

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE102418\
 Data File : BE098041.D
 Acq On : 24 Oct 2018 16:42
 Operator : SJ/JU
 Sample : J5164-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Quant Time: Oct 25 04:02:45 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	7.87	152	1130	0.40	ng	0.00
7) Naphthalene-d8	10.68	136	5627	0.40	ng	0.00
13) Acenaphthene-d10	14.54	164	4029	0.40	ng	0.00
19) Phenanthrene-d10	17.29	188	9698	0.40	ng	0.00
27) Chrysene-d12	21.48	240	11246	0.40	ng	0.00
34) Perylene-d12	24.03	264	11221	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.47	112	1528	0.45	ng	0.00
5) Phenol-d6	7.06	99	2464	0.43	ng	0.00
8) Nitrobenzene-d5	9.03	82	2729	0.46	ng	0.00
11) 2-Methylnaphthalene-d10	12.28	152	4153	0.42	ng	0.00
14) 2,4,6-Tribromophenol	16.03	330	752	0.37	ng	0.00
15) 2-Fluorobiphenyl	13.16	172	6787	0.42	ng	0.00
25) Fluoranthene-d10	19.32	212	49681	0.40	ng	0.00
29) Terphenyl-d14	19.92	244	10628	0.40	ng	0.00

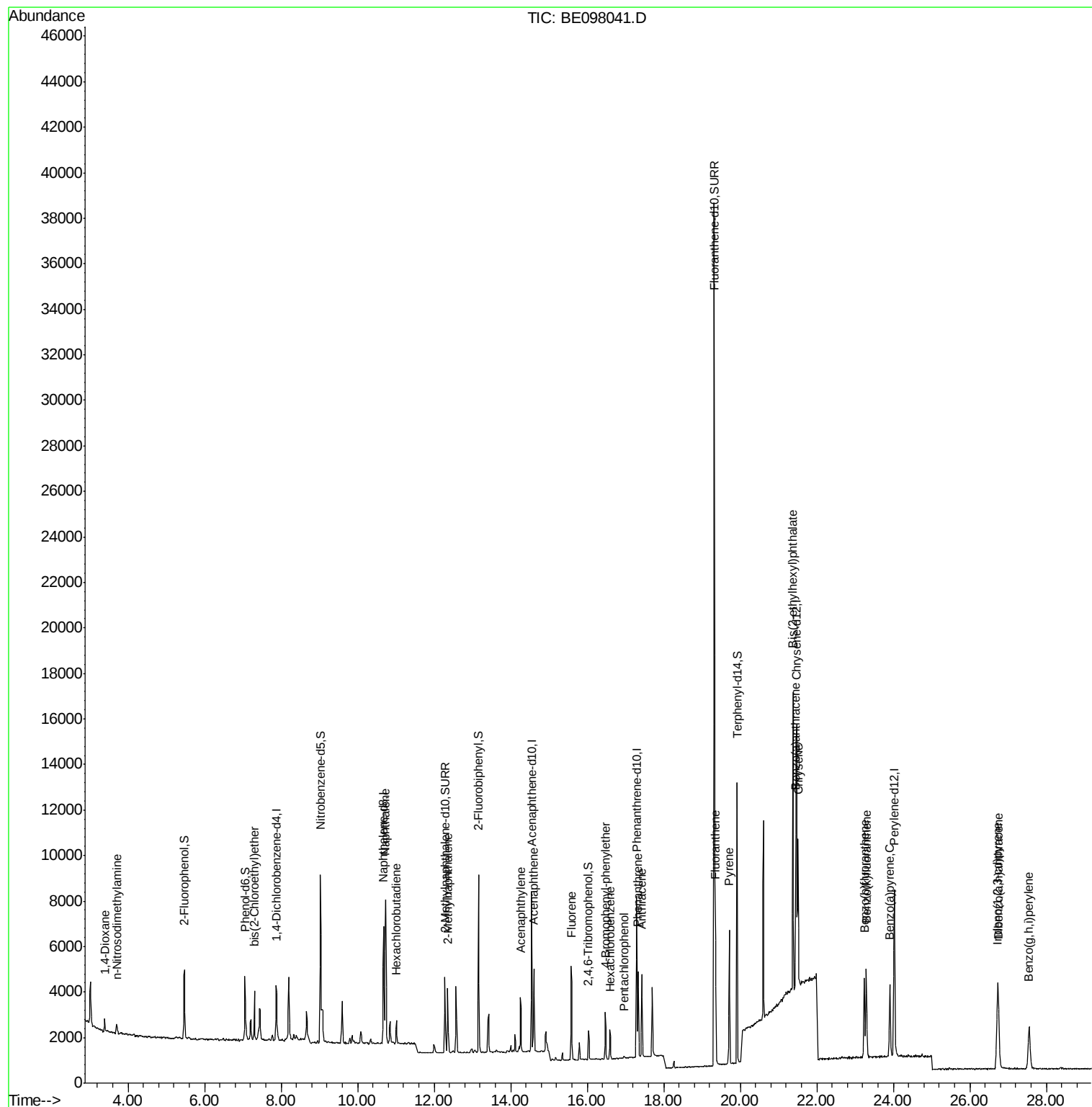
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.38	88	321	0.185	ng	# 93
3) n-Nitrosodimethylamine	3.70	42	447	0.193	ng	# 75
6) bis(2-Chloroethyl)ether	7.30	93	714	0.179	ng	92
9) Naphthalene	10.73	128	9952	0.178	ng	# 98
10) Hexachlorobutadiene	11.02	225	662	0.175	ng	96
12) 2-Methylnaphthalene	12.35	142	1786	0.177	ng	# 89
16) Acenaphthylene	14.26	152	3111	0.171	ng	99
17) Acenaphthene	14.60	154	1932	0.175	ng	98
18) Fluorene	15.59	166	2534	0.170	ng	95
20) 4-Bromophenyl-phenylether	16.48	248	1033	0.176	ng	# 87
21) Hexachlorobenzene	16.60	284	1110	0.182	ng	100
22) Pentachlorophenol	16.95	266	87	0.171	ng	# 76
23) Phenanthrene	17.33	178	4186	0.176	ng	99
24) Anthracene	17.42	178	3909	0.167	ng	98
26) Fluoranthene	19.35	202	5165	0.174	ng	# 96
28) Pyrene	19.71	202	5452	0.176	ng	99
30) Benzo(a)anthracene	21.45	228	5993	0.180	ng	98
31) Chrysene	21.51	228	5555	0.172	ng	99
32) Bis(2-ethylhexyl)phthalate	21.38	149	13477	0.171	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.72	276	6045	0.171	ng	# 93
35) Benzo(b)fluoranthene	23.24	252	5322	0.171	ng	94
36) Benzo(k)fluoranthene	23.29	252	5578	0.172	ng	95
37) Benzo(a)pyrene	23.91	252	5259	0.172	ng	94
38) Dibenzo(a,h)anthracene	26.74	278	5048	0.169	ng	94
39) Benzo(g,h,i)perylene	27.55	276	4981	0.168	ng	96

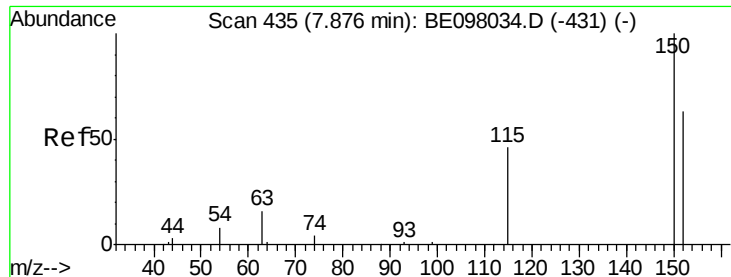
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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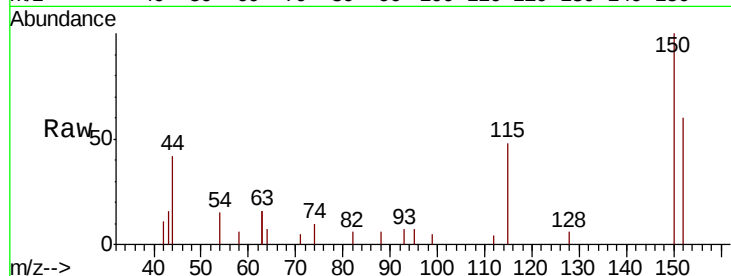


#1

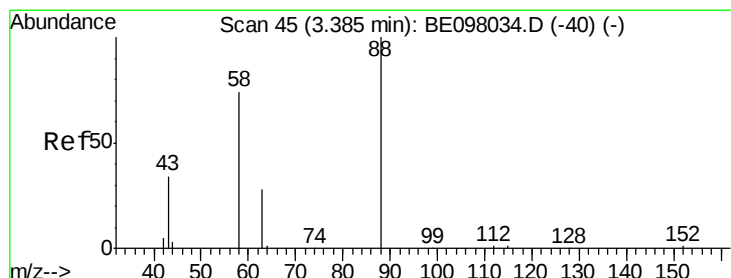
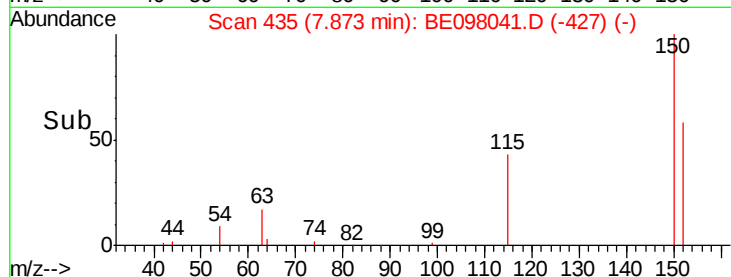
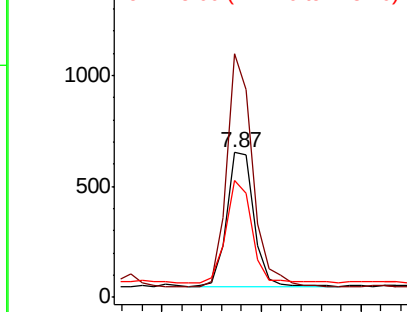
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.87 min Scan# 435
Delta R.T. -0.00 min
Lab File: BE098041.D
Acq: 24 Oct 2018 16:42

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion:152 Resp: 1130
Ion Ratio Lower Upper
152 100
150 168.0 118.2 177.4
115 80.2 50.9 76.3#



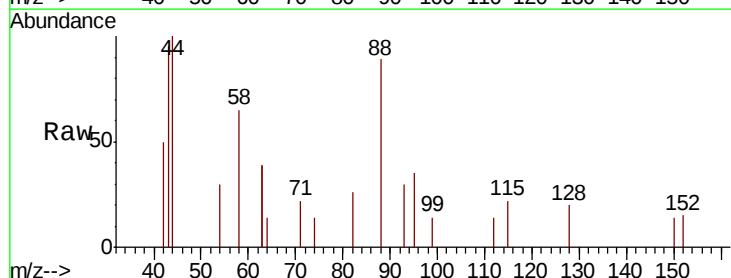
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



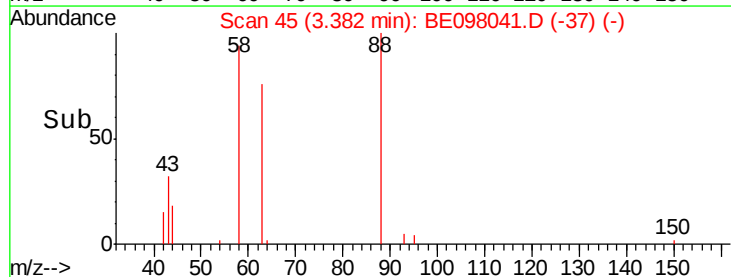
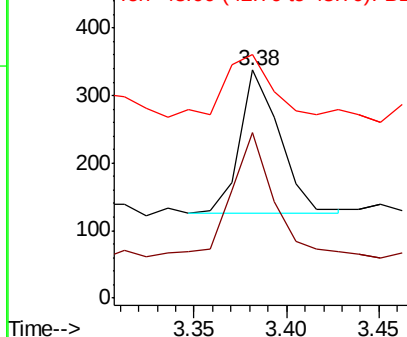
#2

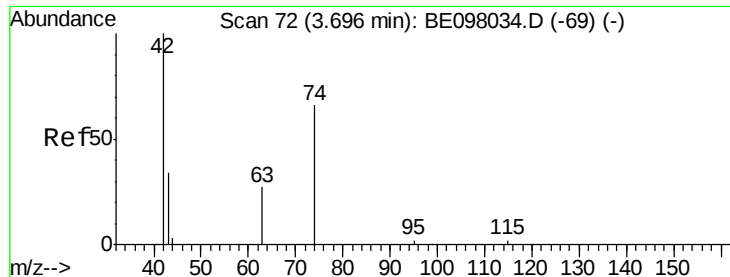
1,4-Dioxane
Concen: 0.185 ng
RT: 3.38 min Scan# 45
Delta R.T. -0.00 min
Lab File: BE098041.D
Acq: 24 Oct 2018 16:42

Tgt Ion: 88 Resp: 321
Ion Ratio Lower Upper
88 100
58 93.8 73.2 109.8
43 56.1 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: 0.193 ng

