

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF031119\
 Data File : BF112968.D
 Acq On : 11 Mar 2019 21:28
 Operator : JU/SJ
 Sample : K1823-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 STOCK-PILE-1

Quant Time: Mar 12 04:42:09 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	153220	20.00	ng	-0.01
21) Naphthalene-d8	8.01	136	616784	20.00	ng	-0.01
39) Acenaphthene-d10	9.76	164	359993	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	747012	20.00	ng	0.00
76) Chrysene-d12	13.87	240	521732	20.00	ng	0.00
87) Perylene-d12	15.28	264	515363	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.33	112	781360	79.33	ng	-0.01
7) Phenol-d6	6.36	99	1082537	87.49	ng	0.00
23) Nitrobenzene-d5	7.29	82	644979	62.57	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	417520	109.25	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	1201674	49.50	ng	-0.01
79) Terphenyl-d14	12.82	244	1188922	44.17	ng	0.00

Target Compounds

						Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	86666	11.059	ng	# 76
25) Isophorone	7.29	82	638757	28.765	ng	# 66
50) Dimethylphthalate	9.48	163	113452	4.274	ng	98
52) Acenaphthene	9.79	154	103203	4.534	ng	100
54) 2,4-Dinitrophenol	10.05	184	1502	7.064	ng	# 75
55) Dibenzofuran	9.96	168	76102	2.300	ng	97
58) Fluorene	10.30	166	105526	4.494	ng	97
65) 4,6-Dinitro-2-methylphenol	10.37	198	1531	5.064	ng	# 1
67) 4-Bromophenyl-phenylether	10.54	248	23330	2.965	ng	# 1
71) Phenanthrene	11.26	178	714587	19.226	ng	99
72) Anthracene	11.32	178	128144	3.294	ng	99
75) Fluoranthene	12.45	202	919346	23.088	ng	96
78) Pyrene	12.67	202	734922	16.709	ng	99
81) Benzo(a)anthracene	13.86	228	225222	6.229	ng	97
83) Chrysene	13.89	228	237889	6.716	ng	96
84) Bis(2-ethylhexyl)phthalate	13.86	149	125783	5.524	ng	95
88) Benzo(b)fluoranthene	14.88	252	358160	10.744	ng	# 93
89) Benzo(k)fluoranthene	14.88	252	358160	11.862	ng	# 93
90) Benzo(a)pyrene	15.22	252	151201	5.128	ng	# 92
92) Benzo(g,h,i)perylene	17.06	276	90427	3.579	ng	96

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

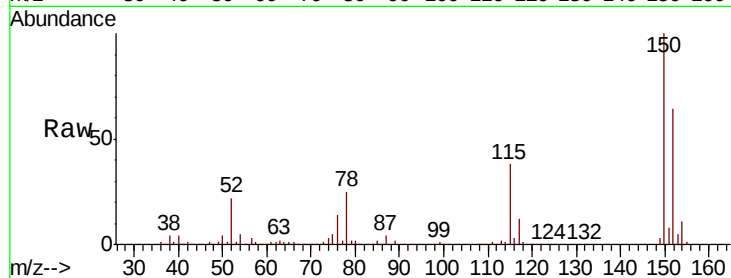


#1

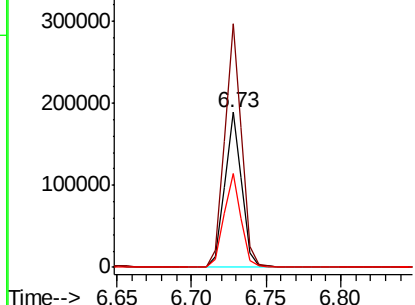
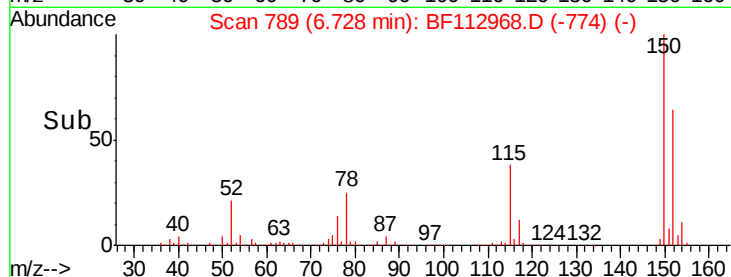
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF112968.D
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BNA_F
ClientSampleId :
STOCK-PILE-1

Tgt Ion:152 Resp: 153220
Ion Ratio Lower Upper
152 100
150 156.9 124.2 186.2
115 60.1 48.2 72.4



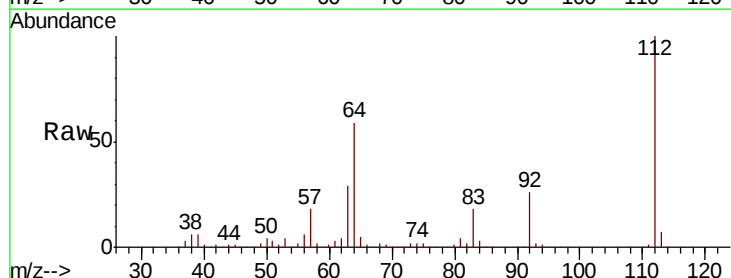
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



