

Data Path : Z:\HPCHEM1\BNA E\DATA\BE051518\
 Data File : BE096581.D
 Acq On : 15 May 2018 16:58
 Operator : SJ/JU
 Sample : J2604-13DL 100X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SoilDL

Quant Time: May 16 05:59:38 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE051518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 15 13:02:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.34	152	653	0.40	ng	0.00
7) Naphthalene-d8	11.17	136	2764	0.40	ng	-0.01
13) Acenaphthene-d10	14.92	164	1693	0.40	ng	0.00
19) Phenanthrene-d10	17.64	188	3854	0.40	ng	0.00
27) Chrysene-d12	21.73	240	3706	0.40	ng	0.00
34) Perylene-d12	24.33	264	3542	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.84	112	2525	1.40	ng	-0.01
5) Phenol-d6	7.49	99	3733	1.46	ng	-0.01
8) Nitrobenzene-d5	9.52	82	2673	0.91	ng	-0.01
11) 2-Methylnaphthalene-d10	12.71	152	5	0.00	ng	-0.01
14) 2,4,6-Tribromophenol	16.40	330	1061	1.59	ng	0.00
15) 2-Fluorobiphenyl	13.56	172	6424	0.88	ng	0.00
25) Fluoranthene-d10	19.62	212	32	0.00	ng	0.00
29) Terphenyl-d14	20.18	244	8300	0.99	ng	0.00

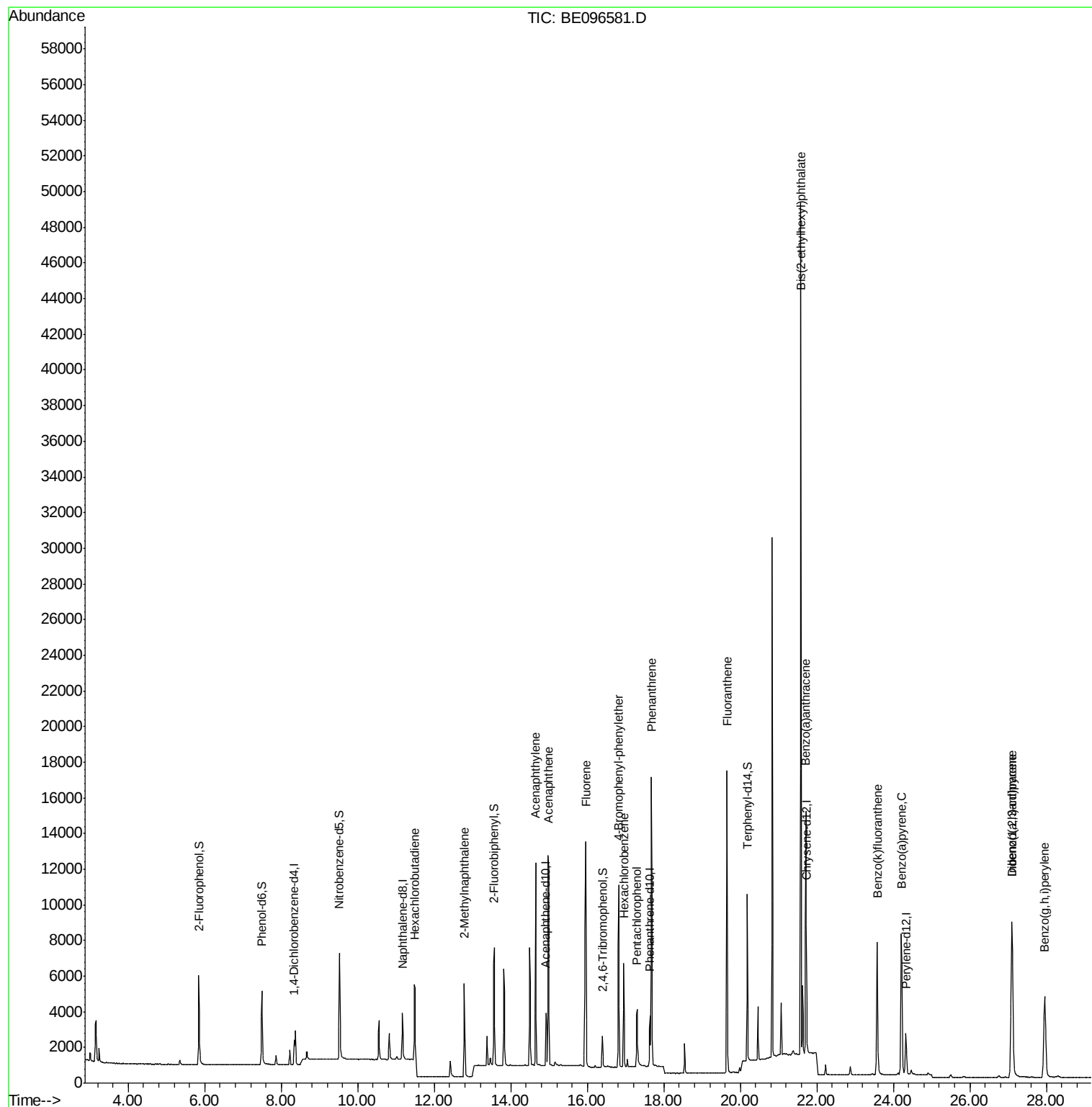
Target Compounds				Qvalue		
10) Hexachlorobutadiene	11.48	225	2863	1.761	ng	94
12) 2-Methylnaphthalene	12.79	142	3605	0.723	ng	93
16) Acenaphthylene	14.64	152	14100	1.596	ng	99
17) Acenaphthene	14.99	154	6529	1.212	ng	93
18) Fluorene	15.96	166	11538	1.722	ng	# 77
20) 4-Bromophenyl-phenylether	16.82	248	4784	2.046	ng	# 83
21) Hexachlorobenzene	16.95	284	4058	1.665	ng	# 81
22) Pentachlorophenol	17.30	266	2010	2.744	ng	# 74
23) Phenanthrene	17.67	178	16593	1.533	ng	99
26) Fluoranthene	19.65	202	15608	1.206	ng	# 97
30) Benzo(a)anthracene	21.72	228	11618	1.020	ng	97
32) Bis(2-ethylhexyl)phthalate	21.58	149	51826	2.125	ng	100
33) Indeno(1,2,3-cd)pyrene	27.10	276	11470	1.009	ng	# 93
36) Benzo(k)fluoranthene	23.58	252	11147	0.964	ng	# 94
37) Benzo(a)pyrene	24.21	252	13845	1.326	ng	# 92
38) Dibenzo(a,h)anthracene	27.11	278	10526	1.102	ng	# 95
39) Benzo(a,h,i)perylene	27.96	276	11528	1.153	ng	# 89

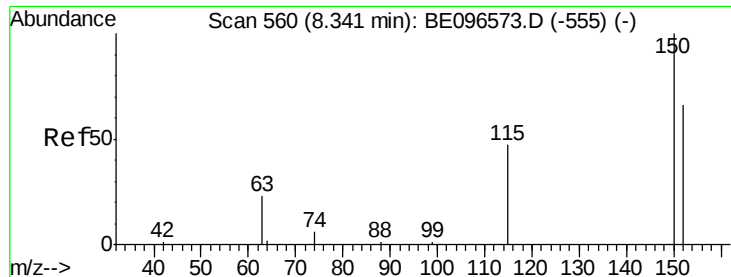
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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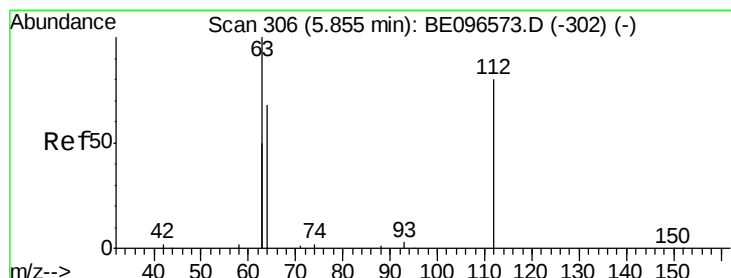
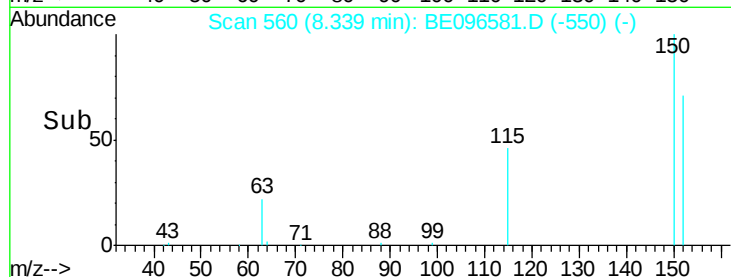
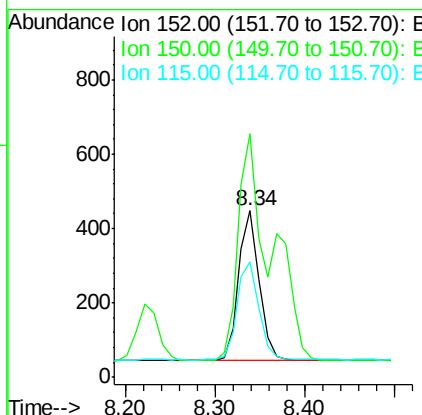
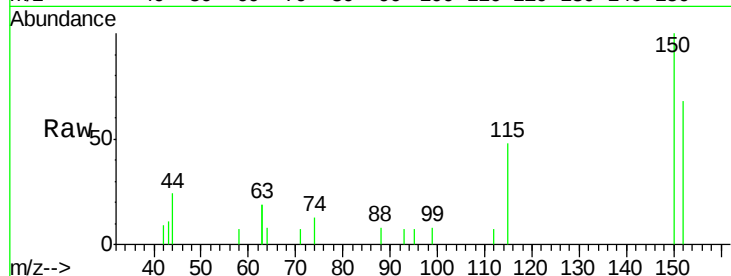


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.34 min Scan# 560
Delta R.T. -0.00 min
Lab File: BE096581.D
Acq: 15 May 2018 16:58

Instrument :
BNA_E
ClientSampleId :
PT-BNA-SoilDL

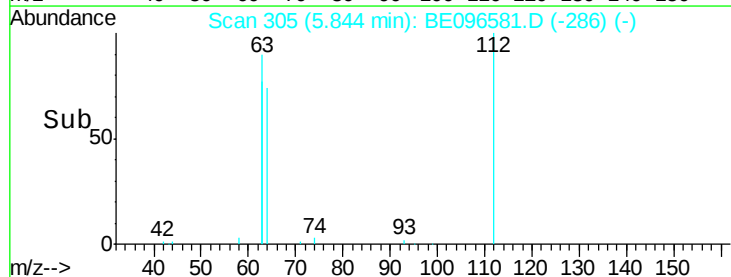
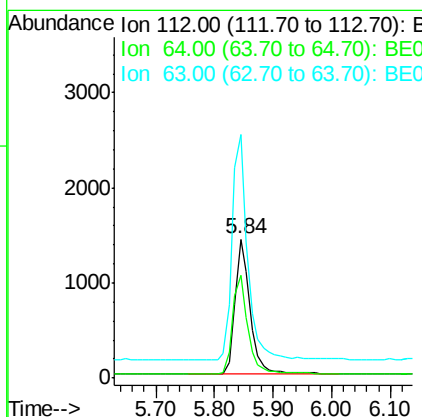
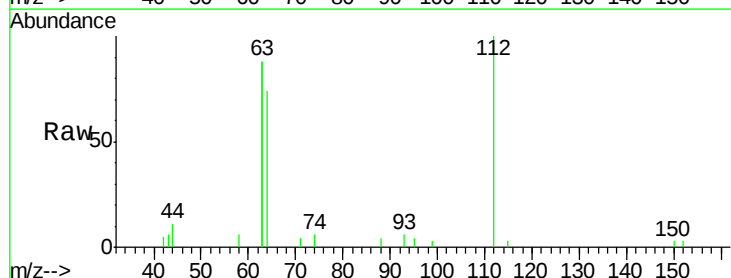
Tot Ion:152 Resp: 653
Ion Ratio Lower Upper
152 100
150 146.5 117.2 175.8
115 69.8 57.0 85.6

