Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM082319\

Quantitation Report (Not Reviewed)

Data File : BM022310.D
Acq On : 25 Aug 2019 02:20
Operator : HP/JU
Sample : K4373-19
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AF8

Quant Time: Aug 26 01:35:52 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 26 01:32:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	47338	20.00	ng/ul	0.00
18) Naphthalene-d8	10.30	136	8207	20.00	ng/ul	-0.03
35) Acenaphthene-d10	14.22	164	163369	20.00	ng/ul	0.01
61) Phenanthrene-d10	16.99	188	435943	20.00	ng/ul	0.01
77) Chrysene-d12	21.19	240	273279	20.00	ng/ul	0.01
85) Perylene-d12	23.39	264	257002	20.00	ng/ul	0.01
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.13	96	4456	4.21	ng/uL	0.00
5) Phenol-d5	6.75	99	27953	6.84	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.92	67	65699	27.65	ng/ul	0.00
9) 2-Chlorophenol-d4	7.09	132	80176	24.30	ng/ul	0.00
13) 4-Methylphenol-d8	8.28	113	54657	15.44	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	54707	894.01	ng/ul	0.01
22) 2-Nitrophenol-d4	9.45	143	61988	870.32	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	9.99	165	114871	792.30	ng/ul	0.03
29) 4-Chloroaniline-d4	10.45	131	16786	95.19	ng/ul	-0.05
43) Dimethylphthalate-d6	13.67	166	426930	29.67	ng/ul	0.04
46) Acenaphthylene-d8	13.91	160	462093	29.82	ng/ul	0.01
51) 4-Nitrophenol-d4	14.52	143	41795	19.61	ng/ul	0.05
57) Fluorene-d10	15.22	176	379582	31.81	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.42	200	41674	12.39	ng/ul	0.04
70) Anthracene-d10	17.09	188	1095049	47.44	ng/ul	0.02
78) Pyrene-d10	19.39	212	688507	48.48	ng/ul	0.01
89) Benzo(a)pyrene-d12	23.25	264	479449	33.96	ng/ul	0.02
Target Compounds						Qvalue
4) Benzaldehyde	6.69	77	12030	5.116	ng/ul#	1
6) Phenol	6.78	94	16208	3.705	ng/ul#	80
8) Bis(2-Chloroethyl)ether	6.92	93	4193	1.317	ng/ul#	48
10) 2-Chlorophenol	7.12	128	19997	5.840	ng/ul	95
11) 2-Methylphenol	8.02	108	322675	93.662	ng/ul	96
14) Acetophenone	8.42	105	17265	2.820	ng/ul#	82
16) 4-Methylphenol	8.35	108	110415	29.150	ng/ul	99
20) Nitrobenzene	8.71	77	11533	64.000	ng/ul#	11
21) Isophorone	9.09	82	1458	4.439	ng/ul#	1
24) 2,4-Dimethylphenol	9.56	107	1475404	8042.083	ng/ul	96
25) Bis(2-Chloroethoxy)methane	9.73	93	2491	14.048	ng/ul#	1
27) 2,4-Dichlorophenol	10.06	162	54369	370.107	ng/ul#	94
28) Naphthalene	10.26	128	680559	1502.623	ng/ul#	79
30) 4-Chloroaniline	10.48	127	10674009	58155.261	ng/ul#	14
32) Caprolactam	11.37	113	122	2.676	ng/ul#	1
33) 4-Chloro-3-methylphenol	11.62	107	364	2.244	ng/ul#	1
34) 2-Methylnaphthalene	12.02	142	2560154	7336.517	ng/ul	96
38) 2,4,6-Trichlorophenol	12.64	196	4534	1.195	ng/ul	89
40) 1,1'-Biphenyl	13.04	154	1414963	106.426	ng/ul	99
44) Dimethylphthalate	13.72	163	54609	3.730	ng/ul	97
47) Acenaphthylene	13.93	152	63293	3.939	ng/ul#	65
49) Acenaphthene	14.32	153	14370121	1259.595	ng/ul	96
53) Dibenzofuran	14.64	168	10079296	593.181	ng/ul	87

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM082319\

Quantitation Report (Not Reviewed)

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Acq On : 25 Aug 2019 02:20
Operator : HP/JU
Sample : K4373-19
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AF8

Quant Time: Aug 26 01:35:52 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 26 01:32:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) 2,4-Dinitrotoluene	14.63	165	6171	1.420	ng/ul#	1
55) 2,3,4,6-Tetrachlorophenol	14.78	232	134874	32.054	ng/ul	88
56) Diethylphthalate	14.98	149	21525	1.371	ng/ul	93
58) Fluorene	15.30	166	7709748	538.701	ng/ul	98
63) 4,6-Dinitro-2-methylphenol	15.42	198	4604	1.276	ng/ul#	1
68) Pentachlorophenol	16.65	266	92496	22.021	ng/ul	97
69) Phenanthrene	17.05	178	11490262	440.575	ng/ul	96
71) Anthracene	17.12	178	576846	21.255	ng/ul	97
74) Carbazole	17.44	167	9686626	395.164	ng/ul	97
76) Fluoranthene	19.06	202	799170	20.334	ng/ul	98
79) Pyrene	19.42	202	443668	25.082	ng/ul	98
82) Benzo(a)anthracene	21.17	228	32174	1.564	ng/ul#	91
84) Chrysene	21.23	228	26086	1.356	ng/ul#	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM082319\

Quantitation Report (Not Reviewed)

Data File : BM022310.D
Acq On : 25 Aug 2019 02:20
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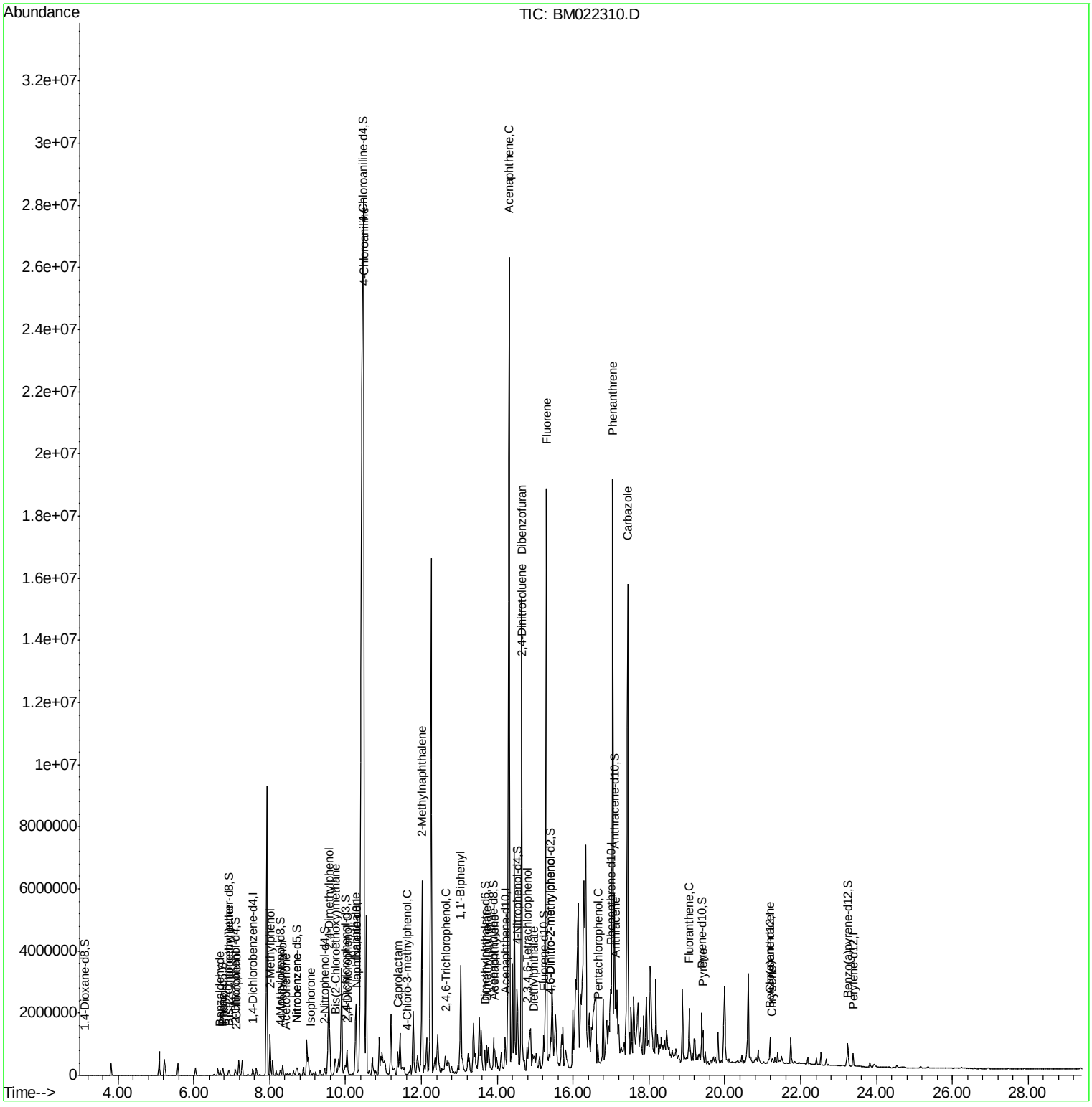
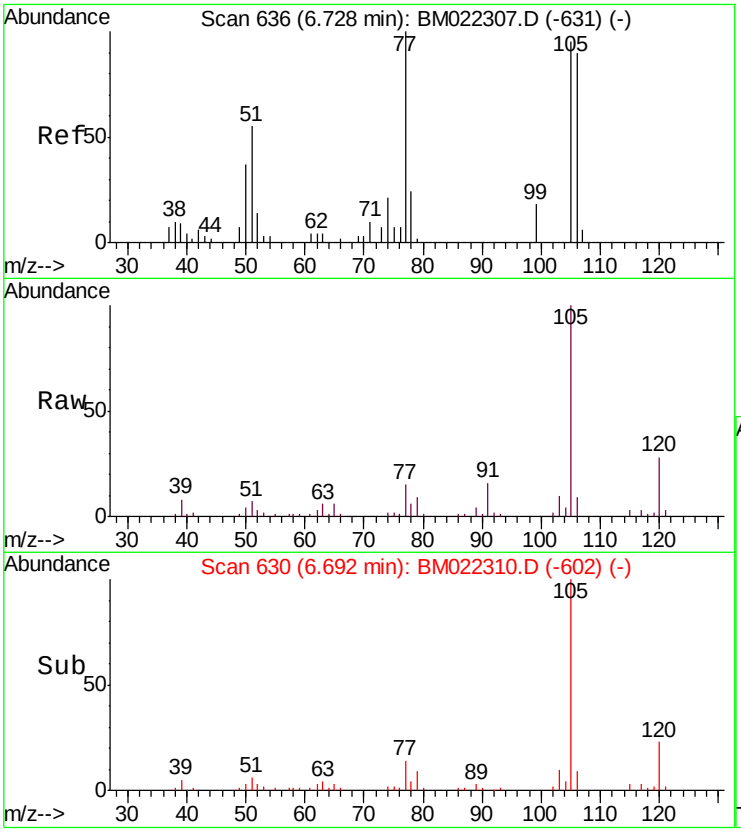
Sample : K4373-19
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF8

Quant Time: Aug 26 01:35:52 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 26 01:32:10 2019
Response via : Initial Calibration



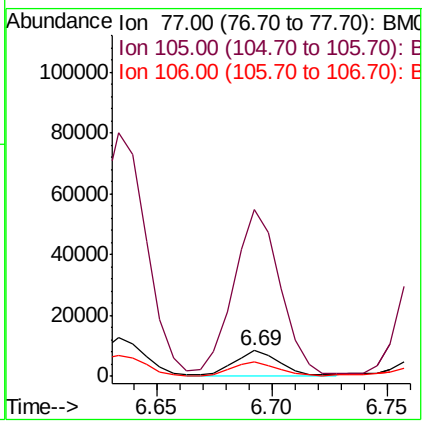


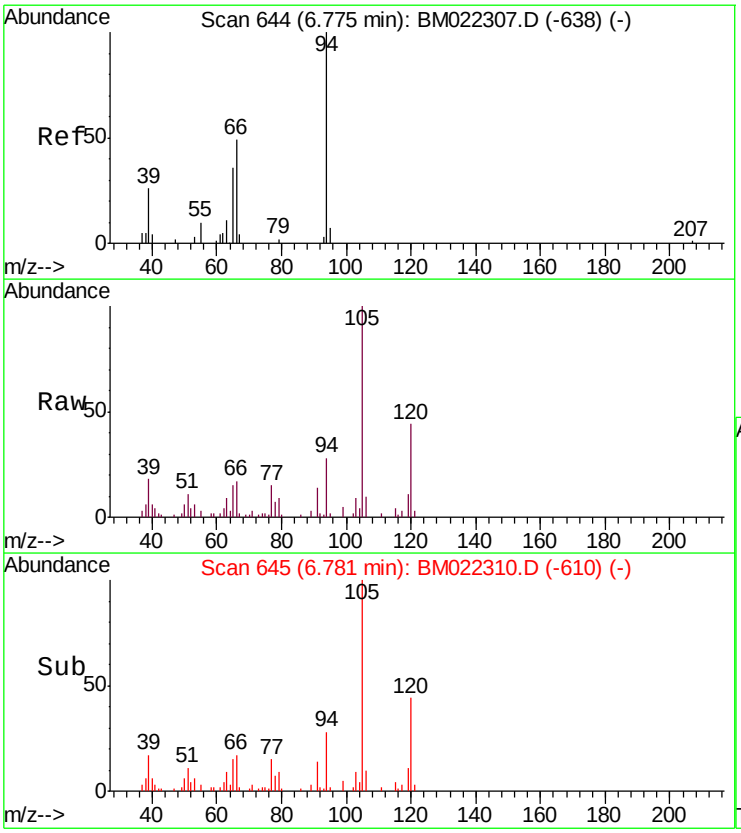
#4
Benzaldehyde
Concen: 5.116 ng/ul
RT: 6.69 min Scan# 630
Delta R.T. -0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion: 77 Resp: 12030

