

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE102418\
 Data File : BE098043.D
 Acq On : 24 Oct 2018 17:57
 Operator : SJ/JU
 Sample : J5164-03
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

Quant Time: Oct 25 04:03:09 2018

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE102418.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Oct 24 13:49:35 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	1118	0.40	ng	0.00
7) Naphthalene-d8	10.68	136	5455	0.40	ng	0.00
13) Acenaphthene-d10	14.54	164	3855	0.40	ng	0.00
19) Phenanthrene-d10	17.29	188	9493	0.40	ng	0.00
27) Chrysene-d12	21.47	240	11176	0.40	ng	0.00
34) Perylene-d12	24.02	264	11166	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.47	112	1167	0.34	ng	0.00
5) Phenol-d6	7.06	99	1801	0.32	ng	0.00
8) Nitrobenzene-d5	9.03	82	2083	0.36	ng	0.00
11) 2-Methylnaphthalene-d10	12.28	152	3002	0.31	ng	0.00
14) 2,4,6-Tribromophenol	16.03	330	564	0.29	ng	0.00
15) 2-Fluorobiphenyl	13.16	172	5155	0.33	ng	0.00
25) Fluoranthene-d10	19.32	212	37404	0.31	ng	0.00
29) Terphenyl-d14	19.91	244	7918	0.30	ng	0.00

Target Compounds

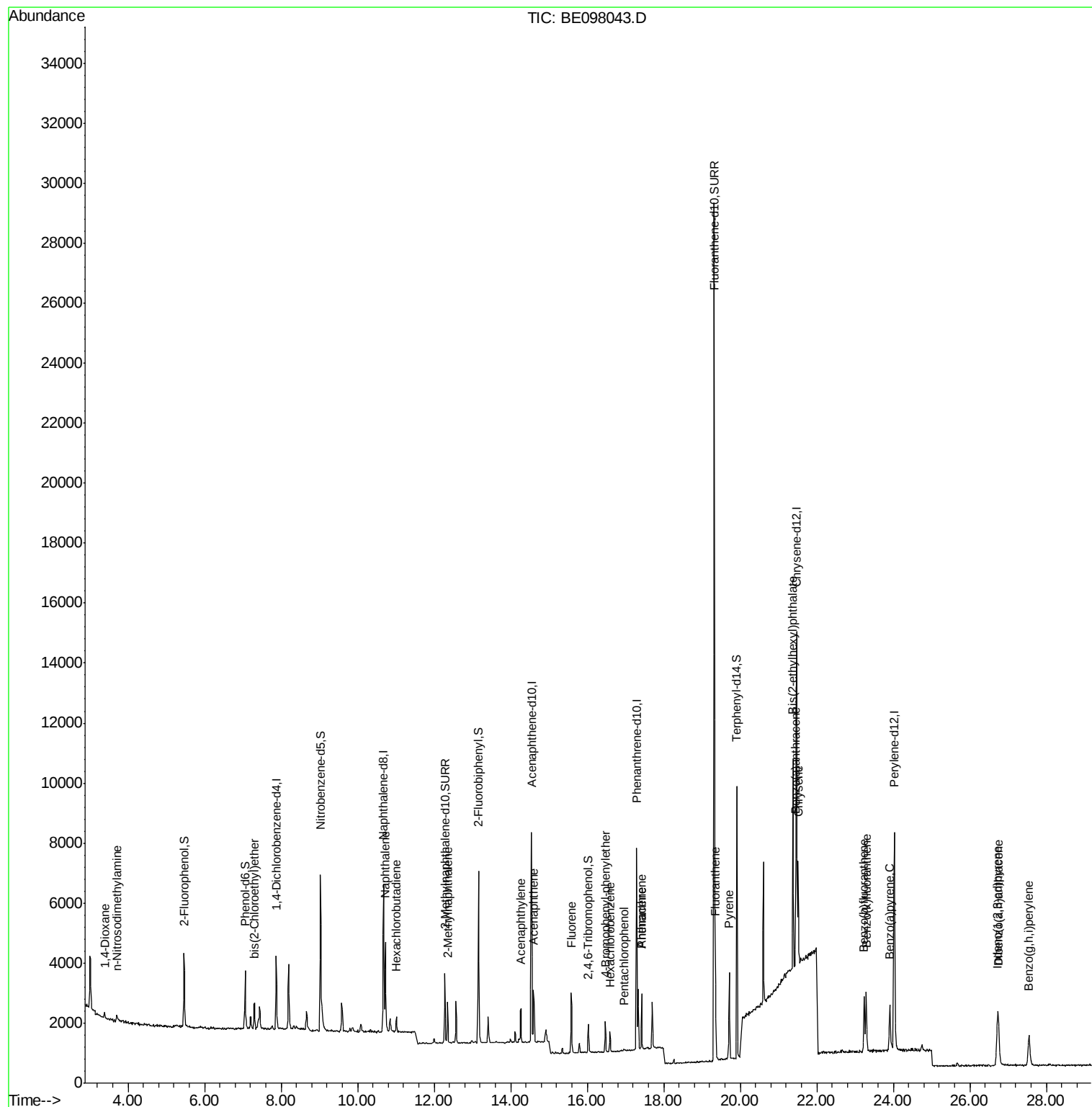
						Qvalue
2) 1,4-Dioxane	3.38	88	162	0.094	ng	# 93
3) n-Nitrosodimethylamine	3.71	42	189	0.082	ng	# 87
6) bis(2-Chloroethyl)ether	7.30	93	404	0.102	ng	85
9) Naphthalene	10.73	128	4883	0.090	ng	# 96
10) Hexachlorobutadiene	11.02	225	355	0.097	ng	95
12) 2-Methylnaphthalene	12.35	142	904	0.092	ng	# 93
16) Acenaphthylene	14.27	152	1579	0.090	ng	99
17) Acenaphthene	14.60	154	941	0.089	ng	94
18) Fluorene	15.58	166	1257	0.088	ng	92
20) 4-Bromophenyl-phenylether	16.48	248	497	0.087	ng	# 89
21) Hexachlorobenzene	16.59	284	535	0.089	ng	93
22) Pentachlorophenol	16.97	266	40	0.080	ng	# 71
23) Phenanthrene	17.42	178	1968	0.084	ng	98
24) Anthracene	17.42	178	1966	0.086	ng	97
26) Fluoranthene	19.35	202	2626	0.090	ng	97
28) Pyrene	19.71	202	2680	0.087	ng	96
30) Benzo(a)anthracene	21.45	228	2902	0.088	ng	95
31) Chrysene	21.51	228	2842	0.089	ng	99
32) Bis(2-ethylhexyl)phthalate	21.38	149	7558	0.096	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.72	276	3033	0.087	ng	# 70
35) Benzo(b)fluoranthene	23.24	252	2782	0.090	ng	# 86
36) Benzo(k)fluoranthene	23.29	252	2766	0.086	ng	# 89
37) Benzo(a)pyrene	23.91	252	2663	0.087	ng	# 86
38) Dibenzo(a,h)anthracene	26.75	278	2560	0.086	ng	# 89
39) Benzo(g,h,i)perylene	27.54	276	2555	0.087	ng	94

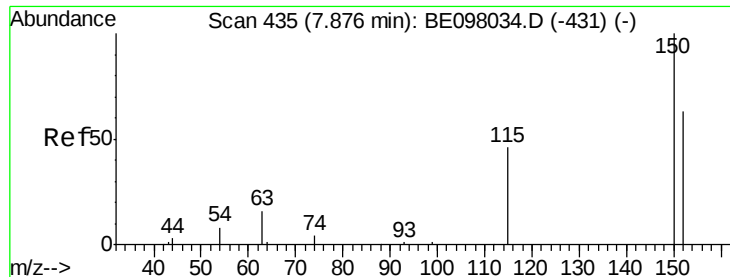
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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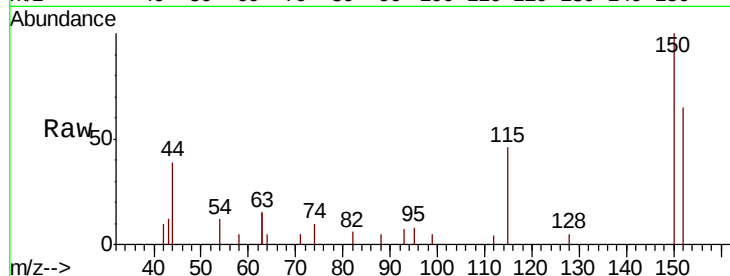


#1

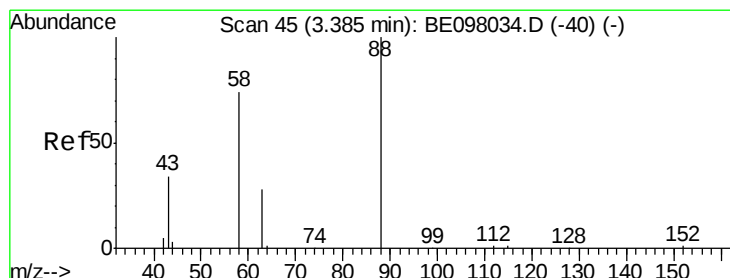
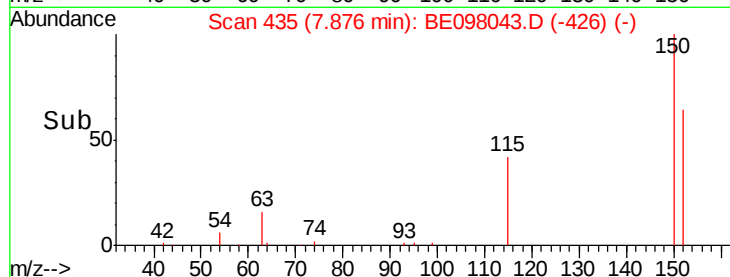
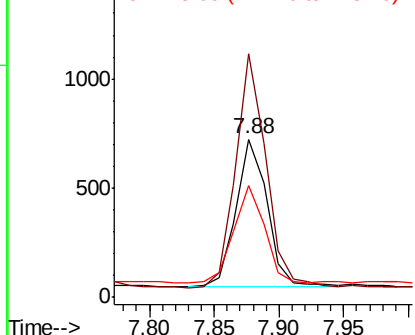
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.88 min Scan# 435
Delta R.T. 0.00 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Instrument :
BNA_E
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 152 Resp: 1118
Ion Ratio Lower Upper
152 100
150 153.9 118.2 177.4
115 70.6 50.9 76.3



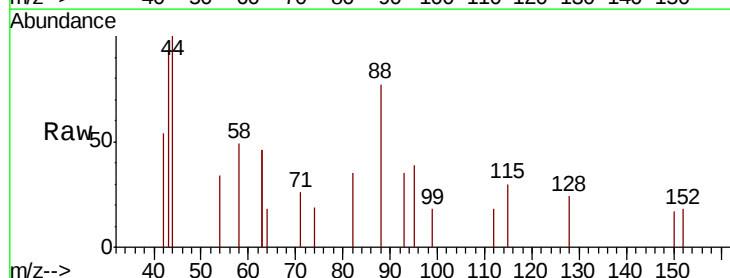
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



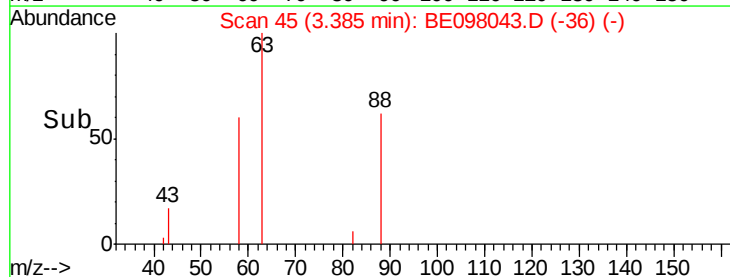
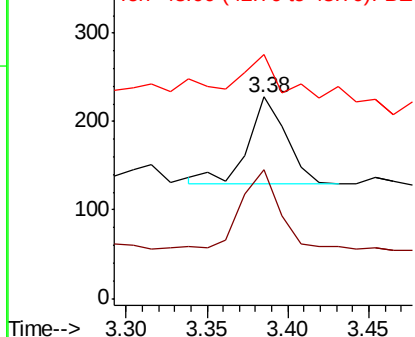
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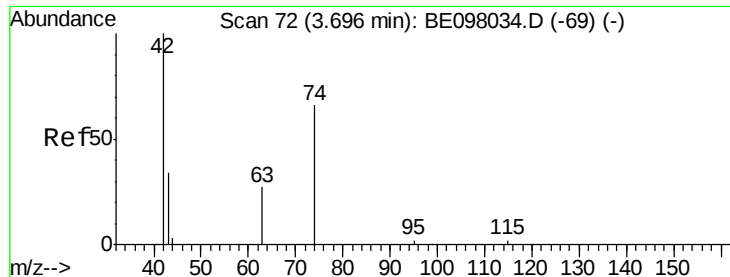
1,4-Dioxane
Concen: 0.094 ng
RT: 3.38 min Scan# 45
Delta R.T. 0.00 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Tgt Ion: 88 Resp: 162
Ion Ratio Lower Upper
88 100
58 90.7 73.2 109.8
43 59.3 36.9 55.3#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0