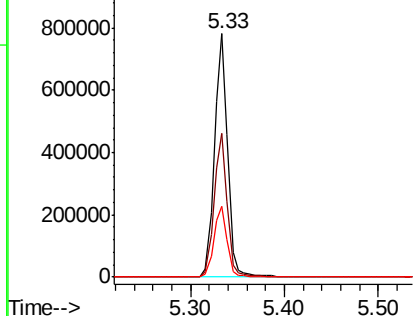
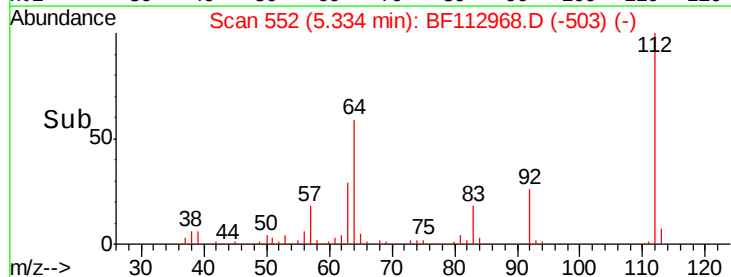
#5

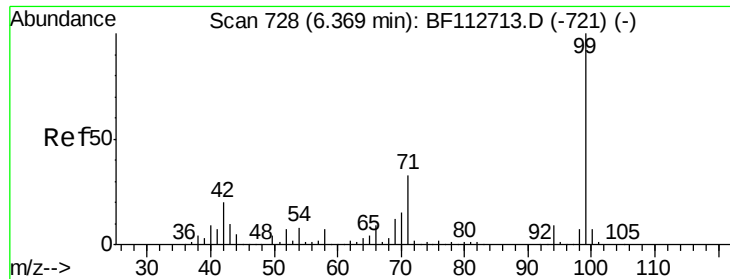
2-Fluorophenol
Concen: 79.326 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.01 min
Lab File: BF112968.D
Acq: 11 Mar 2019 21:28

Tgt Ion:112 Resp: 781360
Ion Ratio Lower Upper
112 100
64 58.9 47.6 71.4
63 29.3 24.4 36.6



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: 87.491 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

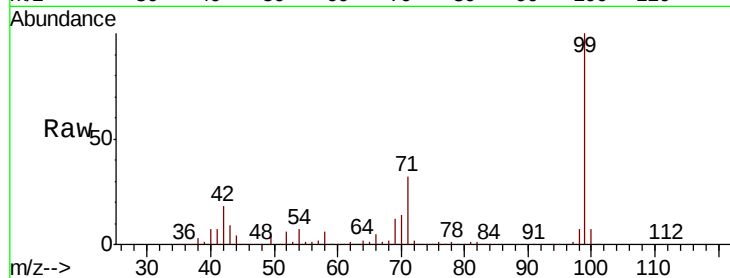
Tgt Ion: 99 Resp: 1082537

Ion Ratio Lower Upper

99 100

42 18.1 16.3 24.5

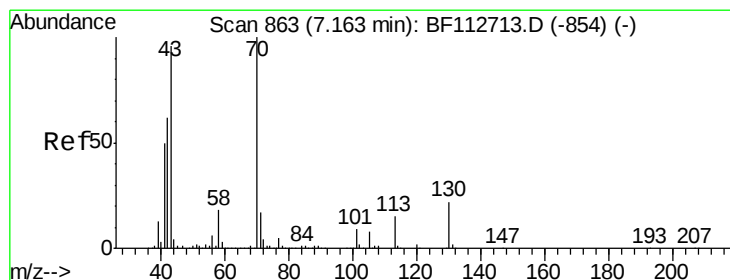
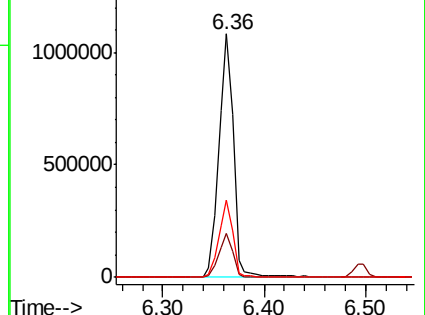
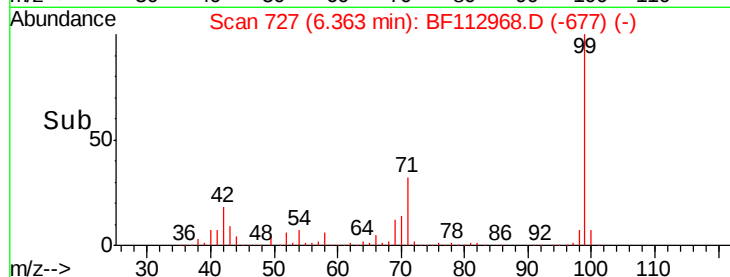
71 31.5 26.2 39.4



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



#19

n-Nitroso-di-n-propylamine

Concen: 11.059 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.12 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Tgt Ion: 70 Resp: 86666