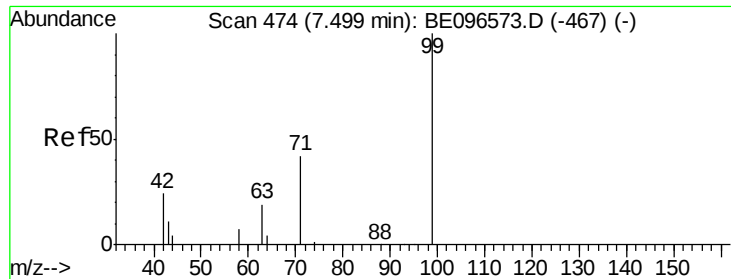


#4

2-Fluorophenol
Concen: 1.402 ng
RT: 5.84 min Scan# 305
Delta R.T. -0.01 min
Lab File: BE096581.D
Acq: 15 May 2018 16:58

Tgt Ion:112 Resp: 2525
Ion Ratio Lower Upper
112 100
64 75.3 60.1 90.1
63 170.6 116.8 175.2





#5

Phenol-d6

Concen: 1.465 ng

RT: 7.49 min Scan# 473

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleID :

PT-BNA-SoilDL

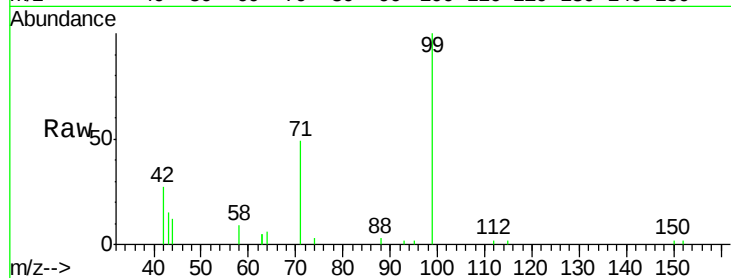
Tot Ion: 99 Resp: 3733

Ion Ratio Lower Upper

99 100

42 28.2 20.2 30.2

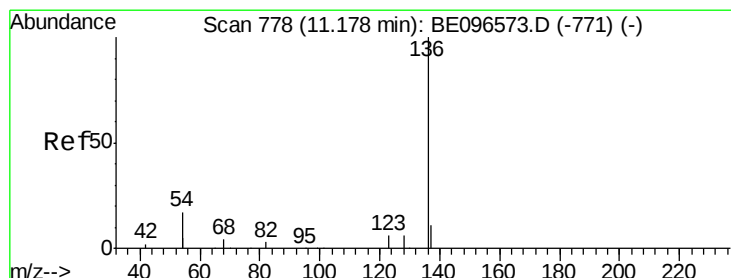
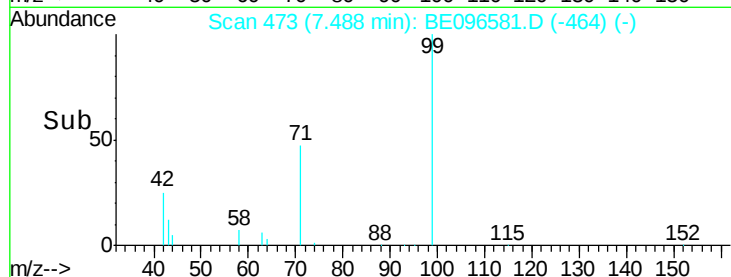
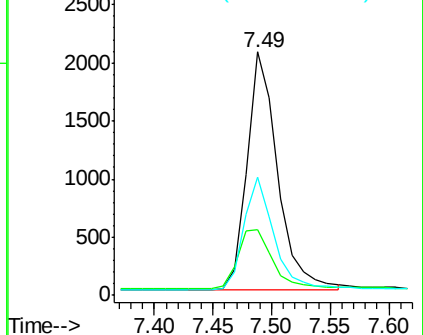
71 46.2 28.4 42.6#



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.17 min Scan# 777

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Tgt Ion: 136 Resp: 2764

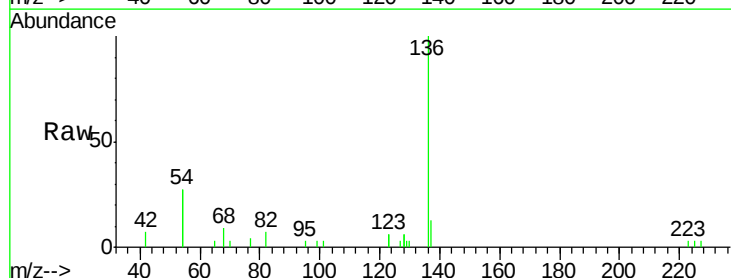
Ion Ratio Lower Upper

136 100

137 12.5 9.5 14.3

54 53.7 29.1 43.7#

68 9.1 6.2 9.2

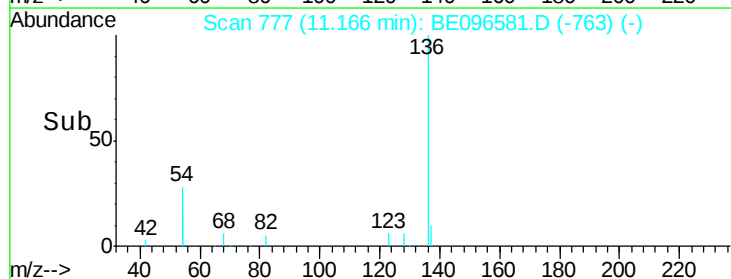
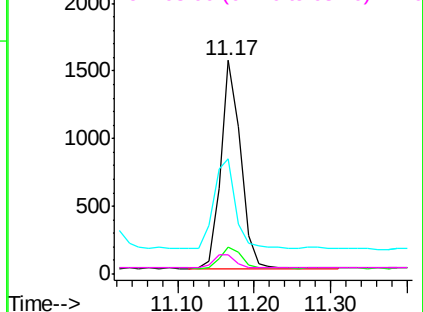


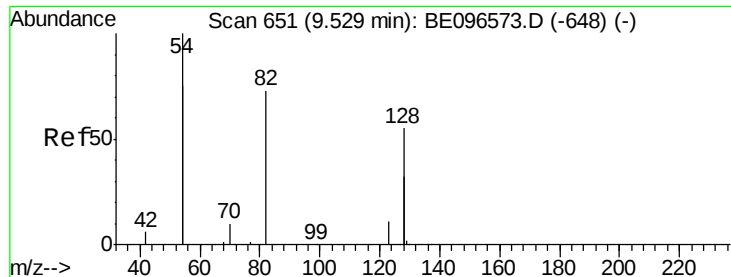
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.909 ng

RT: 9.52 min Scan# 650

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

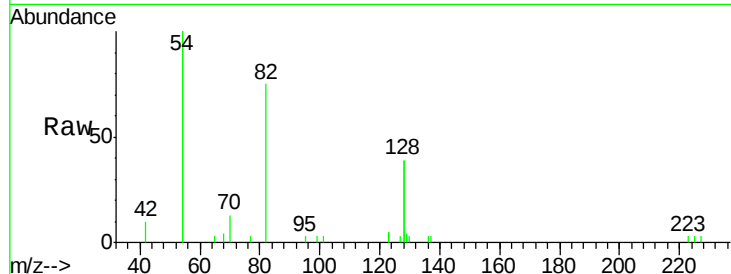
Tot Ion: 82 Resp: 2673

Ion Ratio Lower Upper

82 100

128 105.1 150.0 225.0#

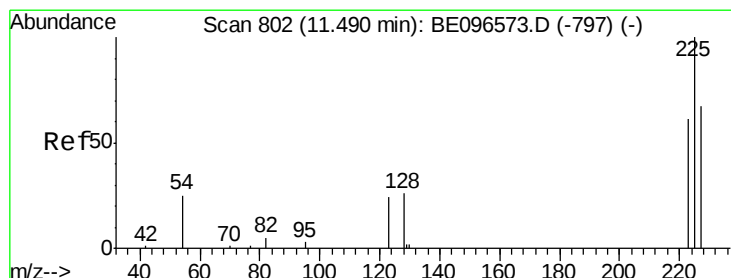
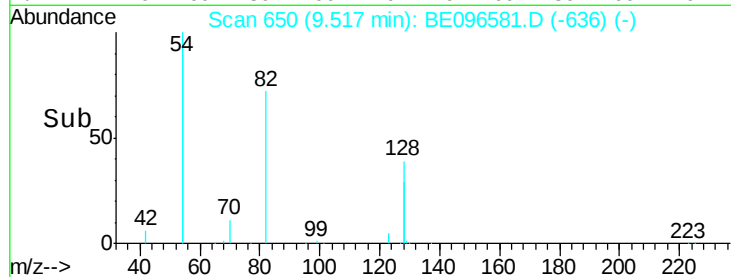
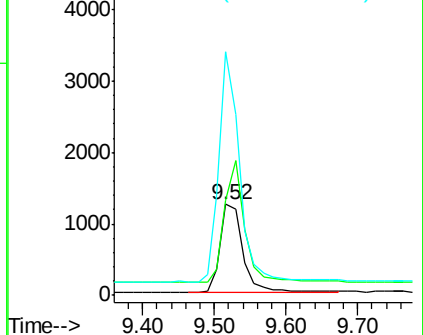
54 267.3 154.2 231.4#



Abundance Ion 82.00 (81.70 to 82.70): BE096581.D (-636) (-)

Ion 128.00 (127.70 to 128.70): BE096581.D (-636) (-)

Ion 54.00 (53.70 to 54.70): BE096581.D (-636) (-)



#10

Hexachlorobutadiene

Concen: 1.761 ng

RT: 11.48 min Scan# 801

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

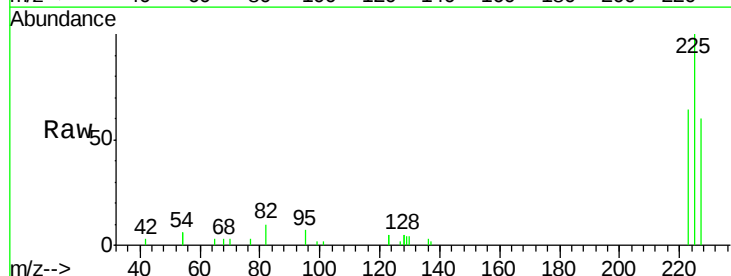
Tgt Ion: 225 Resp: 2863

Ion Ratio Lower Upper

225 100

223 75.8 53.0 79.6

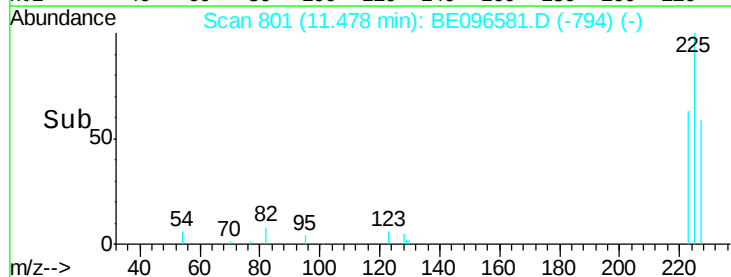
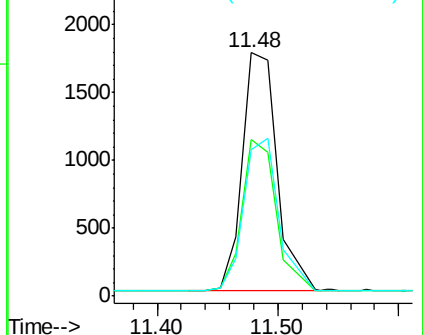
227 64.7 51.4 77.2

