

1 **Mass Spectrometry Imaging (MSI) of Fresh Bones using**
2 **Matrix-Assisted Laser Desorption Electrospray Ionization (IR-MALDESI)**

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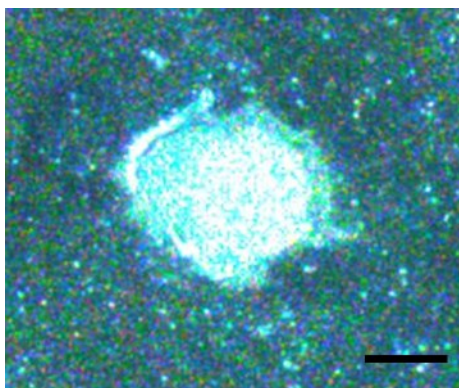
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Supplemental Figure 1. Optical image of spot ablated from ZAP-IT paper at room temperature. Scale bar is 100 μm .

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32 **Supplementary Table 1.** Putative elemental compositions annotated in METASPACE
 33 (<https://metaspace2020.eu/project/Khodjaniazova-2019-bones>) using Human Metabolome Database for
 34 endogenous species.

Healthy			Stroke		
Formula	Adduct	<i>m/z</i>	Formula	Adduct	<i>m/z</i>
C40H80NO8P	M+H	734.5694	C40H80NO8P	M+H	734.5694
C19H38O2	M+H	299.2944	C37H68O4	M+H	577.5190
C18H36O2	M+H	285.2788	C20H32O2	M+H	305.2475
C37H68O4	M+H	577.5190	C42H82NO8P	M+H	760.5850
C20H32O2	M+H	305.2475	C27H44O	M+H	385.3465
C27H44O	M+H	385.3465	C48H84NO8P	M+H	834.6007
C18H34O2	M+H	283.2631	C35H66O4	M+H	551.5033
C30H50	M+H	411.3985	C39H79N2O6P	M+H	703.5748
C45H78NO8P	M+H	792.5537	C45H78NO8P	M+H	792.5537
C10H12N4O5	M+K	307.0439	C37H71O8P	M+K	713.4518
C35H66O4	M+H	551.5033	C30H50	M+H	411.3985
C42H82NO8P	M+H	760.5850	C35H64O4	M+H	549.4877
C39H79N2O6P	M+H	703.5748	C24H50NO7P	M+H	496.3397
C22H26O6	M+K	425.1361	C10H17N3O6S	M+H	308.0910
C18H30O	M+H	263.2369	C26H33NO6	M+H	456.2380
C18H34O4	M+H	315.2529	C22H32O2	M+H	329.2475
C24H50NO7P	M+H	496.3397	C23H45NO4	M+H	400.3421
C29H46O3	M+Na	465.3339	C46H80NO8P	M+H	806.5694
C48H84NO8P	M+H	834.6007	C44H80NO8P	M+H	782.5694
C35H64O4	M+H	549.4877	C46H84NO8P	M+H	810.6007
C22H32O2	M+H	329.2475	C43H74NO8P	M+H	764.5224
C10H17N3O6S	M+H	308.0910	C18H13NO4	M+H	308.0917
C15H10N2O2	M+H	251.0815	C37H74NO8P	M+H	692.5224

C41H83N2O6P	M+H	731.6061	C27H44O2	M+H	401.3414
C22H45NO	M+H	340.3574	C37H66O4	M+H	575.5033
C43H74NO8P	M+H	764.5224	C27H42O	M+H	383.3308
C20H30O2	M+H	303.2318	C42H84NO7P	M+H	746.6058
C37H66O4	M+H	575.5033	C29H48O3	M+H	445.3676
C46H80NO8P	M+H	806.5694	C25H47NO4	M+H	426.3577
C26H54NO7P	M+H	524.3710	C42H80NO8P	M+H	758.5694
C18H13NO4	M+H	308.0917	C26H54NO7P	M+H	524.3710
C42H84NO7P	M+H	746.6058	C22H34O2	M+H	331.2631
C37H74NO8P	M+H	692.5224	C38H76NO8P	M+H	706.5381
C46H84NO8P	M+H	810.6007	C20H30O2	M+H	303.2318
C27H44O2	M+H	401.3414	C40H78NO8P	M+H	732.5537
C44H80NO8P	M+H	782.5694	C43H78NO8P	M+H	768.5537
C29H57NO4	M+H	484.4360	C41H83N2O6P	M+H	731.6061
C22H34O2	M+H	331.2631	C44H82NO7P	M+H	768.5901
C27H46O2	M+H	403.3570	C27H46O2	M+H	403.3570
C27H42O	M+H	383.3308	C44H84NO8P	M+H	786.6007
C21H40O3	M+H	341.3050	C47H93N2O6P	M+H	813.6844
C16H12N2O2	M+H	265.0971	C18H39N	M+H	270.3155
C42H80NO8P	M+H	758.5694	C35H62O4	M+H	547.4720
C23H45NO4	M+H	400.3421	C18H35NO	M+H	282.2791
C26H33NO6	M+H	456.2380	C12H17N3O4	M+H	268.1291
C37H64O4	M+H	573.4877	C41H74NO7P	M+H	724.5275
C35H62O4	M+H	547.4720	C37H64O4	M+H	573.4877
C44H82NO7P	M+H	768.5901	C42H82NO7P	M+H	744.5901
C43H78NO8P	M+H	768.5537	C43H74NO7P	M+H	748.5275
C18H35NO	M+H	282.2791	C42H78NO8P	M+H	756.5537
C44H84NO8P	M+H	786.6007	C39H74NO8P	M+H	716.5224
C40H78NO8P	M+H	732.5537	C46H84NO7P	M+H	794.6058
C47H93N2O6P	M+H	813.6844	C46H82NO8P	M+H	808.5850
C38H76NO8P	M+H	706.5381	C22H35NO2	M+H	346.2740
C20H35NO2	M+H	322.2740	C43H78NO7P	M+H	752.5588
C20H30O	M+H	287.2369	C41H78NO8P	M+H	744.5537
C43H74NO7P	M+H	748.5275	C44H78NO8P	M+H	780.5537
C29H48O3	M+H	445.3676	C46H78NO8P	M+H	804.5537
C42H78NO8P	M+H	756.5537	C48H82NO8P	M+H	832.5850
C42H82NO7P	M+H	744.5901	C21H39O6P	M+H	419.2557
C34H67NO3	M+H	538.5193	C12H20N4O3	M+H	269.1608
C46H82NO8P	M+H	808.5850	C36H71NO3	M+H	566.5506
C21H39O6P	M+H	419.2557	C45H69O8P	M+H	769.4802
C34H65NO3	M+H	536.5037	C21H40O3	M+H	341.3050