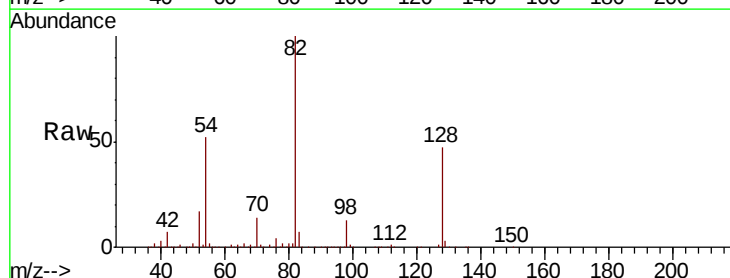
Ion Ratio Lower Upper

70 100

42 48.4 49.9 74.9#

101 0.0 7.4 11.2#

130 2.3 17.4 26.2#

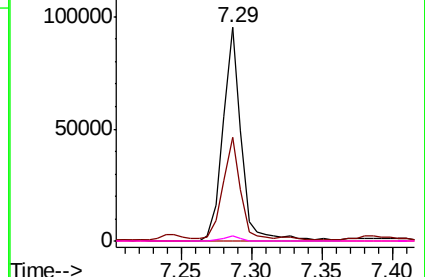
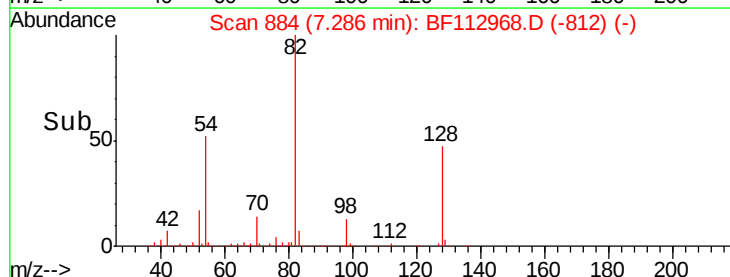


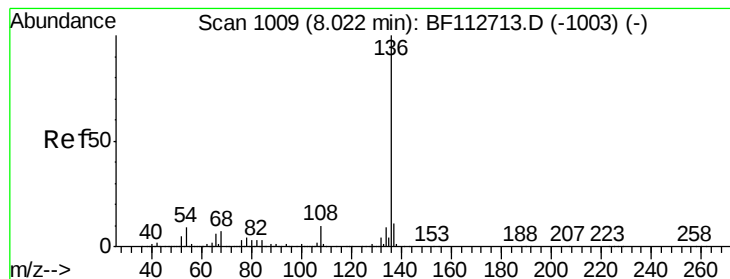
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

Tgt Ion: 136 Resp: 616784

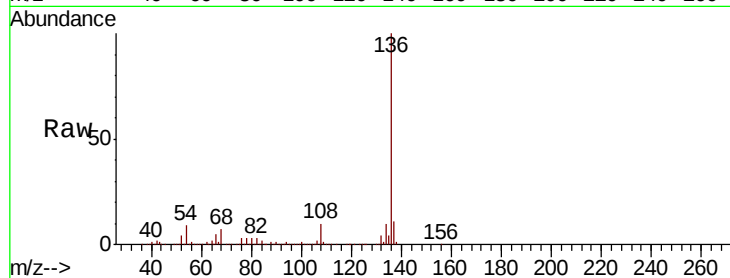
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 8.6 7.3 10.9

68 6.6 5.4 8.2

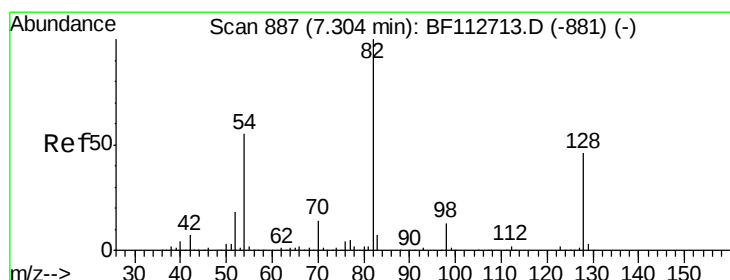
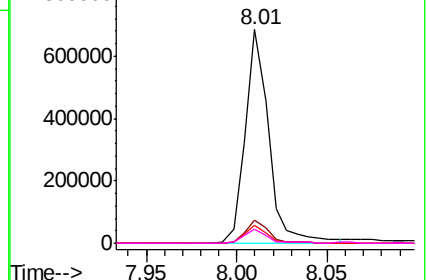
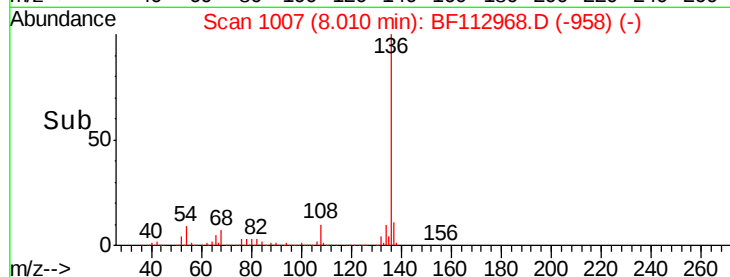


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 62.573 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.02 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

