

Data File : BF100439.D
Acq On : 11 Nov 2017 14:35
Operator : SJ/JU
Sample : I6396-05 20X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LS-SOIL

Quant Time: Nov 13 01:08:07 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 10 15:44:40 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	124927	20.00	ng	0.00
21) Naphthalene-d8	8.19	136	442455	20.00	ng	0.00
38) Acenaphthene-d10	9.94	164	170165	20.00	ng	0.00
63) Phenanthrene-d10	11.43	188	289873	20.00	ng	0.00
75) Chrysene-d12	14.07	240	278108	20.00	ng	0.00
86) Perylene-d12	15.56	264	206351	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.51	112	56752	7.28	ng	0.00
7) Phenol-d6	6.52	99	67153	6.99	ng	-0.01
23) Nitrobenzene-d5	7.46	82	33182	4.96	ng	-0.01
41) 2,4,6-Tribromophenol	10.73	330	10363	5.98	ng	0.00
44) 2-Fluorobiphenyl	9.26	172	63243	5.66	ng	0.00
78) Terphenyl-d14	13.01	244	53686	4.44	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.46	82	33181	2.36	ng	# 64
31) Naphthalene	8.20	128	58352	2.74	ng	97
32) Benzoic acid	7.96	122	611	9.47	ng	# 1
50) 2,6-Dinitrotoluene	9.94	165	22456	8.73	ng	# 25
55) 4-Nitrophenol	10.15	139	9429	3.82	ng	# 9
56) 2,4-Dinitrotoluene	9.94	165	22453	6.92	ng	# 23
57) Fluorene	10.49	166	25422	2.30	ng	95
70) Phenanthrene	11.45	178	420307	27.54	ng	99
71) Anthracene	11.50	178	97843	6.32	ng	98
72) Carbazole	11.66	167	54801	3.84	ng	98
74) Fluoranthene	12.65	202	800987	49.52	ng	97
77) Pyrene	12.87	202	699404	35.28	ng	100
80) Benzo(a)anthracene	14.06	228	403722	24.11	ng	98
82) Chrysene	14.09	228	376638	23.22	ng	97
87) Benzo(b)fluoranthene	15.12	252	447171	36.58	ng	97
88) Benzo(k)fluoranthene	15.12	252	447171	38.71	ng	98
89) Benzo(a)pyrene	15.49	252	194600	17.96	ng	97
90) Dibenzo(a,h)anthracene	17.06	278	27433	3.10	ng	# 91
91) Benzo(g,h,i)perylene	17.50	276	88180	10.16	ng	95

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

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BNA_F

ClientSampleId :

LS-SOIL

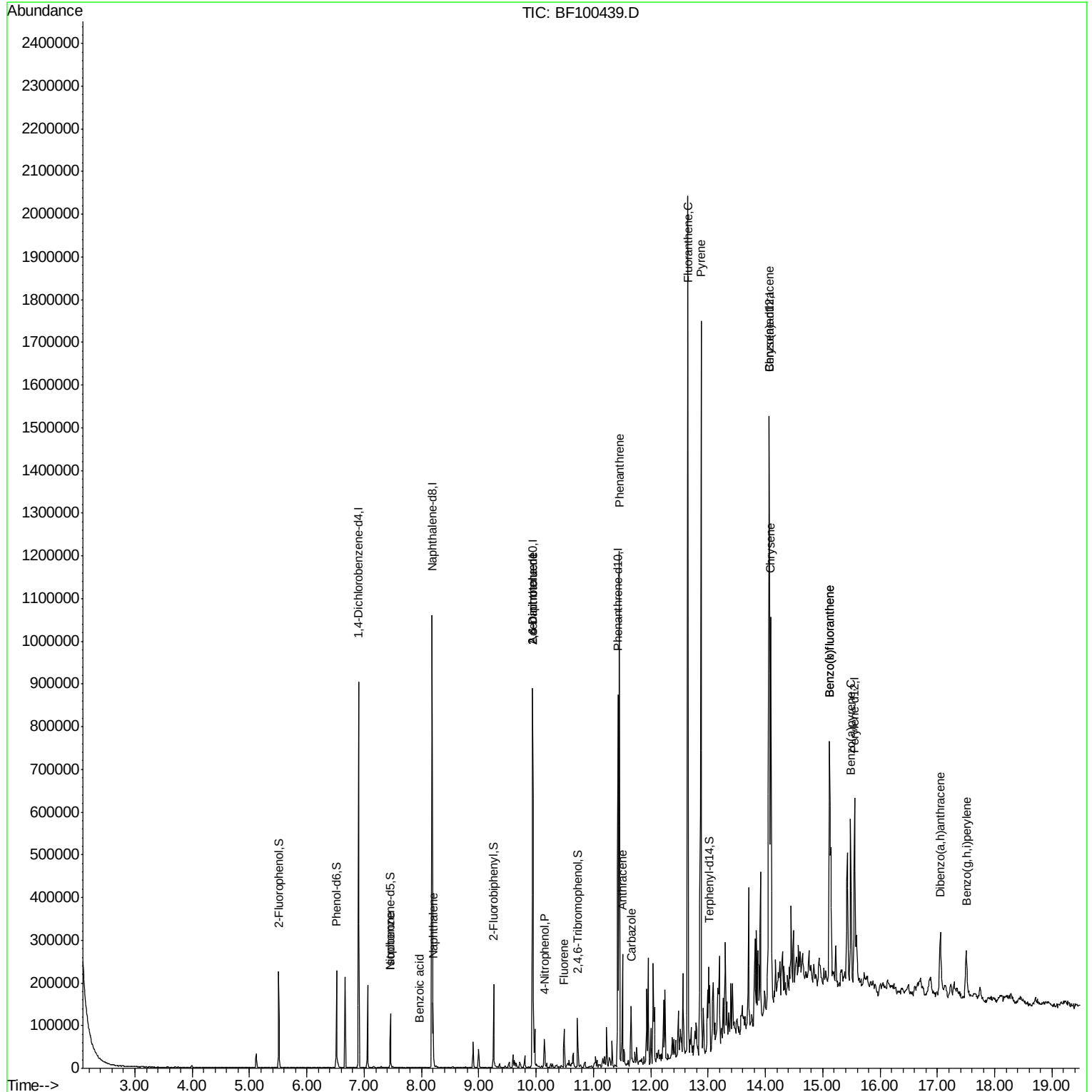
Quant Time: Nov 13 01:08:07 2017

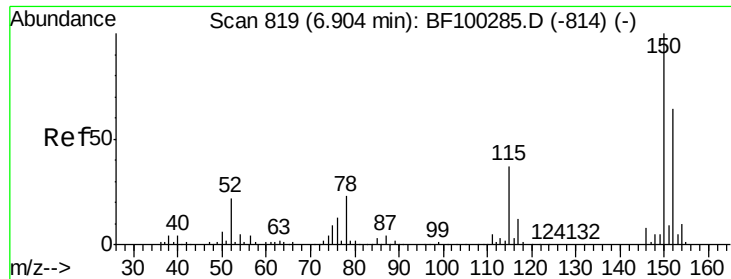
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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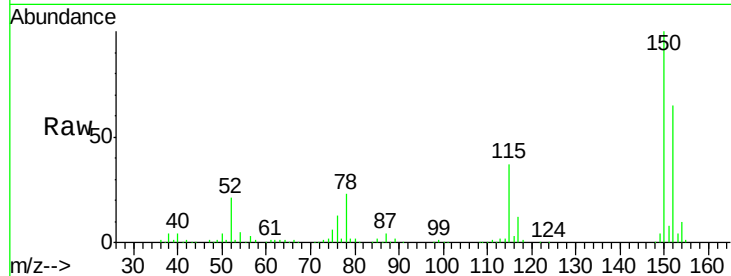


#1

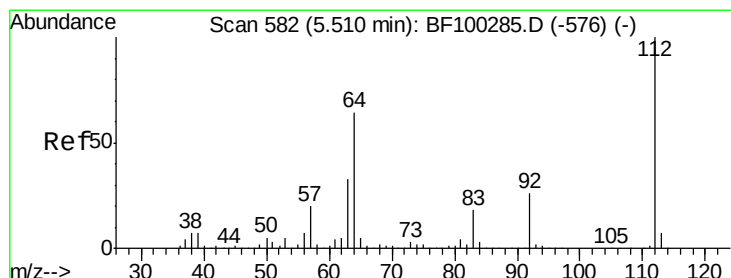
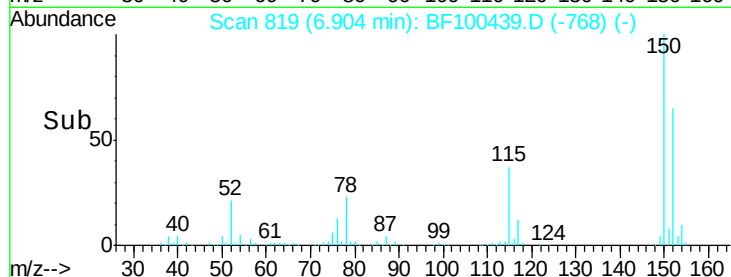
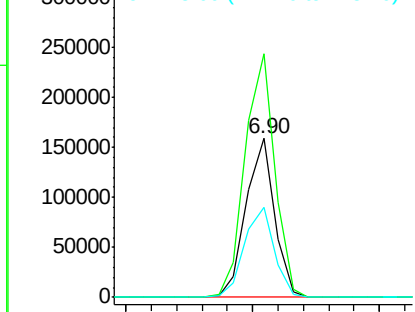
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 819
Delta R.T. -0.00 min
Lab File: BF100439.D
Acq: 11 Nov 2017 14:35

Instrument :
BNA_F
ClientSampleId :
LS-SOIL

Tgt Ion:152 Resp: 124927
Ion Ratio Lower Upper
152 100
150 153.5 124.6 186.8
115 56.9 50.1 75.1



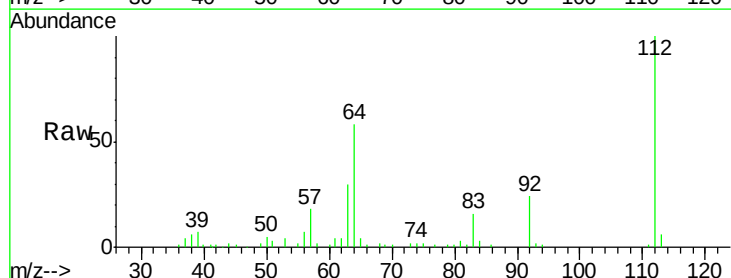
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



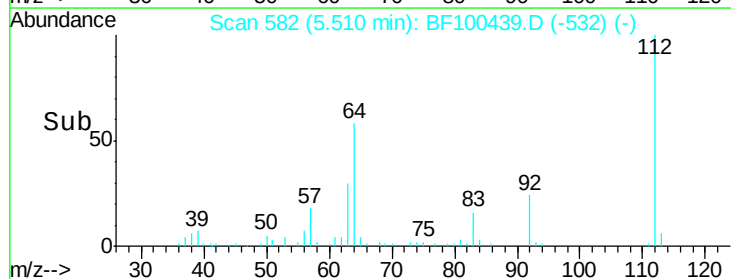
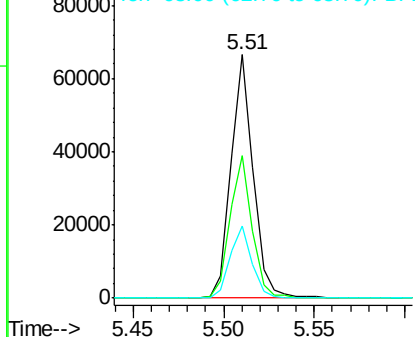
#5