C21H42O4	M+H	359.3155	C26H52NO6P	M+H	506.3605
C21H36O3	M+H	337.2737	C39H76NO8P	M+H	718.5381
C44H78NO8P	M+H	780.5537	C22H36O2	M+H	333.2788
C39H74NO8P	M+H	716.5224	C43H76NO8P	M+H	766.5381
C44H82NO8P	M+H	784.5850	C44H76NO8P	M+H	778.5381
C46H78NO8P	M+H	804.5537	C10H14N5O7P	M+H	348.0703
C48H82NO8P	M+H	832.5850	C23H48NO7P	M+H	482.3241
C24H40O4	M+H	393.2999	C44H82NO8P	M+H	784.5850
C39H76NO8P	M+H	718.5381	C39H69O8P	M+H	697.4802
C46H84NO7P	M+H	794.6058	C55H98O6	M+H	855.7436
C21H40O4	M+H	357.2999	C41H80NO8P	M+H	746.5694
C57H100O6	M+H	881.7592	C45H76NO8P	M+H	790.5381
C41H74NO7P	M+H	724.5275	C45H91N2O6P	M+H	787.6687
C43H78NO7P	M+H	752.5588	C40H80NO7P	M+H	718.5745
C41H78NO8P	M+H	744.5537	C25H49NO4	M+H	428.3734
C39H69O8P	M+H	697.4802	C20H35NO2	M+H	322.2740
C55H98O6	M+H	855.7436	C42H84NO8P	M+H	762.6007
C12H17N3O4	M+H	268.1291	C34H65NO3	M+H	536.5037
C22H35NO2	M+H	346.2740	C41H74NO8P	M+H	740.5224
C48H80NO8P	M+H	830.5694	C13H24N4O3	M+H	285.1921
C55H100O6	M+H	857.7592	C46H86NO7P	M+H	796.6214
C44H76NO8P	M+H	778.5381	C26H46O6	M+H	455.3367
C39H70O5	M+H	619.5296	C30H58O4S	M+H	515.4128
C53H96O6	M+H	829.7279	C11H18N4O3	M+H	255.1451
C40H80NO7P	M+H	718.5745	C57H100O6	M+H	881.7592
C41H71O8P	M+H	723.4959	C40H76NO8P	M+H	730.5381
C43H76NO8P	M+H	766.5381	C41H78NO7P	M+H	728.5588
C45H76NO8P	M+H	790.5381	C44H86NO7P	M+H	772.6214
C59H102O6	M+H	907.7749	C27H44O3	M+H	417.3363
C22H36O2	M+H	333.2788	C27H45O5	M+H	450.3339
C46H80NO7P	M+H	790.5745	C55H96O6	M+H	853.7279
C46H86NO7P	M+H	796.6214	C55H100O6	M+H	857.7592
C26H52NO6P	M+H	506.3605	C48H80NO8P	M+H	830.5694
C45H69O8P	M+H	769.4802	C27H42O3	M+H	415.3206
C27H45O5	M+H	450.3339	C27H46O	M+H	387.3621
C45H91N2O6P	M+H	787.6687	C41H71O8P	M+H	723.4959
C26H48O5	M+H	441.3574	C42H76NO8P	M+H	754.5381
C36H73NO3	M+H	568.5663	C53H92O7	M+H	841.6915
C50H82NO8P	M+H	856.5850	C47H95N2O6P	M+H	815.7000
C22H36O4	M+H	365.2686	C53H96O6	M+H	829.7279
C12H20N4O3	M+H	269.1608	C48H78NO8P	M+H	828.5537

C47H82NO8P	M+H	820.5850	C57H98O6	M+H	879.7436
C26H50O5	M+H	443.3731	C47H82NO8P	M+H	820.5850
C27H44O3	M+H	417.3363	C29H50O2	M+H	431.3883
C26H42O	M+H	371.3308	C18H33NO	M+H	280.2635
C44H86NO8P	M+H	788.6163	C44H80NO7P	M+H	766.5745
C55H96O6	M+H	853.7279	C55H94O6	M+H	851.7123
C42H84NO8P	M+H	762.6007	C21H41NO4	M+H	372.3108
C27H53NO4	M+H	456.4047	C43H76NO7P	M+H	750.5432
C10H14N5O7P	M+H	348.0703	C44H86NO8P	M+H	788.6163
C25H47NO4	M+H	426.3577	C44H85NO11S	M+H	836.5916
C47H76NO8P	M+H	814.5381	C21H40O4	M+H	357.2999
C44H84NO6P	M+H	754.6109	C39H78NO8P	M+H	720.5537
C46H82NO7P	M+H	792.5901	C44H84NO6P	M+H	754.6109
C41H74NO8P	M+H	740.5224	C59H102O6	M+H	907.7749
C36H71NO3	M+H	566.5506	C21H36O3	M+H	337.2737
C47H73O8P	M+H	797.5115	C34H67NO3	M+H	538.5193
C11H18N4O3	M+H	255.1451	C47H80NO8P	M+H	818.5694
C39H68O5	M+H	617.5139	C28H48O5	M+H	465.3574
C47H95N2O6P	M+H	815.7000	C37H72NO8P	M+H	690.5068
C30H58O4S	M+H	515.4128	C45H78NO7P	M+H	776.5588
C53H92O7	M+H	841.6915	C46H80NO7P	M+H	790.5745
C57H102O6	M+H	883.7749	C57H96O6	M+H	877.7279
C44H80NO7P	M+H	766.5745	C47H78NO8P	M+H	816.5537
C25H49NO4	M+H	428.3734	C44H84NO7P	M+H	770.6058
C27H46O	M+H	387.3621	C13H17N3O4	M+H	280.1291
C41H80NO8P	M+H	746.5694	C22H39NO2	M+H	350.3053
C20H32N6O12S2	M+H	613.1592	C43H69O8P	M+H	745.4802
C44H86NO7P	M+H	772.6214	C13H20N2O3	M+H	253.1546
C27H42O3	M+H	415.3206	C41H76NO8P	M+H	742.5381
C42H76NO8P	M+H	754.5381	C57H102O6	M+H	883.7749
C57H98O6	M+H	879.7436	C43H80NO8P	M+H	770.5694
C40H76NO8P	M+H	730.5381	C16H21N3O3S	M+H	336.1376
C43H76NO7P	M+H	750.5432	C41H69O8P	M+H	721.4802
C26H52NO7P	M+H	522.3554	C59H98O6	M+H	903.7436
C19H38O4	M+H	331.2842	C50H82NO8P	M+H	856.5850
C45H78NO7P	M+H	776.5588	C8H20NO6P	M+H	258.1101
C42H80NO7P	M+H	742.5745	C46H82NO7P	M+H	792.5901
C59H100O6	M+H	905.7592	C26H40O	M+H	369.3152
C43H82NO8P	M+H	772.5850	C14H19N3O4	M+H	294.1448
C47H80NO8P	M+H	818.5694	C39H70O5	M+H	619.5296
C48H78NO8P	M+H	828.5537	C42H81NO3	M+H	648.6289

C42H81NO3	M+H	648.6289	C43H82NO8P	M+H	772.5850
C43H69O8P	M+H	745.4802	C26H42O	M+H	371.3308
C16H22O5	M+H	295.1540	C39H68O5	M+H	617.5139
C43H73O8P	M+H	749.5115	C29H48O2	M+H	429.3727
C41H69O8P	M+H	721.4802	C45H80NO8P	M+H	794.5694
C44H84NO7P	M+H	770.6058	C11H16N4O4	M+H	269.1244
C25H42O4	M+H	407.3155	C11H16N4O3	M+H	253.1295
C41H76NO8P	M+H	742.5381	C47H73O8P	M+H	797.5115
C28H48O4	M+H	449.3625	C27H40O2	M+H	397.3101
C53H94O6	M+H	827.7123	C15H19N3O2	M+H	274.1550
C41H78NO7P	M+H	728.5588	C10H13N4O8P	M+H	349.0543
C43H80NO8P	M+H	770.5694	C15H19N3O3	M+H	290.1499
C26H46O6	M+H	455.3367	C16H18N3O5	M+H	333.1319
C38H77NO3	M+H	596.5976	C43H71O8P	M+H	747.4959
C27H40O2	M+H	397.3101	C25H36O3	M+H	385.2737
C22H39NO2	M+H	350.3053	C14H20N2O3	M+H	265.1546
C39H78NO7P	M+H	704.5588	C14H19N3O2	M+H	262.1550
C22H37NO2	M+H	348.2897	C39H78NO7P	M+H	704.5588
C13H24N4O3	M+H	285.1921	C42H80NO7P	M+H	742.5745
C12H16O6S	M+H	289.0740	C15H23N3O2	M+H	278.1863
C47H74O2	M+H	671.5761	C45H73O8P	M+H	773.5115
C59H98O6	M+H	903.7436	C25H47NO5	M+H	442.3527
C57H96O6	M+H	877.7279	C23H45NO5	M+H	416.3370
C23H38O4	M+H	379.2842	C37H69O7P	M+H	657.4853
C24H37NO2	M+H	372.2897	C46H86NO8P	M+H	812.6163
C26H47NO	M+H	390.3730	C26H47NO	M+H	390.3730
C26H40O	M+H	369.3152	C47H76NO8P	M+H	814.5381
C46H86NO8P	M+H	812.6163	C18H19NO7	M+H	362.1234
C15H12N2O2	M+H	253.0971	C38H74NO8P	M+H	704.5224
C50H80NO8P	M+H	854.5694	C22H37NO2	M+H	348.2897
C38H78NO7P	M+H	692.5588	C49H100N2O6P	M+H	844.7391
C37H72NO8P	M+H	690.5068	C37H66O5	M+H	591.4983
C49H100N2O6P	M+H	844.7391	C38H78NO7P	M+H	692.5588
C54H82O4	M+H	795.6285	C14H18N2O3	M+H	263.1390
C55H94O6	M+H	851.7123	C23H46NO7P	M+H	480.3084
C11H16N4O4	M+H	269.1244	C10H13N5O3	M+H	252.1091
C21H41NO4	M+H	372.3108	C21H22O7	M+H	387.1438
C11H12BrN5O	M+H	310.0298	C57H104O6	M+H	885.7905
C10H13N4O8P	M+H	349.0543	C45H82NO8P	M+H	796.5850
C25H45NO4	M+H	424.3421	C53H94O6	M+H	827.7123
C45H71O8P	M+H	771.4959	C19H40O3	M+H	317.3050