RT: 3.70 min Scan# 73

Delta R.T. 0.01 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

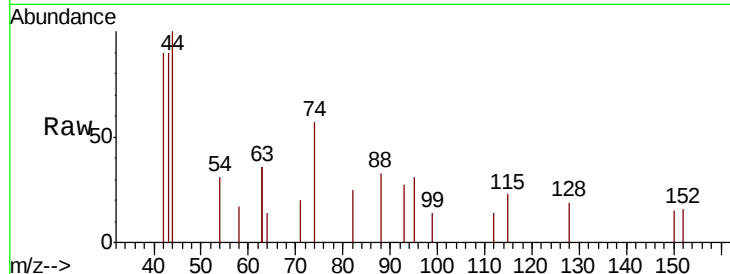
Tot Ion: 42 Resp: 447

Ion Ratio Lower Upper

42 100

74 73.2 77.6 116.4#

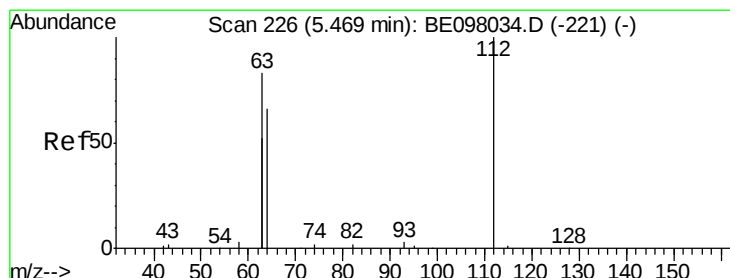
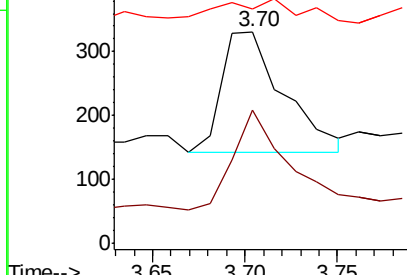
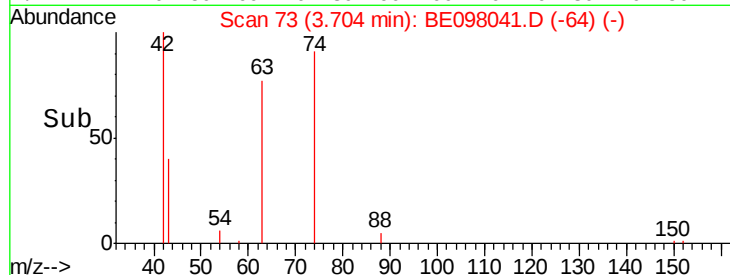
44 20.8 7.6 11.4#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.447 ng

RT: 5.47 min Scan# 226

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

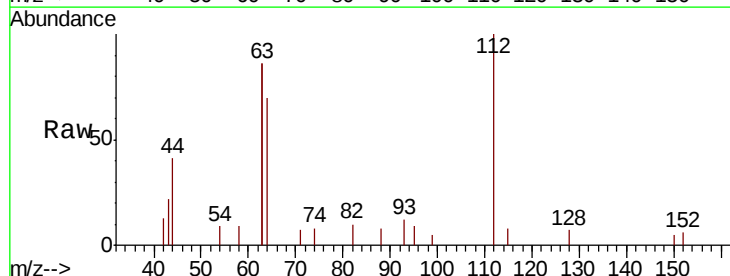
Tgt Ion: 112 Resp: 1528

Ion Ratio Lower Upper

112 100

64 79.8 58.9 88.3

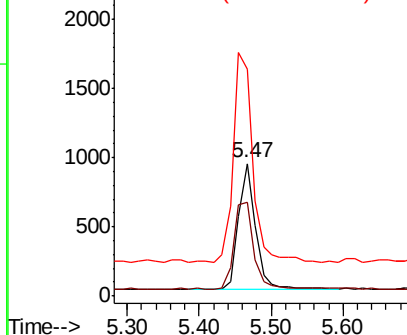
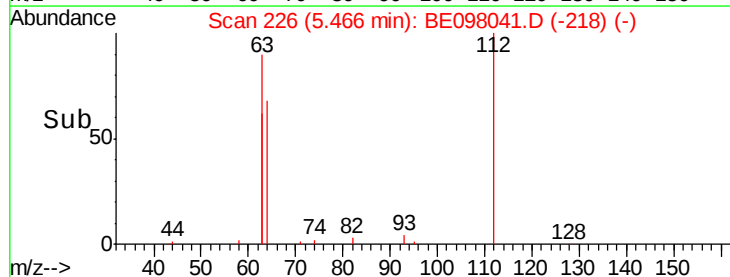
63 186.1 120.3 180.5#

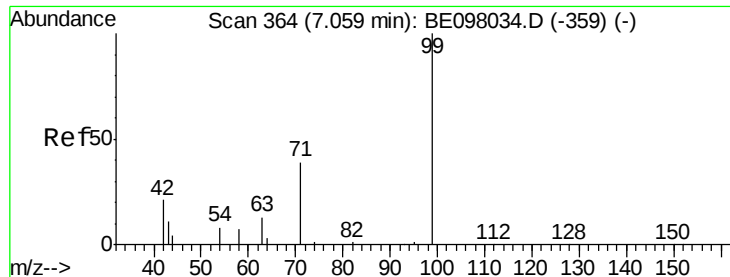


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.432 ng

RT: 7.06 min Scan# 364

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

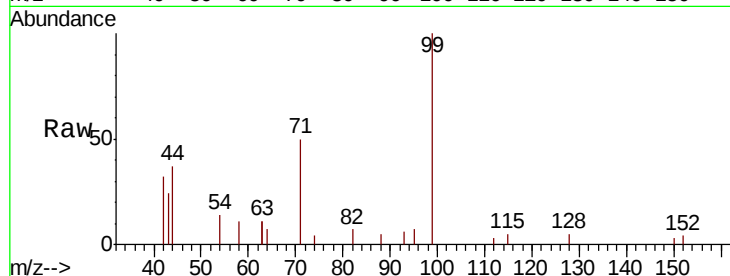
Tot Ion: 99 Resp: 2464

Ion Ratio Lower Upper

99 100

42 34.6 19.9 29.9#

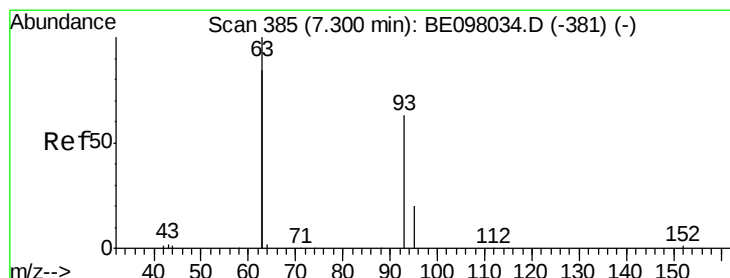
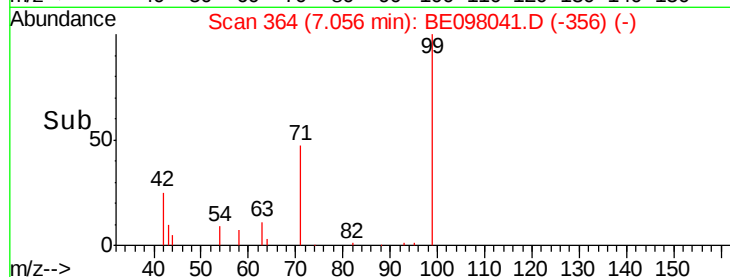
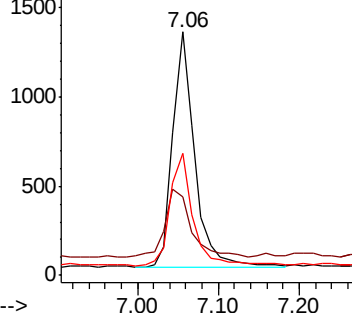
71 49.5 27.8 41.8#



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: 0.179 ng

RT: 7.30 min Scan# 385

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

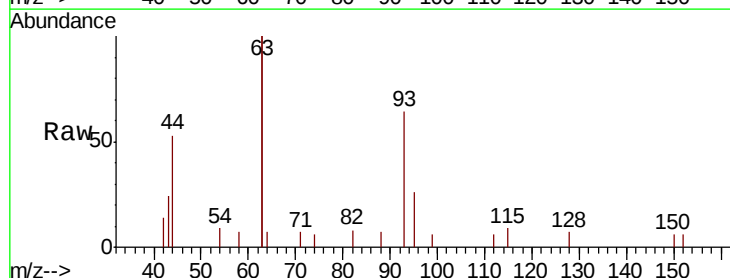
Tgt Ion: 93 Resp: 714

Ion Ratio Lower Upper

93 100

63 341.0 259.0 388.4

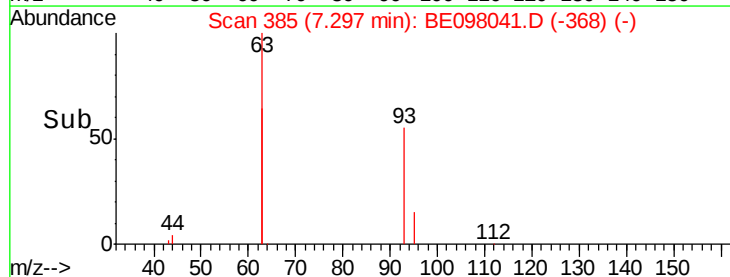
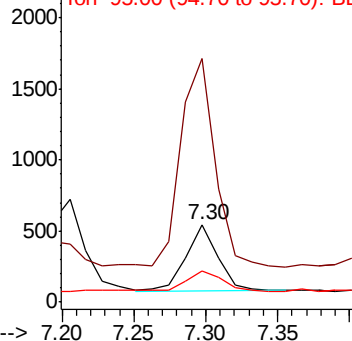
95 37.1 27.8 41.8

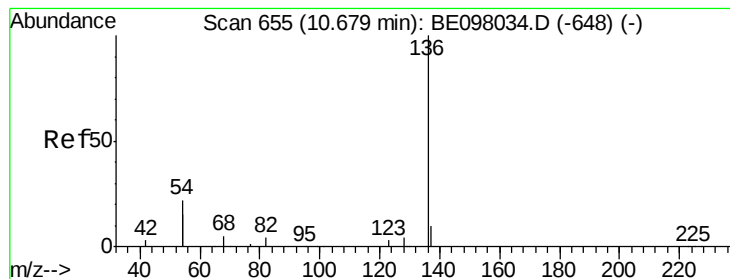


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tot Ion:136 Resp: 5627

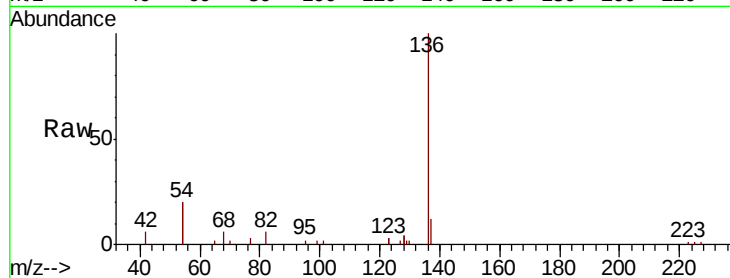
Ion Ratio Lower Upper

136 100

137 11.8 9.6 14.4

54 41.0 27.7 41.5

68 6.5 5.3 7.9

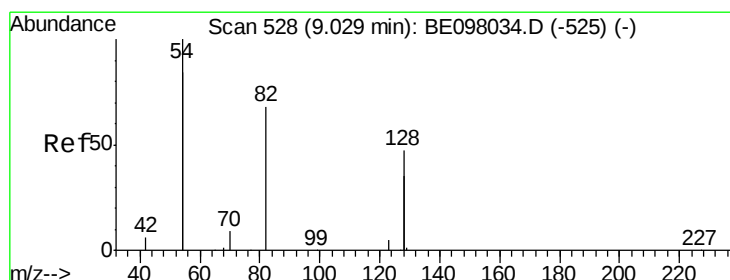
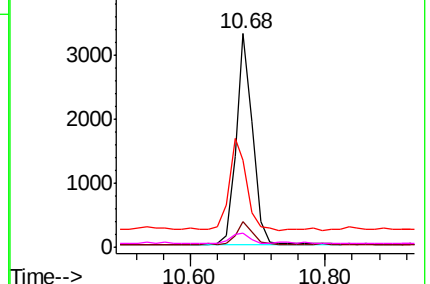
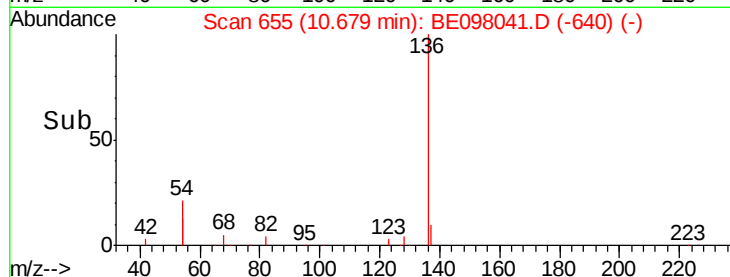


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.456 ng

RT: 9.03 min Scan# 528

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

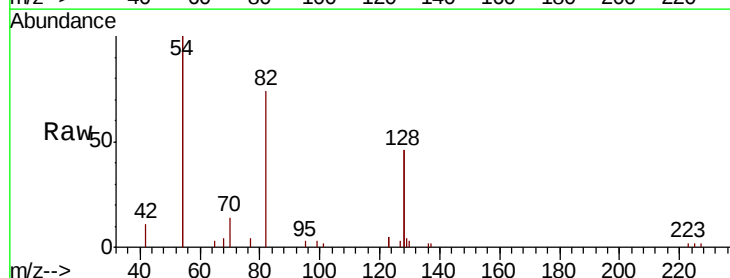
Tgt Ion: 82 Resp: 2729

Ion Ratio Lower Upper

82 100

128 124.9 129.9 194.9#

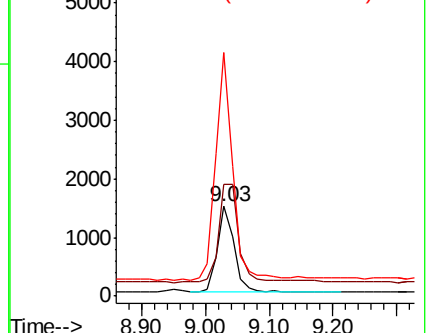
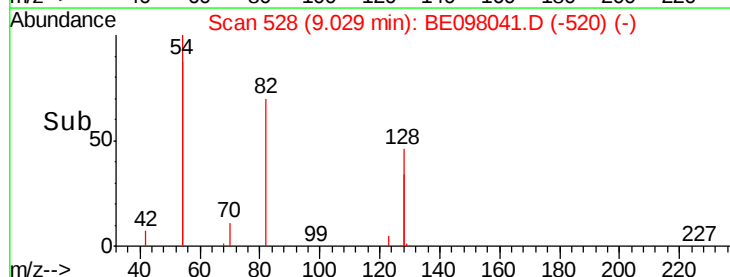
54 271.1 174.0 261.0#

