

Catalytic enantioselective synthesis of cyclopropanes featuring vicinal all-carbon quaternary stereocenters with a CH₂F group; study of influence of C-F...H-N interactions on reactivity

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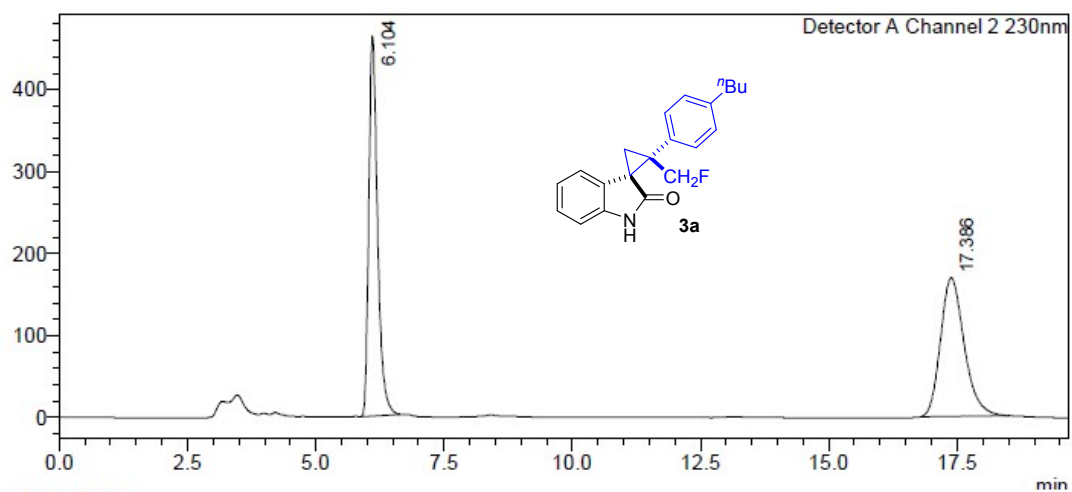
[‡]*These authors contributed equally to this article.*

Supporting Information (Part C)

HPLC Spectra of **3a-3q**, **4**, **7a-7e**

2-24

mV

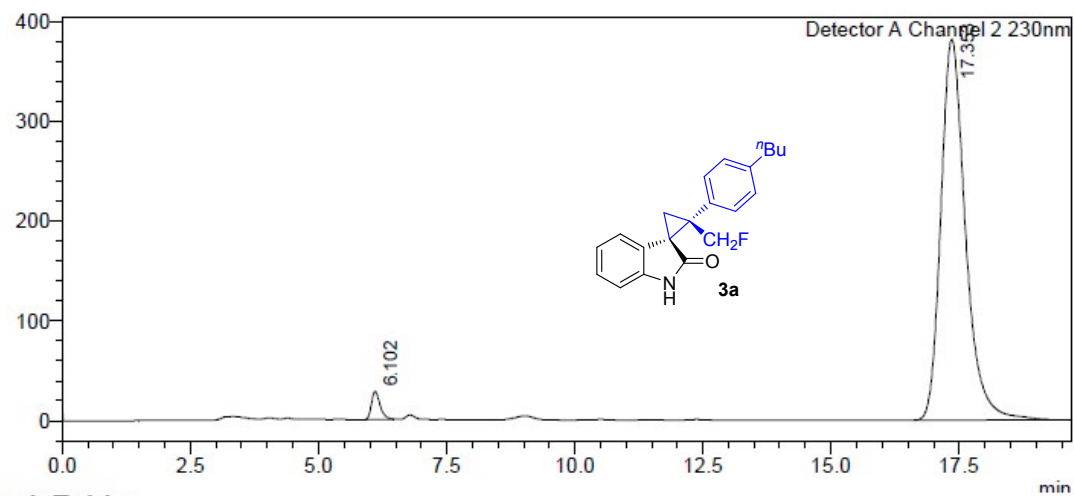


<Peak Table>

Detector A Channel 2 230nm

Peak#	Ret. Time	Area	Height	Conc.
1	6.104	5495656	462941	50.178
2	17.386	5456738	169329	49.822
Total		10952394	632270	

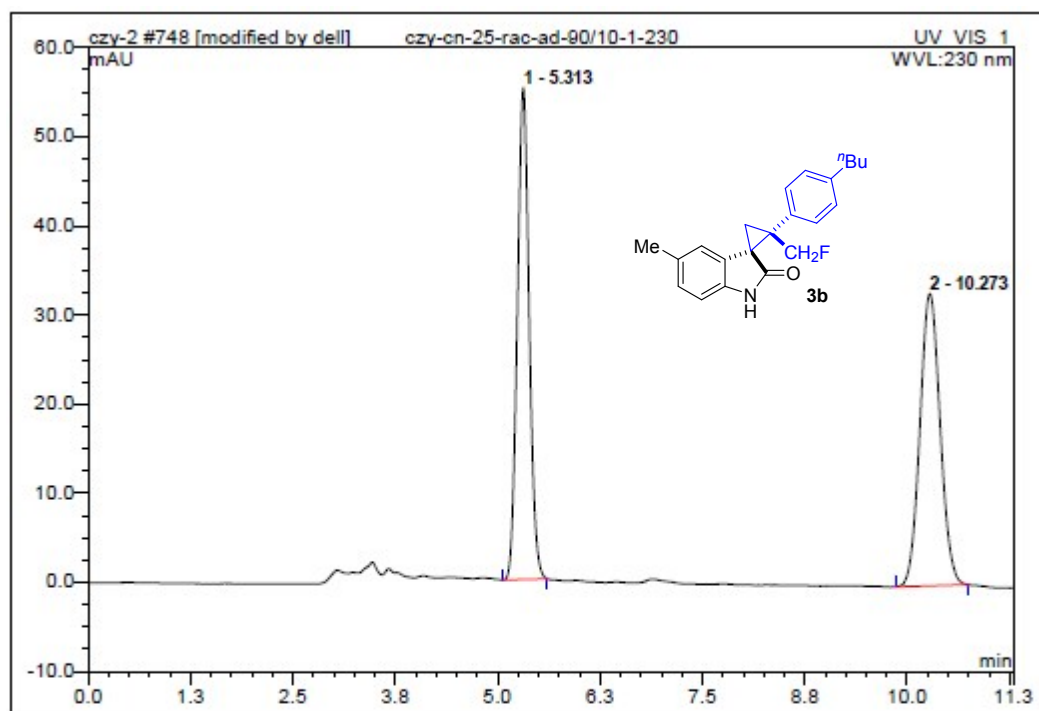
mV



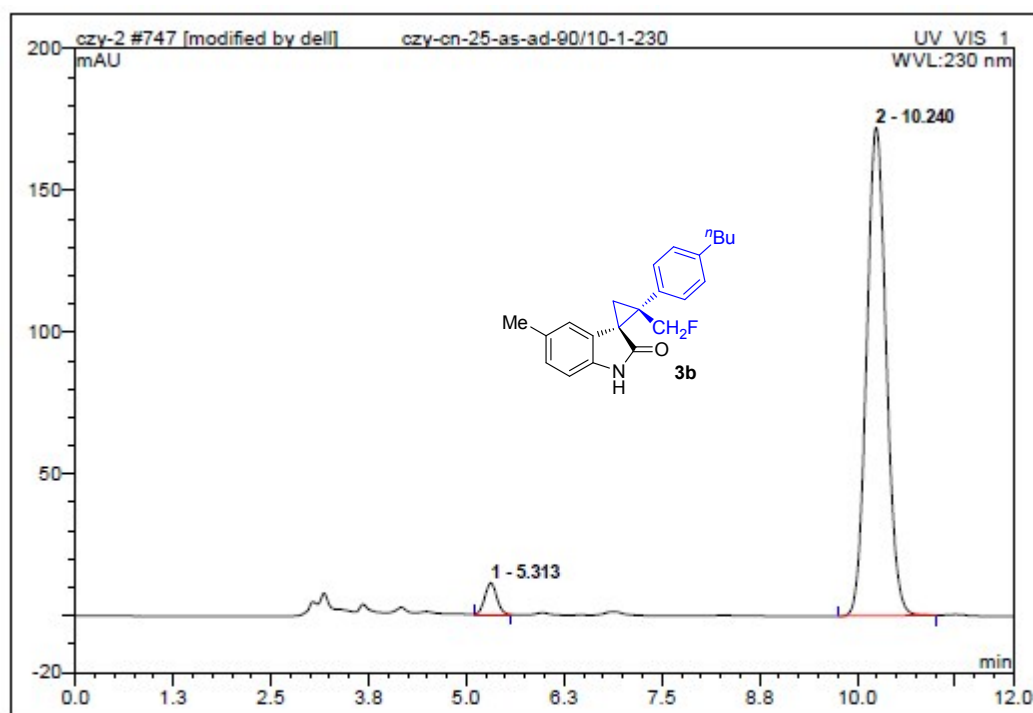
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Detector A Channel 2 230nm

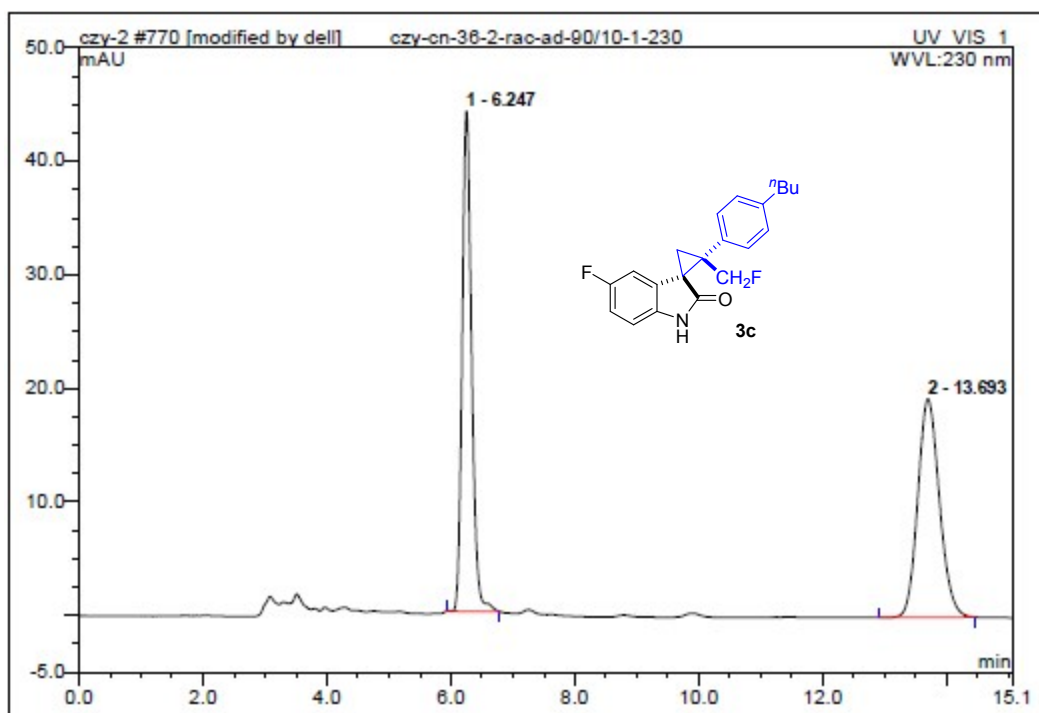
Peak#	Ret. Time	Area	Height	Conc.
1	6.102	330650	28242	2.531
2	17.353	12733773	381299	97.469
Total		13064424	409541	



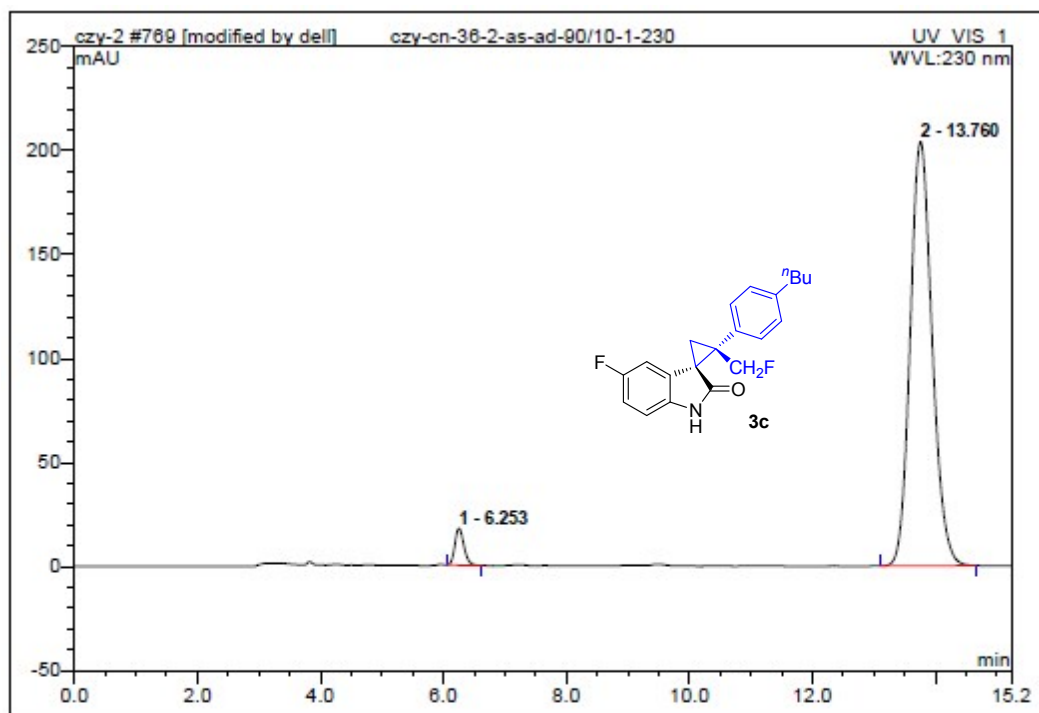
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	5.31	n.a.	55.186	9.338	50.08	n.a.	BMB*
2	10.27	n.a.	32.781	9.308	49.92	n.a.	BMB*
Total:			87.967	18.646	100.00	0.000	