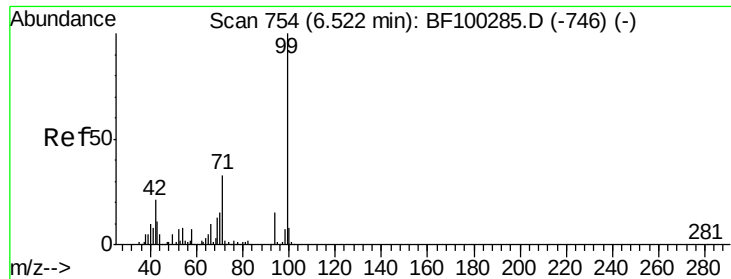
2-Fluorophenol
Concen: 7.28 ng
RT: 5.51 min Scan# 582
Delta R.T. -0.01 min
Lab File: BF100439.D
Acq: 11 Nov 2017 14:35

Tgt Ion:112 Resp: 56752
Ion Ratio Lower Upper
112 100
64 58.3 47.9 71.9
63 29.6 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 6.99 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Instrument :

BNA_F

ClientSampled :

LS-SOIL

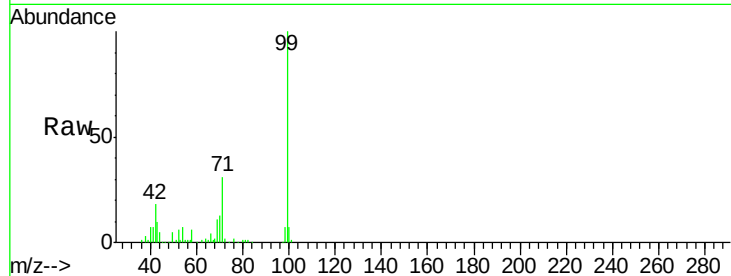
Tgt Ion: 99 Resp: 67153

Ion Ratio Lower Upper

99 100

42 18.1 14.5 21.7

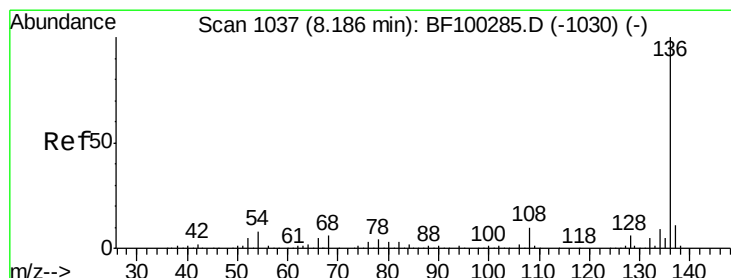
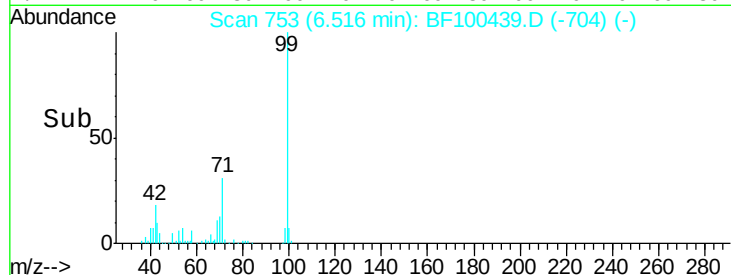
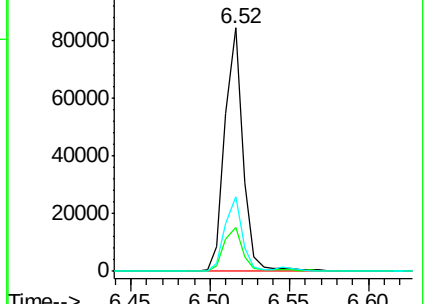
71 30.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.00 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Tgt Ion: 136 Resp: 442455

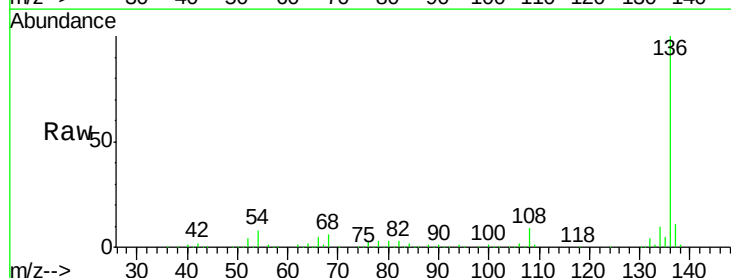
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 8.2 6.6 9.8

68 6.2 5.0 7.4

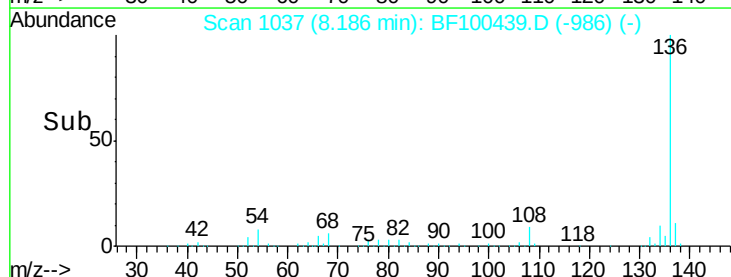
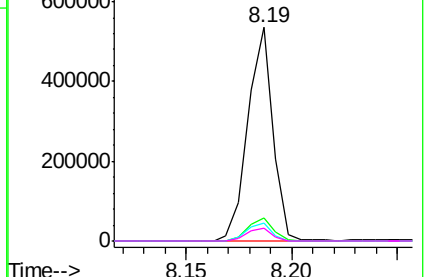


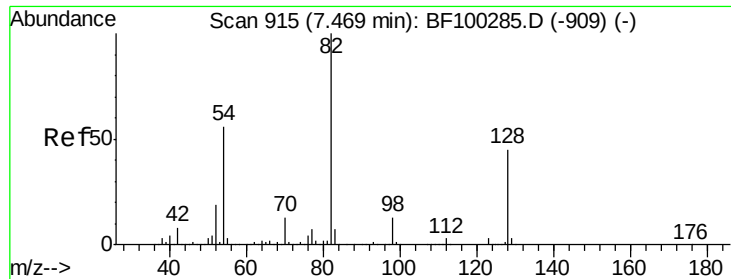
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

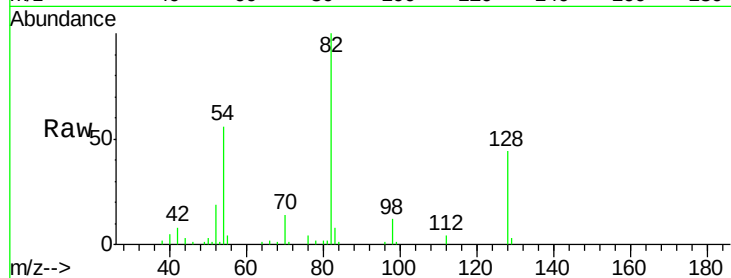




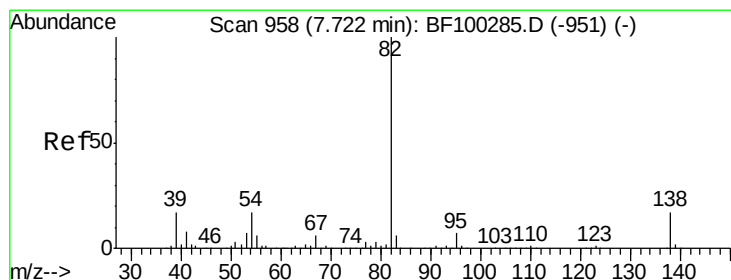
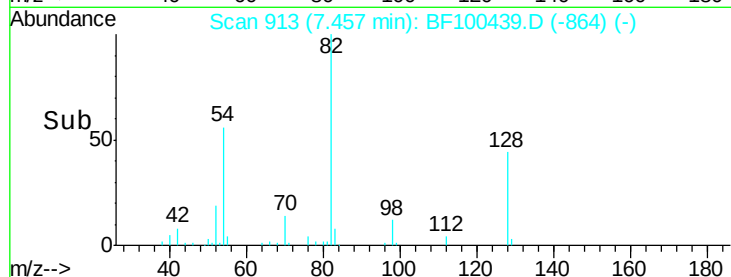
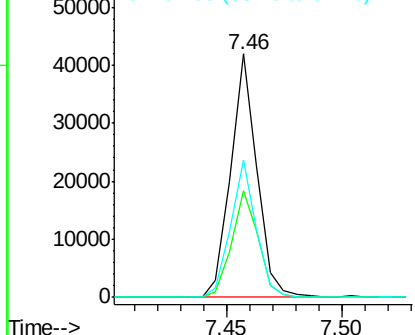
#23
 Nitrobenzene-d5
 Concen: 4.96 ng
 RT: 7.46 min Scan# 913
 Delta R.T. -0.01 min
 Lab File: BF100439.D
 Acq: 11 Nov 2017 14:35

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.6	36.1	54.1
54	56.4	41.4	62.2

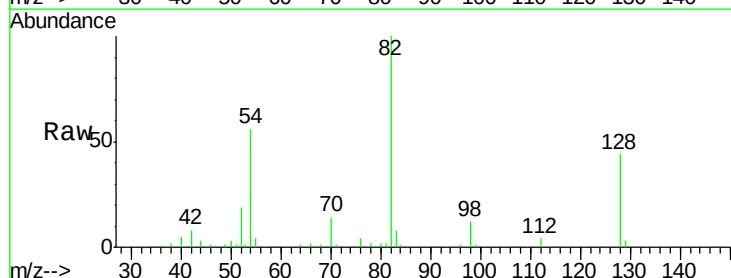


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

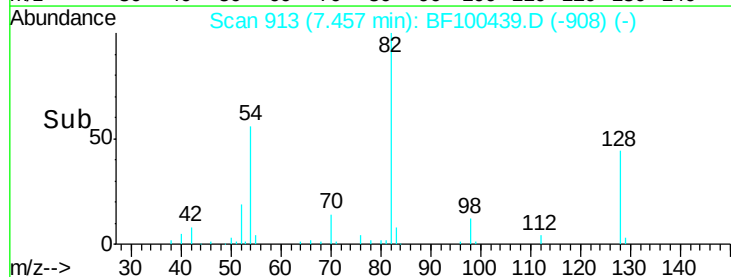
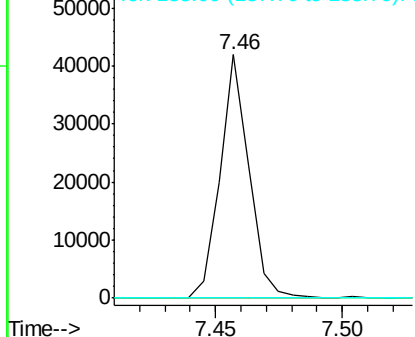


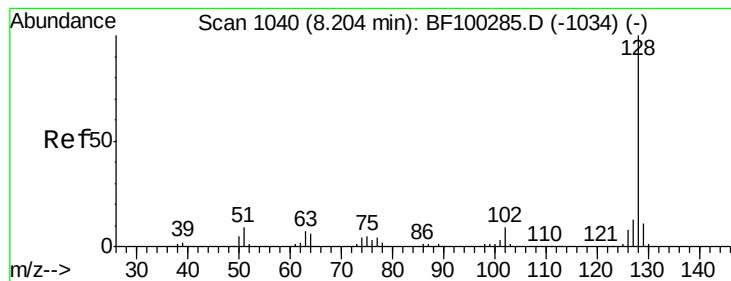
#25
 Isophorone
 Concen: 2.36 ng
 RT: 7.46 min Scan# 913
 Delta R.T. -0.27 min
 Lab File: BF100439.D
 Acq: 11 Nov 2017 14:35