C41H68O5	M+H	641.5139	C19H22O7	M+H	363.1438
C11H16N4O3	M+H	253.1295	C32H50O7	M+H	547.3629
C43H71O8P	M+H	747.4959	C13H18N2O3	M+H	251.1390
C39H76NO7P	M+H	702.5432	C21H23NO7	M+H	402.1547
C38H70O4	M+H	591.5346	C42H86NO7P	M+H	748.6214
C39H78NO8P	M+H	720.5537	C19H20O7	M+H	361.1281
C20H24O7	M+H	377.1594	C26H52NO7P	M+H	522.3554
C44H85NO11S	M+H	836.5916	C43H73O8P	M+H	749.5115
C16H21N3O3S	M+H	336.1376	C23H31NO7	M+H	434.2173
C45H80NO8P	M+H	794.5694	C48H86NO8P	M+H	836.6163
C20H39NO2	M+H	326.3053	C22H39NO	M+H	334.3104
C41H70O5	M+H	643.5296	C41H76NO7P	M+H	726.5432
C26H56NO6P	M+H	510.3918	C23H43NO4	M+H	398.3264
C23H46NO7P	M+H	480.3084	C23H29NO7	M+H	432.2016
C29H48O2	M+H	429.3727	C24H37NO2	M+H	372.2897
C16H12O9	M+H	349.0554	C14H17N3O3	M+H	276.1342
C45H82NO8P	M+H	796.5850	C20H24O7	M+H	377.1594
C18H18O6	M+H	331.1176	C20H32N6O12S2	M+H	613.1592
C26H50NO7P	M+H	520.3397	C14H22N2O3	M+H	267.1703
C41H76NO7P	M+H	726.5432	C21H24O7	M+H	389.1594
C35H52O4	M+H	537.3938	C39H81N2O6P	M+H	705.5905
C13H20N2O3	M+H	253.1546	C45H71O8P	M+H	771.4959
C26H54NO6P	M+H	508.3761	C23H27NO9	M+H	462.1758
C45H73O8P	M+H	773.5115	C39H76NO7P	M+H	702.5432
C15H10O4	M+H	255.0651	C18H20O7	M+H	349.1281
C45H67O8P	M+H	767.4646	C20H23NO6	M+H	374.1598
C29H50O2	M+H	431.3883	C43H80NO7P	M+H	754.5745
C25H36O3	M+H	385.2737	C18H18O7	M+H	347.1125
C23H48NO7P	M+H	482.3241	C14H22N2O2	M+H	251.1754
C39H67O8P	M+H	695.4646	C15H14O7	M+H	307.0812
C45H76NO7P	M+H	774.5432	C45H76NO7P	M+H	774.5432
C37H69O7P	M+H	657.4853	C26H50NO7P	M+H	520.3397
C42H86NO7P	M+H	748.6214	C50H80NO8P	M+H	854.5694
C43H87N2O6P	M+H	759.6374	C16H12O9	M+H	349.0554
C27H46O3	M+H	419.3519	C44H74NO8P	M+H	776.5224
C42H83NO3	M+H	650.6445	C15H10O4	M+H	255.0651
C10H13N5O3	M+H	252.1091	C54H82O4	M+H	795.6285
C12H5F6NO2	M+H	310.0297	C18H20O6	M+H	333.1332
C14H30N4O2	M+H	287.2441	C17H18O8	M+H	351.1074
C51H90O7	M+H	815.6759	C22H28O7	M+H	405.1907
C39H81N2O6P	M+H	705.5905	C19H21NO6	M+H	360.1441

C19H20O7	M+H	361.1281	C42H83NO3	M+H	650.6445
C19H40O3	M+H	317.3050	C16H12O4	M+H	269.0808
C46H78NO10P	M+H	836.5436	C20H18O8	M+H	387.1074
C15H10N2O3	M+H	267.0764	C10H16N4O4	M+H	257.1244
C21H23NO7	M+H	402.1547	C45H82NO7P	M+H	780.5901
C13H17N3O4	M+H	280.1291	C18H18O8	M+H	363.1074
C45H74NO8P	M+H	788.5224	C41H68O5	M+H	641.5139
C18H20O7	M+H	349.1281	C20H20O7	M+H	373.1281
C49H82NO8P	M+H	844.5850	C22H25NO7	M+H	416.1703
C41H80NO7P	M+H	730.5745	C45H80NO7P	M+H	778.5745
C43H80NO7P	M+H	754.5745	C46H76NO8P	M+H	802.5381
C11H15N5O3S	M+H	298.0968	C23H39NO	M+H	346.3104
C48H86NO8P	M+H	836.6163	C59H100O6	M+H	905.7592
C37H66O5	M+H	591.4983	C41H80NO7P	M+H	730.5745
C21H44O3	M+H	345.3363	C16H20N2O	M+H	257.1648
C48H84NO7P	M+H	818.6058	C41H82NO7P	M+H	732.5901
C8H20NO6P	M+H	258.1101	C22H30O2	M+H	327.2318
C16H16O7	M+H	321.0968	C18H20FNO3S	M+H	350.1220
C17H12O4	M+H	281.0808	C43H87N2O6P	M+H	759.6374
C13H18N2O3	M+H	251.1390	C26H54NO6P	M+H	508.3761
C27H40O3	M+H	413.3050	C23H28O7	M+H	417.1907
C20H37NO2	M+H	324.2897	C34H69NO3	M+H	540.5350
C27H42O4	M+H	431.3155	C42H81NO11S	M+H	808.5603
C22H25NO7	M+H	416.1703	C48H86NO7P	M+H	820.6214
C25H47NO5	M+H	442.3527	C39H74NO7P	M+H	700.5275
C52H80NO8P	M+H	878.5694	C41H72NO8P	M+H	738.5068
C37H74O13P2	M+H	789.4677	C17H14O4	M+H	283.0964
C45H72NO8P	M+H	786.5068	C27H45NO	M+H	400.3574
C23H39NO	M+H	346.3104	C32H45NO4	M+H	508.3421
C53H92O6	M+H	825.6966	C25H50NO7P	M+H	508.3397
C39H74NO7P	M+H	700.5275	C12H16N2O4	M+H	253.1182
C53H90O7	M+H	839.6759	C14H17N2O5	M+H	294.1210
C41H82NO8P	M+H	748.5850	C15H19N3O4	M+H	306.1448
C27H36N2O5	M+H	469.2697	C19H20O8	M+H	377.1231
C14H12O6S	M+H	309.0427	C17H18O6	M+H	319.1176
C45H80NO7P	M+H	778.5745	C27H42O4	M+H	431.3155
C36H68O4	M+H	565.5190	C14H17N3O2	M+H	260.1393
C27H45NO2	M+H	416.3523	C53H92O6	M+H	825.6966
C18H19NO7	M+H	362.1234	C17H18O7	M+H	335.1125
C23H43NO5	M+H	414.3214	C19H24O7	M+H	365.1594
C49H84NO8P	M+H	846.6007	C43H82NO7P	M+H	756.5901