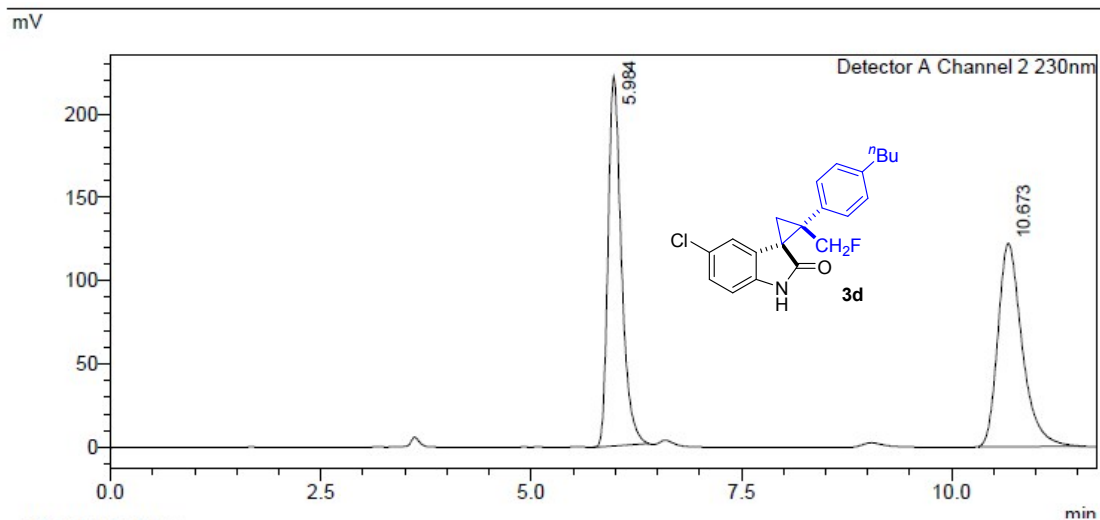
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	5.31	n.a.	11.098	1.949	3.75	n.a.	BMB*
2	10.24	n.a.	172.297	49.980	96.25	n.a.	BMB
Total:			183.395	51.929	100.00	0.000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	6.25	n.a.	44.023	7.779	50.01	n.a.	BMB*
2	13.69	n.a.	19.237	7.777	49.99	n.a.	BMB*
Total:			63.260	15.555	100.00	0.000	



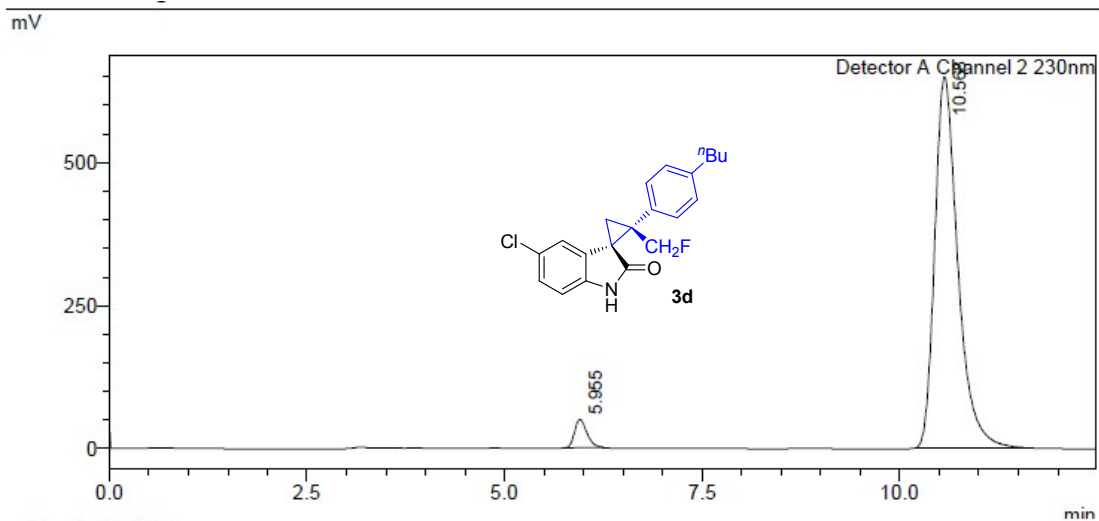
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	6.25	n.a.	17.795	3.048	3.50	n.a.	BMB*
2	13.76	n.a.	203.964	84.115	96.50	n.a.	BMB*
Total:			221.759	87.164	100.00	0.000	



<Peak Table>

Detector A Channel 2 230nm

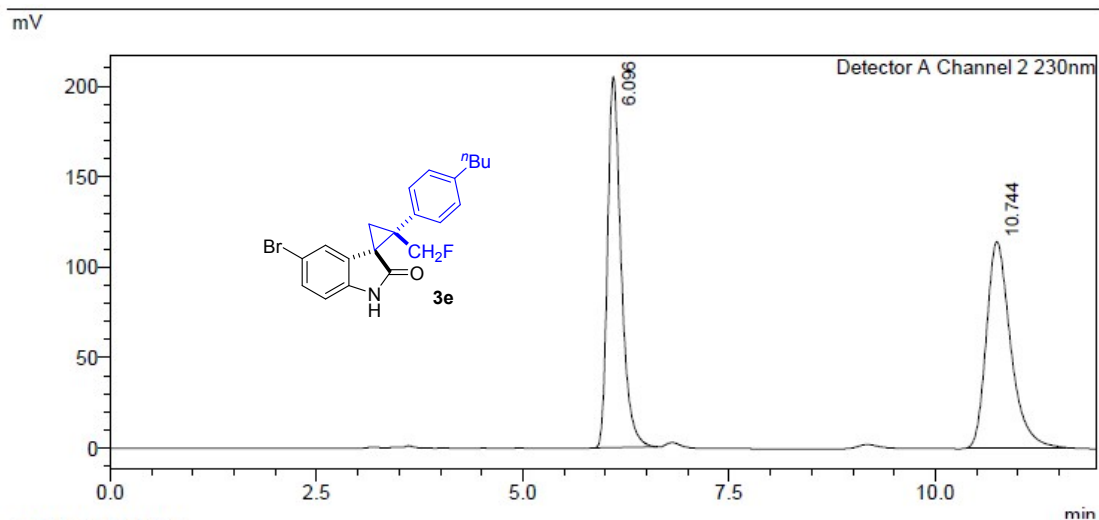
Peak#	Ret. Time	Area	Height	Conc.
1	5.984	2446844	221650	49.973
2	10.673	2449534	121862	50.027
Total		4896378	343512	



<Peak Table>

Detector A Channel 2 230nm

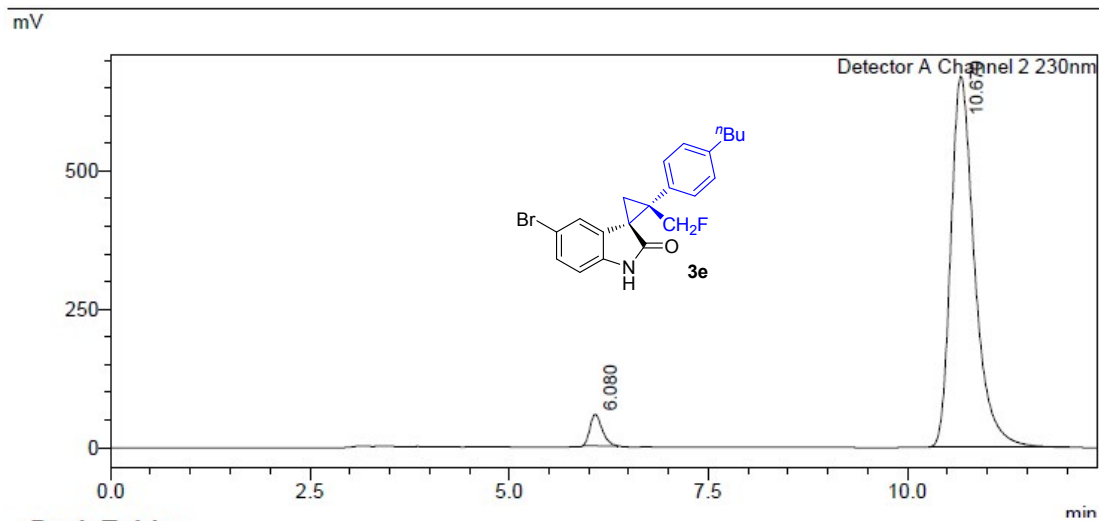
Peak#	Ret. Time	Area	Height	Conc.
1	5.955	528084	49341	3.839
2	10.568	13228540	649056	96.161
Total		13756624	698398	



<Peak Table>

Detector A Channel 2 230nm

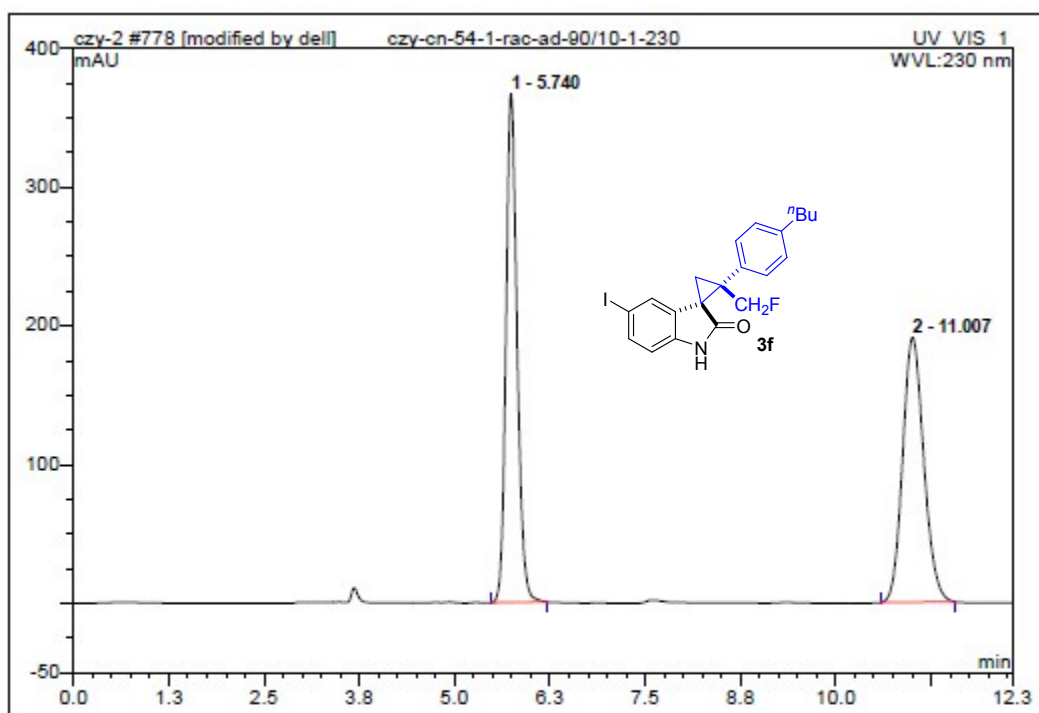
Peak#	Ret. Time	Area	Height	Conc.
1	6.096	2348716	204872	50.383
2	10.744	2312961	113809	49.617
Total		4661677	318681	



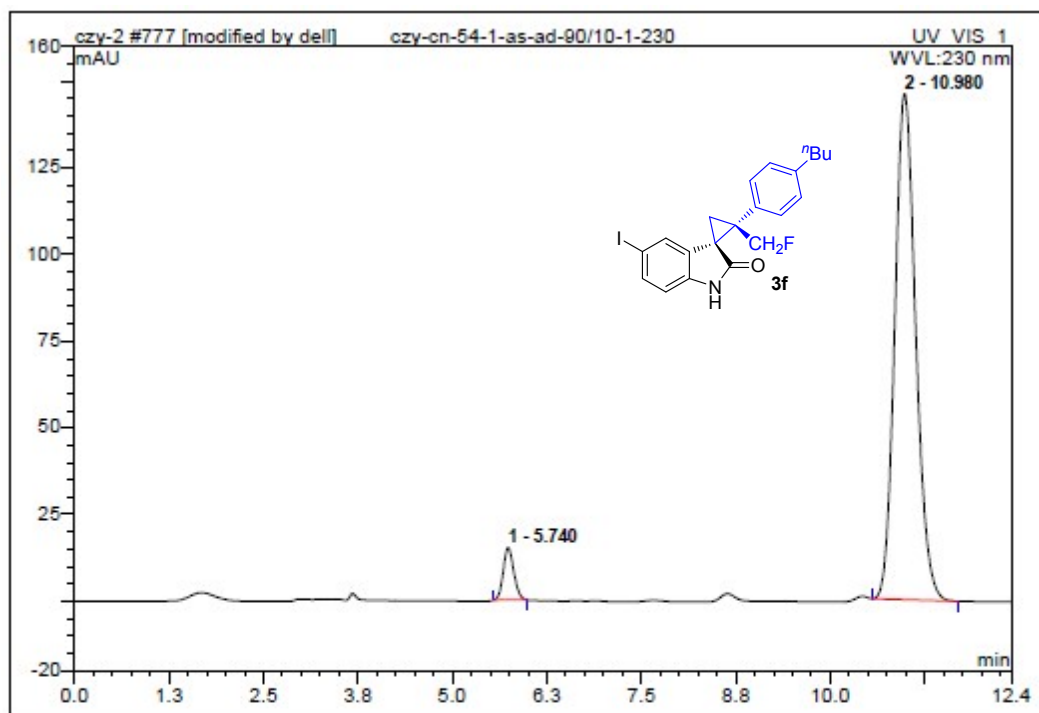
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Detector A Channel 2 230nm