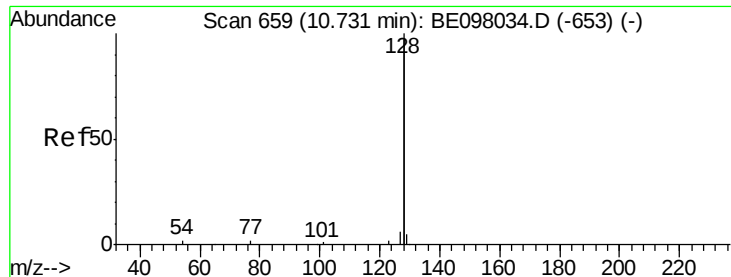


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.178 ng

RT: 10.73 min Scan# 659

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

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ClientSampleId :

LOQ-SOIL-02-QT4-2018

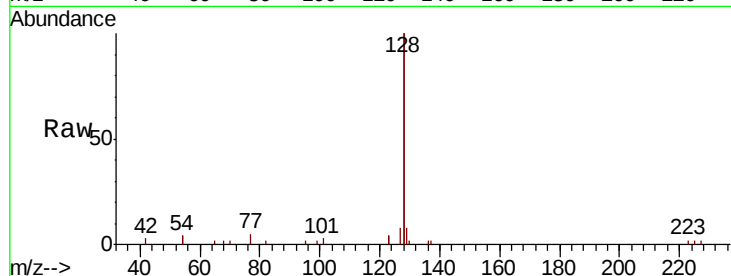
Tot Ion:128 Resp: 9952

Ion Ratio Lower Upper

128 100

129 4.0 2.5 3.7#

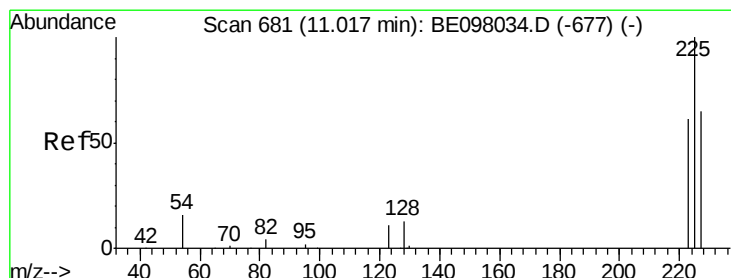
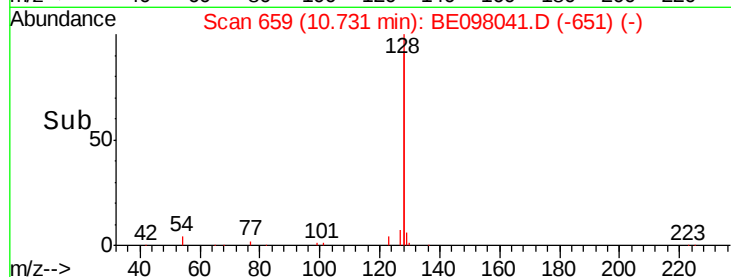
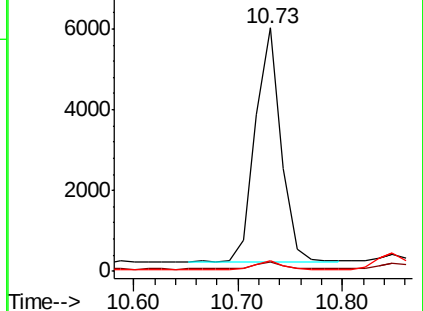
127 4.2 2.8 4.2



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: 0.175 ng

RT: 11.02 min Scan# 681

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

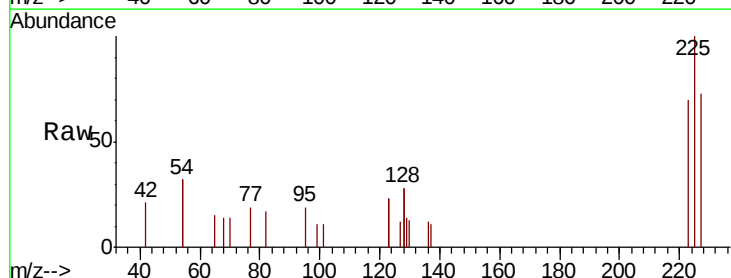
Tgt Ion:225 Resp: 662

Ion Ratio Lower Upper

225 100

223 67.2 51.8 77.8

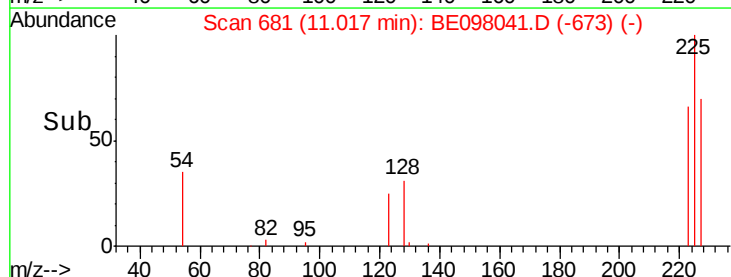
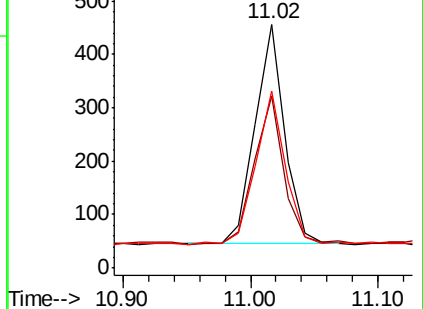
227 69.6 53.0 79.6

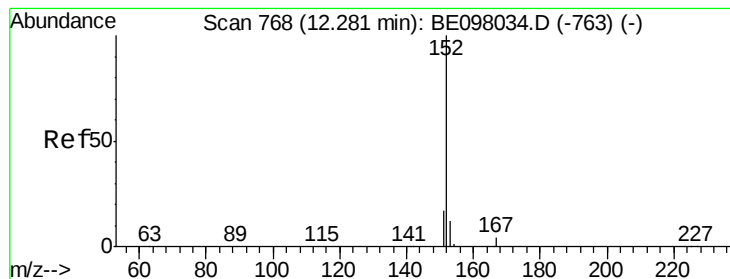


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.416 ng

RT: 12.28 min Scan# 768

Delta R.T. 0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

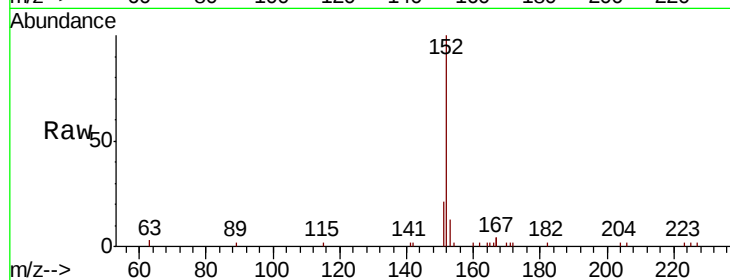
LOQ-SOIL-02-QT4-2018

Tot Ion:152 Resp: 4153

Ion Ratio Lower Upper

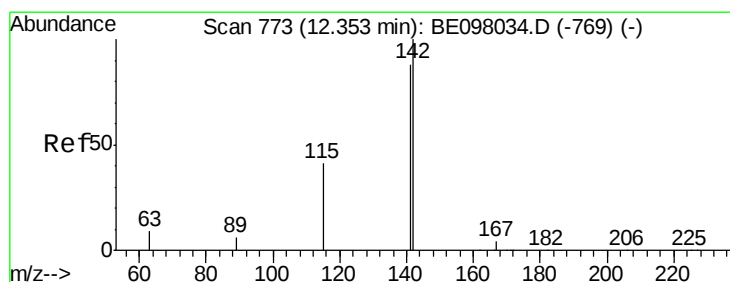
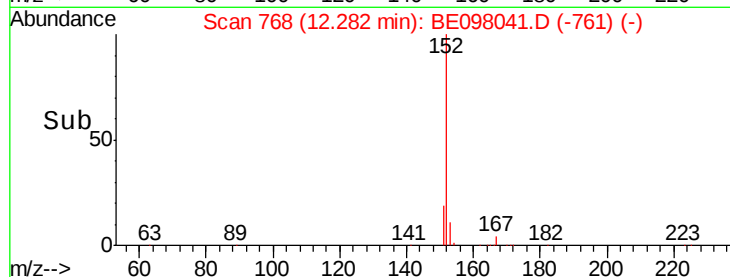
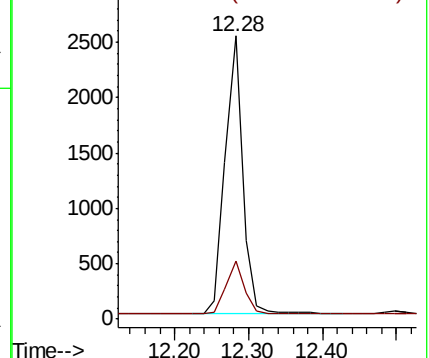
152 100

151 19.6 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.177 ng

RT: 12.35 min Scan# 773

Delta R.T. 0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

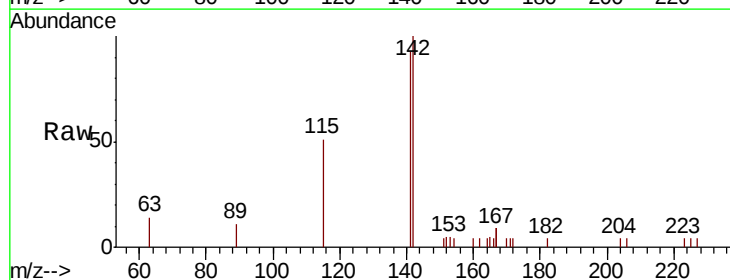
Tgt Ion:142 Resp: 1786

Ion Ratio Lower Upper

142 100

141 93.3 69.8 104.6

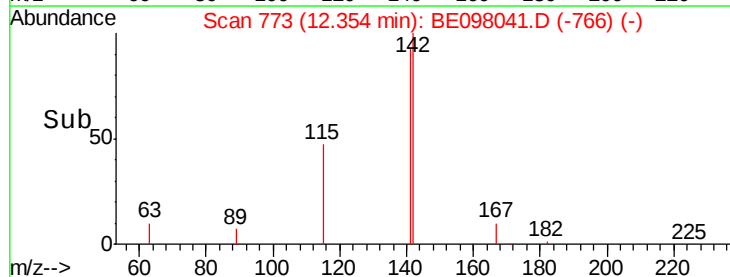
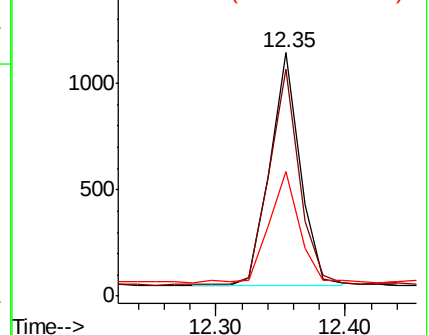
115 51.0 30.5 45.7#

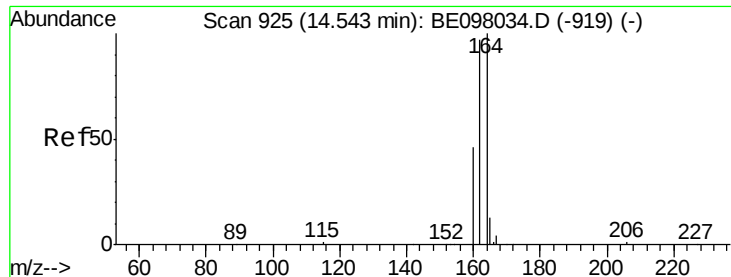


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

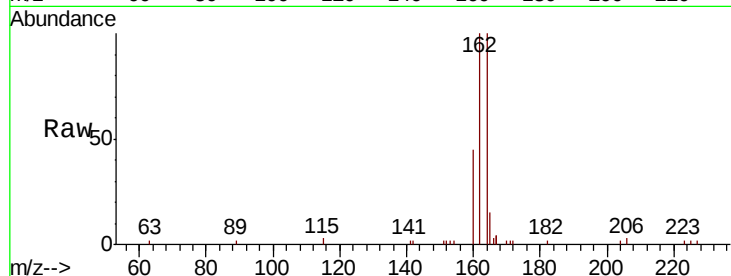




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.54 min Scan# 925
Delta R.T. 0.00 min
Lab File: BE098041.D
Acq: 24 Oct 2018 16:42