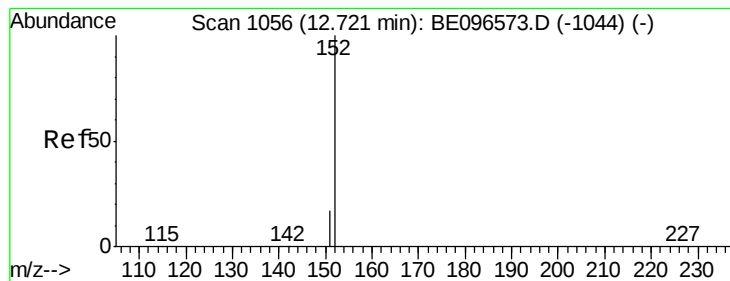


Abundance Ion 225.00 (224.70 to 225.70): BE096581.D (-794) (-)

Ion 223.00 (222.70 to 223.70): BE096581.D (-794) (-)

Ion 227.00 (226.70 to 227.70): BE096581.D (-794) (-)





#11

2-Methylnaphthalene-d10

Concen: 0.001 ng

RT: 12.71 min Scan# 1053

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

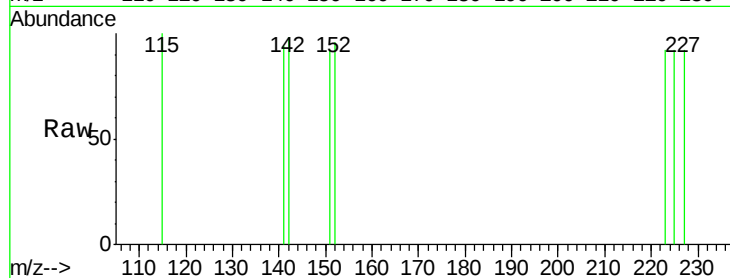
PT-BNA-SoilDL

Tot Ion:152 Resp: 5

Ion Ratio Lower Upper

152 100

151 0.0 15.4 23.0#

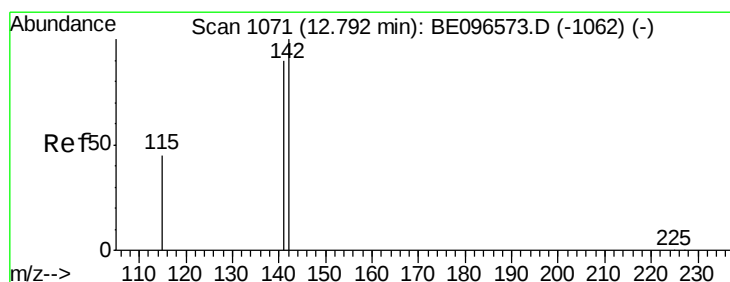
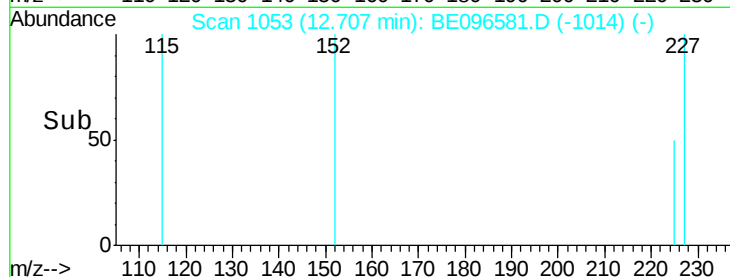


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.71

Time-->



#12

2-Methylnaphthalene

Concen: 0.723 ng

RT: 12.79 min Scan# 1070

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

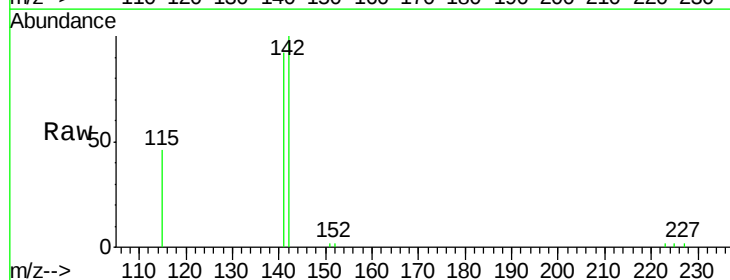
Tgt Ion:142 Resp: 3605

Ion Ratio Lower Upper

142 100

141 92.3 70.4 105.6

115 46.5 31.7 47.5



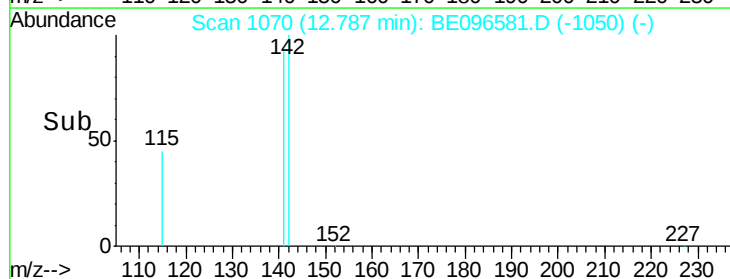
Abundance Ion 142.00 (141.70 to 142.70): E

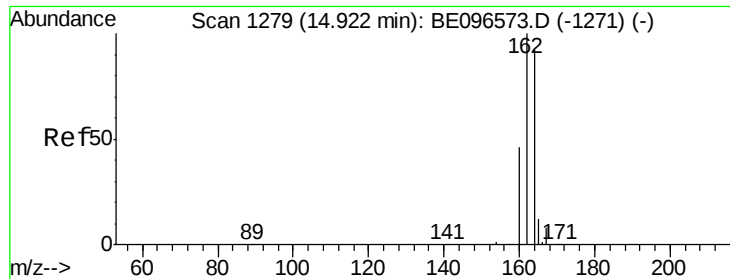
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

12.79

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.92 min Scan# 1279

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

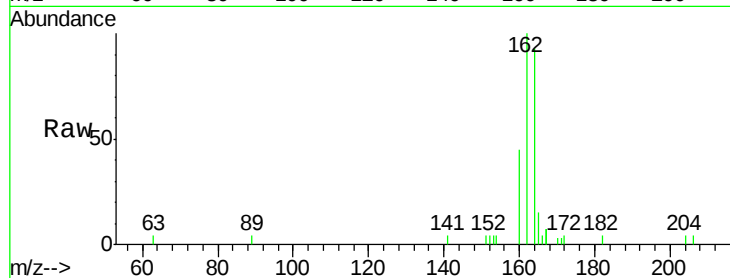
Tot Ion:164 Resp: 1693

Ion Ratio Lower Upper

164 100

162 107.5 83.1 124.7

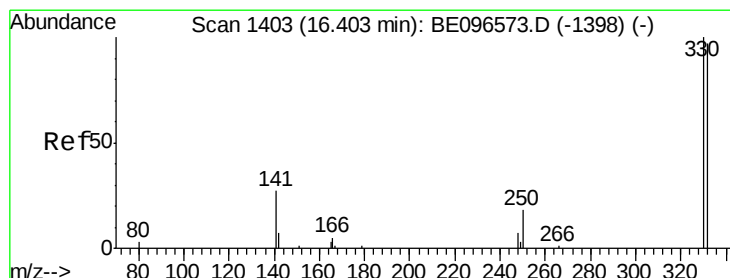
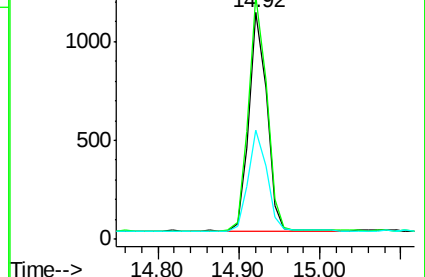
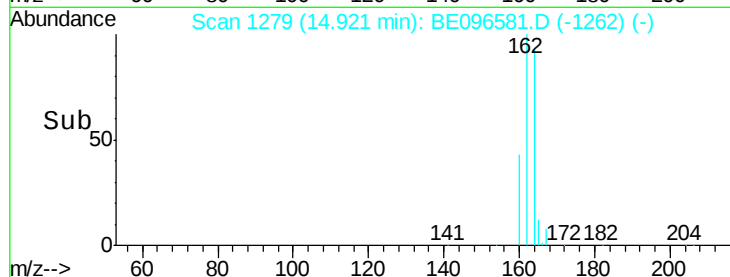
160 48.2 37.1 55.7



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: 1.585 ng

RT: 16.40 min Scan# 1403

Delta R.T. 0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

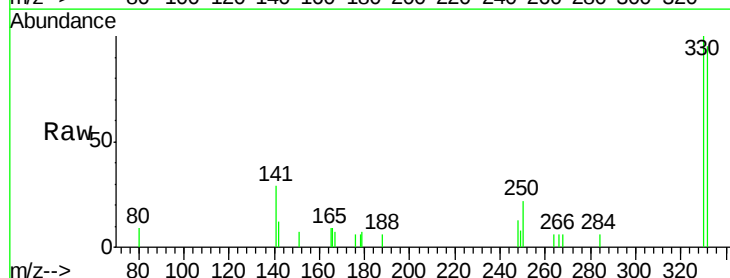
Tgt Ion:330 Resp: 1061

Ion Ratio Lower Upper

330 100

332 96.2 152.7 229.1#

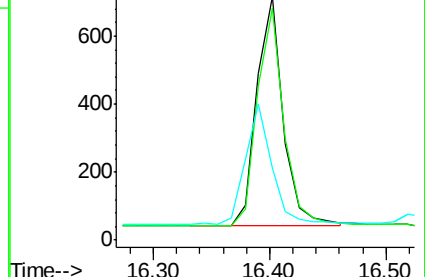
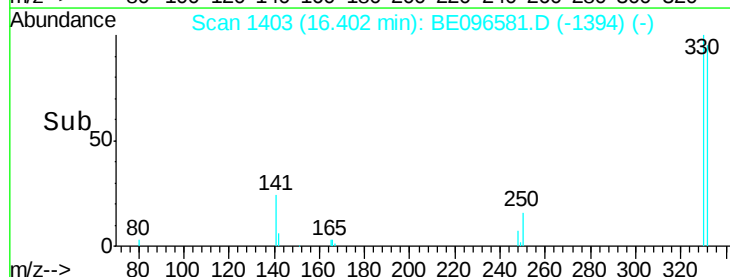
141 52.5 33.7 50.5#