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 95.00 (94.70 to 95.70): BF1
 Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 2.74 ng

RT: 8.20 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Instrument :

BNA_F

ClientSampleId :

LS-SOIL

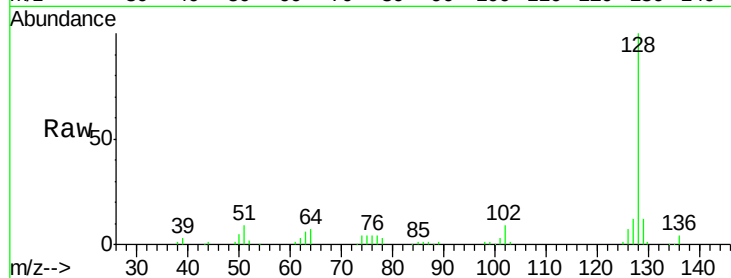
Tgt Ion:128 Resp: 58352

Ion Ratio Lower Upper

128 100

129 12.0 8.8 13.2

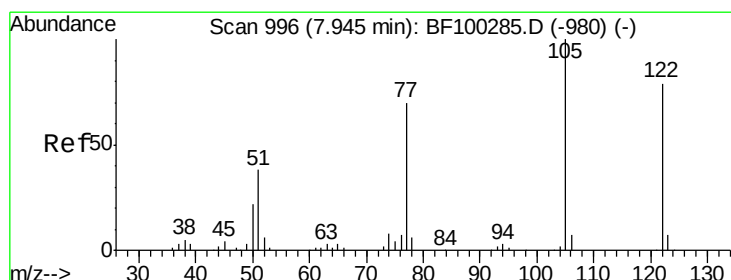
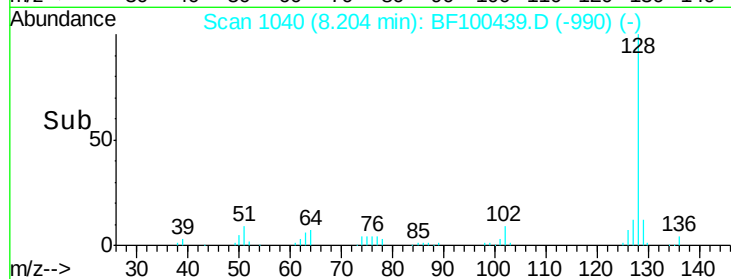
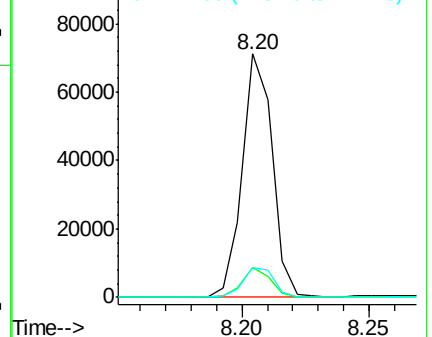
127 12.4 10.9 16.3



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



#32

Benzoic acid

Concen: 9.47 ng

RT: 7.96 min Scan# 999

Delta R.T. 0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

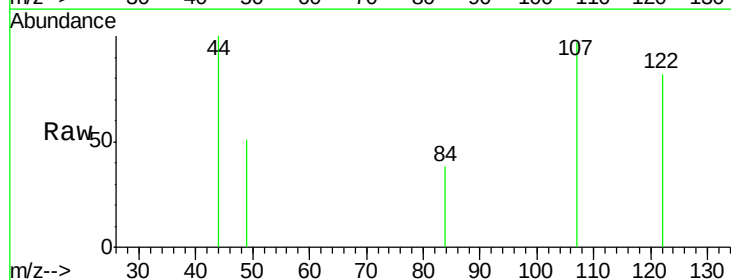
Tgt Ion:122 Resp: 611

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

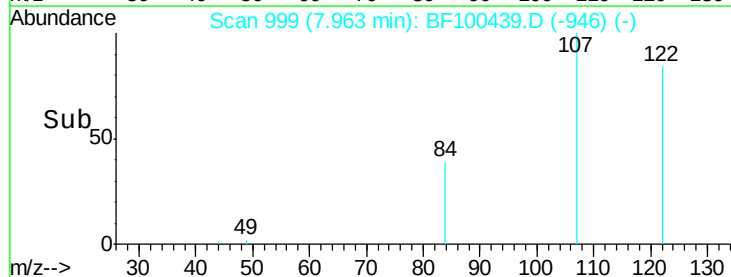
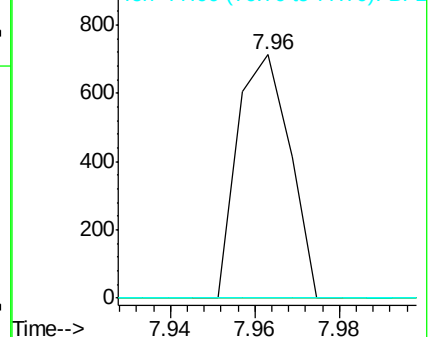
77 0.0 70.7 110.7#

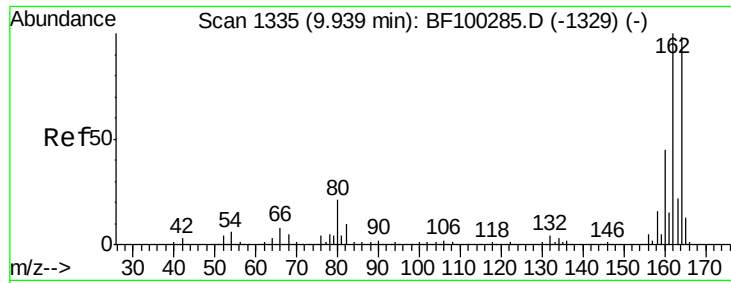


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

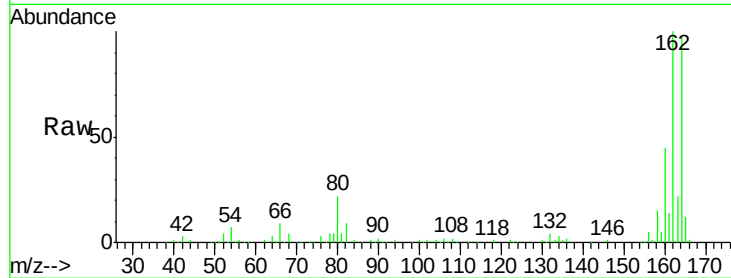




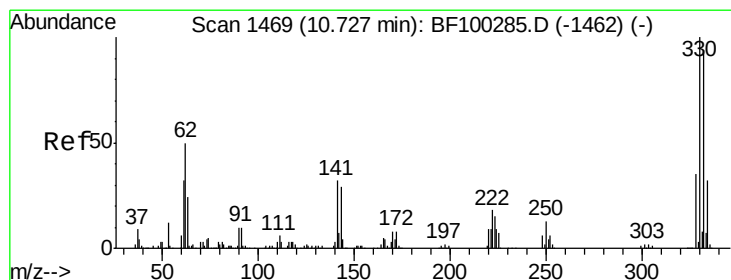
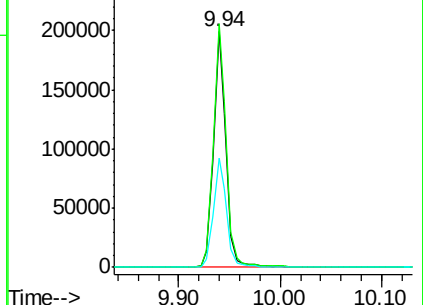
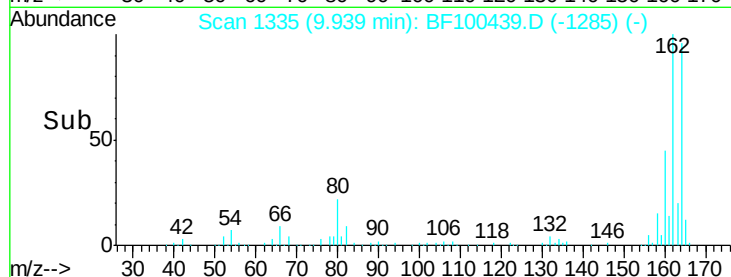
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.94 min Scan# 1335
 Delta R.T. -0.01 min
 Lab File: BF100439.D
 Acq: 11 Nov 2017 14:35

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL

Tgt Ion:164 Resp: 170165
 Ion Ratio Lower Upper
 164 100
 162 103.4 86.1 129.1
 160 46.5 38.3 57.5

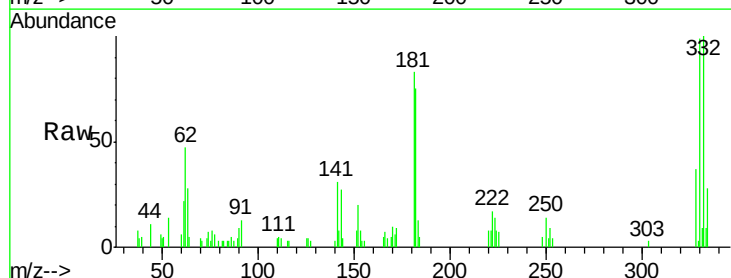


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

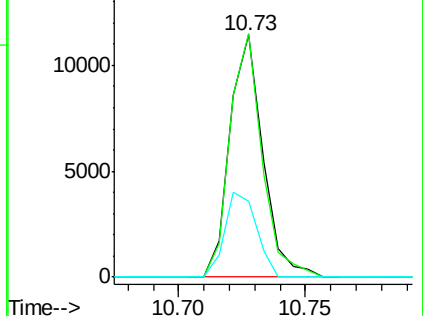
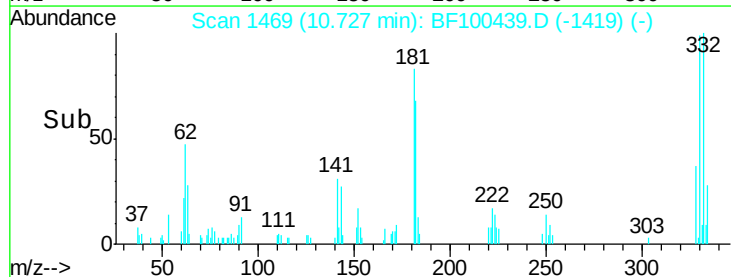


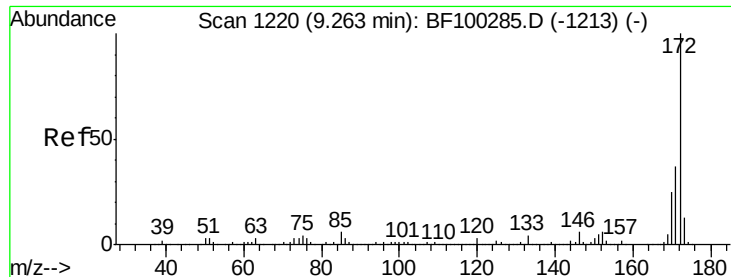
#41
 2,4,6-Tribromophenol
 Concen: 5.98 ng
 RT: 10.73 min Scan# 1469
 Delta R.T. -0.01 min
 Lab File: BF100439.D
 Acq: 11 Nov 2017 14:35

Tgt Ion:330 Resp: 10363
 Ion Ratio Lower Upper
 330 100
 332 97.5 77.0 115.6
 141 33.7 29.9 44.9



Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

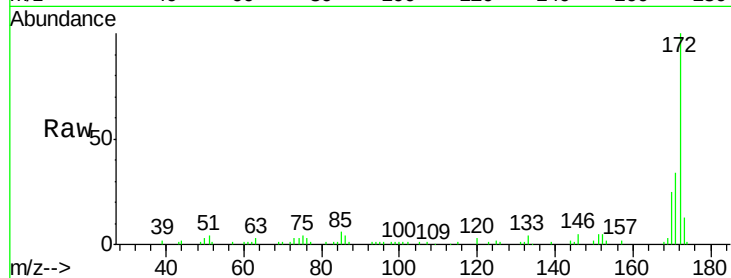




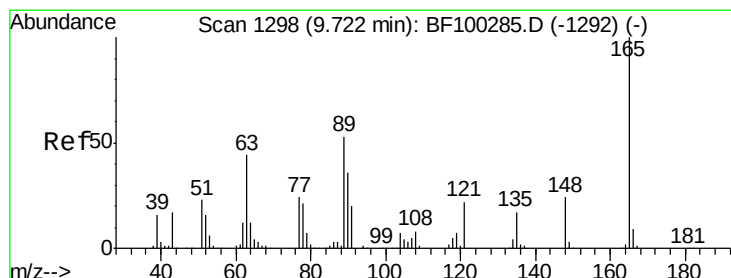
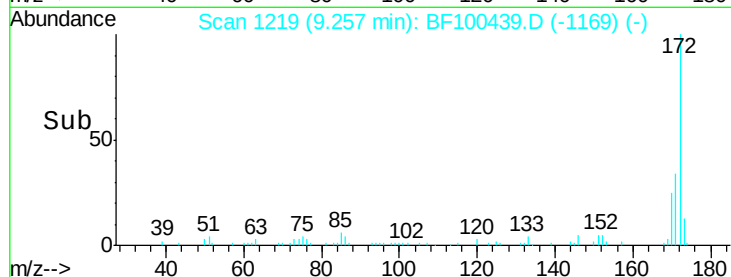
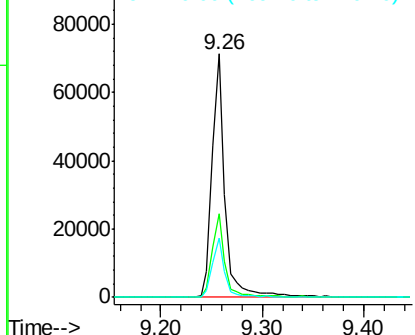
#44
 2-Fluorobiphenyl
 Concen: 5.66 ng
 RT: 9.26 min Scan# 1219
 Delta R.T. -0.01 min
 Lab File: BF100439.D
 Acq: 11 Nov 2017 14:35

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL

Tgt Ion:172 Resp: 63243
 Ion Ratio Lower Upper
 172 100
 171 34.4 29.7 44.5
 170 24.5 19.6 29.4

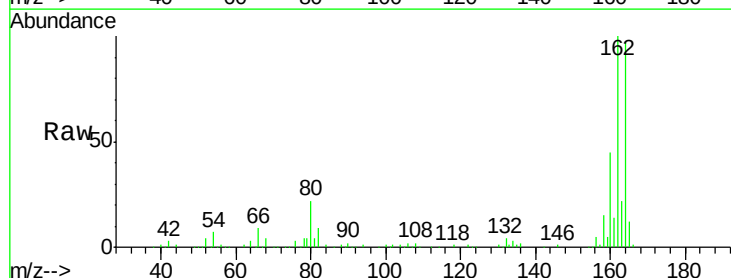


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

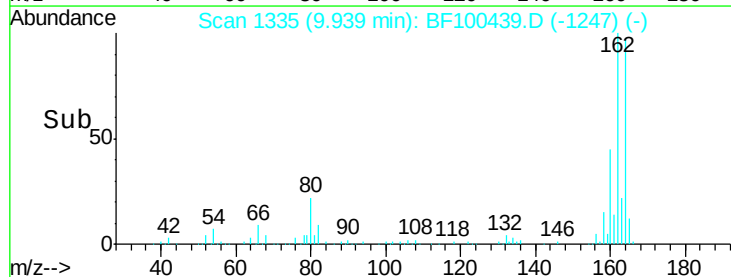
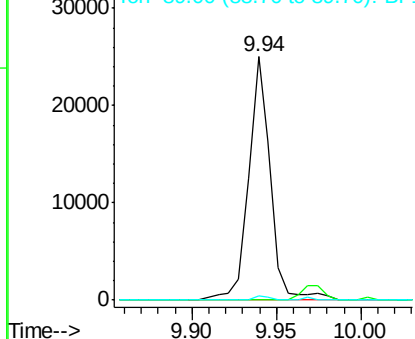


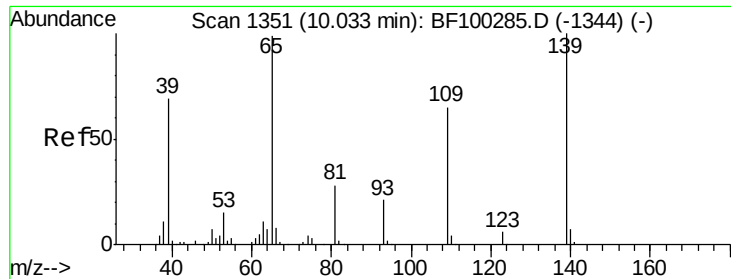
#50
 2,6-Dinitrotoluene
 Concen: 8.73 ng
 RT: 9.94 min Scan# 1335
 Delta R.T. 0.22 min
 Lab File: BF100439.D
 Acq: 11 Nov 2017 14:35

Tgt Ion:165 Resp: 22456
 Ion Ratio Lower Upper
 165 100
 63 0.0 44.7 67.1#
 89 1.9 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

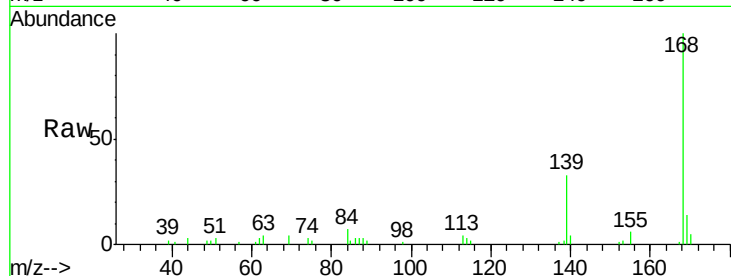




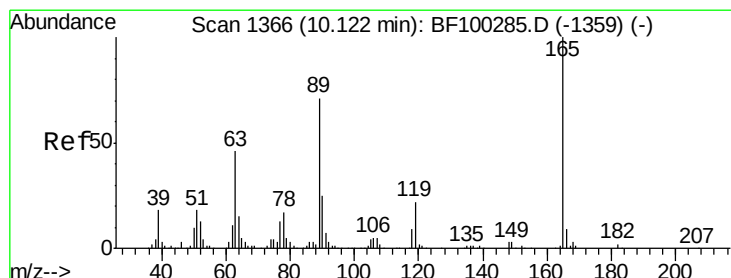
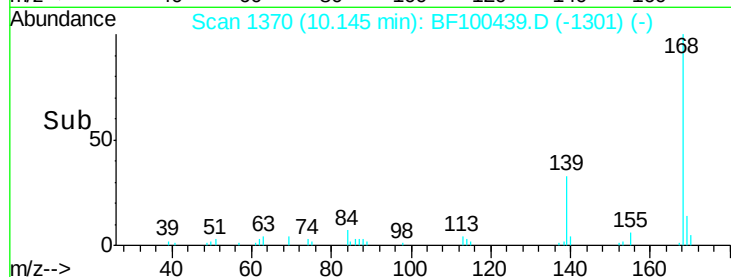
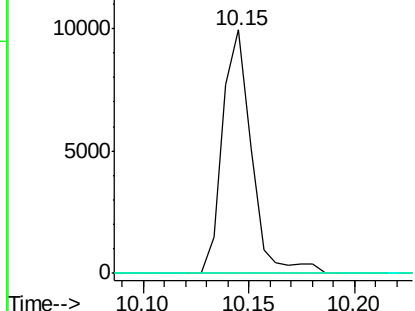
#55
4-Nitrophenol
Concen: 3.82 ng
RT: 10.15 min Scan# 1370
Delta R.T. 0.11 min
Lab File: BF100439.D
Acq: 11 Nov 2017 14:35

Instrument :
BNA_F
ClientSampled :
LS-SOIL

Tgt Ion:139 Resp: 9429
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 72.6 112.6#



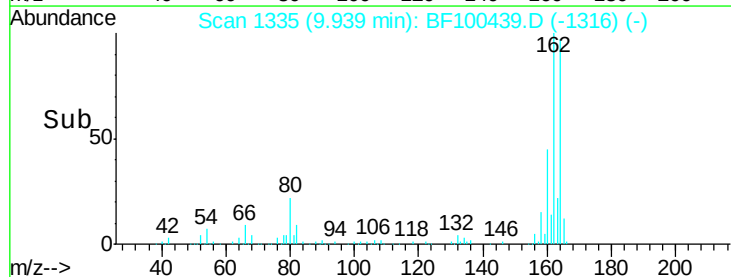
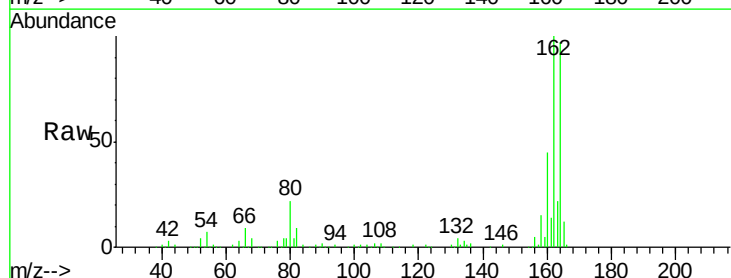
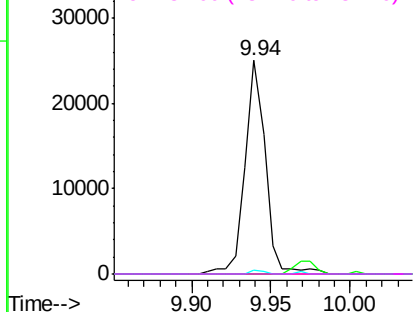
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

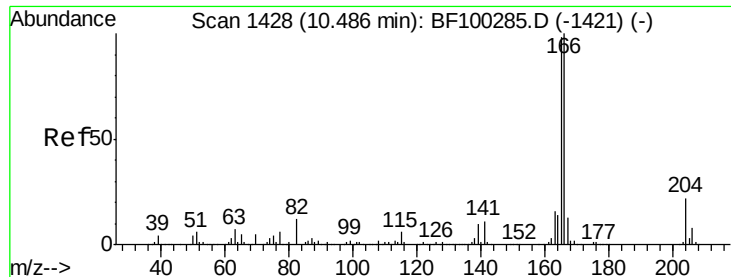


#56
2,4-Dinitrotoluene
Concen: 6.92 ng
RT: 9.94 min Scan# 1335
Delta R.T. -0.19 min
Lab File: BF100439.D
Acq: 11 Nov 2017 14:35

Tgt Ion:165 Resp: 22453
Ion Ratio Lower Upper
165 100
63 0.0 36.4 54.6#
89 1.9 57.8 86.6#
182 0.0 1.6 2.4#

Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

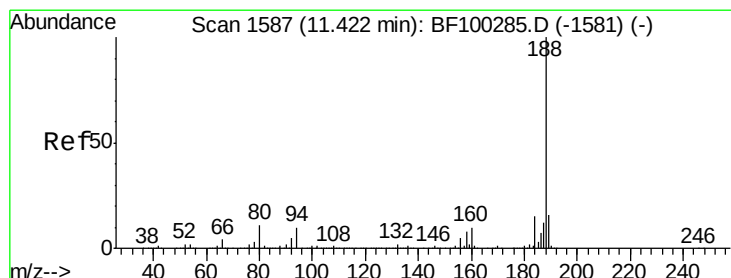
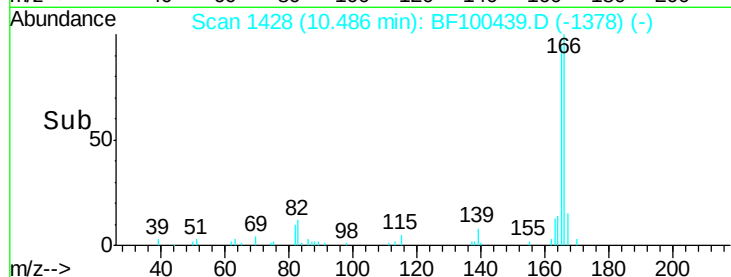
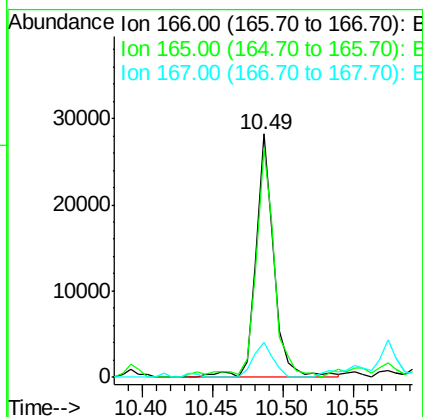
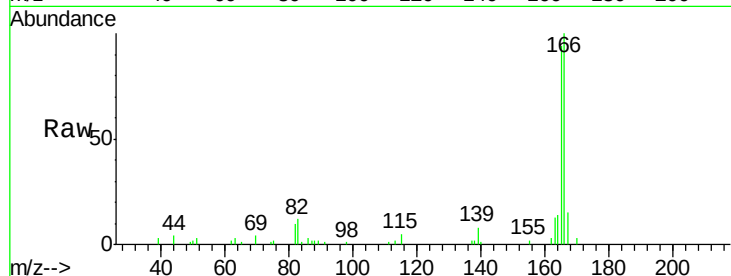




#57
 Fluorene
 Concen: 2.30 ng
 RT: 10.49 min Scan# 1428
 Delta R.T. -0.01 min
 Lab File: BF100439.D
 Acq: 11 Nov 2017 14:35

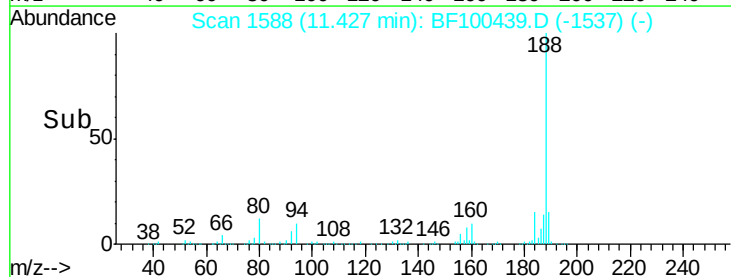
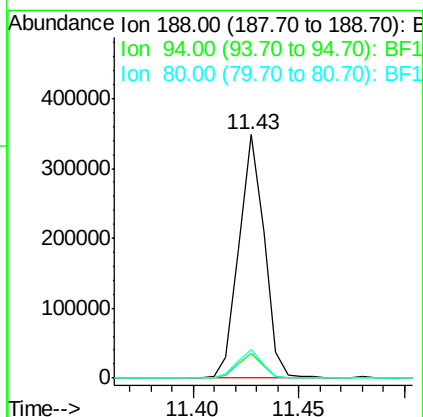
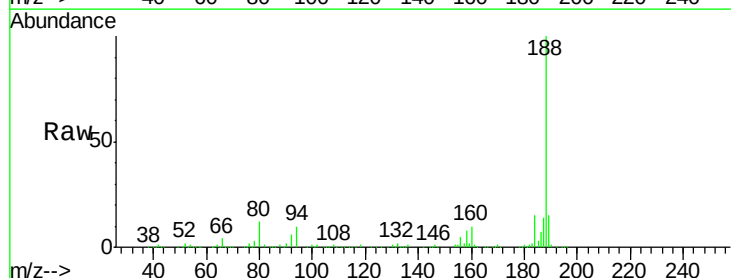
Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL

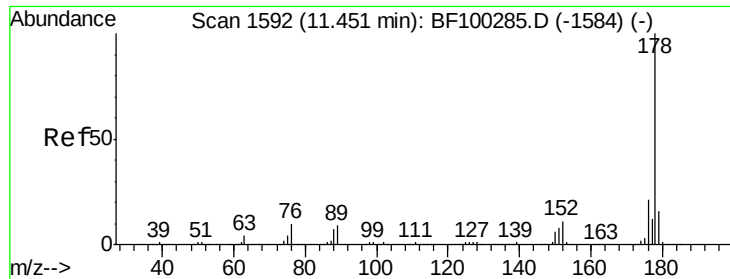
Tgt Ion:166 Resp: 25422
 Ion Ratio Lower Upper
 166 100
 165 94.1 79.8 119.8
 167 14.6 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: BF100439.D
 Acq: 11 Nov 2017 14:35

Tgt Ion:188 Resp: 289873
 Ion Ratio Lower Upper
 188 100
 94 10.2 8.5 12.7
 80 11.6 9.2 13.8

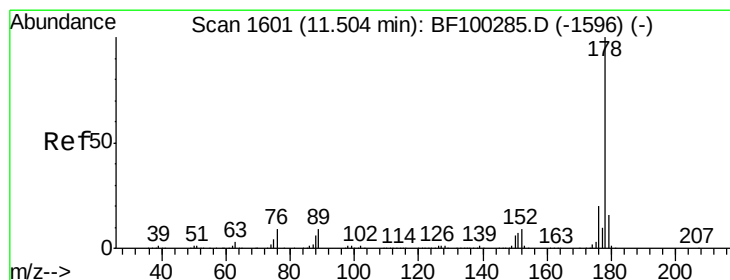
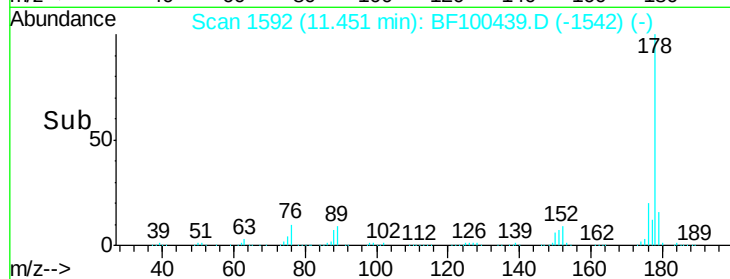
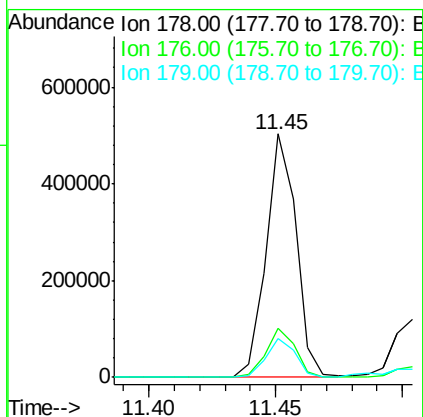
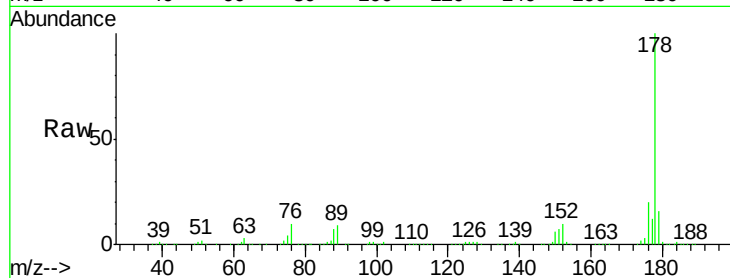




#70
Phenanthrene
Concen: 27.54 ng
RT: 11.45 min Scan# 1592
Delta R.T. -0.01 min
Lab File: BF100439.D
Acq: 11 Nov 2017 14:35

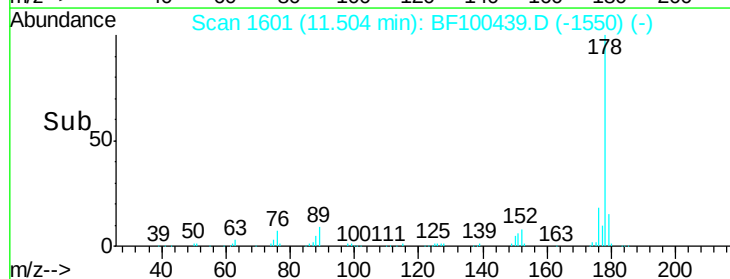
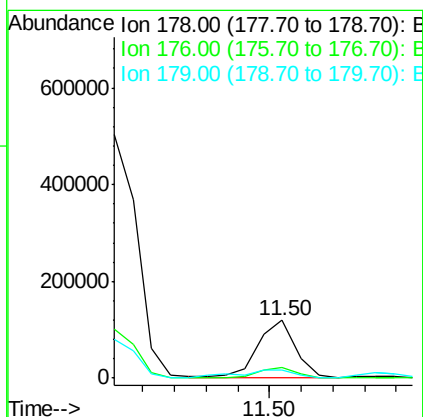
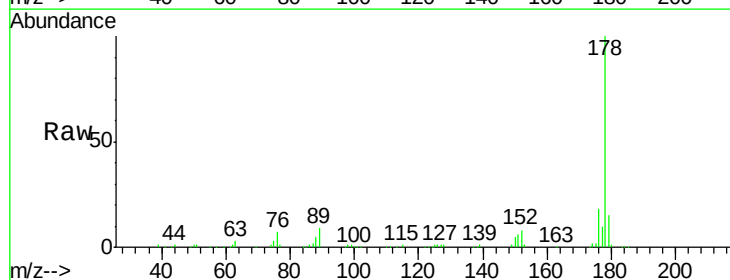
Instrument :
BNA_F
ClientSampleId :
LS-SOIL

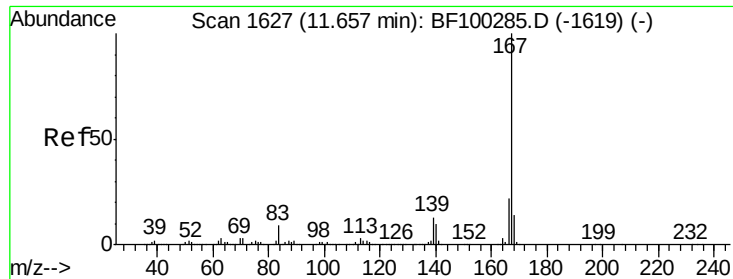
Tgt Ion:178 Resp: 420307
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 16.0 13.0 19.6



#71
Anthracene
Concen: 6.32 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: BF100439.D
Acq: 11 Nov 2017 14:35

Tgt Ion:178 Resp: 97843
Ion Ratio Lower Upper
178 100
176 18.2 15.4 23.2
179 14.9 12.6 19.0