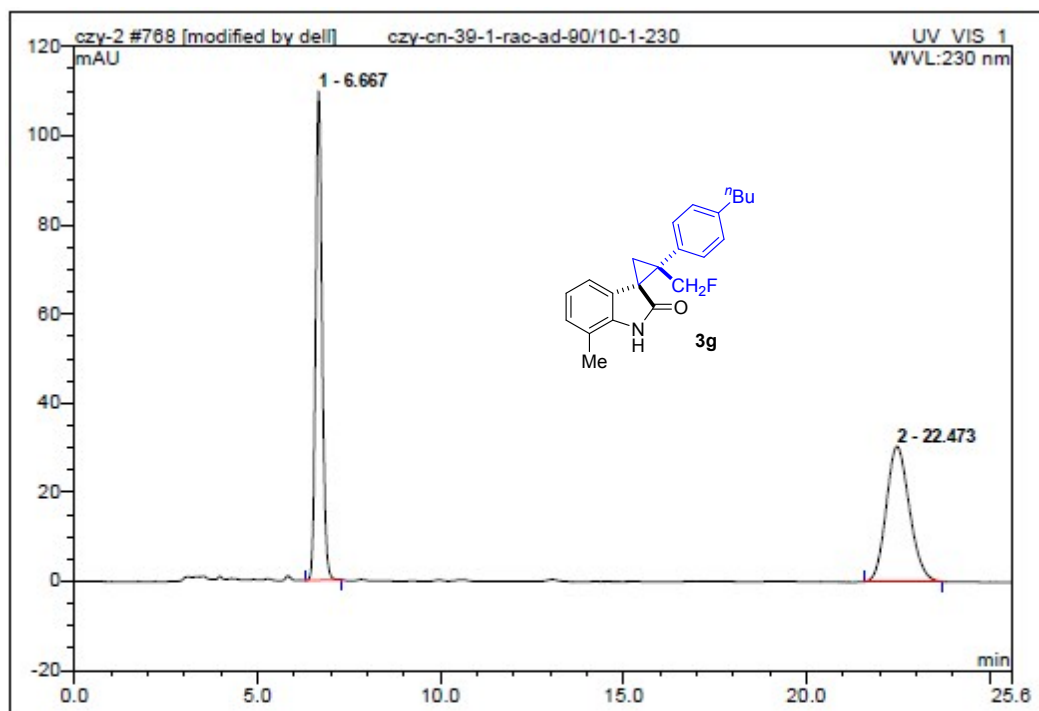
Peak#	Ret. Time	Area	Height	Conc.
1	6.080	604291	56852	4.156
2	10.670	13937296	670244	95.844
Total		14541587	727096	



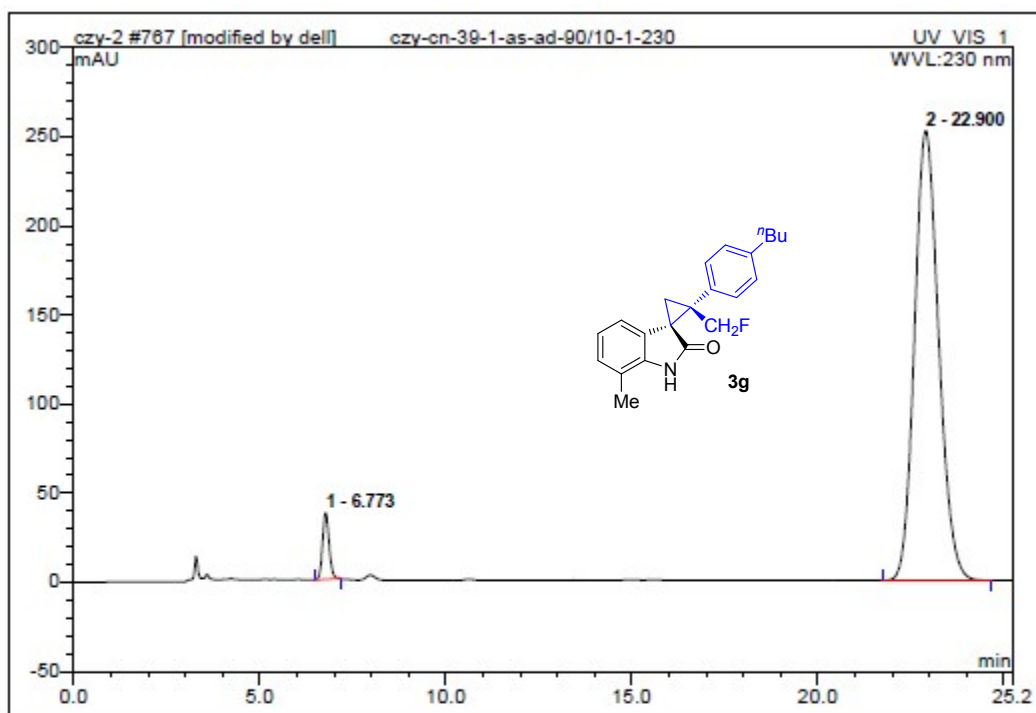
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	5.74	n.a.	367.062	62.039	50.26	n.a.	BMB*
2	11.01	n.a.	191.108	61.385	49.74	n.a.	BMB*
Total:			558.170	123.424	100.00	0.000	



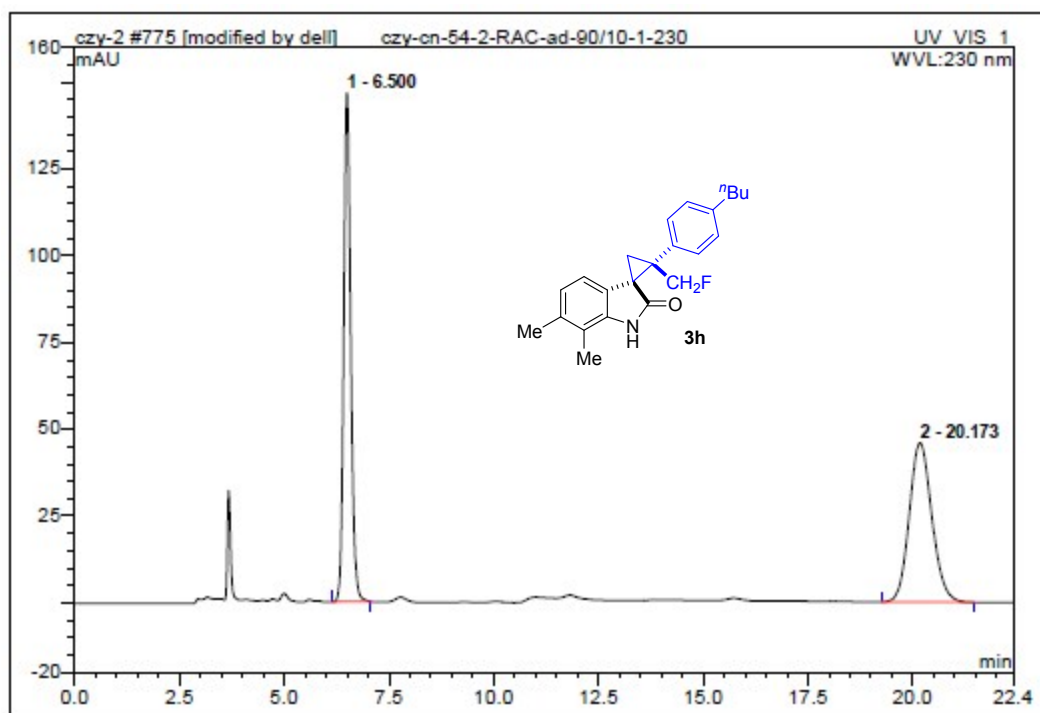
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	5.74	n.a.	15.134	2.464	5.01	n.a.	BMB*
2	10.98	n.a.	145.972	46.738	94.99	n.a.	BMB
Total:			161.106	49.201	100.00	0.000	



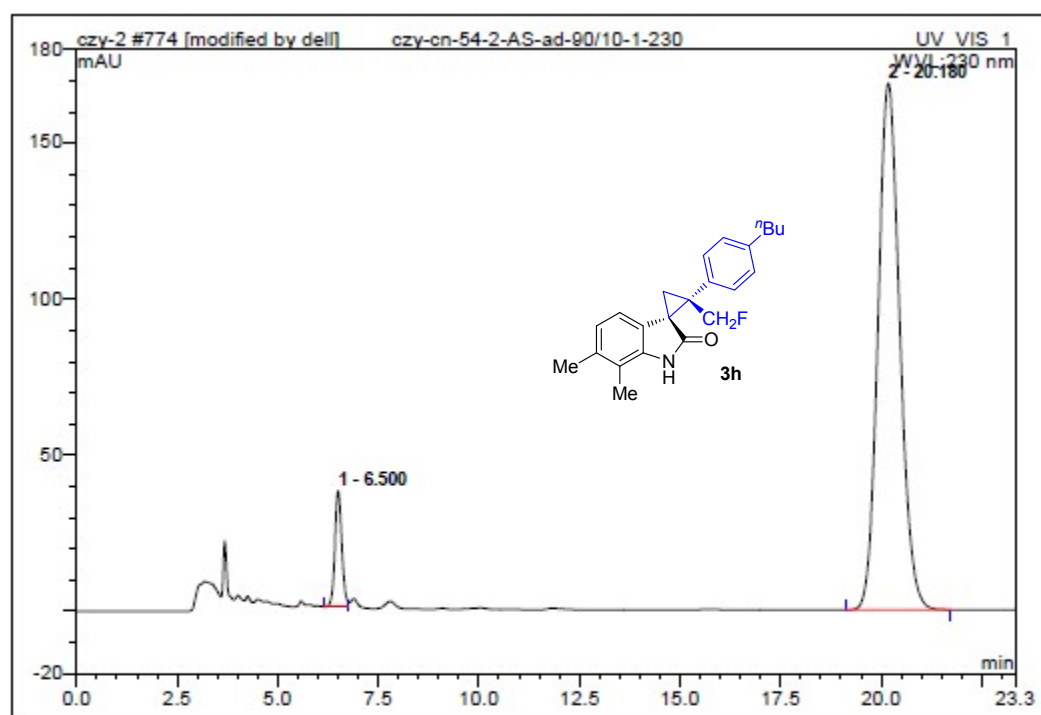
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	6.67	n.a.	109.745	22.408	50.06	n.a.	BMB*
2	22.47	n.a.	30.355	22.350	49.94	n.a.	BMB*
Total:			140.100	44.758	100.00	0.000	



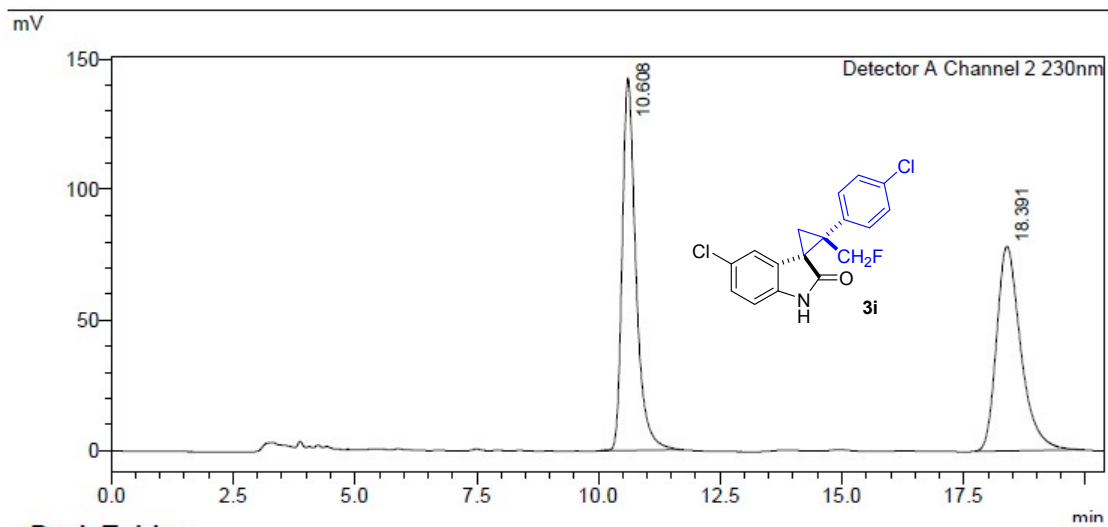
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	6.77	n.a.	37.295	7.650	3.87	n.a.	BMB*
2	22.90	n.a.	252.284	189.860	96.13	n.a.	BMB
Total:			289.578	197.510	100.00	0.000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	6.50	n.a.	146.738	28.779	50.06	n.a.	BMB*
2	20.17	n.a.	45.904	28.715	49.94	n.a.	BMB
Total:			192.642	57.493	100.00	0.000	