C14H19N3O4	M+H	294.1448	C10H13N5O4	M+H	268.1040
C30H52O4	M+H	477.3938	C37H70O12S	M+H	739.4660
C18H20O6	M+H	333.1332	C60H94O6	M+H	911.7123
C32H45NO4	M+H	508.3421	C40H74NO8P	M+H	728.5224
C24H48NO7P	M+H	494.3241	C41H70O5	M+H	643.5296
C41H82NO7P	M+H	732.5901	C20H39NO5	M+H	374.2901
C27H45NO	M+H	400.3574	C11H15N5O3S	M+H	298.0968
C57H104O6	M+H	885.7905	C25H48NO7P	M+H	506.3241
C10H16N4O4	M+H	257.1244	C39H66O5	M+H	615.4983
C39H66O5	M+H	615.4983	C25H38O4	M+H	403.2842
C47H93O8P	M+H	817.6680	C21H23NO9	M+H	434.1445
C19H22O7	M+H	363.1438	C40H78NO7P	M+H	716.5588
C57H94O6	M+H	875.7123	C53H90O7	M+H	839.6759
C43H82NO7P	M+H	756.5901	C52H80NO8P	M+H	878.5694
C28H52NO7P	M+H	546.3554	C44H86NO6P	M+H	756.6265
C22H39NO	M+H	334.3104	C14H30N4O2	M+H	287.2441
C42H81NO11S	M+H	808.5603	C25H32N2O7	M+H	473.2282
C23H43NO4	M+H	398.3264	C24H48NO7P	M+H	494.3241
C20H22O7	M+H	375.1438	C34H39N3O12S	M+H	714.2327
C48H86NO7P	M+H	820.6214	C15H23N3O3	M+H	294.1812
C34H69NO3	M+H	540.5350	C21H39NO4	M+H	370.2951
C20H26O7	M+H	379.1751	C7H14N2O6S	M+H	255.0645
C45H82NO7P	M+H	780.5901	C19H19NO6	M+H	358.1285
C14H20N2O3	M+H	265.1546	C29H38O4	M+H	451.2842
C21H26O7	M+H	391.1751	C46H93N2O6P	M+H	801.6844
C40H74NO8P	M+H	728.5224	C24H32O7	M+H	433.2220
C40H75NO8	M+H	698.5565	C23H29NO8	M+H	448.1966
C14H17N2O5	M+H	294.1210	C45H72NO8P	M+H	786.5068
C13H25O7P	M+H	325.1410	C48H84NO7P	M+H	818.6058
C44H78NO10P	M+H	812.5436	C48H77O10P	M+H	845.5327
C44H86NO6P	M+H	756.6265	C49H82NO8P	M+H	844.5850
C19H24O7	M+H	365.1594	C14H12O6S	M+H	309.0427
C37H64O5	M+H	589.4826	C43H72NO8P	M+H	762.5068
C50H84NO8P	M+H	858.6007	C17H25N5O4	M+H	364.1979
C24H47NO4	M+H	414.3577	C23H40NO7P	M+H	474.2615
C10H14N5O6P	M+H	332.0754	C20H37NO2	M+H	324.2897
C22H22O11	M+H	463.1234	C20H22O7	M+H	375.1438
C23H27NO9	M+H	462.1758	C10H14N5O6P	M+H	332.0754
C15H12O4	M+H	257.0808	C43H84NO8P	M+H	774.6007
C17H18O7	M+H	335.1125	C18H18O6	M+H	331.1176
C16H16O6	M+H	305.1019	C49H84NO8P	M+H	846.6007

C34H64O4	M+H	537.4877	C20H26O7	M+H	379.1751
C40H78NO7P	M+H	716.5588	C13H26N4O2	M+H	271.2128
C41H66O5	M+H	639.4983	C25H43NO4	M+H	422.3264
C43H72O5	M+H	669.5452	C21H26O7	M+H	391.1751
C39H82N2O6P	M+H	706.5983	C23H30O7	M+H	419.2064
C14H17NO7	M+H	312.1077	C46H78NO10P	M+H	836.5436
C43H84NO8P	M+H	774.6007	C24H42O12	M+H	523.2749
C50H78NO8P	M+H	852.5537	C37H40N2O6	M+H	609.2959
C37H40N2O6	M+H	609.2959	C23H44NO7P	M+H	478.2928
C22H28F2O5	M+H	411.1977	C45H74NO8P	M+H	788.5224
C7H14N2O6S	M+H	255.0645	C16H16O6	M+H	305.1019
C20H32O4	M+H	337.2373	C17H24N4O3	M+H	333.1921
C37H70O12S	M+H	739.4660	C55H102O6	M+H	859.7749
C23H44NO7P	M+H	478.2928	C24H40O4	M+H	393.2999
C15H23N3O2	M+H	278.1863	C27H40O3	M+H	413.3050
C53H98O6	M+H	831.7436	C53H98O6	M+H	831.7436
C9H16N2O6S	M+H	281.0801	C19H37O6P	M+H	393.2400
C16H12O4	M+H	269.0808	C16H26O8	M+H	347.1700
C48H90NO7P	M+H	824.6527	C39H67O8P	M+H	695.4646
C10H13N5O4	M+H	268.1040	C21H27NO6	M+H	390.1911
C25H38O4	M+H	403.2842	C41H74O12S	M+H	791.4973
C14H19N3O2	M+H	262.1550	C42H79NO11S	M+H	806.5446
C25H48NO7P	M+H	506.3241	C13H18N2O4	M+H	267.1339
C50H86NO8P	M+H	860.6163	C35H53O8	M+H	602.3813
C10H8O7S	M+H	273.0063	C48H82NO7P	M+H	816.5901
C23H31NO7	M+H	434.2173	C37H64O5	M+H	589.4826
C47H78NO8P	M+H	816.5537	C21H22O8	M+H	403.1387
C18H14O4	M+H	295.0964	C11H21N5O5	M+H	304.1615
C38H74NO8P	M+H	704.5224	C50H86NO8P	M+H	860.6163
C21H22O7	M+H	387.1438	C9H14N2O7	M+H	263.0873
C37H70O5	M+H	595.5296	C43H84NO7P	M+H	758.6058
C55H102O6	M+H	859.7749	C16H18O6	M+H	307.1176
C17H14O4	M+H	283.0964	C35H70NO8P	M+H	664.4911
C23H29NO8	M+H	448.1966	C30H50NO7P	M+H	568.3397
C37H68O5	M+H	593.5139	C18H22N2O	M+H	283.1805
C17H26N4O2	M+H	319.2128	C14H17N3O4	M+H	292.1291
C18H18O7	M+H	347.1125	C39H40O15	M+H	749.2440
C47H84NO8P	M+H	822.6007	C27H40O4	M+H	429.2999
C15H19N3O3	M+H	290.1499	C24H47NO4	M+H	414.3577
C20H21NO7	M+H	388.1390	C17H12O4	M+H	281.0808
C14H18N5O11P	M+H	464.0813	C18H18FNO2S	M+H	332.1115

C16H18N3O5	M+H	333.1319	C41H82NO8P	M+H	748.5850
C21H43O6P	M+H	423.2870	C50H84NO8P	M+H	858.6007
C40H60O4	M+H	605.4564	C19H24O6	M+H	349.1645
C46H81O10P	M+H	825.5640	C14H17NO7	M+H	312.1077
C16H18O6	M+H	307.1176	C41H82O13P2	M+H	845.5303
C13H22N4O8S2	M+H	427.0951	C18H14O4	M+H	295.0964
C42H78NO7P	M+H	740.5588	C20H22O8	M+H	391.1387
C59H96O6	M+H	901.7279			
C18H22O8	M+H	367.1387			
C43H72NO8P	M+H	762.5068			
C14H22N2O3	M+H	267.1703			
C26H45NO	M+H	388.3574			
C42H76NO7P	M+H	738.5432			
C23H45NO5	M+H	416.3370			
C26H32O3	M+H	393.2424			
C11H21N5O3	M+H	272.1717			
C55H92O6	M+H	849.6966			
C17H26O4	M+H	295.1903			
C46H93N2O6P	M+H	801.6844			
C36H71O8P	M+H	663.4959			
C36H72NO6P	M+H	646.5170			
C24H32O7	M+H	433.2220			
C21H24O7	M+H	389.1594			
C46H88NO8P	M+H	814.6320			
C43H66O5	M+H	663.4983			
C43H85NO8	M+H	744.6348			
C16H10O5	M+H	283.0601			
C8H16NO3PS2	M+H	270.0382			
C16H13NO4	M+H	284.0917			
C26H32O4	M+H	409.2373			
C29H38O4	M+H	451.2842			
C15H19N3O2	M+H	274.1550			
C21H20O11	M+H	449.1078			
C16H24N3O8	M+H	387.1636			
C22H30O2	M+H	327.2318			
C20H18O7S	M+H	403.0846			
C25H50NO7P	M+H	508.3397			
C15H31O7P	M+H	355.1880			
C43H70O5	M+H	667.5296			
C48H77O10P	M+H	845.5327			
C21H37O6P	M+H	417.2400			