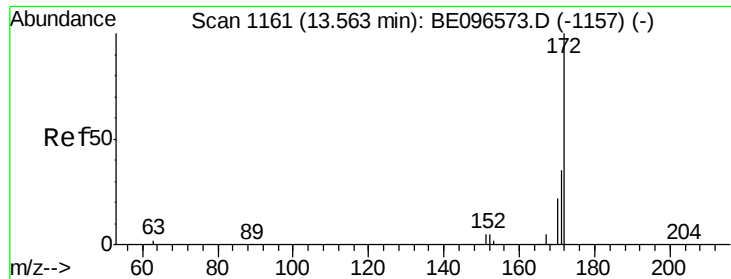


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

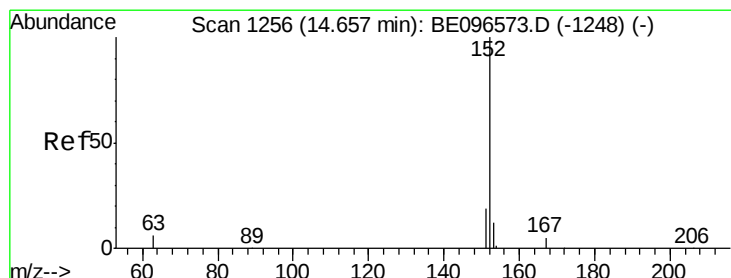
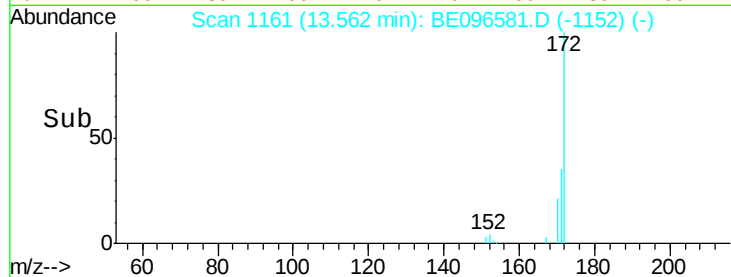
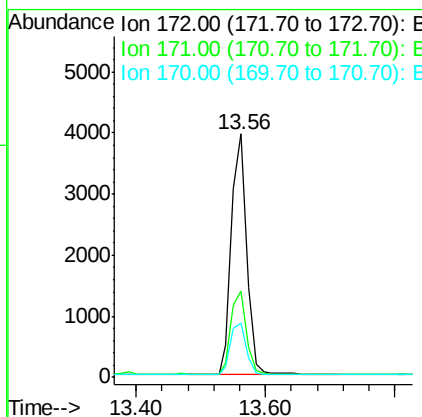
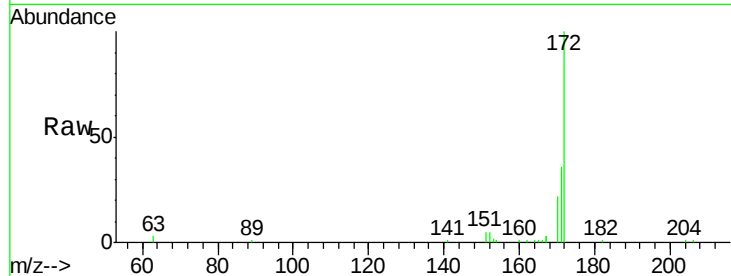




#15
2-Fluorobiphenyl
Concen: 0.884 ng
RT: 13.56 min Scan# 1161
Delta R.T. -0.00 min
Lab File: BE096581.D
Acq: 15 May 2018 16:58

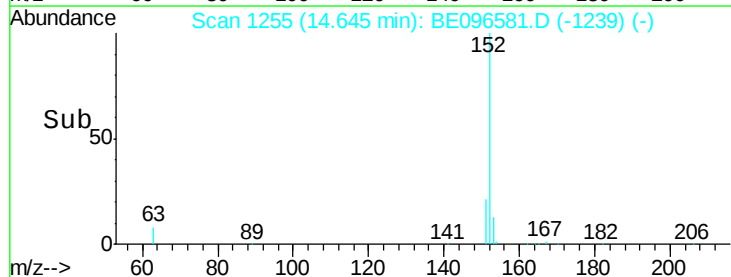
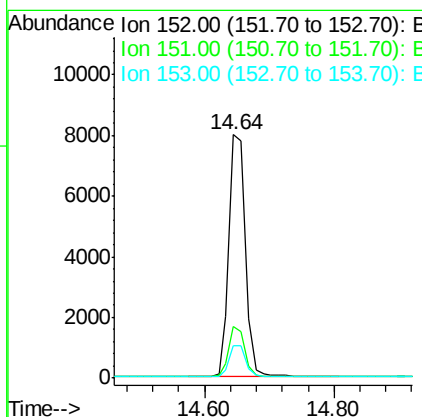
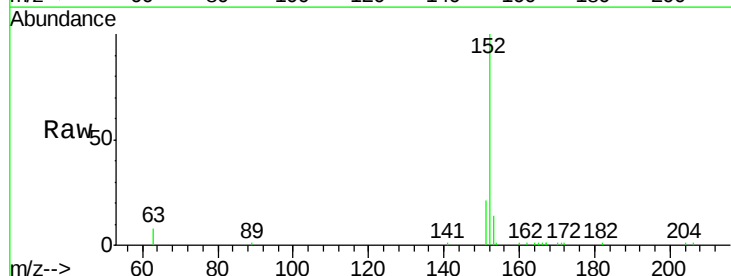
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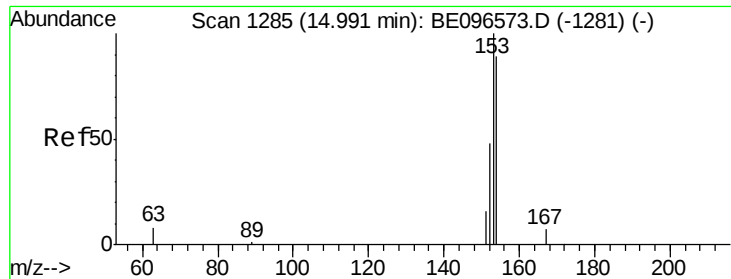
Tot Ion:172 Resp: 6424
Ion Ratio Lower Upper
172 100
171 35.6 29.9 44.9
170 22.4 21.8 32.8



#16
Acenaphthylene
Concen: 1.596 ng
RT: 14.64 min Scan# 1255
Delta R.T. -0.01 min
Lab File: BE096581.D
Acq: 15 May 2018 16:58

Tgt Ion:152 Resp: 14100
Ion Ratio Lower Upper
152 100
151 20.0 15.7 23.5
153 13.0 10.5 15.7





#17

Acenaphthene

Concen: 1.212 ng

RT: 14.99 min Scan# 1285

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

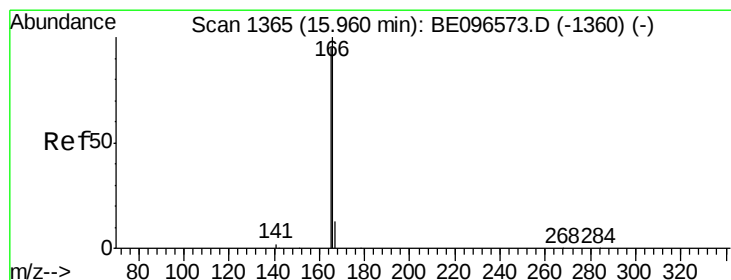
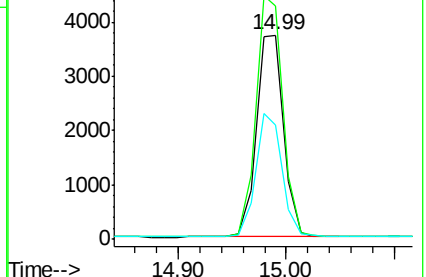
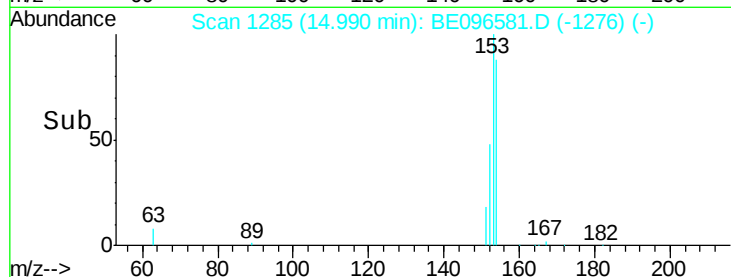
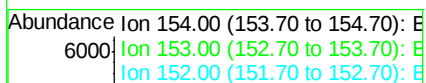
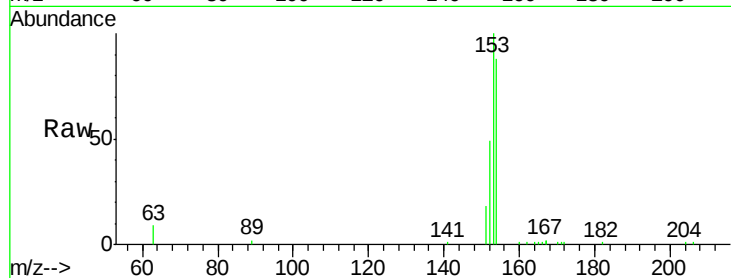
Tot Ion:154 Resp: 6529

Ion Ratio Lower Upper

154 100

153 117.7 89.2 133.8

152 58.4 42.0 63.0



#18

Fluorene

Concen: 1.722 ng

RT: 15.96 min Scan# 1365

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

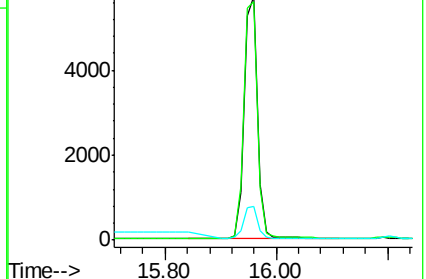
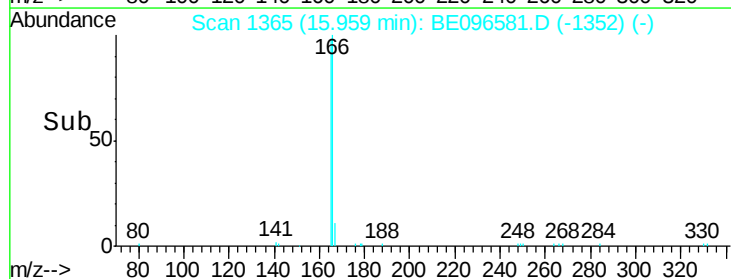
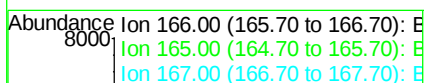
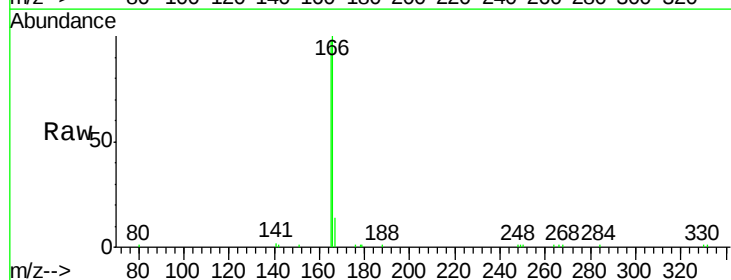
Tgt Ion:166 Resp: 11538