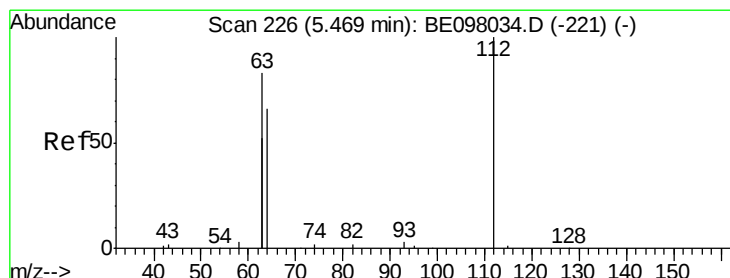
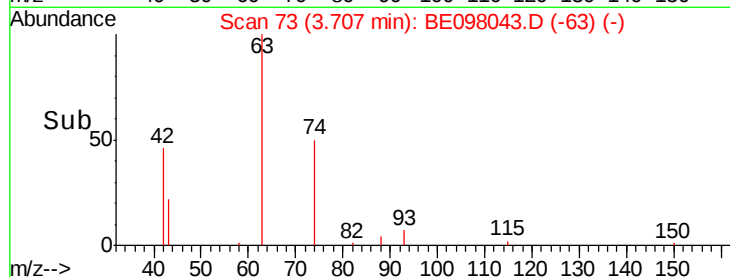
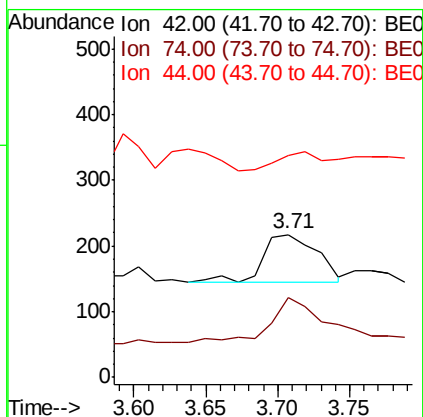
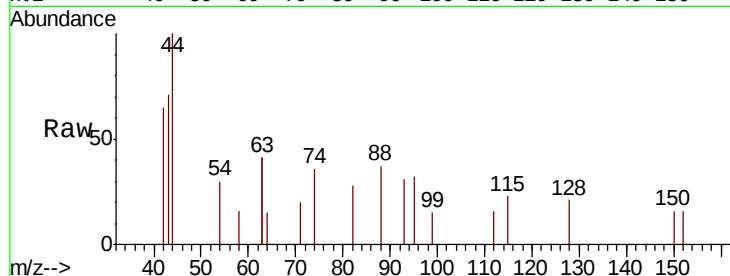


#3

n-Nitrosodimethylamine
 Concen: 0.082 ng
 RT: 3.71 min Scan# 73
 Delta R.T. 0.01 min
 Lab File: BE098043.D
 Acq: 24 Oct 2018 17:57

Instrument :
 BNA_E
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

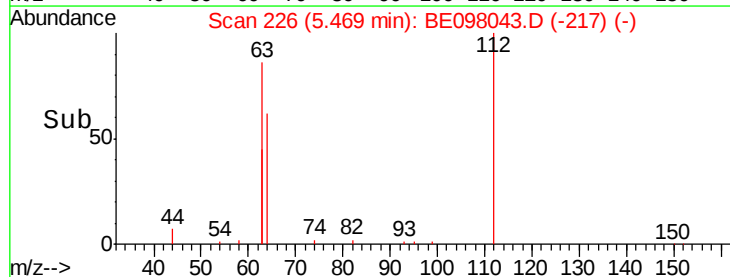
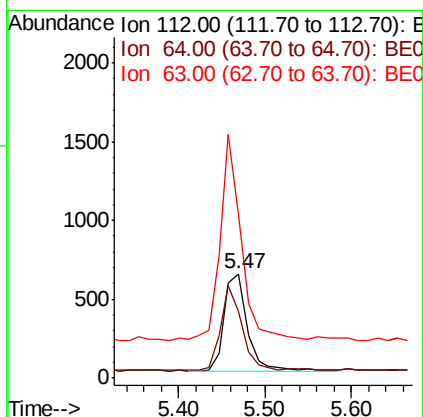
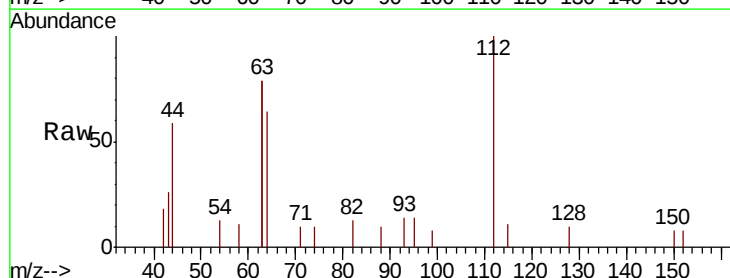
Tgt Ion: 42 Resp: 189
 Ion Ratio Lower Upper
 42 100
 74 89.9 77.6 116.4
 44 37.6 7.6 11.4#

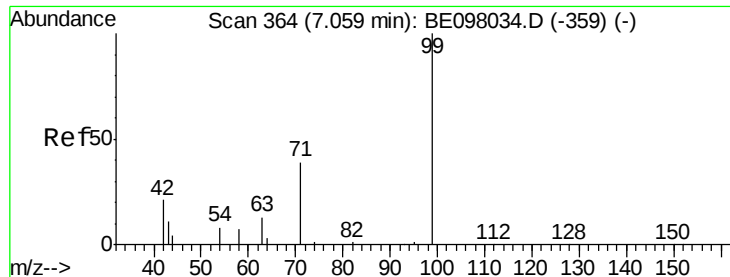


#4

2-Fluorophenol
 Concen: 0.345 ng
 RT: 5.47 min Scan# 226
 Delta R.T. 0.00 min
 Lab File: BE098043.D
 Acq: 24 Oct 2018 17:57

Tgt Ion: 112 Resp: 1167
 Ion Ratio Lower Upper
 112 100
 64 78.6 58.9 88.3
 63 193.4 120.3 180.5#





#5

Phenol-d6

Concen: 0.320 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

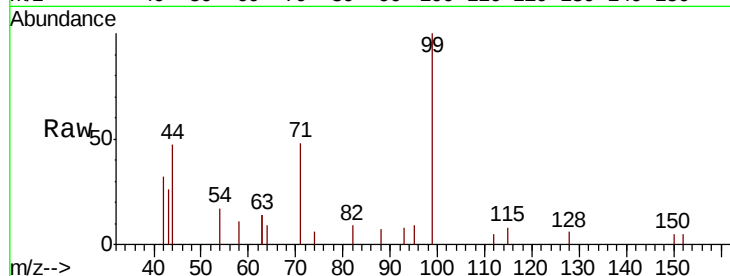
Tgt Ion: 99 Resp: 1801

Ion Ratio Lower Upper

99 100

42 32.4 19.9 29.9#

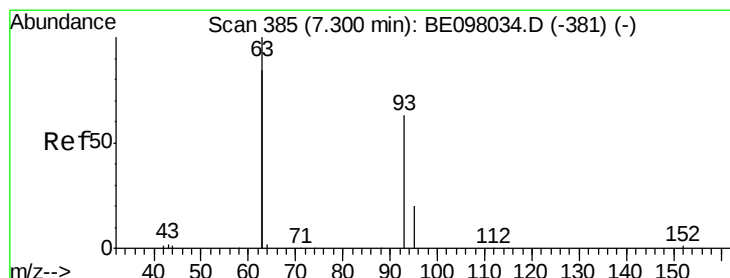
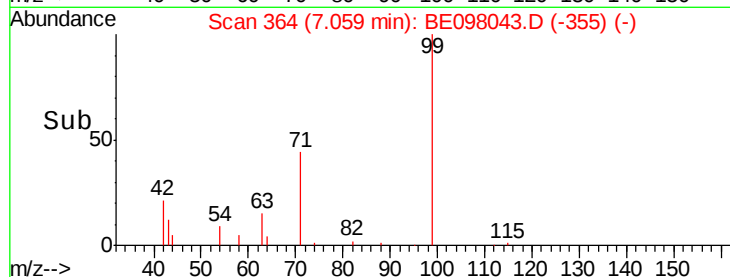
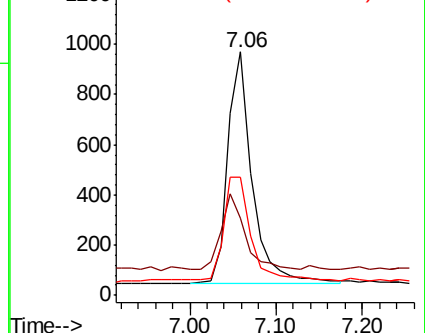
71 48.3 27.8 41.8#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.102 ng

RT: 7.30 min Scan# 385

Delta R.T. 0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

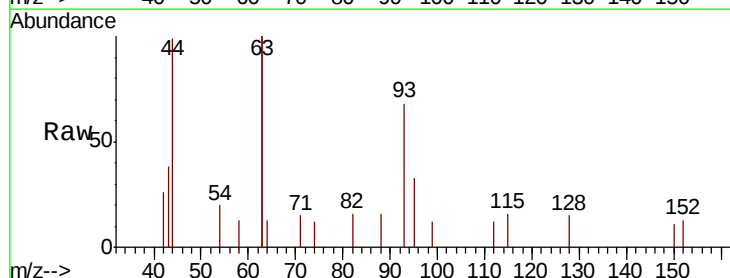
Tgt Ion: 93 Resp: 404

Ion Ratio Lower Upper

93 100

63 290.8 259.0 388.4

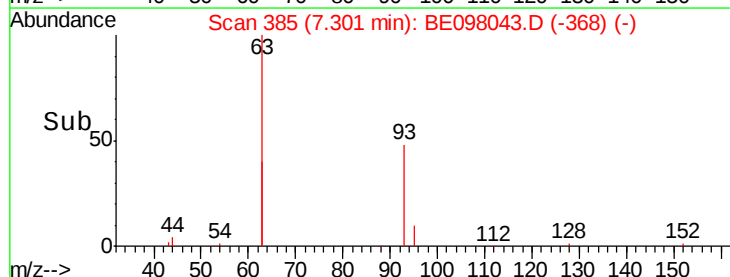
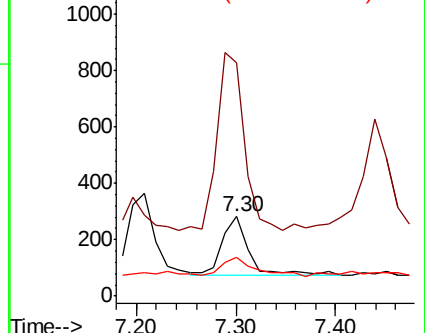
95 36.9 27.8 41.8

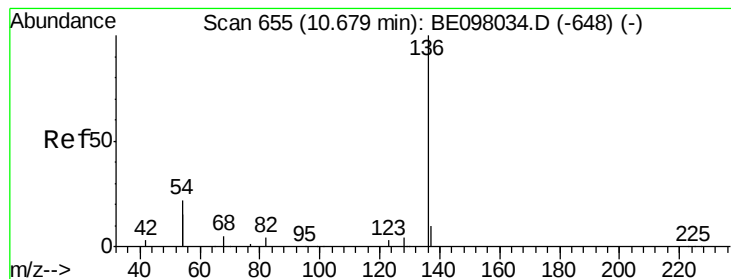


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.68 min Scan# 655

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

Tgt Ion: 136 Resp: 5455

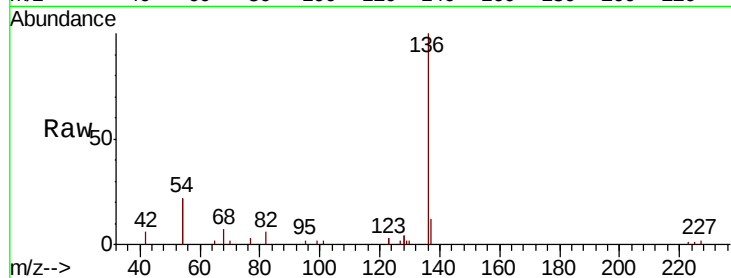
Ion Ratio Lower Upper

136 100

137 11.7 9.6 14.4

54 44.6 27.7 41.5#

68 6.5 5.3 7.9

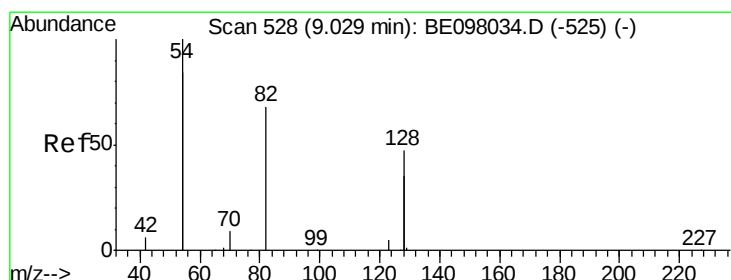
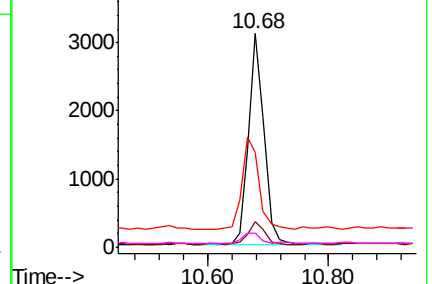
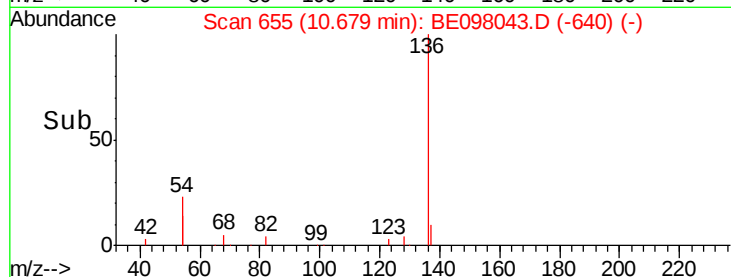


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.359 ng

RT: 9.03 min Scan# 528

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

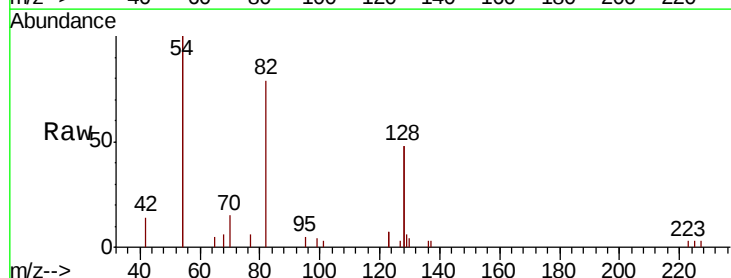
Tgt Ion: 82 Resp: 2083

Ion Ratio Lower Upper

82 100

128 120.6 129.9 194.9#

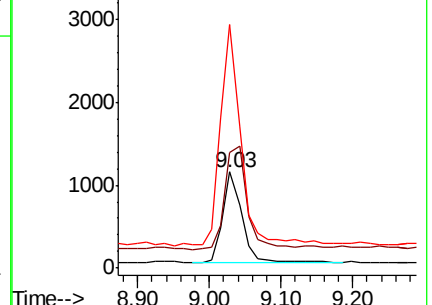
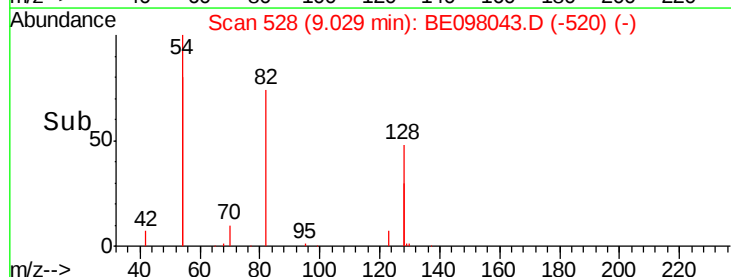
54 253.5 174.0 261.0