Ion	Ratio	Lower	Upper
77	100		
105	653.5	71.7	107.5#
106	58.1	71.7	107.5#

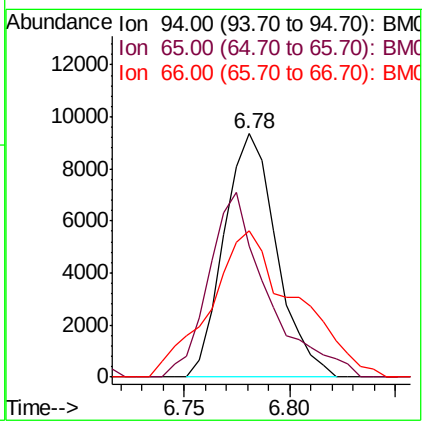


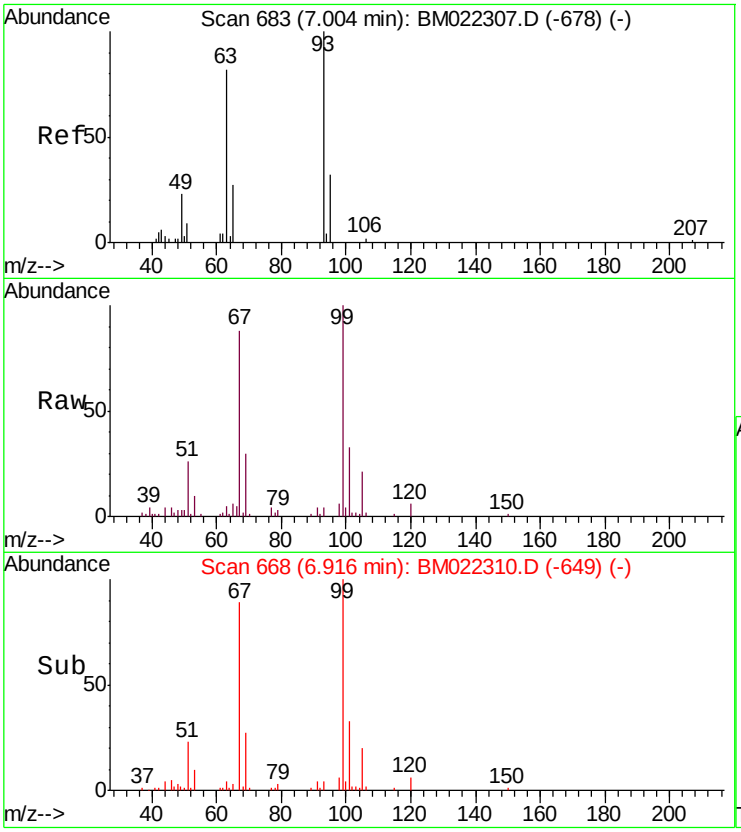


#6
Phenol
Concen: 3.705 ng/ul
RT: 6.78 min Scan# 645
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion: 94 Resp: 16208

Ion	Ratio	Lower	Upper
94	100		
65	54.0	29.2	43.8#
66	60.2	40.6	60.8



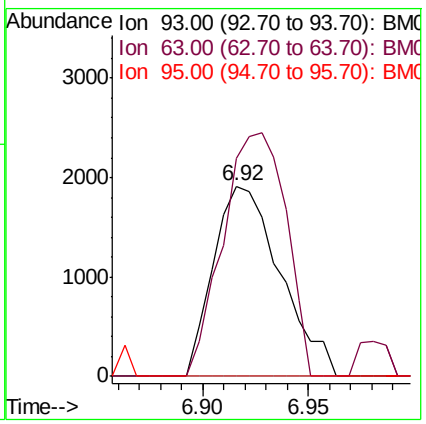


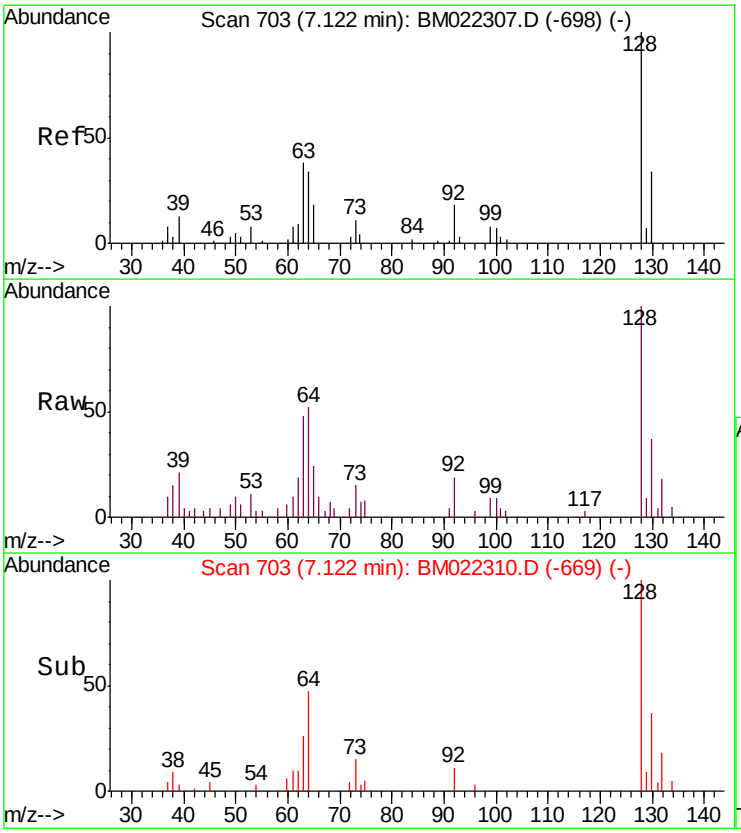
#8
Bis(2-Chloroethyl)ether
Concen: 1.317 ng/ul
RT: 6.92 min Scan# 668
Delta R.T. -0.09 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion: 93 Resp: 4193

Ion	Ratio	Lower	Upper
93	100		
63	114.8	58.9	88.3#
95	0.0	25.8	38.6#

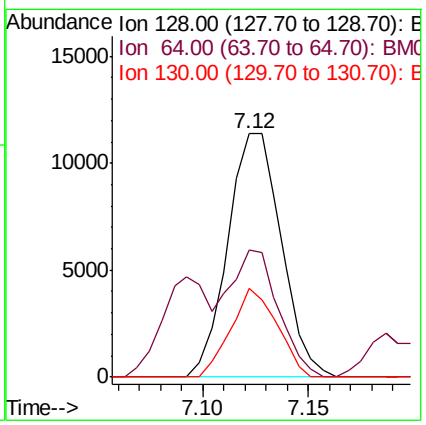


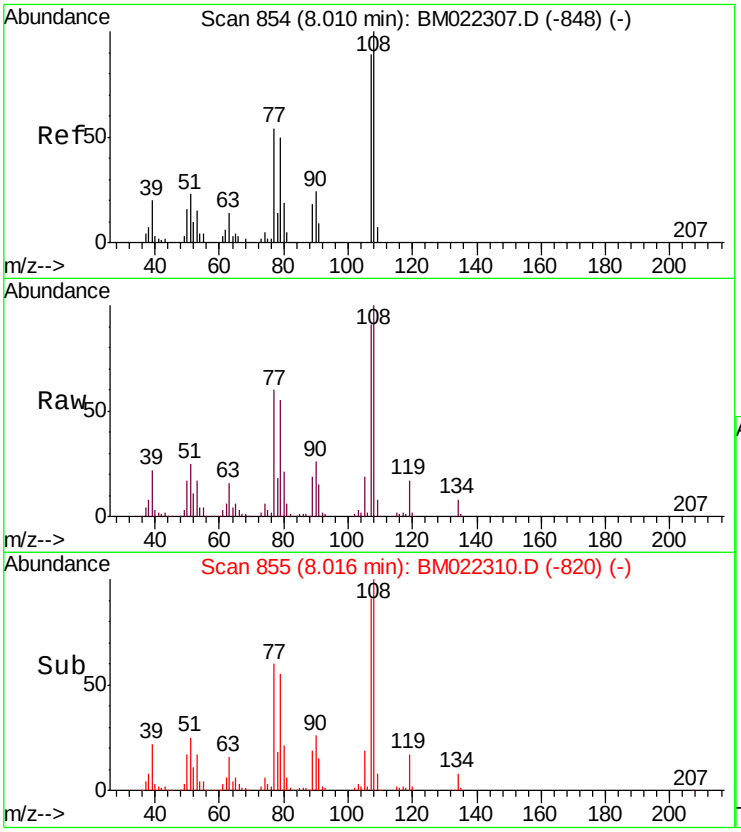


#10
2-Chlorophenol
Concen: 5.840 ng/ul
RT: 7.12 min Scan# 703
Delta R.T. -0.00 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:128 Resp: 19997

Ion	Ratio	Lower	Upper
128	100		
64	52.1	38.6	57.8
130	36.7	27.0	40.6



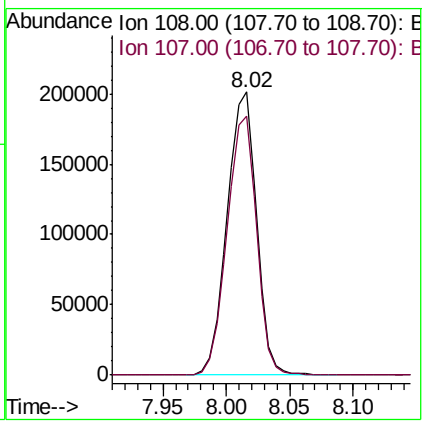


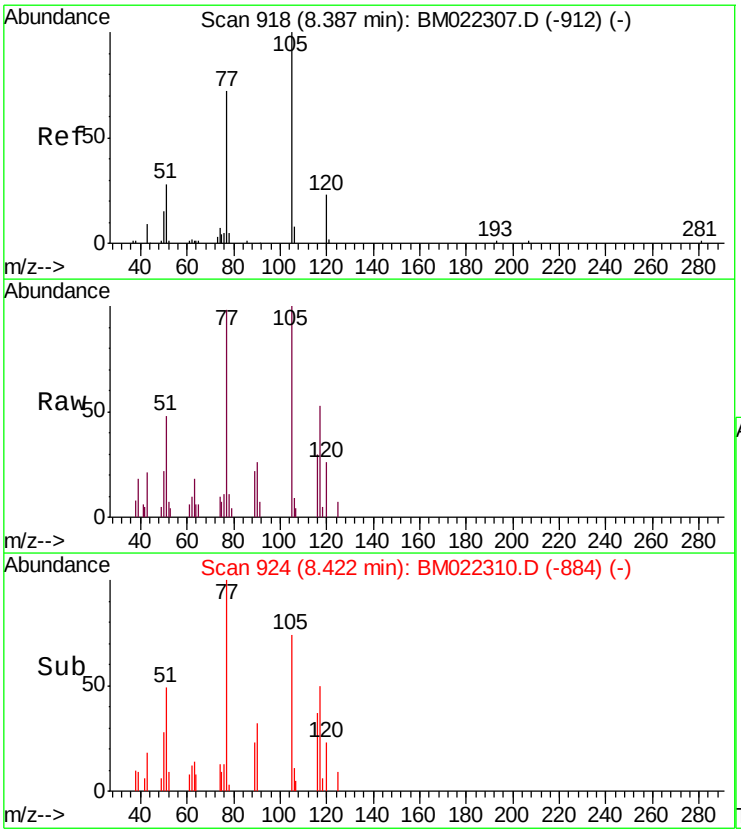
#11
2-Methylphenol
Concen: 93.662 ng/ul
RT: 8.02 min Scan# 855
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:108 Resp: 322675

Ion	Ratio	Lower	Upper
108	100		
107	91.3	70.1	105.1

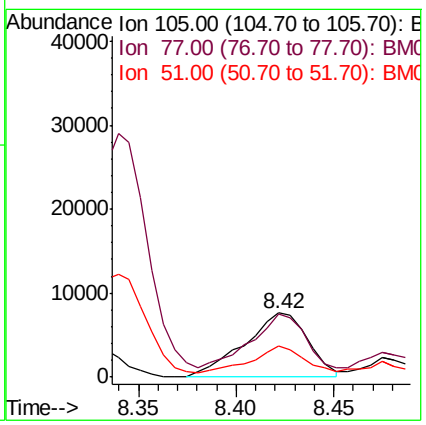


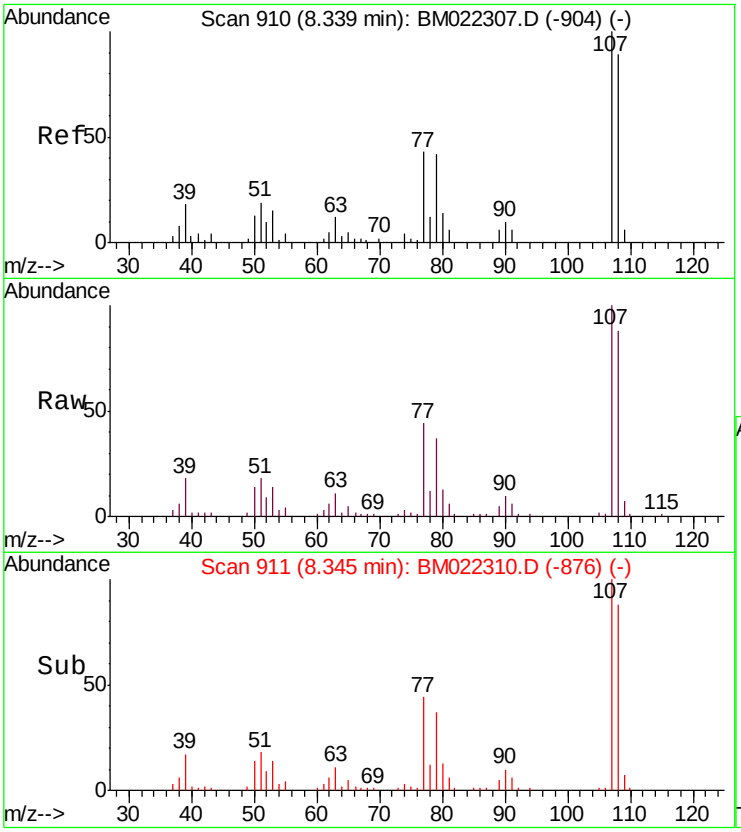


#14
Acetophenone
Concen: 2.820 ng/ul
RT: 8.42 min Scan# 924
Delta R.T. 0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:105 Resp: 17265