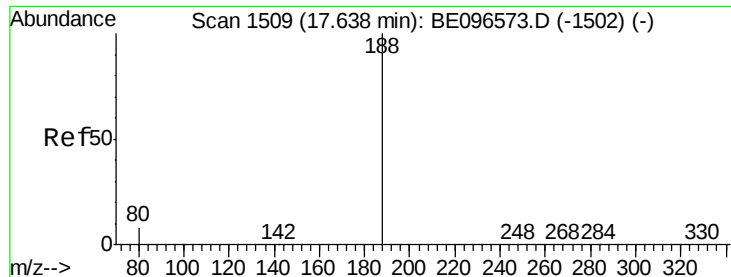
Ion Ratio Lower Upper

166 100

165 100.9 77.8 116.6

167 11.2 42.4 63.6#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.64 min Scan# 1509

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

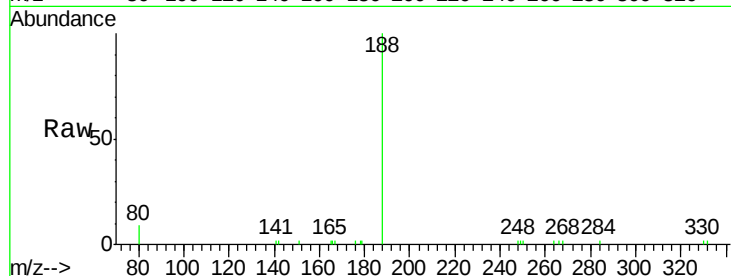
Tot Ion:188 Resp: 3854

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

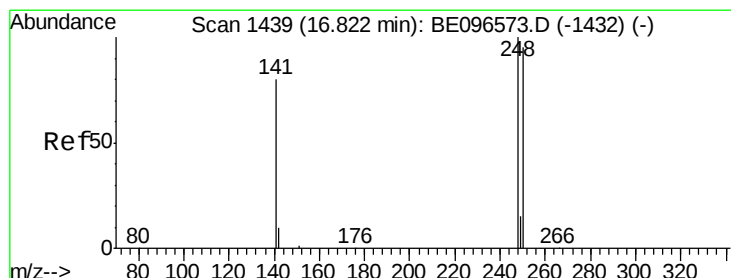
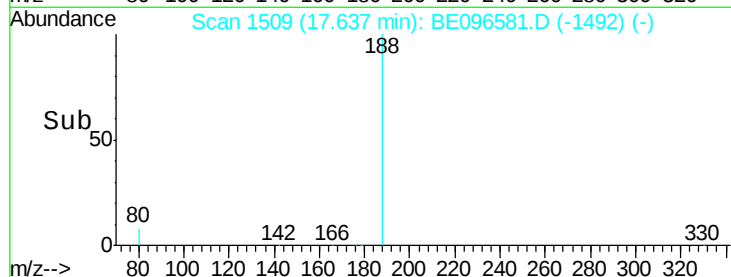
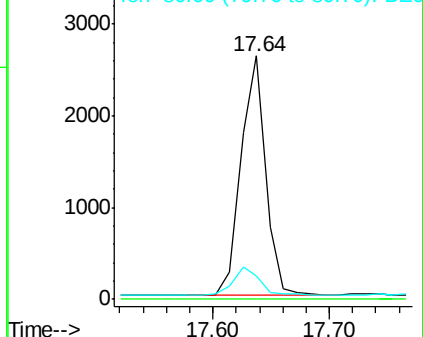
80 9.4 3.6 5.4#



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: 2.046 ng

RT: 16.82 min Scan# 1439

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

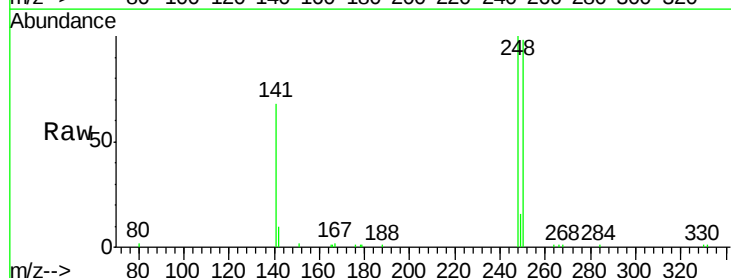
Tgt Ion:248 Resp: 4784

Ion Ratio Lower Upper

248 100

250 97.9 62.7 94.1#

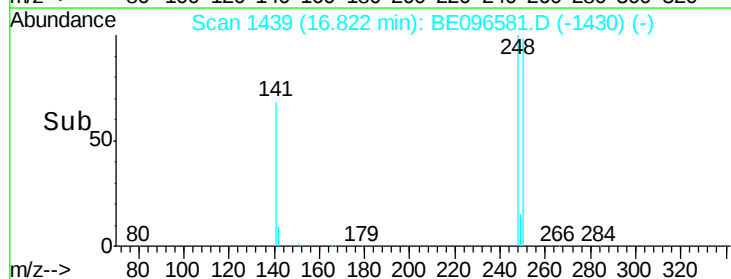
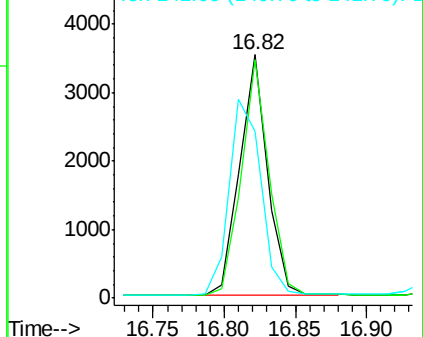
141 68.5 48.2 72.2

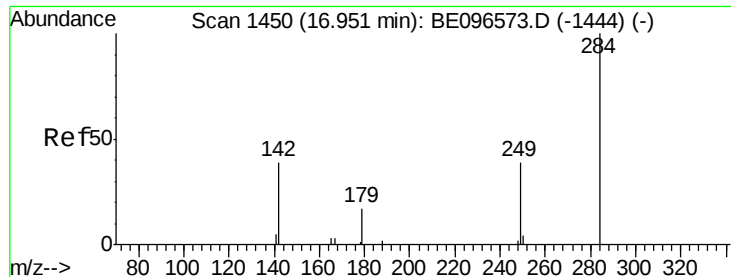


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 1.665 ng

RT: 16.95 min Scan# 1450

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

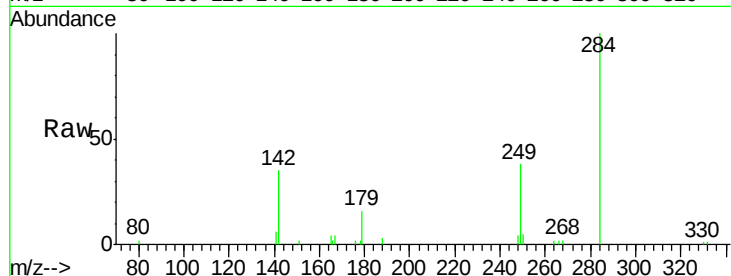
Tot Ion:284 Resp: 4058

Ion Ratio Lower Upper

284 100

142 43.6 22.1 33.1#

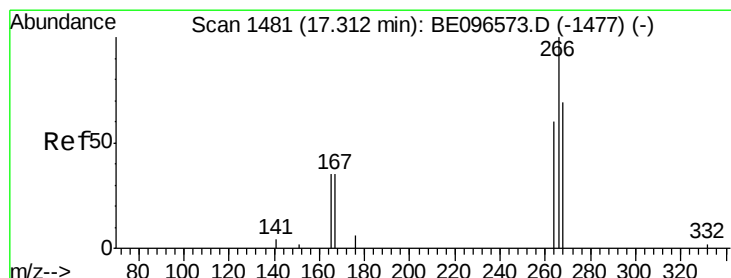
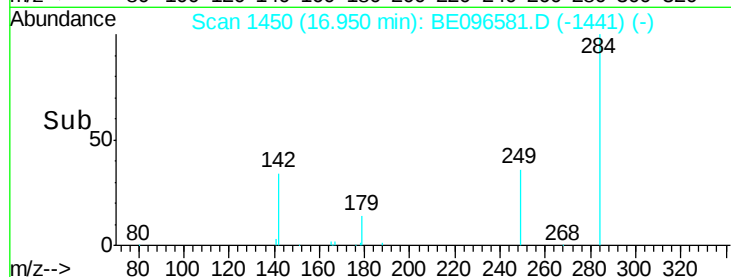
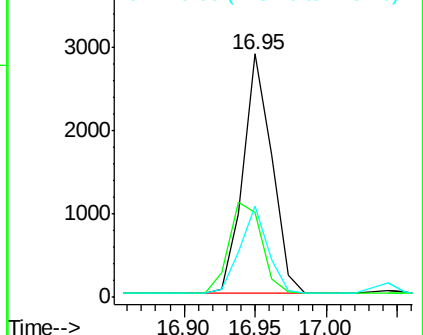
249 35.5 34.8 52.2



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: 2.744 ng

RT: 17.30 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

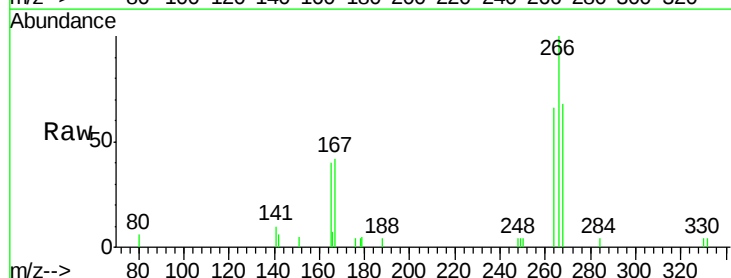
Tgt Ion:266 Resp: 2010

Ion Ratio Lower Upper

266 100

264 66.3 72.5 108.7#

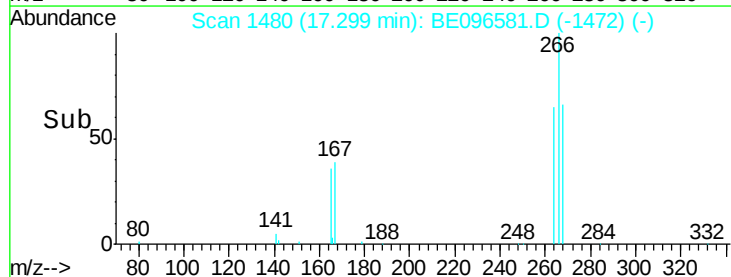
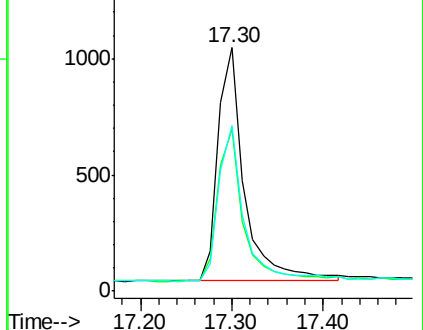
268 68.0 73.8 110.6#