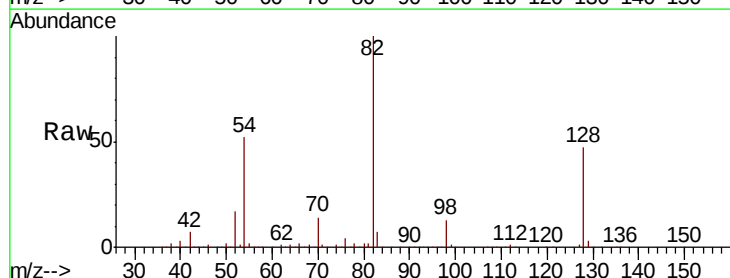
Tgt Ion: 82 Resp: 644979

Ion Ratio Lower Upper

82 100

128 47.1 36.3 54.5

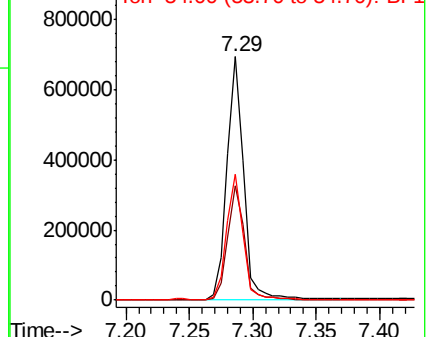
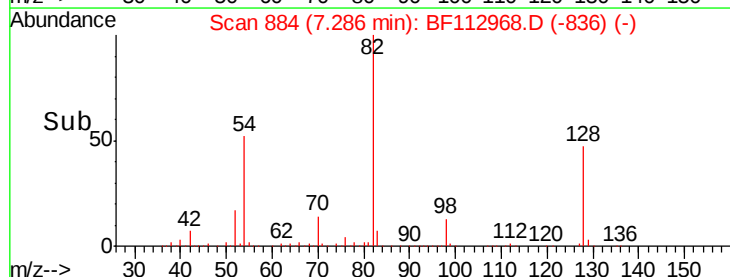
54 51.9 43.7 65.5

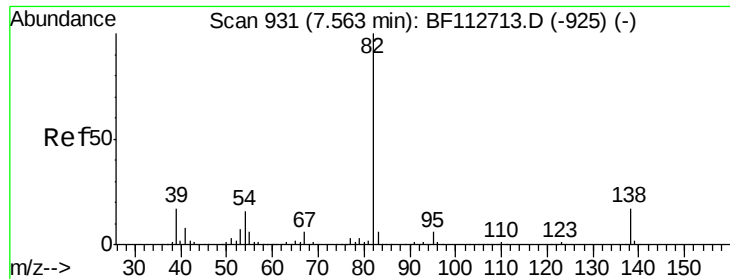


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 28.765 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.28 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

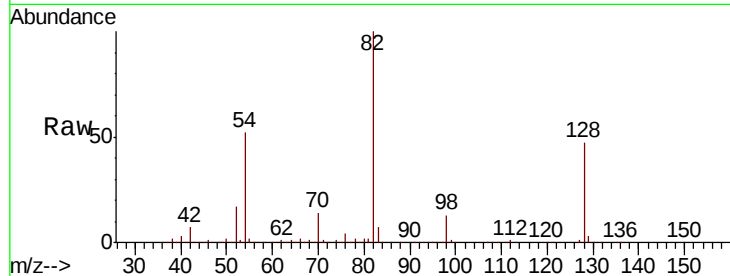
Tgt Ion: 82 Resp: 638757

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

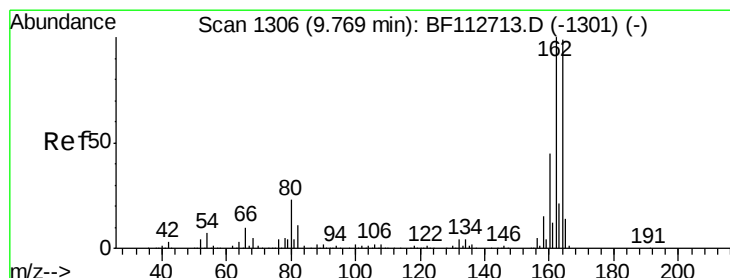
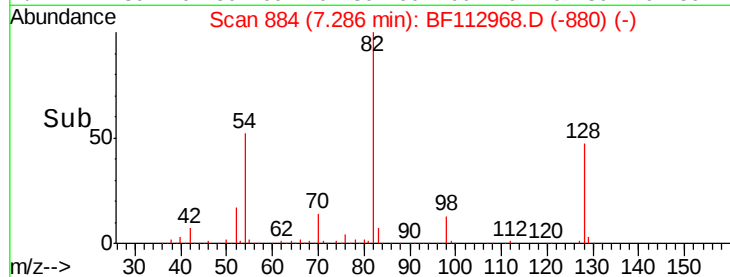
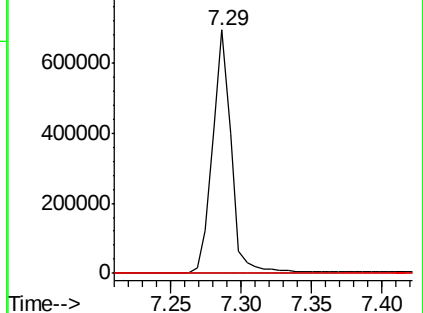
138 0.0 13.8 20.8#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