Ion	Ratio	Lower	Upper
105	100		
77	98.3	68.4	102.6
51	47.9	25.0	37.4#



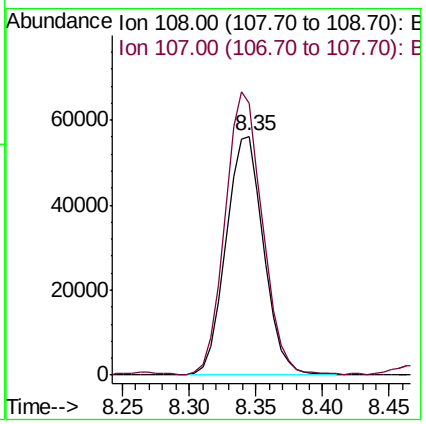


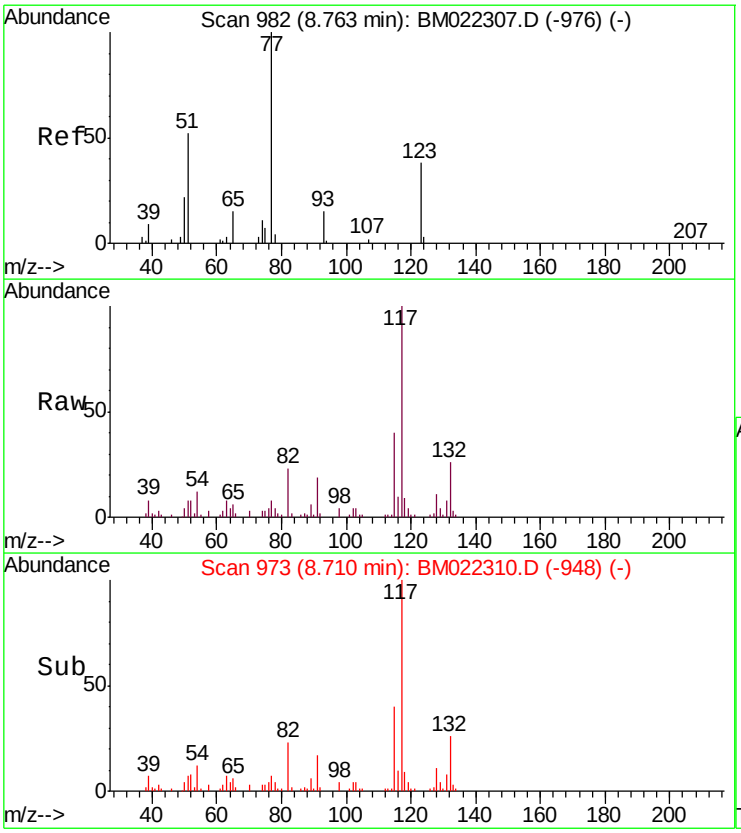
#16
4-Methylphenol
Concen: 29.150 ng/ul
RT: 8.35 min Scan# 911
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:108 Resp: 110415

Ion	Ratio	Lower	Upper
108	100		
107	114.1	90.8	136.2

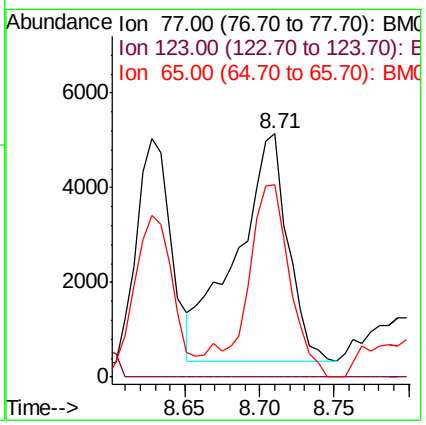


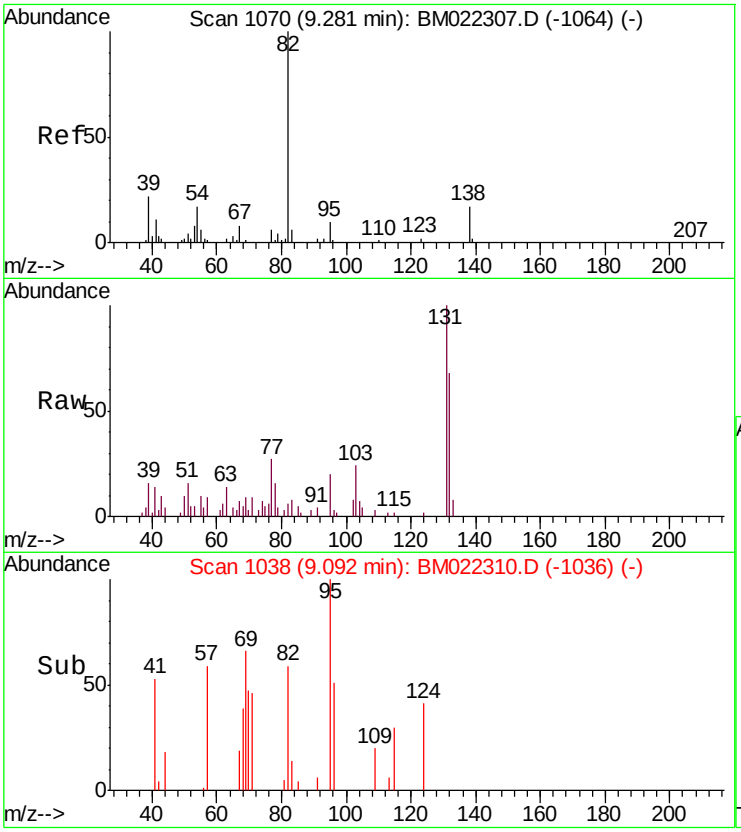


#20
Nitrobenzene
Concen: 64.000 ng/ul
RT: 8.71 min Scan# 973
Delta R.T. -0.05 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion: 77 Resp: 11533

Ion	Ratio	Lower	Upper
77	100		
123	0.0	31.0	46.4#
65	79.2	12.2	18.2#



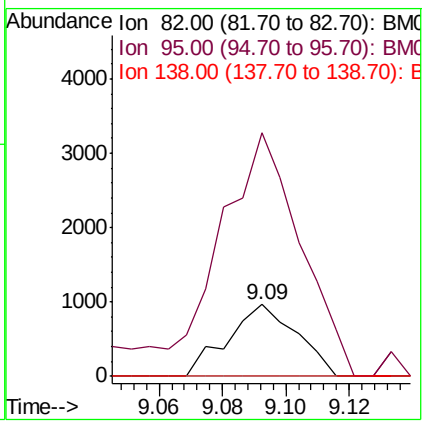


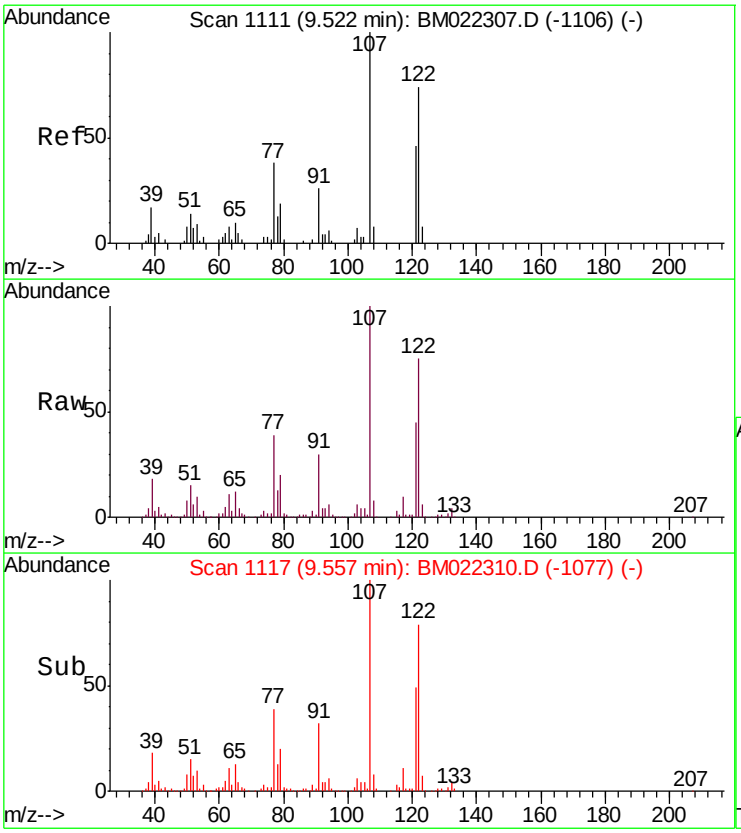
#21
Isophorone
Concen: 4.439 ng/ul
RT: 9.09 min Scan# 1038
Delta R.T. -0.19 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion: 82 Resp: 1458

Ion	Ratio	Lower	Upper
82	100		
95	340.0	7.2	10.8#
138	0.0	13.8	20.6#

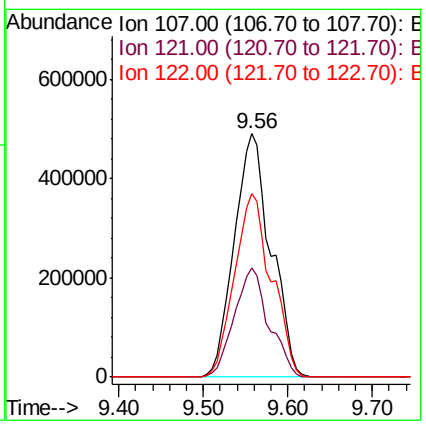


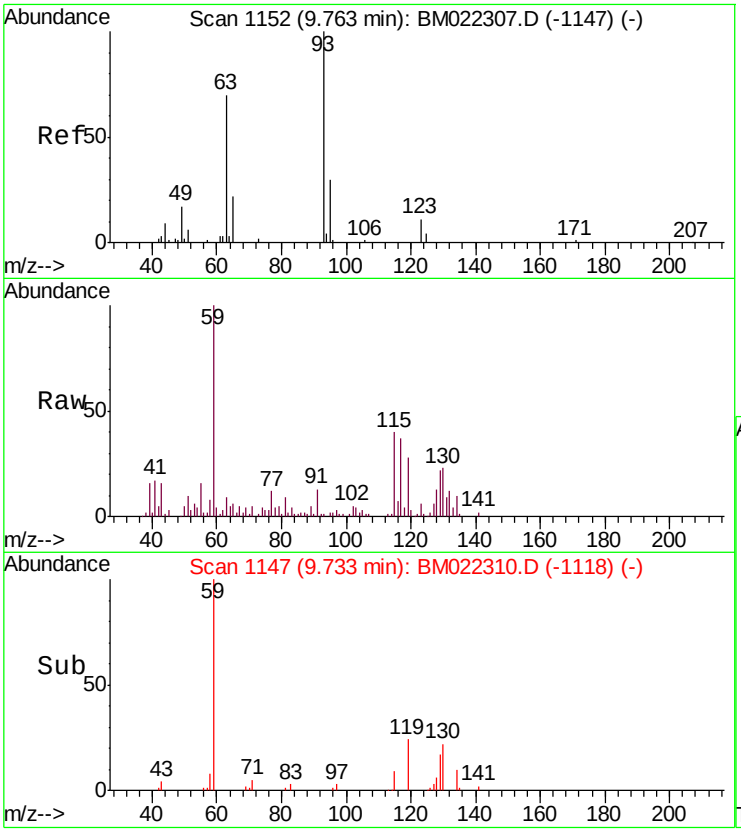


#24
2,4-Dimethylphenol
Concen: 8042.083 ng/ul
RT: 9.56 min Scan# 1117
Delta R.T. 0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:107 Resp: 1475404

Ion	Ratio	Lower	Upper
107	100		
121	44.9	33.6	50.4
122	75.1	58.0	87.0



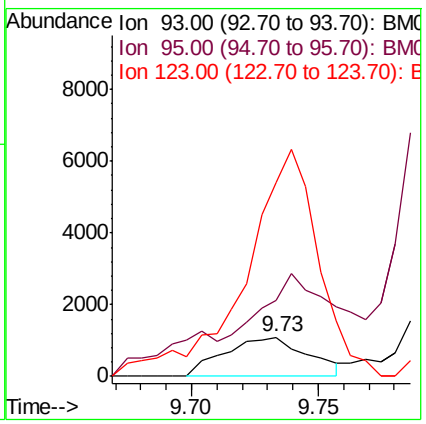


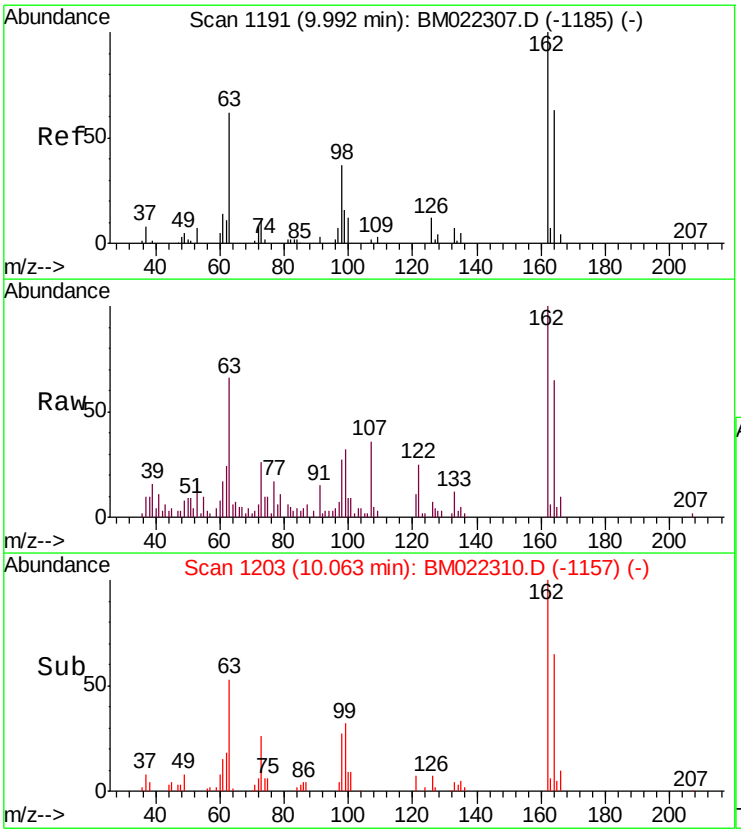
#25
Bis(2-Chloroethoxy)methane
Concen: 14.048 ng/ul
RT: 9.73 min Scan# 1147
Delta R.T. -0.03 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion: 93 Resp: 2491