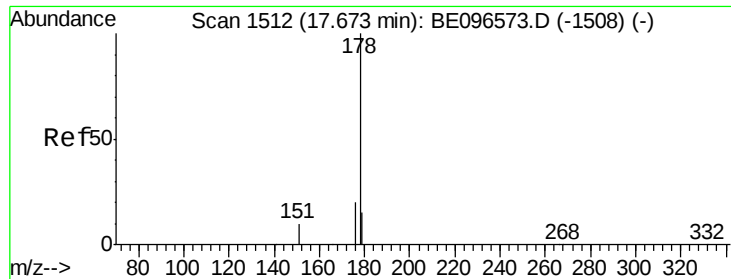


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 1.533 ng

RT: 17.67 min Scan# 1512

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

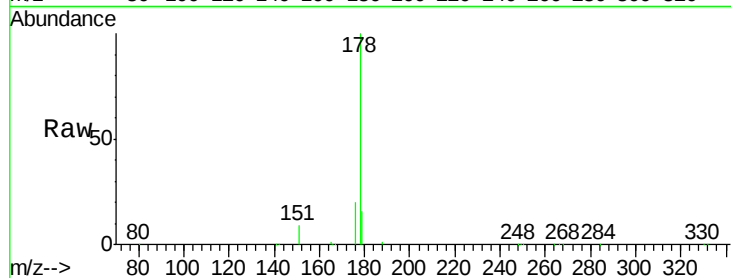
Tot Ion:178 Resp: 16593

Ion Ratio Lower Upper

178 100

176 19.8 15.1 22.7

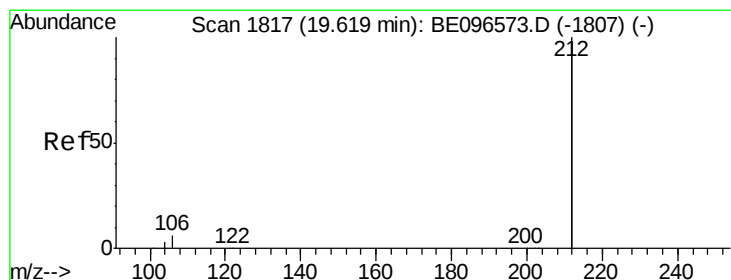
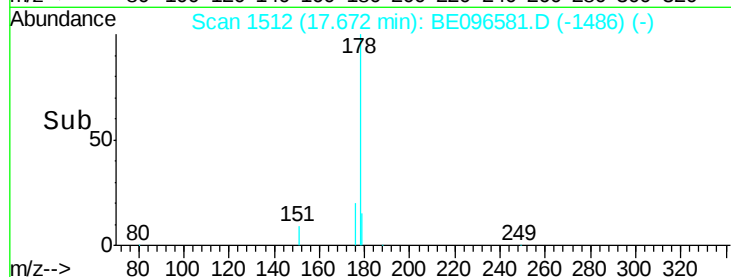
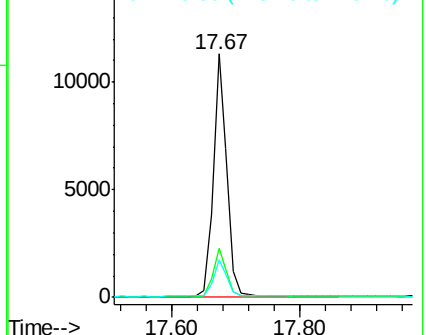
179 14.9 11.8 17.6



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: 0.001 ng

RT: 19.62 min Scan# 1817

Delta R.T. 0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

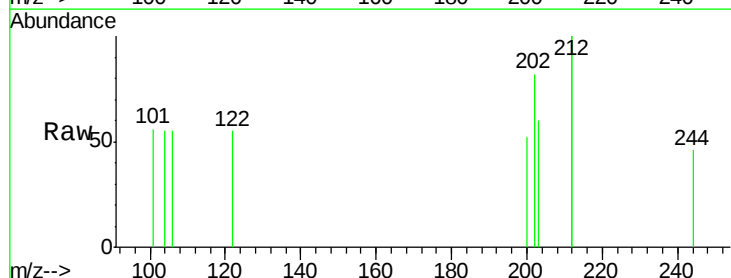
Tgt Ion:212 Resp: 32

Ion Ratio Lower Upper

212 100

106 21.9 2.8 4.2#

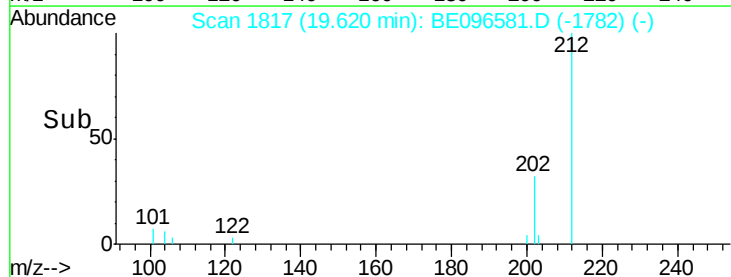
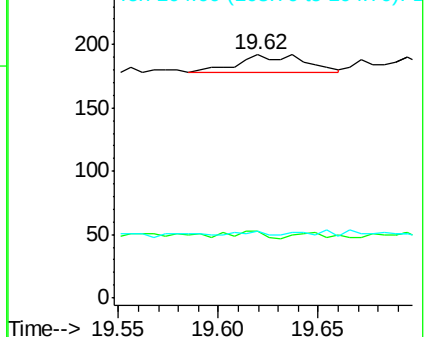
104 12.5 1.6 2.4#

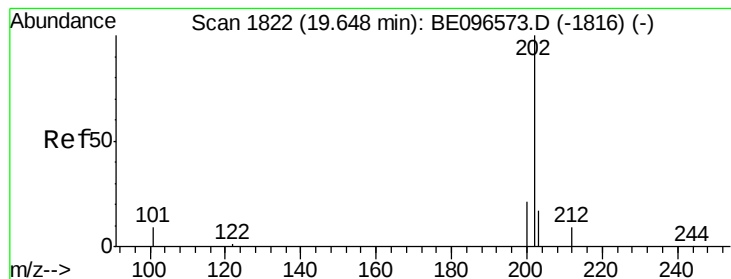


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 1.206 ng

RT: 19.65 min Scan# 1822

Delta R.T. 0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

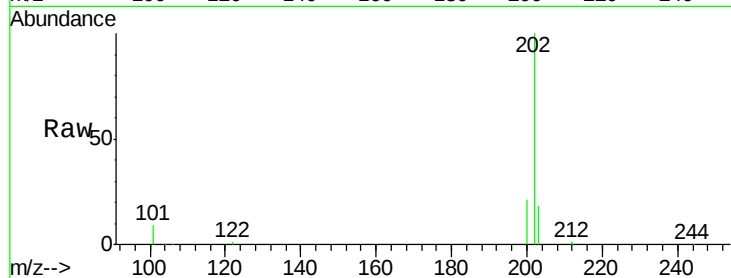
Tot Ion:202 Resp: 15608

Ion Ratio Lower Upper

202 100

101 9.1 9.8 14.8#

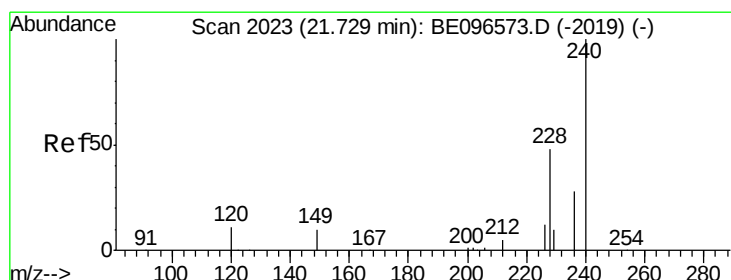
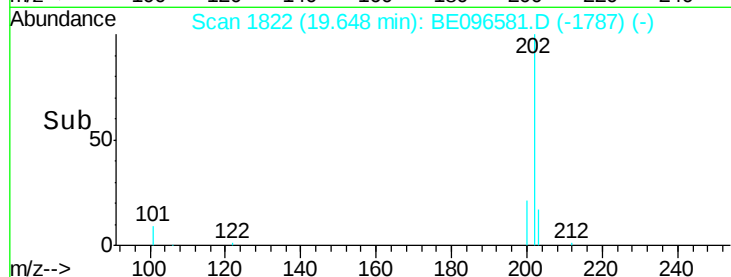
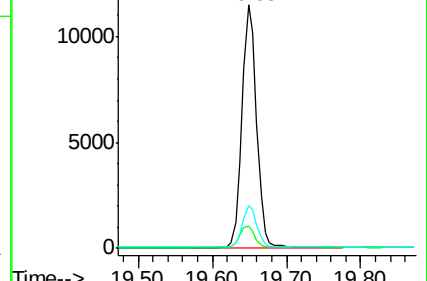
203 17.1 13.7 20.5



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: 21.73 min Scan# 2023

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

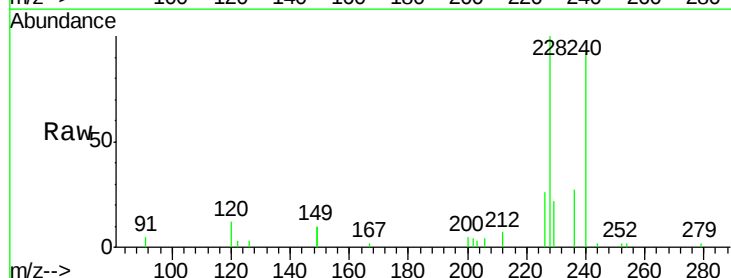
Tgt Ion:240 Resp: 3706

Ion Ratio Lower Upper

240 100

120 13.0 5.5 8.3#

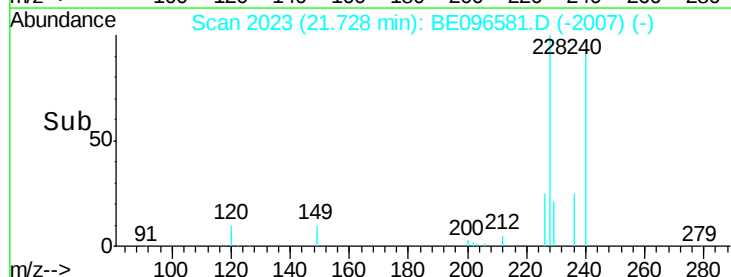
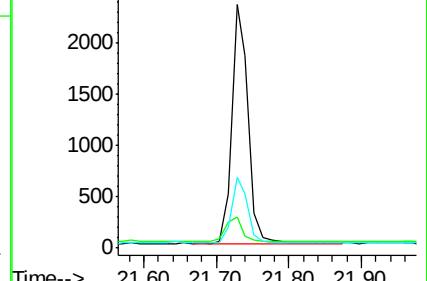
236 29.3 20.7 31.1

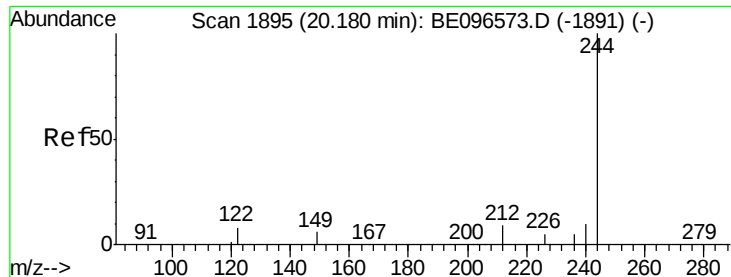


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.990 ng

RT: 20.18 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleID :