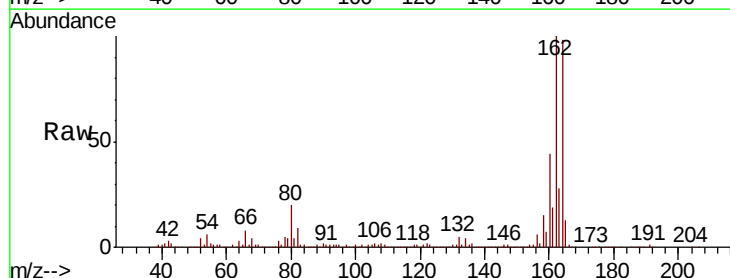
Tgt Ion: 164 Resp: 359993

Ion Ratio Lower Upper

164 100

162 101.8 80.6 120.8

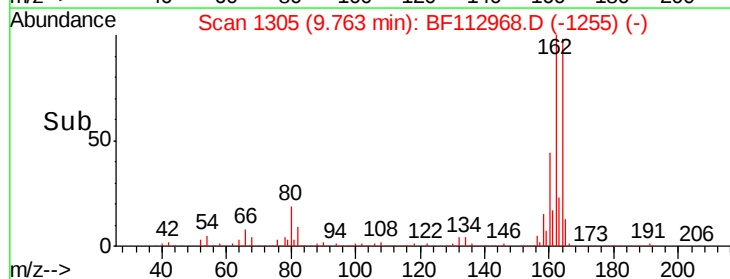
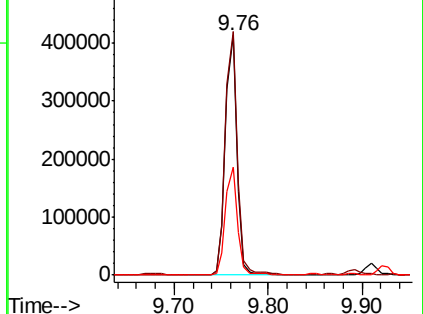
160 45.2 36.0 54.0



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





#42

2,4,6-Tribromophenol

Concen: 109.248 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

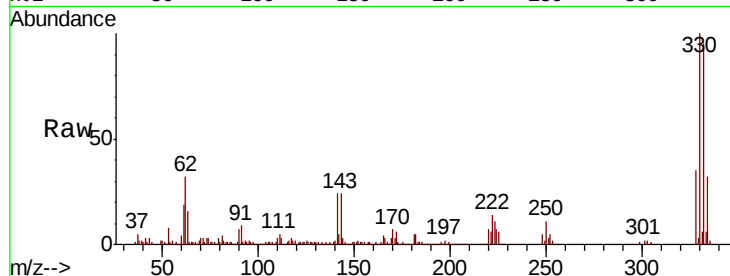
Tgt Ion:330 Resp: 417520

Ion Ratio Lower Upper

330 100

332 95.7 76.2 114.4

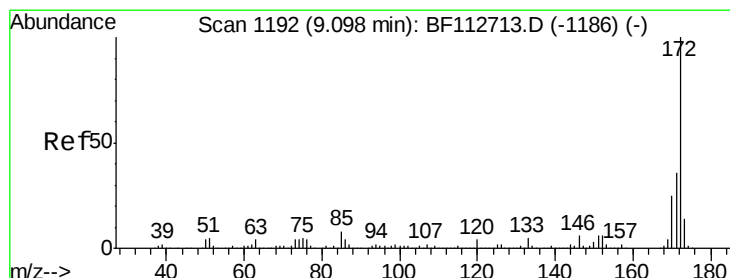
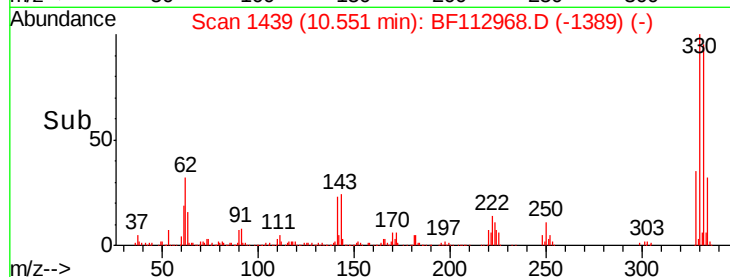
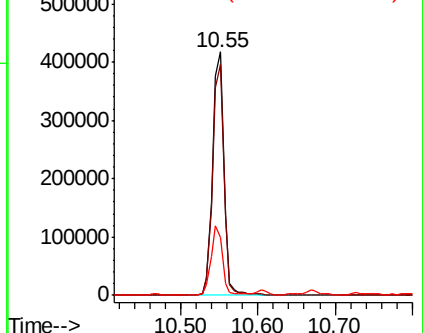
141 27.9 27.0 40.6