#72

Carbazole

Concen: 3.84 ng

RT: 11.66 min Scan# 1627

Delta R.T. -0.00 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Instrument :

BNA_F

ClientSampleId :

LS-SOIL

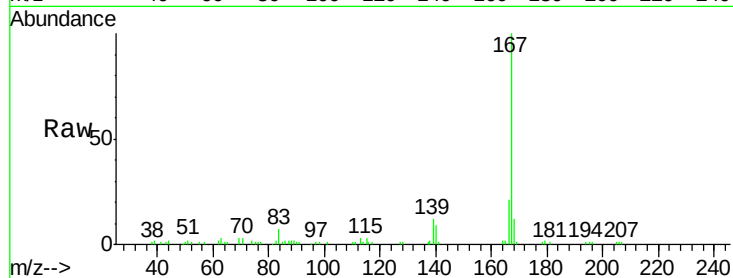
Tgt Ion:167 Resp: 54801

Ion Ratio Lower Upper

167 100

166 21.2 17.6 26.4

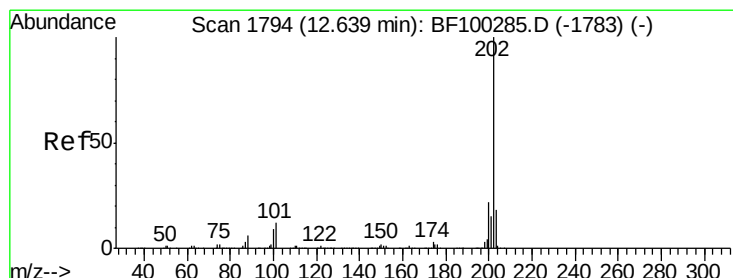
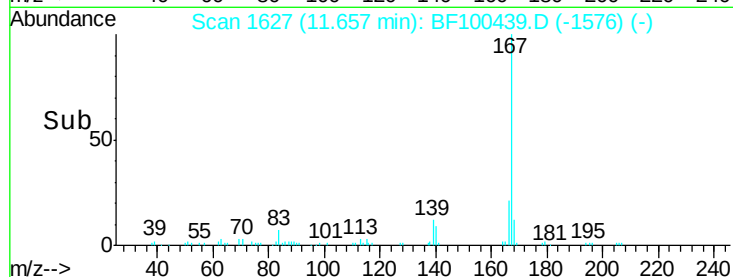
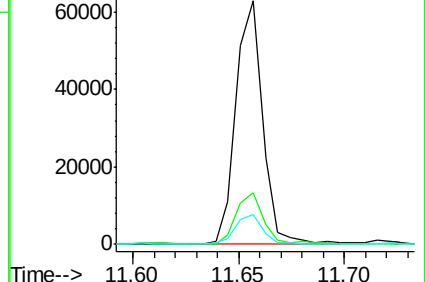
139 12.4 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 49.52 ng

RT: 12.65 min Scan# 1795

Delta R.T. 0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

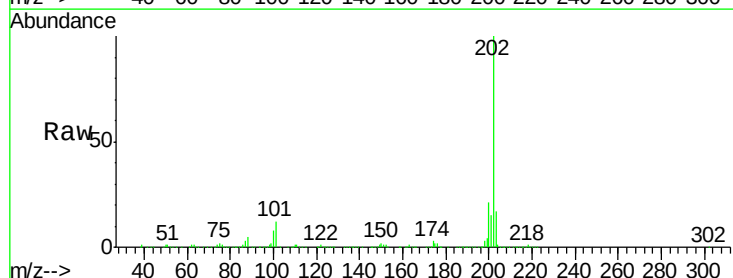
Tgt Ion:202 Resp: 800987

Ion Ratio Lower Upper

202 100

101 11.9 0.0 34.1

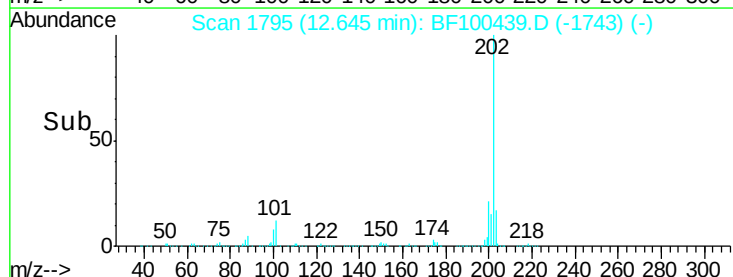
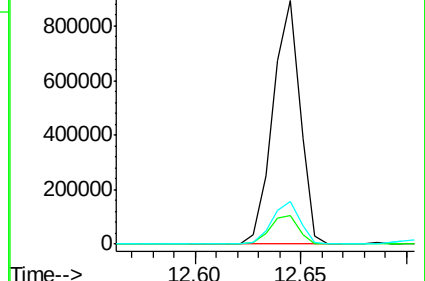
203 17.4 0.0 38.1

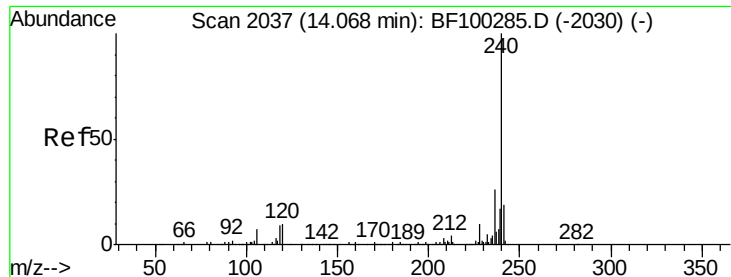


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

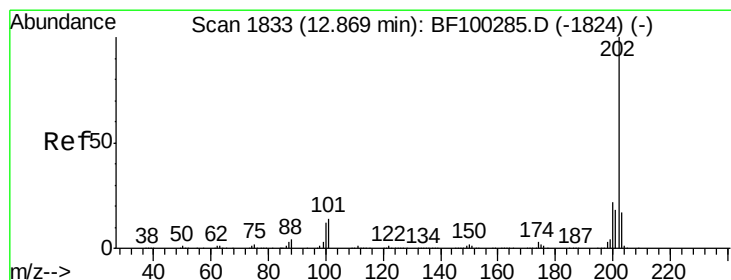
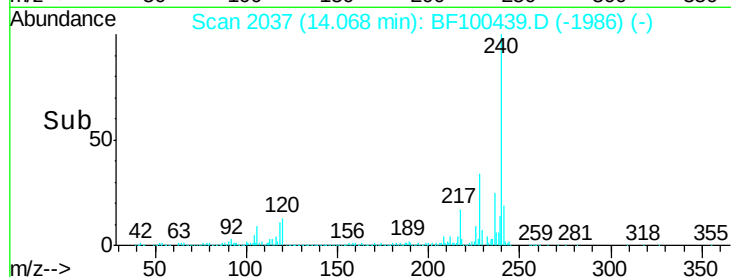
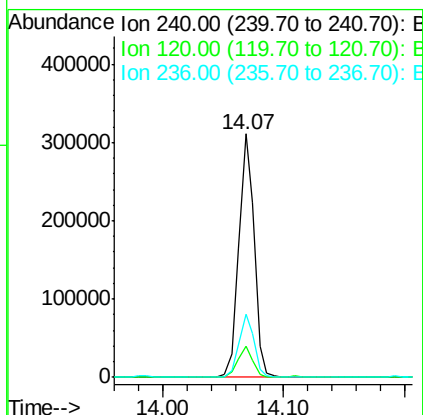
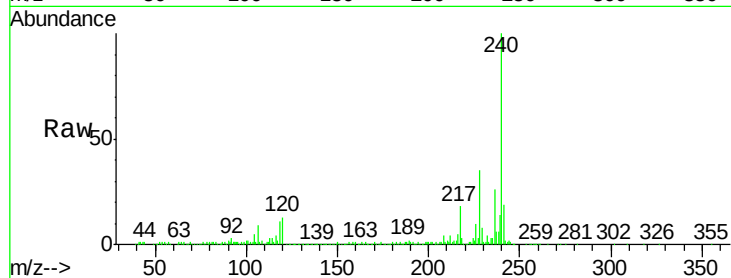




#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.07 min Scan# 2037
Delta R.T. -0.00 min
Lab File: BF100439.D
Acq: 11 Nov 2017 14:35

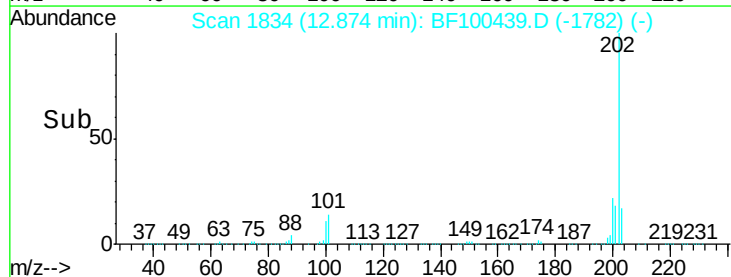
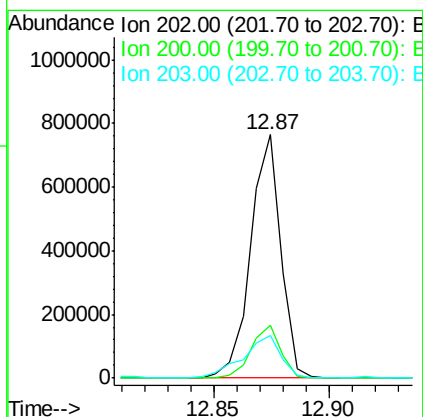
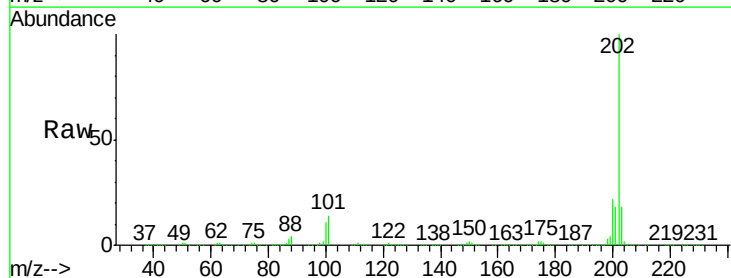
Instrument :
BNA_F
ClientSampleId :
LS-SOIL

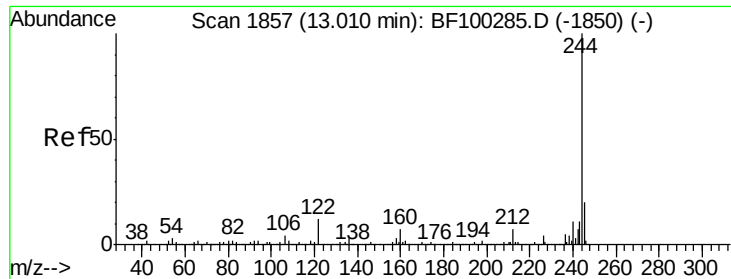
Tgt Ion:240 Resp: 278108
Ion Ratio Lower Upper
240 100
120 12.7 9.5 14.3
236 25.7 20.7 31.1



#77
Pyrene
Concen: 35.28 ng
RT: 12.87 min Scan# 1834
Delta R.T. 0.01 min
Lab File: BF100439.D
Acq: 11 Nov 2017 14:35

Tgt Ion:202 Resp: 699404
Ion Ratio Lower Upper
202 100
200 21.7 17.4 26.2
203 17.7 14.3 21.5





#78

Terphenyl-d14

Concen: 4.44 ng

RT: 13.01 min Scan# 1857

Delta R.T. -0.00 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Instrument :