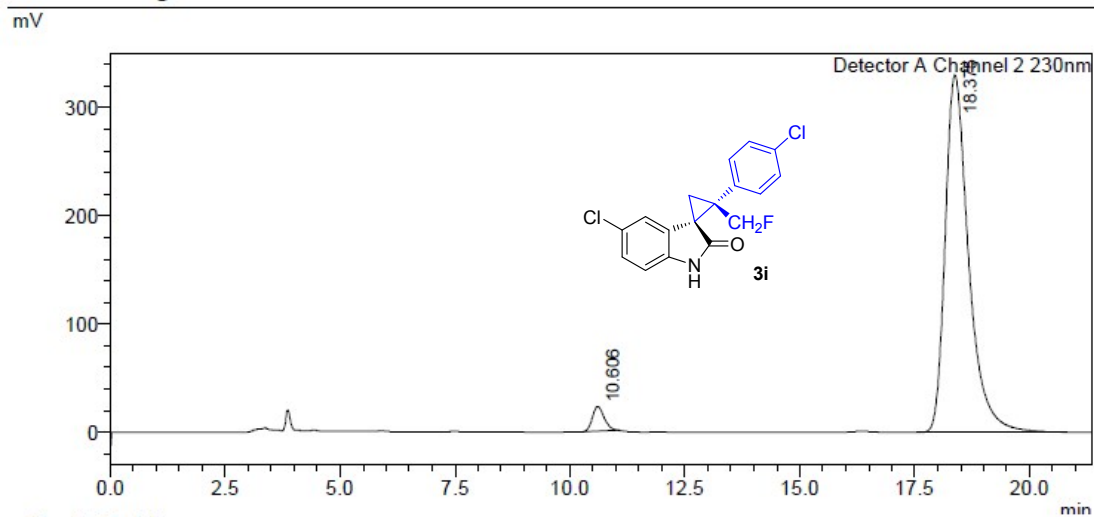
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	6.50	n.a.	37.276	7.396	6.53	n.a.	BM *
2	20.18	n.a.	168.869	105.925	93.47	n.a.	BMB
Total:			206.145	113.321	100.00	0.000	



<Peak Table>

Detector A Channel 2 230nm

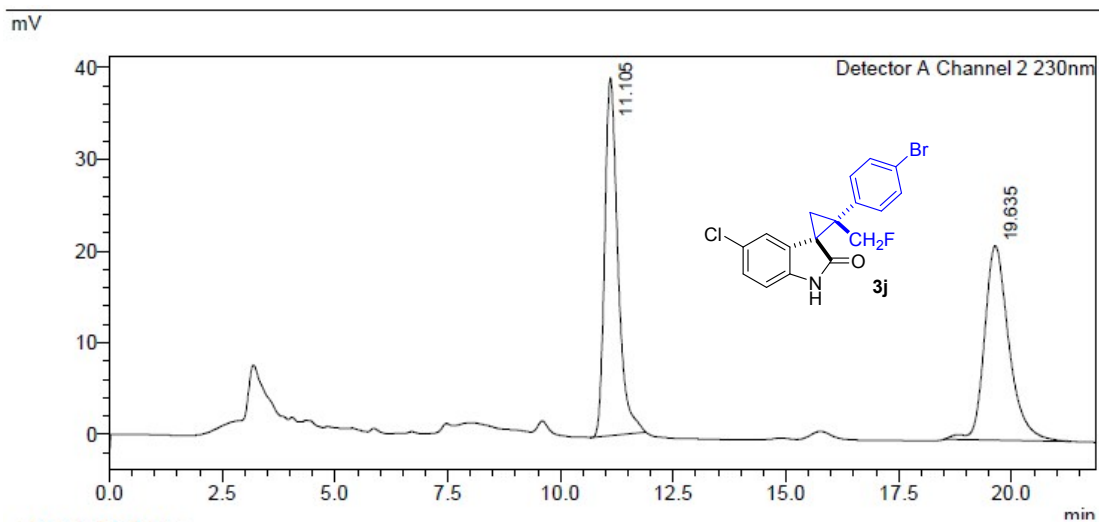
Peak#	Ret. Time	Area	Height	Conc.
1	10.608	2789945	142437	50.700
2	18.391	2712886	78303	49.300
Total		5502831	220740	



<Peak Table>

Detector A Channel 2 230nm

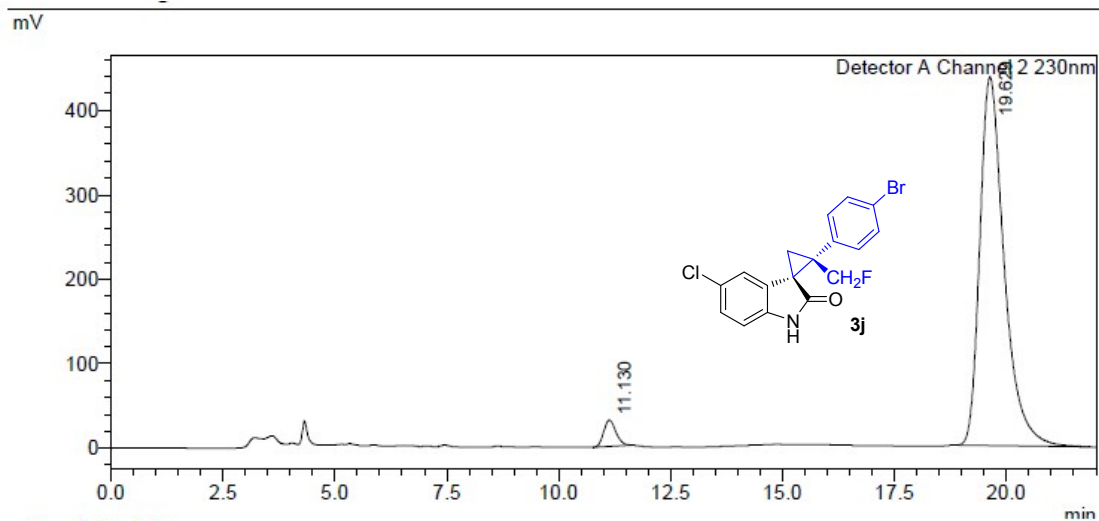
Peak#	Ret. Time	Area	Height	Conc.
1	10.606	409933	22807	3.378
2	18.375	11725839	330208	96.622
Total		12135772	353015	



<Peak Table>

Detector A Channel 2 230nm

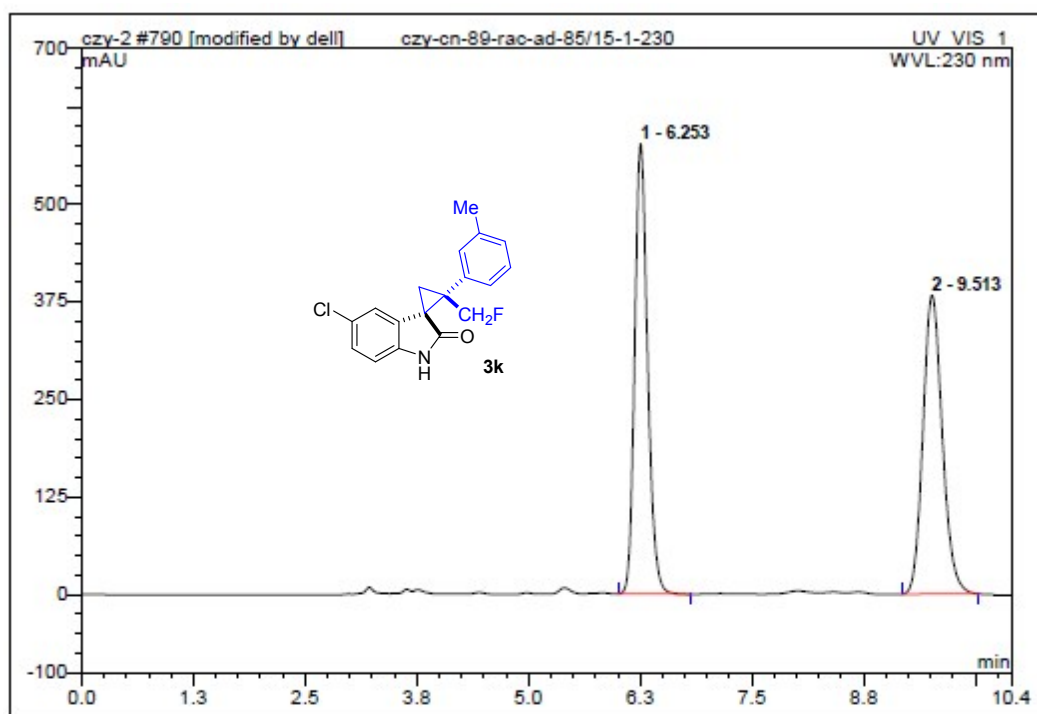
Peak#	Ret. Time	Area	Height	Conc.
1	11.105	793048	38998	49.694
2	19.635	802806	21210	50.306
Total		1595854	60208	



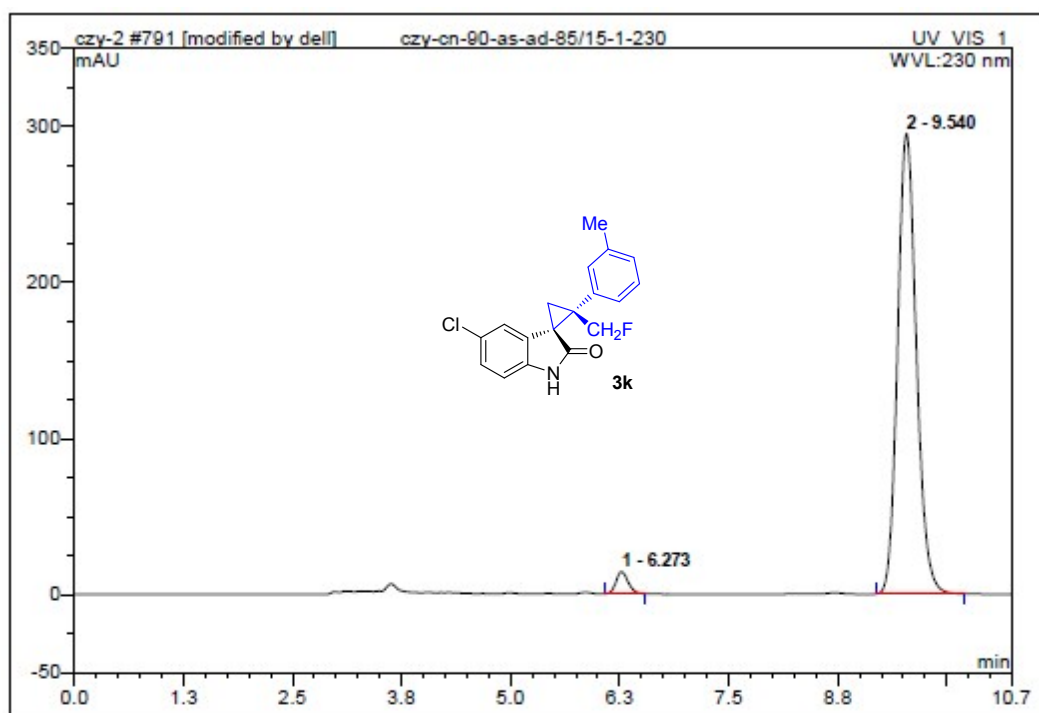
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Detector A Channel 2 230nm

Peak#	Ret. Time	Area	Height	Conc.
1	11.130	587853	31039	3.433
2	19.629	16535245	436535	96.567
Total		17123097	467574	

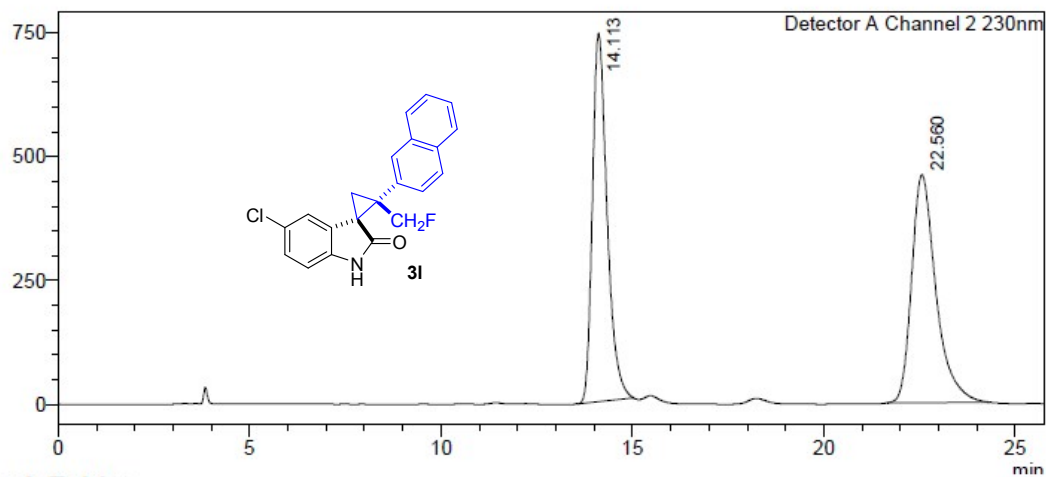


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	6.25	n.a.	577.308	96.362	50.02	n.a.	BMB
2	9.51	n.a.	383.054	96.295	49.98	n.a.	BMB*
Total:			960.363	192.657	100.00	0.000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	6.27	n.a.	14.057	2.273	3.00	n.a.	BMB*
2	9.54	n.a.	295.258	73.603	97.00	n.a.	BMB*
Total:			309.315	75.875	100.00	0.000	