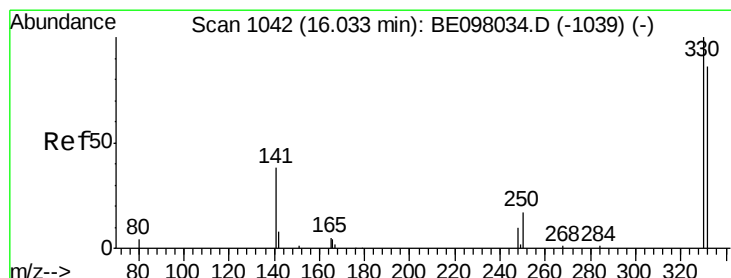
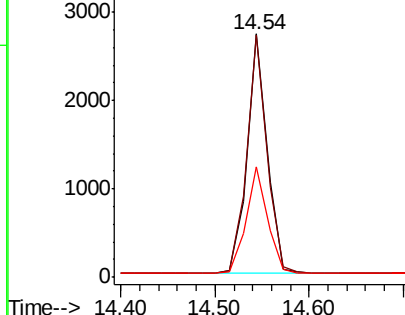
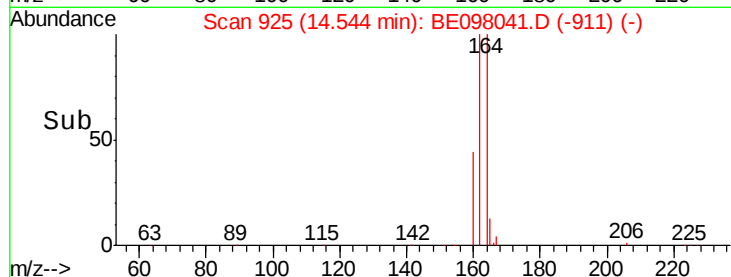
Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion:164 Resp: 4029
Ion Ratio Lower Upper
164 100
162 99.7 77.4 116.2
160 45.4 36.5 54.7



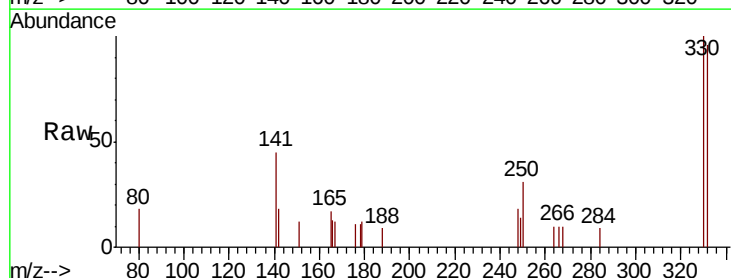
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

14.54



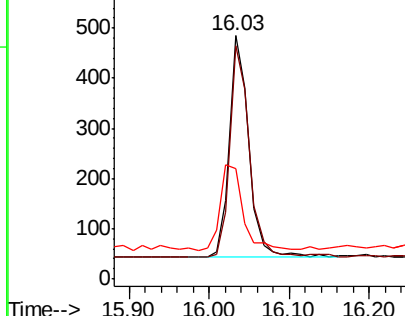
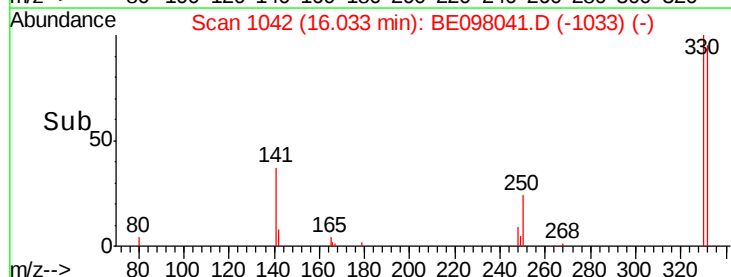
#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 16.03 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BE098041.D
Acq: 24 Oct 2018 16:42

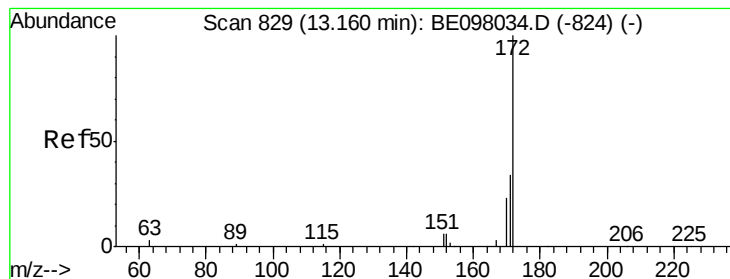
Tgt Ion:330 Resp: 752
Ion Ratio Lower Upper
330 100
332 94.3 76.5 114.7
141 44.3 31.8 47.6



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

16.03





#15

2-Fluorobiphenyl

Concen: 0.416 ng

RT: 13.16 min Scan# 829

Delta R.T. 0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

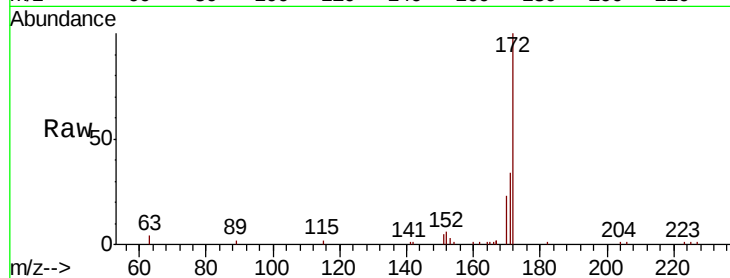
Tot Ion:172 Resp: 6787

Ion Ratio Lower Upper

172 100

171 33.9 26.0 39.0

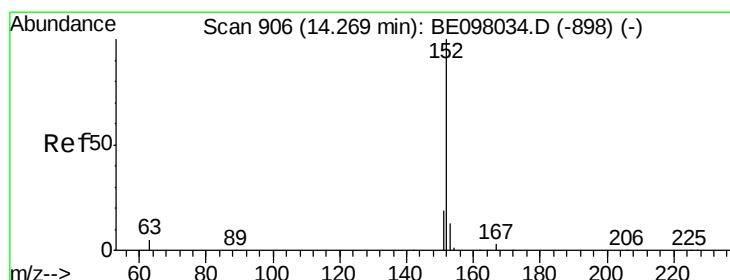
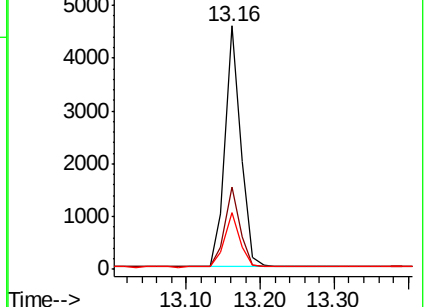
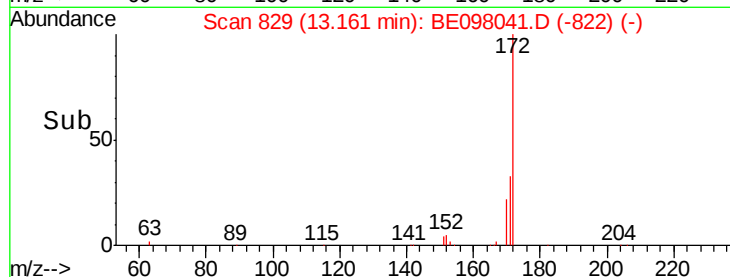
170 23.2 18.0 27.0



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: 0.171 ng

RT: 14.26 min Scan# 905

Delta R.T. -0.01 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

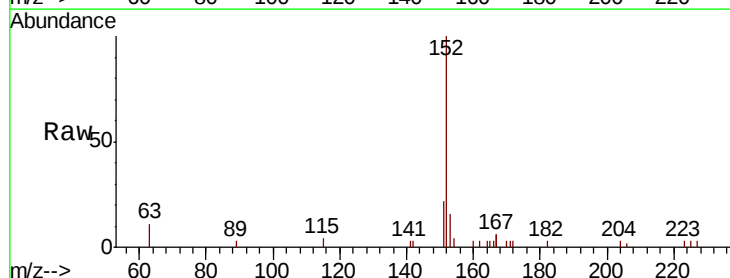
Tgt Ion:152 Resp: 3111

Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

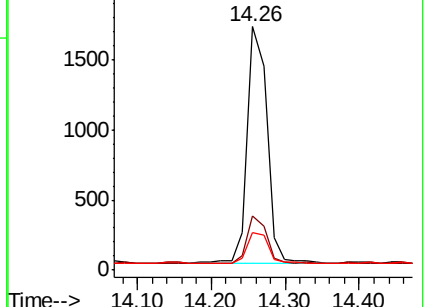
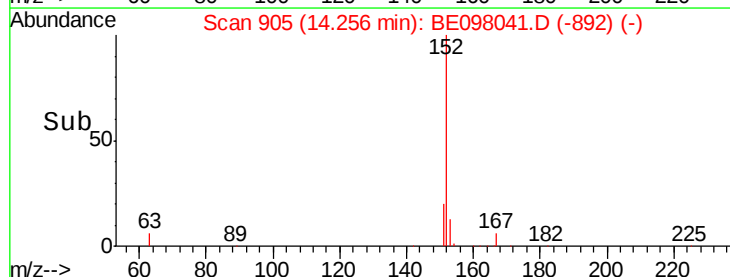
153 14.9 10.9 16.3

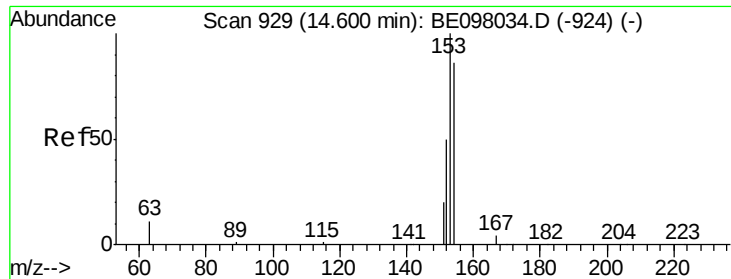


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.175 ng

RT: 14.60 min Scan# 929

Delta R.T. 0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

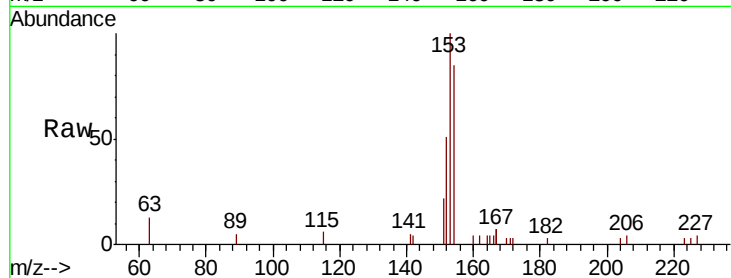
Tot Ion:154 Resp: 1932

Ion Ratio Lower Upper

154 100

153 119.2 92.6 139.0

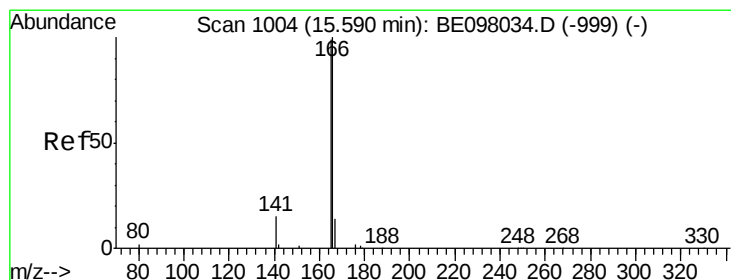
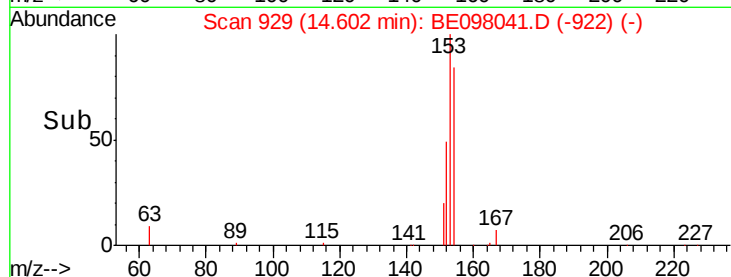
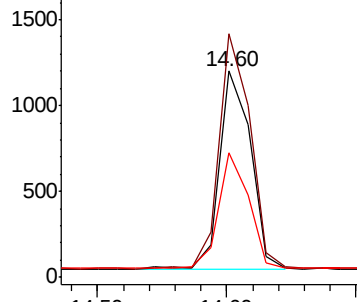
152 56.6 45.5 68.3



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: 0.170 ng

RT: 15.59 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

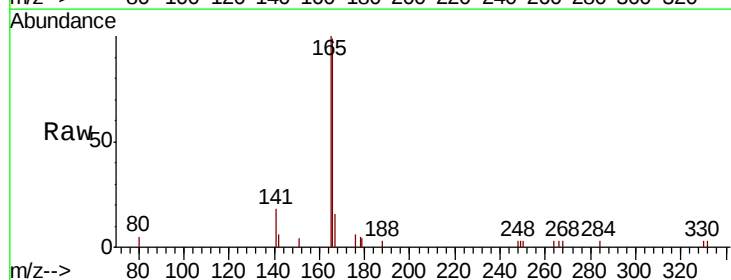
Tgt Ion:166 Resp: 2534

Ion Ratio Lower Upper

166 100

165 103.8 78.2 117.4

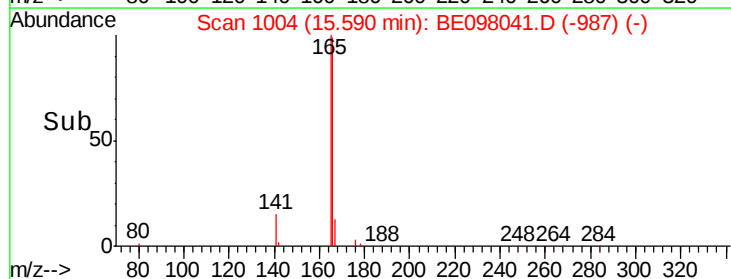
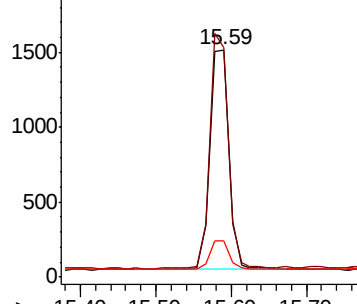
167 13.8 11.0 16.6