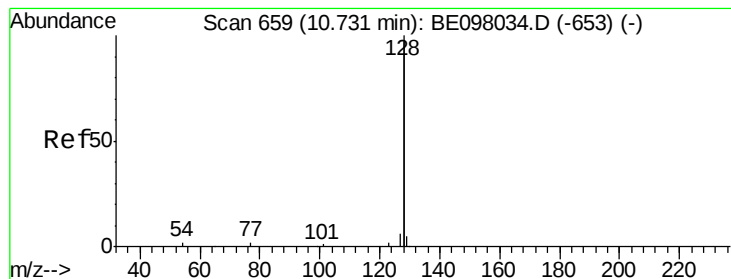


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.090 ng

RT: 10.73 min Scan# 659

Delta R.T. -0.00 min

Lab File: BE098043.D

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BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

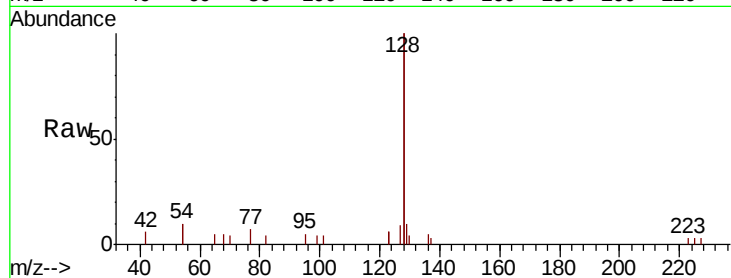
Tgt Ion:128 Resp: 4883

Ion Ratio Lower Upper

128 100

129 4.8 2.5 3.7#

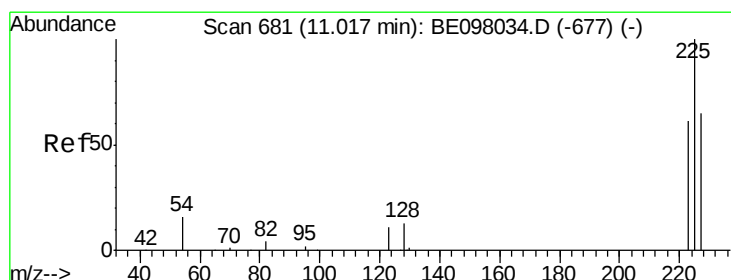
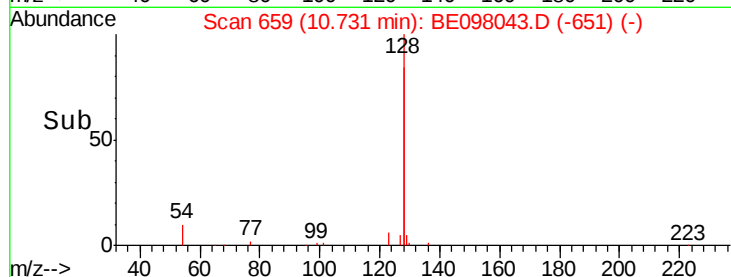
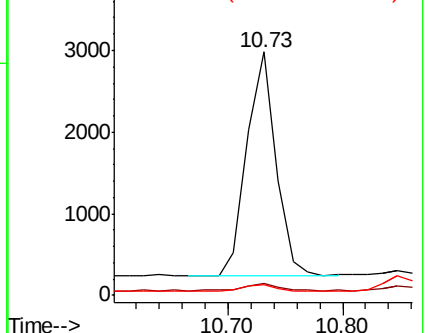
127 4.3 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.097 ng

RT: 11.02 min Scan# 681

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

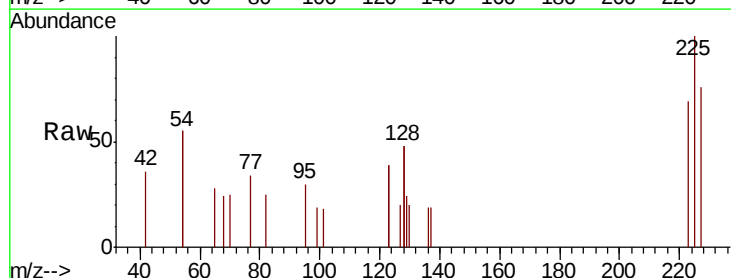
Tgt Ion:225 Resp: 355

Ion Ratio Lower Upper

225 100

223 62.5 51.8 77.8

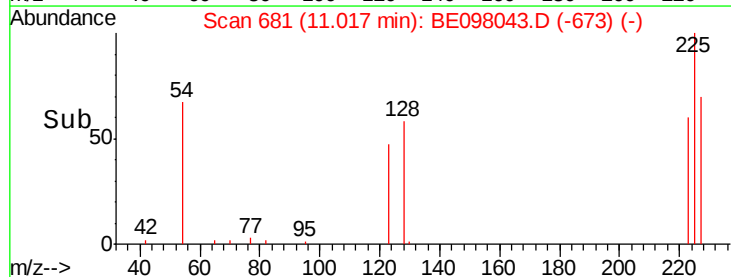
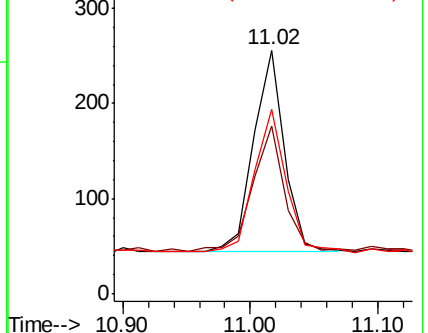
227 72.4 53.0 79.6

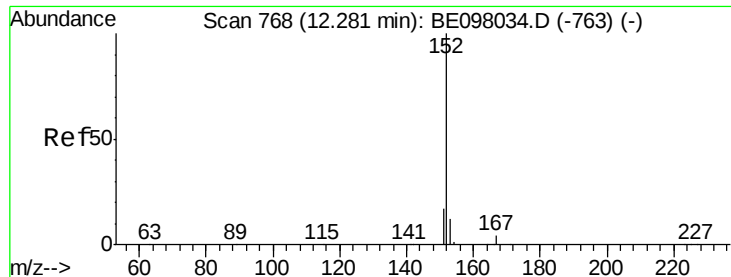


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

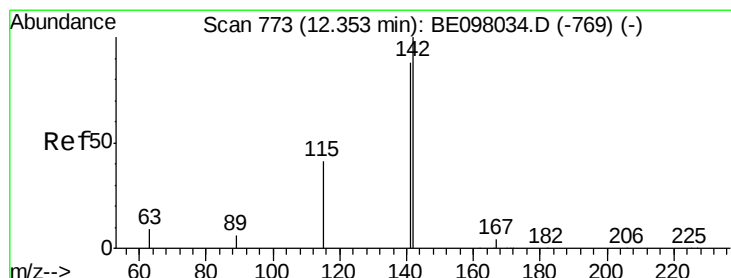
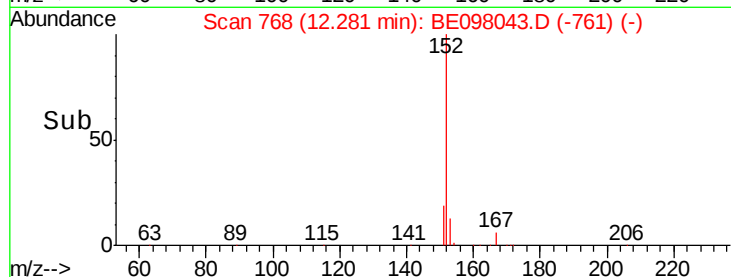
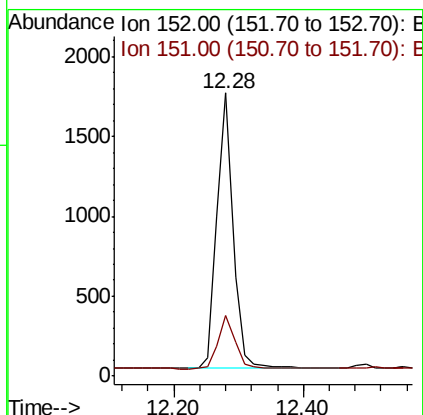
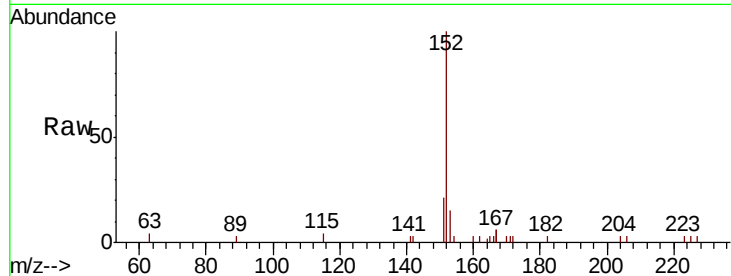




#11
 2-Methylnaphthalene-d10
 Concen: 0.310 ng
 RT: 12.28 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: BE098043.D
 Acq: 24 Oct 2018 17:57

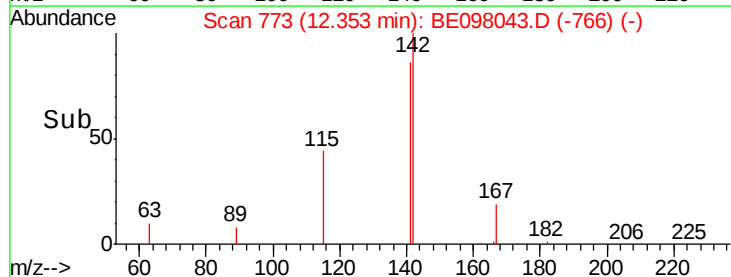
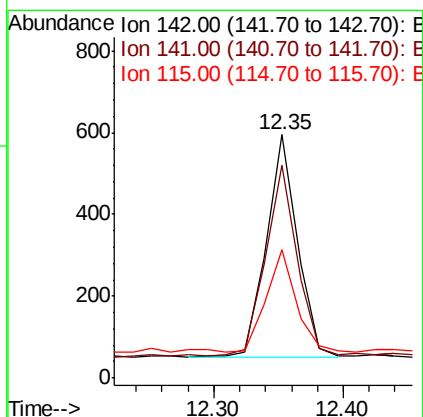
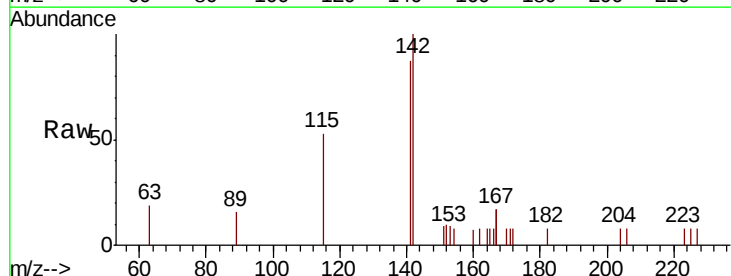
Instrument :
 BNA_E
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018

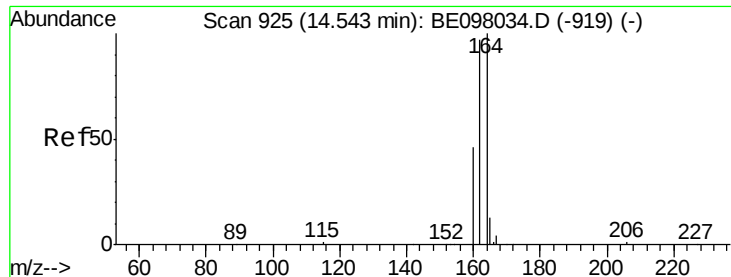
Tgt Ion:152 Resp: 3002
 Ion Ratio Lower Upper
 152 100
 151 20.3 16.2 24.4



#12
 2-Methylnaphthalene
 Concen: 0.092 ng
 RT: 12.35 min Scan# 773
 Delta R.T. -0.00 min
 Lab File: BE098043.D
 Acq: 24 Oct 2018 17:57

Tgt Ion:142 Resp: 904
 Ion Ratio Lower Upper
 142 100
 141 87.4 69.8 104.6
 115 52.6 30.5 45.7#

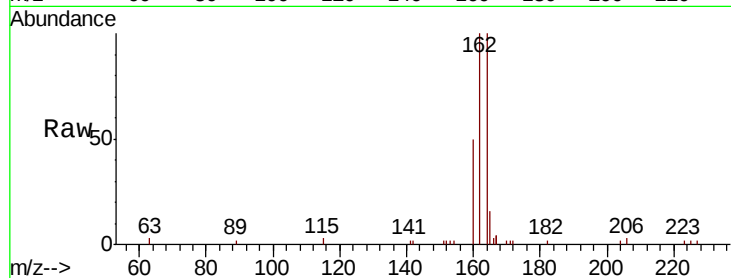




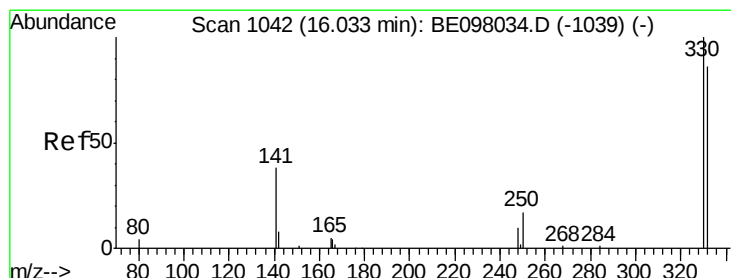
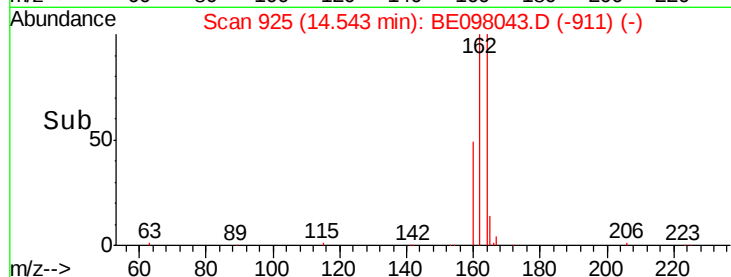
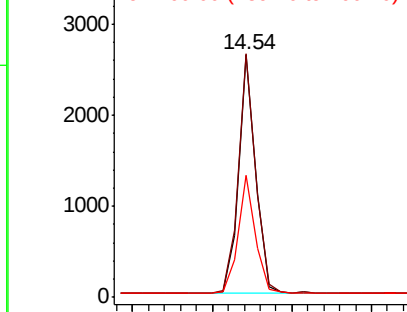
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Instrument :
BNA_E
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:164 Resp: 3855
Ion Ratio Lower Upper
164 100
162 100.5 77.4 116.2
160 50.4 36.5 54.7