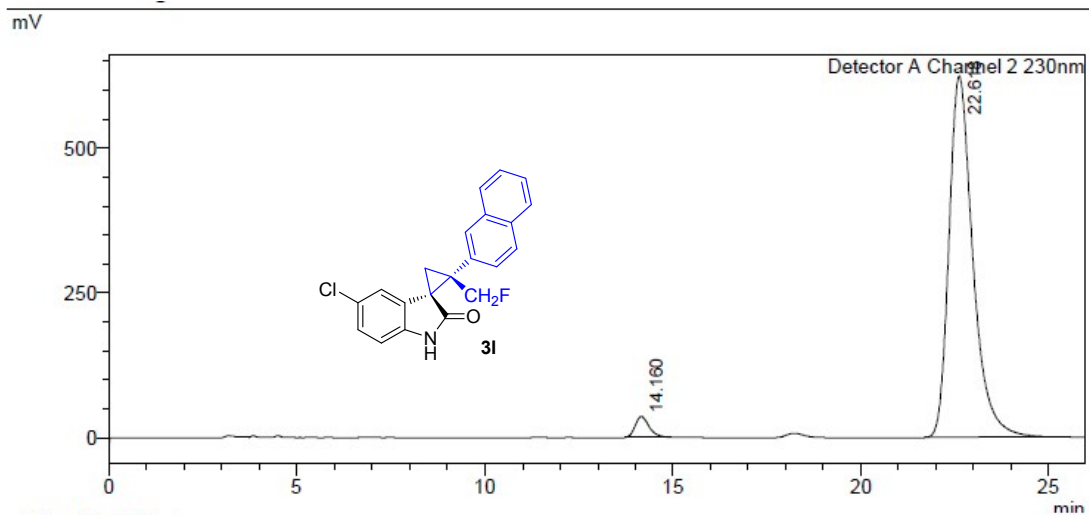
mV



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Detector A Channel 2 230nm

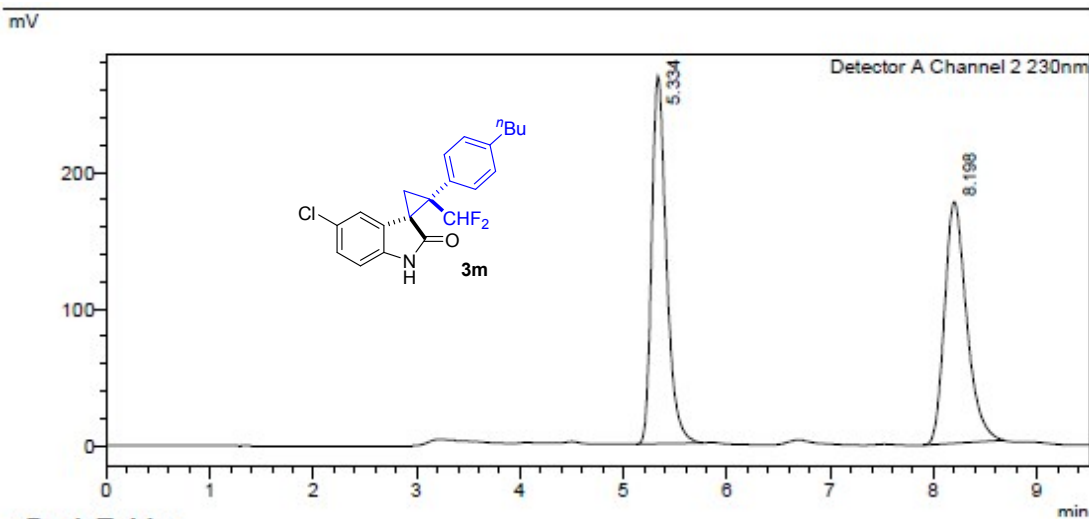
Peak#	Ret. Time	Area	Height	Conc.
1	14.113	19761533	743573	49.249
2	22.560	20364596	460283	50.751
Total		40126130	1203857	



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Detector A Channel 2 230nm

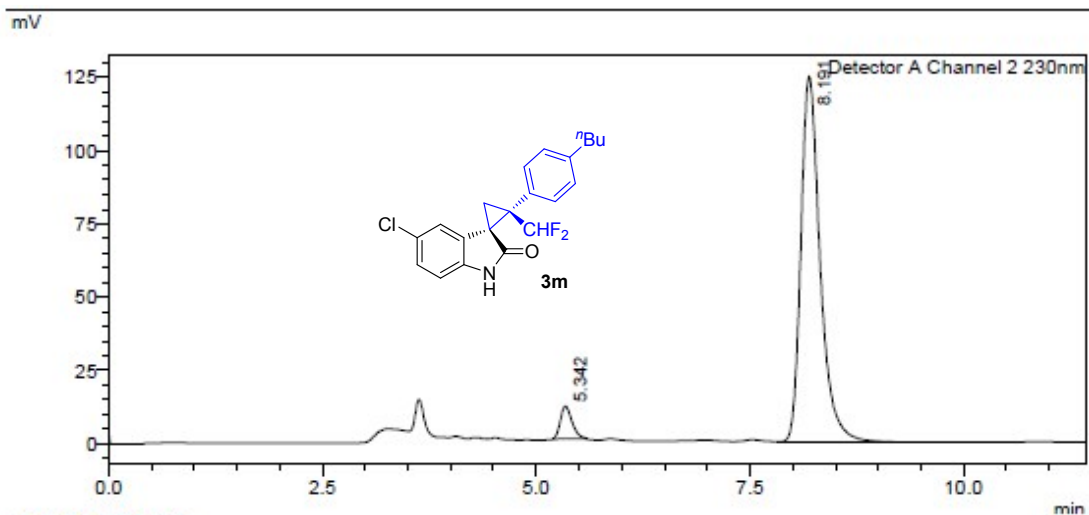
Peak#	Ret. Time	Area	Height	Conc.
1	14.160	932243	36092	3.274
2	22.618	27542764	623832	96.726
Total		28475006	659924	



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Detector A Channel 2 230nm

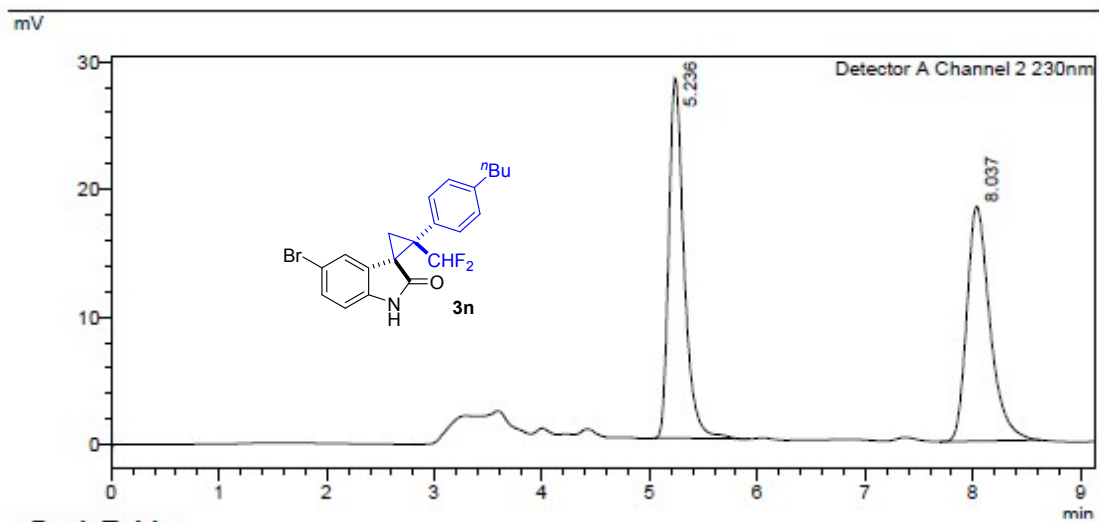
Peak#	Ret. Time	Area	Height	Conc.
1	5.334	2657240	268627	50.318
2	8.198	2623686	176620	49.682
Total		5280926	445248	



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Detector A Channel 2 230nm

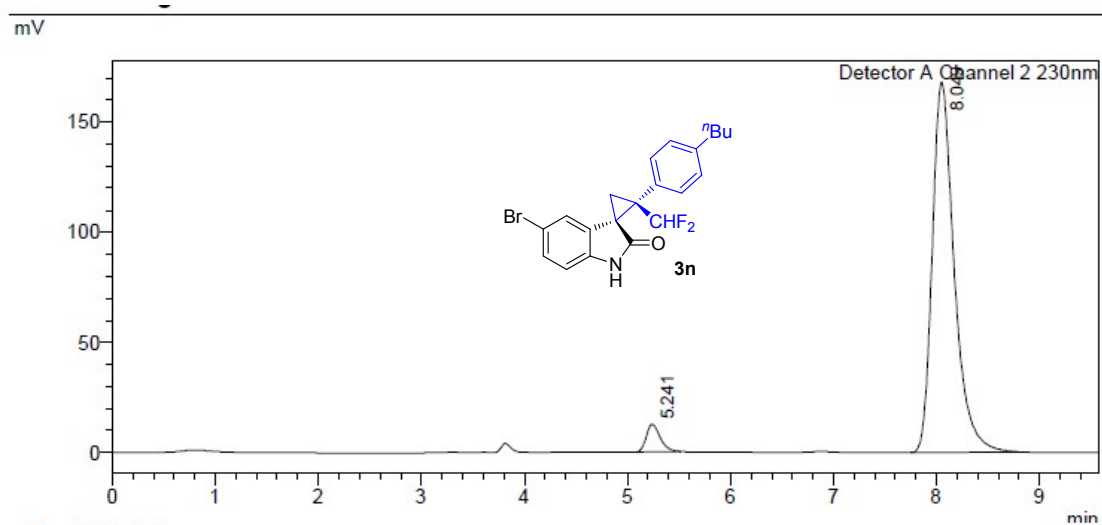
Peak#	Ret. Time	Area	Height	Conc.
1	5.342	104910	11181	5.111
2	8.191	1947901	124518	94.889
Total		2052810	135699	



<Peak Table>

Detector A Channel 2 230nm

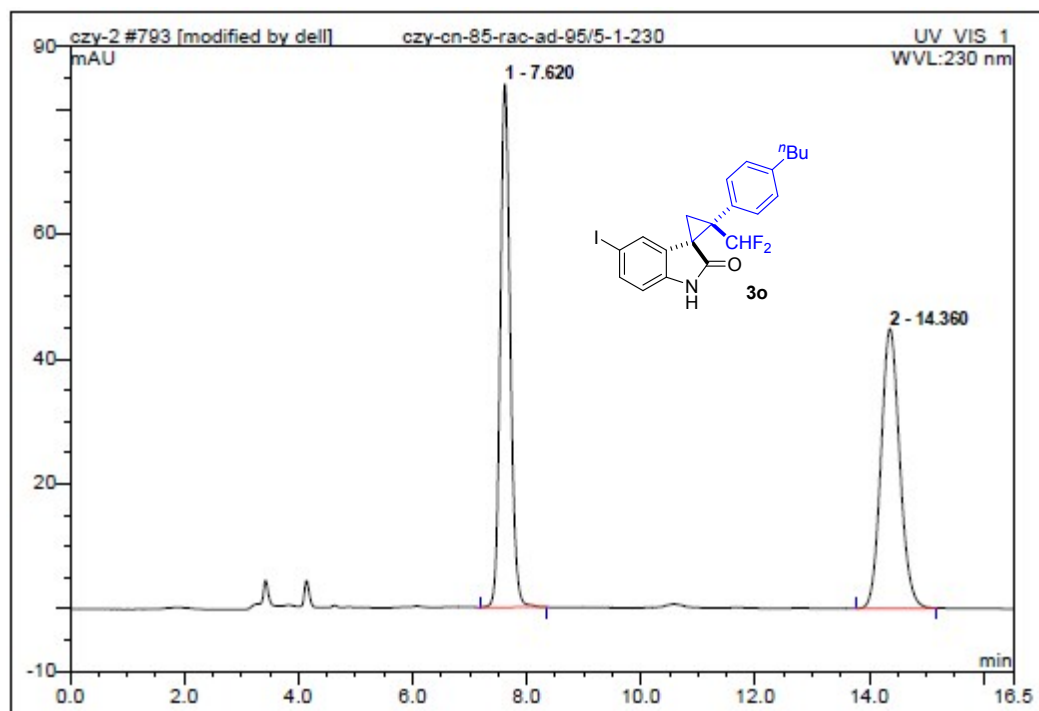
Peak#	Ret. Time	Area	Height	Conc.
1	5.236	277806	28195	50.257
2	8.037	274966	18405	49.743
Total		552771	46599	



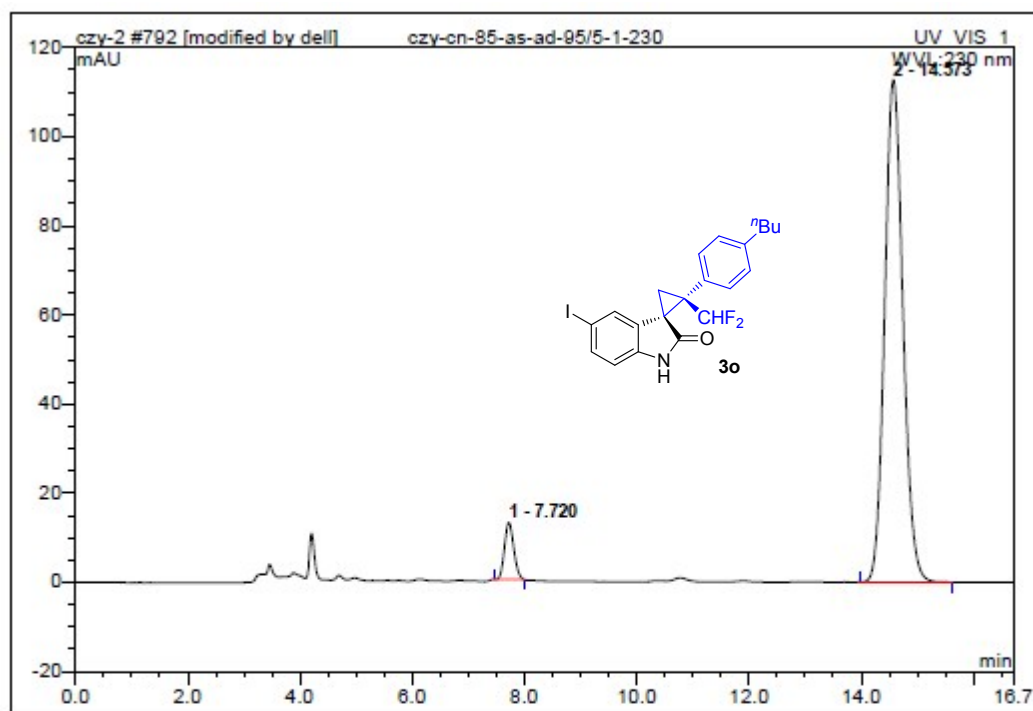
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Detector A Channel 2 230nm