C14H18N2O3	M+H	263.1390
C38H75NO3	M+H	594.5819
C26H48NO7P	M+H	518.3241
C44H78NO7P	M+H	764.5588
C48H76NO8P	M+H	826.5381
C16H20N2O	M+H	257.1648
C48H82NO7P	M+H	816.5901
C41H76NO10P	M+H	774.5279
C22H28O7	M+H	405.1907
C47H86O6	M+H	747.6497
C19H22O6	M+H	347.1489
C45H84NO8P	M+H	798.6007
C27H38O2	M+H	395.2944
C16H14O4	M+H	271.0964
C33H64O3	M+H	509.4928
C21H41O6P	M+H	421.2713
C9H14N2O7	M+H	263.0873
C26H42O3	M+H	403.3206
C44H88NO7P	M+H	774.6371
C24H41NO2	M+H	376.3210

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36 **Supplementary Table 2.** Putative elemental compositions annotated in METASPACE
37 (<https://metaspace2020.eu/project/Khodjanizyazova-2019-bones>) using LipidMaps database.

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Healthy			Stroke		
Formula	Adduct	<i>m/z</i>	Formula	Adduct	<i>m/z</i>
C27H44	M+H	369.3515	C27H44	M+H	369.3515
C26H50O4	M+H	427.3781	C40H80NO8P	M+H	734.5694
C26H50O4	M+Na	449.3601	C37H68O4	M+H	577.5190
C40H80NO8P	M+H	734.5694	C20H32O2	M+H	305.2475
C19H38O2	M+H	299.2944	C40H82NO7P	M+H	720.5901
C18H36O2	M+H	285.2788	C42H82NO8P	M+H	760.5850
C37H68O4	M+H	577.5190	C27H44O	M+H	385.3465
C20H32O2	M+H	305.2475	C26H50O4	M+H	427.3781
C18H32O	M+H	265.2526	C48H84NO8P	M+H	834.6007
C40H82NO7P	M+H	720.5901	C35H66O4	M+H	551.5033
C27H44O	M+H	385.3465	C39H79N2O6P	M+H	703.5748
C18H34O2	M+H	283.2631	C45H78NO8P	M+H	792.5537
C30H50	M+H	411.3985	C39H70O4	M+H	603.5346
C26H50O4	M+K	465.3340	C34H67NO2	M+H	522.5244
C39H70O4	M+H	603.5346	C23H36O4	M+Na	399.2505

C45H78NO8P	M+H	792.5537	C37H71O8P	M+K	713.4518
C35H66O4	M+H	551.5033	C30H50	M+H	411.3985
C42H82NO8P	M+H	760.5850	C24H50NO7P	M+H	496.3397
C39H79N2O6P	M+H	703.5748	C24H48NO6P	M+H	478.3292
C22H26O6	M+K	425.1361	C22H32O2	M+H	329.2475
C18H30O	M+H	263.2369	C23H45NO4	M+H	400.3421
C19H36O3	M+H	313.2737	C46H80NO8P	M+H	806.5694
C25H22O5	M+Na	425.1359	C44H80NO8P	M+H	782.5694
C18H34O4	M+H	315.2529	C46H84NO8P	M+H	810.6007
C24H50NO7P	M+H	496.3397	C43H74NO8P	M+H	764.5224
C29H46O3	M+Na	465.3339	C37H74NO8P	M+H	692.5224
C48H84NO8P	M+H	834.6007	C27H44O2	M+H	401.3414
C43H71O8P	M+Na	769.4778	C42H81NO2	M+H	632.6340
C22H32O2	M+H	329.2475	C37H66O4	M+H	575.5033
C29H47NO4	M+Na	496.3397	C27H42O	M+H	383.3308
C41H83N2O6P	M+H	731.6061	C42H84NO7P	M+H	746.6058
C24H48NO6P	M+H	478.3292	C29H48O3	M+H	445.3676
C34H67NO2	M+H	522.5244	C25H47NO4	M+H	426.3577
C22H45NO	M+H	340.3574	C30H48	M+H	409.3828
C43H74NO8P	M+H	764.5224	C42H80NO8P	M+H	758.5694
C37H71O8P	M+K	713.4518	C26H54NO7P	M+H	524.3710
C20H30O2	M+H	303.2318	C22H34O2	M+H	331.2631
C37H66O4	M+H	575.5033	C38H76NO8P	M+H	706.5381
C46H80NO8P	M+H	806.5694	C20H30O2	M+H	303.2318
C26H54NO7P	M+H	524.3710	C40H78NO8P	M+H	732.5537
C42H84NO7P	M+H	746.6058	C43H78NO8P	M+H	768.5537
C37H74NO8P	M+H	692.5224	C41H83N2O6P	M+H	731.6061
C46H84NO8P	M+H	810.6007	C44H82NO7P	M+H	768.5901
C27H44O2	M+H	401.3414	C27H46O2	M+H	403.3570
C44H80NO8P	M+H	782.5694	C44H84NO8P	M+H	786.6007
C29H57NO4	M+H	484.4360	C27H42O2	M+H	399.3257
C22H34O2	M+H	331.2631	C47H93N2O6P	M+H	813.6844
C28H44F2O3	M+H	467.3331	C30H52O5	M+H	493.3887
C27H46O2	M+H	403.3570	C35H62O4	M+H	547.4720
C27H42O	M+H	383.3308	C18H35NO	M+H	282.2791
C21H40O3	M+H	341.3050	C41H74NO7P	M+H	724.5275
C42H81NO2	M+H	632.6340	C42H82NO7P	M+H	744.5901
C42H80NO8P	M+H	758.5694	C43H74NO7P	M+H	748.5275
C23H45NO4	M+H	400.3421	C42H78NO8P	M+H	756.5537
C35H62O4	M+H	547.4720	C39H74NO8P	M+H	716.5224
C44H82NO7P	M+H	768.5901	C46H84NO7P	M+H	794.6058