Ion	Ratio	Lower	Upper
93	100		
95	193.0	26.5	39.7#
123	493.4	8.4	12.6#

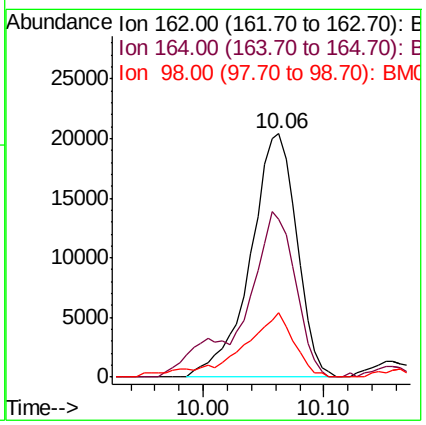


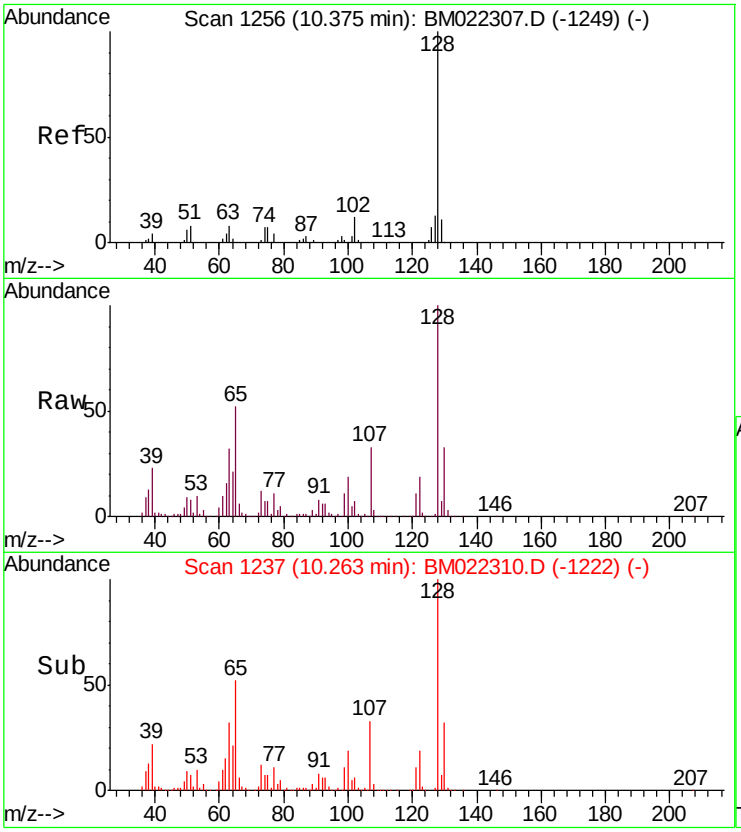


#27
2,4-Dichlorophenol
Concen: 370.107 ng/ul
RT: 10.06 min Scan# 1203
Delta R.T. 0.07 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:162 Resp: 54369

Ion	Ratio	Lower	Upper
162	100		
164	65.0	52.1	78.1
98	26.6	29.2	43.8#



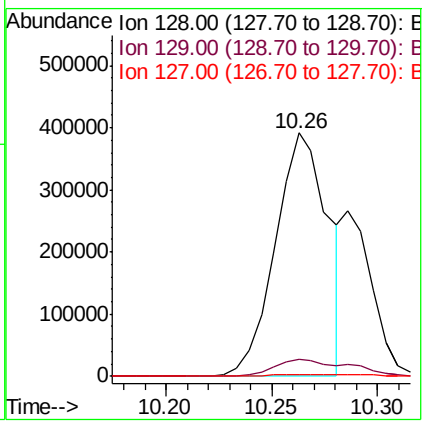


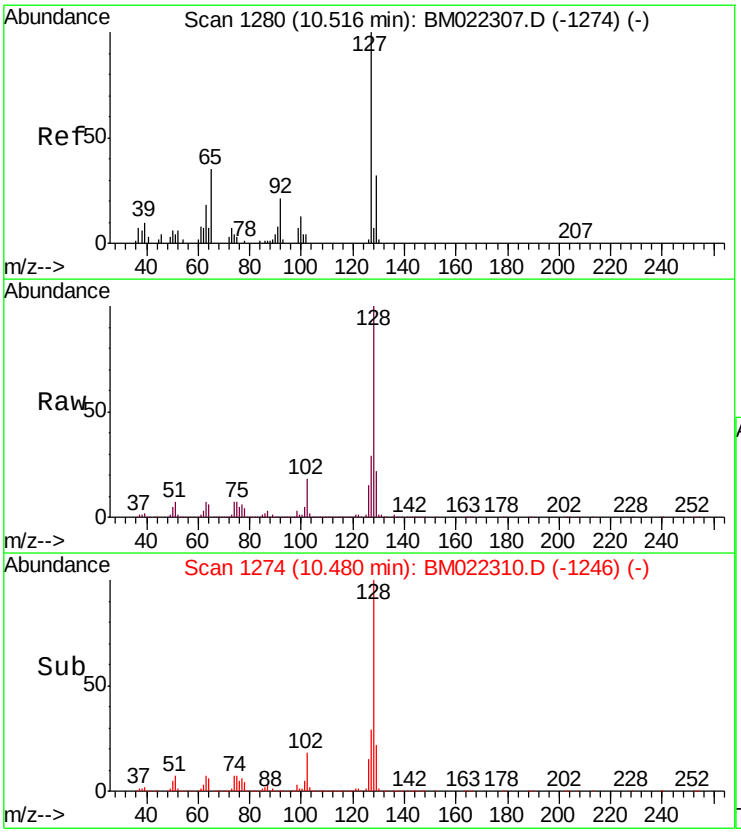
#28
Naphthalene
Concen: 1502.623 ng/ul
RT: 10.26 min Scan# 1237
Delta R.T. -0.11 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:128 Resp: 680559

Ion	Ratio	Lower	Upper
128	100		
129	7.2	8.6	13.0#
127	0.8	10.4	15.6#

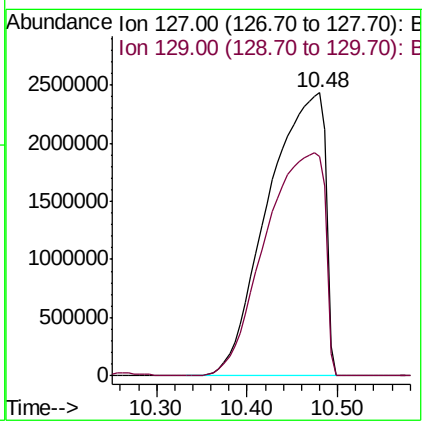


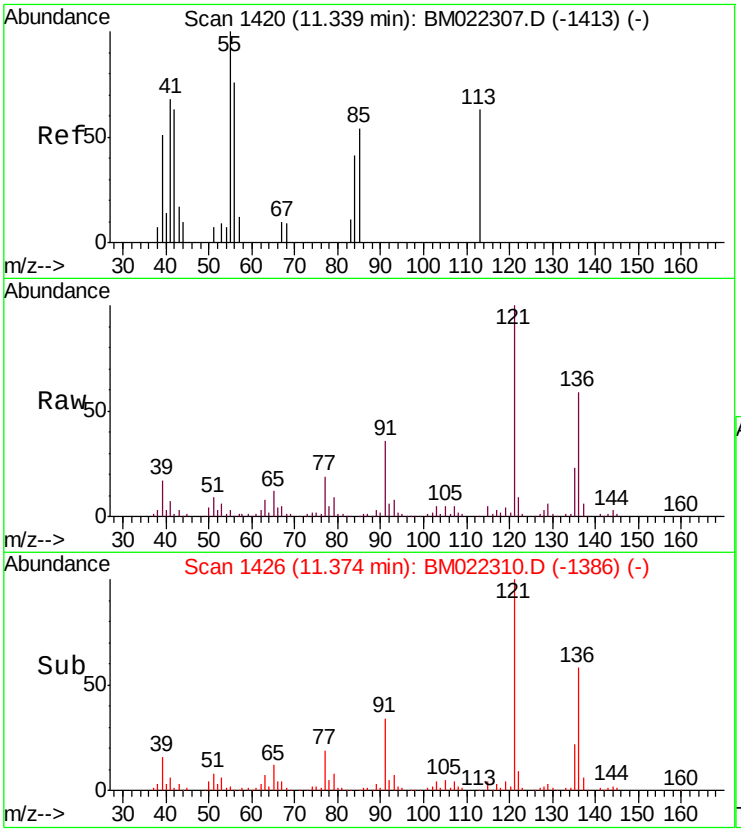


#30
4-Chloroaniline
Concen: 58155.261 ng/ul
RT: 10.48 min Scan# 1274
Delta R.T. -0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:127 Resp:10674009

Ion	Ratio	Lower	Upper
127	100		
129	77.3	24.2	36.4#



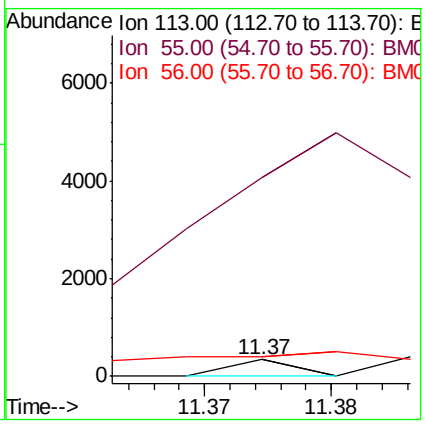


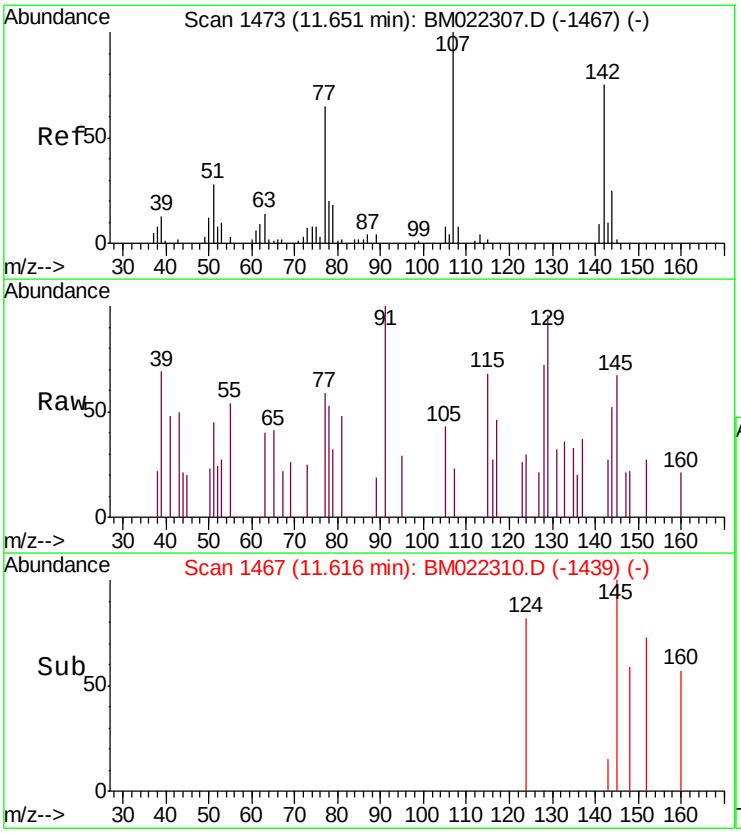
#32
Caprolactam
Concen: 2.676 ng/ul
RT: 11.37 min Scan# 1426
Delta R.T. 0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:113 Resp: 122

Ion	Ratio	Lower	Upper
113	100		
55	1172.3	111.6	167.4#
56	115.9	104.6	157.0

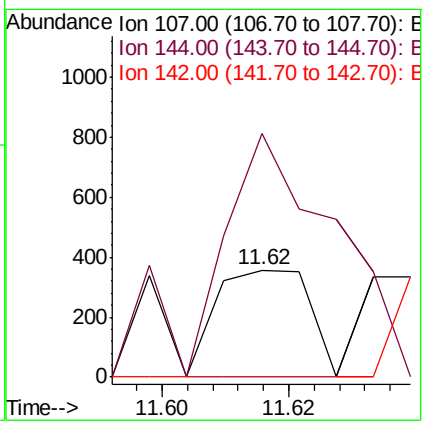


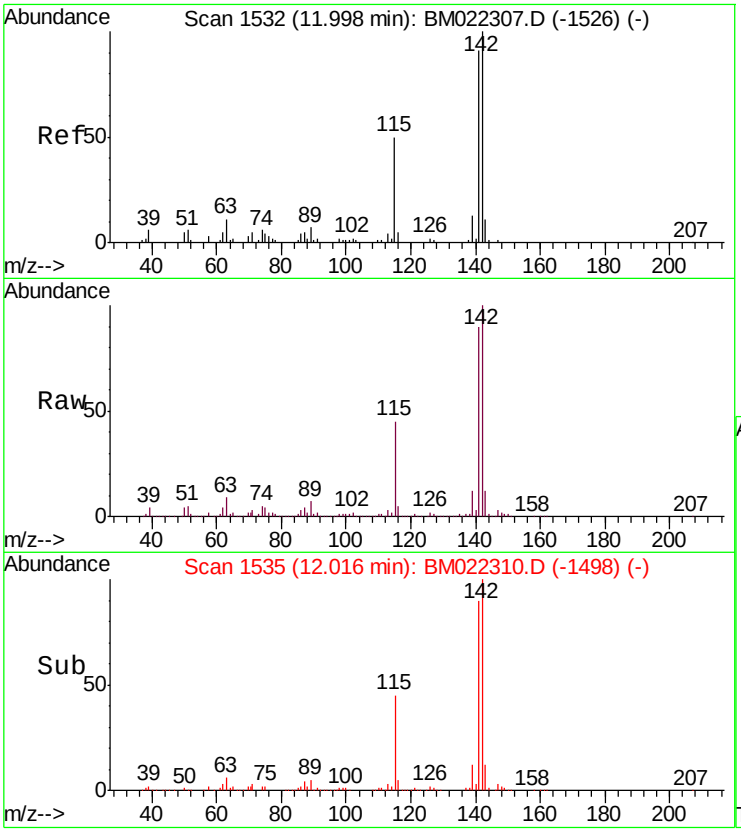


#33
4-Chloro-3-methylphenol
Concen: 2.244 ng/ul
RT: 11.62 min Scan# 1467
Delta R.T. -0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:107 Resp: 364