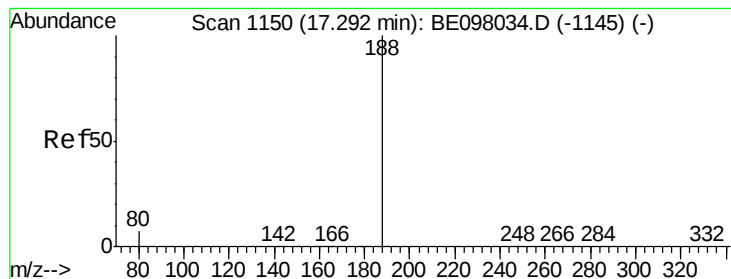


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

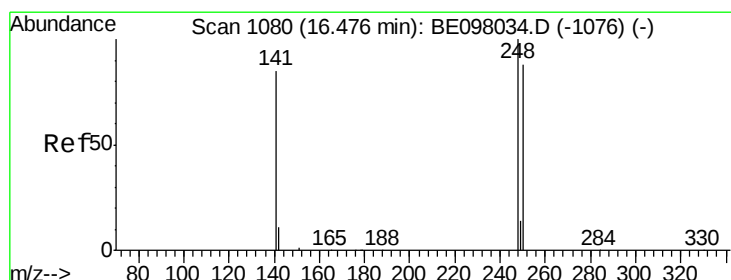
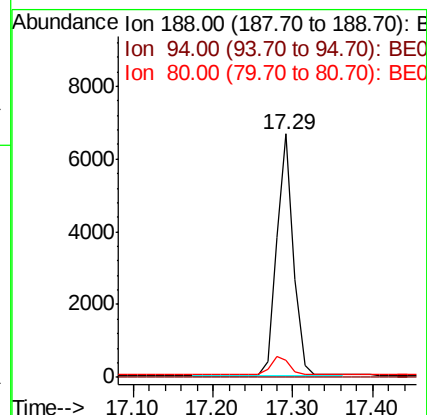
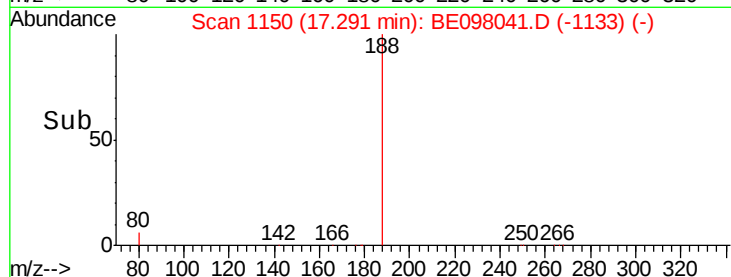
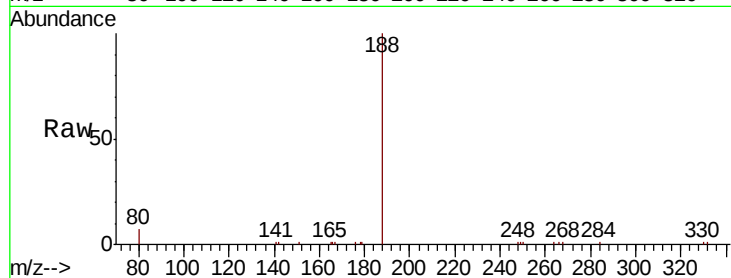
Tot Ion:188 Resp: 9698

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.2 6.3 9.5



#20

4-Bromophenyl-phenylether

Concen: 0.176 ng

RT: 16.48 min Scan# 1080

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

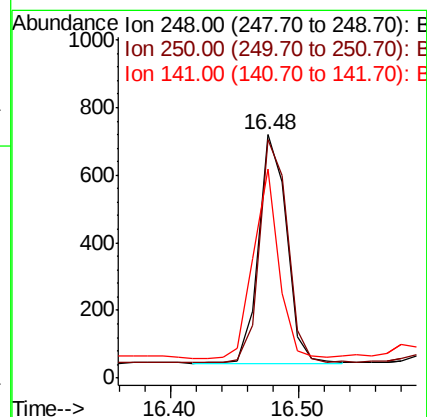
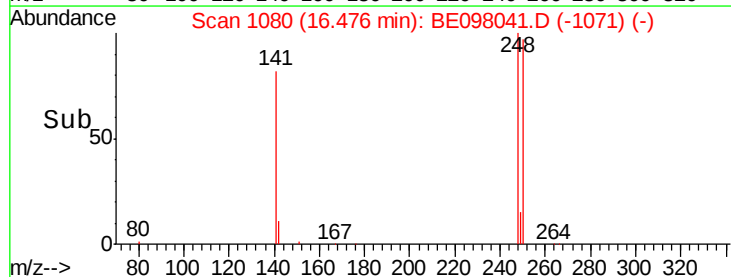
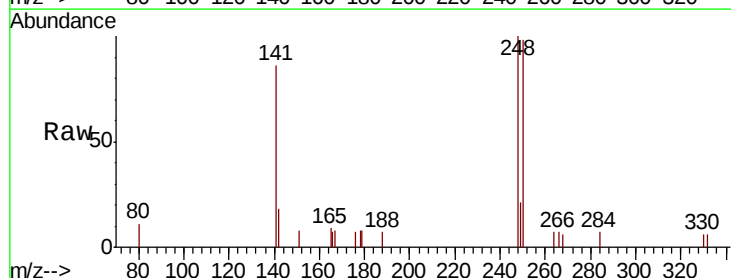
Tgt Ion:248 Resp: 1033

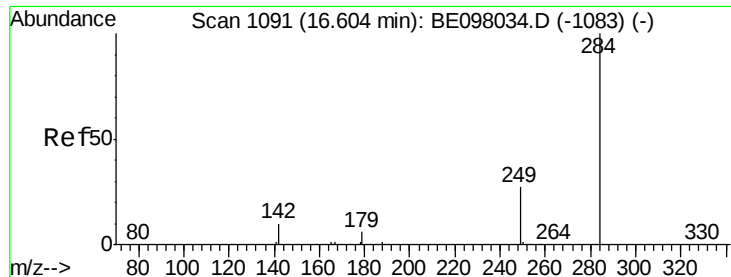
Ion Ratio Lower Upper

248 100

250 97.8 75.1 112.7

141 86.0 51.8 77.8#





#21

Hexachlorobenzene

Concen: 0.182 ng

RT: 16.60 min Scan# 1091

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

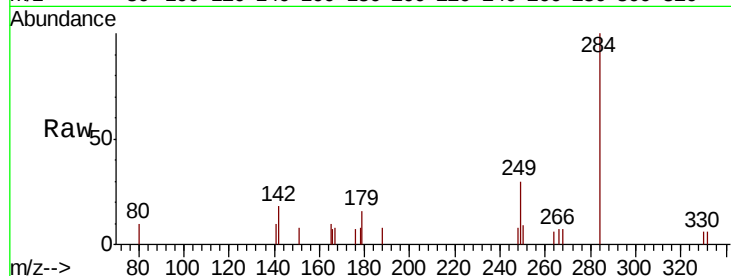
Tot Ion:284 Resp: 1110

Ion Ratio Lower Upper

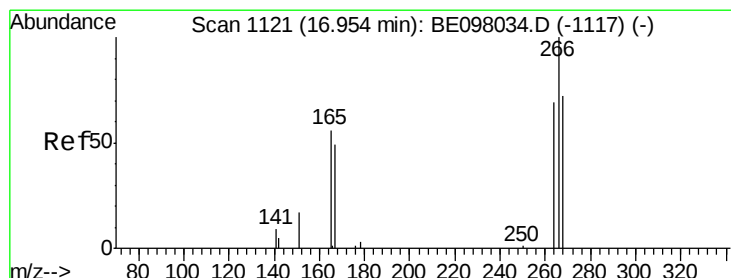
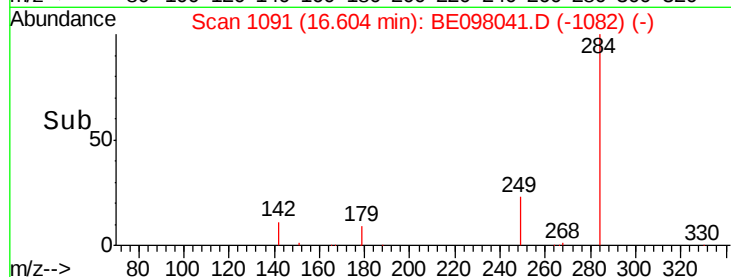
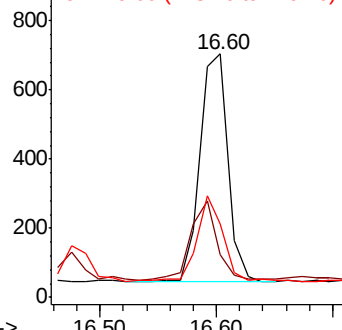
284 100

142 32.4 25.9 38.9

249 32.9 26.6 40.0



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.171 ng

RT: 16.95 min Scan# 1121

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

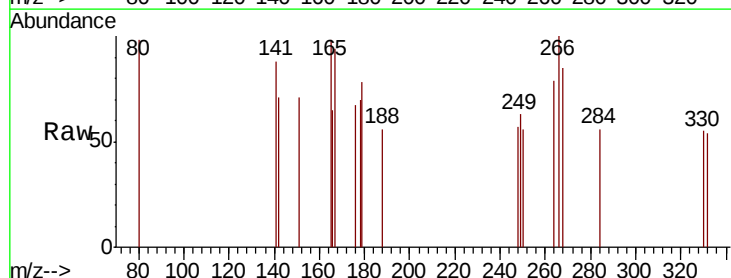
Tgt Ion:266 Resp: 87

Ion Ratio Lower Upper

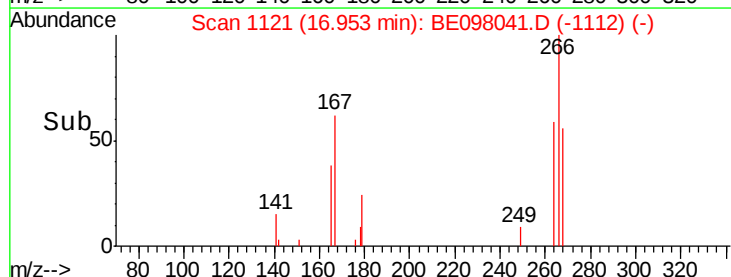
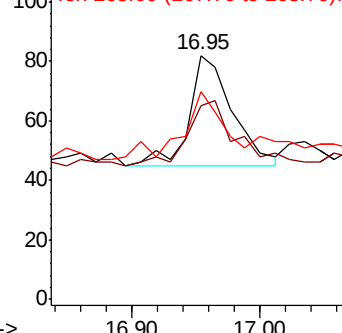
266 100

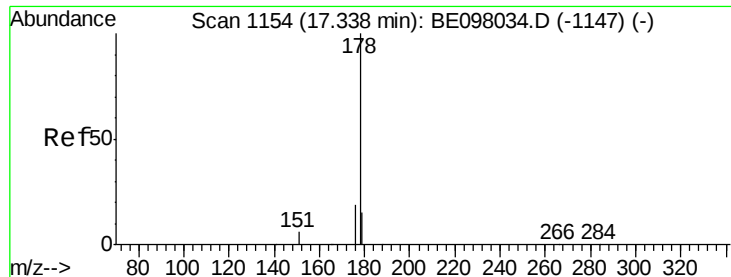
264 79.3 51.3 76.9#

268 85.4 50.1 75.1#



Abundance Ion 266.00 (265.70 to 266.70): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.176 ng

RT: 17.33 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

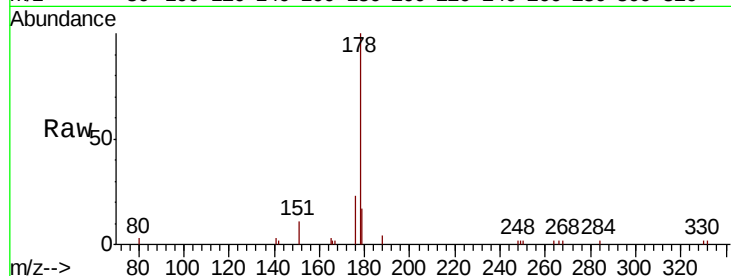
Tot Ion:178 Resp: 4186

Ion Ratio Lower Upper

178 100

176 20.4 15.5 23.3

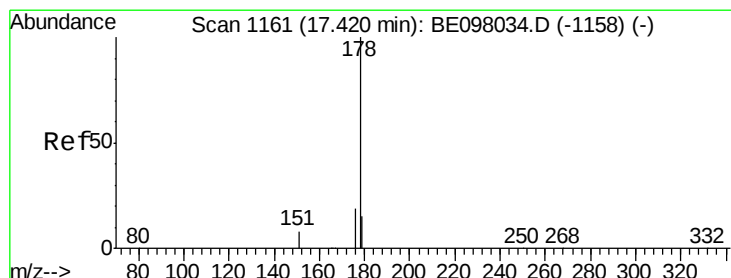
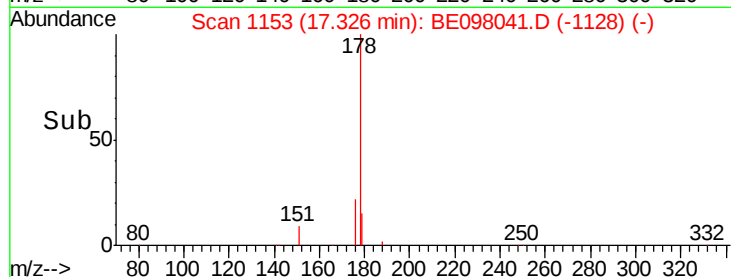
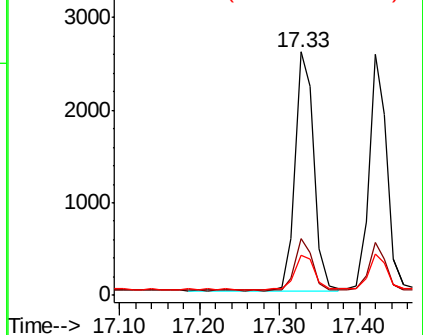
179 15.5 12.2 18.4



