	-	H	130	1.98839	-0.44053	1571 (v)
122.	BD	(	1)	C	50	-	H	131	1.98804	-0.43970	1570 (v)
123.	BD	(	1)	C	51	-	C	52	1.97541	-0.53517	1462 (v), 1461 (v), 1601 (v)
124.	BD	(	1)	C	51	-	C	59	1.97561	-0.53506	1462 (v), 1461 (v), 1579 (v)
125.	BD	(	1)	C	51	-	H	81	1.96408	-0.42206	1464 (v), 1600 (v), 1580 (v)
126.	BD	(	1)	C	52	-	H	114	1.98624	-0.43889	1465 (v)
127.	BD	(	1)	C	52	-	H	115	1.98831	-0.43949	1576 (v)
128.	BD	(	1)	C	52	-	H	116	1.98844	-0.44074	1577 (v)
129.	BD	(	1)	C	53	-	C	54	1.96921	-0.51830	1459 (v), 1603 (v), 1457 (v)
130.	BD	(	1)	C	53	-	C	60	1.97956	-0.51874	1457 (v), 1586 (v), 1459 (v)
131.	BD	(	1)	C	53	-	H	82	1.95860	-0.40000	1458 (v), 1604 (v), 1585 (v)
132.	BD	(	1)	C	54	-	H	117	1.98561	-0.42530	1460 (v)
133.	BD	(	1)	C	54	-	H	118	1.98955	-0.42769	1583 (v)
134.	BD	(	1)	C	54	-	H	119	1.98730	-0.42974	1582 (v)
135.	BD	(	1)	C	55	-	H	108	1.98449	-0.43488	1528 (v)
136.	BD	(	1)	C	55	-	H	109	1.98741	-0.43738	1539 (v)
137.	BD	(	1)	C	55	-	H	110	1.98644	-0.43170	1537 (v)
138.	BD	(	1)	C	56	-	H	102	1.98436	-0.42720	1536 (v)
139.	BD	(	1)	C	56	-	H	103	1.98632	-0.42387	1543 (v)
140.	BD	(	1)	C	56	-	H	104	1.98716	-0.43095	1545 (v)
141.	BD	(	1)	C	57	-	H	123	1.98474	-0.41620	1554 (v)
142.	BD	(	1)	C	57	-	H	124	1.98872	-0.42463	1565 (v)
143.	BD	(	1)	C	57	-	H	125	1.98684	-0.41864	1563 (v)
144.	BD	(	1)	C	58	-	H	132	1.98532	-0.43377	1562 (v)
145.	BD	(	1)	C	58	-	H	133	1.98713	-0.43197	1569 (v)
146.	BD	(	1)	C	58	-	H	134	1.98795	-0.43674	1571 (v)
147.	BD	(	1)	C	59	-	H	111	1.98540	-0.43476	1465 (v)
148.	BD	(	1)	C	59	-	H	112	1.98797	-0.43734	1577 (v)
149.	BD	(	1)	C	59	-	H	113	1.98638	-0.43257	1575 (v)
150.	BD	(	1)	C	60	-	H	120	1.98440	-0.41192	1460 (v)
151.	BD	(	1)	C	60	-	H	121	1.98692	-0.41430	1581 (v)
152.	BD	(	1)	C	60	-	H	122	1.98826	-0.42173	1583 (v)
153.	BD	(	1)	C	61	-	H	96	1.98496	-0.43294	1510 (v)
154.	BD	(	1)	C	61	-	H	97	1.98679	-0.43018	1517 (v)
155.	BD	(	1)	C	61	-	H	98	1.98764	-0.43495	1519 (v)
156.	BD	(	1)	C	62	-	H	87	1.98463	-0.42022	1502 (v)
157.	BD	(	1)	C	62	-	H	88	1.98761	-0.42450	1513 (v)
158.	BD	(	1)	C	62	-	H	89	1.98595	-0.41384	1511 (v)
159.	CR	(	1)	C	1				1.99867	-9.74357	1485 (v), 1456 (g), 1453 (g)
160.	CR	(	1)	O	2				1.99981	-18.41443	226 (v), 1456 (v), 1455 (v)
161.	CR	(	1)	C	3				1.99898	-9.73478	325 (v), 270 (v), 1461 (v)
162.	CR	(	1)	C	4				1.99875	-9.77349	1472 (v), 282 (v), 1465 (v)
										254 (v), 1460 (v), 1474 (v)	
										1463 (g), 255 (v), 1457 (g)	

163. CR (1) C 5	1.99898	1461 (g) , 1464 (v) -9.73872 297 (v) , 270 (v) , 1463 (v) 1457 (v) , 926 (v) , 1466 (v)
164. CR (1) C 6	1.99910	-9.72728 311 (v) , 283 (v) , 284 (v) , 1465 (v) 1461 (v) , 1469 (v) , 1169 (v)
165. CR (1) C 7	1.99920	-9.73058 297 (v) , 325 (v) , 1458 (v) 1464 (v)
166. CR (1) C 8	1.99910	-9.72423 255 (v) , 311 (v) , 1460 (v) 1466 (v) , 1457 (v)
167. CR (1) N 9	1.99944	-13.85327 396 (v) , 268 (v) , 1476 (v)
168. CR (1) C 10	1.99868	-9.79369 1484 (v) , 1476 (g) , 1478 (v) 1463 (v) , 408 (v) , 411 (v) 1474 (v) , 1477 (v)
169. CR (1) N 11	1.99943	-13.85487 354 (v) , 382 (v) , 786 (v) , 1476 (v)
170. CR (1) C 12	1.99903	-9.77424 1480 (g) , 1478 (v) , 395 (v) 1483 (v) , 396 (v) , 368 (v) 1475 (v) , 1133 (v)
171. CR (1) C 13	1.99902	-9.77405 1463 (v) , 1480 (g) , 382 (v) 1482 (v) , 381 (v) , 340 (v) 1472 (v) , 1138 (v)
172. CR (1) B 14	1.99760	-6.32246 1485 (v) , 1453 (v) , 1475 (v) 1456 (v) , 1472 (v) , 422 (v) 1484 (g) , 1455 (g) , 352 (v)
173. CR (1) B 15	1.99700	-6.31239 1453 (v) , 1476 (v) , 1488 (v) 408 (v) , 1455 (v) , 1484 (g) 1486 (v) , 226 (v) , 436 (v) 1456 (g)
174. CR (1) C 16	1.99876	-9.80772 1485 (g) , 1484 (v) , 1496 (v) 1490 (v) , 423 (v) , 1489 (v) 1494 (v) , 452 (v)
175. CR (1) N 17	1.99942	-13.87266 439 (v) , 466 (v) , 506 (v) , 1485 (v)
176. CR (1) C 18	1.99904	-9.79290 1490 (v) , 479 (v) , 1491 (g) 1495 (v) , 480 (v) , 452 (v) 1486 (v) , 1093 (v)
177. CR (1) C 19	1.99904	-9.79352 1496 (v) , 465 (v) , 1491 (g) 1493 (v) , 466 (v) , 494 (v) 1488 (v) , 1098 (v)
178. CR (1) N 20	1.99942	-13.87399 480 (v) , 646 (v) , 1485 (v)
179. CR (1) C 21	1.99873	-9.77824 1486 (v) , 576 (v) , 1510 (v) 520 (v) , 1490 (g) , 1502 (v) 1489 (v) , 1498 (g) , 1497 (g) 522 (v)
180. CR (1) C 22	1.99897	-9.73731 508 (v) , 1490 (v) , 1498 (v) 535 (v) , 536 (v) , 1503 (v) , 592 (v)
181. CR (1) C 23	1.99910	-9.72359 522 (v) , 549 (v) , 1502 (v) 1497 (v) , 1505 (v) , 1114 (v)
182. CR (1) C 24	1.99920	-9.72917 563 (v) , 535 (v) , 1500 (v) 1508 (v)
183. CR (1) C 25	1.99909	-9.72703 549 (v) , 578 (v) , 1510 (v) 1498 (v) , 1503 (v)
184. CR (1) C 26	1.99898	-9.74018 563 (v) , 508 (v) , 1497 (v) 1490 (v) , 619 (v) , 1505 (v)
185. CR (1) C 27	1.99936	-9.74236 520 (v) , 1081 (v) , 606 (v) 1497 (v) , 1500 (v)
186. CR (1) C 28	1.99941	-9.72939 591 (v) , 594 (v)
187. CR (1) C 29	1.99937	-9.75218 576 (v) , 634 (v) , 1498 (v) 1067 (v) , 1508 (v)
188. CR (1) C 30	1.99942	-9.73519 1244 (v) , 620 (v)
189. CR (1) C 31	1.99874	-9.78552 1488 (v) , 716 (v) , 660 (v) 1528 (v) , 1536 (v) , 1496 (g) 1494 (v) , 1524 (g) , 1523 (g)
190. CR (1) C 32	1.99898	-9.74836 648 (v) , 675 (v) , 1524 (v) 1496 (v) , 731 (v) , 1529 (v)
191. CR (1) C 33	1.99910	-9.73618 689 (v) , 661 (v) , 662 (v) , 1528 (v) 1531 (v) , 1523 (v) , 1129 (v)
192. CR (1) C 34	1.99920	-9.73970 703 (v) , 675 (v) , 1534 (v) 1526 (v)
193. CR (1) C 35	1.99910	-9.73523 717 (v) , 689 (v) , 1536 (v) 1529 (v) , 1524 (v)
194. CR (1) C 36	1.99898	-9.74625 703 (v) , 648 (v) , 1523 (v) 1496 (v) , 759 (v) , 1531 (v)

195. CR (1) C 37	1.99937	-9.75585 660 (v) , 746 (v) , 983 (v) , 1523 (v) 1526 (v)
196. CR (1) C 38	1.99942	-9.73816 1304 (v)
197. CR (1) C 39	1.99936	-9.75047 716 (v) , 774 (v) , 997 (v) , 1524 (v) 1534 (v)
198. CR (1) C 40	1.99942	-9.73498 1274 (v) , 1284 (v)
199. CR (1) C 41	1.99874	-9.77495 1475 (v) , 855 (v) , 1562 (v) 1554 (v) , 800 (v) , 799 (v) 1478 (g) , 1477 (v) , 856 (v) 1560 (v)
200. CR (1) C 42	1.99899	-9.73569 1479 (v) , 788 (v) , 1478 (v) 815 (v) , 870 (v) , 1555 (v) , 814 (v)
201. CR (1) C 43	1.99911	-9.72450 800 (v) , 828 (v) , 1554 (v) 1557 (v) , 1154 (v)
202. CR (1) C 44	1.99920	-9.73076 842 (v) , 815 (v) , 1552 (v) 1560 (v)
203. CR (1) C 45	1.99909	-9.72741 856 (v) , 828 (v) , 1562 (v) 1555 (v)
204. CR (1) C 46	1.99898	-9.73887 1479 (v) , 842 (v) , 788 (v) 1478 (v) , 898 (v) , 1557 (v)
205. CR (1) C 47	1.99935	-9.73187 799 (v) , 1011 (v) , 885 (v) 1552 (v) , 1549 (v)
206. CR (1) C 48	1.99941	-9.72099 871 (v)
207. CR (1) C 49	1.99936	-9.74888 855 (v) , 1025 (v) , 913 (v) 1550 (v) , 1560 (v)
208. CR (1) C 50	1.99942	-9.73323 1424 (v)
209. CR (1) C 51	1.99937	-9.74930 282 (v) , 941 (v) , 1461 (v) 1039 (v) , 1464 (v)
210. CR (1) C 52	1.99942	-9.73320 927 (v) , 1349 (v)
211. CR (1) C 53	1.99935	-9.73246 254 (v) , 1053 (v) , 969 (v) 1457 (v) , 1458 (v)
212. CR (1) C 54	1.99941	-9.72175 955 (v)
213. CR (1) C 55	1.99941	-9.72849 732 (v)
214. CR (1) C 56	1.99942	-9.72098 760 (v)
215. CR (1) C 57	1.99943	-9.71204 870 (v)
216. CR (1) C 58	1.99942	-9.72714 899 (v) , 1444 (v)
217. CR (1) C 59	1.99941	-9.72782 1335 (v) , 927 (v)
218. CR (1) C 60	1.99943	-9.70843 954 (v) , 1384 (v)
219. CR (1) C 61	1.99942	-9.72630 620 (v) , 1264 (v)
220. CR (1) C 62	1.99942	-9.71137
221. LP (1) O 2	1.96474	-0.57212 226 (v) , 1456 (v) , 1455 (v) 232 (v)
222. LP (2) O 2	1.74913	-0.15921 1455 (v) , 1456 (v) , 228 (v) 230 (v) , 1565 (r)
223. LP* (1) B 14	0.58308	0.02866 224 (v) , 1454 (v) , 1551 (r) 1472 (v) , 1475 (v) , 1462 (r) 410 (g) , 1484 (g) , 1487 (r) 417 (g) , 1455 (g)
224. LP (1) B 15	0.74839	0.02727 223 (v) , 1454 (v) , 1487 (v) 1488 (v) , 424 (g) , 1486 (v) 227 (v) , 1551 (r)
225. LP (1) N 20	1.53944	-0.24744 1487 (v) , 1492 (v) , 1523 (v) 1524 (v) , 478 (v) , 648 (v) , 441 (v)
226. RY* (1) C 1	0.01705	1.01327
227. RY* (2) C 1	0.00521	2.06636
228. RY* (3) C 1	0.00290	2.24678
229. RY* (4) C 1	0.00155	1.76412
230. RY* (5) C 1	0.00086	0.89622
231. RY* (6) C 1	0.00055	0.58366
232. RY* (7) C 1	0.00041	2.40922
233. RY* (8) C 1	0.00029	1.94890
234. RY* (9) C 1	0.00015	1.75990
235. RY* (10) C 1	0.00010	2.24307
236. RY* (11) C 1	0.00008	1.69330
237. RY* (12) C 1	0.00002	2.46793
238. RY* (13) C 1	0.00002	2.63134
239. RY* (14) C 1	0.00000	20.01219
240. RY* (1) O 2	0.00533	0.85683
241. RY* (2) O 2	0.00361	0.78659
242. RY* (3) O 2	0.00179	1.25683
243. RY* (4) O 2	0.00041	0.71755