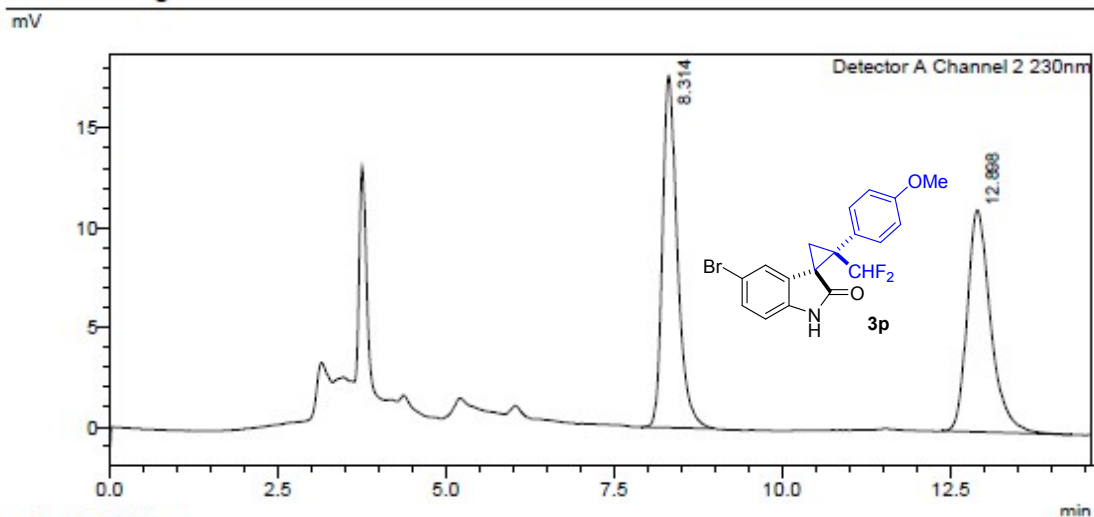
Peak#	Ret. Time	Area	Height	Conc.
1	5.241	117338	12557	4.494
2	8.049	2493588	168168	95.506
Total		2610926	180725	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	7.62	n.a.	83.749	16.967	49.98	n.a.	BMB
2	14.36	n.a.	44.775	16.978	50.02	n.a.	BMB
Total:			128.524	33.946	100.00	0.000	



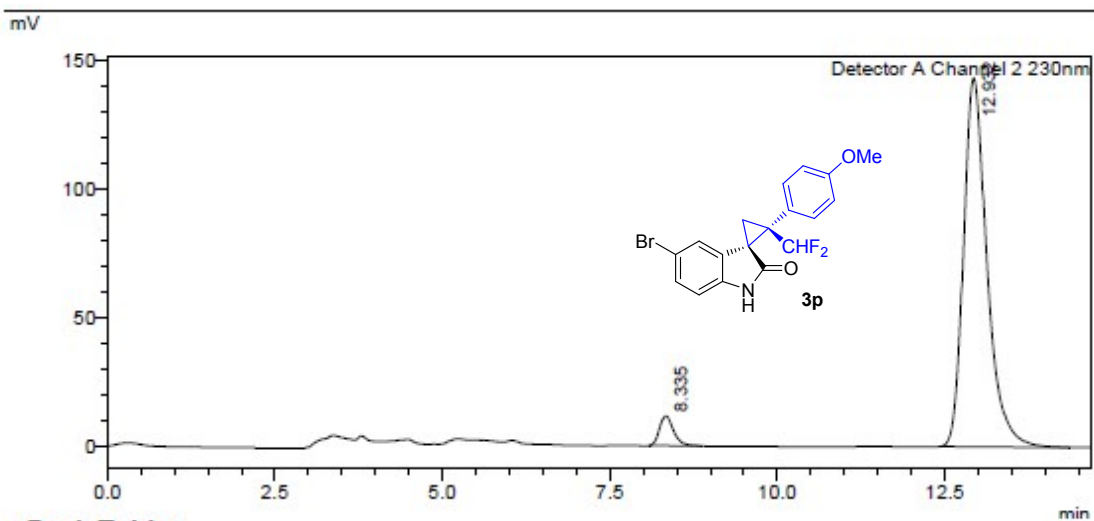
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	7.72	n.a.	12.701	2.436	5.41	n.a.	BMB*
2	14.57	n.a.	112.747	42.608	94.59	n.a.	BMB
Total:			125.448	45.044	100.00	0.000	



<Peak Table>

Detector A Channel 2 230nm

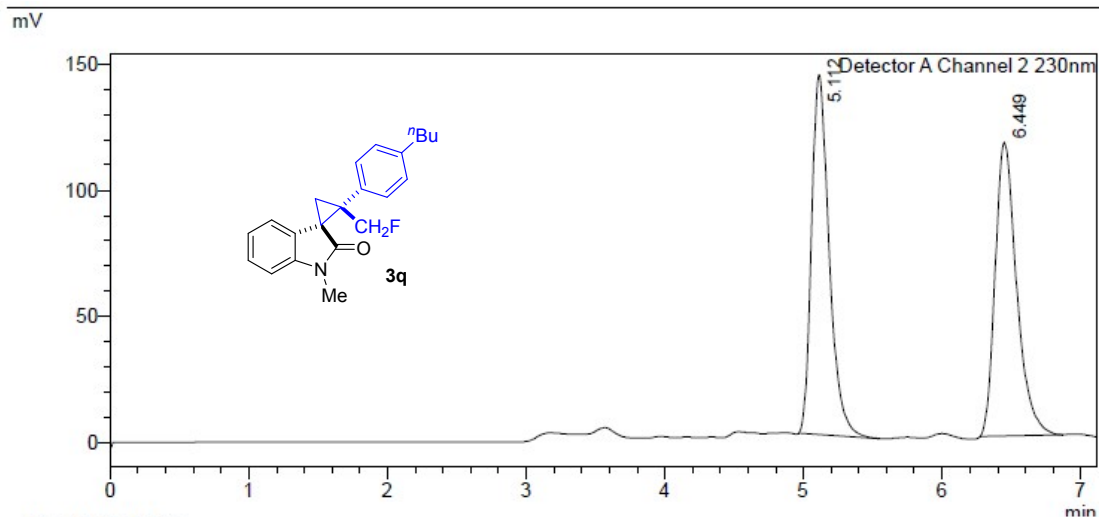
Peak#	Ret. Time	Area	Height	Conc.
1	8.314	272763	17657	50.206
2	12.898	270521	11143	49.794
Total		543284	28800	



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Detector A Channel 2 230nm

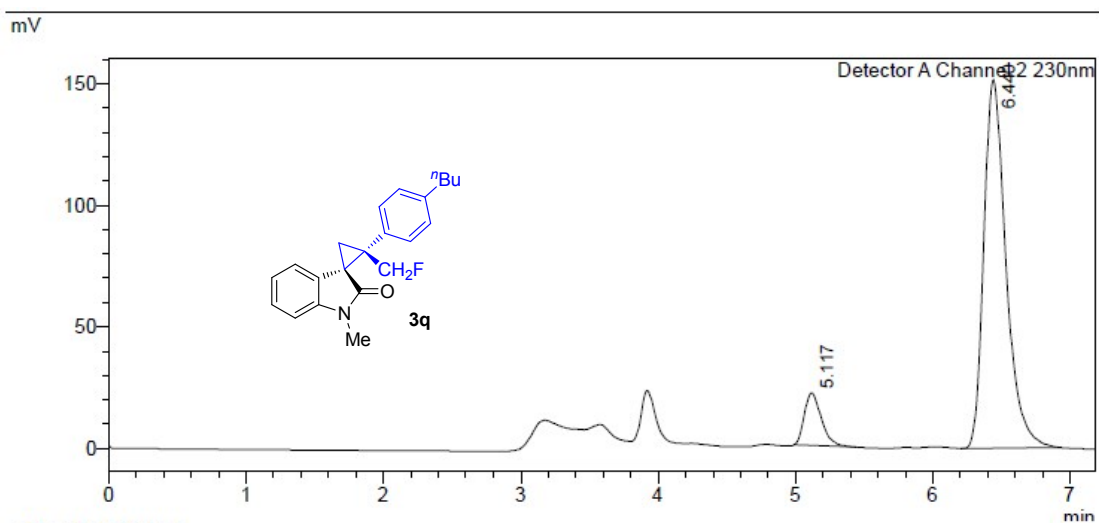
Peak#	Ret. Time	Area	Height	Conc.
1	8.335	169615	11643	4.632
2	12.932	3491875	143421	95.368
Total		3661490	155064	



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Detector A Channel 2 230nm

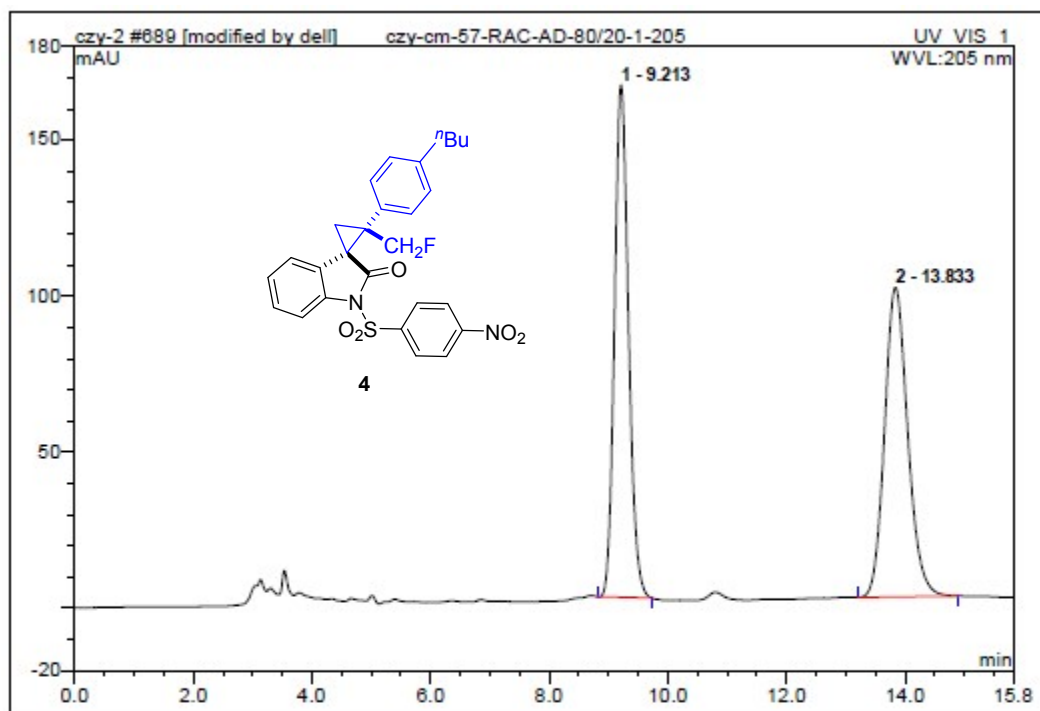
Peak#	Ret. Time	Area	Height	Conc.
1	5.112	1263861	142465	50.131
2	6.449	1257245	116373	49.869
Total		2521106	258838	



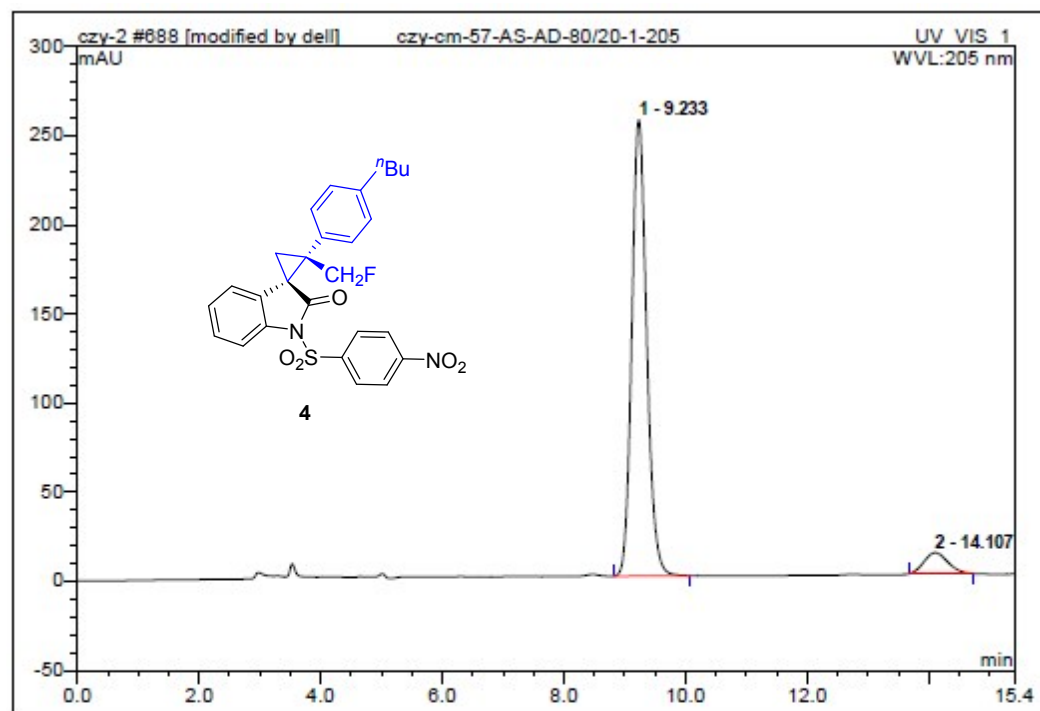
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Detector A Channel 2 230nm