C43H78NO8P	M+H	768.5537	C46H82NO8P	M+H	808.5850
C18H35NO	M+H	282.2791	C22H35NO2	M+H	346.2740
C44H84NO8P	M+H	786.6007	C43H70O4	M+H	651.5346
C16H27F3O2	M+H	309.2036	C43H78NO7P	M+H	752.5588
C40H78NO8P	M+H	732.5537	C41H78NO8P	M+H	744.5537
C47H93N2O6P	M+H	813.6844	C44H78NO8P	M+H	780.5537
C38H76NO8P	M+H	706.5381	C46H78NO8P	M+H	804.5537
C20H35NO2	M+H	322.2740	C48H82NO8P	M+H	832.5850
C20H30O	M+H	287.2369	C25H46NO6P	M+H	488.3135
C43H74NO7P	M+H	748.5275	C21H39O6P	M+H	419.2557
C29H48O3	M+H	445.3676	C36H71NO3	M+H	566.5506
C42H78NO8P	M+H	756.5537	C45H69O8P	M+H	769.4802
C42H82NO7P	M+H	744.5901	C21H40O3	M+H	341.3050
C34H67NO3	M+H	538.5193	C26H52NO6P	M+H	506.3605
C27H42O2	M+H	399.3257	C45H74NO7P	M+H	772.5275
C46H82NO8P	M+H	808.5850	C39H76NO8P	M+H	718.5381
C43H70O4	M+H	651.5346	C22H36O2	M+H	333.2788
C21H39O6P	M+H	419.2557	C47H91N2O6P	M+H	811.6687
C34H65NO3	M+H	536.5037	C43H76NO8P	M+H	766.5381
C21H42O4	M+H	359.3155	C27H51NO4	M+H	454.3890
C44H78NO8P	M+H	780.5537	C44H76NO8P	M+H	778.5381
C39H74NO8P	M+H	716.5224	C23H48NO7P	M+H	482.3241
C44H82NO8P	M+H	784.5850	C39H71O7P	M+H	683.5010
C46H78NO8P	M+H	804.5537	C28H50O5	M+H	467.3731
C48H82NO8P	M+H	832.5850	C25H45NO2	M+H	392.3523
C24H40O4	M+H	393.2999	C44H82NO8P	M+H	784.5850
C39H76NO8P	M+H	718.5381	C39H69O8P	M+H	697.4802
C46H84NO7P	M+H	794.6058	C55H98O6	M+H	855.7436
C21H40O4	M+H	357.2999	C41H80NO8P	M+H	746.5694
C57H100O6	M+H	881.7592	C45H76NO8P	M+H	790.5381
C47H91N2O6P	M+H	811.6687	C45H91N2O6P	M+H	787.6687
C41H74NO7P	M+H	724.5275	C40H80NO7P	M+H	718.5745
C43H78NO7P	M+H	752.5588	C25H49NO4	M+H	428.3734
C45H74NO7P	M+H	772.5275	C20H35NO2	M+H	322.2740
C30H48	M+H	409.3828	C42H84NO8P	M+H	762.6007
C41H78NO8P	M+H	744.5537	C34H65NO3	M+H	536.5037
C39H69O8P	M+H	697.4802	C27H49NO2	M+H	420.3836
C55H98O6	M+H	855.7436	C41H74NO8P	M+H	740.5224
C25H46NO6P	M+H	488.3135	C46H86NO7P	M+H	796.6214
C24H52NO6P	M+H	482.3605	C26H46O6	M+H	455.3367
C22H35NO2	M+H	346.2740	C57H100O6	M+H	881.7592

C48H80NO8P	M+H	830.5694	C40H76NO8P	M+H	730.5381
C55H100O6	M+H	857.7592	C41H78NO7P	M+H	728.5588
C44H76NO8P	M+H	778.5381	C44H86NO7P	M+H	772.6214
C39H70O5	M+H	619.5296	C27H44O3	M+H	417.3363
C53H96O6	M+H	829.7279	C55H96O6	M+H	853.7279
C40H80NO7P	M+H	718.5745	C55H100O6	M+H	857.7592
C41H71O8P	M+H	723.4959	C48H80NO8P	M+H	830.5694
C43H76NO8P	M+H	766.5381	C27H42O3	M+H	415.3206
C28H50O5	M+H	467.3731	C27H46O	M+H	387.3621
C45H76NO8P	M+H	790.5381	C41H71O8P	M+H	723.4959
C59H102O6	M+H	907.7749	C42H76NO8P	M+H	754.5381
C22H36O2	M+H	333.2788	C53H92O7	M+H	841.6915
C46H80NO7P	M+H	790.5745	C47H95N2O6P	M+H	815.7000
C46H86NO7P	M+H	796.6214	C53H96O6	M+H	829.7279
C26H52NO6P	M+H	506.3605	C48H78NO8P	M+H	828.5537
C45H69O8P	M+H	769.4802	C57H98O6	M+H	879.7436
C45H91N2O6P	M+H	787.6687	C47H82NO8P	M+H	820.5850
C36H73NO3	M+H	568.5663	C23H35NO2	M+H	358.2740
C50H82NO8P	M+H	856.5850	C29H50O2	M+H	431.3883
C39H71O7P	M+H	683.5010	C18H33NO	M+H	280.2635
C22H36O4	M+H	365.2686	C44H80NO7P	M+H	766.5745
C27H49NO2	M+H	420.3836	C55H94O6	M+H	851.7123
C47H82NO8P	M+H	820.5850	C21H41NO4	M+H	372.3108
C27H44O3	M+H	417.3363	C43H76NO7P	M+H	750.5432
C26H42O	M+H	371.3308	C44H86NO8P	M+H	788.6163
C44H86NO8P	M+H	788.6163	C44H85NO11S	M+H	836.5916
C55H96O6	M+H	853.7279	C21H40O4	M+H	357.2999
C42H84NO8P	M+H	762.6007	C39H78NO8P	M+H	720.5537
C27H53NO4	M+H	456.4047	C21H37NO2	M+H	336.2897
C25H47NO4	M+H	426.3577	C44H84NO6P	M+H	754.6109
C47H76NO8P	M+H	814.5381	C33H67O7P	M+H	607.4697
C44H84NO6P	M+H	754.6109	C59H102O6	M+H	907.7749
C46H82NO7P	M+H	792.5901	C34H67NO3	M+H	538.5193
C41H74NO8P	M+H	740.5224	C47H80NO8P	M+H	818.5694
C36H71NO3	M+H	566.5506	C28H48O5	M+H	465.3574
C47H73O8P	M+H	797.5115	C37H72NO8P	M+H	690.5068
C37H68O3	M+H	561.5241	C45H78NO7P	M+H	776.5588
C23H36O3	M+H	361.2737	C46H80NO7P	M+H	790.5745
C39H68O5	M+H	617.5139	C57H96O6	M+H	877.7279
C47H95N2O6P	M+H	815.7000	C47H78NO8P	M+H	816.5537
C25H45NO2	M+H	392.3523	C44H84NO7P	M+H	770.6058

C53H92O7	M+H	841.6915	C37H68O3	M+H	561.5241
C57H102O6	M+H	883.7749	C22H39NO2	M+H	350.3053
C40H77NO12S	M+H	796.5239	C43H69O8P	M+H	745.4802
C44H80NO7P	M+H	766.5745	C41H76NO8P	M+H	742.5381
C27H51NO4	M+H	454.3890	C57H102O6	M+H	883.7749
C25H49NO4	M+H	428.3734	C43H80NO8P	M+H	770.5694
C27H46O	M+H	387.3621	C41H69O8P	M+H	721.4802
C41H80NO8P	M+H	746.5694	C59H98O6	M+H	903.7436
C21H37NO2	M+H	336.2897	C50H82NO8P	M+H	856.5850
C44H86NO7P	M+H	772.6214	C23H36O3	M+H	361.2737
C27H42O3	M+H	415.3206	C35H69O7P	M+H	633.4853
C42H76NO8P	M+H	754.5381	C46H82NO7P	M+H	792.5901
C57H98O6	M+H	879.7436	C39H70O5	M+H	619.5296
C40H76NO8P	M+H	730.5381	C42H81NO3	M+H	648.6289
C43H76NO7P	M+H	750.5432	C43H82NO8P	M+H	772.5850
C26H52NO7P	M+H	522.3554	C26H42O	M+H	371.3308
C19H38O4	M+H	331.2842	C39H68O5	M+H	617.5139
C45H78NO7P	M+H	776.5588	C29H48O2	M+H	429.3727
C42H80NO7P	M+H	742.5745	C45H80NO8P	M+H	794.5694
C59H100O6	M+H	905.7592	C26H42O2	M+H	387.3257
C43H82NO8P	M+H	772.5850	C47H73O8P	M+H	797.5115
C35H69O7P	M+H	633.4853	C45H76NO6P	M+H	758.5483
C47H80NO8P	M+H	818.5694	C42H81NO12S	M+H	824.5552
C48H78NO8P	M+H	828.5537	C27H40O2	M+H	397.3101
C42H81NO3	M+H	648.6289	C43H71O8P	M+H	747.4959
C43H69O8P	M+H	745.4802	C39H78NO7P	M+H	704.5588
C43H73O8P	M+H	749.5115	C42H80NO7P	M+H	742.5745
C41H69O8P	M+H	721.4802	C26H40O2	M+H	385.3101
C44H84NO7P	M+H	770.6058	C45H73O8P	M+H	773.5115
C25H42O4	M+H	407.3155	C25H47NO5	M+H	442.3527
C41H76NO8P	M+H	742.5381	C23H45NO5	M+H	416.3370
C47H82O7	M+H	759.6133	C37H69O7P	M+H	657.4853
C28H48O4	M+H	449.3625	C46H86NO8P	M+H	812.6163
C53H94O6	M+H	827.7123	C42H82NO9P	M+H	776.5800
C41H78NO7P	M+H	728.5588	C47H76NO8P	M+H	814.5381
C43H80NO8P	M+H	770.5694	C34H63NO3	M+H	534.4880
C26H46O6	M+H	455.3367	C38H74NO8P	M+H	704.5224
C45H76NO6P	M+H	758.5483	C22H37NO2	M+H	348.2897
C38H77NO3	M+H	596.5976	C37H66O5	M+H	591.4983
C27H40O2	M+H	397.3101	C38H78NO7P	M+H	692.5588
C22H39NO2	M+H	350.3053	C23H46NO7P	M+H	480.3084