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



#45

2-Fluorobiphenyl

Concen: 49.496 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

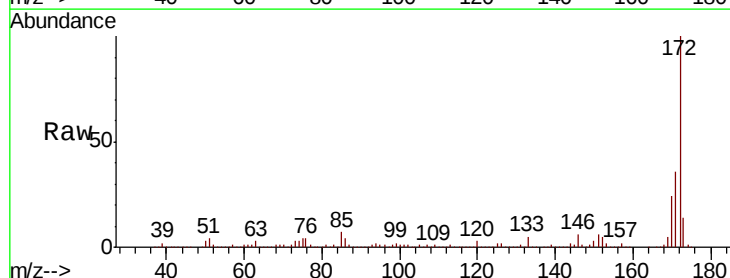
Tgt Ion:172 Resp: 1201674

Ion Ratio Lower Upper

172 100

171 36.1 29.0 43.4

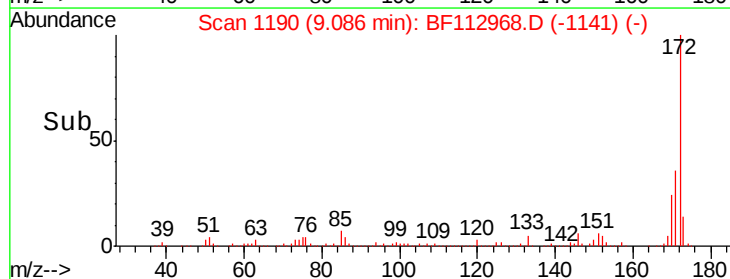
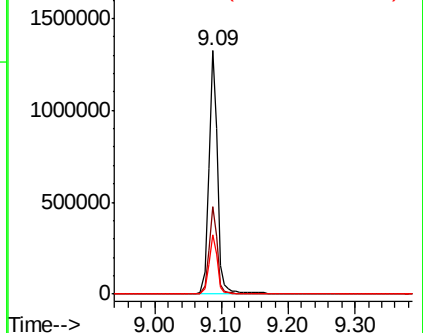
170 24.3 20.0 30.0

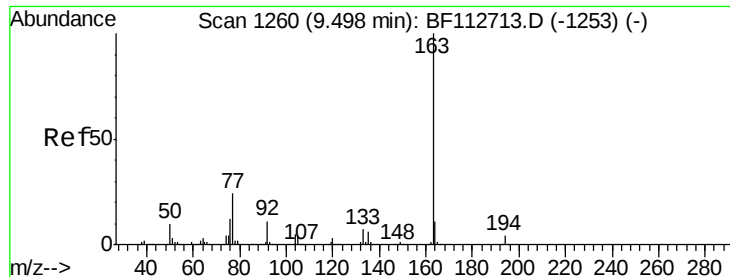


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 4.274 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.02 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

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STOCK-PILE-1

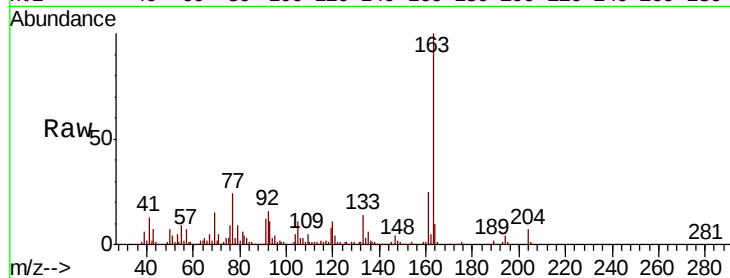
Tgt Ion:163 Resp: 113452

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.4

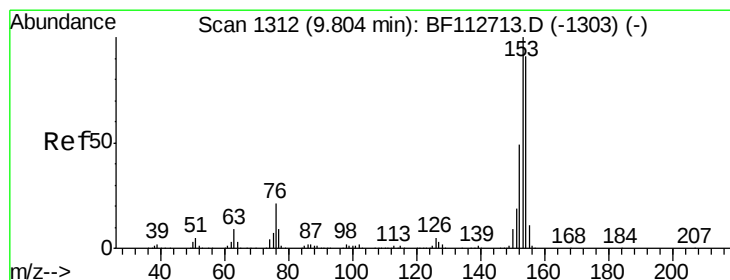
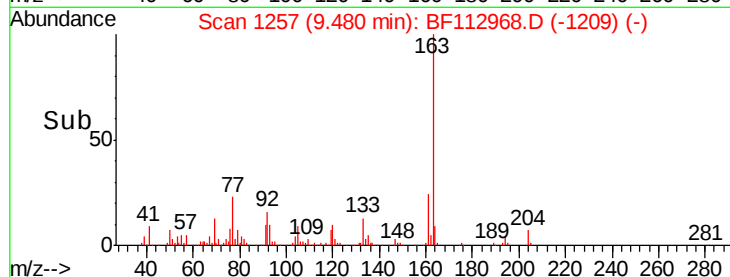
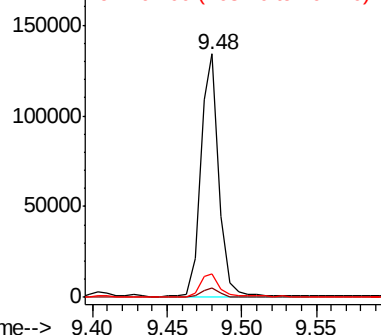
164 9.6 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52