244.	RY*	(5)	O	2	0.00004	4.31106
245.	RY*	(6)	O	2	0.00001	2.95893
246.	RY*	(7)	O	2	0.00001	3.38809
247.	RY*	(8)	O	2	0.00001	2.98594
248.	RY*	(9)	O	2	0.00001	4.12688
249.	RY*	(10)	O	2	0.00001	2.69385
250.	RY*	(11)	O	2	0.00001	2.93138
251.	RY*	(12)	O	2	0.00001	3.19118
252.	RY*	(13)	O	2	0.00001	2.73098
253.	RY*	(14)	O	2	0.00000	41.02280
254.	RY*	(1)	C	3	0.00513	1.36040
255.	RY*	(2)	C	3	0.00305	1.08649
256.	RY*	(3)	C	3	0.00254	0.79294
257.	RY*	(4)	C	3	0.00148	1.03935
258.	RY*	(5)	C	3	0.00077	1.74847
259.	RY*	(6)	C	3	0.00043	1.60159
260.	RY*	(7)	C	3	0.00040	1.93876
261.	RY*	(8)	C	3	0.00036	2.01019
262.	RY*	(9)	C	3	0.00024	1.93989
263.	RY*	(10)	C	3	0.00014	2.33322
264.	RY*	(11)	C	3	0.00012	2.35496
265.	RY*	(12)	C	3	0.00008	1.52046
266.	RY*	(13)	C	3	0.00004	2.39600
267.	RY*	(14)	C	3	0.00000	21.26725
268.	RY*	(1)	C	4	0.00649	1.35795
269.	RY*	(2)	C	4	0.00335	0.75199
270.	RY*	(3)	C	4	0.00249	1.13961
271.	RY*	(4)	C	4	0.00113	1.45530
272.	RY*	(5)	C	4	0.00080	1.91383
273.	RY*	(6)	C	4	0.00069	2.00971
274.	RY*	(7)	C	4	0.00058	1.92933
275.	RY*	(8)	C	4	0.00041	1.71307
276.	RY*	(9)	C	4	0.00038	1.69483
277.	RY*	(10)	C	4	0.00033	1.82971
278.	RY*	(11)	C	4	0.00012	2.47991
279.	RY*	(12)	C	4	0.00010	2.01067
280.	RY*	(13)	C	4	0.00005	2.38717
281.	RY*	(14)	C	4	0.00000	21.50815
282.	RY*	(1)	C	5	0.00510	1.40435
283.	RY*	(2)	C	5	0.00298	0.96586
284.	RY*	(3)	C	5	0.00284	0.89740
285.	RY*	(4)	C	5	0.00148	1.02311
286.	RY*	(5)	C	5	0.00067	1.89250
287.	RY*	(6)	C	5	0.00049	1.78158
288.	RY*	(7)	C	5	0.00041	1.74489
289.	RY*	(8)	C	5	0.00028	1.87015
290.	RY*	(9)	C	5	0.00021	1.88335
291.	RY*	(10)	C	5	0.00013	2.42101
292.	RY*	(11)	C	5	0.00011	2.17567
293.	RY*	(12)	C	5	0.00007	1.57664
294.	RY*	(13)	C	5	0.00004	2.42354
295.	RY*	(14)	C	5	0.00000	21.08030
296.	RY*	(1)	C	6	0.00409	1.42571
297.	RY*	(2)	C	6	0.00143	1.10791
298.	RY*	(3)	C	6	0.00131	0.54220
299.	RY*	(4)	C	6	0.00060	1.32875
300.	RY*	(5)	C	6	0.00048	1.87643
301.	RY*	(6)	C	6	0.00015	2.46131
302.	RY*	(7)	C	6	0.00009	1.75899
303.	RY*	(8)	C	6	0.00005	2.02057
304.	RY*	(9)	C	6	0.00006	1.64486
305.	RY*	(10)	C	6	0.00006	1.17888
306.	RY*	(11)	C	6	0.00002	1.82149
307.	RY*	(12)	C	6	0.00001	1.83985
308.	RY*	(13)	C	6	0.00002	2.28675
309.	RY*	(14)	C	6	0.00000	20.82809
310.	RY*	(1)	C	7	0.00412	1.20618
311.	RY*	(2)	C	7	0.00185	1.20728
312.	RY*	(3)	C	7	0.00091	0.54798
313.	RY*	(4)	C	7	0.00054	1.64307
314.	RY*	(5)	C	7	0.00051	1.44725

315.	RY*	(6)	C	7	0.00020	2.41899
316.	RY*	(7)	C	7	0.00007	1.81944
317.	RY*	(8)	C	7	0.00004	2.08090
318.	RY*	(9)	C	7	0.00005	1.47214
319.	RY*	(10)	C	7	0.00004	1.49263
320.	RY*	(11)	C	7	0.00001	1.38395
321.	RY*	(12)	C	7	0.00000	2.13415
322.	RY*	(13)	C	7	0.00000	1.81797
323.	RY*	(14)	C	7	0.00000	21.13564
324.	RY*	(1)	C	8	0.00422	1.41034
325.	RY*	(2)	C	8	0.00147	0.98907
326.	RY*	(3)	C	8	0.00131	0.72525
327.	RY*	(4)	C	8	0.00060	1.31926
328.	RY*	(5)	C	8	0.00046	1.88926
329.	RY*	(6)	C	8	0.00016	2.15460
330.	RY*	(7)	C	8	0.00012	1.77243
331.	RY*	(8)	C	8	0.00008	1.73219
332.	RY*	(9)	C	8	0.00005	2.14760
333.	RY*	(10)	C	8	0.00004	1.49875
334.	RY*	(11)	C	8	0.00002	2.34700
335.	RY*	(12)	C	8	0.00002	1.83220
336.	RY*	(13)	C	8	0.00002	1.70876
337.	RY*	(14)	C	8	0.00000	20.85969
338.	RY*	(1)	N	9	0.00631	0.86041
339.	RY*	(2)	N	9	0.00502	1.39271
340.	RY*	(3)	N	9	0.00155	1.06823
341.	RY*	(4)	N	9	0.00096	1.37893
342.	RY*	(5)	N	9	0.00073	2.23895
343.	RY*	(6)	N	9	0.00052	2.46144
344.	RY*	(7)	N	9	0.00038	2.39264
345.	RY*	(8)	N	9	0.00016	2.51538
346.	RY*	(9)	N	9	0.00013	2.96253
347.	RY*	(10)	N	9	0.00008	3.06821
348.	RY*	(11)	N	9	0.00006	2.84377
349.	RY*	(12)	N	9	0.00004	2.77372
350.	RY*	(13)	N	9	0.00004	2.67353
351.	RY*	(14)	N	9	0.00000	30.12368
352.	RY*	(1)	C	10	0.00546	1.64437
353.	RY*	(2)	C	10	0.00341	1.46986
354.	RY*	(3)	C	10	0.00210	1.67650
355.	RY*	(4)	C	10	0.00162	1.58877
356.	RY*	(5)	C	10	0.00138	1.07496
357.	RY*	(6)	C	10	0.00126	1.41495
358.	RY*	(7)	C	10	0.00112	1.91258
359.	RY*	(8)	C	10	0.00064	1.57027
360.	RY*	(9)	C	10	0.00036	2.96382
361.	RY*	(10)	C	10	0.00014	2.25814
362.	RY*	(11)	C	10	0.00014	2.43904
363.	RY*	(12)	C	10	0.00008	1.90022
364.	RY*	(13)	C	10	0.00004	2.54912
365.	RY*	(14)	C	10	0.00001	20.14700
366.	RY*	(1)	N	11	0.00639	0.80441
367.	RY*	(2)	N	11	0.00514	1.44081
368.	RY*	(3)	N	11	0.00167	1.08092
369.	RY*	(4)	N	11	0.00107	1.09744
370.	RY*	(5)	N	11	0.00067	2.28666
371.	RY*	(6)	N	11	0.00051	2.42712
372.	RY*	(7)	N	11	0.00037	2.41100
373.	RY*	(8)	N	11	0.00015	3.36672
374.	RY*	(9)	N	11	0.00014	2.54294
375.	RY*	(10)	N	11	0.00010	2.71865
376.	RY*	(11)	N	11	0.00006	2.79803
377.	RY*	(12)	N	11	0.00004	2.59223
378.	RY*	(13)	N	11	0.00005	2.76682
379.	RY*	(14)	N	11	0.00000	30.34989
380.	RY*	(1)	C	12	0.00425	0.66917
381.	RY*	(2)	C	12	0.00301	1.33649
382.	RY*	(3)	C	12	0.00144	1.07033
383.	RY*	(4)	C	12	0.00111	1.20621
384.	RY*	(5)	C	12	0.00070	1.76804
385.	RY*	(6)	C	12	0.00041	1.51222

386.	RY*	(7)	C	12	0.00027	1.51459
387.	RY*	(8)	C	12	0.00016	1.58051
388.	RY*	(9)	C	12	0.00011	2.77443
389.	RY*	(10)	C	12	0.00012	1.87647
390.	RY*	(11)	C	12	0.00004	1.94999
391.	RY*	(12)	C	12	0.00002	2.15396
392.	RY*	(13)	C	12	0.00002	2.22549
393.	RY*	(14)	C	12	0.00000	21.15827
394.	RY*	(1)	C	13	0.00426	0.66640
395.	RY*	(2)	C	13	0.00304	1.32755
396.	RY*	(3)	C	13	0.00151	1.06108
397.	RY*	(4)	C	13	0.00109	1.13615
398.	RY*	(5)	C	13	0.00069	1.77057
399.	RY*	(6)	C	13	0.00044	1.52489
400.	RY*	(7)	C	13	0.00024	1.59842
401.	RY*	(8)	C	13	0.00015	1.54848
402.	RY*	(9)	C	13	0.00012	1.83921
403.	RY*	(10)	C	13	0.00009	2.68318
404.	RY*	(11)	C	13	0.00005	1.96632
405.	RY*	(12)	C	13	0.00002	2.36807
406.	RY*	(13)	C	13	0.00002	1.96302
407.	RY*	(14)	C	13	0.00000	21.20581
408.	RY*	(1)	B	14	0.00292	1.51642
409.	RY*	(2)	B	14	0.00140	1.12391
410.	RY*	(3)	B	14	0.00130	0.68131
411.	RY*	(4)	B	14	0.00095	1.21312
412.	RY*	(5)	B	14	0.00063	1.82633
413.	RY*	(6)	B	14	0.00045	3.45858
414.	RY*	(7)	B	14	0.00038	2.53228
415.	RY*	(8)	B	14	0.00037	1.32806
416.	RY*	(9)	B	14	0.00019	4.46769
417.	RY*	(10)	B	14	0.00013	1.73210
418.	RY*	(11)	B	14	0.00009	2.40818
419.	RY*	(12)	B	14	0.00007	4.17733
420.	RY*	(13)	B	14	0.00004	2.80608
421.	RY*	(14)	B	14	0.00004	1.46847
422.	RY*	(1)	B	15	0.00328	1.63071
423.	RY*	(2)	B	15	0.00182	1.36655
424.	RY*	(3)	B	15	0.00127	0.81808
425.	RY*	(4)	B	15	0.00122	0.88663
426.	RY*	(5)	B	15	0.00116	1.23454
427.	RY*	(6)	B	15	0.00070	1.60540
428.	RY*	(7)	B	15	0.00037	1.85419
429.	RY*	(8)	B	15	0.00028	1.91498
430.	RY*	(9)	B	15	0.00024	6.45575
431.	RY*	(10)	B	15	0.00017	1.37163
432.	RY*	(11)	B	15	0.00009	3.05138
433.	RY*	(12)	B	15	0.00006	3.97689
434.	RY*	(13)	B	15	0.00005	2.21913
435.	RY*	(14)	B	15	0.00003	1.54081
436.	RY*	(1)	C	16	0.00549	1.82074
437.	RY*	(2)	C	16	0.00277	1.24577
438.	RY*	(3)	C	16	0.00260	1.44969
439.	RY*	(4)	C	16	0.00186	1.51680
440.	RY*	(5)	C	16	0.00133	1.53010
441.	RY*	(6)	C	16	0.00128	1.64433
442.	RY*	(7)	C	16	0.00081	1.54722
443.	RY*	(8)	C	16	0.00077	1.62727
444.	RY*	(9)	C	16	0.00044	2.66454
445.	RY*	(10)	C	16	0.00019	2.28912
446.	RY*	(11)	C	16	0.00013	2.38826
447.	RY*	(12)	C	16	0.00008	1.77313
448.	RY*	(13)	C	16	0.00004	2.49186
449.	RY*	(14)	C	16	0.00001	20.13101
450.	RY*	(1)	N	17	0.00554	1.47691
451.	RY*	(2)	N	17	0.00483	0.74416
452.	RY*	(3)	N	17	0.00166	0.95593
453.	RY*	(4)	N	17	0.00121	1.05250
454.	RY*	(5)	N	17	0.00075	2.26074
455.	RY*	(6)	N	17	0.00065	2.54354
456.	RY*	(7)	N	17	0.00032	2.42112

457.	RY*	(8)	N	17	0.00014	2.57254
458.	RY*	(9)	N	17	0.00014	3.66045
459.	RY*	(10)	N	17	0.00010	2.39969
460.	RY*	(11)	N	17	0.00005	2.74666
461.	RY*	(12)	N	17	0.00005	2.77887
462.	RY*	(13)	N	17	0.00004	2.58033
463.	RY*	(14)	N	17	0.00000	30.33750
464.	RY*	(1)	C	18	0.00366	0.62106
465.	RY*	(2)	C	18	0.00314	1.33367
466.	RY*	(3)	C	18	0.00146	1.11204
467.	RY*	(4)	C	18	0.00107	1.16292
468.	RY*	(5)	C	18	0.00069	1.73324
469.	RY*	(6)	C	18	0.00044	1.51841
470.	RY*	(7)	C	18	0.00024	1.50709
471.	RY*	(8)	C	18	0.00016	1.55830
472.	RY*	(9)	C	18	0.00011	2.78261
473.	RY*	(10)	C	18	0.00009	1.93399
474.	RY*	(11)	C	18	0.00002	2.32009
475.	RY*	(12)	C	18	0.00003	1.96348
476.	RY*	(13)	C	18	0.00003	1.78847
477.	RY*	(14)	C	18	0.00000	21.19451
478.	RY*	(1)	C	19	0.00371	0.60162
479.	RY*	(2)	C	19	0.00308	1.28984
480.	RY*	(3)	C	19	0.00145	1.09088
481.	RY*	(4)	C	19	0.00096	1.13833
482.	RY*	(5)	C	19	0.00064	1.74045
483.	RY*	(6)	C	19	0.00048	1.49431
484.	RY*	(7)	C	19	0.00025	1.43770
485.	RY*	(8)	C	19	0.00014	1.44889
486.	RY*	(9)	C	19	0.00011	2.66697
487.	RY*	(10)	C	19	0.00010	1.96083
488.	RY*	(11)	C	19	0.00005	1.85238
489.	RY*	(12)	C	19	0.00002	2.31332
490.	RY*	(13)	C	19	0.00003	1.91607
491.	RY*	(14)	C	19	0.00000	21.26988
492.	RY*	(1)	N	20	0.00571	1.38800
493.	RY*	(2)	N	20	0.00498	0.83845
494.	RY*	(3)	N	20	0.00169	1.03314
495.	RY*	(4)	N	20	0.00108	1.07873
496.	RY*	(5)	N	20	0.00071	2.23723
497.	RY*	(6)	N	20	0.00059	2.46686
498.	RY*	(7)	N	20	0.00032	2.39518
499.	RY*	(8)	N	20	0.00014	3.73019
500.	RY*	(9)	N	20	0.00015	2.57253
501.	RY*	(10)	N	20	0.00009	2.39176
502.	RY*	(11)	N	20	0.00006	2.66734
503.	RY*	(12)	N	20	0.00004	2.55714
504.	RY*	(13)	N	20	0.00004	2.81008
505.	RY*	(14)	N	20	0.00000	30.32997
506.	RY*	(1)	C	21	0.00680	1.26166
507.	RY*	(2)	C	21	0.00357	0.75510
508.	RY*	(3)	C	21	0.00291	0.98383
509.	RY*	(4)	C	21	0.00116	1.65958
510.	RY*	(5)	C	21	0.00089	1.97133
511.	RY*	(6)	C	21	0.00078	2.03284
512.	RY*	(7)	C	21	0.00068	1.79172
513.	RY*	(8)	C	21	0.00043	1.67201
514.	RY*	(9)	C	21	0.00039	1.91834
515.	RY*	(10)	C	21	0.00036	1.73677
516.	RY*	(11)	C	21	0.00014	2.47545
517.	RY*	(12)	C	21	0.00010	2.03250
518.	RY*	(13)	C	21	0.00005	2.39117
519.	RY*	(14)	C	21	0.00000	21.08259
520.	RY*	(1)	C	22	0.00535	1.29617
521.	RY*	(2)	C	22	0.00398	0.68533
522.	RY*	(3)	C	22	0.00332	0.96731
523.	RY*	(4)	C	22	0.00190	1.05795
524.	RY*	(5)	C	22	0.00075	1.77380
525.	RY*	(6)	C	22	0.00047	1.69043
526.	RY*	(7)	C	22	0.00045	1.93423
527.	RY*	(8)	C	22	0.00033	1.89721