C39H78NO7P	M+H	704.5588	C21H22O7	M+H	387.1438
C22H37NO2	M+H	348.2897	C57H104O6	M+H	885.7905
C38H75NO2	M+H	578.5870	C45H82NO8P	M+H	796.5850
C47H74O2	M+H	671.5761	C53H94O6	M+H	827.7123
C59H98O6	M+H	903.7436	C19H40O3	M+H	317.3050
C57H96O6	M+H	877.7279	C19H22O7	M+H	363.1438
C28H60NO6P	M+H	538.4231	C32H50O7	M+H	547.3629
C23H38O4	M+H	379.2842	C37H71O7P	M+H	659.5010
C24H37NO2	M+H	372.2897	C42H86NO7P	M+H	748.6214
C46H86NO8P	M+H	812.6163	C19H20O7	M+H	361.1281
C33H67O7P	M+H	607.4697	C26H52NO7P	M+H	522.3554
C34H63NO3	M+H	534.4880	C41H73O7P	M+H	709.5166
C50H80NO8P	M+H	854.5694	C43H73O8P	M+H	749.5115
C38H78NO7P	M+H	692.5588	C41H71O7P	M+H	707.5010
C37H72NO8P	M+H	690.5068	C40H77NO12S	M+H	796.5239
C54H82O4	M+H	795.6285	C48H86NO8P	M+H	836.6163
C24H50NO8P	M+H	512.3346	C41H76NO7P	M+H	726.5432
C55H94O6	M+H	851.7123	C23H43NO4	M+H	398.3264
C36H64O4	M+H	561.4877	C24H37NO2	M+H	372.2897
C21H41NO4	M+H	372.3108	C23H41O6P	M+H	445.2713
C25H45NO4	M+H	424.3421	C25H45O4P	M+H	441.3128
C45H71O8P	M+H	771.4959	C20H24O7	M+H	377.1594
C42H81NO12S	M+H	824.5552	C46H80NO9P	M+H	822.5643
C48H93O12P	M+H	893.6477	C53H94O7	M+H	843.7072
C41H68O5	M+H	641.5139	C21H24O7	M+H	389.1594
C41H73O7P	M+H	709.5166	C39H81N2O6P	M+H	705.5905
C43H71O8P	M+H	747.4959	C45H71O8P	M+H	771.4959
C39H76NO7P	M+H	702.5432	C35H67O7P	M+H	631.4697
C39H78NO8P	M+H	720.5537	C39H76NO7P	M+H	702.5432
C19H35NO2	M+H	310.2740	C18H20O7	M+H	349.1281
C38H68O4	M+H	589.5190	C43H80NO7P	M+H	754.5745
C20H24O7	M+H	377.1594	C18H18O7	M+H	347.1125
C44H85NO11S	M+H	836.5916	C15H14O7	M+H	307.0812
C45H80NO8P	M+H	794.5694	C45H76NO7P	M+H	774.5432
C20H39NO2	M+H	326.3053	C26H50NO7P	M+H	520.3397
C41H70O5	M+H	643.5296	C50H80NO8P	M+H	854.5694
C57H94O7	M+H	891.7072	C44H74NO8P	M+H	776.5224
C26H56NO6P	M+H	510.3918	C15H10O4	M+H	255.0651
C23H46NO7P	M+H	480.3084	C54H82O4	M+H	795.6285
C35H67O7P	M+H	631.4697	C18H20O6	M+H	333.1332
C29H48O2	M+H	429.3727	C23H41NO2	M+H	364.3210

C45H82NO8P	M+H	796.5850	C39H80NO7P	M+H	706.5745
C18H18O6	M+H	331.1176	C22H28O7	M+H	405.1907
C26H50NO7P	M+H	520.3397	C42H83NO3	M+H	650.6445
C41H76NO7P	M+H	726.5432	C16H12O4	M+H	269.0808
C44H81NO7	M+H	736.6085	C44H76NO9P	M+H	794.5330
C41H71O7P	M+H	707.5010	C39H69O7P	M+H	681.4853
C26H54NO6P	M+H	508.3761	C20H18O8	M+H	387.1074
C45H73O8P	M+H	773.5115	C45H82NO7P	M+H	780.5901
C15H10O4	M+H	255.0651	C18H18O8	M+H	363.1074
C45H67O8P	M+H	767.4646	C41H68O5	M+H	641.5139
C29H50O2	M+H	431.3883	C28H54NO8P	M+H	564.3659
C29H46F2O3	M+H	481.3487	C20H20O7	M+H	373.1281
C23H48NO7P	M+H	482.3241	C45H80NO7P	M+H	778.5745
C39H67O8P	M+H	695.4646	C27H32F6O3	M+H	519.2328
C42H82NO9P	M+H	776.5800	C46H76NO8P	M+H	802.5381
C49H93O14P	M+H	937.6375	C48H97O9P	M+H	849.6943
C45H76NO7P	M+H	774.5432	C23H39NO	M+H	346.3104
C37H69O7P	M+H	657.4853	C27H52NO8P	M+H	550.3503
C42H86NO7P	M+H	748.6214	C59H100O6	M+H	905.7592
C23H38O3	M+H	363.2893	C41H80NO7P	M+H	730.5745
C43H87N2O6P	M+H	759.6374	C41H82NO7P	M+H	732.5901
C27H46O3	M+H	419.3519	C43H87N2O6P	M+H	759.6374
C22H30O	M+H	311.2369	C26H54NO6P	M+H	508.3761
C42H83NO3	M+H	650.6445	C34H69NO3	M+H	540.5350
C51H90O7	M+H	815.6759	C42H81NO11S	M+H	808.5603
C27H49NO4	M+H	452.3734	C37H67O7P	M+H	655.4697
C39H81N2O6P	M+H	705.5905	C29H40O4	M+H	453.2999
C37H71O7P	M+H	659.5010	C31H59O12P	M+H	655.3817
C19H20O7	M+H	361.1281	C48H86NO7P	M+H	820.6214
C19H40O3	M+H	317.3050	C39H74NO7P	M+H	700.5275
C37H76NO7P	M+H	678.5432	C41H72NO8P	M+H	738.5068
C46H78NO10P	M+H	836.5436	C17H14O4	M+H	283.0964
C23H41O6P	M+H	445.2713	C27H45NO	M+H	400.3574
C50H99O10P	M+H	891.7048	C25H50NO7P	M+H	508.3397
C25H20O7	M+H	433.1281	C29H46F2O3	M+H	481.3487
C45H74NO8P	M+H	788.5224	C19H20O8	M+H	377.1231
C18H20O7	M+H	349.1281	C17H18O6	M+H	319.1176
C49H82NO8P	M+H	844.5850	C27H42O4	M+H	431.3155
C41H80NO7P	M+H	730.5745	C53H92O6	M+H	825.6966
C43H80NO7P	M+H	754.5745	C29H49NO4	M+H	476.3734
C48H86NO8P	M+H	836.6163	C17H18O7	M+H	335.1125