Ion	Ratio	Lower	Upper
107	100		
144	228.1	19.8	29.8#
142	0.0	61.5	92.3#



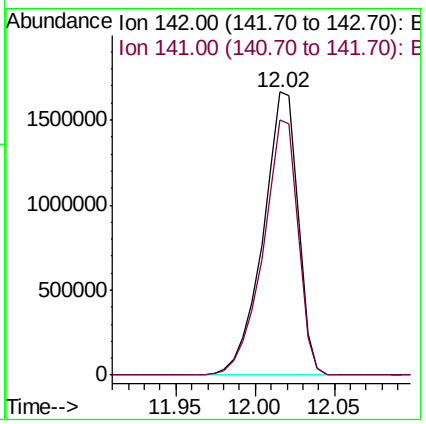


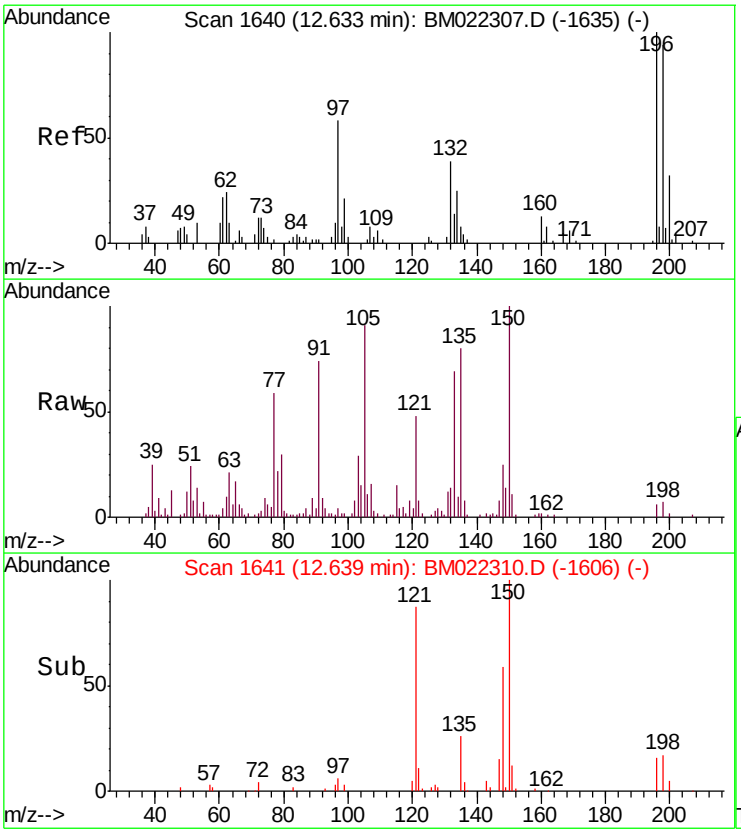
#34
2-Methylnaphthalene
Concen: 7336.517 ng/ul
RT: 12.02 min Scan# 1535
Delta R.T. 0.02 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:142 Resp: 2560154

Ion	Ratio	Lower	Upper
142	100		
141	90.1	75.1	112.7

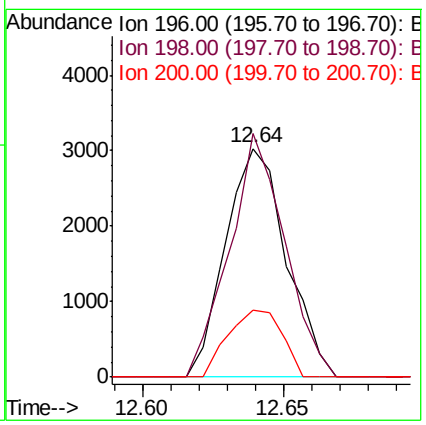


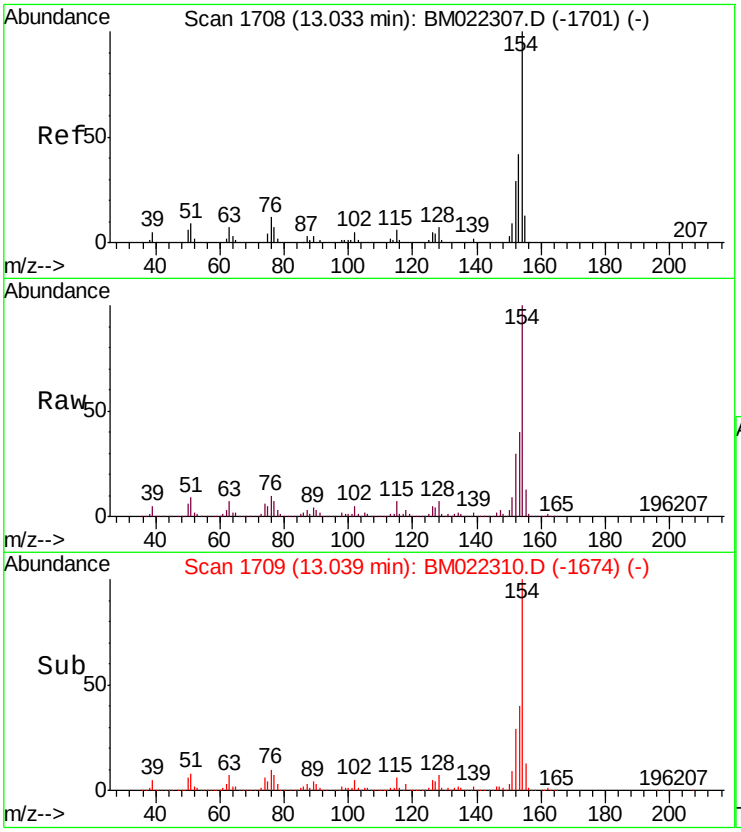


#38
2,4,6-Trichlorophenol
Concen: 1.195 ng/ul
RT: 12.64 min Scan# 1641
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:196 Resp: 4534

Ion	Ratio	Lower	Upper
196	100		
198	106.4	74.6	112.0
200	29.5	25.8	38.6



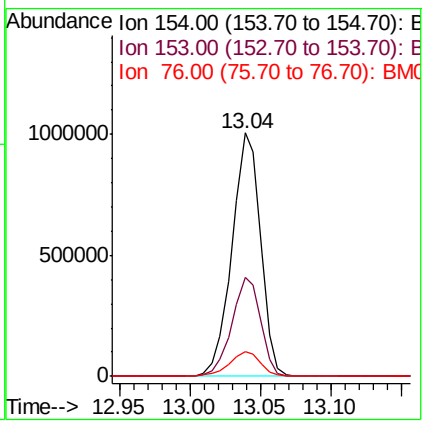


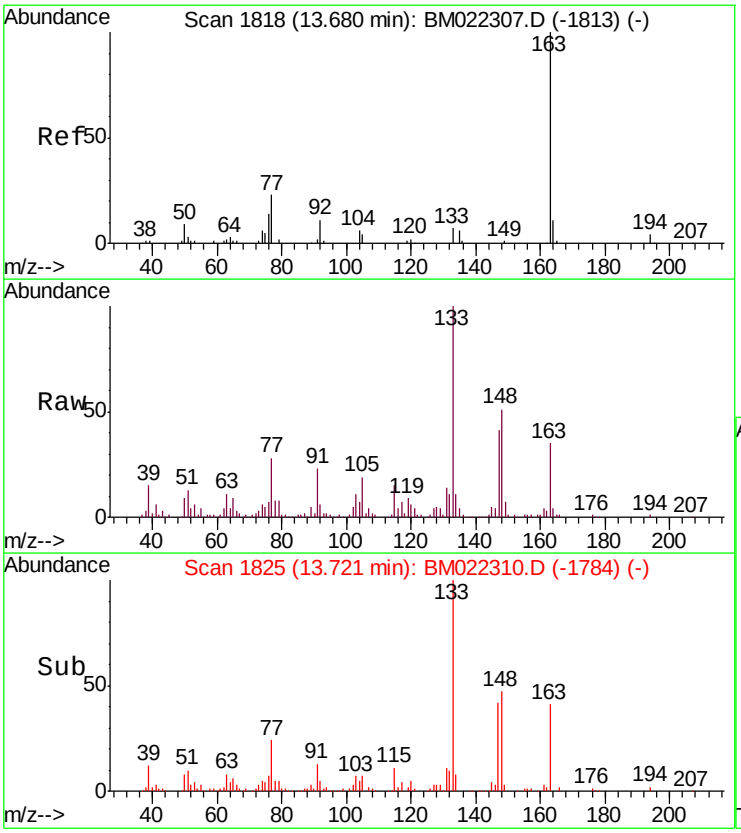
#40
1,1'-Biphenyl
Concen: 106.426 ng/ul
RT: 13.04 min Scan# 1709
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:154 Resp: 1414963

Ion	Ratio	Lower	Upper
154	100		
153	40.5	32.5	48.7
76	10.0	9.2	13.8

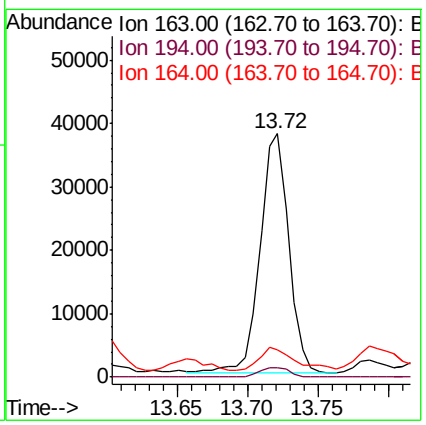


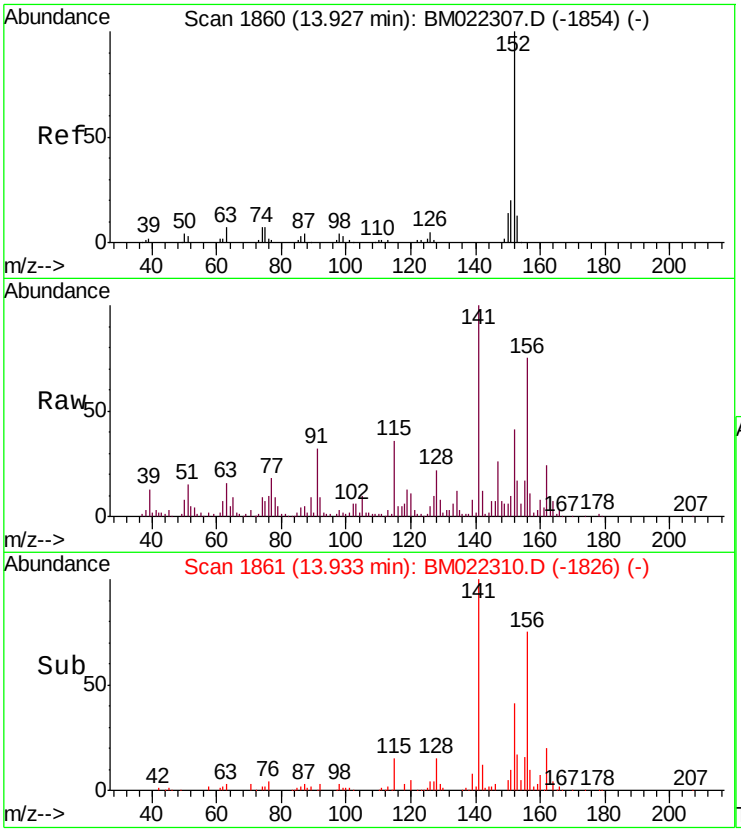


#44
Dimethylphthalate
Concen: 3.730 ng/ul
RT: 13.72 min Scan# 1825
Delta R.T. 0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:163 Resp: 54609

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	11.2	7.8	11.8



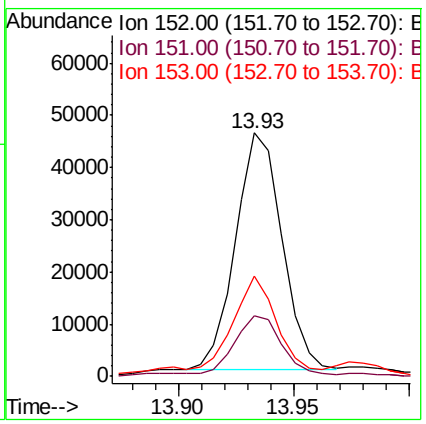


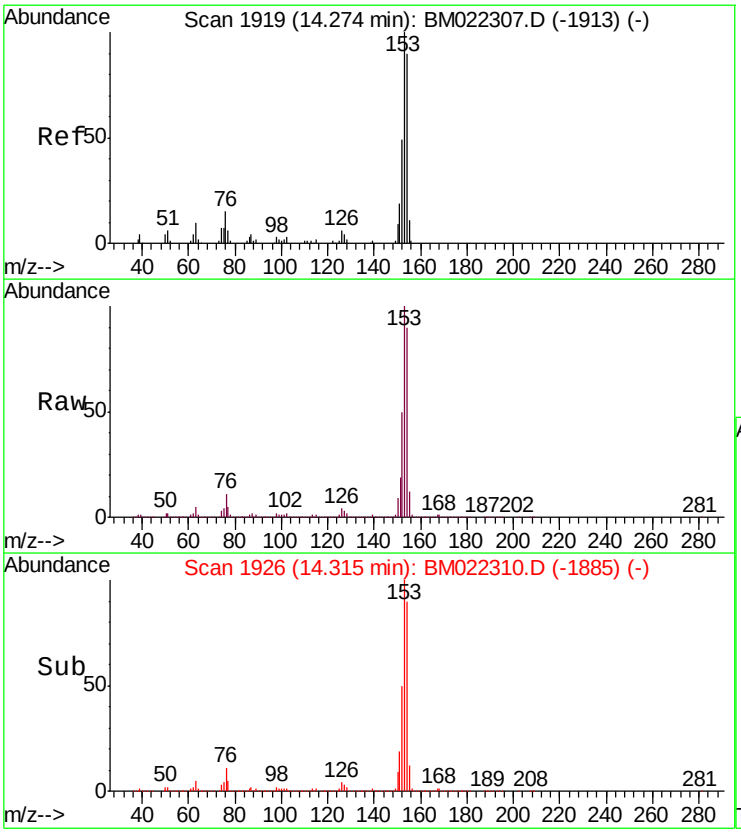
#47
Acenaphthylene
Concen: 3.939 ng/ul
RT: 13.93 min Scan# 1861
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:152 Resp: 63293