528.	RY*	(9)	C	22	0.00028	1.93297
529.	RY*	(10)	C	22	0.00014	2.35530
530.	RY*	(11)	C	22	0.00013	2.44804
531.	RY*	(12)	C	22	0.00008	1.64291
532.	RY*	(13)	C	22	0.00004	2.37242
533.	RY*	(14)	C	22	0.00000	21.05229
534.	RY*	(1)	C	23	0.00409	1.43011
535.	RY*	(2)	C	23	0.00148	0.85360
536.	RY*	(3)	C	23	0.00141	0.84501
537.	RY*	(4)	C	23	0.00067	1.33279
538.	RY*	(5)	C	23	0.00046	1.86317
539.	RY*	(6)	C	23	0.00015	2.09906
540.	RY*	(7)	C	23	0.00011	1.89271
541.	RY*	(8)	C	23	0.00009	1.63100
542.	RY*	(9)	C	23	0.00005	2.09029
543.	RY*	(10)	C	23	0.00003	1.47780
544.	RY*	(11)	C	23	0.00003	1.64945
545.	RY*	(12)	C	23	0.00002	1.89749
546.	RY*	(13)	C	23	0.00002	2.36283
547.	RY*	(14)	C	23	0.00000	20.72293
548.	RY*	(1)	C	24	0.00400	1.21961
549.	RY*	(2)	C	24	0.00185	1.20740
550.	RY*	(3)	C	24	0.00092	0.57985
551.	RY*	(4)	C	24	0.00055	1.28574
552.	RY*	(5)	C	24	0.00048	1.75343
553.	RY*	(6)	C	24	0.00020	2.39821
554.	RY*	(7)	C	24	0.00007	1.72726
555.	RY*	(8)	C	24	0.00005	1.56898
556.	RY*	(9)	C	24	0.00004	2.45717
557.	RY*	(10)	C	24	0.00004	1.05800
558.	RY*	(11)	C	24	0.00001	1.63880
559.	RY*	(12)	C	24	0.00000	20.98464
560.	RY*	(13)	C	24	0.00001	1.82882
561.	RY*	(14)	C	24	0.00000	2.06682
562.	RY*	(1)	C	25	0.00401	1.42687
563.	RY*	(2)	C	25	0.00145	1.09920
564.	RY*	(3)	C	25	0.00127	0.57105
565.	RY*	(4)	C	25	0.00061	1.37236
566.	RY*	(5)	C	25	0.00048	1.86278
567.	RY*	(6)	C	25	0.00015	2.45316
568.	RY*	(7)	C	25	0.00008	1.84181
569.	RY*	(8)	C	25	0.00006	1.33264
570.	RY*	(9)	C	25	0.00005	1.60813
571.	RY*	(10)	C	25	0.00005	2.02944
572.	RY*	(11)	C	25	0.00002	2.07874
573.	RY*	(12)	C	25	0.00001	1.95048
574.	RY*	(13)	C	25	0.00002	1.68958
575.	RY*	(14)	C	25	0.00000	20.89797
576.	RY*	(1)	C	26	0.00511	1.40275
577.	RY*	(2)	C	26	0.00300	0.79518
578.	RY*	(3)	C	26	0.00288	1.06032
579.	RY*	(4)	C	26	0.00144	1.09941
580.	RY*	(5)	C	26	0.00075	1.82876
581.	RY*	(6)	C	26	0.00052	1.82635
582.	RY*	(7)	C	26	0.00044	1.72988
583.	RY*	(8)	C	26	0.00028	1.88543
584.	RY*	(9)	C	26	0.00020	1.96859
585.	RY*	(10)	C	26	0.00013	2.37367
586.	RY*	(11)	C	26	0.00011	2.03416
587.	RY*	(12)	C	26	0.00009	1.71604
588.	RY*	(13)	C	26	0.00004	2.40133
589.	RY*	(14)	C	26	0.00000	21.21474
590.	RY*	(1)	C	27	0.00369	1.07451
591.	RY*	(2)	C	27	0.00170	1.01853
592.	RY*	(3)	C	27	0.00140	1.50695
593.	RY*	(4)	C	27	0.00074	1.45826
594.	RY*	(5)	C	27	0.00059	1.45970
595.	RY*	(6)	C	27	0.00037	1.62695
596.	RY*	(7)	C	27	0.00029	1.94461
597.	RY*	(8)	C	27	0.00025	1.97490
598.	RY*	(9)	C	27	0.00019	1.84562

599.	RY*	(10)	C	27	0.00016	2.20042
600.	RY*	(11)	C	27	0.00011	1.99794
601.	RY*	(12)	C	27	0.00008	1.83850
602.	RY*	(13)	C	27	0.00003	2.35516
603.	RY*	(14)	C	27	0.00000	20.73567
604.	RY*	(1)	C	28	0.00154	0.87861
605.	RY*	(2)	C	28	0.00098	0.88762
606.	RY*	(3)	C	28	0.00025	1.13357
607.	RY*	(4)	C	28	0.00014	1.47420
608.	RY*	(5)	C	28	0.00011	1.99043
609.	RY*	(6)	C	28	0.00008	1.42522
610.	RY*	(7)	C	28	0.00004	1.95821
611.	RY*	(8)	C	28	0.00003	1.48670
612.	RY*	(9)	C	28	0.00001	2.20505
613.	RY*	(10)	C	28	0.00001	2.27083
614.	RY*	(11)	C	28	0.00001	1.93263
615.	RY*	(12)	C	28	0.00001	1.99471
616.	RY*	(13)	C	28	0.00000	20.19853
617.	RY*	(14)	C	28	0.00001	2.23411
618.	RY*	(1)	C	29	0.00356	1.11446
619.	RY*	(2)	C	29	0.00128	1.56719
620.	RY*	(3)	C	29	0.00112	1.03211
621.	RY*	(4)	C	29	0.00066	1.85552
622.	RY*	(5)	C	29	0.00050	1.68925
623.	RY*	(6)	C	29	0.00032	1.19988
624.	RY*	(7)	C	29	0.00025	1.74781
625.	RY*	(8)	C	29	0.00026	1.99054
626.	RY*	(9)	C	29	0.00017	2.04295
627.	RY*	(10)	C	29	0.00014	1.85387
628.	RY*	(11)	C	29	0.00010	2.01242
629.	RY*	(12)	C	29	0.00002	1.69866
630.	RY*	(13)	C	29	0.00002	2.37057
631.	RY*	(14)	C	29	0.00000	21.06842
632.	RY*	(1)	C	30	0.00169	0.78371
633.	RY*	(2)	C	30	0.00101	0.81884
634.	RY*	(3)	C	30	0.00032	1.02937
635.	RY*	(4)	C	30	0.00017	1.65150
636.	RY*	(5)	C	30	0.00010	1.82214
637.	RY*	(6)	C	30	0.00007	1.12063
638.	RY*	(7)	C	30	0.00003	2.19296
639.	RY*	(8)	C	30	0.00003	2.18010
640.	RY*	(9)	C	30	0.00001	2.13537
641.	RY*	(10)	C	30	0.00001	1.58624
642.	RY*	(11)	C	30	0.00001	2.25757
643.	RY*	(12)	C	30	0.00001	2.06048
644.	RY*	(13)	C	30	0.00001	2.26927
645.	RY*	(14)	C	30	0.00000	19.89249
646.	RY*	(1)	C	31	0.00656	1.31066
647.	RY*	(2)	C	31	0.00339	0.74244
648.	RY*	(3)	C	31	0.00263	1.09453
649.	RY*	(4)	C	31	0.00107	1.60023
650.	RY*	(5)	C	31	0.00083	1.88736
651.	RY*	(6)	C	31	0.00075	1.82147
652.	RY*	(7)	C	31	0.00059	1.90762
653.	RY*	(8)	C	31	0.00044	1.64648
654.	RY*	(9)	C	31	0.00035	1.95656
655.	RY*	(10)	C	31	0.00029	1.50728
656.	RY*	(11)	C	31	0.00012	2.10127
657.	RY*	(12)	C	31	0.00013	2.42316
658.	RY*	(13)	C	31	0.00005	2.37701
659.	RY*	(14)	C	31	0.00000	21.52271
660.	RY*	(1)	C	32	0.00502	1.40023
661.	RY*	(2)	C	32	0.00294	0.92683
662.	RY*	(3)	C	32	0.00278	0.87766
663.	RY*	(4)	C	32	0.00147	1.00288
664.	RY*	(5)	C	32	0.00065	1.85859
665.	RY*	(6)	C	32	0.00051	1.58302
666.	RY*	(7)	C	32	0.00049	1.83714
667.	RY*	(8)	C	32	0.00028	1.84133
668.	RY*	(9)	C	32	0.00021	1.90270
669.	RY*	(10)	C	32	0.00015	2.23087

670.	RY*	(11)	C	32	0.00012	2.32600
671.	RY*	(12)	C	32	0.00007	1.62840
672.	RY*	(13)	C	32	0.00004	2.43843
673.	RY*	(14)	C	32	0.00000	21.02273
674.	RY*	(1)	C	33	0.00405	1.42094
675.	RY*	(2)	C	33	0.00148	0.92574
676.	RY*	(3)	C	33	0.00134	0.73533
677.	RY*	(4)	C	33	0.00059	1.30583
678.	RY*	(5)	C	33	0.00046	1.84583
679.	RY*	(6)	C	33	0.00015	2.35714
680.	RY*	(7)	C	33	0.00009	1.60427
681.	RY*	(8)	C	33	0.00008	1.76578
682.	RY*	(9)	C	33	0.00005	2.02875
683.	RY*	(10)	C	33	0.00004	1.29388
684.	RY*	(11)	C	33	0.00003	2.02721
685.	RY*	(12)	C	33	0.00002	1.77069
686.	RY*	(13)	C	33	0.00001	2.25693
687.	RY*	(14)	C	33	0.00000	20.72953
688.	RY*	(1)	C	34	0.00413	1.20527
689.	RY*	(2)	C	34	0.00186	1.19862
690.	RY*	(3)	C	34	0.00087	0.60028
691.	RY*	(4)	C	34	0.00054	1.21976
692.	RY*	(5)	C	34	0.00052	1.81578
693.	RY*	(6)	C	34	0.00019	2.48350
694.	RY*	(7)	C	34	0.00007	1.75117
695.	RY*	(8)	C	34	0.00005	1.56793
696.	RY*	(9)	C	34	0.00003	1.20830
697.	RY*	(10)	C	34	0.00003	2.32334
698.	RY*	(11)	C	34	0.00003	1.34390
699.	RY*	(12)	C	34	0.00000	21.19523
700.	RY*	(13)	C	34	0.00000	2.11279
701.	RY*	(14)	C	34	0.00001	1.84082
702.	RY*	(1)	C	35	0.00425	1.39464
703.	RY*	(2)	C	35	0.00143	1.08223
704.	RY*	(3)	C	35	0.00118	0.58165
705.	RY*	(4)	C	35	0.00061	1.33642
706.	RY*	(5)	C	35	0.00048	1.89269
707.	RY*	(6)	C	35	0.00015	2.36928
708.	RY*	(7)	C	35	0.00009	1.53356
709.	RY*	(8)	C	35	0.00009	1.81178
710.	RY*	(9)	C	35	0.00007	1.69662
711.	RY*	(10)	C	35	0.00004	1.81889
712.	RY*	(11)	C	35	0.00002	2.39680
713.	RY*	(12)	C	35	0.00002	1.71308
714.	RY*	(13)	C	35	0.00002	1.75749
715.	RY*	(14)	C	35	0.00000	20.97916
716.	RY*	(1)	C	36	0.00522	1.38785
717.	RY*	(2)	C	36	0.00289	1.11489
718.	RY*	(3)	C	36	0.00273	0.78591
719.	RY*	(4)	C	36	0.00147	1.00443
720.	RY*	(5)	C	36	0.00078	1.72002
721.	RY*	(6)	C	36	0.00050	1.86882
722.	RY*	(7)	C	36	0.00044	1.76751
723.	RY*	(8)	C	36	0.00027	1.83754
724.	RY*	(9)	C	36	0.00020	1.96710
725.	RY*	(10)	C	36	0.00011	2.23224
726.	RY*	(11)	C	36	0.00012	2.38816
727.	RY*	(12)	C	36	0.00007	1.50722
728.	RY*	(13)	C	36	0.00004	2.41555
729.	RY*	(14)	C	36	0.00000	21.10423
730.	RY*	(1)	C	37	0.00347	1.11172
731.	RY*	(2)	C	37	0.00128	1.55433
732.	RY*	(3)	C	37	0.00115	1.04105
733.	RY*	(4)	C	37	0.00063	1.85777
734.	RY*	(5)	C	37	0.00052	1.61670
735.	RY*	(6)	C	37	0.00034	1.34701
736.	RY*	(7)	C	37	0.00026	2.03953
737.	RY*	(8)	C	37	0.00024	1.69003
738.	RY*	(9)	C	37	0.00017	2.09726
739.	RY*	(10)	C	37	0.00014	1.54559
740.	RY*	(11)	C	37	0.00011	2.21133

741.	RY*	(12)	C	37	0.00002	2.34541
742.	RY*	(13)	C	37	0.00002	1.60226
743.	RY*	(14)	C	37	0.00000	21.05146
744.	RY*	(1)	C	38	0.00174	0.76422
745.	RY*	(2)	C	38	0.00102	0.79899
746.	RY*	(3)	C	38	0.00031	1.04405
747.	RY*	(4)	C	38	0.00018	1.63725
748.	RY*	(5)	C	38	0.00009	2.10488
749.	RY*	(6)	C	38	0.00007	1.07652
750.	RY*	(7)	C	38	0.00003	2.03099
751.	RY*	(8)	C	38	0.00003	2.21275
752.	RY*	(9)	C	38	0.00001	2.17802
753.	RY*	(10)	C	38	0.00000	2.14706
754.	RY*	(11)	C	38	0.00001	1.44735
755.	RY*	(12)	C	38	0.00000	20.03623
756.	RY*	(13)	C	38	0.00001	2.12395
757.	RY*	(14)	C	38	0.00001	2.17525
758.	RY*	(1)	C	39	0.00358	1.11088
759.	RY*	(2)	C	39	0.00126	1.56478
760.	RY*	(3)	C	39	0.00115	1.10332
761.	RY*	(4)	C	39	0.00064	1.82355
762.	RY*	(5)	C	39	0.00052	1.61346
763.	RY*	(6)	C	39	0.00031	1.38491
764.	RY*	(7)	C	39	0.00026	1.90043
765.	RY*	(8)	C	39	0.00021	1.75763
766.	RY*	(9)	C	39	0.00017	1.77728
767.	RY*	(10)	C	39	0.00014	1.94923
768.	RY*	(11)	C	39	0.00010	2.13538
769.	RY*	(12)	C	39	0.00002	2.36335
770.	RY*	(13)	C	39	0.00002	1.72160
771.	RY*	(14)	C	39	0.00000	21.10891
772.	RY*	(1)	C	40	0.00162	0.80115
773.	RY*	(2)	C	40	0.00097	0.86810
774.	RY*	(3)	C	40	0.00029	1.09501
775.	RY*	(4)	C	40	0.00015	1.57837
776.	RY*	(5)	C	40	0.00010	1.90747
777.	RY*	(6)	C	40	0.00007	1.07427
778.	RY*	(7)	C	40	0.00002	2.39826
779.	RY*	(8)	C	40	0.00002	2.16151
780.	RY*	(9)	C	40	0.00003	1.83712
781.	RY*	(10)	C	40	0.00001	1.91058
782.	RY*	(11)	C	40	0.00001	2.28483
783.	RY*	(12)	C	40	0.00000	19.75255
784.	RY*	(13)	C	40	0.00000	2.05289
785.	RY*	(14)	C	40	0.00000	2.07569
786.	RY*	(1)	C	41	0.00651	1.29334
787.	RY*	(2)	C	41	0.00320	0.78456
788.	RY*	(3)	C	41	0.00141	1.46775
789.	RY*	(4)	C	41	0.00100	1.60672
790.	RY*	(5)	C	41	0.00082	1.73202
791.	RY*	(6)	C	41	0.00072	1.85729
792.	RY*	(7)	C	41	0.00041	1.59003
793.	RY*	(8)	C	41	0.00039	1.60768
794.	RY*	(9)	C	41	0.00033	1.79911
795.	RY*	(10)	C	41	0.00014	2.52782
796.	RY*	(11)	C	41	0.00010	2.00438
797.	RY*	(12)	C	41	0.00005	2.42632
798.	RY*	(13)	C	41	0.00000	21.49869
799.	RY*	(1)	C	42	0.00502	1.37073
800.	RY*	(2)	C	42	0.00306	1.05399
801.	RY*	(3)	C	42	0.00236	0.83093
802.	RY*	(4)	C	42	0.00137	1.01323
803.	RY*	(5)	C	42	0.00065	1.79599
804.	RY*	(6)	C	42	0.00050	1.66194
805.	RY*	(7)	C	42	0.00042	1.84188
806.	RY*	(8)	C	42	0.00033	1.94340
807.	RY*	(9)	C	42	0.00024	1.86148
808.	RY*	(10)	C	42	0.00013	2.39967
809.	RY*	(11)	C	42	0.00012	2.32188
810.	RY*	(12)	C	42	0.00007	1.49644
811.	RY*	(13)	C	42	0.00004	2.40081