PT-BNA-SoilDL

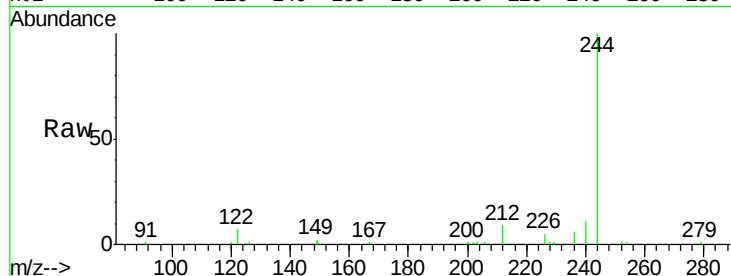
Tot Ion:244 Resp: 8300

Ion Ratio Lower Upper

244 100

212 9.1 25.4 38.0#

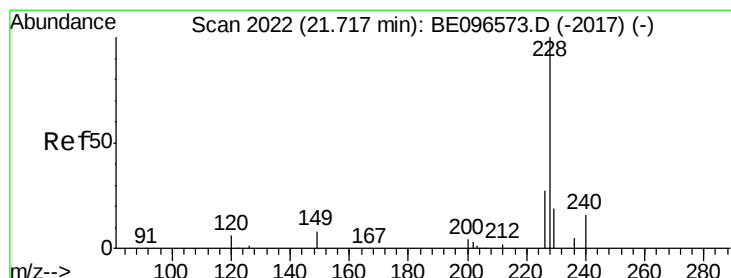
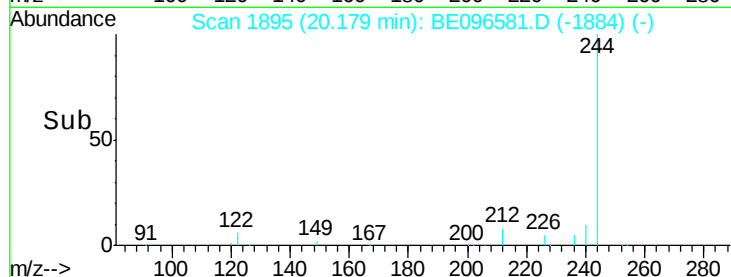
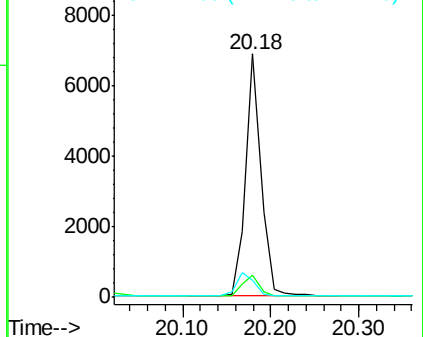
122 7.1 8.1 12.1#



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: 1.020 ng

RT: 21.72 min Scan# 2022

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

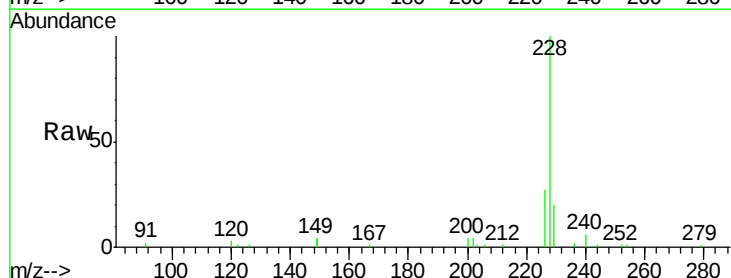
Tgt Ion:228 Resp: 11618

Ion Ratio Lower Upper

228 100

226 27.3 24.0 36.0

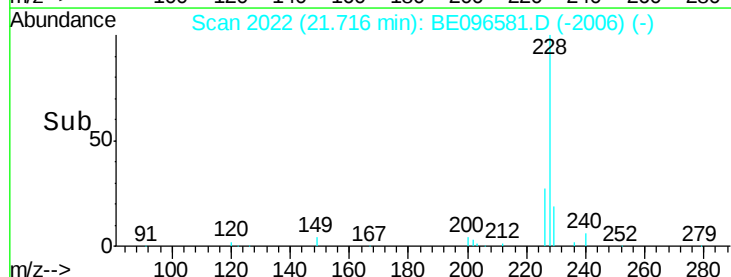
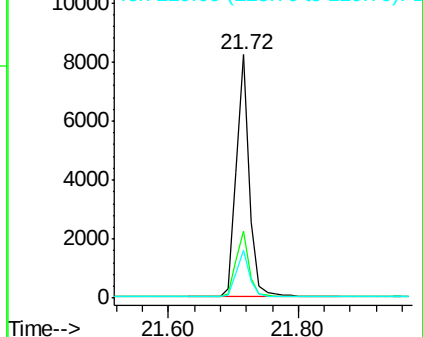
229 19.7 16.0 24.0

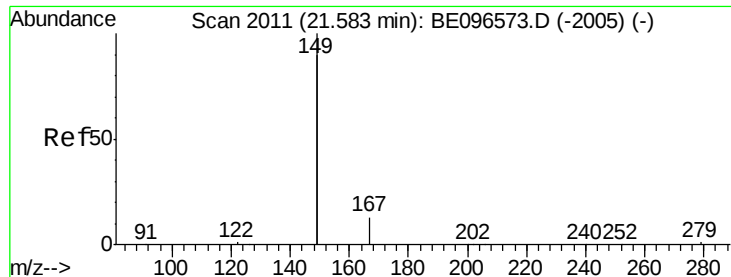


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 2.125 ng

RT: 21.58 min Scan# 2011

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

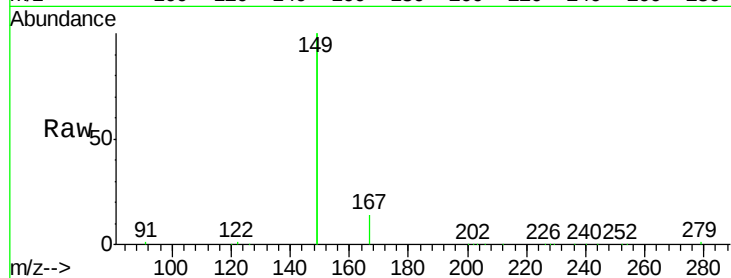
Tot Ion:149 Resp: 51826

Ion Ratio Lower Upper

149 100

167 6.6 5.4 8.0

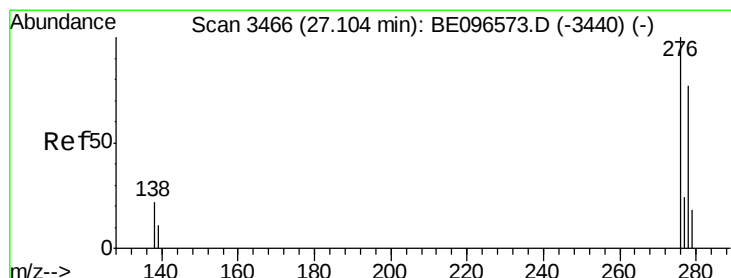
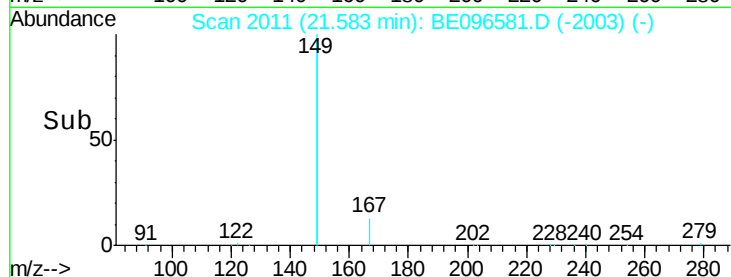
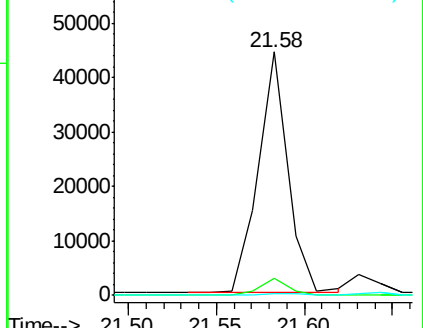
279 0.8 0.7 1.1



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: 1.009 ng

RT: 27.10 min Scan# 3464

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

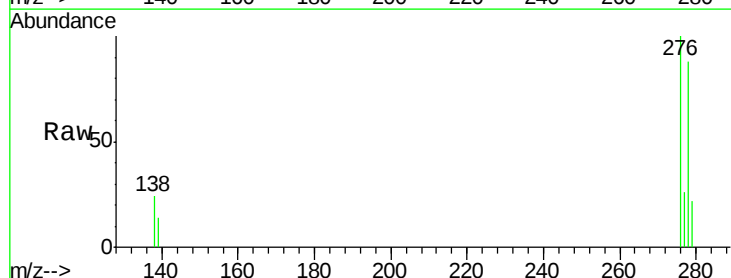
Tgt Ion:276 Resp: 11470

Ion Ratio Lower Upper

276 100

138 22.1 22.5 33.7#

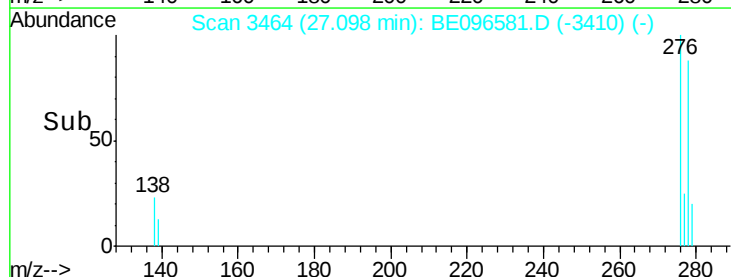
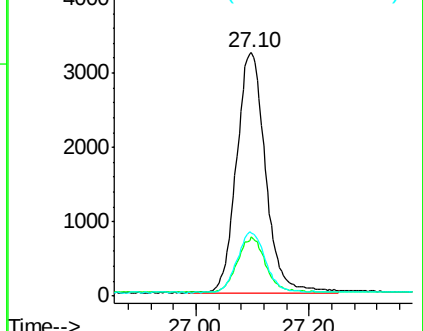
277 24.4 19.9 29.9

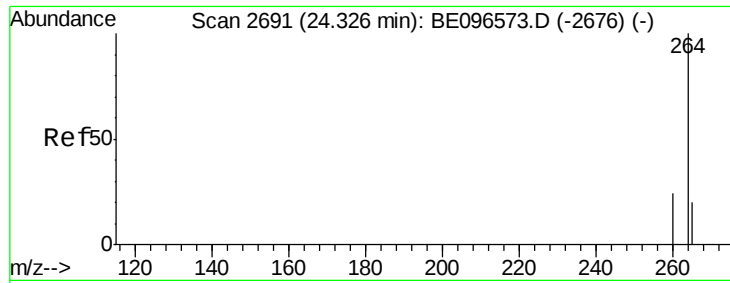


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

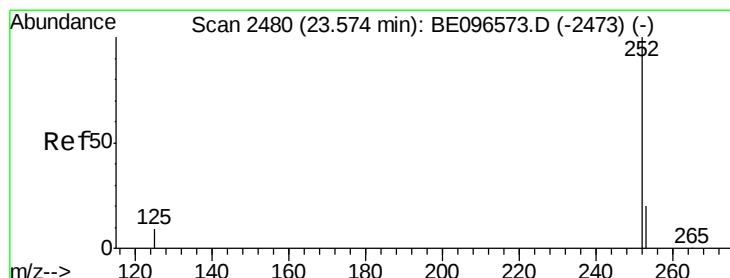
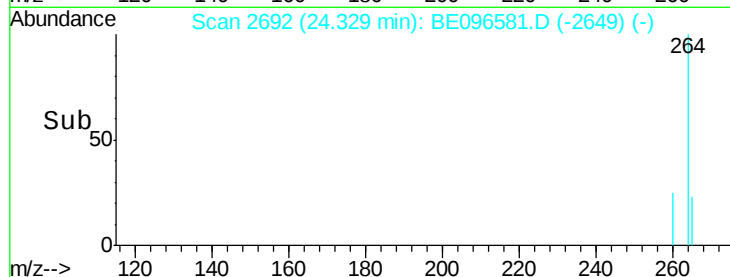
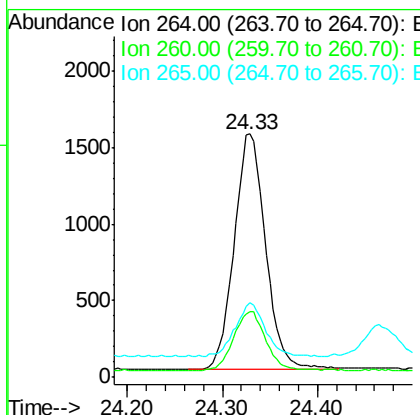
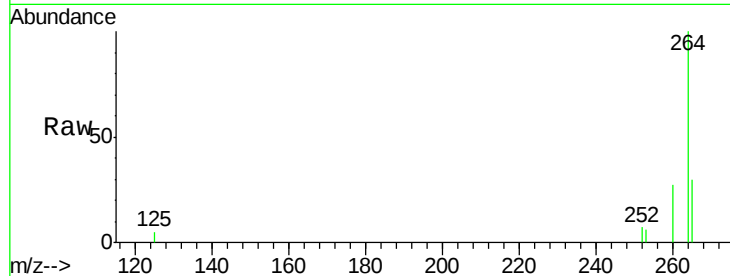