Ion	Ratio	Lower	Upper
152	100		
151	24.9	16.0	24.0#
153	41.3	10.4	15.6#

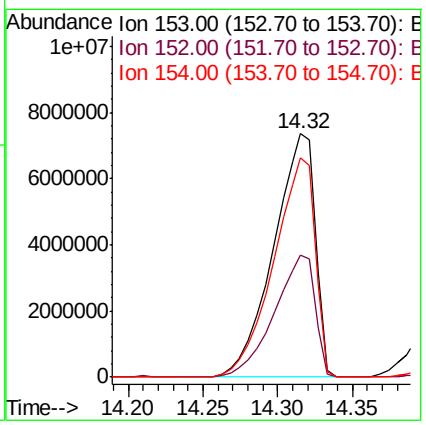


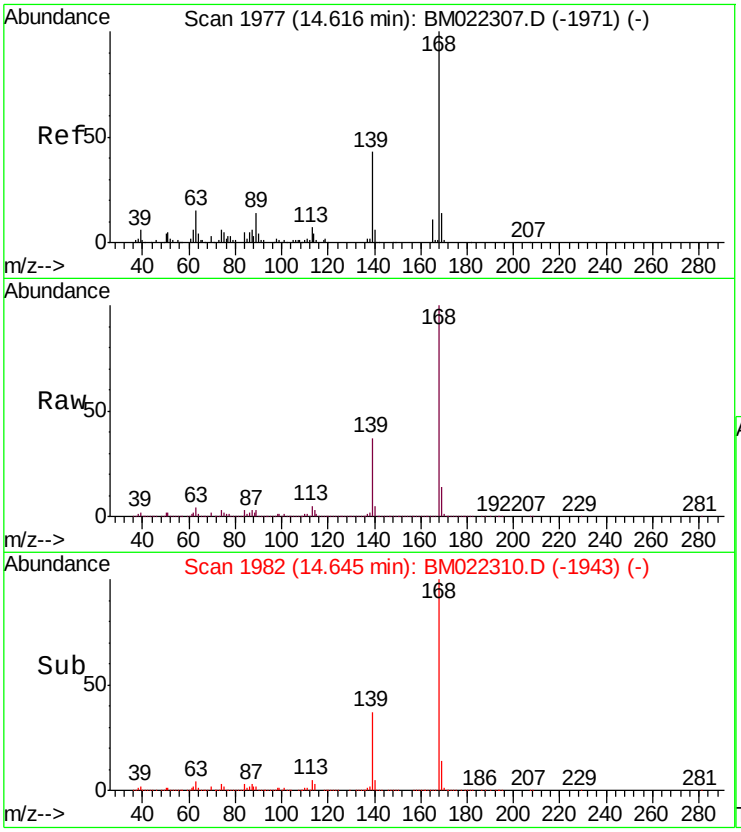


#49
Acenaphthene
Concen: 1259.595 ng/ul
RT: 14.32 min Scan# 1926
Delta R.T. 0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:153 Resp:14370121

Ion	Ratio	Lower	Upper
153	100		
152	49.9	38.6	58.0
154	90.1	68.9	103.3



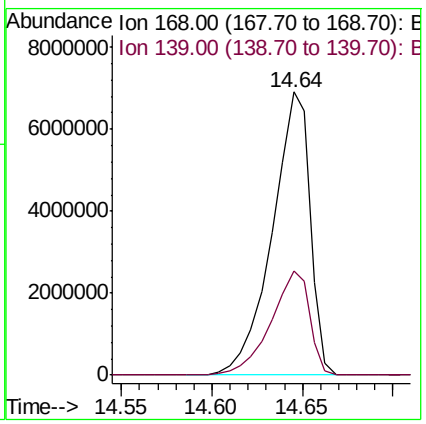


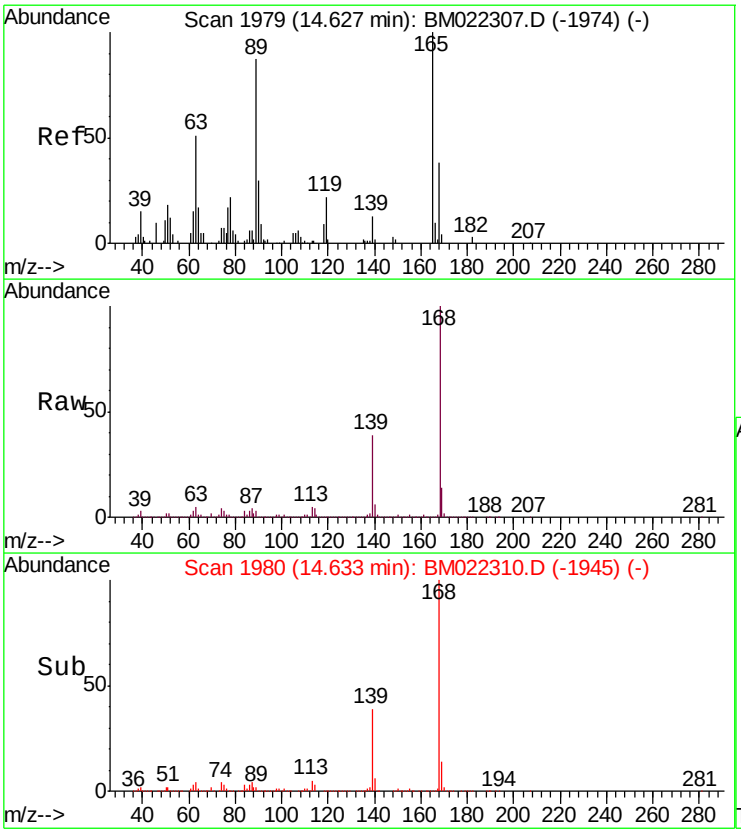
#53
Dibenzofuran
Concen: 593.181 ng/ul
RT: 14.64 min Scan# 1982
Delta R.T. 0.03 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:168 Resp:10079296

Ion	Ratio	Lower	Upper
168	100		
139	36.6	36.2	54.4

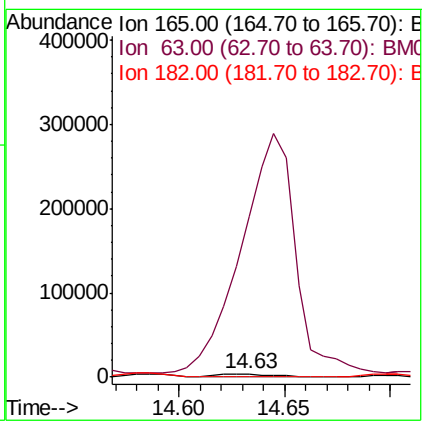


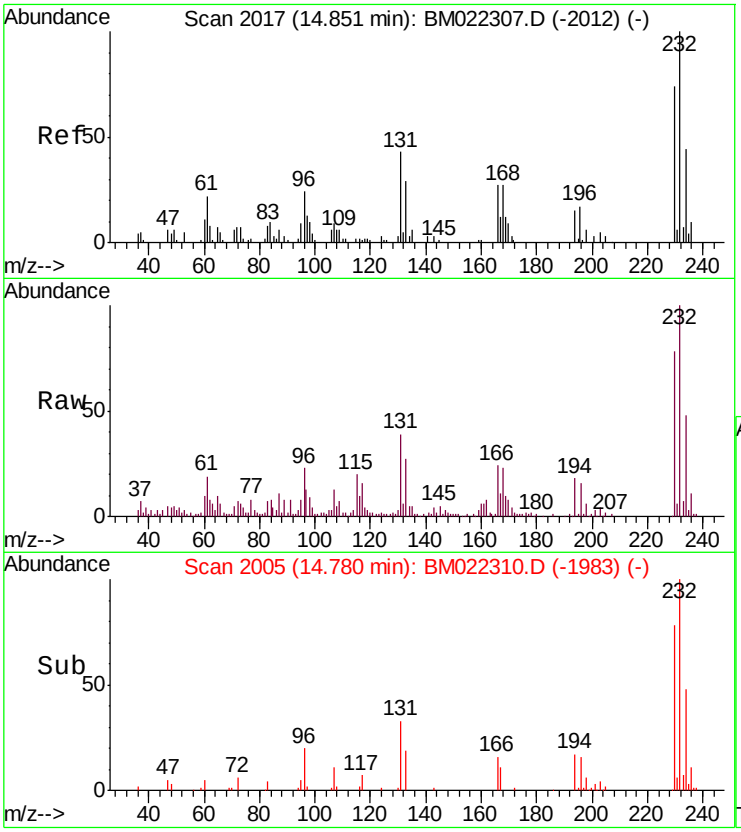


#54
2,4-Dinitrotoluene
Concen: 1.420 ng/ul
RT: 14.63 min Scan# 1980
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:165 Resp: 6171

Ion	Ratio	Lower	Upper
165	100		
63	4517.6	52.4	78.6#
182	29.9	2.2	3.4#



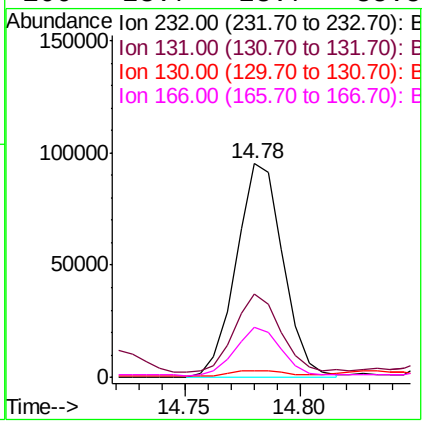


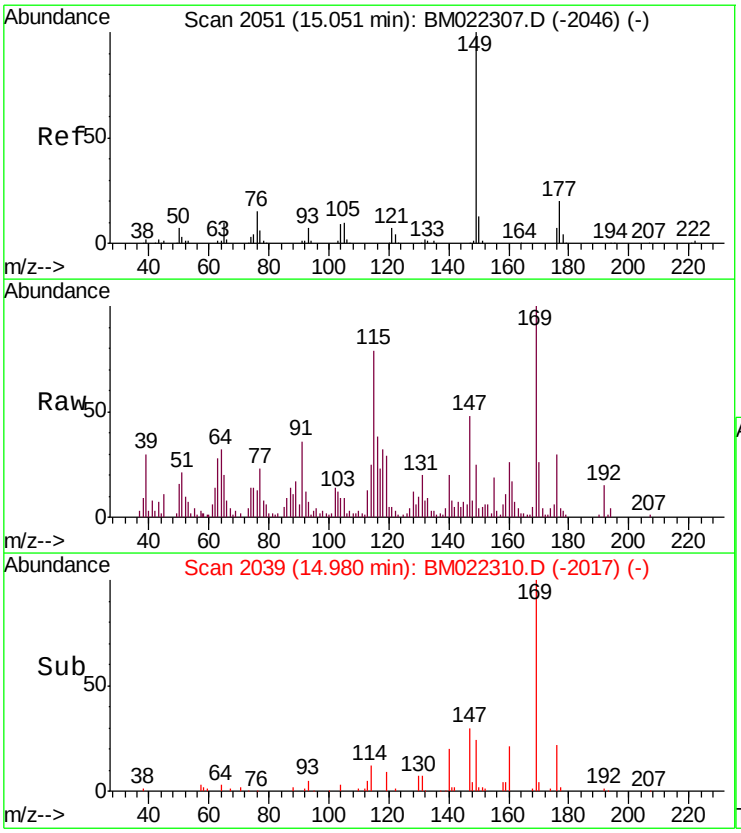
#55
2,3,4,6-Tetrachlorophenol
Concen: 32.054 ng/ul
RT: 14.78 min Scan# 2005
Delta R.T. -0.07 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:232 Resp: 134874

Ion	Ratio	Lower	Upper
232	100		
131	38.9	38.4	57.6
130	3.2	2.6	3.8
166	23.7	23.7	35.5