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: 0.167 ng

RT: 17.42 min Scan# 1161

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

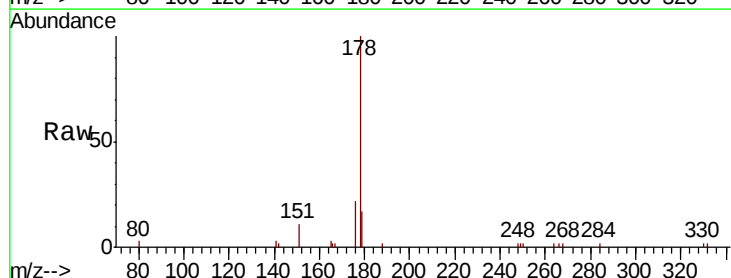
Tgt Ion:178 Resp: 3909

Ion Ratio Lower Upper

178 100

176 20.3 14.9 22.3

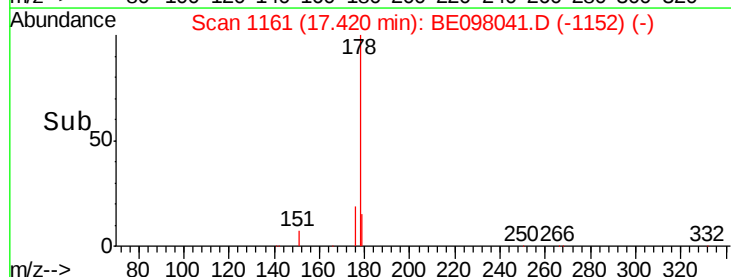
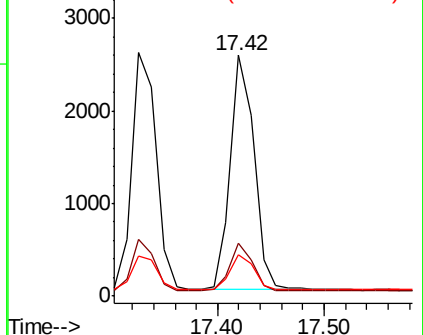
179 14.9 11.9 17.9

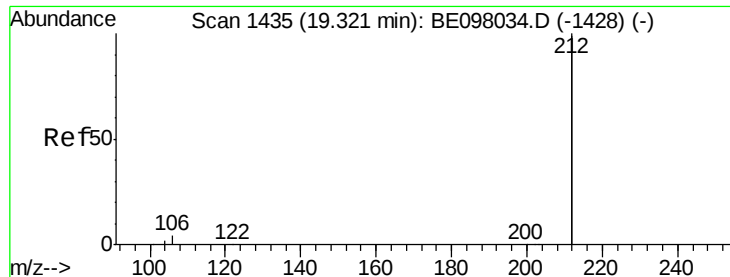


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.399 ng

RT: 19.32 min Scan# 1435

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

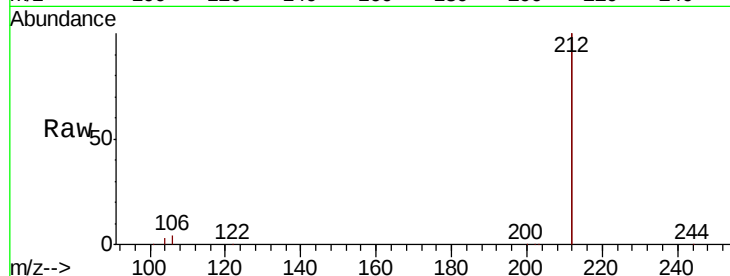
Tot Ion:212 Resp: 49681

Ion Ratio Lower Upper

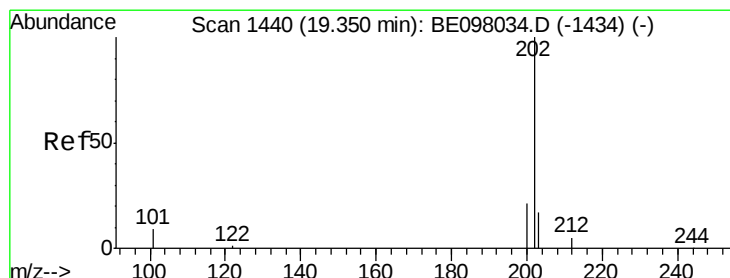
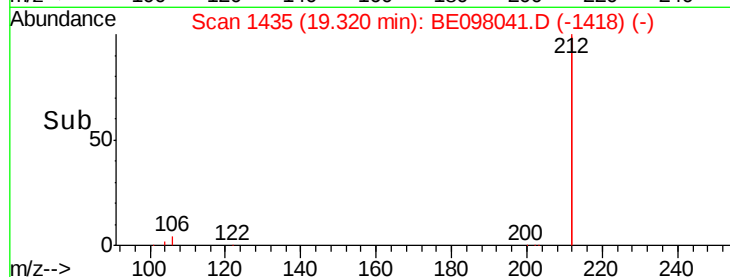
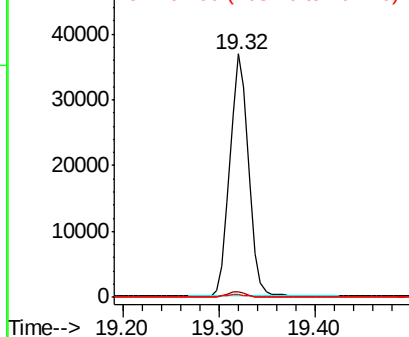
212 100

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: 0.174 ng

RT: 19.35 min Scan# 1440

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

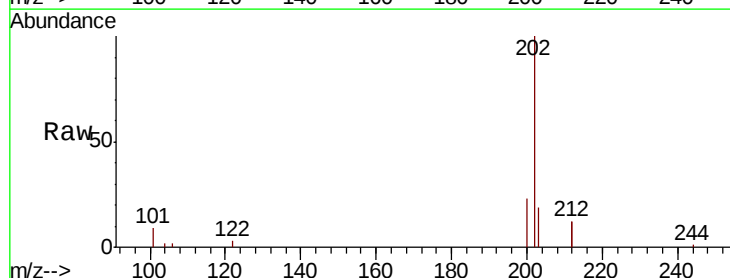
Tgt Ion:202 Resp: 5165

Ion Ratio Lower Upper

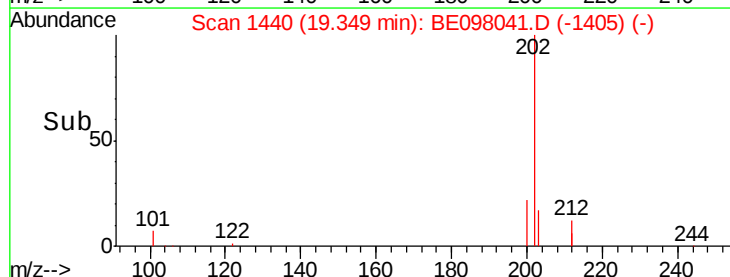
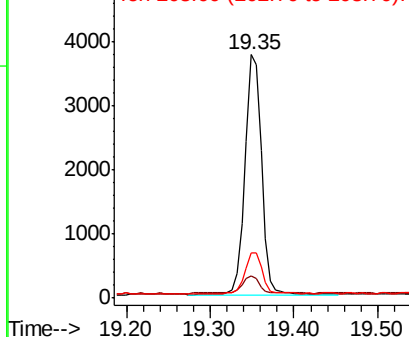
202 100

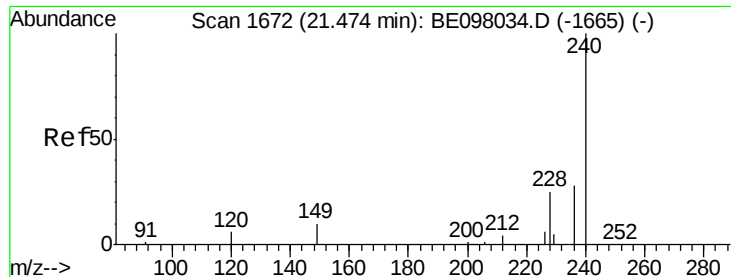
101 7.1 8.2 12.2#

203 17.9 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

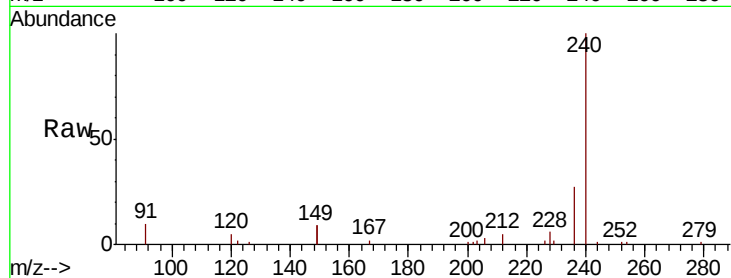




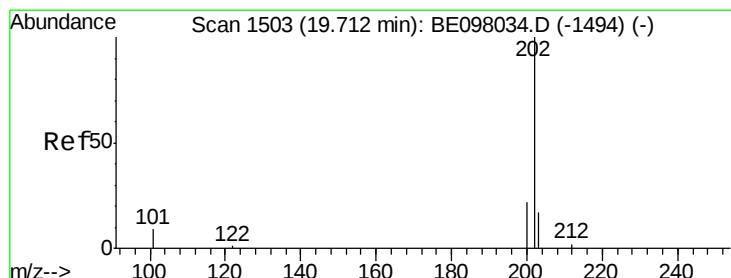
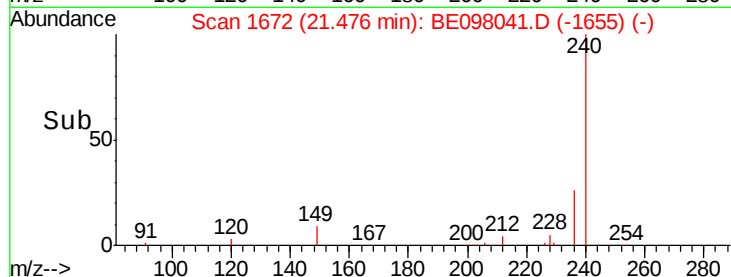
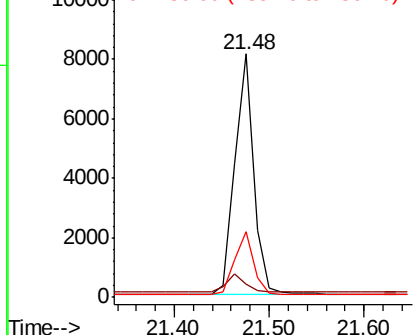
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.48 min Scan# 1672
Delta R.T. 0.00 min
Lab File: BE098041.D
Acq: 24 Oct 2018 16:42

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tot Ion:240 Resp: 11246
Ion Ratio Lower Upper
240 100
120 5.4 7.1 10.7#
236 27.2 21.3 31.9

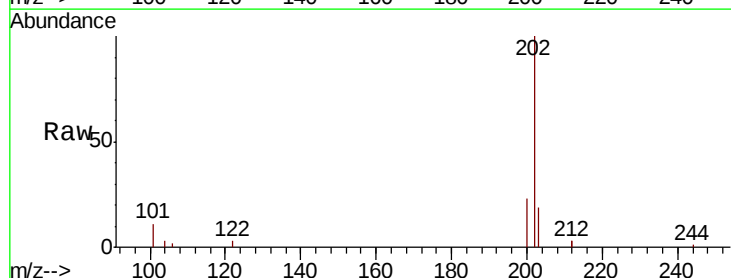


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

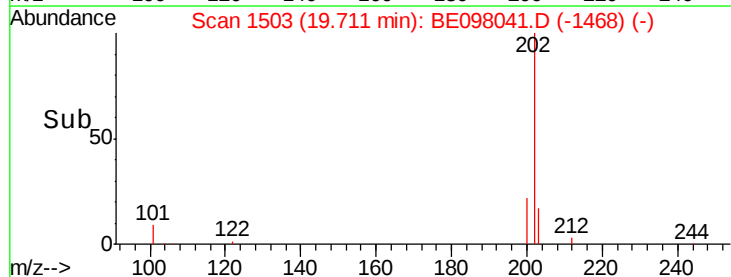
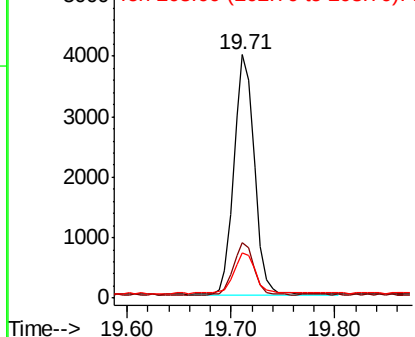


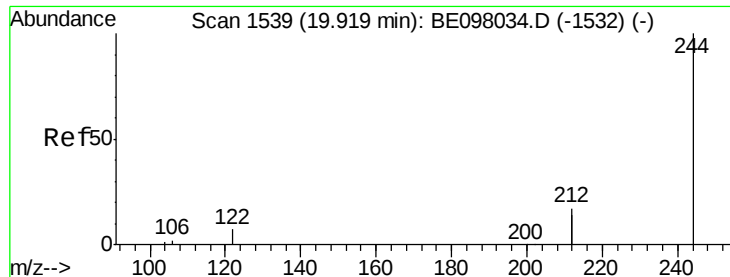
#28
Pyrene
Concen: 0.176 ng
RT: 19.71 min Scan# 1503
Delta R.T. -0.00 min
Lab File: BE098041.D
Acq: 24 Oct 2018 16:42

Tgt Ion:202 Resp: 5452
Ion Ratio Lower Upper
202 100
200 21.4 17.0 25.4
203 17.4 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: 0.401 ng