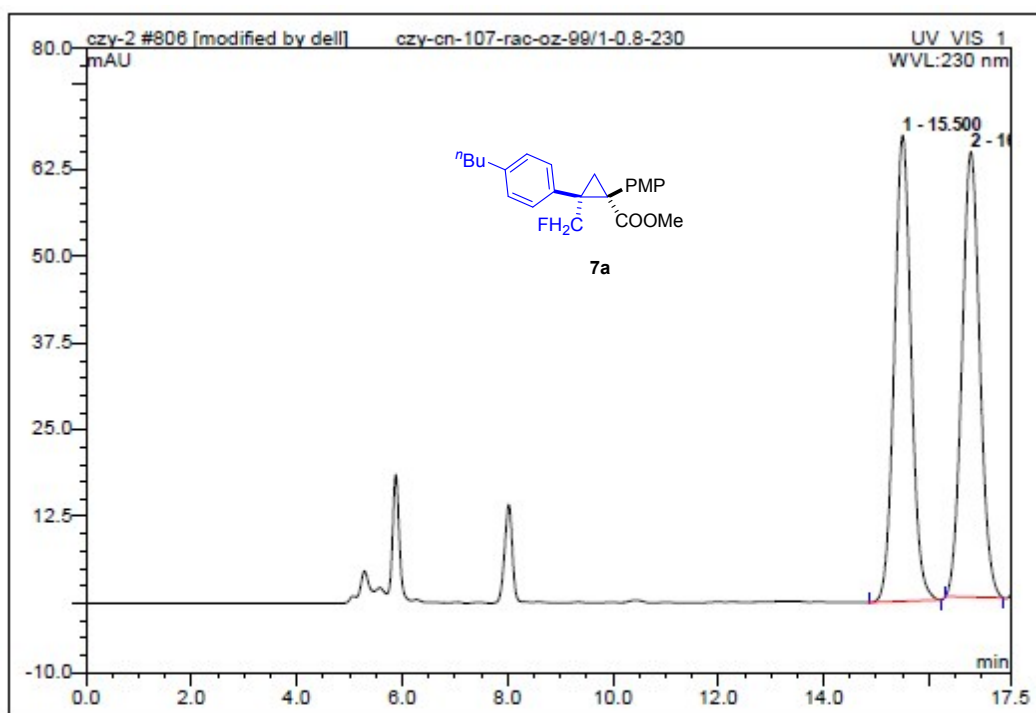
Peak#	Ret. Time	Area	Height	Conc.
1	5.117	186005	21654	9.854
2	6.440	1701615	151449	90.146
Total		1887621	173103	



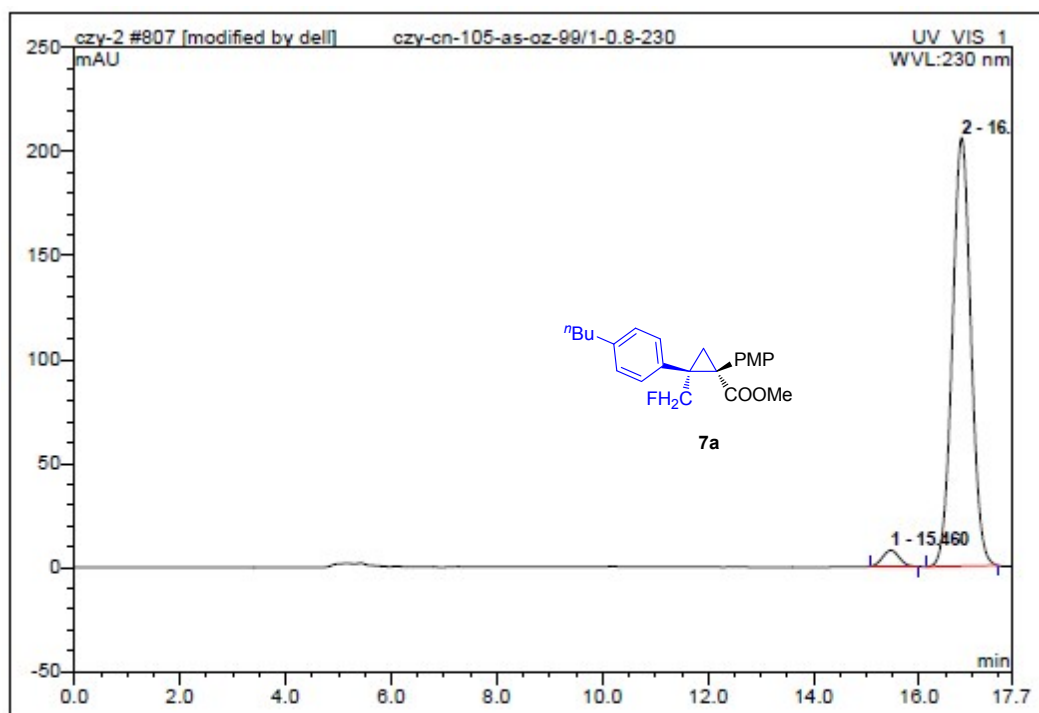
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	9.21	n.a.	164.146	44.934	50.05	n.a.	BMB*
2	13.83	n.a.	99.237	44.838	49.95	n.a.	BMB
Total:			263.384	89.772	100.00	0.000	



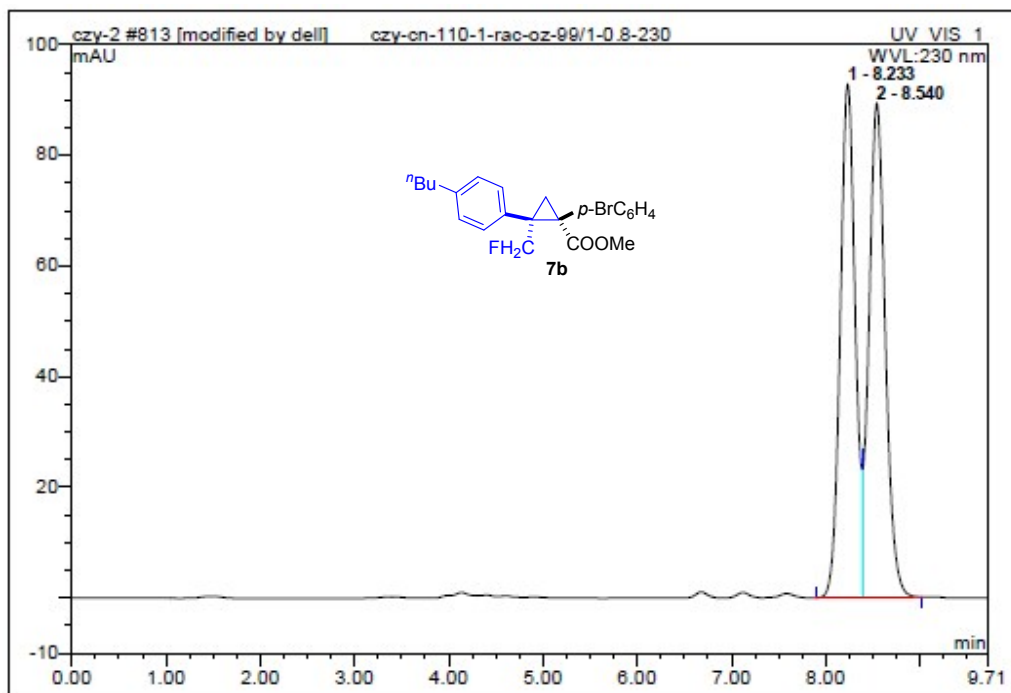
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	9.23	n.a.	255.861	72.528	93.10	n.a.	BMB*
2	14.11	n.a.	11.805	5.376	6.90	n.a.	BMB*
Total:			267.666	77.903	100.00	0.000	



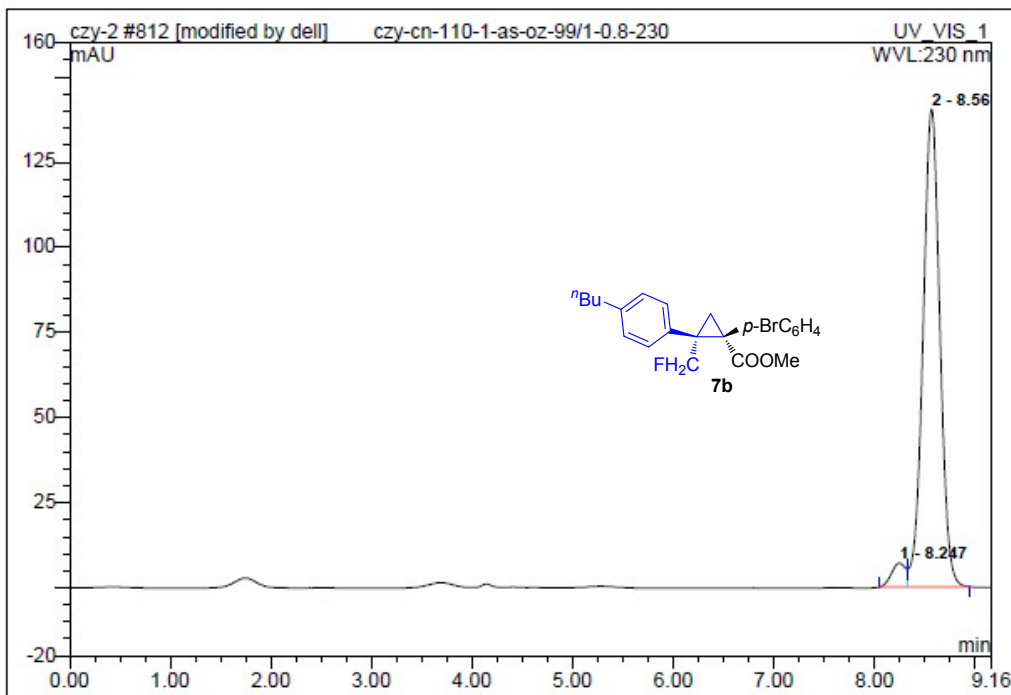
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.50	n.a.	67.219	24.947	49.78	n.a.	BMB*
2	16.79	n.a.	64.185	25.167	50.22	n.a.	BMB*
Total:			131.404	50.114	100.00	0.000	



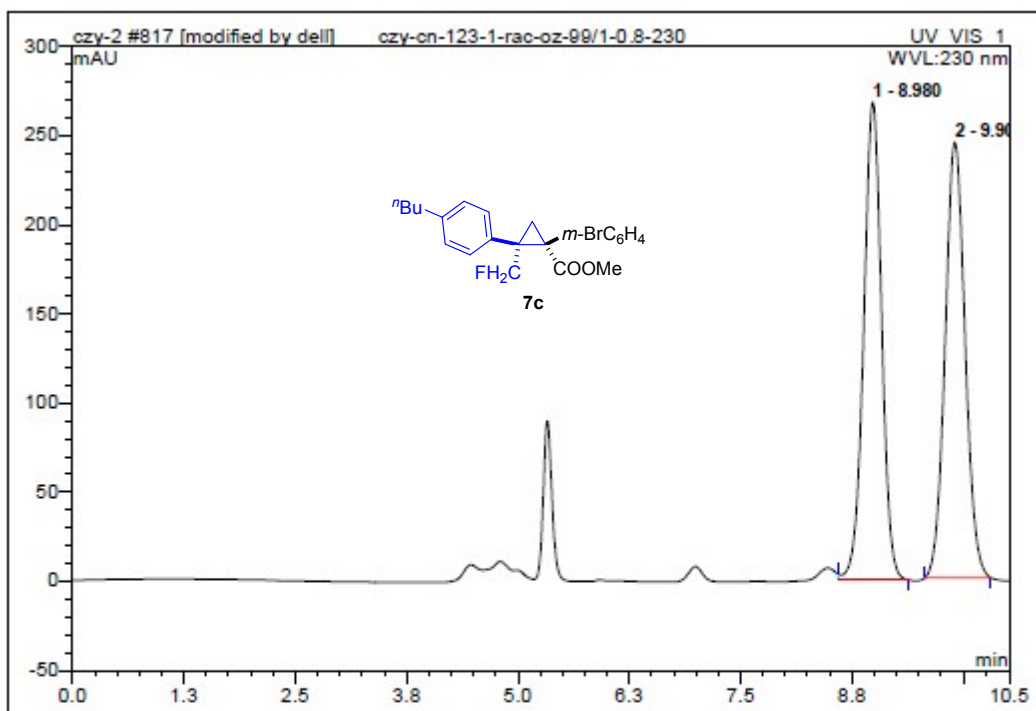
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.46	n.a.	7.788	2.874	3.31	n.a.	BMB*
2	16.80	n.a.	206.107	83.835	96.69	n.a.	BMB*
Total:			213.895	86.709	100.00	0.000	