Acenaphthene

Concen: 4.534 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

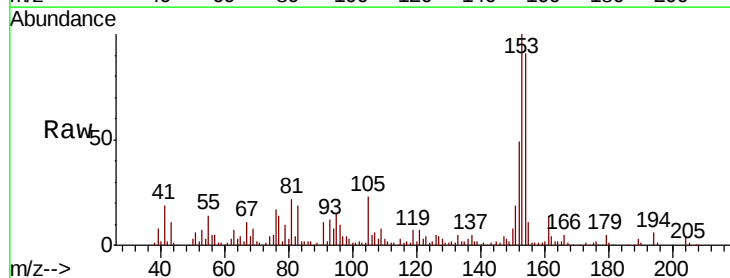
Tgt Ion:154 Resp: 103203

Ion Ratio Lower Upper

154 100

153 110.2 87.8 131.8

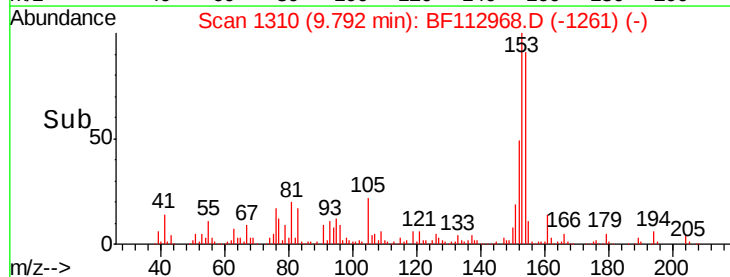
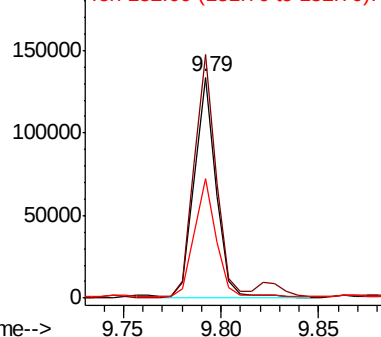
152 53.9 43.0 64.6

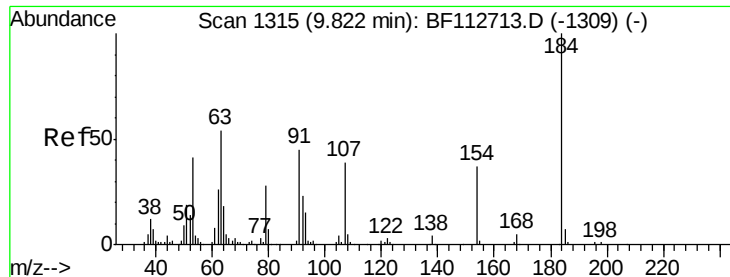


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

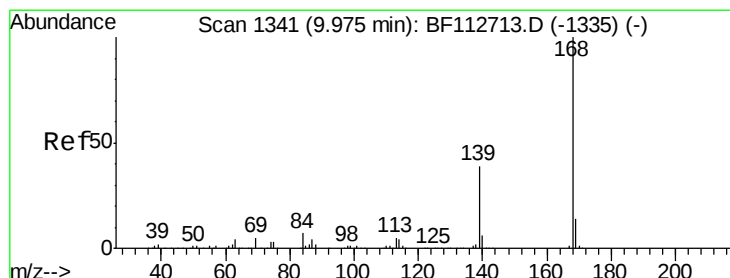
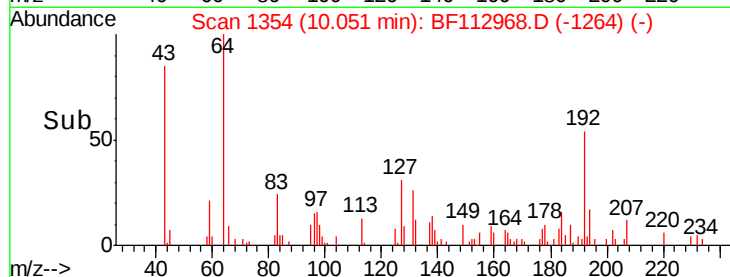
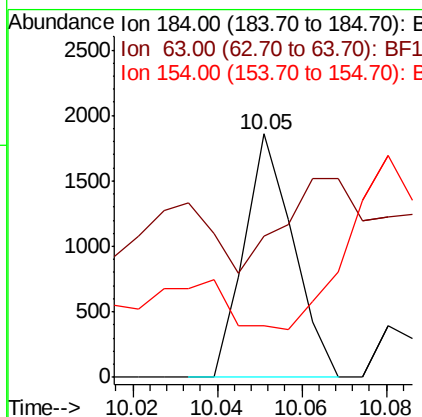
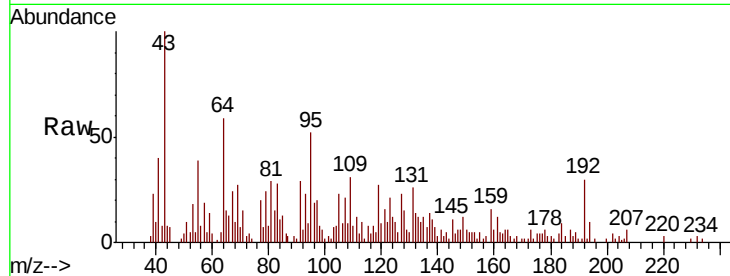




#54
 2,4-Dinitrophenol
 Concen: 7.064 ng
 RT: 10.05 min Scan# 1354
 Delta R.T. 0.23 min
 Lab File: BF112968.D
 Acq: 11 Mar 2019 21:28