RT: 19.92 min Scan# 1539

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

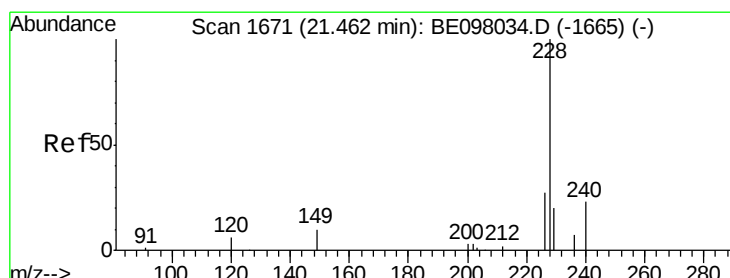
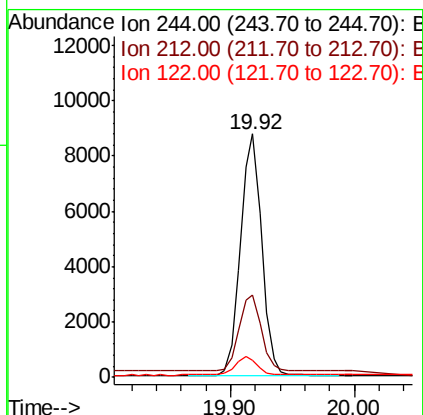
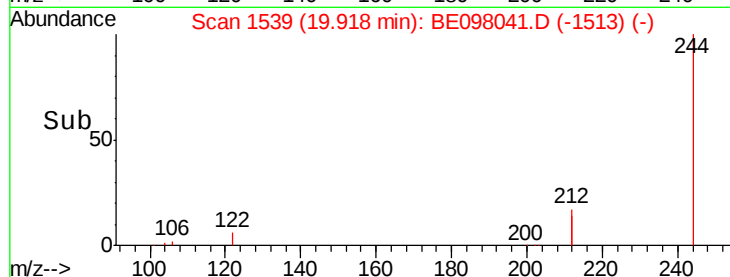
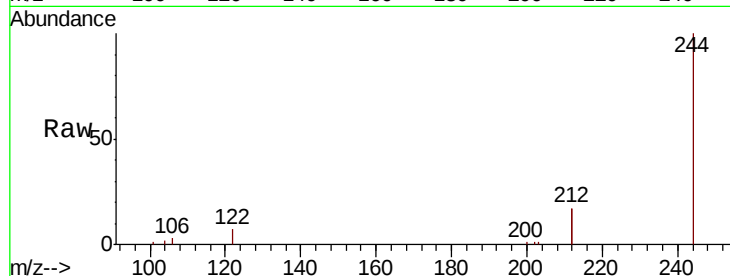
Tot Ion:244 Resp: 10628

Ion Ratio Lower Upper

244 100

212 33.7 26.2 39.2

122 7.1 7.7 11.5#



#30

Benzo(a)anthracene

Concen: 0.180 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

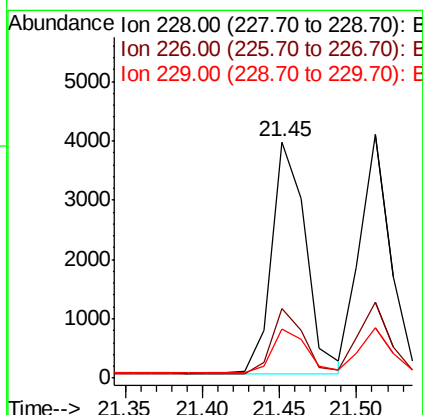
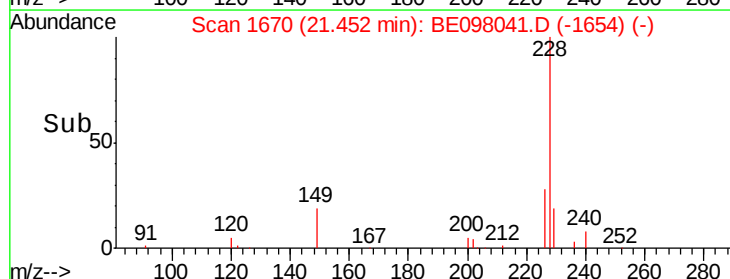
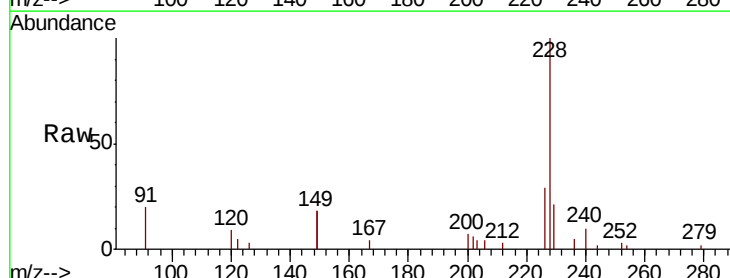
Tgt Ion:228 Resp: 5993

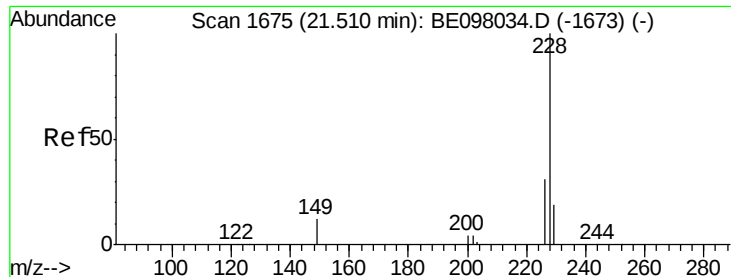
Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

229 20.6 16.9 25.3





#31

Chrysene

Concen: 0.172 ng

RT: 21.51 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

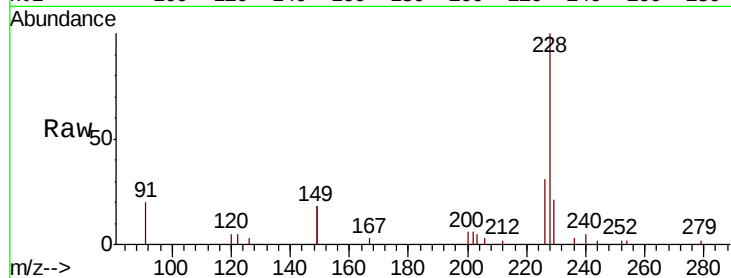
Tot Ion:228 Resp: 5555

Ion Ratio Lower Upper

228 100

226 31.0 24.3 36.5

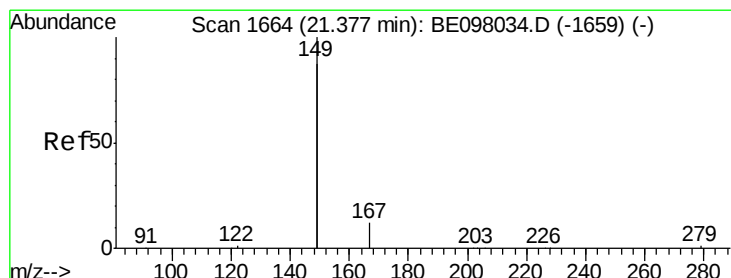
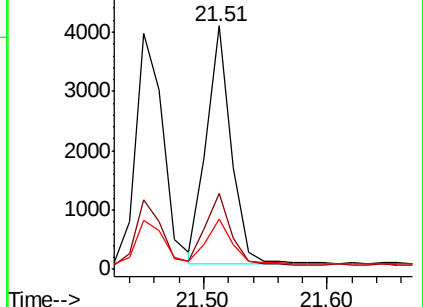
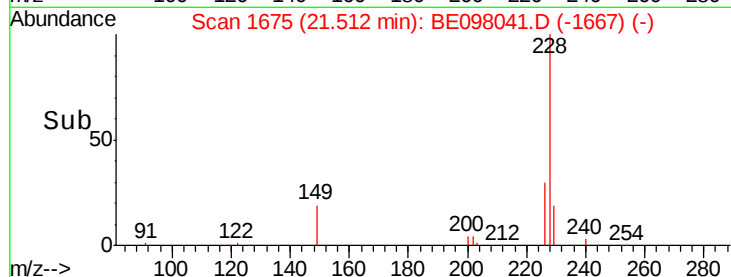
229 20.8 17.3 25.9



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: 0.171 ng

RT: 21.38 min Scan# 1664

Delta R.T. 0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

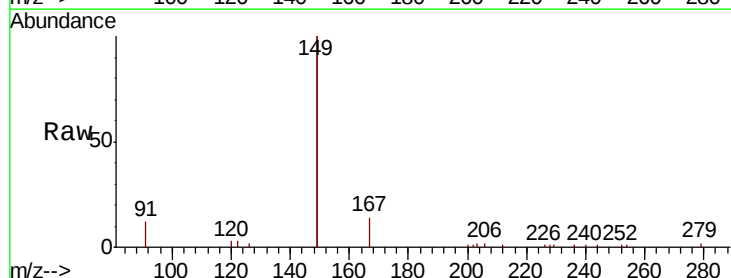
Tgt Ion:149 Resp: 13477

Ion Ratio Lower Upper

149 100

167 7.3 5.6 8.4

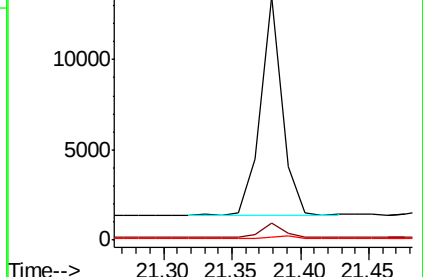
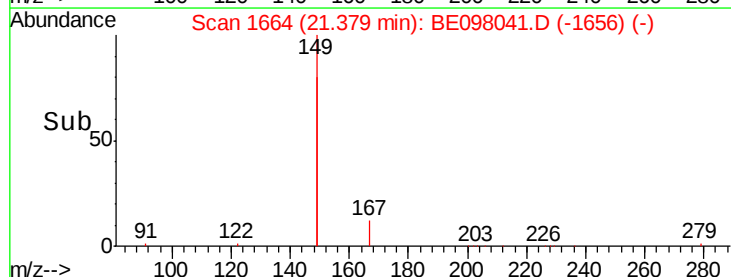
279 1.4 0.9 1.3#

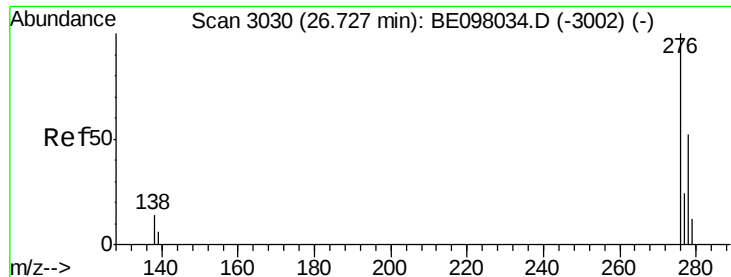


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.171 ng

RT: 26.72 min Scan# 3027

Delta R.T. -0.01 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

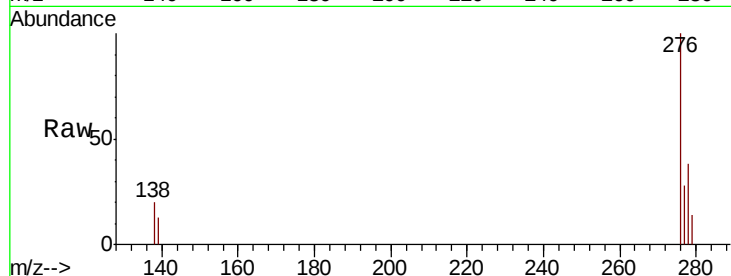
Tot Ion:276 Resp: 6045

Ion Ratio Lower Upper

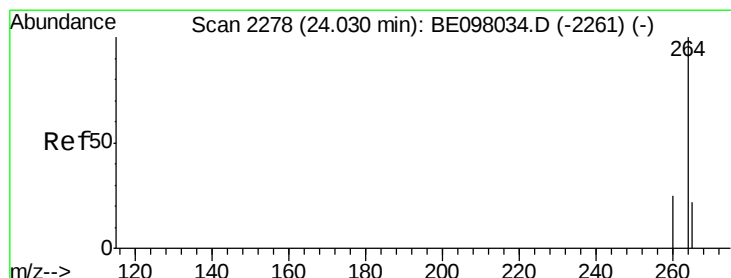
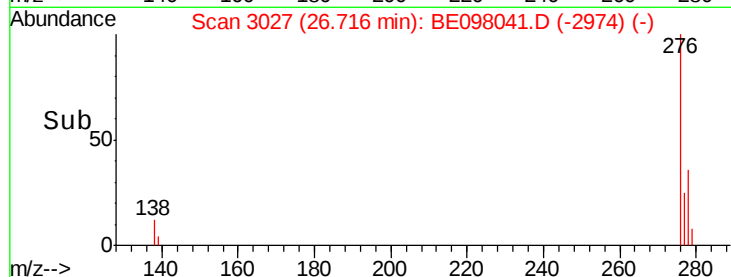
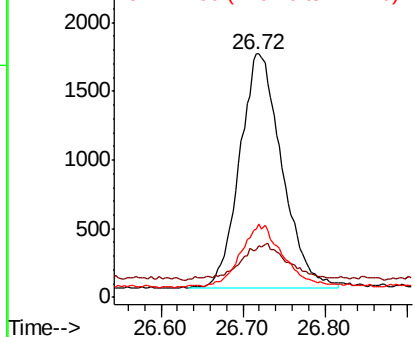
276 100

138 15.4 17.0 25.6#

277 26.4 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: 24.03 min Scan# 2277