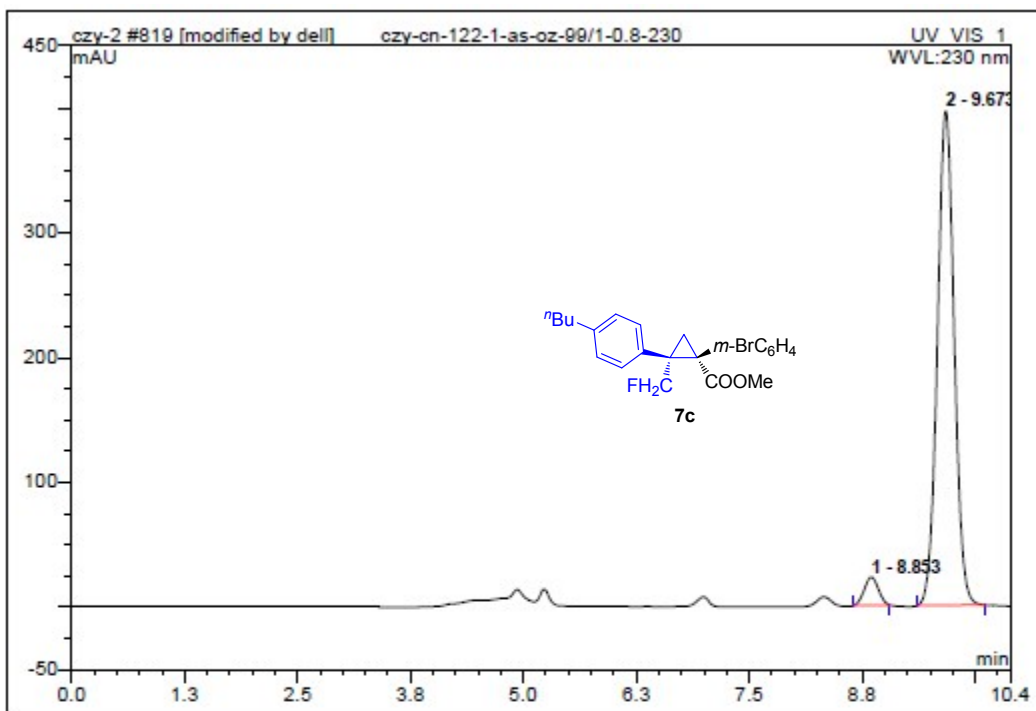
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	8.23	n.a.	92.844	17.458	49.81	n.a.	BM *
2	8.54	n.a.	89.350	17.589	50.19	n.a.	MB*
Total:			182.194	35.047	100.00	0.000	



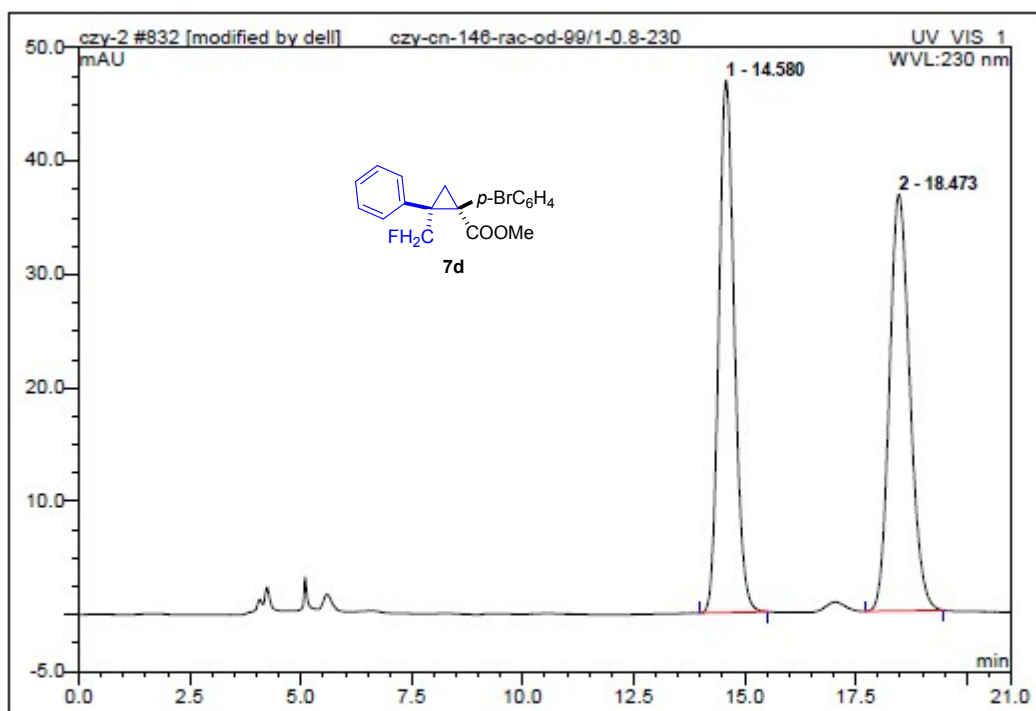
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	8.25	n.a.	7.021	1.102	3.88	n.a.	BM *
2	8.57	n.a.	140.378	27.277	96.12	n.a.	MB*
Total:			147.399	28.378	100.00	0.000	



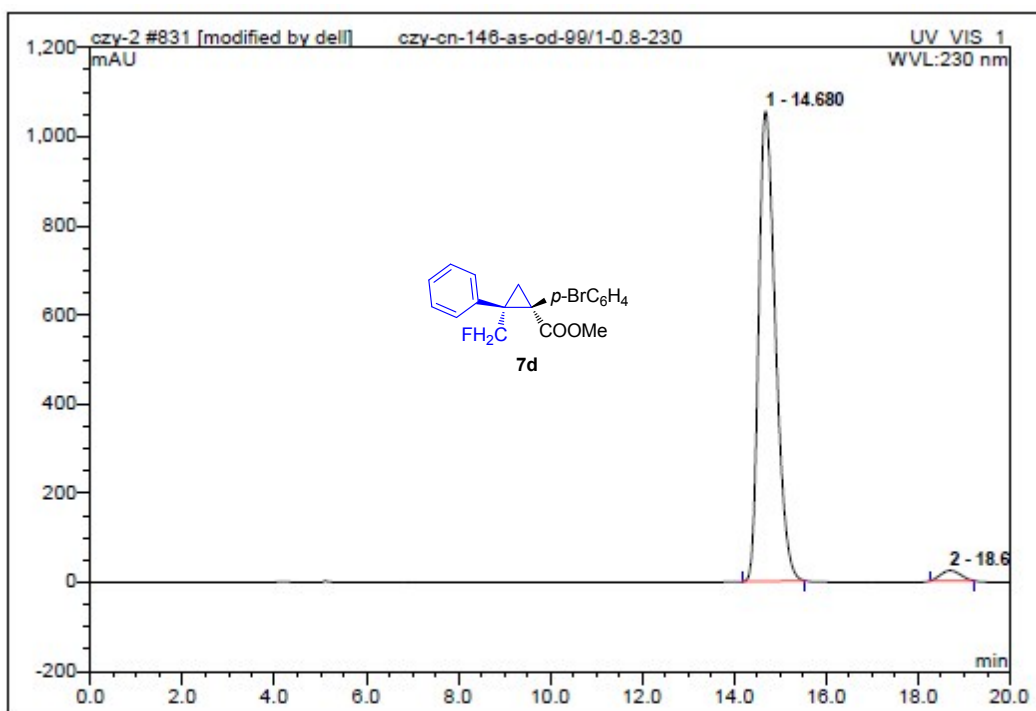
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	8.98	n.a.	267.792	62.486	49.64	n.a.	MB*
2	9.91	n.a.	244.452	63.397	50.36	n.a.	BMB*
Total:			512.244	125.883	100.00	0.000	



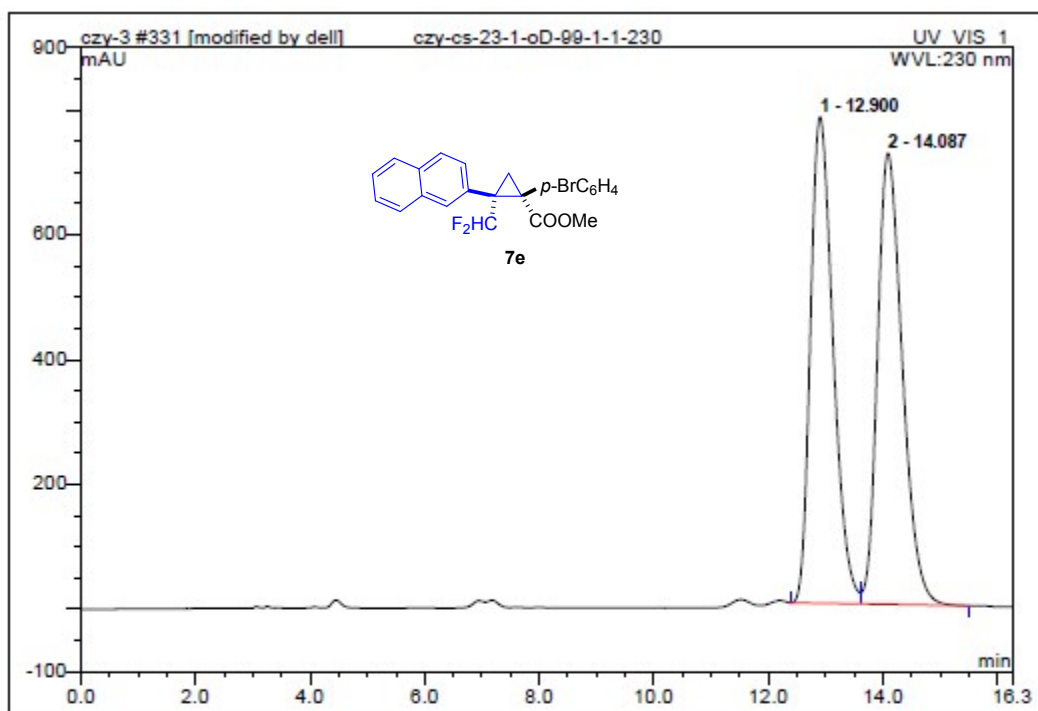
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	8.85	n.a.	22.596	4.078	4.56	n.a.	BMB*
2	9.67	n.a.	396.263	85.379	95.44	n.a.	BMB*
Total:			418.859	89.457	100.00	0.000	



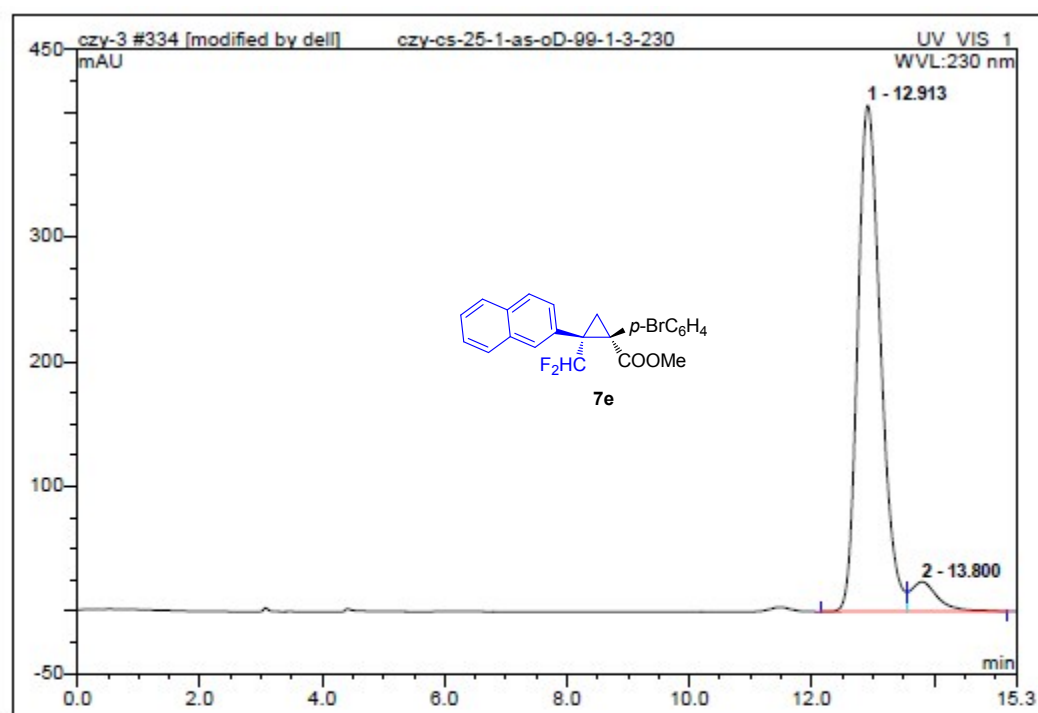
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	14.58	n.a.	46.919	19.046	49.31	n.a.	BMB
2	18.47	n.a.	36.740	19.578	50.69	n.a.	BMB
Total:			83.659	38.624	100.00	0.000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	14.68	n.a.	1054.727	444.877	97.44	n.a.	BMB*
2	18.69	n.a.	23.464	11.706	2.56	n.a.	BMB*
Total:			1078.191	456.583	100.00	0.000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	12.90	n.a.	779.948	356.656	49.47	n.a.	BM *
2	14.09	n.a.	723.173	364.291	50.53	n.a.	MB*
Total:			1503.121	720.946	100.00	0.000	



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	12.91	n.a.	405.650	175.897	93.57	n.a.	BM *
2	13.80	n.a.	23.592	12.089	6.43	n.a.	MB*
Total:			429.241	187.986	100.00	0.000	