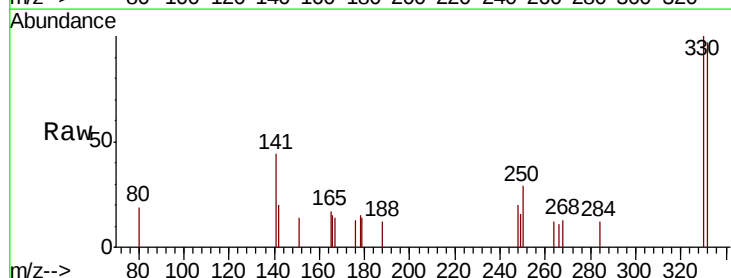


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

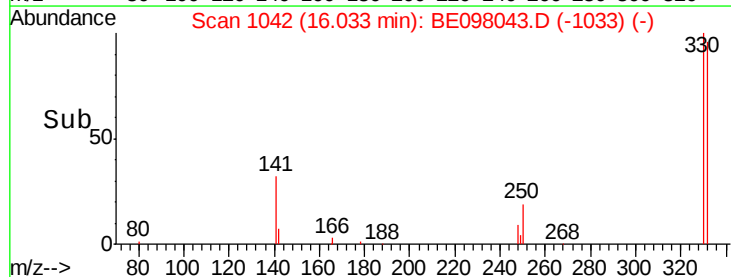
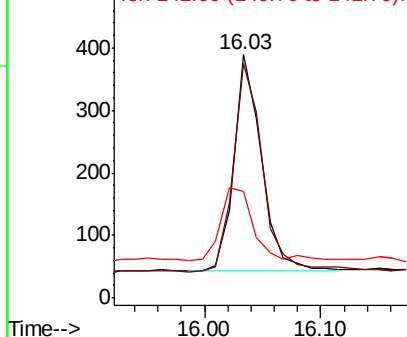


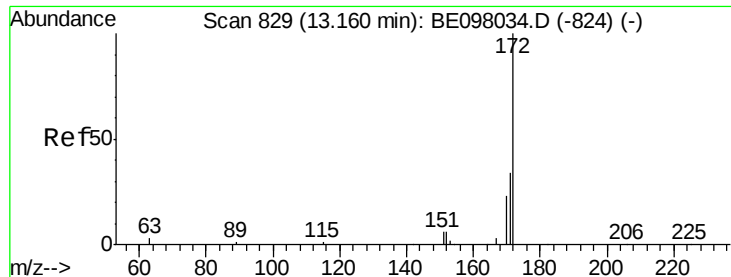
#14
2,4,6-Tribromophenol
Concen: 0.291 ng
RT: 16.03 min Scan# 1042
Delta R.T. 0.00 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Tgt Ion:330 Resp: 564
Ion Ratio Lower Upper
330 100
332 106.4 76.5 114.7
141 41.7 31.8 47.6



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

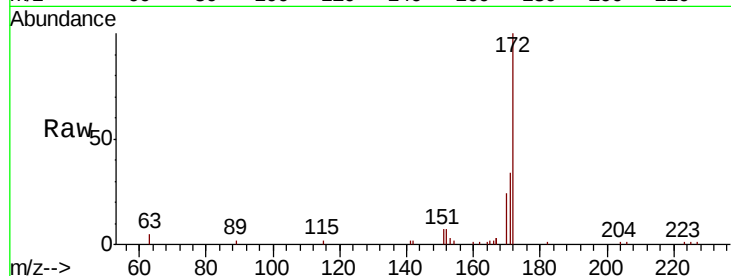




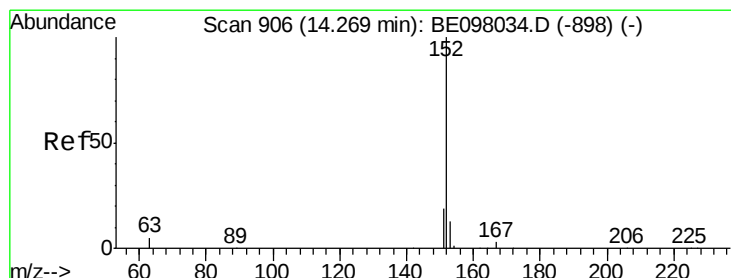
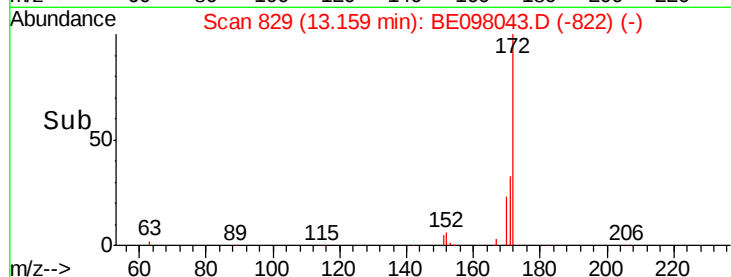
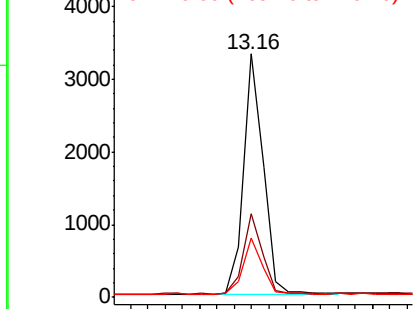
#15
2-Fluorobiphenyl
Concen: 0.331 ng
RT: 13.16 min Scan# 829
Delta R.T. -0.00 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Instrument :
BNA_E
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:172 Resp: 5155
Ion Ratio Lower Upper
172 100
171 34.2 26.0 39.0
170 24.1 18.0 27.0

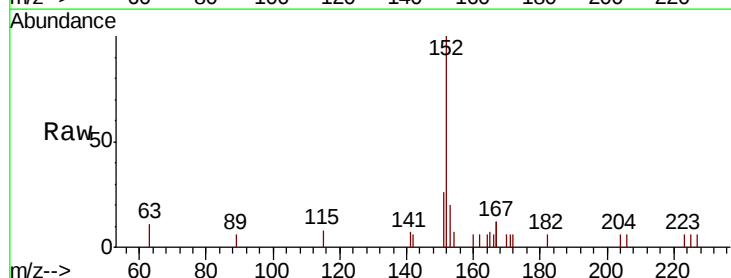


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

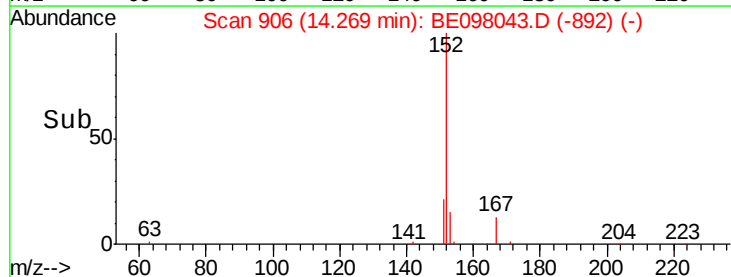
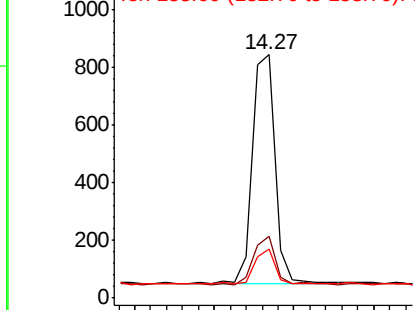


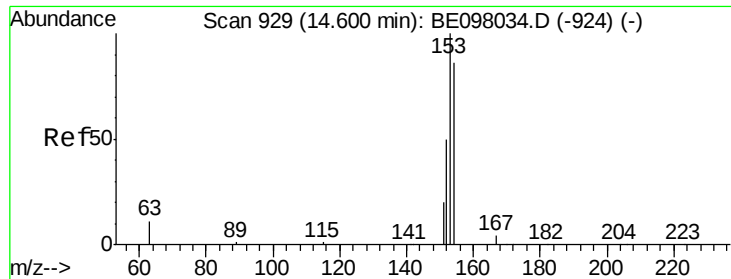
#16
Acenaphthylene
Concen: 0.090 ng
RT: 14.27 min Scan# 906
Delta R.T. -0.00 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Tgt Ion:152 Resp: 1579
Ion Ratio Lower Upper
152 100
151 20.7 16.1 24.1
153 14.2 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

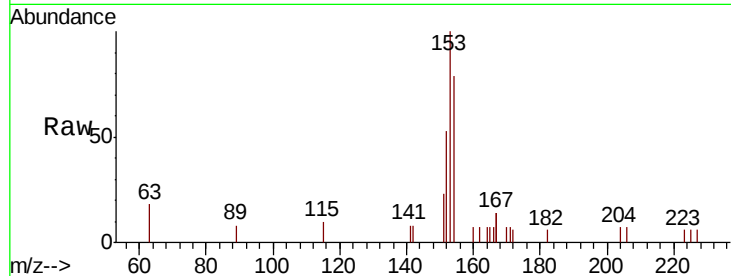




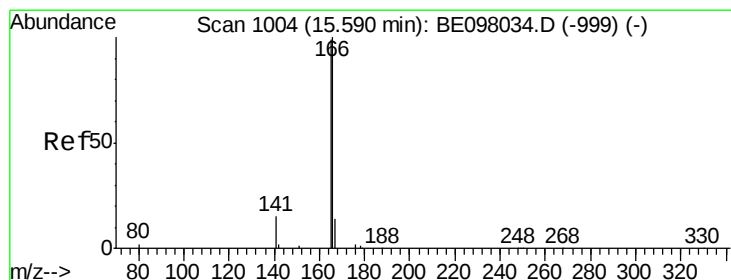
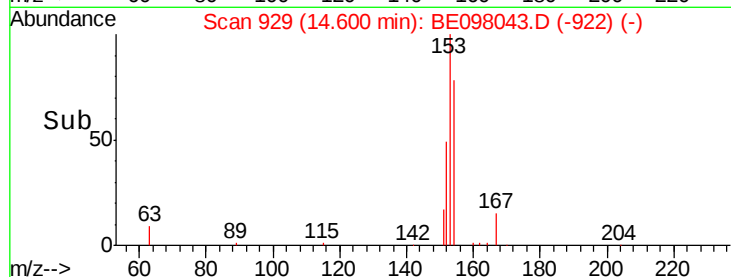
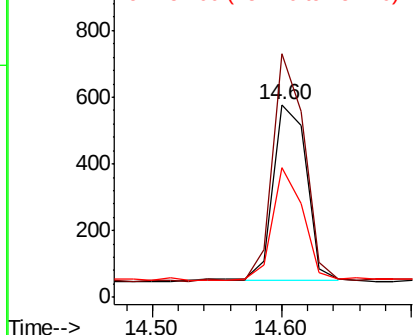
#17
Acenaphthene
Concen: 0.089 ng
RT: 14.60 min Scan# 929
Delta R.T. -0.00 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Instrument :
BNA_E
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

Tgt Ion:154 Resp: 941
Ion Ratio Lower Upper
154 100
153 124.4 92.6 139.0
152 58.7 45.5 68.3

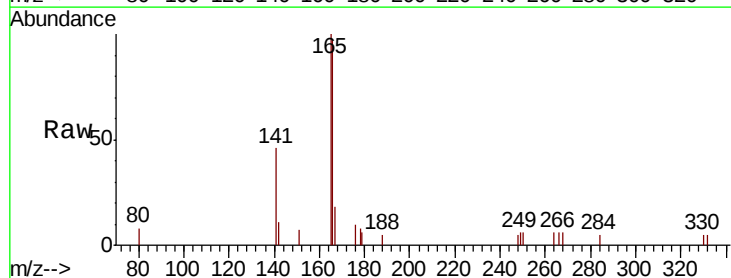


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

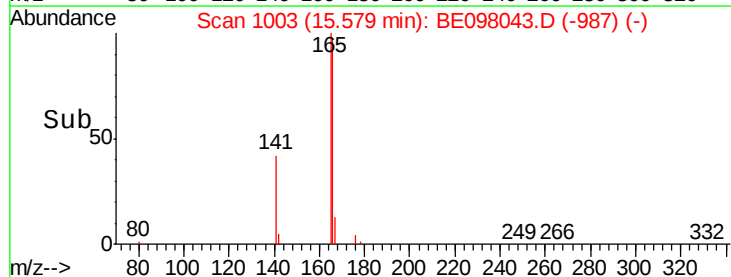
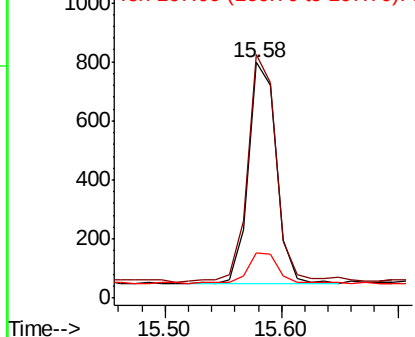