812.	RY*	(14)	C	42	0.00000	21.24455
813.	RY*	(1)	C	43	0.00409	1.42440
814.	RY*	(2)	C	43	0.00153	0.74522
815.	RY*	(3)	C	43	0.00136	0.89835
816.	RY*	(4)	C	43	0.00060	1.31234
817.	RY*	(5)	C	43	0.00047	1.89305
818.	RY*	(6)	C	43	0.00015	2.13339
819.	RY*	(7)	C	43	0.00012	1.76076
820.	RY*	(8)	C	43	0.00007	1.72613
821.	RY*	(9)	C	43	0.00006	1.54950
822.	RY*	(10)	C	43	0.00005	2.18092
823.	RY*	(11)	C	43	0.00002	1.60456
824.	RY*	(12)	C	43	0.00002	2.05788
825.	RY*	(13)	C	43	0.00002	2.17061
826.	RY*	(14)	C	43	0.00000	20.69190
827.	RY*	(1)	C	44	0.00417	1.19292
828.	RY*	(2)	C	44	0.00187	1.19094
829.	RY*	(3)	C	44	0.00089	0.57026
830.	RY*	(4)	C	44	0.00051	1.14427
831.	RY*	(5)	C	44	0.00051	1.89391
832.	RY*	(6)	C	44	0.00020	2.41379
833.	RY*	(7)	C	44	0.00008	1.44881
834.	RY*	(8)	C	44	0.00007	1.86756
835.	RY*	(9)	C	44	0.00004	1.10283
836.	RY*	(10)	C	44	0.00004	2.40962
837.	RY*	(11)	C	44	0.00001	1.48713
838.	RY*	(12)	C	44	0.00000	21.10410
839.	RY*	(13)	C	44	0.00000	1.95213
840.	RY*	(14)	C	44	0.00000	1.99776
841.	RY*	(1)	C	45	0.00417	1.41751
842.	RY*	(2)	C	45	0.00144	1.10804
843.	RY*	(3)	C	45	0.00134	0.52591
844.	RY*	(4)	C	45	0.00061	1.31931
845.	RY*	(5)	C	45	0.00049	1.88409
846.	RY*	(6)	C	45	0.00015	2.43395
847.	RY*	(7)	C	45	0.00010	1.72748
848.	RY*	(8)	C	45	0.00008	1.61927
849.	RY*	(9)	C	45	0.00005	1.83285
850.	RY*	(10)	C	45	0.00006	1.47902
851.	RY*	(11)	C	45	0.00002	1.73710
852.	RY*	(12)	C	45	0.00002	1.72581
853.	RY*	(13)	C	45	0.00001	2.52772
854.	RY*	(14)	C	45	0.00000	20.81206
855.	RY*	(1)	C	46	0.00513	1.39508
856.	RY*	(2)	C	46	0.00295	1.13359
857.	RY*	(3)	C	46	0.00289	0.73772
858.	RY*	(4)	C	46	0.00146	0.99230
859.	RY*	(5)	C	46	0.00067	1.84337
860.	RY*	(6)	C	46	0.00052	1.77018
861.	RY*	(7)	C	46	0.00049	1.77683
862.	RY*	(8)	C	46	0.00029	1.85810
863.	RY*	(9)	C	46	0.00020	1.85277
864.	RY*	(10)	C	46	0.00012	2.18111
865.	RY*	(11)	C	46	0.00013	2.45043
866.	RY*	(12)	C	46	0.00009	1.57850
867.	RY*	(13)	C	46	0.00004	2.44708
868.	RY*	(14)	C	46	0.00000	21.14819
869.	RY*	(1)	C	47	0.00368	1.05182
870.	RY*	(2)	C	47	0.00178	1.12326
871.	RY*	(3)	C	47	0.00140	1.07268
872.	RY*	(4)	C	47	0.00067	1.35637
873.	RY*	(5)	C	47	0.00059	1.81766
874.	RY*	(6)	C	47	0.00042	1.61515
875.	RY*	(7)	C	47	0.00029	2.12143
876.	RY*	(8)	C	47	0.00030	1.93697
877.	RY*	(9)	C	47	0.00023	2.00734
878.	RY*	(10)	C	47	0.00013	2.15006
879.	RY*	(11)	C	47	0.00011	1.91547
880.	RY*	(12)	C	47	0.00011	2.10256
881.	RY*	(13)	C	47	0.00003	2.40793
882.	RY*	(14)	C	47	0.00000	20.59374

883.	RY*(	1)	C	48	0.00153	0.89739
884.	RY*(	2)	C	48	0.00099	0.88917
885.	RY*(	3)	C	48	0.00029	1.10237
886.	RY*(	4)	C	48	0.00011	1.53479
887.	RY*(	5)	C	48	0.00012	1.92114
888.	RY*(	6)	C	48	0.00007	1.41484
889.	RY*(	7)	C	48	0.00004	1.82710
890.	RY*(	8)	C	48	0.00003	1.78266
891.	RY*(	9)	C	48	0.00002	2.15469
892.	RY*(	10)	C	48	0.00000	20.26540
893.	RY*(	11)	C	48	0.00001	2.18503
894.	RY*(	12)	C	48	0.00001	2.37077
895.	RY*(	13)	C	48	0.00001	1.87255
896.	RY*(	14)	C	48	0.00000	1.99554
897.	RY*(	1)	C	49	0.00367	1.11390
898.	RY*(	2)	C	49	0.00133	1.50354
899.	RY*(	3)	C	49	0.00128	0.97614
900.	RY*(	4)	C	49	0.00068	1.82033
901.	RY*(	5)	C	49	0.00050	1.71271
902.	RY*(	6)	C	49	0.00034	1.18764
903.	RY*(	7)	C	49	0.00026	2.01543
904.	RY*(	8)	C	49	0.00027	1.85296
905.	RY*(	9)	C	49	0.00018	2.07750
906.	RY*(	10)	C	49	0.00015	1.94249
907.	RY*(	11)	C	49	0.00009	1.93912
908.	RY*(	12)	C	49	0.00002	2.40316
909.	RY*(	13)	C	49	0.00003	1.73871
910.	RY*(	14)	C	49	0.00000	21.05163
911.	RY*(	1)	C	50	0.00165	0.78947
912.	RY*(	2)	C	50	0.00104	0.81353
913.	RY*(	3)	C	50	0.00038	1.03892
914.	RY*(	4)	C	50	0.00016	1.64499
915.	RY*(	5)	C	50	0.00011	1.59273
916.	RY*(	6)	C	50	0.00008	1.35592
917.	RY*(	7)	C	50	0.00002	2.58044
918.	RY*(	8)	C	50	0.00003	2.01151
919.	RY*(	9)	C	50	0.00002	2.21122
920.	RY*(	10)	C	50	0.00001	1.77478
921.	RY*(	11)	C	50	0.00000	19.86859
922.	RY*(	12)	C	50	0.00000	1.96082
923.	RY*(	13)	C	50	0.00001	2.05054
924.	RY*(	14)	C	50	0.00001	2.13968
925.	RY*(	1)	C	51	0.00364	1.11878
926.	RY*(	2)	C	51	0.00135	1.51456
927.	RY*(	3)	C	51	0.00123	0.97902
928.	RY*(	4)	C	51	0.00063	1.87977
929.	RY*(	5)	C	51	0.00048	1.75478
930.	RY*(	6)	C	51	0.00035	1.22905
931.	RY*(	7)	C	51	0.00026	2.02870
932.	RY*(	8)	C	51	0.00025	1.78002
933.	RY*(	9)	C	51	0.00018	2.13643
934.	RY*(	10)	C	51	0.00013	1.77343
935.	RY*(	11)	C	51	0.00010	2.00360
936.	RY*(	12)	C	51	0.00003	1.59978
937.	RY*(	13)	C	51	0.00002	2.40986
938.	RY*(	14)	C	51	0.00000	20.96727
939.	RY*(	1)	C	52	0.00168	0.78408
940.	RY*(	2)	C	52	0.00104	0.79820
941.	RY*(	3)	C	52	0.00037	1.03305
942.	RY*(	4)	C	52	0.00017	1.63770
943.	RY*(	5)	C	52	0.00011	1.76026
944.	RY*(	6)	C	52	0.00008	1.24998
945.	RY*(	7)	C	52	0.00002	2.01962
946.	RY*(	8)	C	52	0.00001	1.49881
947.	RY*(	9)	C	52	0.00001	2.92172
948.	RY*(	10)	C	52	0.00001	2.23886
949.	RY*(	11)	C	52	0.00002	2.28413
950.	RY*(	12)	C	52	0.00002	1.88797
951.	RY*(	13)	C	52	0.00000	19.55501
952.	RY*(	14)	C	52	0.00001	2.18088
953.	RY*(	1)	C	53	0.00371	1.04881

954.	RY*	(2)	C 53	0.00163	1.11006
955.	RY*	(3)	C 53	0.00137	1.18159
956.	RY*	(4)	C 53	0.00073	1.28911
957.	RY*	(5)	C 53	0.00061	1.82151
958.	RY*	(6)	C 53	0.00039	1.61798
959.	RY*	(7)	C 53	0.00032	1.85403
960.	RY*	(8)	C 53	0.00029	2.11923
961.	RY*	(9)	C 53	0.00021	2.09148
962.	RY*	(10)	C 53	0.00013	2.16627
963.	RY*	(11)	C 53	0.00010	1.99784
964.	RY*	(12)	C 53	0.00011	1.95924
965.	RY*	(13)	C 53	0.00003	2.41283
966.	RY*	(14)	C 53	0.00000	20.60996
967.	RY*	(1)	C 54	0.00150	0.88589
968.	RY*	(2)	C 54	0.00097	0.90000
969.	RY*	(3)	C 54	0.00026	1.13126
970.	RY*	(4)	C 54	0.00011	2.06076
971.	RY*	(5)	C 54	0.00012	1.46467
972.	RY*	(6)	C 54	0.00007	1.33664
973.	RY*	(7)	C 54	0.00003	1.95964
974.	RY*	(8)	C 54	0.00003	1.59809
975.	RY*	(9)	C 54	0.00003	2.13764
976.	RY*	(10)	C 54	0.00001	2.26031
977.	RY*	(11)	C 54	0.00001	1.89090
978.	RY*	(12)	C 54	0.00000	2.13906
979.	RY*	(13)	C 54	0.00001	2.09598
980.	RY*	(14)	C 54	0.00000	20.25877
981.	RY*	(1)	C 55	0.00160	0.94782
982.	RY*	(2)	C 55	0.00113	0.97102
983.	RY*	(3)	C 55	0.00043	0.91350
984.	RY*	(4)	C 55	0.00016	1.21927
985.	RY*	(5)	C 55	0.00015	1.74633
986.	RY*	(6)	C 55	0.00009	1.80177
987.	RY*	(7)	C 55	0.00009	2.38474
988.	RY*	(8)	C 55	0.00004	1.53856
989.	RY*	(9)	C 55	0.00004	2.25705
990.	RY*	(10)	C 55	0.00001	2.28460
991.	RY*	(11)	C 55	0.00002	1.87601
992.	RY*	(12)	C 55	0.00000	20.47851
993.	RY*	(13)	C 55	0.00001	2.43918
994.	RY*	(14)	C 55	0.00001	2.36213
995.	RY*	(1)	C 56	0.00167	0.94447
996.	RY*	(2)	C 56	0.00111	0.93842
997.	RY*	(3)	C 56	0.00050	0.85093
998.	RY*	(4)	C 56	0.00022	1.38867
999.	RY*	(5)	C 56	0.00013	1.83983
1000.	RY*	(6)	C 56	0.00010	1.74745
1001.	RY*	(7)	C 56	0.00004	1.61105
1002.	RY*	(8)	C 56	0.00005	2.25446
1003.	RY*	(9)	C 56	0.00003	2.25304
1004.	RY*	(10)	C 56	0.00001	2.04739
1005.	RY*	(11)	C 56	0.00001	2.44828
1006.	RY*	(12)	C 56	0.00001	2.46074
1007.	RY*	(13)	C 56	0.00001	2.05515
1008.	RY*	(14)	C 56	0.00000	20.55252
1009.	RY*	(1)	C 57	0.00187	0.77907
1010.	RY*	(2)	C 57	0.00134	0.85389
1011.	RY*	(3)	C 57	0.00047	1.11156
1012.	RY*	(4)	C 57	0.00025	1.36688
1013.	RY*	(5)	C 57	0.00018	1.58546
1014.	RY*	(6)	C 57	0.00015	1.71453
1015.	RY*	(7)	C 57	0.00008	2.19414
1016.	RY*	(8)	C 57	0.00006	2.03248
1017.	RY*	(9)	C 57	0.00002	2.37263
1018.	RY*	(10)	C 57	0.00003	2.00210
1019.	RY*	(11)	C 57	0.00002	2.54372
1020.	RY*	(12)	C 57	0.00001	2.32326
1021.	RY*	(13)	C 57	0.00000	20.15294
1022.	RY*	(14)	C 57	0.00000	2.03972
1023.	RY*	(1)	C 58	0.00156	0.94167
1024.	RY*	(2)	C 58	0.00112	0.89956

1025.	RY*	(3)	C	58	0.00046	0.83136
1026.	RY*	(4)	C	58	0.00018	1.37691
1027.	RY*	(5)	C	58	0.00014	1.56610
1028.	RY*	(6)	C	58	0.00010	1.86396
1029.	RY*	(7)	C	58	0.00006	2.20712
1030.	RY*	(8)	C	58	0.00004	1.37507
1031.	RY*	(9)	C	58	0.00004	2.29307
1032.	RY*	(10)	C	58	0.00001	2.21946
1033.	RY*	(11)	C	58	0.00001	2.39688
1034.	RY*	(12)	C	58	0.00001	2.45795
1035.	RY*	(13)	C	58	0.00001	2.08113
1036.	RY*	(14)	C	58	0.00000	20.38982
1037.	RY*	(1)	C	59	0.00167	0.85200
1038.	RY*	(2)	C	59	0.00108	0.91695
1039.	RY*	(3)	C	59	0.00050	0.87151
1040.	RY*	(4)	C	59	0.00021	1.09802
1041.	RY*	(5)	C	59	0.00016	1.67367
1042.	RY*	(6)	C	59	0.00010	2.17597
1043.	RY*	(7)	C	59	0.00008	2.26738
1044.	RY*	(8)	C	59	0.00005	1.71348
1045.	RY*	(9)	C	59	0.00004	1.73874
1046.	RY*	(10)	C	59	0.00001	2.45796
1047.	RY*	(11)	C	59	0.00001	2.51727
1048.	RY*	(12)	C	59	0.00000	20.37556
1049.	RY*	(13)	C	59	0.00001	2.22918
1050.	RY*	(14)	C	59	0.00001	1.93934
1051.	RY*	(1)	C	60	0.00173	0.89556
1052.	RY*	(2)	C	60	0.00133	0.86446
1053.	RY*	(3)	C	60	0.00047	1.12367
1054.	RY*	(4)	C	60	0.00023	1.13161
1055.	RY*	(5)	C	60	0.00019	1.80186
1056.	RY*	(6)	C	60	0.00011	1.65999
1057.	RY*	(7)	C	60	0.00006	2.30291
1058.	RY*	(8)	C	60	0.00003	1.65011
1059.	RY*	(9)	C	60	0.00004	2.63925
1060.	RY*	(10)	C	60	0.00001	2.11372
1061.	RY*	(11)	C	60	0.00001	2.52982
1062.	RY*	(12)	C	60	0.00001	2.09279
1063.	RY*	(13)	C	60	0.00001	2.32428
1064.	RY*	(14)	C	60	0.00000	20.27242
1065.	RY*	(1)	C	61	0.00159	0.95042
1066.	RY*	(2)	C	61	0.00108	0.92611
1067.	RY*	(3)	C	61	0.00046	0.80289
1068.	RY*	(4)	C	61	0.00019	1.52112
1069.	RY*	(5)	C	61	0.00014	1.58120
1070.	RY*	(6)	C	61	0.00010	1.77457
1071.	RY*	(7)	C	61	0.00006	2.16186
1072.	RY*	(8)	C	61	0.00004	1.47399
1073.	RY*	(9)	C	61	0.00004	2.35566
1074.	RY*	(10)	C	61	0.00001	2.25826
1075.	RY*	(11)	C	61	0.00001	2.24594
1076.	RY*	(12)	C	61	0.00001	2.25334
1077.	RY*	(13)	C	61	0.00000	20.52730
1078.	RY*	(14)	C	61	0.00001	2.30590
1079.	RY*	(1)	C	62	0.00178	0.81163
1080.	RY*	(2)	C	62	0.00127	0.85863
1081.	RY*	(3)	C	62	0.00040	1.07542
1082.	RY*	(4)	C	62	0.00023	1.26309
1083.	RY*	(5)	C	62	0.00016	1.61807
1084.	RY*	(6)	C	62	0.00012	1.54980
1085.	RY*	(7)	C	62	0.00007	2.17064
1086.	RY*	(8)	C	62	0.00007	2.06883
1087.	RY*	(9)	C	62	0.00003	2.49295
1088.	RY*	(10)	C	62	0.00004	2.06901
1089.	RY*	(11)	C	62	0.00000	20.24689
1090.	RY*	(12)	C	62	0.00001	2.15050
1091.	RY*	(13)	C	62	0.00001	2.24099
1092.	RY*	(14)	C	62	0.00001	2.27253
1093.	RY*	(1)	H	63	0.00043	1.79385
1094.	RY*	(2)	H	63	0.00028	1.61778
1095.	RY*	(3)	H	63	0.00011	1.97496