BNA_F

ClientSampleId :

LS-SOIL

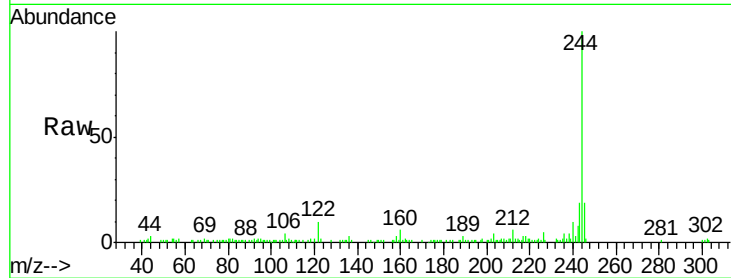
Tgt Ion:244 Resp: 53686

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

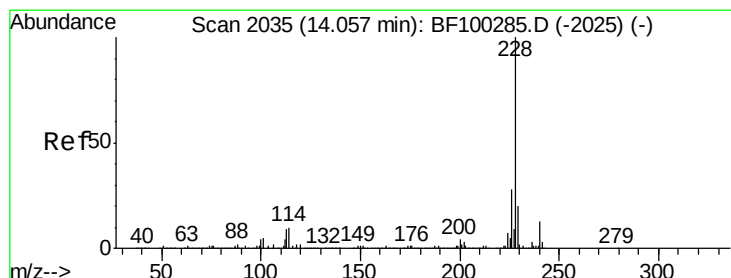
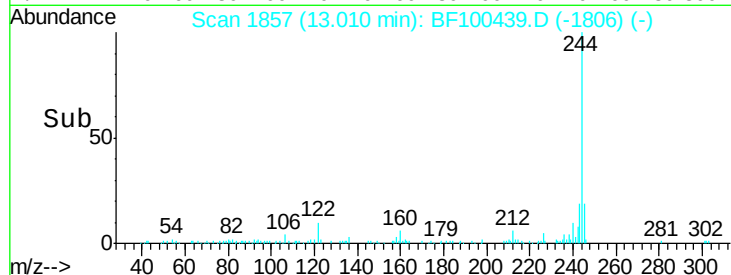
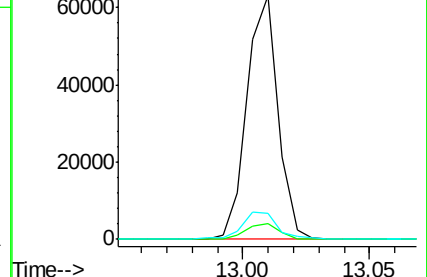
122 10.5 11.0 16.4#



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



#80

Benzo(a)anthracene

Concen: 24.11 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.00 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

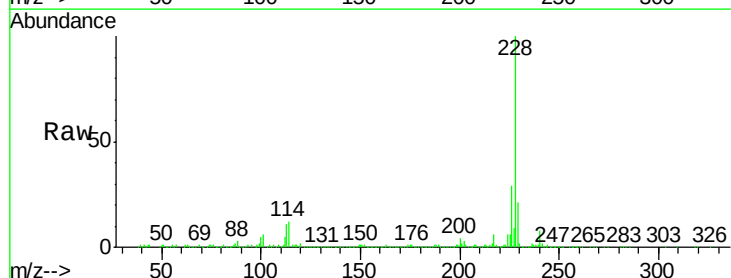
Tgt Ion:228 Resp: 403722

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

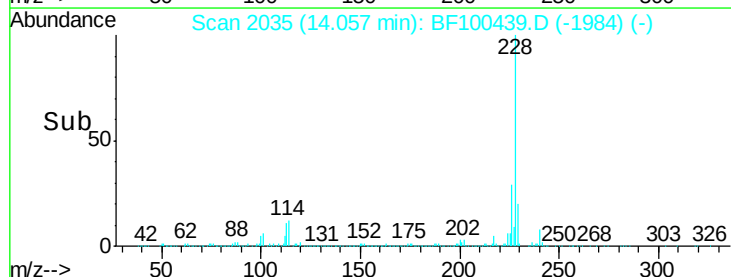
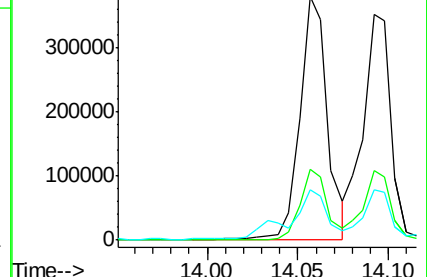
229 20.5 15.8 23.6

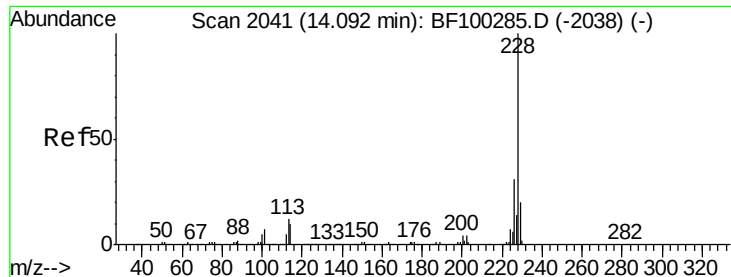


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 23.22 ng

RT: 14.09 min Scan# 2041

Delta R.T. -0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Instrument :

BNA_F

ClientSampled :

LS-SOIL

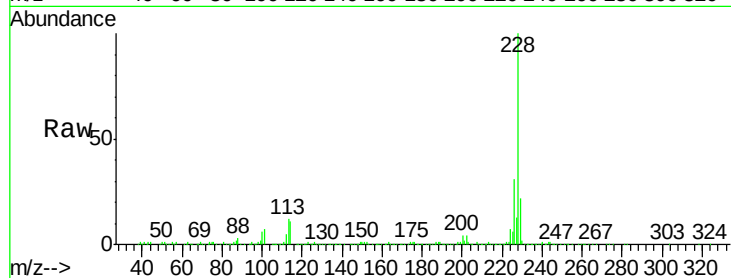
Tgt Ion:228 Resp: 376638

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

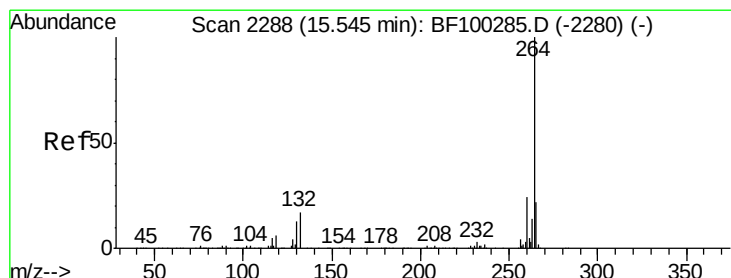
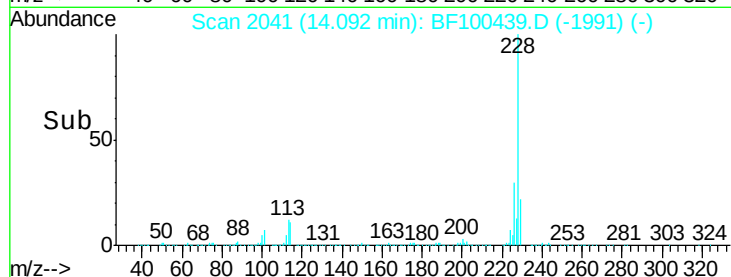
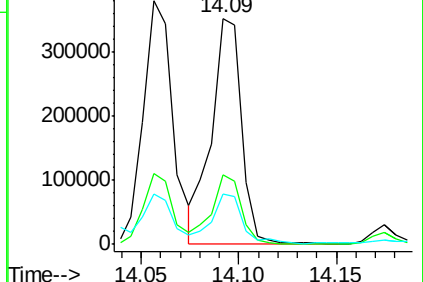
229 22.3 16.2 24.4



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.56 min Scan# 2290

Delta R.T. 0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

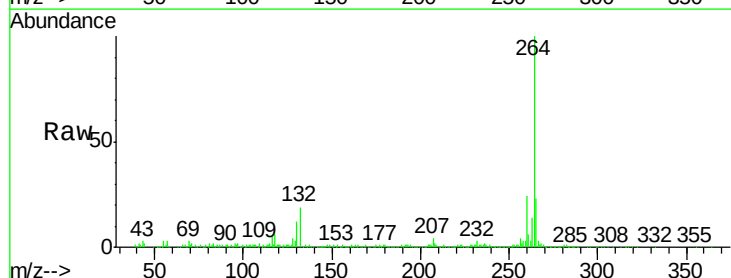
Tgt Ion:264 Resp: 206351

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

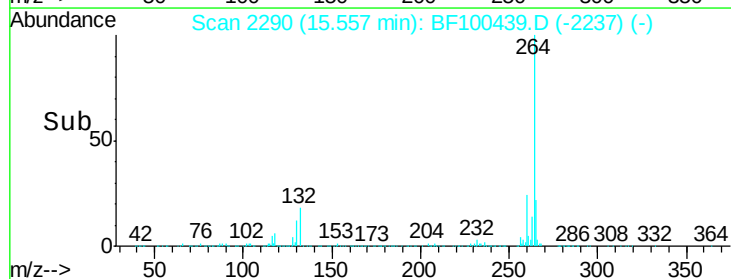
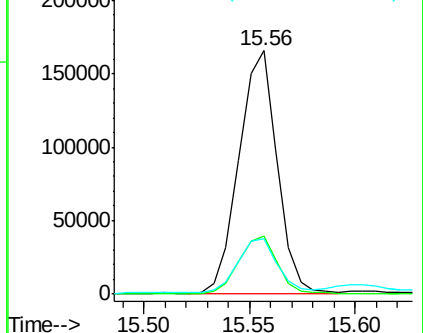
265 22.7 17.5 26.3

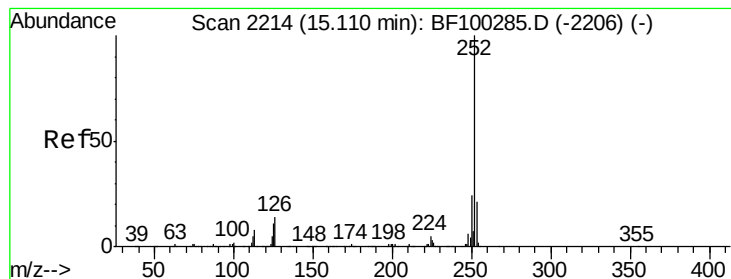


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 36.58 ng

RT: 15.12 min Scan# 2215

Delta R.T. 0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Instrument :

BNA_F

ClientSampleId :