C37H66O5	M+H	591.4983	C19H24O7	M+H	365.1594
C21H44O3	M+H	345.3363	C43H82NO7P	M+H	756.5901
C48H84NO7P	M+H	818.6058	C19H35NO2	M+H	310.2740
C27H47NO2	M+H	418.3679	C37H76NO7P	M+H	678.5432
C16H16O7	M+H	321.0968	C60H94O6	M+H	911.7123
C45H78NO6P	M+H	760.5639	C40H74NO8P	M+H	728.5224
C17H12O4	M+H	281.0808	C41H70O5	M+H	643.5296
C27H40O3	M+H	413.3050	C39H72O3	M+H	589.5554
C20H37NO2	M+H	324.2897	C25H48NO7P	M+H	506.3241
C27H42O4	M+H	431.3155	C39H66O5	M+H	615.4983
C25H47NO5	M+H	442.3527	C25H38O4	M+H	403.2842
C52H80NO8P	M+H	878.5694	C40H78NO7P	M+H	716.5588
C45H72NO8P	M+H	786.5068	C53H90O7	M+H	839.6759
C27H52NO8P	M+H	550.3503	C52H80NO8P	M+H	878.5694
C23H39NO	M+H	346.3104	C44H86NO6P	M+H	756.6265
C53H92O6	M+H	825.6966	C27H47NO2	M+H	418.3679
C39H74NO7P	M+H	700.5275	C24H48NO7P	M+H	494.3241
C53H90O7	M+H	839.6759	C21H39NO4	M+H	370.2951
C41H82NO8P	M+H	748.5850	C31H60NO8P	M+H	606.4129
C45H80NO7P	M+H	778.5745	C46H93N2O6P	M+H	801.6844
C36H68O4	M+H	565.5190	C22H30O	M+H	311.2369
C26H42O2	M+H	387.3257	C45H72NO8P	M+H	786.5068
C17H28O8	M+H	361.1857	C48H84NO7P	M+H	818.6058
C27H45NO2	M+H	416.3523	C48H93O12P	M+H	893.6477
C23H43NO5	M+H	414.3214	C41H66O3	M+H	607.5084
C26H40O2	M+H	385.3101	C48H77O10P	M+H	845.5327
C49H84NO8P	M+H	846.6007	C28H36N2O7	M+H	513.2595
C18H20O6	M+H	333.1332	C49H82NO8P	M+H	844.5850
C24H48NO7P	M+H	494.3241	C43H72NO8P	M+H	762.5068
C41H82NO7P	M+H	732.5901	C47H82O7	M+H	759.6133
C27H45NO	M+H	400.3574	C38H77N2O6P	M+H	689.5592
C57H104O6	M+H	885.7905	C23H40NO7P	M+H	474.2615
C27H43NO3	M+H	430.3315	C21H35NO	M+H	318.2791
C33H58O4	M+H	519.4407	C16H24O8	M+H	345.1544
C39H66O5	M+H	615.4983	C20H37NO2	M+H	324.2897
C47H93O8P	M+H	817.6680	C20H22O7	M+H	375.1438
C39H80NO7P	M+H	706.5745	C43H84NO8P	M+H	774.6007
C19H22O7	M+H	363.1438	C18H18O6	M+H	331.1176
C57H94O6	M+H	875.7123	C49H84NO8P	M+H	846.6007
C43H82NO7P	M+H	756.5901	C20H26O7	M+H	379.1751
C28H52NO7P	M+H	546.3554	C29H56NO8P	M+H	578.3816

C23H41NO2	M+H	364.3210	C25H43NO4	M+H	422.3264
C53H94O7	M+H	843.7072	C46H78NO10P	M+H	836.5436
C42H81NO11S	M+H	808.5603	C23H44NO7P	M+H	478.2928
C44H81NO8	M+H	752.6035	C45H74NO8P	M+H	788.5224
C23H43NO4	M+H	398.3264	C24H39NO2	M+H	374.3053
C28H36N2O7	M+H	513.2595	C16H16O6	M+H	305.1019
C20H22O7	M+H	375.1438	C55H102O6	M+H	859.7749
C48H86NO7P	M+H	820.6214	C24H40O4	M+H	393.2999
C34H69NO3	M+H	540.5350	C27H40O3	M+H	413.3050
C20H26O7	M+H	379.1751			
C45H82NO7P	M+H	780.5901			
C57H100O7	M+H	897.7541			
C40H74NO8P	M+H	728.5224			
C40H75NO8	M+H	698.5565			
C39H72O3	M+H	589.5554			
C44H78NO10P	M+H	812.5436			
C44H76NO9P	M+H	794.5330			
C44H86NO6P	M+H	756.6265			
C19H24O7	M+H	365.1594			
C55H96O7	M+H	869.7228			
C37H64O5	M+H	589.4826			
C50H84NO8P	M+H	858.6007			
C24H47NO4	M+H	414.3577			
C23H34O2	M+H	343.2631			
C22H22O11	M+H	463.1234			
C15H12O4	M+H	257.0808			
C17H18O7	M+H	335.1125			
C16H16O6	M+H	305.1019			
C34H64O4	M+H	537.4877			
C40H78NO7P	M+H	716.5588			
C41H66O5	M+H	639.4983			
C43H72O5	M+H	669.5452			
C37H73O7P	M+H	661.5166			
C43H84NO8P	M+H	774.6007			
C44H79O9P	M+H	783.5534			
C50H78NO8P	M+H	852.5537			
C33H65O7P	M+H	605.4540			
C50H97O12P	M+H	921.6790			
C16H26O5	M+H	299.1853			
C20H32O4	M+H	337.2373			
C38H77N2O6P	M+H	689.5592			

C30H38N2O7	M+H	539.2751
C46H80NO6P	M+H	774.5796
C23H44NO7P	M+H	478.2928
C53H98O6	M+H	831.7436
C16H12O4	M+H	269.0808
C48H90NO7P	M+H	824.6527
C25H38O4	M+H	403.2842
C25H48NO7P	M+H	506.3241
C50H86NO8P	M+H	860.6163
C47H78NO8P	M+H	816.5537
C18H14O4	M+H	295.0964
C38H74NO8P	M+H	704.5224
C42H76NO9P	M+H	770.5330
C21H22O7	M+H	387.1438
C37H70O5	M+H	595.5296
C31H41NO3	M+H	476.3159
C27H32F6O3	M+H	519.2328
C34H66O2	M+H	507.5135
C55H102O6	M+H	859.7749
C17H14O4	M+H	283.0964
C37H68O5	M+H	593.5139
C28H54NO8P	M+H	564.3659
C18H18O7	M+H	347.1125
C39H69O7P	M+H	681.4853
C47H84NO8P	M+H	822.6007
C43H72NO7P	M+H	746.5119
C47H91O12P	M+H	879.6321
C21H43O6P	M+H	423.2870
C46H81O10P	M+H	825.5640
C24H40NO9P	M+H	518.2513
C27H47NO	M+H	402.3730
C42H78NO7P	M+H	740.5588
C59H96O6	M+H	901.7279
C43H72NO8P	M+H	762.5068
C26H45NO	M+H	388.3574
C42H76NO7P	M+H	738.5432
C23H45NO5	M+H	416.3370
C44H84NO9P	M+H	802.5956
C18H37NO4S	M+H	364.2516
C55H92O6	M+H	849.6966
C43H70NO7P	M+H	744.4962

C46H76NO7P	M+H	786.5432
C37H64N2O6	M+H	633.4837
C31H54O4	M+H	491.4094
C46H93N2O6P	M+H	801.6844
C36H71O8P	M+H	663.4959
C36H72NO6P	M+H	646.5170
C23H35NO2	M+H	358.2740
C36H67NO8	M+H	642.4939
C21H24O7	M+H	389.1594
C41H66O3	M+H	607.5084
C40H78NO9P	M+H	748.5487
C46H88NO8P	M+H	814.6320
C45H85O10P	M+H	817.5953
C37H67O7P	M+H	655.4697
C43H66O5	M+H	663.4983
C16H10O5	M+H	283.0601
C30H58NO8P	M+H	592.3972
C26H32O4	M+H	409.2373
C17H10O4	M+H	279.0651
C38H76NO9P	M+H	722.5330
C21H20O11	M+H	449.1078
C29H49NO4	M+H	476.3734
C27H38O	M+H	379.2995
C42H80NO9P	M+H	774.5643
C25H50NO7P	M+H	508.3397
C15H31O7P	M+H	355.1880
C43H70O5	M+H	667.5296
C48H77O10P	M+H	845.5327
C39H67O7P	M+H	679.4697
C38H75NO3	M+H	594.5819

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