1096.	RY*	(4)	H	63	0.00010	1.16266
1097.	RY*	(5)	H	63	0.00003	2.44092
1098.	RY*	(1)	H	64	0.00043	1.76821
1099.	RY*	(2)	H	64	0.00028	1.64487
1100.	RY*	(3)	H	64	0.00011	1.93275
1101.	RY*	(4)	H	64	0.00010	1.10422
1102.	RY*	(5)	H	64	0.00003	2.47834
1103.	RY*	(1)	H	65	0.00120	0.61556
1104.	RY*	(2)	H	65	0.00029	1.81621
1105.	RY*	(3)	H	65	0.00026	2.07594
1106.	RY*	(4)	H	65	0.00011	2.02815
1107.	RY*	(5)	H	65	0.00004	2.72868
1108.	RY*	(1)	H	66	0.00029	1.22356
1109.	RY*	(2)	H	66	0.00022	1.61908
1110.	RY*	(3)	H	66	0.00018	1.12419
1111.	RY*	(4)	H	66	0.00012	2.03314
1112.	RY*	(5)	H	66	0.00002	2.75975
1113.	RY*	(1)	H	67	0.00103	0.62193
1114.	RY*	(2)	H	67	0.00028	2.22492
1115.	RY*	(3)	H	67	0.00024	1.68072
1116.	RY*	(4)	H	67	0.00013	2.02673
1117.	RY*	(5)	H	67	0.00004	2.73532
1118.	RY*	(1)	H	68	0.00136	0.61408
1119.	RY*	(2)	H	68	0.00033	2.05173
1120.	RY*	(3)	H	68	0.00025	1.87159
1121.	RY*	(4)	H	68	0.00011	2.02656
1122.	RY*	(5)	H	68	0.00004	2.71909
1123.	RY*	(1)	H	69	0.00031	1.11626
1124.	RY*	(2)	H	69	0.00024	1.62513
1125.	RY*	(3)	H	69	0.00018	1.21117
1126.	RY*	(4)	H	69	0.00012	2.02311
1127.	RY*	(5)	H	69	0.00002	2.74760
1128.	RY*	(1)	H	70	0.00114	0.60560
1129.	RY*	(2)	H	70	0.00027	2.22135
1130.	RY*	(3)	H	70	0.00026	1.64416
1131.	RY*	(4)	H	70	0.00011	2.01719
1132.	RY*	(5)	H	70	0.00004	2.72522
1133.	RY*	(1)	H	71	0.00044	1.79584
1134.	RY*	(2)	H	71	0.00033	1.65195
1135.	RY*	(3)	H	71	0.00012	1.99082
1136.	RY*	(4)	H	71	0.00010	1.12205
1137.	RY*	(5)	H	71	0.00003	2.49225
1138.	RY*	(1)	H	72	0.00044	1.76929
1139.	RY*	(2)	H	72	0.00033	1.64027
1140.	RY*	(3)	H	72	0.00011	1.98835
1141.	RY*	(4)	H	72	0.00010	1.10642
1142.	RY*	(5)	H	72	0.00003	2.53827
1143.	RY*	(1)	H	73	0.00131	0.61001
1144.	RY*	(2)	H	73	0.00028	1.92813
1145.	RY*	(3)	H	73	0.00026	1.94217
1146.	RY*	(4)	H	73	0.00011	2.02867
1147.	RY*	(5)	H	73	0.00004	2.73421
1148.	RY*	(1)	H	74	0.00032	1.16703
1149.	RY*	(2)	H	74	0.00023	1.62436
1150.	RY*	(3)	H	74	0.00019	1.17402
1151.	RY*	(4)	H	74	0.00012	2.02821
1152.	RY*	(5)	H	74	0.00002	2.75731
1153.	RY*	(1)	H	75	0.00114	0.61482
1154.	RY*	(2)	H	75	0.00028	2.23038
1155.	RY*	(3)	H	75	0.00024	1.66626
1156.	RY*	(4)	H	75	0.00014	2.02840
1157.	RY*	(5)	H	75	0.00004	2.73195
1158.	RY*	(1)	H	76	0.00129	0.63414
1159.	RY*	(2)	H	76	0.00032	2.13747
1160.	RY*	(3)	H	76	0.00024	1.78842
1161.	RY*	(4)	H	76	0.00013	2.04052
1162.	RY*	(5)	H	76	0.00004	2.72664
1163.	RY*	(1)	H	77	0.00031	1.12293
1164.	RY*	(2)	H	77	0.00022	1.61640
1165.	RY*	(3)	H	77	0.00019	1.22559
1166.	RY*	(4)	H	77	0.00012	2.02405

1167.	RY*	(5)	H	77	0.00002	2.75728
1168.	RY*	(1)	H	78	0.00125	0.61110
1169.	RY*	(2)	H	78	0.00026	2.22938
1170.	RY*	(3)	H	78	0.00026	1.64339
1171.	RY*	(4)	H	78	0.00011	2.02722
1172.	RY*	(5)	H	78	0.00004	2.72698
1173.	RY*	(1)	H	79	0.00168	0.86938
1174.	RY*	(2)	H	79	0.00027	2.22307
1175.	RY*	(3)	H	79	0.00017	1.90409
1176.	RY*	(4)	H	79	0.00013	2.22953
1177.	RY*	(5)	H	79	0.00001	2.89150
1178.	RY*	(1)	H	80	0.00357	0.77119
1179.	RY*	(2)	H	80	0.00027	2.43558
1180.	RY*	(3)	H	80	0.00017	2.06186
1181.	RY*	(4)	H	80	0.00013	1.99285
1182.	RY*	(5)	H	80	0.00002	2.83084
1183.	RY*	(1)	H	81	0.00179	0.83363
1184.	RY*	(2)	H	81	0.00029	2.22266
1185.	RY*	(3)	H	81	0.00019	1.94847
1186.	RY*	(4)	H	81	0.00013	2.15321
1187.	RY*	(5)	H	81	0.00002	2.84379
1188.	RY*	(1)	H	82	0.00302	0.74587
1189.	RY*	(2)	H	82	0.00024	2.40850
1190.	RY*	(3)	H	82	0.00018	2.02148
1191.	RY*	(4)	H	82	0.00013	2.03038
1192.	RY*	(5)	H	82	0.00002	2.82438
1193.	RY*	(1)	H	83	0.00174	0.80812
1194.	RY*	(2)	H	83	0.00026	2.20093
1195.	RY*	(3)	H	83	0.00018	1.90637
1196.	RY*	(4)	H	83	0.00012	2.22428
1197.	RY*	(5)	H	83	0.00002	2.86428
1198.	RY*	(1)	H	84	0.00176	0.71425
1199.	RY*	(2)	H	84	0.00023	2.35259
1200.	RY*	(3)	H	84	0.00017	1.98275
1201.	RY*	(4)	H	84	0.00013	2.06637
1202.	RY*	(5)	H	84	0.00002	2.79829
1203.	RY*	(1)	H	85	0.00183	0.77740
1204.	RY*	(2)	H	85	0.00029	2.22606
1205.	RY*	(3)	H	85	0.00018	1.93892
1206.	RY*	(4)	H	85	0.00012	2.12847
1207.	RY*	(5)	H	85	0.00002	2.81012
1208.	RY*	(1)	H	86	0.00160	0.73705
1209.	RY*	(2)	H	86	0.00025	2.16107
1210.	RY*	(3)	H	86	0.00017	1.91241
1211.	RY*	(4)	H	86	0.00012	2.13962
1212.	RY*	(5)	H	86	0.00002	2.82939
1213.	RY*	(1)	H	87	0.00064	0.70953
1214.	RY*	(2)	H	87	0.00019	1.88972
1215.	RY*	(3)	H	87	0.00012	1.78807
1216.	RY*	(4)	H	87	0.00007	1.74216
1217.	RY*	(5)	H	87	0.00002	2.71698
1218.	RY*	(1)	H	88	0.00071	0.89578
1219.	RY*	(2)	H	88	0.00024	1.79490
1220.	RY*	(3)	H	88	0.00012	1.80289
1221.	RY*	(4)	H	88	0.00007	1.71955
1222.	RY*	(5)	H	88	0.00002	2.66637
1223.	RY*	(1)	H	89	0.00090	1.12285
1224.	RY*	(2)	H	89	0.00019	1.85056
1225.	RY*	(3)	H	89	0.00012	1.86311
1226.	RY*	(4)	H	89	0.00010	1.90580
1227.	RY*	(5)	H	89	0.00002	2.66958
1228.	RY*	(1)	H	90	0.00064	0.73010
1229.	RY*	(2)	H	90	0.00016	1.82400
1230.	RY*	(3)	H	90	0.00013	1.85029
1231.	RY*	(4)	H	90	0.00006	1.68790
1232.	RY*	(5)	H	90	0.00002	2.67493
1233.	RY*	(1)	H	91	0.00062	1.02755
1234.	RY*	(2)	H	91	0.00015	1.81332
1235.	RY*	(3)	H	91	0.00015	1.79976
1236.	RY*	(4)	H	91	0.00004	1.63403
1237.	RY*	(5)	H	91	0.00002	2.69566

1238.	RY*	(1)	H	92	0.00089	0.80131
1239.	RY*	(2)	H	92	0.00014	1.82345
1240.	RY*	(3)	H	92	0.00013	1.76209
1241.	RY*	(4)	H	92	0.00006	1.69734
1242.	RY*	(5)	H	92	0.00002	2.72109
1243.	RY*	(1)	H	93	0.00063	0.69790
1244.	RY*	(2)	H	93	0.00014	1.79790
1245.	RY*	(3)	H	93	0.00014	1.81959
1246.	RY*	(4)	H	93	0.00006	1.68060
1247.	RY*	(5)	H	93	0.00002	2.70103
1248.	RY*	(1)	H	94	0.00076	0.91344
1249.	RY*	(2)	H	94	0.00018	1.78692
1250.	RY*	(3)	H	94	0.00015	1.79901
1251.	RY*	(4)	H	94	0.00006	1.60698
1252.	RY*	(5)	H	94	0.00002	2.66551
1253.	RY*	(1)	H	95	0.00054	0.76418
1254.	RY*	(2)	H	95	0.00014	1.83136
1255.	RY*	(3)	H	95	0.00013	1.89822
1256.	RY*	(4)	H	95	0.00007	1.59324
1257.	RY*	(5)	H	95	0.00001	2.70840
1258.	RY*	(1)	H	96	0.00077	0.62470
1259.	RY*	(2)	H	96	0.00018	1.83649
1260.	RY*	(3)	H	96	0.00013	1.80780
1261.	RY*	(4)	H	96	0.00010	1.86326
1262.	RY*	(5)	H	96	0.00002	2.73045
1263.	RY*	(1)	H	97	0.00090	0.89192
1264.	RY*	(2)	H	97	0.00025	2.41614
1265.	RY*	(3)	H	97	0.00012	1.88045
1266.	RY*	(4)	H	97	0.00009	1.86340
1267.	RY*	(5)	H	97	0.00002	2.73974
1268.	RY*	(1)	H	98	0.00071	0.98641
1269.	RY*	(2)	H	98	0.00020	1.70195
1270.	RY*	(3)	H	98	0.00014	1.89711
1271.	RY*	(4)	H	98	0.00009	1.63643
1272.	RY*	(5)	H	98	0.00002	2.67976
1273.	RY*	(1)	H	99	0.00062	0.70536
1274.	RY*	(2)	H	99	0.00014	1.80266
1275.	RY*	(3)	H	99	0.00014	1.82016
1276.	RY*	(4)	H	99	0.00006	1.68172
1277.	RY*	(5)	H	99	0.00002	2.69190
1278.	RY*	(1)	H	100	0.00080	0.86635
1279.	RY*	(2)	H	100	0.00016	1.79842
1280.	RY*	(3)	H	100	0.00015	1.81577
1281.	RY*	(4)	H	100	0.00006	1.62492
1282.	RY*	(5)	H	100	0.00002	2.66602
1283.	RY*	(1)	H	101	0.00056	0.75690
1284.	RY*	(2)	H	101	0.00013	1.92768
1285.	RY*	(3)	H	101	0.00014	1.79989
1286.	RY*	(4)	H	101	0.00007	1.61722
1287.	RY*	(5)	H	101	0.00001	2.70993
1288.	RY*	(1)	H	102	0.00060	0.73052
1289.	RY*	(2)	H	102	0.00018	1.79870
1290.	RY*	(3)	H	102	0.00013	1.74538
1291.	RY*	(4)	H	102	0.00010	1.89615
1292.	RY*	(5)	H	102	0.00002	2.72772
1293.	RY*	(1)	H	103	0.00071	0.97446
1294.	RY*	(2)	H	103	0.00022	2.50420
1295.	RY*	(3)	H	103	0.00012	1.85293
1296.	RY*	(4)	H	103	0.00008	1.90415
1297.	RY*	(5)	H	103	0.00003	2.74695
1298.	RY*	(1)	H	104	0.00076	0.92555
1299.	RY*	(2)	H	104	0.00022	1.76298
1300.	RY*	(3)	H	104	0.00014	1.91786
1301.	RY*	(4)	H	104	0.00011	1.70568
1302.	RY*	(5)	H	104	0.00002	2.69090
1303.	RY*	(1)	H	105	0.00059	0.70072
1304.	RY*	(2)	H	105	0.00014	1.77845
1305.	RY*	(3)	H	105	0.00014	1.81145
1306.	RY*	(4)	H	105	0.00006	1.67339
1307.	RY*	(5)	H	105	0.00003	2.69450
1308.	RY*	(1)	H	106	0.00053	0.71215