LS-SOIL

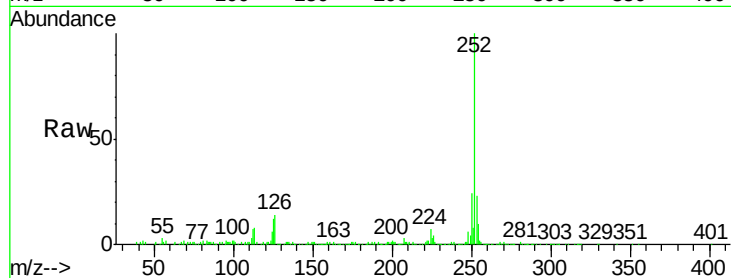
Tgt Ion:252 Resp: 447171

Ion Ratio Lower Upper

252 100

253 23.2 17.0 25.6

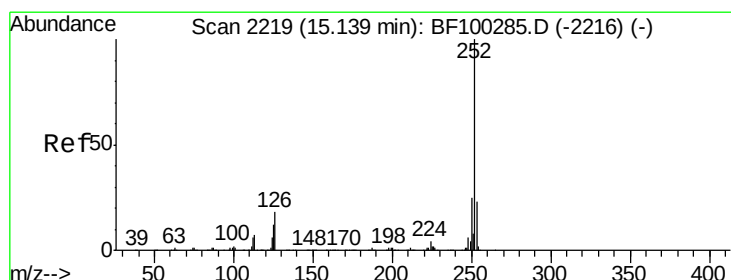
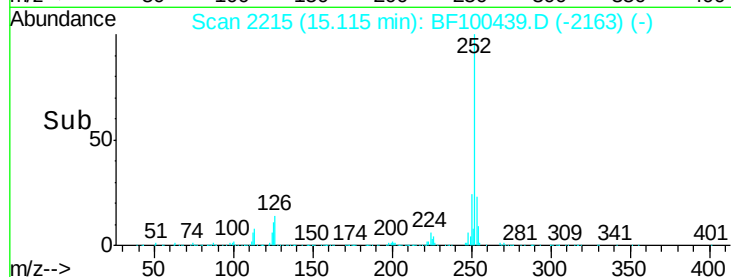
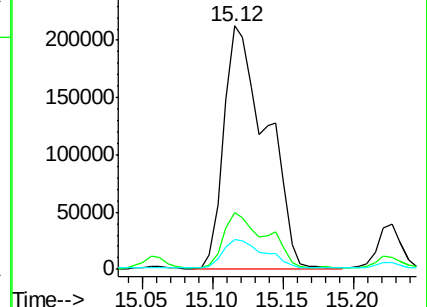
125 12.0 9.0 13.6



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



#88

Benzo(k)fluoranthene

Concen: 38.71 ng

RT: 15.12 min Scan# 2215

Delta R.T. -0.03 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

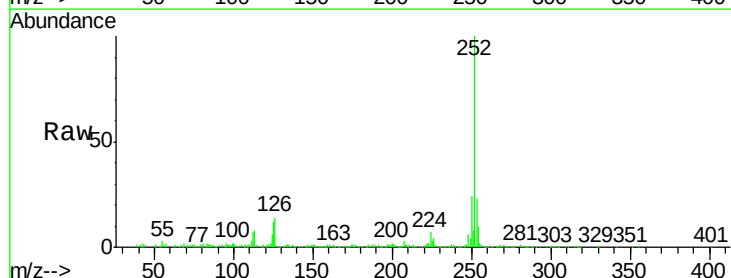
Tgt Ion:252 Resp: 447171

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

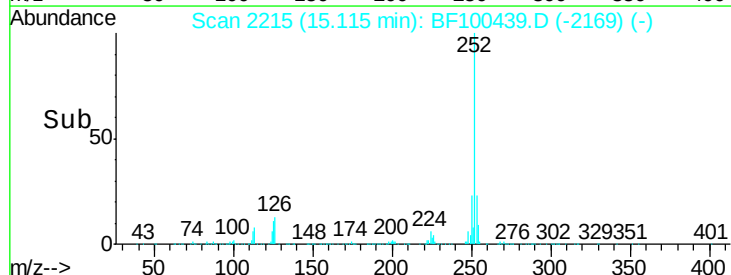
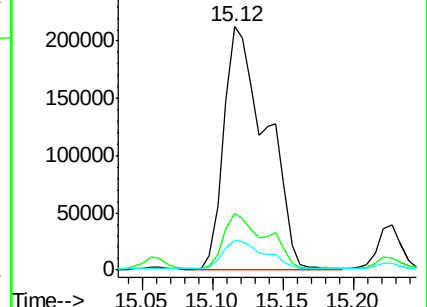
125 12.0 10.2 15.2

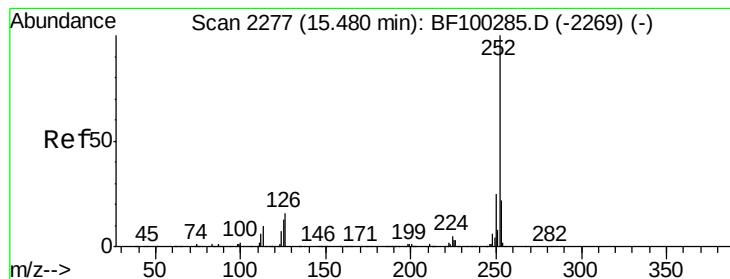


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 17.96 ng

RT: 15.49 min Scan# 2279

Delta R.T. 0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Instrument :

BNA_F

ClientSampleId :

LS-SOIL

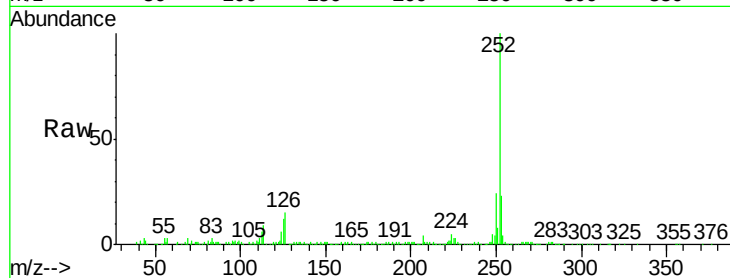
Tgt Ion:252 Resp: 194600

Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

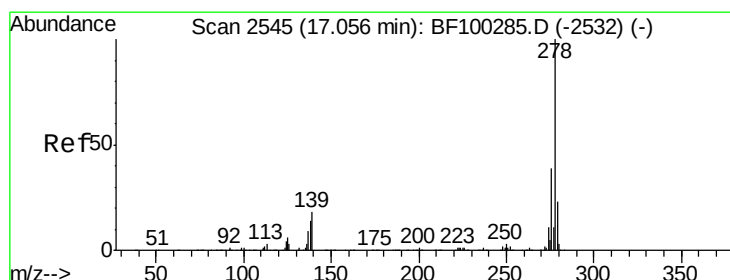
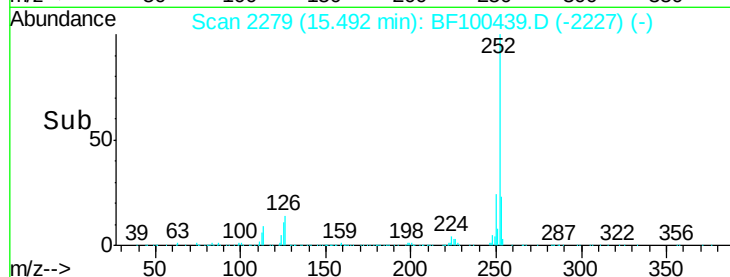
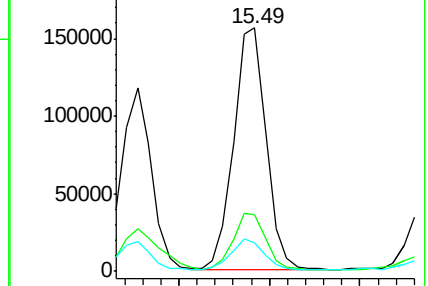
125 11.7 9.8 14.6



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



#90

Dibenzo(a,h)anthracene

Concen: 3.10 ng

RT: 17.06 min Scan# 2546

Delta R.T. -0.00 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

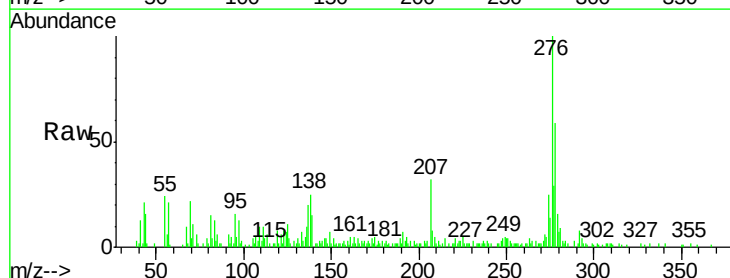
Tgt Ion:278 Resp: 27433

Ion Ratio Lower Upper

278 100

139 25.2 15.9 23.9#

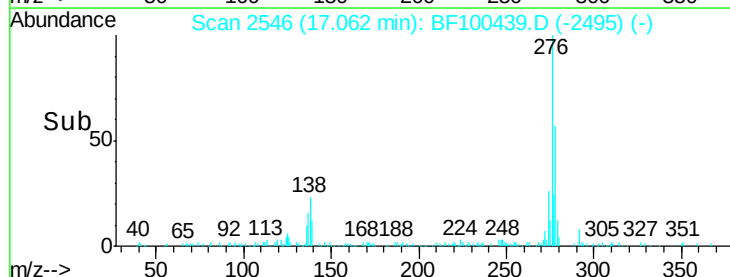
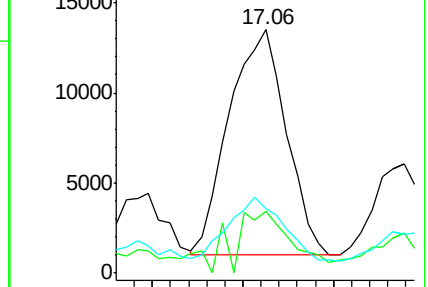
279 26.7 19.0 28.4

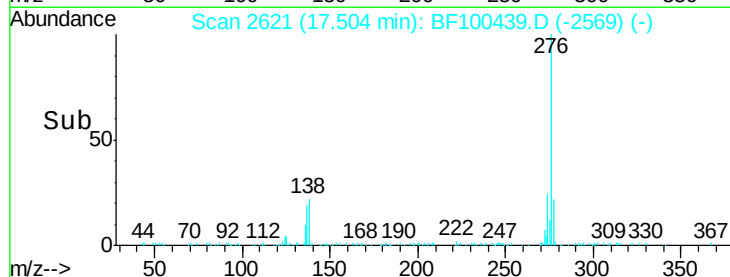
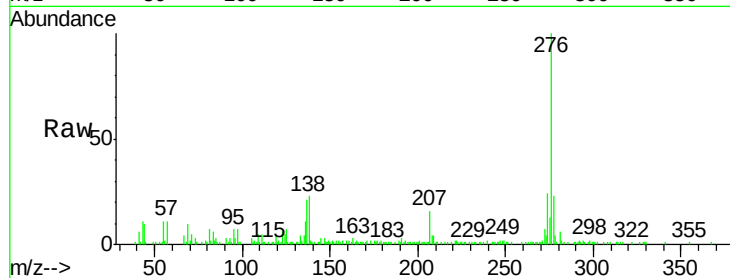
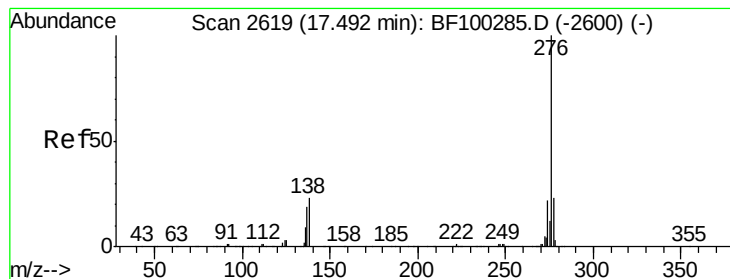


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 10.16 ng

RT: 17.50 min Scan# 2621

Delta R.T. 0.01 min

Lab File: BF100439.D

Acq: 11 Nov 2017 14:35

Instrument :

BNA_F

ClientSampleId :

LS-SOIL

Tgt Ion:276 Resp: 88180

Ion Ratio Lower Upper

276 100

277 23.2 17.9 26.9

138 23.0 21.8 32.8