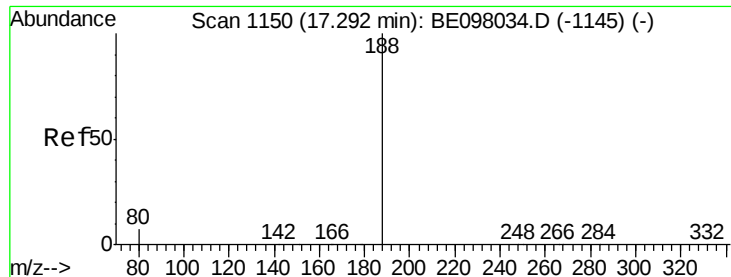
#18
Fluorene
Concen: 0.088 ng
RT: 15.58 min Scan# 1003
Delta R.T. -0.01 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Tgt Ion:166 Resp: 1257
Ion Ratio Lower Upper
166 100
165 106.0 78.2 117.4
167 14.8 11.0 16.6



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.29 min Scan# 1150

Delta R.T. 0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

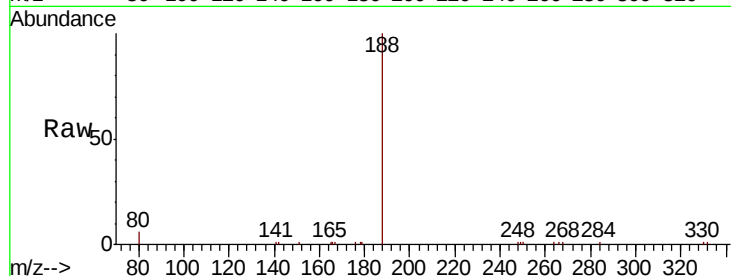
Tgt Ion:188 Resp: 9493

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

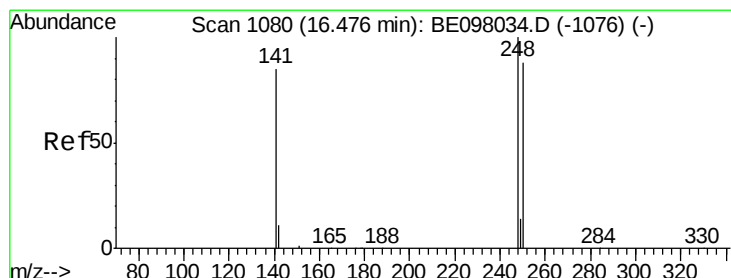
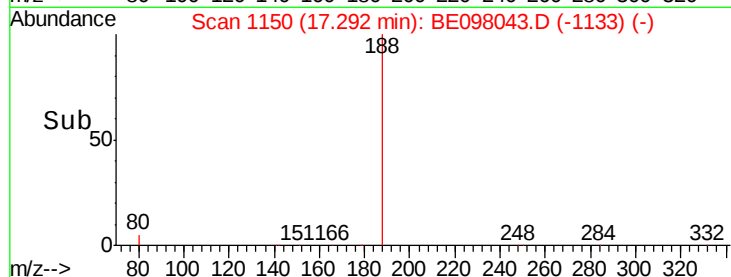
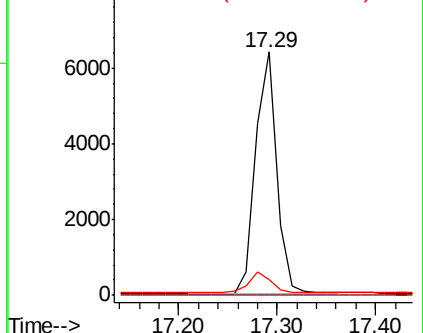
80 6.5 6.3 9.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.087 ng

RT: 16.48 min Scan# 1080

Delta R.T. 0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

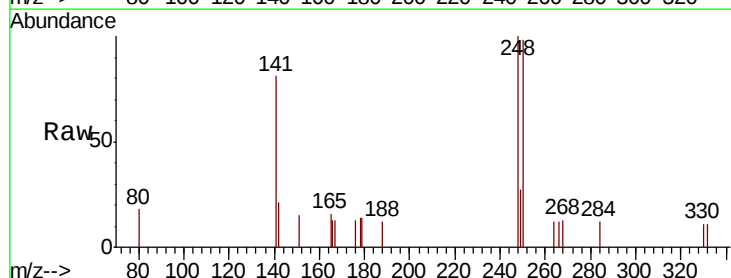
Tgt Ion:248 Resp: 497

Ion Ratio Lower Upper

248 100

250 97.9 75.1 112.7

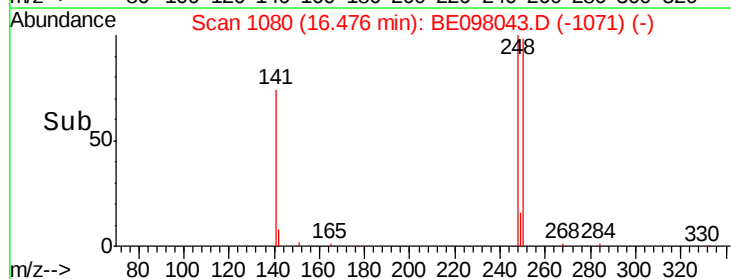
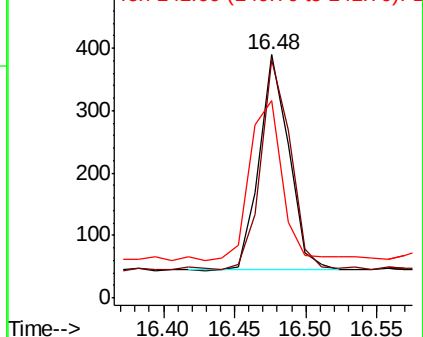
141 81.3 51.8 77.8#

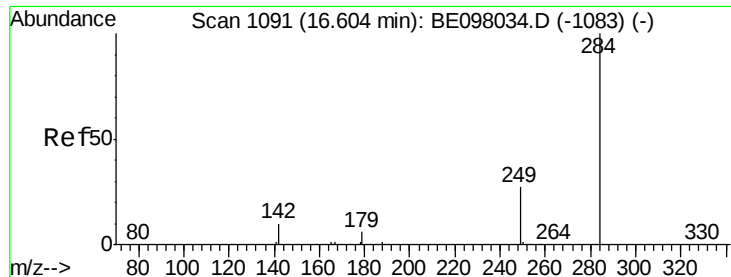


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

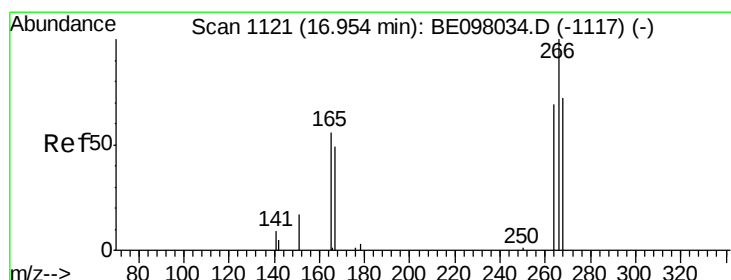
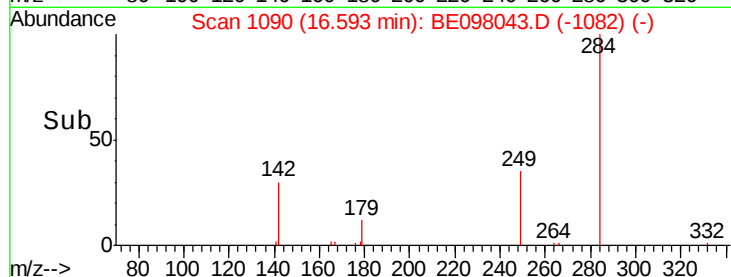
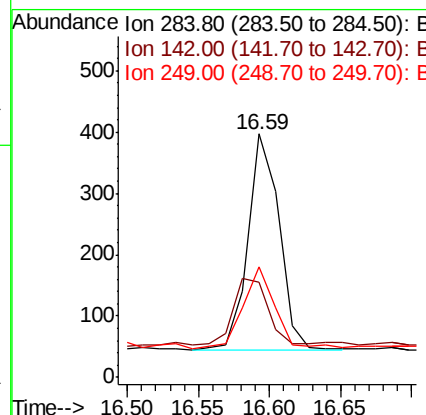
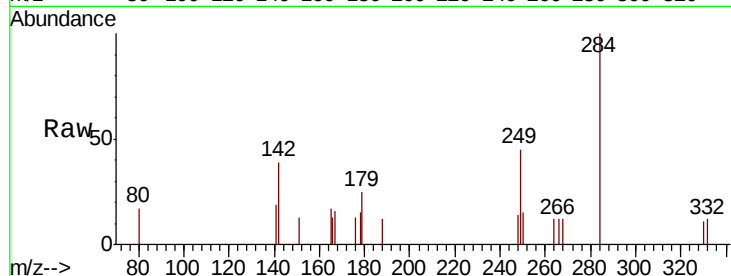




#21
Hexachlorobenzene
Concen: 0.089 ng
RT: 16.59 min Scan# 1090
Delta R.T. -0.01 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

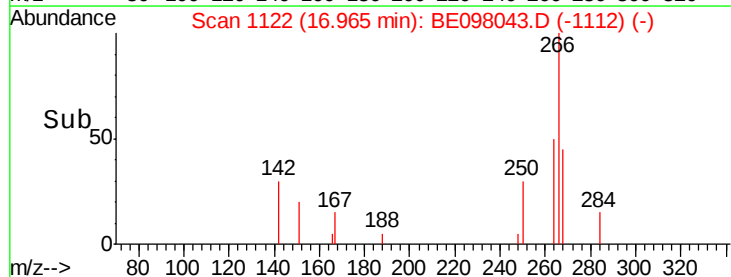
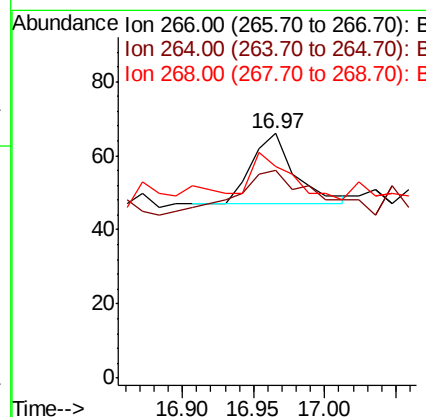
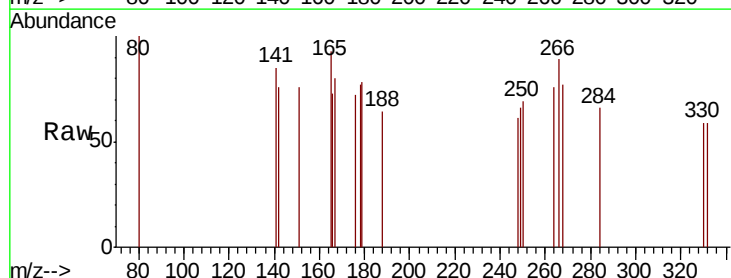
Instrument :
BNA_E
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018

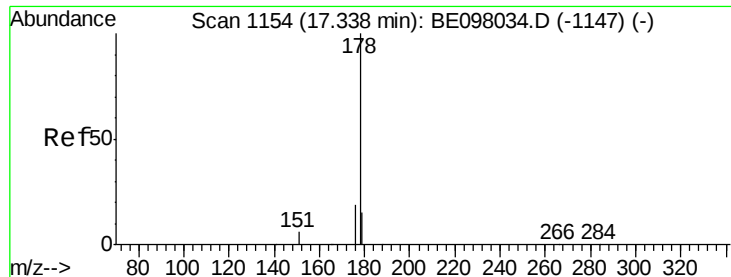
Tgt Ion:284 Resp: 535
Ion Ratio Lower Upper
284 100
142 35.1 25.9 38.9
249 38.3 26.6 40.0



#22
Pentachlorophenol
Concen: 0.080 ng
RT: 16.97 min Scan# 1122
Delta R.T. 0.01 min
Lab File: BE098043.D
Acq: 24 Oct 2018 17:57

Tgt Ion:266 Resp: 40
Ion Ratio Lower Upper
266 100
264 84.8 51.3 76.9#
268 86.4 50.1 75.1#





#23

Phenanthrene

Concen: 0.084 ng

RT: 17.42 min Scan# 1161

Delta R.T. 0.08 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

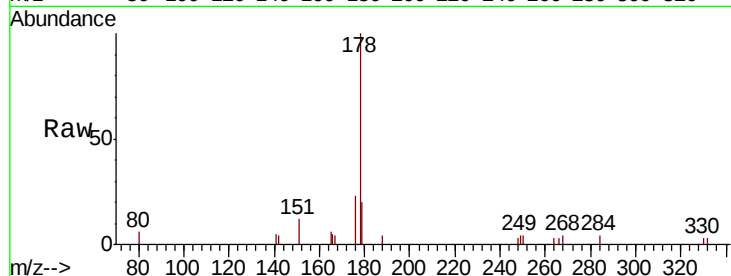
Tgt Ion:178 Resp: 1968

Ion Ratio Lower Upper

178 100

176 19.6 15.5 23.3

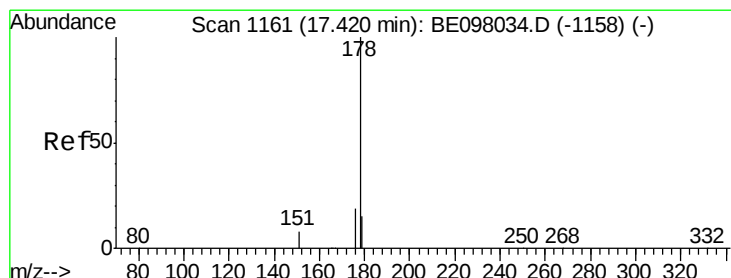
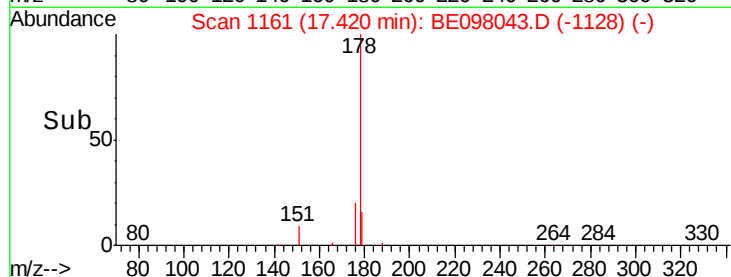
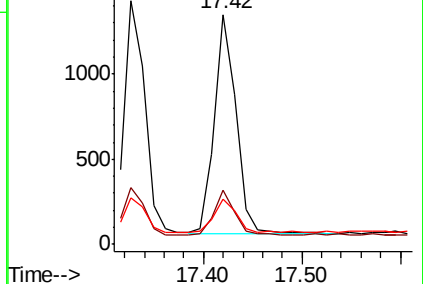
179 17.4 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.086 ng