1309.	RY*(	2)	H	106	0.00014	1.82376
1310.	RY*(	3)	H	106	0.00013	1.86905
1311.	RY*(	4)	H	106	0.00007	1.62568
1312.	RY*(	5)	H	106	0.00002	2.69300
1313.	RY*(	1)	H	107	0.00074	0.92496
1314.	RY*(	2)	H	107	0.00020	1.78659
1315.	RY*(	3)	H	107	0.00014	1.79177
1316.	RY*(	4)	H	107	0.00006	1.55249
1317.	RY*(	5)	H	107	0.00002	2.67933
1318.	RY*(	1)	H	108	0.00076	0.64259
1319.	RY*(	2)	H	108	0.00018	1.84225
1320.	RY*(	3)	H	108	0.00013	1.80704
1321.	RY*(	4)	H	108	0.00011	1.86115
1322.	RY*(	5)	H	108	0.00002	2.71187
1323.	RY*(	1)	H	109	0.00088	0.84659
1324.	RY*(	2)	H	109	0.00020	1.75570
1325.	RY*(	3)	H	109	0.00014	1.94752
1326.	RY*(	4)	H	109	0.00009	1.75711
1327.	RY*(	5)	H	109	0.00002	2.68362
1328.	RY*(	1)	H	110	0.00066	0.90989
1329.	RY*(	2)	H	110	0.00024	2.43109
1330.	RY*(	3)	H	110	0.00014	1.91267
1331.	RY*(	4)	H	110	0.00007	1.89506
1332.	RY*(	5)	H	110	0.00002	2.73635
1333.	RY*(	1)	H	111	0.00075	0.66146
1334.	RY*(	2)	H	111	0.00017	1.84752
1335.	RY*(	3)	H	111	0.00014	1.79931
1336.	RY*(	4)	H	111	0.00009	1.79512
1337.	RY*(	5)	H	111	0.00002	2.70555
1338.	RY*(	1)	H	112	0.00085	0.84559
1339.	RY*(	2)	H	112	0.00021	1.82039
1340.	RY*(	3)	H	112	0.00015	1.85275
1341.	RY*(	4)	H	112	0.00008	1.69433
1342.	RY*(	5)	H	112	0.00002	2.68168
1343.	RY*(	1)	H	113	0.00047	1.25220
1344.	RY*(	2)	H	113	0.00015	1.85904
1345.	RY*(	3)	H	113	0.00011	2.08192
1346.	RY*(	4)	H	113	0.00005	1.84175
1347.	RY*(	5)	H	113	0.00002	2.75513
1348.	RY*(	1)	H	114	0.00064	0.69363
1349.	RY*(	2)	H	114	0.00014	1.80121
1350.	RY*(	3)	H	114	0.00014	1.81947
1351.	RY*(	4)	H	114	0.00006	1.68962
1352.	RY*(	5)	H	114	0.00002	2.69883
1353.	RY*(	1)	H	115	0.00055	0.77470
1354.	RY*(	2)	H	115	0.00013	1.92434
1355.	RY*(	3)	H	115	0.00014	1.80773
1356.	RY*(	4)	H	115	0.00007	1.58426
1357.	RY*(	5)	H	115	0.00002	2.70666
1358.	RY*(	1)	H	116	0.00078	0.89106
1359.	RY*(	2)	H	116	0.00018	1.79692
1360.	RY*(	3)	H	116	0.00015	1.80172
1361.	RY*(	4)	H	116	0.00006	1.60334
1362.	RY*(	5)	H	116	0.00002	2.67269
1363.	RY*(	1)	H	117	0.00063	0.74818
1364.	RY*(	2)	H	117	0.00016	1.82064
1365.	RY*(	3)	H	117	0.00013	1.86209
1366.	RY*(	4)	H	117	0.00006	1.69002
1367.	RY*(	5)	H	117	0.00002	2.69143
1368.	RY*(	1)	H	118	0.00088	0.79119
1369.	RY*(	2)	H	118	0.00014	1.83336
1370.	RY*(	3)	H	118	0.00013	1.77163
1371.	RY*(	4)	H	118	0.00006	1.71378
1372.	RY*(	5)	H	118	0.00002	2.71969
1373.	RY*(	1)	H	119	0.00062	0.97863
1374.	RY*(	2)	H	119	0.00015	1.82347
1375.	RY*(	3)	H	119	0.00015	1.82648
1376.	RY*(	4)	H	119	0.00005	1.67412
1377.	RY*(	5)	H	119	0.00002	2.71322
1378.	RY*(	1)	H	120	0.00056	0.80439
1379.	RY*(	2)	H	120	0.00017	1.83674

1380.	RY*	(3)	H 120	0.00013	1.76527
1381.	RY*	(4)	H 120	0.00008	1.78266
1382.	RY*	(5)	H 120	0.00002	2.71997
1383.	RY*	(1)	H 121	0.00083	0.87271
1384.	RY*	(2)	H 121	0.00020	2.40013
1385.	RY*	(3)	H 121	0.00013	1.89478
1386.	RY*	(4)	H 121	0.00006	1.84799
1387.	RY*	(5)	H 121	0.00002	2.75149
1388.	RY*	(1)	H 122	0.00073	0.83245
1389.	RY*	(2)	H 122	0.00025	1.75042
1390.	RY*	(3)	H 122	0.00013	1.90770
1391.	RY*	(4)	H 122	0.00009	1.70012
1392.	RY*	(5)	H 122	0.00002	2.72641
1393.	RY*	(1)	H 123	0.00070	0.74128
1394.	RY*	(2)	H 123	0.00020	1.88868
1395.	RY*	(3)	H 123	0.00012	1.81763
1396.	RY*	(4)	H 123	0.00007	1.75120
1397.	RY*	(5)	H 123	0.00003	2.72200
1398.	RY*	(1)	H 124	0.00073	0.86185
1399.	RY*	(2)	H 124	0.00024	1.78412
1400.	RY*	(3)	H 124	0.00012	1.83974
1401.	RY*	(4)	H 124	0.00008	1.74178
1402.	RY*	(5)	H 124	0.00002	2.65696
1403.	RY*	(1)	H 125	0.00056	0.84236
1404.	RY*	(2)	H 125	0.00017	1.94721
1405.	RY*	(3)	H 125	0.00014	1.97302
1406.	RY*	(4)	H 125	0.00007	1.80244
1407.	RY*	(5)	H 125	0.00002	2.73228
1408.	RY*	(1)	H 126	0.00062	0.75508
1409.	RY*	(2)	H 126	0.00016	1.82932
1410.	RY*	(3)	H 126	0.00012	1.86322
1411.	RY*	(4)	H 126	0.00006	1.68041
1412.	RY*	(5)	H 126	0.00002	2.69509
1413.	RY*	(1)	H 127	0.00062	1.08144
1414.	RY*	(2)	H 127	0.00017	1.78061
1415.	RY*	(3)	H 127	0.00015	1.81164
1416.	RY*	(4)	H 127	0.00005	1.66893
1417.	RY*	(5)	H 127	0.00002	2.71974
1418.	RY*	(1)	H 128	0.00088	0.78126
1419.	RY*	(2)	H 128	0.00015	1.83365
1420.	RY*	(3)	H 128	0.00013	1.79183
1421.	RY*	(4)	H 128	0.00006	1.69953
1422.	RY*	(5)	H 128	0.00002	2.72371
1423.	RY*	(1)	H 129	0.00064	0.69535
1424.	RY*	(2)	H 129	0.00014	1.81770
1425.	RY*	(3)	H 129	0.00015	1.82297
1426.	RY*	(4)	H 129	0.00006	1.67837
1427.	RY*	(5)	H 129	0.00002	2.70271
1428.	RY*	(1)	H 130	0.00079	0.87993
1429.	RY*	(2)	H 130	0.00017	1.78541
1430.	RY*	(3)	H 130	0.00015	1.80595
1431.	RY*	(4)	H 130	0.00006	1.62807
1432.	RY*	(5)	H 130	0.00002	2.67961
1433.	RY*	(1)	H 131	0.00059	0.79981
1434.	RY*	(2)	H 131	0.00013	1.92011
1435.	RY*	(3)	H 131	0.00014	1.80174
1436.	RY*	(4)	H 131	0.00007	1.59487
1437.	RY*	(5)	H 131	0.00002	2.71060
1438.	RY*	(1)	H 132	0.00076	0.60165
1439.	RY*	(2)	H 132	0.00018	1.84445
1440.	RY*	(3)	H 132	0.00014	1.82504
1441.	RY*	(4)	H 132	0.00009	1.83983
1442.	RY*	(5)	H 132	0.00002	2.72752
1443.	RY*	(1)	H 133	0.00092	0.87791
1444.	RY*	(2)	H 133	0.00023	2.37742
1445.	RY*	(3)	H 133	0.00013	1.85754
1446.	RY*	(4)	H 133	0.00008	1.82668
1447.	RY*	(5)	H 133	0.00002	2.71545
1448.	RY*	(1)	H 134	0.00075	0.92314
1449.	RY*	(2)	H 134	0.00021	1.71696
1450.	RY*	(3)	H 134	0.00014	1.87739

1451. RY* (	4)	H	134		0.00009	1.66305
1452. RY* (	5)	H	134		0.00002	2.68313
1453. BD* (	1)	C	1 - O	2	0.04220	0.51533
1454. BD* (	2)	C	1 - O	2	0.48062	0.04161 224 (v), 223 (v), 241 (g), 227 (g) 231 (g), 247 (g)
1455. BD* (	1)	C	1 - B	14	0.11075	0.33338 1604 (r), 1484 (g), 1594 (r) 1513 (r), 1601 (r), 1473 (v) 1475 (v), 411 (g), 1597 (r) 1589 (r), 1453 (g)
1456. BD* (	1)	C	1 - B	15	0.06815	0.45203
1457. BD* (	1)	C	3 - C	4	0.03587	0.45910
1458. BD* (	1)	C	3 - C	8	0.02327	0.47800
1459. BD* (	2)	C	3 - C	8	0.33135	0.01402 1462 (v), 1467 (v), 1581 (v) 326 (g), 1582 (v)
1460. BD* (	1)	C	3 - C	53	0.03220	0.33721
1461. BD* (	1)	C	4 - C	5	0.03690	0.45890
1462. BD* (	2)	C	4 - C	5	0.37359	0.00915 1467 (v), 1459 (v), 223 (r) 1472 (v), 1474 (v), 1576 (v) 1575 (v), 298 (v), 269 (g)
1463. BD* (	1)	C	4 - N	9	0.03921	0.30940
1464. BD* (	1)	C	5 - C	6	0.02290	0.47118
1465. BD* (	1)	C	5 - C	51	0.03210	0.32453
1466. BD* (	1)	C	6 - C	7	0.01486	0.48888
1467. BD* (	2)	C	6 - C	7	0.33555	0.00445 1462 (v), 1459 (v), 312 (g) 298 (g)
1468. BD* (	1)	C	6 - H	78	0.01759	0.34499
1469. BD* (	1)	C	7 - C	8	0.01498	0.48832
1470. BD* (	1)	C	7 - H	77	0.01576	0.34484
1471. BD* (	1)	C	8 - H	76	0.01781	0.35502
1472. BD* (	1)	N	9 - C	10	0.04581	0.34876
1473. BD* (	2)	N	9 - C	10	0.72110	-0.04497 1481 (v), 1455 (v), 353 (g) 1461 (v), 1484 (v), 1457 (v) 355 (g)
1474. BD* (	1)	N	9 - C	13	0.03014	0.34314
1475. BD* (	1)	C	10 - N	11	0.04659	0.34712
1476. BD* (	1)	C	10 - B	14	0.02957	0.44002
1477. BD* (	1)	N	11 - C	12	0.02954	0.34108
1478. BD* (	1)	N	11 - C	41	0.03975	0.30683
1479. BD* (	2)	N	11 - C	41	0.45441	0.99640 858 (v), 802 (v), 1550 (g) 1549 (g), 794 (g), 788 (g), 800 (v) 789 (g), 787 (g), 792 (g), 856 (v) 884 (r), 996 (r), 1551 (g), 842 (r) 870 (r), 793 (g), 809 (v), 869 (r) 790 (g), 844 (r), 816 (r), 855 (v) 805 (v), 865 (v), 366 (g), 867 (v) 828 (r), 338 (r), 1560 (v), 897 (r) 1024 (r), 857 (v), 913 (r), 811 (v) 866 (v), 1552 (v), 372 (g) 1413 (r), 861 (v), 871 (r), 898 (r) 912 (r), 907 (r), 832 (r), 813 (r) 903 (r), 257 (r), 411 (r), 848 (r) 835 (r), 819 (r), 1030 (r), 853 (r) 824 (r), 860 (v), 226 (r), 902 (r) 409 (r), 799 (v), 850 (r), 801 (v) 864 (v), 1293 (r), 808 (v), 890 (r)
1480. BD* (	1)	C	12 - C	13	0.00980	0.50420
1481. BD* (	2)	C	12 - C	13	0.28111	-0.01244 1473 (v), 384 (g), 398 (g)
1482. BD* (	1)	C	12 - H	71	0.01213	0.33596
1483. BD* (	1)	C	13 - H	72	0.01229	0.33598
1484. BD* (	1)	B	14 - B	15	0.04014	0.48411
1485. BD* (	1)	B	15 - C	16	0.05483	0.40975
1486. BD* (	1)	C	16 - N	17	0.04814	0.35327
1487. BD* (	2)	C	16 - N	17	0.60501	-0.05833 224 (v), 1492 (v), 437 (g) 1498 (v), 438 (g), 1497 (v) 223 (r)
1488. BD* (	1)	C	16 - N	20	0.05247	0.35270
1489. BD* (	1)	N	17 - C	18	0.03043	0.33474
1490. BD* (	1)	N	17 - C	21	0.04192	0.28877
1491. BD* (	1)	C	18 - C	19	0.00978	0.47647
1492. BD* (	2)	C	18 - C	19	0.28227	-0.03212 1487 (v), 468 (g), 482 (g)
1493. BD* (	1)	C	18 - H	63	0.01214	0.31976