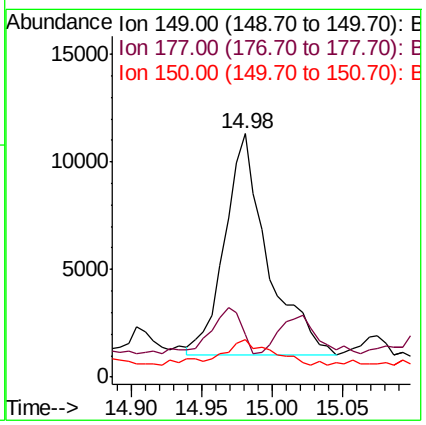


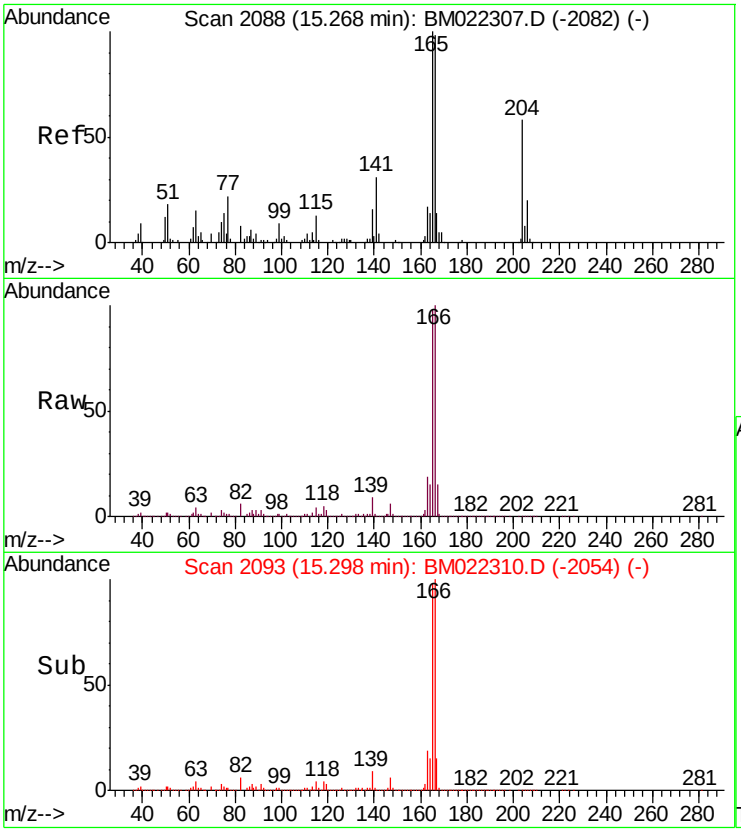


#56
Diethylphthalate
Concen: 1.371 ng/ul
RT: 14.98 min Scan# 2039
Delta R.T. -0.07 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:149 Resp: 21525

Ion	Ratio	Lower	Upper
149	100		
177	17.4	16.7	25.1
150	15.5	10.8	16.2



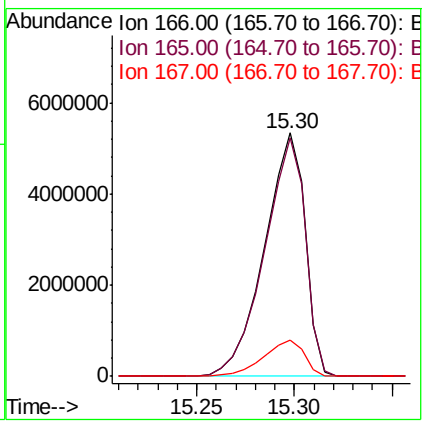


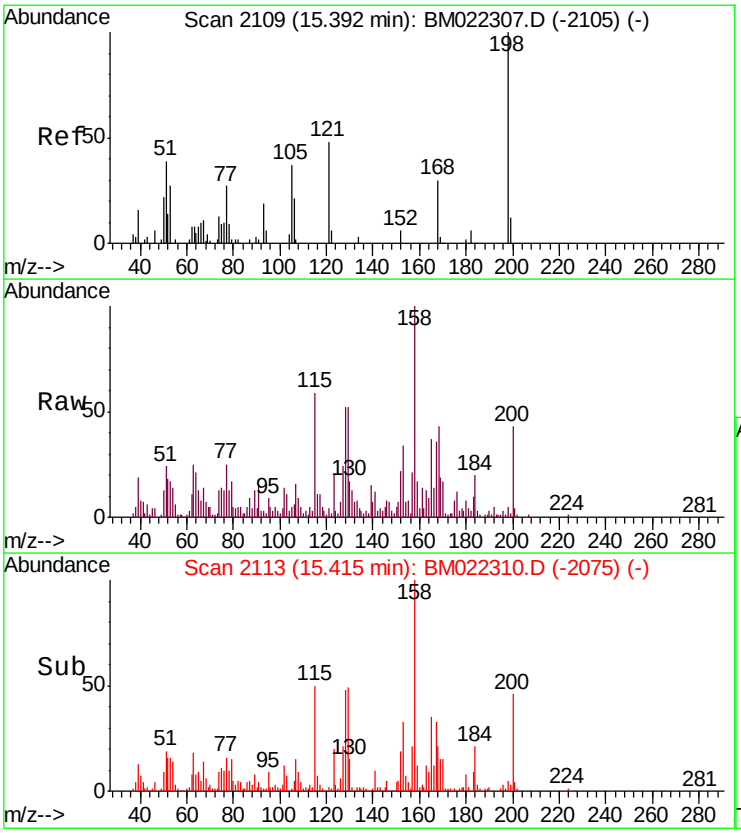
#58
Fluorene
Concen: 538.701 ng/ul
RT: 15.30 min Scan# 2093
Delta R.T. 0.03 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:166 Resp: 7709748

Ion	Ratio	Lower	Upper
166	100		
165	97.9	80.2	120.2
167	14.7	11.4	17.0

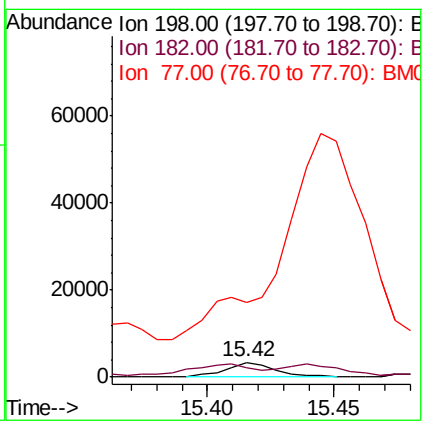


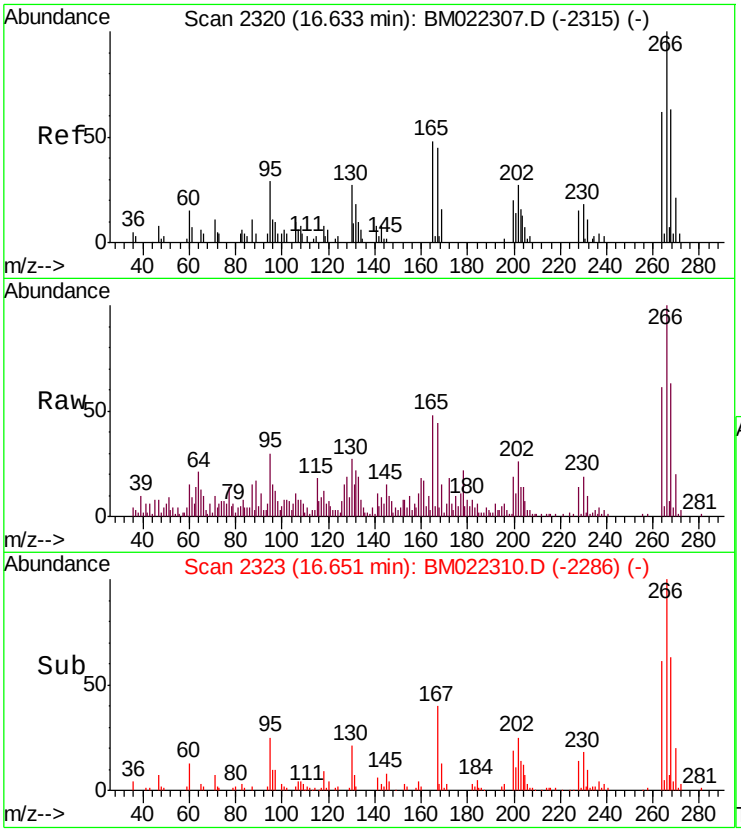


#63
4,6-Dinitro-2-methylphenol
Concen: 1.276 ng/ul
RT: 15.42 min Scan# 2113
Delta R.T. 0.02 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:198 Resp: 4604

Ion	Ratio	Lower	Upper
198	100		
182	62.2	3.8	5.8#
77	510.9	25.3	37.9#



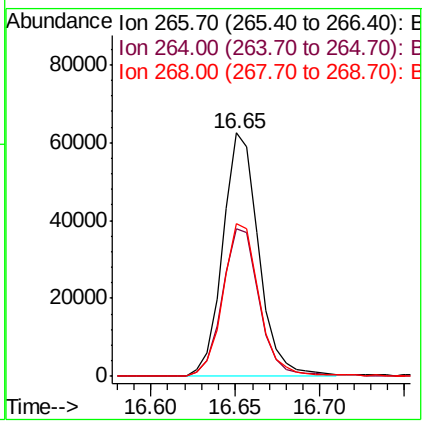


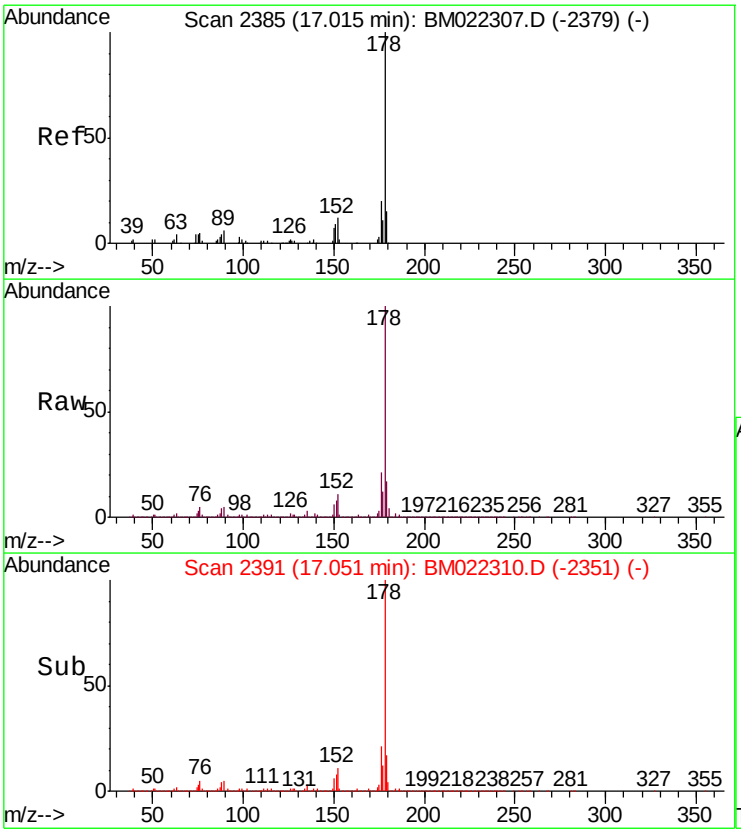
#68
Pentachlorophenol
Concen: 22.021 ng/ul
RT: 16.65 min Scan# 2323
Delta R.T. 0.02 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:266 Resp: 92496

Ion	Ratio	Lower	Upper
266	100		
264	60.7	51.3	76.9
268	62.8	49.4	74.2

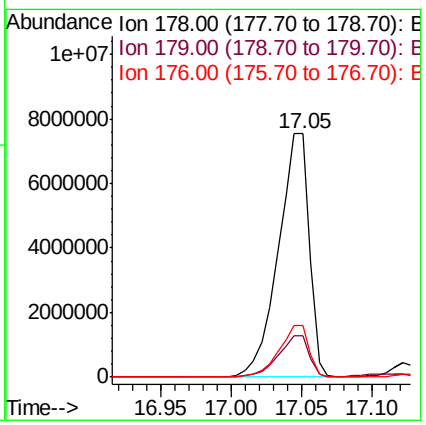


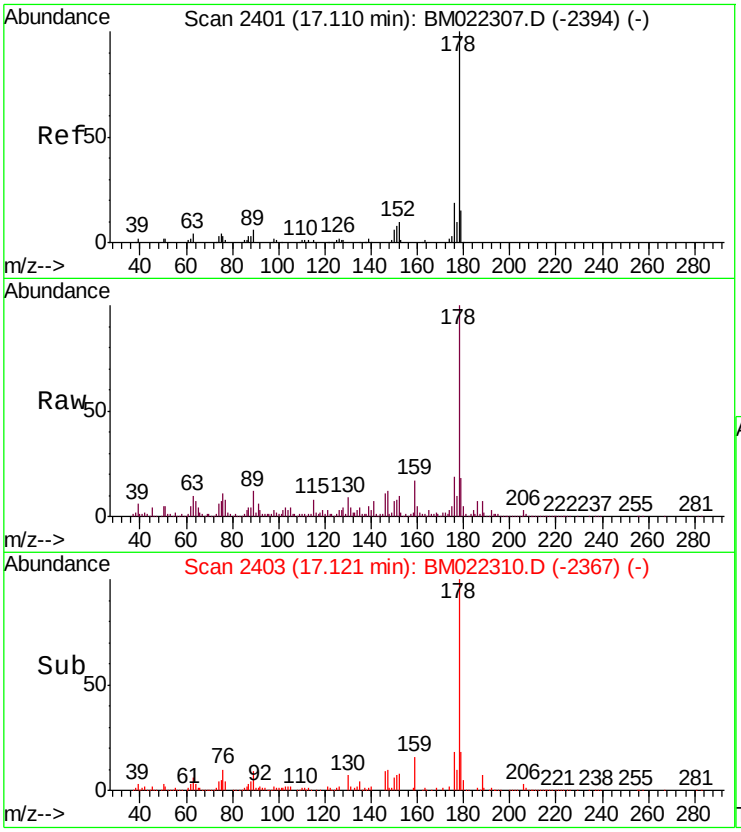


#69
Phenanthrene
Concen: 440.575 ng/ul
RT: 17.05 min Scan# 2391
Delta R.T. 0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:178 Resp:11490262