RT: 17.42 min Scan# 1161

Delta R.T. 0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

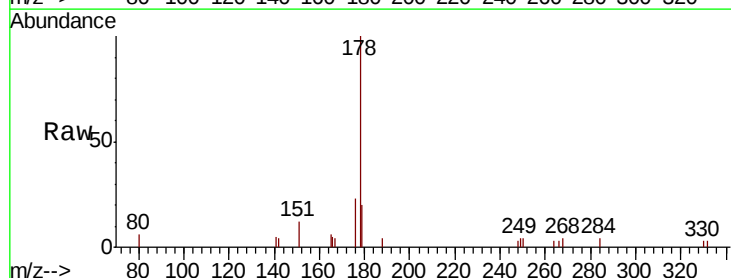
Tgt Ion:178 Resp: 1966

Ion Ratio Lower Upper

178 100

176 19.6 14.9 22.3

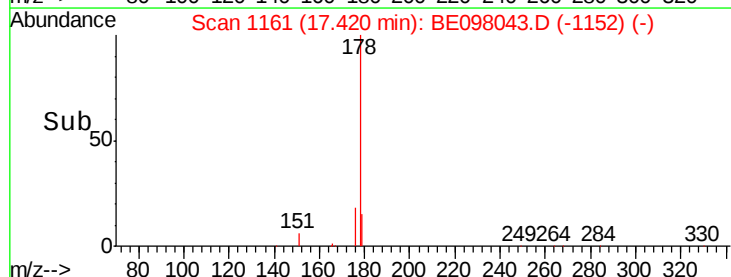
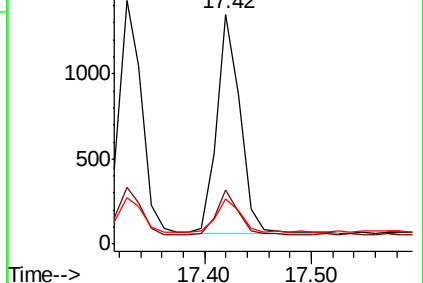
179 16.5 11.9 17.9

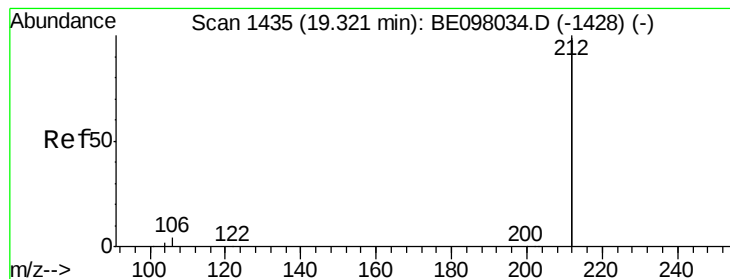


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.307 ng

RT: 19.32 min Scan# 1435

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

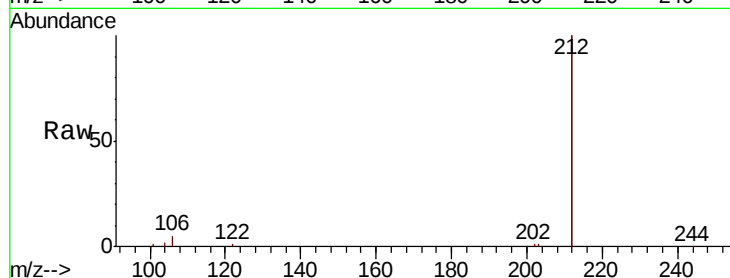
Tgt Ion:212 Resp: 37404

Ion Ratio Lower Upper

212 100

106 2.0 2.3 3.5#

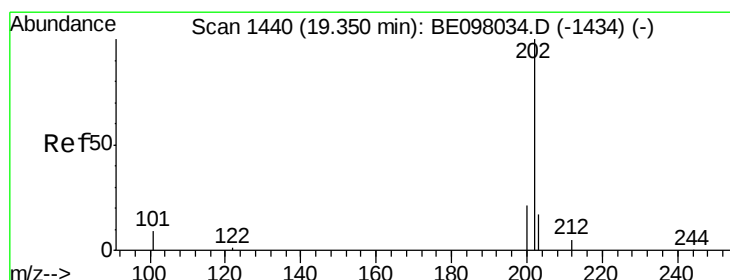
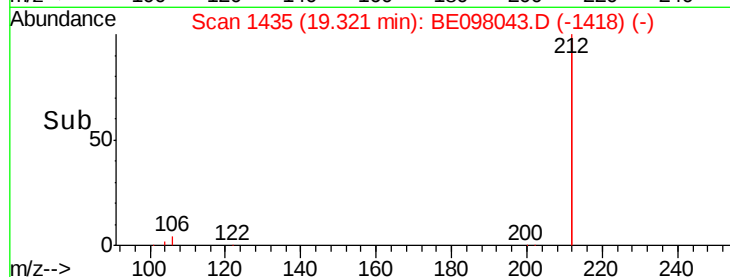
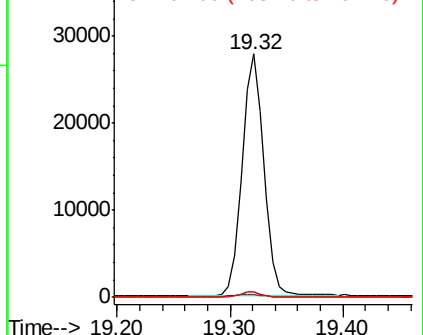
104 1.1 1.3 1.9#



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.090 ng

RT: 19.35 min Scan# 1440

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

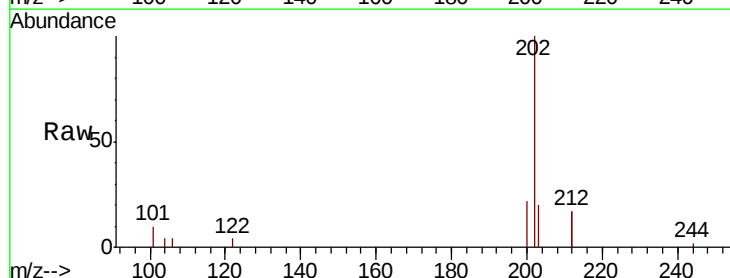
Tgt Ion:202 Resp: 2626

Ion Ratio Lower Upper

202 100

101 9.6 8.2 12.2

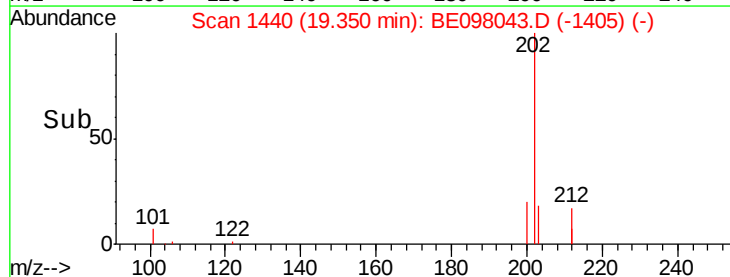
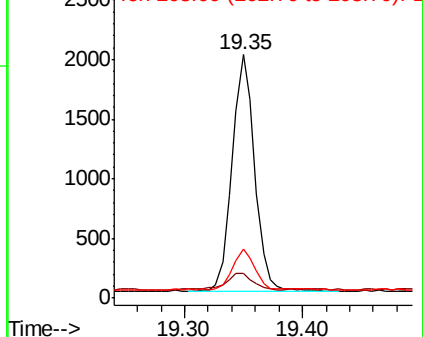
203 16.8 15.0 22.4

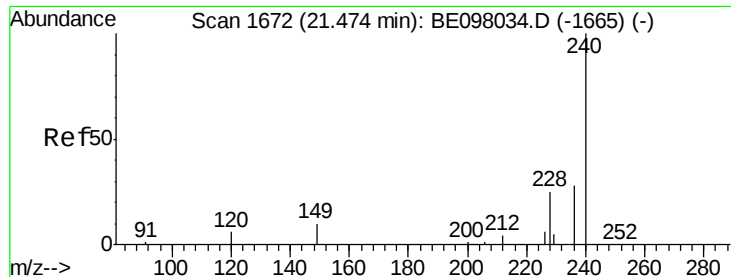


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.47 min Scan# 1672

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

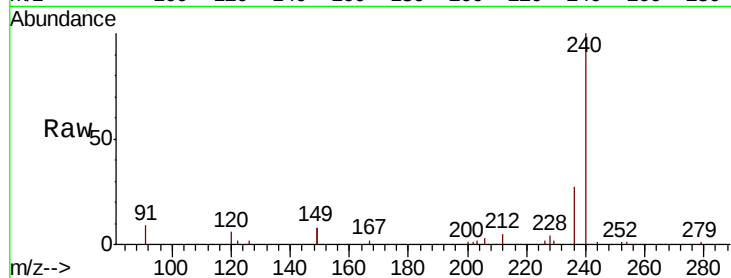
Tgt Ion:240 Resp: 11176

Ion Ratio Lower Upper

240 100

120 5.7 7.1 10.7#

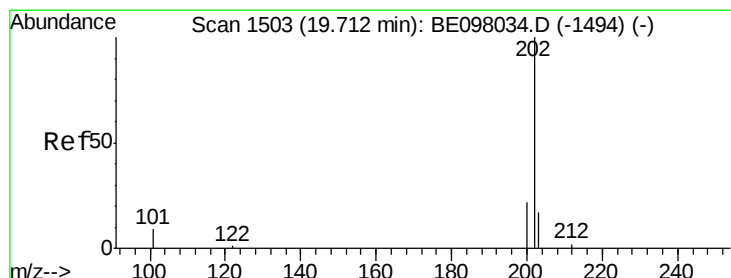
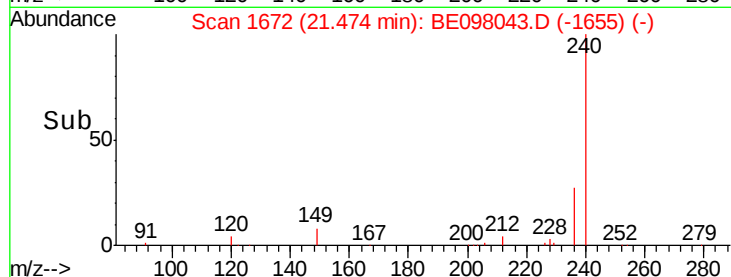
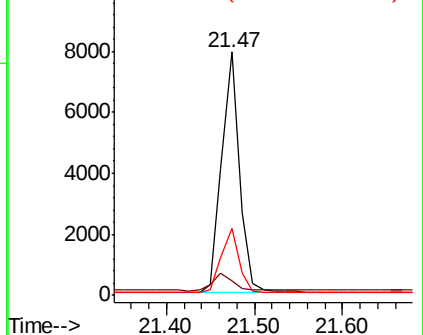
236 27.4 21.3 31.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.087 ng

RT: 19.71 min Scan# 1503

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

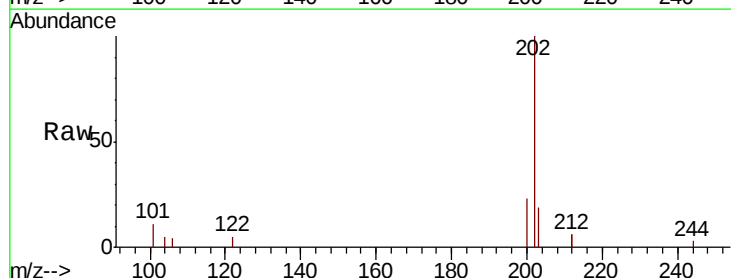
Tgt Ion:202 Resp: 2680

Ion Ratio Lower Upper

202 100

200 22.7 17.0 25.4

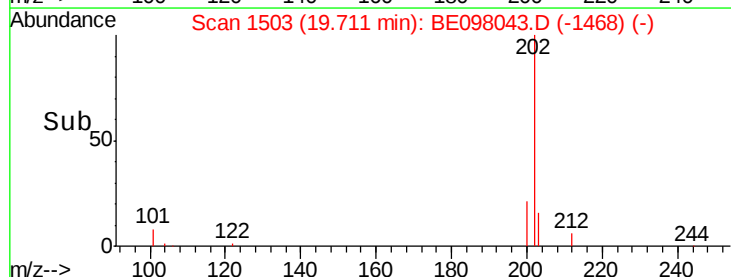
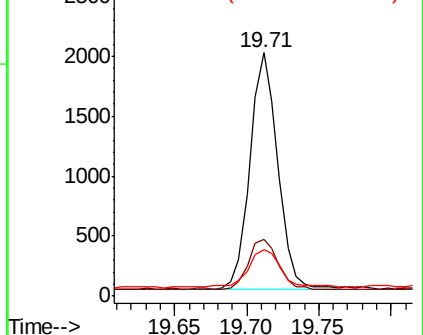
203 19.7 14.2 21.4