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.33 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: BE096581.D
 Acq: 15 May 2018 16:58

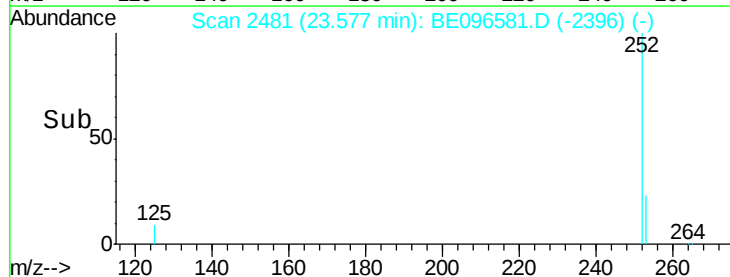
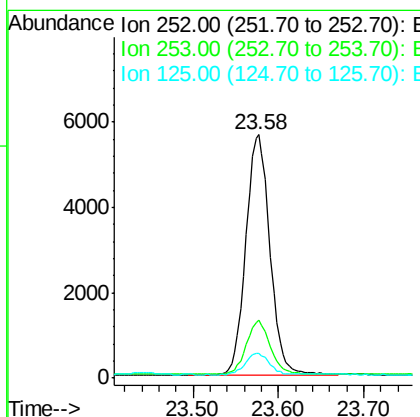
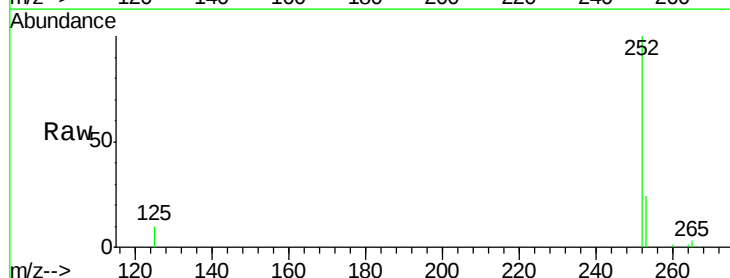
Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SoilDL

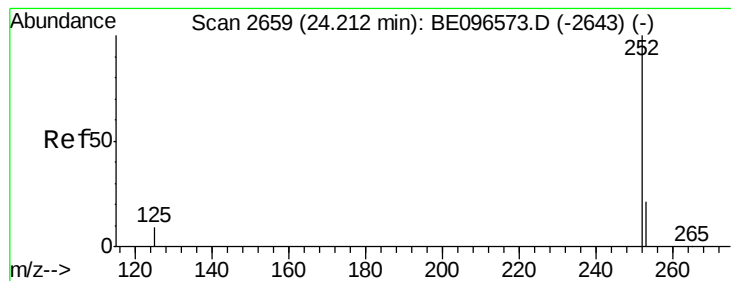
Tot Ion:264 Resp: 3542
 Ion Ratio Lower Upper
 264 100
 260 27.1 20.5 30.7
 265 30.5 22.8 34.2



#36
 Benzo(k)fluoranthene
 Concen: 0.964 ng
 RT: 23.58 min Scan# 2481
 Delta R.T. 0.00 min
 Lab File: BE096581.D
 Acq: 15 May 2018 16:58

Tgt Ion:252 Resp: 11147
 Ion Ratio Lower Upper
 252 100
 253 24.1 16.0 24.0#
 125 10.3 8.0 12.0





#37

Benzo(a)pyrene

Concen: 1.326 ng

RT: 24.21 min Scan# 2659

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

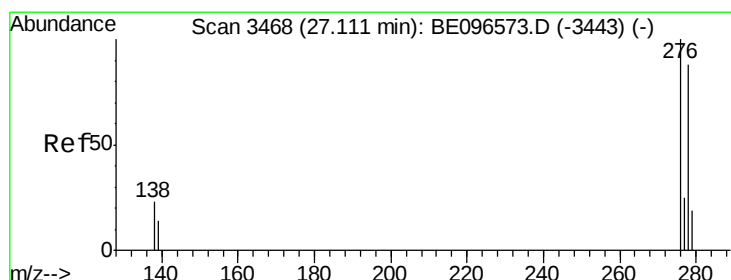
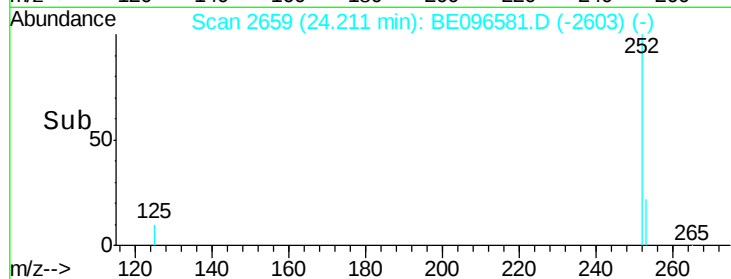
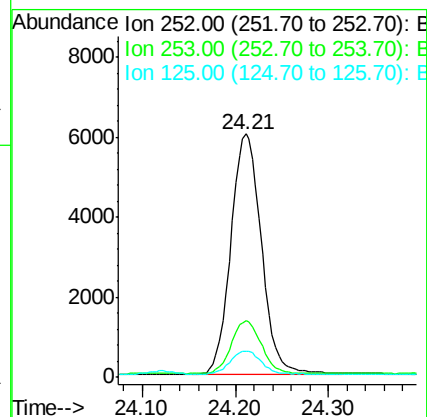
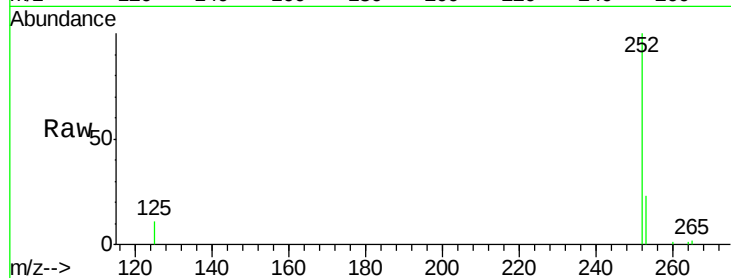
Tot Ion:252 Resp: 13845

Ion Ratio Lower Upper

252 100

253 23.2 16.0 24.0

125 10.8 12.0 18.0#



#38

Dibenzo(a,h)anthracene

Concen: 1.102 ng

RT: 27.11 min Scan# 3467

Delta R.T. -0.00 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

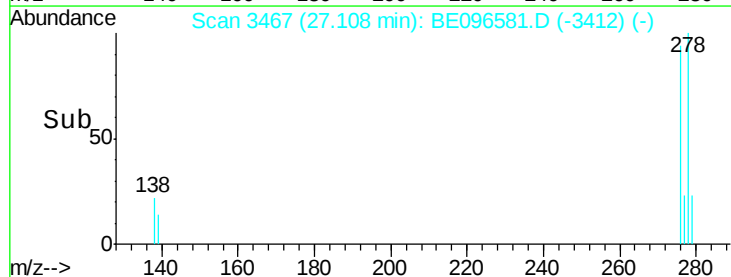
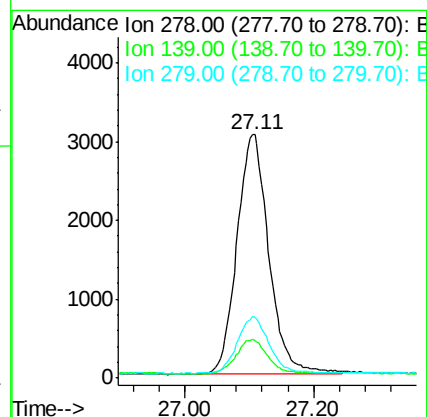
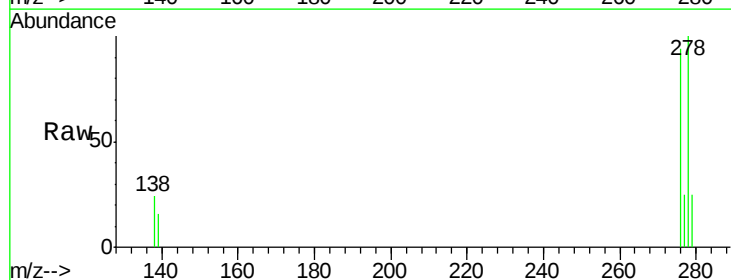
Tgt Ion:278 Resp: 10526

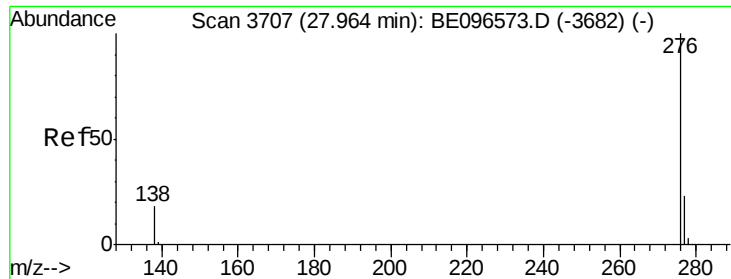
Ion Ratio Lower Upper

278 100

139 15.7 16.0 24.0#

279 24.6 20.0 30.0





#39

Benzo(a,h,i)perylene

Concen: 1.153 ng

RT: 27.96 min Scan# 3705

Delta R.T. -0.01 min

Lab File: BE096581.D

Acq: 15 May 2018 16:58

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

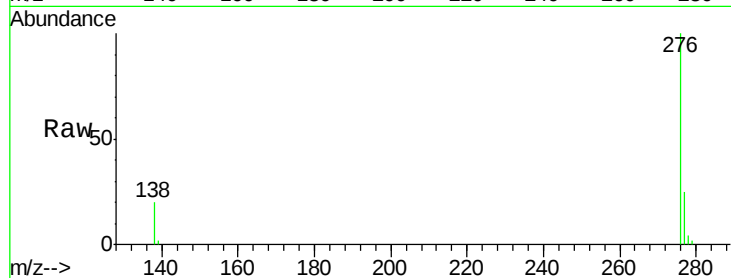
Tot Ion: 276 Resp: 11528

Ion Ratio Lower Upper

276 100

277 24.7 16.0 24.0#

138 19.6 20.0 30.0#



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