1494.	BD*	(1)	C	19	-	N	20	0.03069	0.32900
1495.	BD*	(1)	C	19	-	H	64	0.01258	0.31713
1496.	BD*	(1)	N	20	-	C	31	0.04104	0.28946
1497.	BD*	(1)	C	21	-	C	22	0.03442	0.45657
1498.	BD*	(1)	C	21	-	C	26	0.03531	0.45647
1499.	BD*	(2)	C	21	-	C	26	0.38598	0.00727 1506 (v) , 1501 (v) , 1486 (v) 1489 (v) , 1518 (v) , 1517 (v) 564 (v) , 507 (g)
1500.	BD*	(1)	C	22	-	C	23	0.02275	0.47953
1501.	BD*	(2)	C	22	-	C	23	0.32447	0.01569 1499 (v) , 1506 (v) , 1511 (v) 536 (g) , 1512 (v)
1502.	BD*	(1)	C	22	-	C	27	0.03210	0.33217
1503.	BD*	(1)	C	23	-	C	24	0.01470	0.49071
1504.	BD*	(1)	C	23	-	H	67	0.01740	0.35479
1505.	BD*	(1)	C	24	-	C	25	0.01474	0.48984
1506.	BD*	(2)	C	24	-	C	25	0.33515	0.00573 1499 (v) , 1501 (v) , 550 (g) 564 (g)
1507.	BD*	(1)	C	24	-	H	66	0.01546	0.34666
1508.	BD*	(1)	C	25	-	C	26	0.02276	0.47081
1509.	BD*	(1)	C	25	-	H	65	0.01723	0.34672
1510.	BD*	(1)	C	26	-	C	29	0.03221	0.32251
1511.	BD*	(1)	C	27	-	C	28	0.01812	0.28612
1512.	BD*	(1)	C	27	-	C	62	0.01403	0.30271
1513.	BD*	(1)	C	27	-	H	84	0.02449	0.32569
1514.	BD*	(1)	C	28	-	H	90	0.00804	0.32412
1515.	BD*	(1)	C	28	-	H	91	0.00798	0.32860
1516.	BD*	(1)	C	28	-	H	92	0.01047	0.32142
1517.	BD*	(1)	C	29	-	C	30	0.01761	0.28142
1518.	BD*	(1)	C	29	-	C	61	0.01761	0.28775
1519.	BD*	(1)	C	29	-	H	83	0.02465	0.31304
1520.	BD*	(1)	C	30	-	H	93	0.00762	0.31884
1521.	BD*	(1)	C	30	-	H	94	0.01056	0.31590
1522.	BD*	(1)	C	30	-	H	95	0.00687	0.32035
1523.	BD*	(1)	C	31	-	C	32	0.03513	0.44686
1524.	BD*	(1)	C	31	-	C	36	0.03523	0.45149
1525.	BD*	(2)	C	31	-	C	36	0.37263	0.00103 1527 (v) , 1532 (v) , 1543 (v) 1494 (v) , 1488 (v) , 1544 (v) 647 (g) , 704 (v)
1526.	BD*	(1)	C	32	-	C	33	0.02267	0.46340
1527.	BD*	(2)	C	32	-	C	33	0.34032	0.00070 1525 (v) , 1532 (v) , 1538 (v) 1537 (v) , 676 (g)
1528.	BD*	(1)	C	32	-	C	37	0.03229	0.31681
1529.	BD*	(1)	C	33	-	C	34	0.01475	0.47915
1530.	BD*	(1)	C	33	-	H	70	0.01721	0.33927
1531.	BD*	(1)	C	34	-	C	35	0.01478	0.47953
1532.	BD*	(2)	C	34	-	C	35	0.33303	-0.00352 1527 (v) , 1525 (v) , 690 (g) 704 (g)
1533.	BD*	(1)	C	34	-	H	69	0.01550	0.33870
1534.	BD*	(1)	C	35	-	C	36	0.02305	0.46508
1535.	BD*	(1)	C	35	-	H	68	0.01717	0.34235
1536.	BD*	(1)	C	36	-	C	39	0.03217	0.32192
1537.	BD*	(1)	C	37	-	C	38	0.01669	0.27981
1538.	BD*	(1)	C	37	-	C	55	0.01793	0.28432
1539.	BD*	(1)	C	37	-	H	85	0.02520	0.30853
1540.	BD*	(1)	C	38	-	H	105	0.00720	0.31659
1541.	BD*	(1)	C	38	-	H	106	0.00679	0.31780
1542.	BD*	(1)	C	38	-	H	107	0.01082	0.31202
1543.	BD*	(1)	C	39	-	C	40	0.01773	0.28181
1544.	BD*	(1)	C	39	-	C	56	0.01637	0.29369
1545.	BD*	(1)	C	39	-	H	86	0.02379	0.31526
1546.	BD*	(1)	C	40	-	H	99	0.00750	0.32021
1547.	BD*	(1)	C	40	-	H	100	0.01046	0.31551
1548.	BD*	(1)	C	40	-	H	101	0.00695	0.32045
1549.	BD*	(1)	C	41	-	C	42	0.02999	0.63774
1550.	BD*	(1)	C	41	-	C	46	0.03084	0.63927
1551.	BD*	(2)	C	41	-	C	46	0.37132	0.02626 1553 (v) , 1558 (v) , 223 (r) 1479 (g) , 1475 (v) , 1569 (v) 1477 (v) , 1549 (g) , 1570 (v) 1550 (g) , 787 (g) , 843 (v) , 788 (g)
1552.	BD*	(1)	C	42	-	C	43	0.02303	0.47717
1553.	BD*	(2)	C	42	-	C	43	0.33091	0.01298 1558 (v) , 1551 (v) , 1563 (v)

1554.	BD*	(1)	C	42 - C	47	0.03204	814 (g), 1564 (v), 815 (g)	0.33798
1555.	BD*	(1)	C	43 - C	44	0.01506		0.48865
1556.	BD*	(1)	C	43 - H	75	0.01779		0.35502
1557.	BD*	(1)	C	44 - C	45	0.01496		0.48977
1558.	BD*	(2)	C	44 - C	45	0.33468	0.00403	1553 (v), 1551 (v), 829 (g)
								843 (g)
1559.	BD*	(1)	C	44 - H	74	0.01582		0.34526
1560.	BD*	(1)	C	45 - C	46	0.02319		0.47103
1561.	BD*	(1)	C	45 - H	73	0.01777		0.34587
1562.	BD*	(1)	C	46 - C	49	0.03202		0.32583
1563.	BD*	(1)	C	47 - C	48	0.01776		0.29402
1564.	BD*	(1)	C	47 - C	57	0.01407		0.30738
1565.	BD*	(1)	C	47 - H	80	0.02568		0.35553
1566.	BD*	(1)	C	48 - H	126	0.00771		0.33477
1567.	BD*	(1)	C	48 - H	127	0.00801		0.33974
1568.	BD*	(1)	C	48 - H	128	0.01041		0.32767
1569.	BD*	(1)	C	49 - C	50	0.01781		0.28319
1570.	BD*	(1)	C	49 - C	58	0.01742		0.28894
1571.	BD*	(1)	C	49 - H	79	0.02452		0.32096
1572.	BD*	(1)	C	50 - H	129	0.00762		0.32054
1573.	BD*	(1)	C	50 - H	130	0.01064		0.31734
1574.	BD*	(1)	C	50 - H	131	0.00691		0.32406
1575.	BD*	(1)	C	51 - C	52	0.01736		0.28291
1576.	BD*	(1)	C	51 - C	59	0.01808		0.28864
1577.	BD*	(1)	C	51 - H	81	0.02484		0.31987
1578.	BD*	(1)	C	52 - H	114	0.00758		0.32098
1579.	BD*	(1)	C	52 - H	115	0.00682		0.32379
1580.	BD*	(1)	C	52 - H	116	0.01069		0.31728
1581.	BD*	(1)	C	53 - C	54	0.01793		0.29367
1582.	BD*	(1)	C	53 - C	60	0.01440		0.30966
1583.	BD*	(1)	C	53 - H	82	0.02457		0.35020
1584.	BD*	(1)	C	54 - H	117	0.00781		0.33391
1585.	BD*	(1)	C	54 - H	118	0.01050		0.32745
1586.	BD*	(1)	C	54 - H	119	0.00765		0.33710
1587.	BD*	(1)	C	55 - H	108	0.00767		0.32215
1588.	BD*	(1)	C	55 - H	109	0.01032		0.31999
1589.	BD*	(1)	C	55 - H	110	0.00695		0.34672
1590.	BD*	(1)	C	56 - H	102	0.00705		0.32957
1591.	BD*	(1)	C	56 - H	103	0.00748		0.35656
1592.	BD*	(1)	C	56 - H	104	0.01059		0.32491
1593.	BD*	(1)	C	57 - H	123	0.00670		0.35046
1594.	BD*	(1)	C	57 - H	124	0.01162		0.33261
1595.	BD*	(1)	C	57 - H	125	0.00660		0.34904
1596.	BD*	(1)	C	58 - H	132	0.00758		0.32308
1597.	BD*	(1)	C	58 - H	133	0.00692		0.34711
1598.	BD*	(1)	C	58 - H	134	0.01074		0.31874
1599.	BD*	(1)	C	59 - H	111	0.00771		0.32248
1600.	BD*	(1)	C	59 - H	112	0.01068		0.31907
1601.	BD*	(1)	C	59 - H	113	0.00685		0.34276
1602.	BD*	(1)	C	60 - H	120	0.00651		0.35076
1603.	BD*	(1)	C	60 - H	121	0.00663		0.36399
1604.	BD*	(1)	C	60 - H	122	0.01163		0.33398
1605.	BD*	(1)	C	61 - H	96	0.00764		0.32425
1606.	BD*	(1)	C	61 - H	97	0.00685		0.34830
1607.	BD*	(1)	C	61 - H	98	0.01033		0.32136
1608.	BD*	(1)	C	62 - H	87	0.00677		0.33607
1609.	BD*	(1)	C	62 - H	88	0.01126		0.32918
1610.	BD*	(1)	C	62 - H	89	0.00967		0.36987

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      Total Lewis  436.90072  ( 97.5225%)
Valence non-Lewis  10.37751  (  2.3164%)
Rydberg non-Lewis   0.72177  (  0.1611%)
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      Total unit  1  448.00000  (100.0000%)
      Charge unit  1    0.00000

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NATURAL LOCALIZED MOLECULAR ORBITAL (NLMO) ANALYSIS:

Highest occupied NBOs are not at the beginning of the NBO list;

The NLMO program is not currently set up to handle this.

Sorting of NBOs:	160	178	175	169	167	174	168	177	176	189
Sorting of NBOs:	179	199	170	171	162	195	187	197	209	207
Sorting of NBOs:	190	194	159	185	184	192	204	163	196	180
Sorting of NBOs:	191	200	193	188	198	161	208	210	211	205
Sorting of NBOs:	202	165	186	182	213	217	203	164	216	183
Sorting of NBOs:	219	201	166	181	212	206	214	215	220	218
Sorting of NBOs:	172	173	1	36	34	37	42	44	23	22
Sorting of NBOs:	20	25	38	11	26	39	28	79	77	72
Sorting of NBOs:	71	74	82	105	14	53	46	103	17	51
Sorting of NBOs:	45	9	56	108	12	48	5	100	6	221
Sorting of NBOs:	76	84	58	110	13	50	85	102	8	65
Sorting of NBOs:	86	91	117	123	124	66	118	92	59	60
Sorting of NBOs:	112	130	129	111	43	41	24	33	31	30
Sorting of NBOs:	81	78	83	109	16	107	57	18	55	104
Sorting of NBOs:	19	52	90	89	88	69	95	70	96	68
Sorting of NBOs:	128	121	94	122	127	126	120	63	136	148
Sorting of NBOs:	146	155	135	147	64	144	62	153	149	145
Sorting of NBOs:	137	140	154	134	115	87	133	138	116	132
Sorting of NBOs:	67	142	157	114	139	125	152	93	119	156
Sorting of NBOs:	143	141	151	158	150	61	97	4	131	113
Sorting of NBOs:	98	3	35	32	21	40	2	225	29	73
Sorting of NBOs:	80	27	75	47	10	106	15	54	101	7
Sorting of NBOs:	49	99	222	1487	1473	1492	1481	1532	1527	1525
Sorting of NBOs:	1558	1467	1506	1499	1462	1553	1459	1501	1551	224
Sorting of NBOs:	223	1454	1537	1517	1543	1575	1569	1538	1511	1518
Sorting of NBOs:	1576	1490	1570	1496	1581	1544	1563	1512	1478	1564
Sorting of NBOs:	1539	1463	1582	1542	1519	1545	1547	1521	1540	1528
Sorting of NBOs:	1495	1580	1573	1541	1598	1520	1600	1493	1577	1588
Sorting of NBOs:	1546	1522	1548	1572	1571	1578	1607	1516	1536	1587
Sorting of NBOs:	1599	1510	1596	1579	1574	1514	1605	1465	1592	1513
Sorting of NBOs:	1562	1585	1568	1515	1494	1609	1590	1502	1594	1455
Sorting of NBOs:	1584	1604	1489	1566	1482	1483	1608	1586	1460	1554
Sorting of NBOs:	1533	1530	1567	1477	1535	1601	1474	1470	1468	1559
Sorting of NBOs:	1561	1507	1589	1509	1597	1475	1606	1472	1595	1583
Sorting of NBOs:	1593	1602	1488	1486	1504	1556	1471	1565	1591	1603
Sorting of NBOs:	1610	1485	1476	1523	1524	1456	1498	1497	1461	1457
Sorting of NBOs:	1526	1534	1508	1560	1464	1491	1552	1458	1529	1500
Sorting of NBOs:	1531	1484	1469	1555	1466	1557	1505	1503	1480	1453
Sorting of NBOs:	843	298	312	829	564	550	704	231	690	478
Sorting of NBOs:	1438	1128	1143	1168	1118	1153	1103	464	1113	1258
Sorting of NBOs:	1158	1549	1550	1318	1333	394	380	410	521	1348
Sorting of NBOs:	1423	1243	1303	1273	1213	1308	1198	243	326	1228
Sorting of NBOs:	1288	676	1208	857	1393	647	451	814	1188	1363
Sorting of NBOs:	269	1408	507	1283	1253	744	1178	1353	1203	1009
Sorting of NBOs:	1418	632	939	787	718	241	911	1368	256	577
Sorting of NBOs:	940	745	1433	772	1238	1067	1378	366	1193	1079
Sorting of NBOs:	912	424	633	801	1025	1388	1183	493	1403	536
Sorting of NBOs:	1338	1323	997	1037	535	1010	240	1080	338	1398
Sorting of NBOs:	1052	1278	773	1173	1039	1383	662	1443	604	1428
Sorting of NBOs:	967	425	605	884	1358	1263	1051	1218	230	883
Sorting of NBOs:	284	815	1024	968	1328	1248	983	1038	1448	1313
Sorting of NBOs:	1298	675	1066	661	996	1023	995	981	1065	452
Sorting of NBOs:	283	522	982	1293	899	1373	927	508	1268	325
Sorting of NBOs:	858	1479	663	719	802	226	591	285	1233	634
Sorting of NBOs:	620	941	494	913	257	732	746	953	869	453
Sorting of NBOs:	800	523	557	578	396	340	382	871	777	590
Sorting of NBOs:	356	1081	749	495	368	1413	703	255	480	648
Sorting of NBOs:	774	369	1040	563	579	885	835	760	1101	1141
Sorting of NBOs:	297	842	954	758	1011	730	466	897	618	717
Sorting of NBOs:	1123	925	637	1136	1223	1163	870	1053	409	1110
Sorting of NBOs:	969	1054	606	856	397	481	270	830	1096	467
Sorting of NBOs:	1148	1150	305	955	902	828	827	689	623	688
Sorting of NBOs:	310	383	311	549	696	1125	411	984	548	691
Sorting of NBOs:	1108	1165	930	426	437	944	1343	242	506	1082
Sorting of NBOs:	551	956	479	786	683	520	677	646	816	327
Sorting of NBOs:	844	395	415	299	569	537	465	705	381	972
Sorting of NBOs:	698	735	916	872	268	254	423	1012	799	431
Sorting of NBOs:	565	1030	1026	341	320	763	716	492	998	339
Sorting of NBOs:	702	855	660	576	282	324	888	357	841	674
Sorting of NBOs:	813	609	296	562	534	484	367	314	754	833