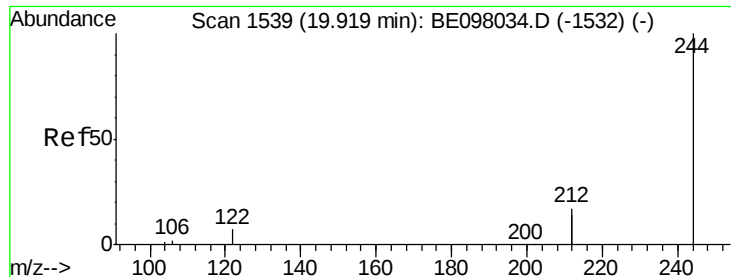


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.301 ng

RT: 19.91 min Scan# 1538

Delta R.T. -0.01 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

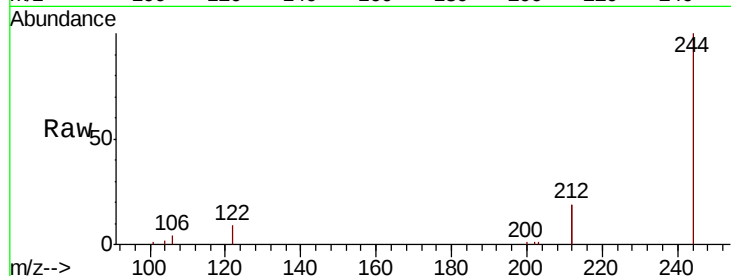
Tgt Ion:244 Resp: 7918

Ion Ratio Lower Upper

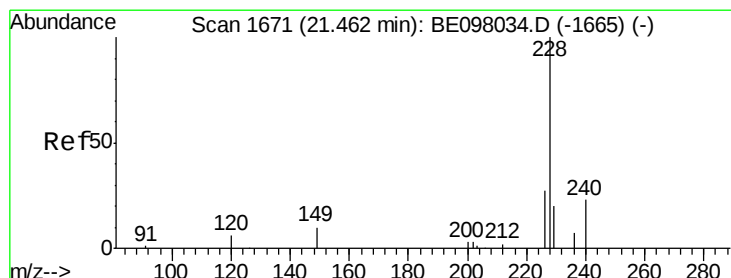
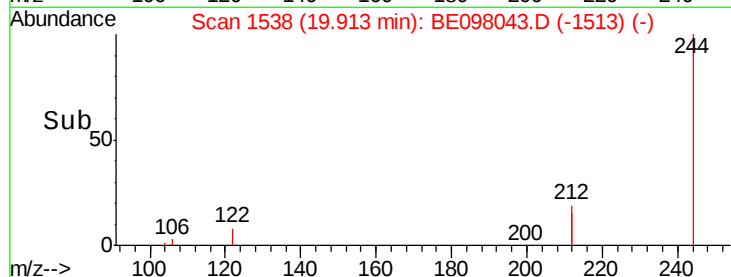
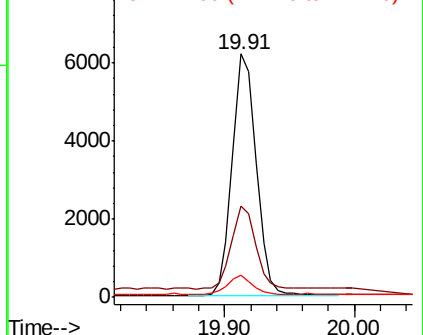
244 100

212 37.6 26.2 39.2

122 9.0 7.7 11.5



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.088 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

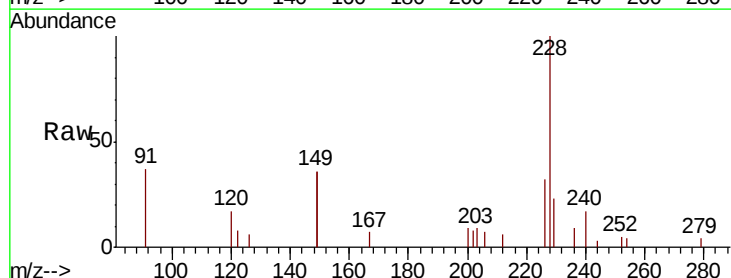
Tgt Ion:228 Resp: 2902

Ion Ratio Lower Upper

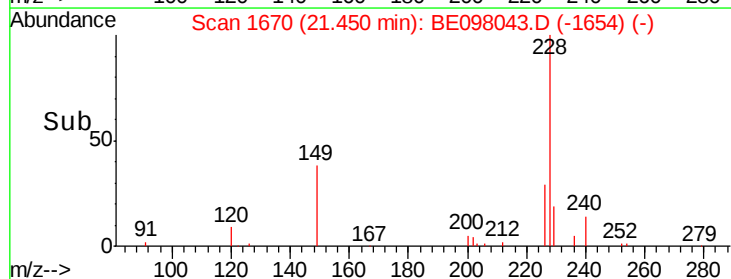
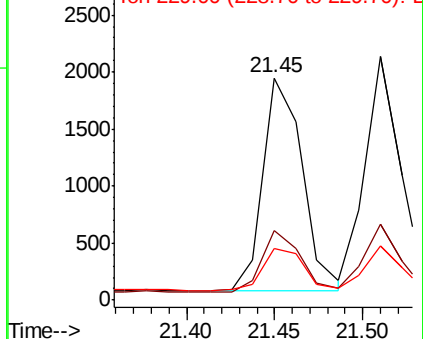
228 100

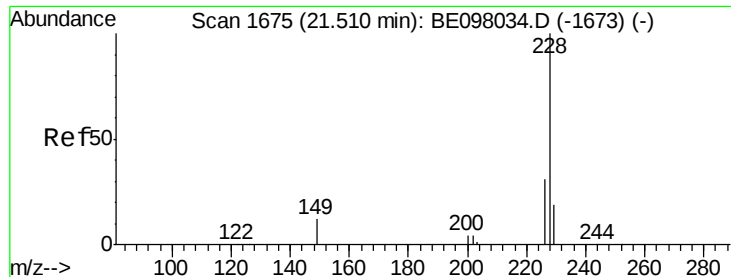
226 31.5 22.6 33.8

229 23.0 16.9 25.3



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.089 ng

RT: 21.51 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

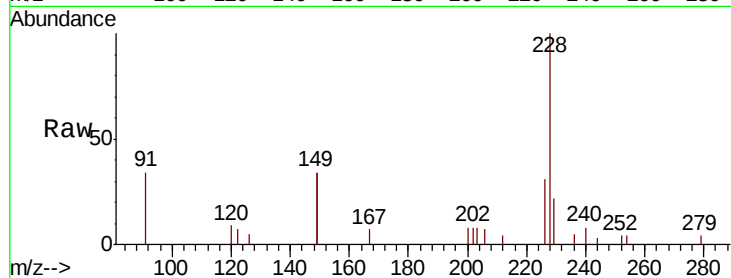
Tgt Ion:228 Resp: 2842

Ion Ratio Lower Upper

228 100

226 31.2 24.3 36.5

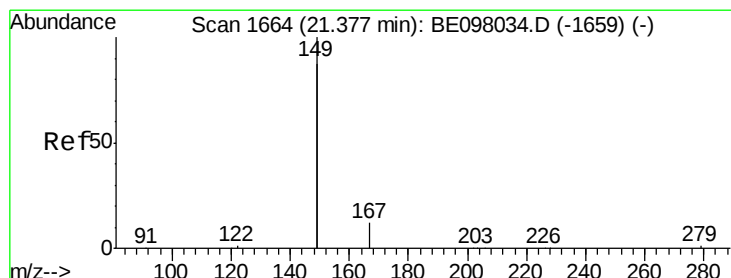
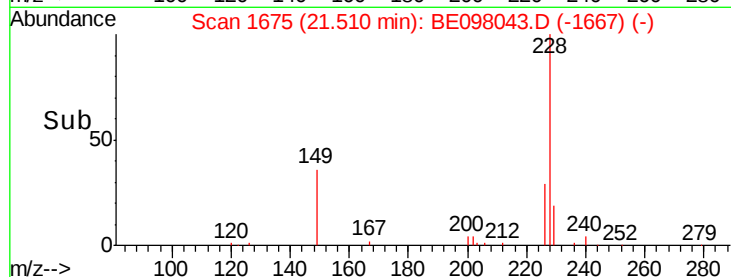
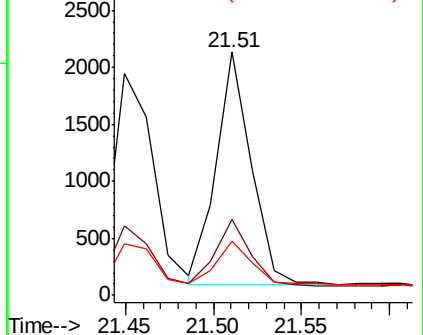
229 22.1 17.3 25.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.096 ng

RT: 21.38 min Scan# 1664

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

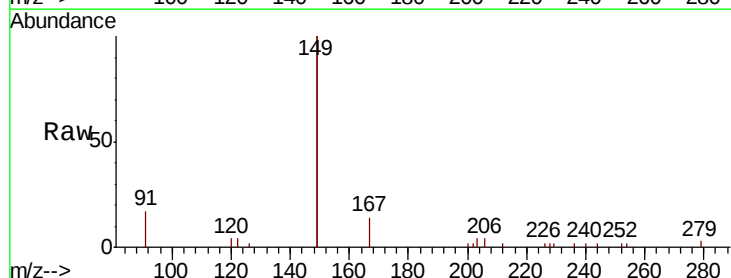
Tgt Ion:149 Resp: 7558

Ion Ratio Lower Upper

149 100

167 7.2 5.6 8.4

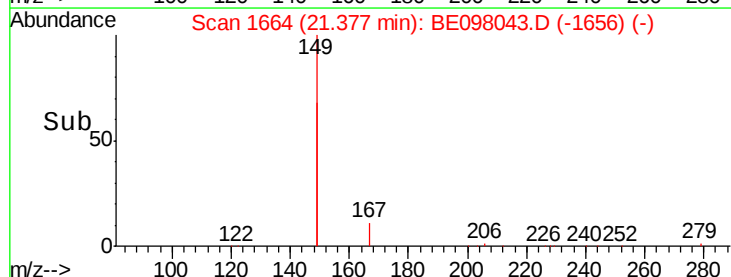
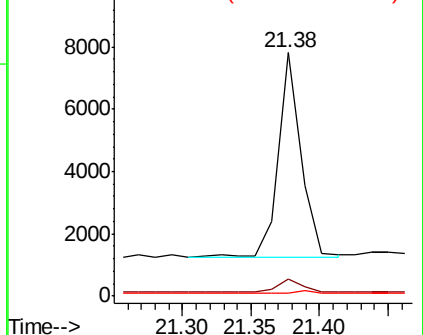
279 1.3 0.9 1.3#

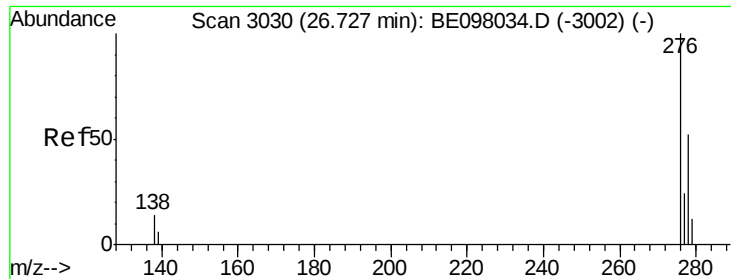


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.087 ng

RT: 26.72 min Scan# 3028

Delta R.T. -0.01 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

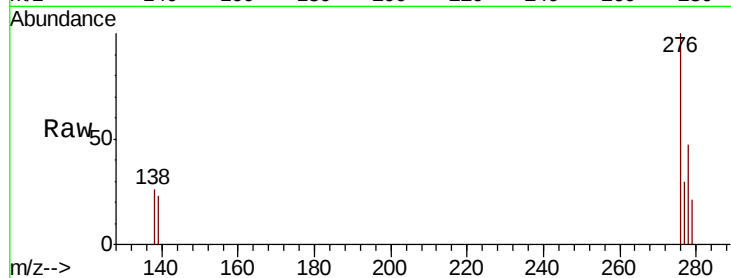
Tgt Ion:276 Resp: 3033

Ion Ratio Lower Upper

276 100

138 5.0 17.0 25.6#

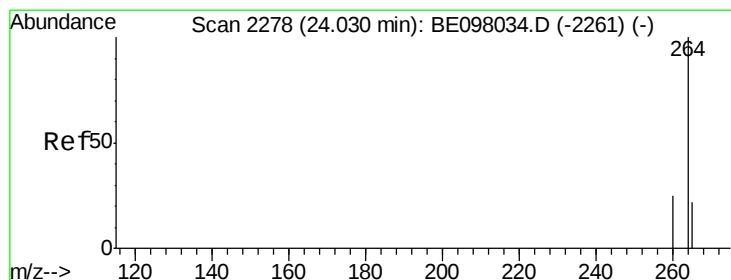
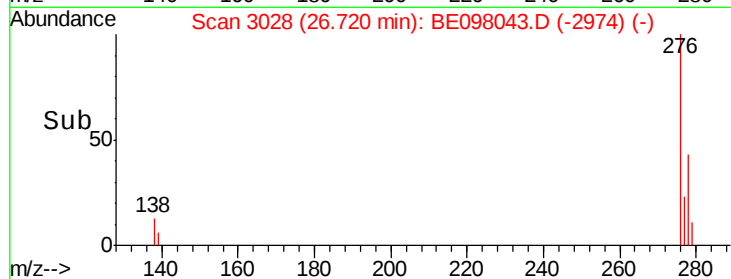
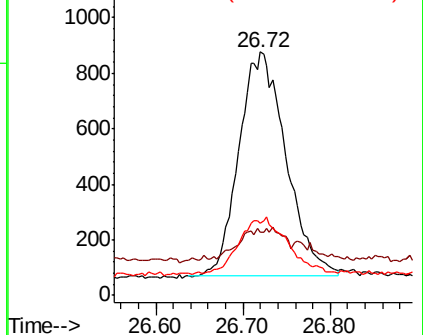
277 12.4 20.5 30.7#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.02 min Scan# 2276