Ion	Ratio	Lower	Upper
178	100		
179	16.7	12.4	18.6
176	21.0	15.4	23.0



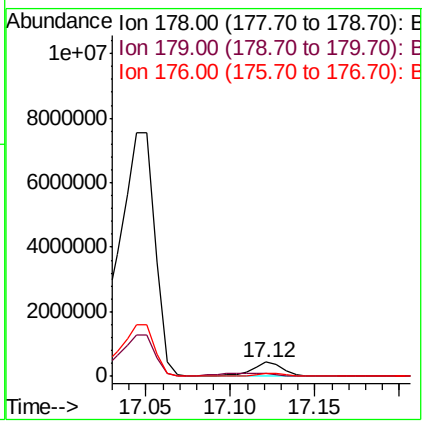


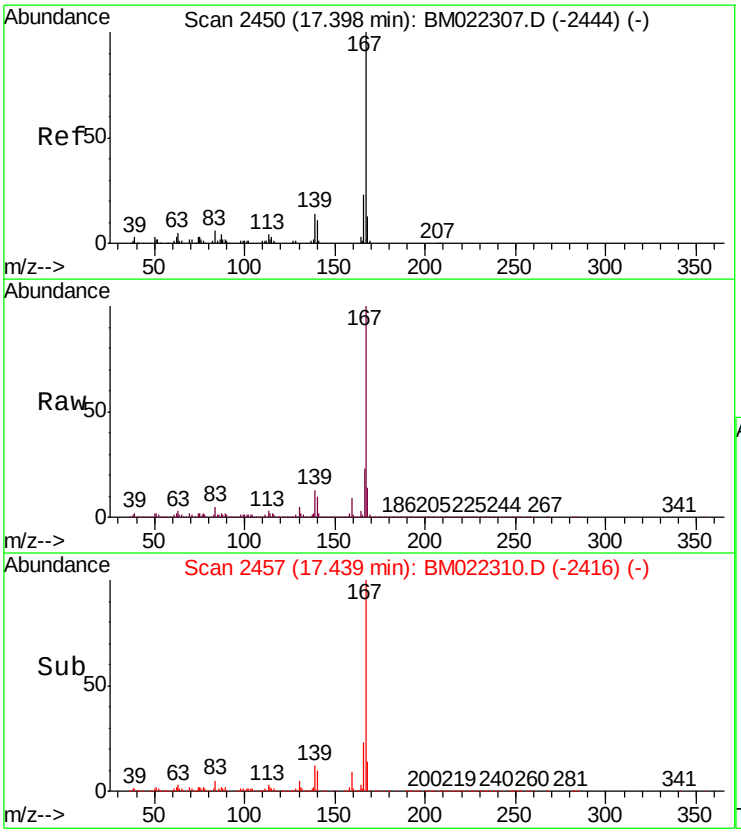
#71
Anthracene
Concen: 21.255 ng/ul
RT: 17.12 min Scan# 2403
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:178 Resp: 576846

Ion	Ratio	Lower	Upper
178	100		
179	18.0	12.3	18.5
176	19.1	15.5	23.3

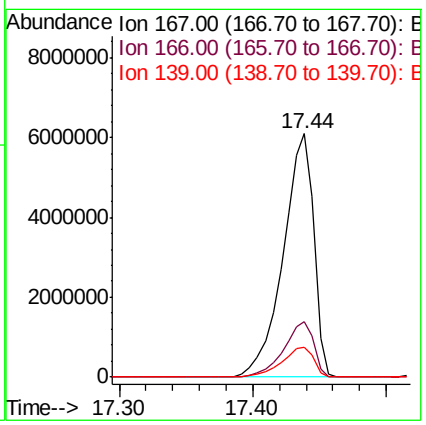


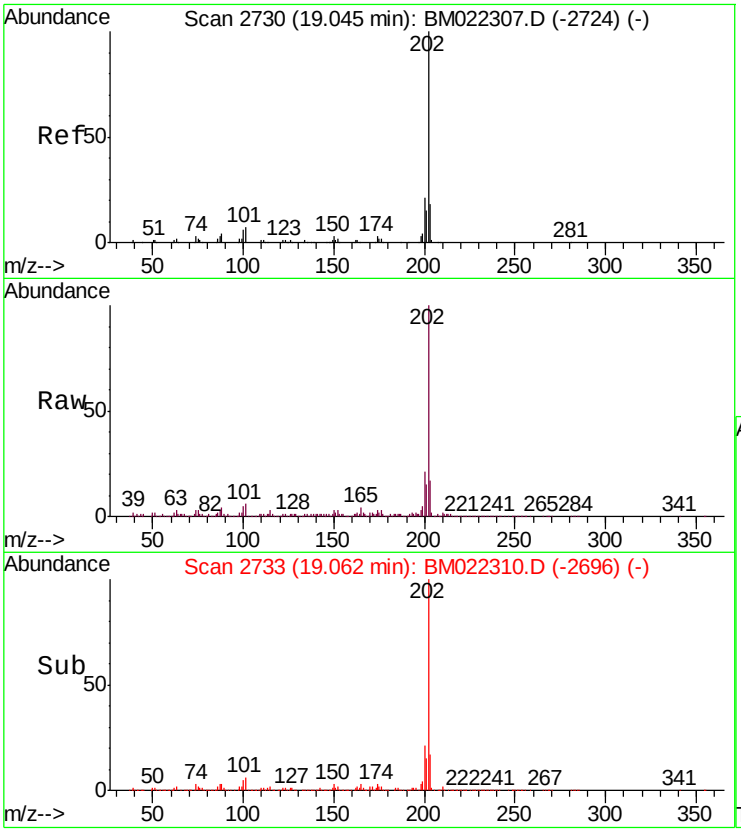


#74
Carbazole
Concen: 395.164 ng/ul
RT: 17.44 min Scan# 2457
Delta R.T. 0.04 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:167 Resp: 9686626

Ion	Ratio	Lower	Upper
167	100		
166	22.9	17.8	26.8
139	12.5	11.8	17.8



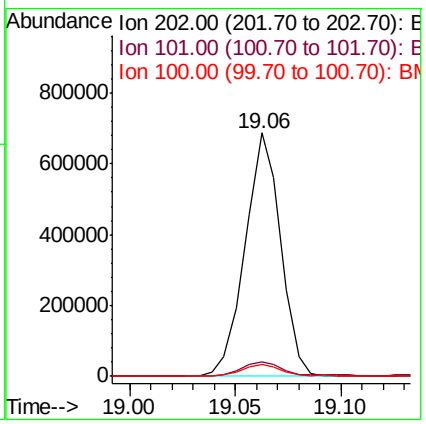


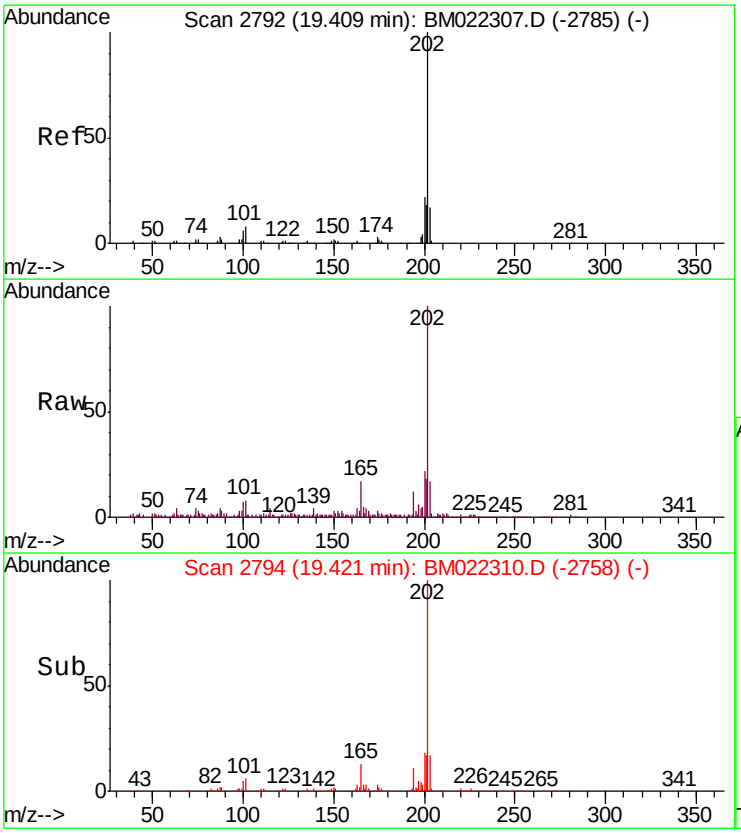
#76
Fluoranthene
Concen: 20.334 ng/ul
RT: 19.06 min Scan# 2733
Delta R.T. 0.02 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:202 Resp: 799170

Ion	Ratio	Lower	Upper
202	100		
101	5.9	5.3	7.9
100	4.7	4.6	6.8

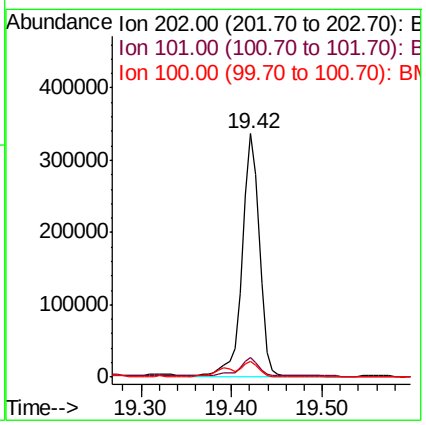


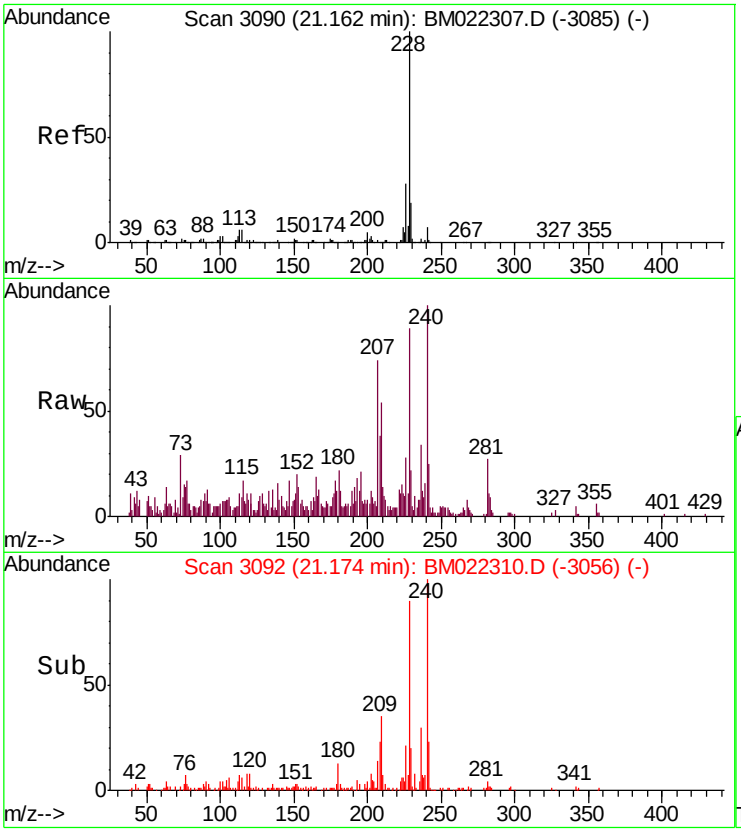


#79
Pyrene
Concen: 25.082 ng/ul
RT: 19.42 min Scan# 2794
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:202 Resp: 443668

Ion	Ratio	Lower	Upper
202	100		
101	8.1	7.0	10.4
100	6.6	5.8	8.8



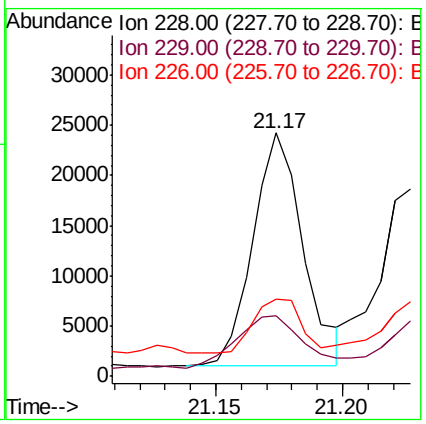


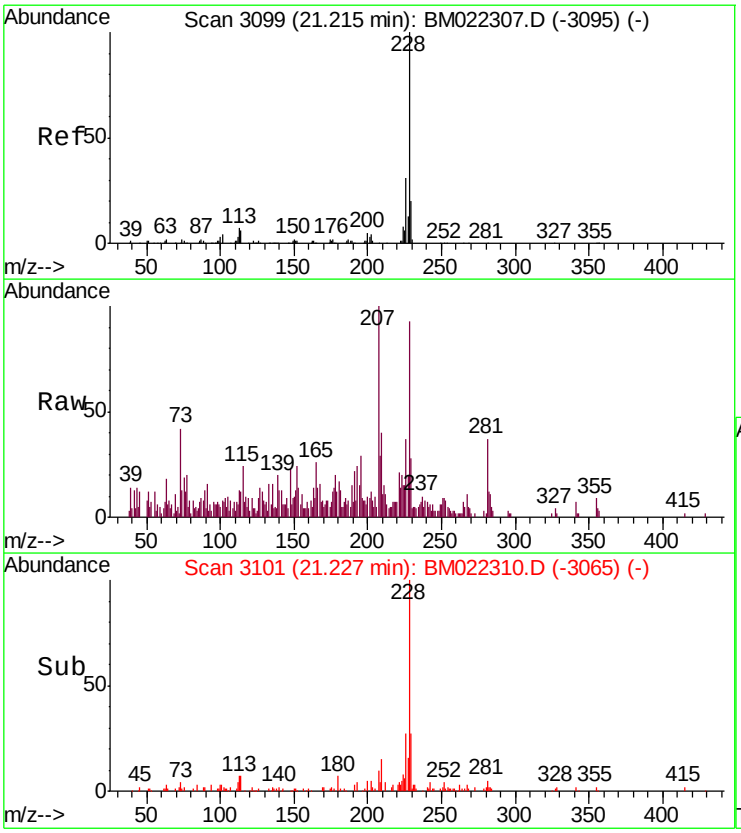
#82
Benzo(a)anthracene
Concen: 1.564 ng/ul
RT: 21.17 min Scan# 3092
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Instrument :
BNA_M
ClientSampleId :
C0AF8

Tgt Ion:228 Resp: 32174

Ion	Ratio	Lower	Upper
228	100		
229	24.7	15.2	22.8#
226	31.6	22.3	33.5





#84
Chrysene
Concen: 1.356 ng/ul
RT: 21.23 min Scan# 3101
Delta R.T. 0.01 min
Lab File: BM022310.D
Acq: 25 Aug 2019 02:20

Tgt Ion:228 Resp: 26086

Ion	Ratio	Lower	Upper
228	100		
226	40.1	24.7	37.1#
229	29.6	15.7	23.5#