Sorting of NBOs:	485	438	271	593	594	971	788	421	353	318
Sorting of NBOs:	1072	607	450	543	850	611	837	319	483	810
Sorting of NBOs:	333	946	898	592	470	727	655	385	926	386
Sorting of NBOs:	408	439	469	265	1068	399	440	708	886	988
Sorting of NBOs:	435	739	442	401	821	1084	1316	731	471	759
Sorting of NBOs:	1027	619	695	555	359	293	775	866	387	1069
Sorting of NBOs:	665	1356	1013	641	355	792	915	1256	1436	974
Sorting of NBOs:	400	936	649	259	742	1361	680	823	427	789
Sorting of NBOs:	1251	793	570	1001	762	874	1164	734	1286	1094
Sorting of NBOs:	958	1083	1109	848	1149	1281	1124	1311	595	443
Sorting of NBOs:	1431	671	422	541	1236	1271	747	942	558	1139
Sorting of NBOs:	531	313	1170	1130	441	352	304	1099	914	653
Sorting of NBOs:	544	1058	635	1134	509	1056	804	1451	1155	1416
Sorting of NBOs:	513	1306	1041	1376	354	1426	1411	1246	1115	1276
Sorting of NBOs:	1231	622	574	1351	1366	737	525	236	1341	276
Sorting of NBOs:	710	1241	629	1421	1391	1269	1301	336	901	275
Sorting of NBOs:	713	1044	1371	1014	587	1449	1221	720	770	852
Sorting of NBOs:	820	554	847	582	790	417	331	468	515	851
Sorting of NBOs:	909	1045	482	1401	1216	288	1290	985	1000	624
Sorting of NBOs:	258	1389	694	1396	552	929	1324	1326	714	765
Sorting of NBOs:	302	234	943	819	1240	1299	229	1380	681	722
Sorting of NBOs:	384	1098	1138	860	398	685	1370	330	447	934
Sorting of NBOs:	524	1070	920	861	766	1304	932	1414	287	890
Sorting of NBOs:	1381	1399	1429	1314	1249	1215	1160	476	512	1315
Sorting of NBOs:	1420	1093	1219	1336	1133	803	1359	1244	1279	1289
Sorting of NBOs:	1250	794	1335	1235	1285	1349	1360	1435	986	1055
Sorting of NBOs:	1406	1274	1220	1430	1320	1355	1260	1305	1415	709
Sorting of NBOs:	1234	1280	692	1104	1395	873	1424	322	711	316
Sorting of NBOs:	1350	1245	1275	900	1339	1364	436	651	306	957
Sorting of NBOs:	636	1425	1239	1374	761	1309	1229	1440	412	581
Sorting of NBOs:	1375	1446	889	580	560	1409	277	1254	335	849
Sorting of NBOs:	1369	1419	1259	1379	780	666	723	601	402	1400
Sorting of NBOs:	1441	999	307	701	667	1346	568	805	1319	859
Sorting of NBOs:	1439	598	678	1334	1386	1230	1224	488	1340	863
Sorting of NBOs:	1295	904	627	959	428	621	791	1445	733	862
Sorting of NBOs:	664	1344	1321	807	1365	566	1225	538	1410	1261
Sorting of NBOs:	1266	1028	834	721	1310	289	1120	895	991	300
Sorting of NBOs:	389	1450	928	1265	290	845	583	650	950	1394
Sorting of NBOs:	328	1214	977	286	706	540	817	831	1385	1331
Sorting of NBOs:	1291	1270	527	545	1255	363	764	668	1175	1296
Sorting of NBOs:	1226	1195	776	652	1390	781	1210	358	1330	272
Sorting of NBOs:	429	879	490	1300	514	1434	887	1354	1284	1144
Sorting of NBOs:	274	614	1100	528	473	526	876	260	1205	907
Sorting of NBOs:	1050	262	1145	906	806	596	1404	1325	1185	233
Sorting of NBOs:	767	390	573	839	654	610	964	973	922	487
Sorting of NBOs:	406	475	404	724	584	510	1405	597	1095	1200
Sorting of NBOs:	1140	608	625	1135	1181	615	896	840	963	600
Sorting of NBOs:	1018	935	796	877	273	261	279	918	628	903
Sorting of NBOs:	1131	945	303	1190	1126	1166	1121	1116	684	1171
Sorting of NBOs:	1106	1151	1156	1146	931	682	571	1191	750	1016
Sorting of NBOs:	517	511	1111	586	736	1022	1161	626	1004	923
Sorting of NBOs:	1119	784	1007	824	643	970	1180	227	1201	561
Sorting of NBOs:	1086	1088	785	1105	905	572	317	1035	1345	542
Sorting of NBOs:	961	1062	979	738	539	656	880	748	700	1060
Sorting of NBOs:	960	875	756	1206	818	321	640	768	933	1159
Sorting of NBOs:	975	978	1211	924	753	332	878	1090	1186	391
Sorting of NBOs:	329	891	1209	779	1071	962	825	1085	757	292
Sorting of NBOs:	1042	752	639	952	822	864	893	638	1015	599
Sorting of NBOs:	1194	612	1029	919	740	751	434	1032	1129	1184
Sorting of NBOs:	1174	1196	1114	392	1204	1049	1169	1176	1154	669
Sorting of NBOs:	725	617	496	948	342	1091	235	1075	228	1003
Sorting of NBOs:	1076	1002	686	989	642	361	1074	976	454	1043
Sorting of NBOs:	644	613	1092	949	990	782	370	308	445	1031
Sorting of NBOs:	1057	1078	489	474	809	1020	697	1063	670	263
Sorting of NBOs:	741	334	1199	264	602	529	1073	679	994	546
Sorting of NBOs:	769	405	707	630	894	532	1017	585	658	1444
Sorting of NBOs:	987	280	726	446	518	501	344	498	266	712
Sorting of NBOs:	1033	553	778	808	459	1384	811	588	908	881
Sorting of NBOs:	418	1189	232	836	937	372	965	832	728	1264
Sorting of NBOs:	315	291	456	657	294	797	371	1329	846	1179
Sorting of NBOs:	672	362	993	1097	867	530	1005	865	567	556

Sorting of NBOs:	1034	1046	1006	301	343	497	237	516	1102	278
Sorting of NBOs:	693	448	1137	1087	1294	345	1047	853	795	1061
Sorting of NBOs:	414	1142	374	455	1019	364	503	500	457	462
Sorting of NBOs:	917	377	238	1059	1402	444	1252	1282	1222	486
Sorting of NBOs:	502	1227	1362	350	1232	1317	1432	1272	1342	1452
Sorting of NBOs:	403	1327	1302	1367	1277	1312	249	1307	1412	1237
Sorting of NBOs:	1352	1247	1427	1337	1357	1257	1287	1437	1322	1377
Sorting of NBOs:	1447	1217	375	1122	1372	1417	1382	1242	1397	1422
Sorting of NBOs:	1132	1392	1162	1172	1442	1292	1107	1262	252	1157
Sorting of NBOs:	1407	1147	1117	1332	1267	460	1297	1127	1387	1347
Sorting of NBOs:	1167	1152	1112	378	349	388	461	472	376	1202
Sorting of NBOs:	420	504	1207	1192	1212	1182	348	1187	1197	1177
Sorting of NBOs:	947	250	245	346	360	247	432	347	251	373
Sorting of NBOs:	246	413	458	499	433	248	419	244	416	430
Sorting of NBOs:	951	783	921	645	239	755	449	365	1021	616
Sorting of NBOs:	1089	980	892	1064	1048	1036	992	1077	1008	882
Sorting of NBOs:	966	826	547	687	603	854	309	337	575	938
Sorting of NBOs:	715	559	673	743	910	533	631	295	519	838
Sorting of NBOs:	729	771	323	868	393	477	699	407	589	812
Sorting of NBOs:	267	491	798	281	659	351	505	463	379	253
Reordering of NBOs for storage:	160	178	175	169	167	174	168	177	176	189
Reordering of NBOs for storage:	179	199	170	171	162	195	187	197	209	207
Reordering of NBOs for storage:	190	194	159	185	184	192	204	163	196	180
Reordering of NBOs for storage:	191	200	193	188	198	161	208	210	211	205
Reordering of NBOs for storage:	202	165	186	182	213	217	203	164	216	183
Reordering of NBOs for storage:	219	201	166	181	212	206	214	215	220	218
Reordering of NBOs for storage:	172	173	1	36	34	37	42	44	23	22
Reordering of NBOs for storage:	20	25	38	11	26	39	28	79	77	72
Reordering of NBOs for storage:	71	74	82	105	14	53	46	103	17	51
Reordering of NBOs for storage:	45	9	56	108	12	48	5	100	6	221
Reordering of NBOs for storage:	76	84	58	110	13	50	85	102	8	65
Reordering of NBOs for storage:	86	91	117	123	124	66	118	92	59	60
Reordering of NBOs for storage:	112	130	129	111	43	41	24	33	31	30
Reordering of NBOs for storage:	81	78	83	109	16	107	57	18	55	104
Reordering of NBOs for storage:	19	52	90	89	88	69	95	70	96	68
Reordering of NBOs for storage:	128	121	94	122	127	126	120	63	136	148
Reordering of NBOs for storage:	146	155	135	147	64	144	62	153	149	145
Reordering of NBOs for storage:	137	140	154	134	115	87	133	138	116	132
Reordering of NBOs for storage:	67	142	157	114	139	125	152	93	119	156
Reordering of NBOs for storage:	143	141	151	158	150	61	97	4	131	113
Reordering of NBOs for storage:	98	3	35	32	21	40	2	225	29	73
Reordering of NBOs for storage:	80	27	75	47	10	106	15	54	101	7
Reordering of NBOs for storage:	49	99	222	224	1487	1473	1492	1481	1532	1527
Reordering of NBOs for storage:	1525	1558	1467	1506	1499	1462	1553	1459	1501	1551
Reordering of NBOs for storage:	223	1454	1537	1517	1543	1575	1569	1538	1511	1518
Reordering of NBOs for storage:	1576	1490	1570	1496	1581	1544	1563	1512	1478	1564
Reordering of NBOs for storage:	1539	1463	1582	1542	1519	1545	1547	1521	1540	1528
Reordering of NBOs for storage:	1495	1580	1573	1541	1598	1520	1600	1493	1577	1588
Reordering of NBOs for storage:	1546	1522	1548	1572	1571	1578	1607	1516	1536	1587
Reordering of NBOs for storage:	1599	1510	1596	1579	1574	1514	1605	1465	1592	1513
Reordering of NBOs for storage:	1562	1585	1568	1515	1494	1609	1590	1502	1594	1455
Reordering of NBOs for storage:	1584	1604	1489	1566	1482	1483	1608	1586	1460	1554
Reordering of NBOs for storage:	1533	1530	1567	1477	1535	1601	1474	1470	1468	1559
Reordering of NBOs for storage:	1561	1507	1589	1509	1597	1475	1606	1472	1595	1583
Reordering of NBOs for storage:	1593	1602	1488	1486	1504	1556	1471	1565	1591	1603
Reordering of NBOs for storage:	1610	1485	1476	1523	1524	1456	1498	1497	1461	1457
Reordering of NBOs for storage:	1526	1534	1508	1560	1464	1491	1552	1458	1529	1500
Reordering of NBOs for storage:	1531	1484	1469	1555	1466	1557	1505	1503	1480	1453
Reordering of NBOs for storage:	1549	1550	1479	843	298	312	829	564	550	704
Reordering of NBOs for storage:	231	690	478	1438	1128	1143	1168	1118	1153	1103
Reordering of NBOs for storage:	464	1113	1258	1158	1318	1333	394	380	410	521
Reordering of NBOs for storage:	1348	1423	1243	1303	1273	1213	1308	1198	243	326
Reordering of NBOs for storage:	1228	1288	676	1208	857	1393	647	451	814	1188
Reordering of NBOs for storage:	1363	269	1408	507	1283	1253	744	1178	1353	1203
Reordering of NBOs for storage:	1009	1418	632	939	787	718	241	911	1368	256
Reordering of NBOs for storage:	577	940	745	1433	772	1238	1067	1378	366	1193
Reordering of NBOs for storage:	1079	912	424	633	801	1025	1388	1183	493	1403
Reordering of NBOs for storage:	536	1338	1323	997	1037	535	1010	240	1080	338
Reordering of NBOs for storage:	1398	1052	1278	773	1173	1039	1383	662	1443	604
Reordering of NBOs for storage:	1428	967	425	605	884	1358	1263	1051	1218	230
Reordering of NBOs for storage:	883	284	815	1024	968	1328	1248	983	1038	1448

Reordering of NBOs for storage:	1313	1298	675	1066	661	996	1023	995	981	1065
Reordering of NBOs for storage:	452	283	522	982	1293	899	1373	927	508	1268
Reordering of NBOs for storage:	325	858	663	719	802	226	591	285	1233	634
Reordering of NBOs for storage:	620	941	494	913	257	732	746	953	869	453
Reordering of NBOs for storage:	800	523	557	578	396	340	382	871	777	590
Reordering of NBOs for storage:	356	1081	749	495	368	1413	703	255	480	648
Reordering of NBOs for storage:	774	369	1040	563	579	885	835	760	1101	1141
Reordering of NBOs for storage:	297	842	954	758	1011	730	466	897	618	717
Reordering of NBOs for storage:	1123	925	637	1136	1223	1163	870	1053	409	1110
Reordering of NBOs for storage:	969	1054	606	856	397	481	270	830	1096	467
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Reordering of NBOs for storage:	310	383	311	549	696	1125	411	984	548	691
Reordering of NBOs for storage:	1108	1165	930	426	437	944	1343	242	506	1082
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Reordering of NBOs for storage:	1072	607	450	543	850	611	837	319	483	810
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Reordering of NBOs for storage:	1027	619	695	555	359	293	775	866	387	1069
Reordering of NBOs for storage:	665	1356	1013	641	355	792	915	1256	1436	974
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Reordering of NBOs for storage:	1251	793	570	1001	762	874	1164	734	1286	1094
Reordering of NBOs for storage:	958	1083	1109	848	1149	1281	1124	1311	595	443
Reordering of NBOs for storage:	1431	671	422	541	1236	1271	747	942	558	1139
Reordering of NBOs for storage:	531	313	1170	1130	441	352	304	1099	914	653
Reordering of NBOs for storage:	544	1058	635	1134	509	1056	804	1451	1155	1416
Reordering of NBOs for storage:	513	1306	1041	1376	354	1426	1411	1246	1115	1276
Reordering of NBOs for storage:	1231	622	574	1351	1366	737	525	236	1341	276
Reordering of NBOs for storage:	710	1241	629	1421	1391	1269	1301	336	901	275
Reordering of NBOs for storage:	713	1044	1371	1014	587	1449	1221	720	770	852
Reordering of NBOs for storage:	820	554	847	582	790	417	331	468	515	851
Reordering of NBOs for storage:	909	1045	482	1401	1216	288	1290	985	1000	624
Reordering of NBOs for storage:	258	1389	694	1396	552	929	1324	1326	714	765
Reordering of NBOs for storage:	302	234	943	819	1240	1299	229	1380	681	722
Reordering of NBOs for storage:	384	1098	1138	860	398	685	1370	330	447	934
Reordering of NBOs for storage:	524	1070	920	861	766	1304	932	1414	287	890
Reordering of NBOs for storage:	1381	1399	1429	1314	1249	1215	1160	476	512	1315
Reordering of NBOs for storage:	1420	1093	1219	1336	1133	803	1359	1244	1279	1289
Reordering of NBOs for storage:	1250	794	1335	1235	1285	1349	1360	1435	986	1055
Reordering of NBOs for storage:	1406	1274	1220	1430	1320	1355	1260	1305	1415	709
Reordering of NBOs for storage:	1234	1280	692	1104	1395	873	1424	322	711	316
Reordering of NBOs for storage:	1350	1245	1275	900	1339	1364	436	651	306	957
Reordering of NBOs for storage:	636	1425	1239	1374	761	1309	1229	1440	412	581
Reordering of NBOs for storage:	1375	1446	889	580	560	1409	277	1254	335	849
Reordering of NBOs for storage:	1369	1419	1259	1379	780	666	723	601	402	1400
Reordering of NBOs for storage:	1441	999	307	701	667	1346	568	805	1319	859
Reordering of NBOs for storage:	1439	598	678	1334	1386	1230	1224	488	1340	863
Reordering of NBOs for storage:	1295	904	627	959	428	621	791	1445	733	862
Reordering of NBOs for storage:	664	1344	1321	807	1365	566	1225	538	1410	1261
Reordering of NBOs for storage:	1266	1028	834	721	1310	289	1120	895	991	300
Reordering of NBOs for storage:	389	1450	928	1265	290	845	583	650	950	1394
Reordering of NBOs for storage:	328	1214	977	286	706	540	817	831	1385	1331
Reordering of NBOs for storage:	1291	1270	527	545	1255	363	764	668	1175	1296
Reordering of NBOs for storage:	1226	1195	776	652	1390	781	1210	358	1330	272
Reordering of NBOs for storage:	429	879	490	1300	514	1434	887	1354	1284	1144
Reordering of NBOs for storage:	274	614	1100	528	473	526	876	260	1205	907
Reordering of NBOs for storage:	1050	262	1145	906	806	596	1404	1325	1185	233
Reordering of NBOs for storage:	767	390	573	839	654	610	964	973	922	487
Reordering of NBOs for storage:	406	475	404	724	584	510	1405	597	1095	1200
Reordering of NBOs for storage:	1140	608	625	1135	1181	615	896	840	963	600
Reordering of NBOs for storage:	1018	935	796	877	273	261	279	918	628	903
Reordering of NBOs for storage:	1131	945	303	1190	1126	1166	1121	1116	684	1171
Reordering of NBOs for storage:	1106	1151	1156	1146	931	682	571	1191	750	1016
Reordering of NBOs for storage:	517	511	1111	586	736	1022	1161	626	1004	923
Reordering of NBOs for storage:	1119	784	1007	824	643	970	1180	227	1201	561

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"TIGER, TIGER BURNING BRIGHT
IN THE FOREST OF THE NIGHT.
WHAT IMMORTAL HAND OR EYE
CAN FRAME THY FEARFUL SYMMETRY?"

- WILLIAM BLAKE

Job cpu time: 1 days 9 hours 17 minutes 12.0 seconds.

File lengths (MBytes): RWF= 1383 Int= 0 D2E= 0 Chk= 90 Scr= 1

Normal termination of Gaussian 09 at Sun Jun 14 03:36:36 2015.