Delta R.T. -0.01 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

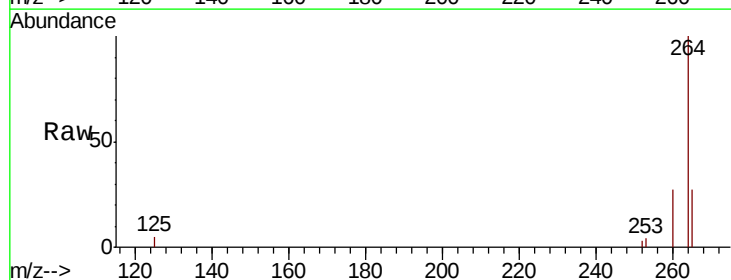
Tgt Ion:264 Resp: 11166

Ion Ratio Lower Upper

264 100

260 26.8 21.1 31.7

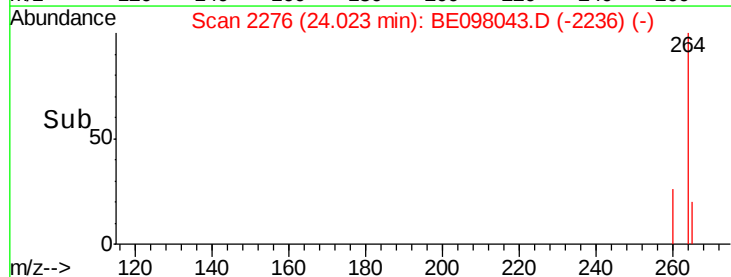
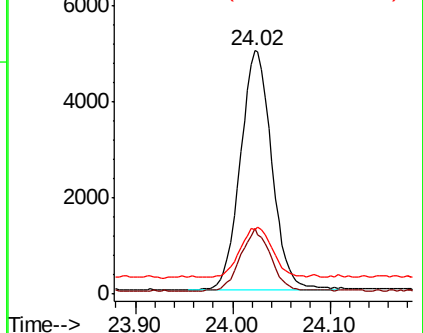
265 26.5 29.2 43.8#

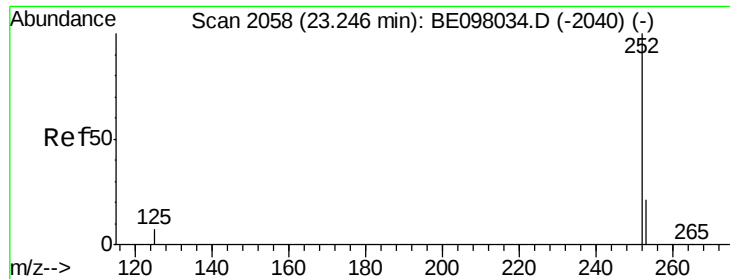


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.090 ng

RT: 23.24 min Scan# 2056

Delta R.T. -0.01 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

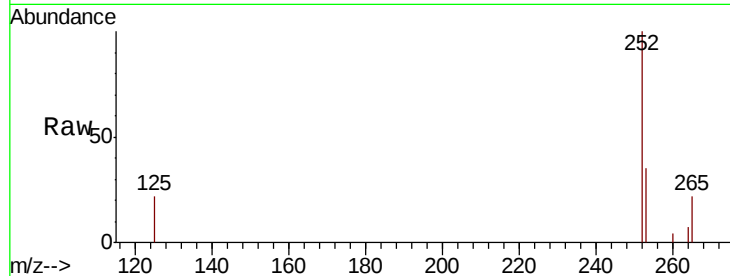
Tgt Ion:252 Resp: 2782

Ion Ratio Lower Upper

252 100

253 34.6 20.6 31.0#

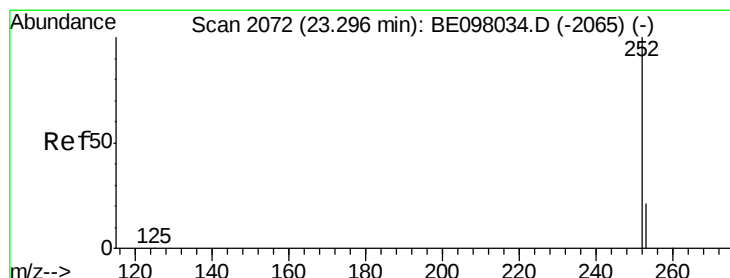
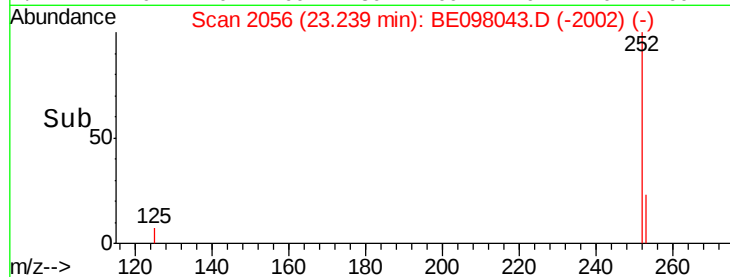
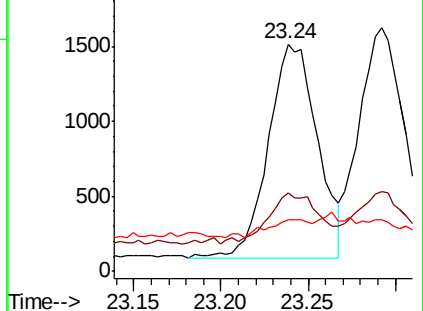
125 22.5 14.3 21.5#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.086 ng

RT: 23.29 min Scan# 2071

Delta R.T. -0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

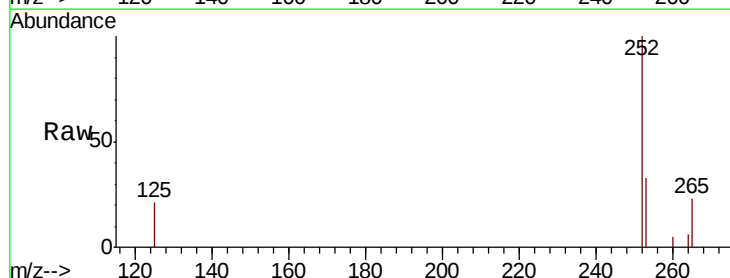
Tgt Ion:252 Resp: 2766

Ion Ratio Lower Upper

252 100

253 32.8 20.4 30.6#

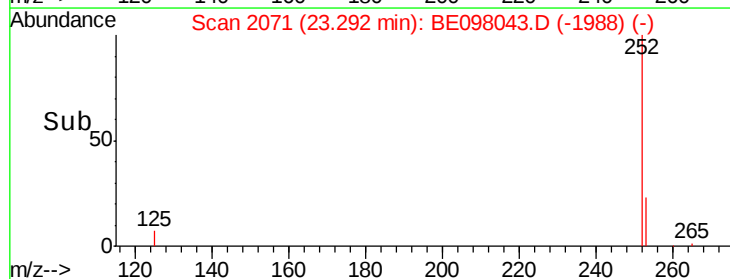
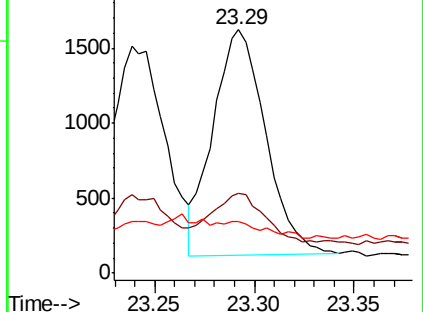
125 21.0 14.6 21.8

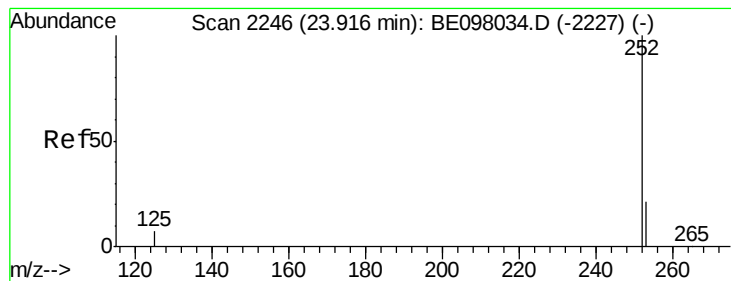


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.087 ng

RT: 23.91 min Scan# 2243

Delta R.T. -0.01 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018

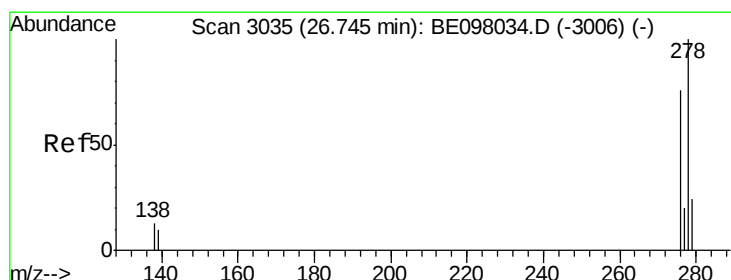
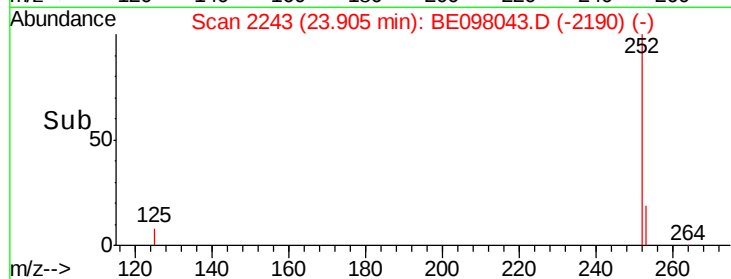
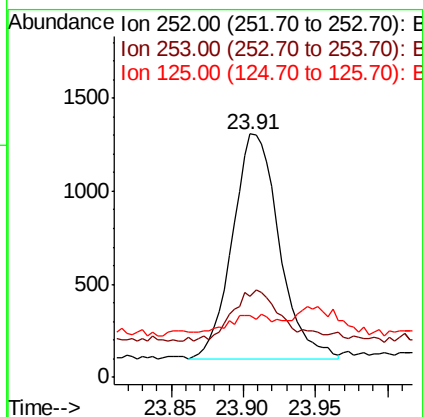
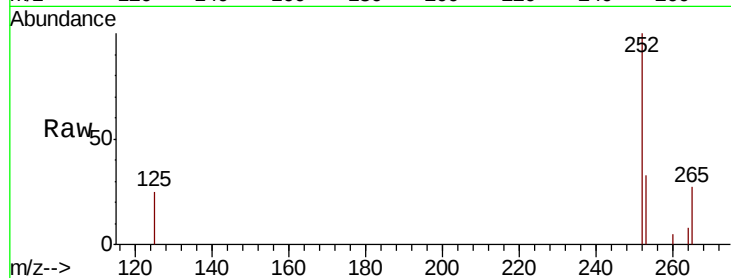
Tgt Ion:252 Resp: 2663

Ion Ratio Lower Upper

252 100

253 33.3 20.6 31.0#

125 25.5 15.6 23.4#



#38

Dibenzo(a,h)anthracene

Concen: 0.086 ng

RT: 26.75 min Scan# 3036

Delta R.T. 0.00 min

Lab File: BE098043.D

Acq: 24 Oct 2018 17:57

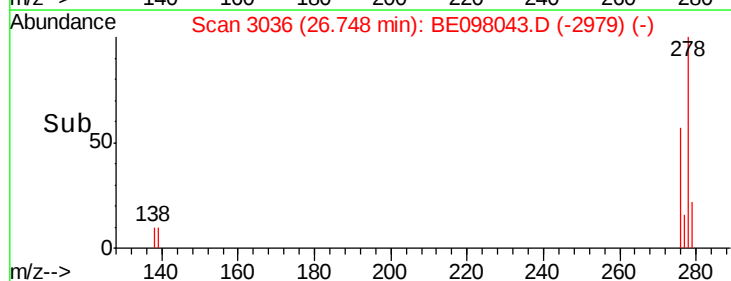
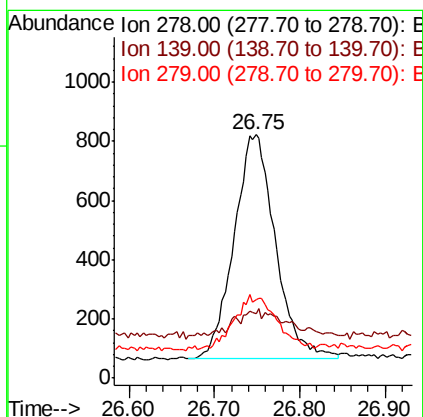
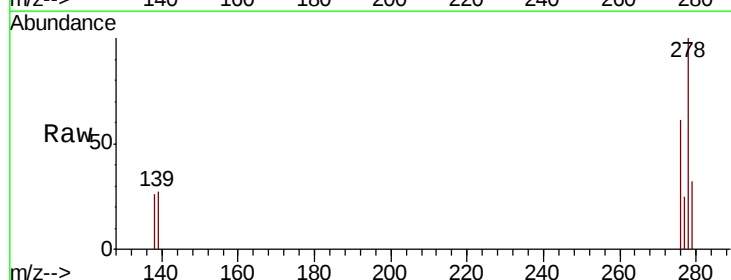
Tgt Ion:278 Resp: 2560

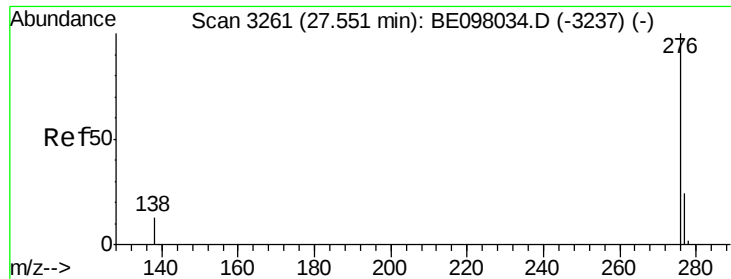
Ion Ratio Lower Upper

278 100

139 26.6 16.3 24.5#

279 32.0 21.4 32.2





#39

Benzo(g,h,i)perylene

Concen: 0.087 ng

RT: 27.54 min Scan# 3259

Delta R.T. -0.01 min

Lab File: BE098043.D

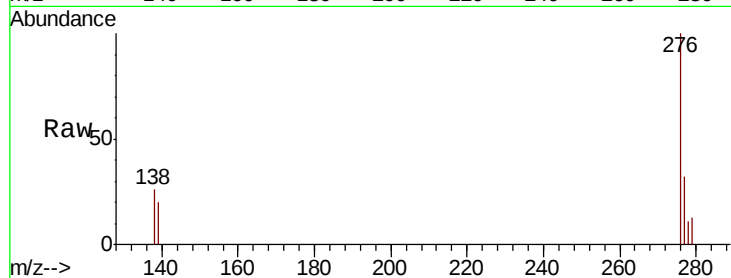
Acq: 24 Oct 2018 17:57

Instrument :

BNA_E

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018



Tgt Ion: 276 Resp: 2555

Ion Ratio Lower Upper

276 100

277 31.9 22.1 33.1

138 26.2 19.3 28.9