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

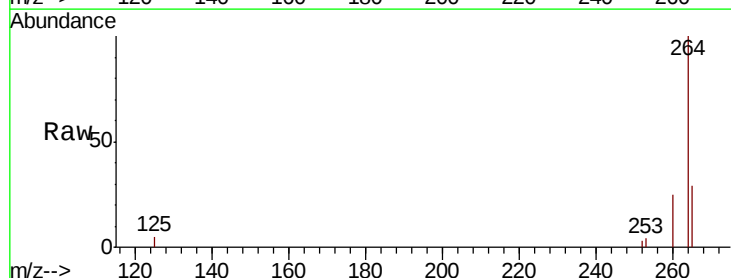
Tgt Ion:264 Resp: 11221

Ion Ratio Lower Upper

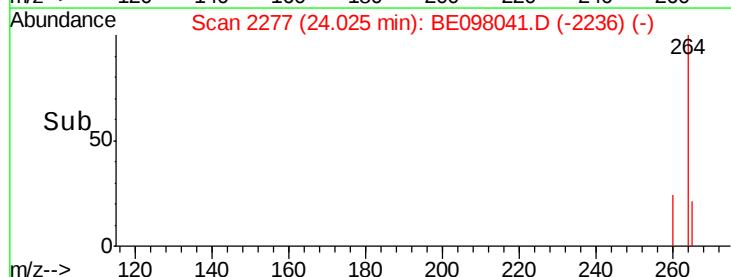
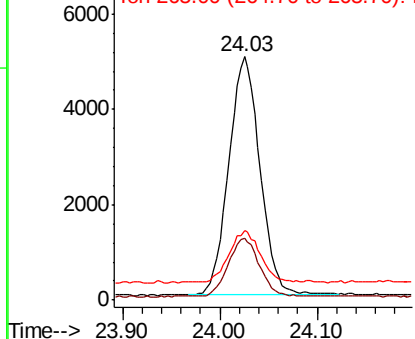
264 100

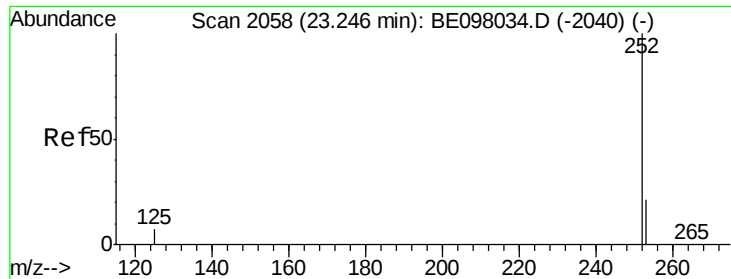
260 25.3 21.1 31.7

265 28.7 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: 0.171 ng

RT: 23.24 min Scan# 2057

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

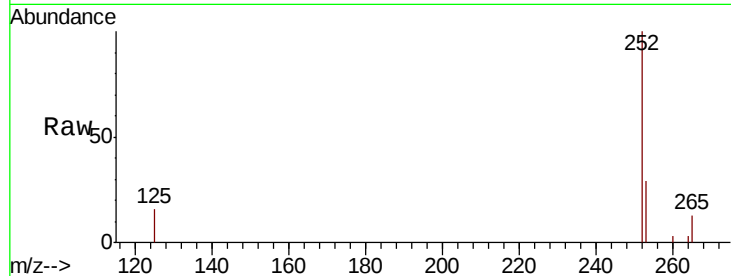
Tot Ion:252 Resp: 5322

Ion Ratio Lower Upper

252 100

253 28.7 20.6 31.0

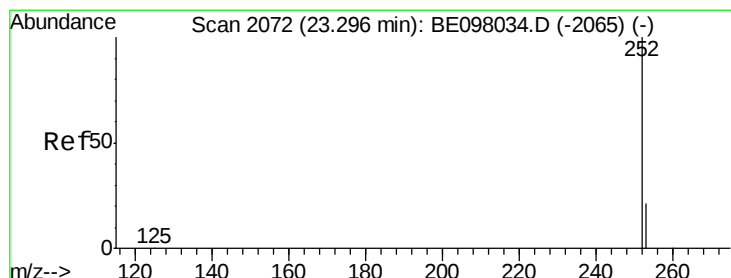
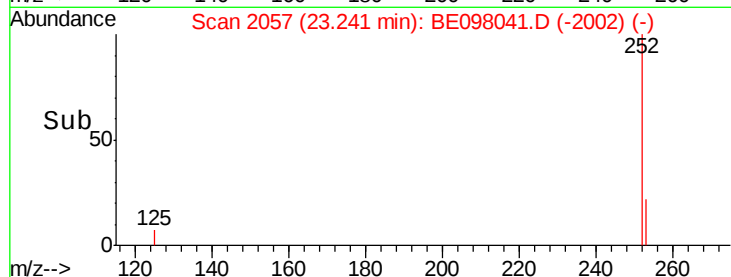
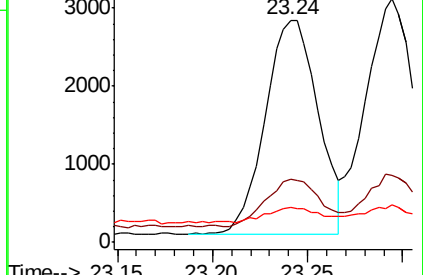
125 15.6 14.3 21.5



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: 0.172 ng

RT: 23.29 min Scan# 2072

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

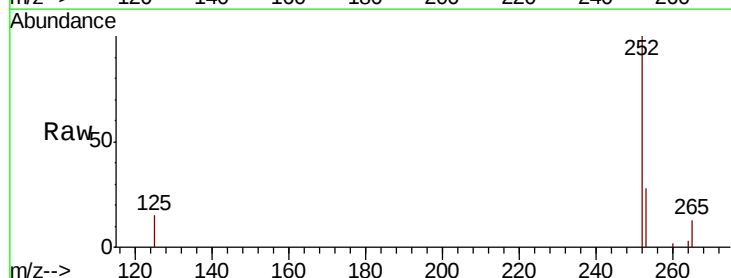
Tgt Ion:252 Resp: 5578

Ion Ratio Lower Upper

252 100

253 27.7 20.4 30.6

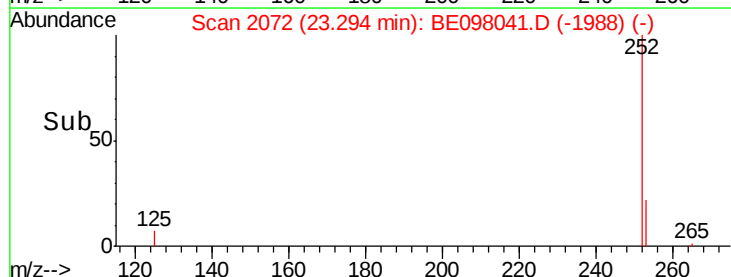
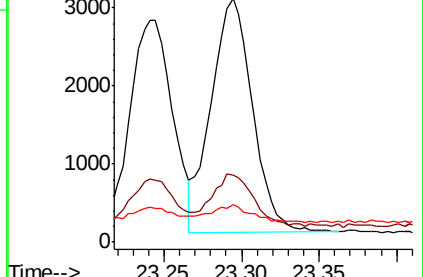
125 15.2 14.6 21.8

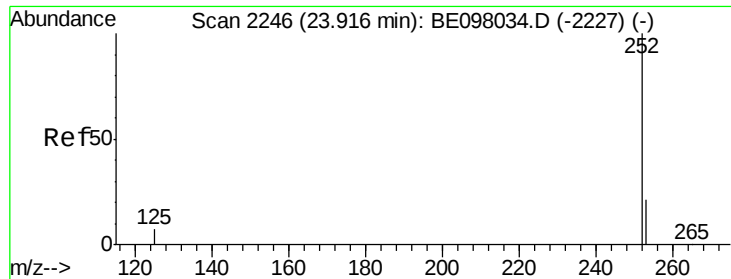


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.172 ng

RT: 23.91 min Scan# 2245

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018

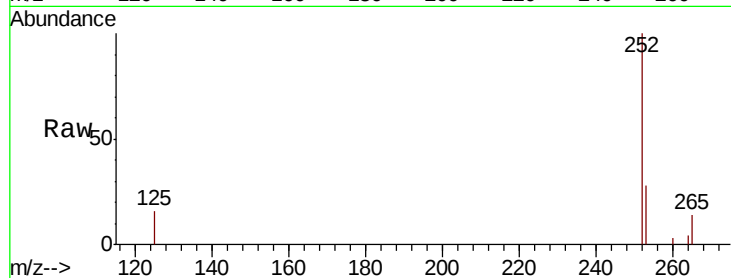
Tot Ion:252 Resp: 5259

Ion Ratio Lower Upper

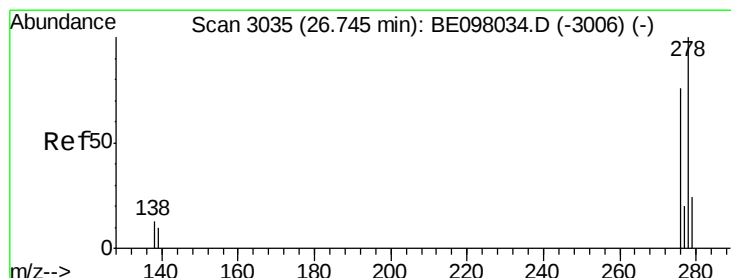
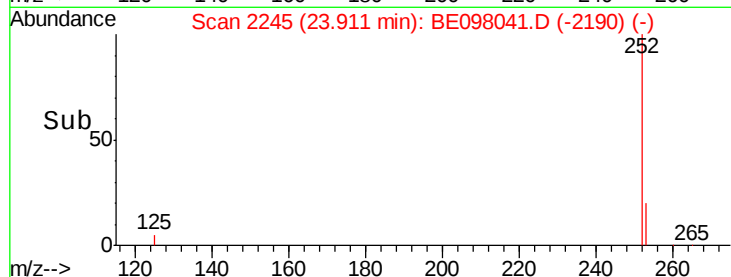
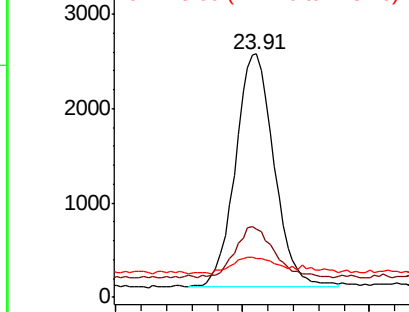
252 100

253 27.9 20.6 31.0

125 15.8 15.6 23.4



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



#38

Dibenzo(a,h)anthracene

Concen: 0.169 ng

RT: 26.74 min Scan# 3035

Delta R.T. -0.00 min

Lab File: BE098041.D

Acq: 24 Oct 2018 16:42

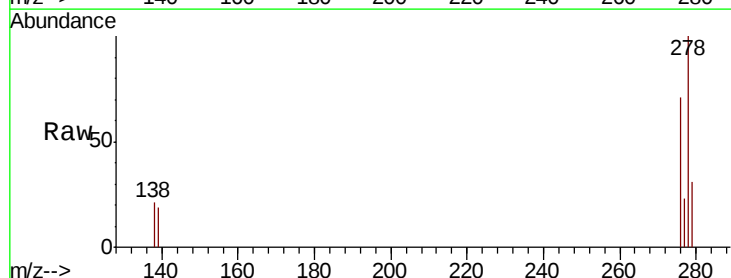
Tgt Ion:278 Resp: 5048

Ion Ratio Lower Upper

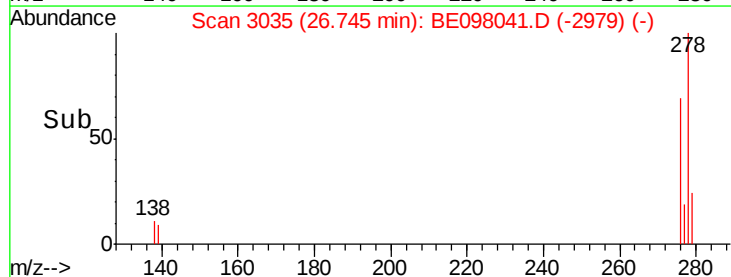
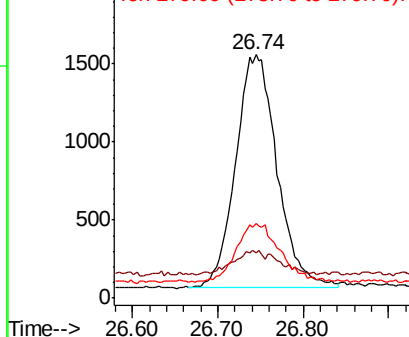
278 100

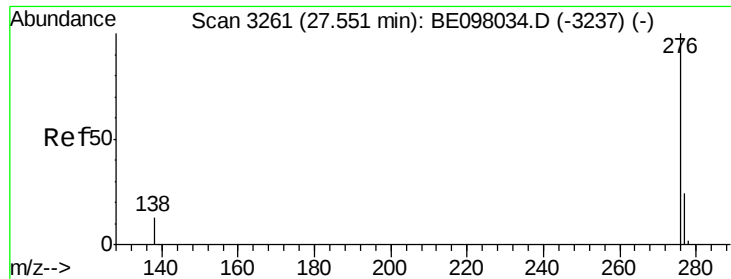
139 18.8 16.3 24.5

279 30.6 21.4 32.2



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.168 ng

RT: 27.55 min Scan# 3260

Delta R.T. -0.00 min

Lab File: BE098041.D

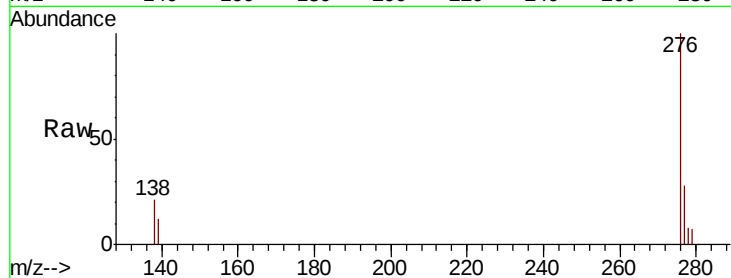
Acq: 24 Oct 2018 16:42

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT4-2018



Tot Ion: 276 Resp: 4981

Ion Ratio Lower Upper

276 100

277 28.4 22.1 33.1

138 21.3 19.3 28.9

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