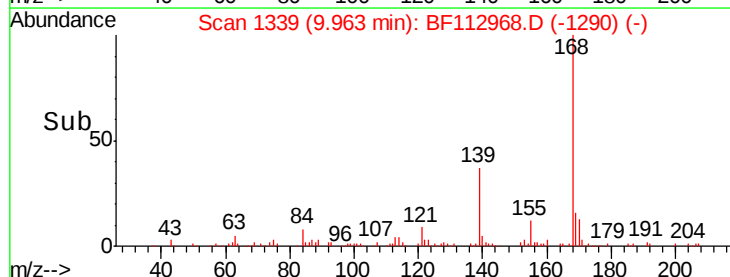
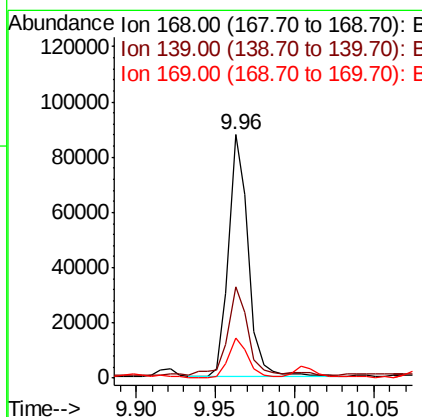
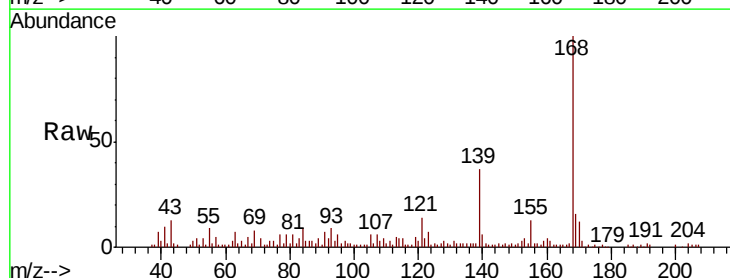
Instrument :
 BNA_F
 ClientSampleId :
 STOCK-PILE-1

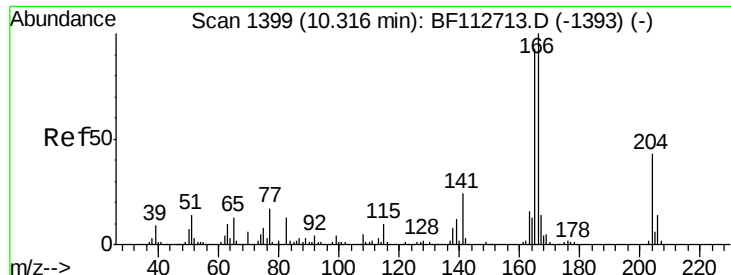
Tgt Ion:184 Resp: 1502
 Ion Ratio Lower Upper
 184 100
 63 57.8 45.3 67.9
 154 21.4 46.0 69.0#



#55
 Dibenzofuran
 Concen: 2.300 ng
 RT: 9.96 min Scan# 1339
 Delta R.T. -0.01 min
 Lab File: BF112968.D
 Acq: 11 Mar 2019 21:28

Tgt Ion:168 Resp: 76102
 Ion Ratio Lower Upper
 168 100
 139 37.4 31.3 46.9
 169 16.3 11.3 16.9





#58

Fluorene

Concen: 4.494 ng

RT: 10.30 min Scan# 1397

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

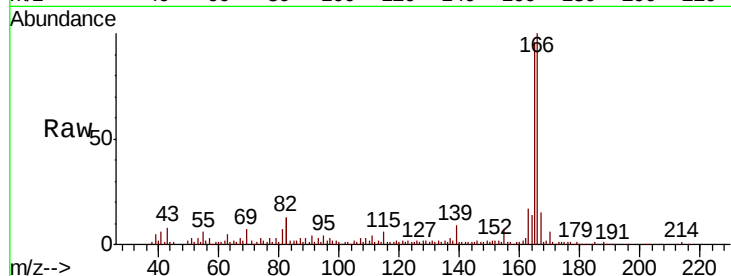
Tgt Ion:166 Resp: 105526

Ion Ratio Lower Upper

166 100

165 96.3 74.7 112.1

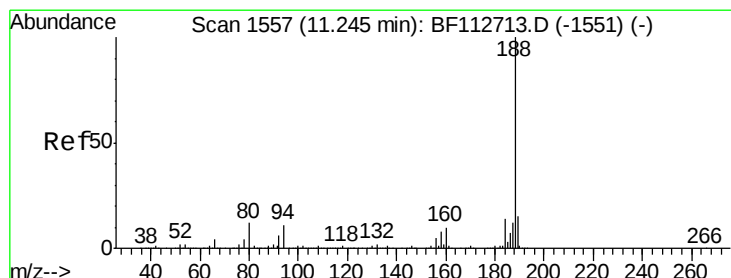
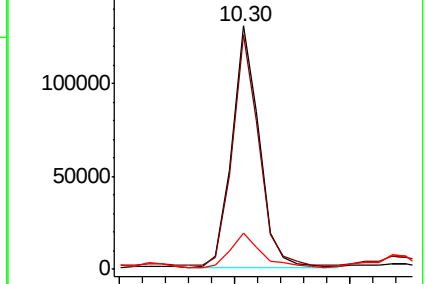
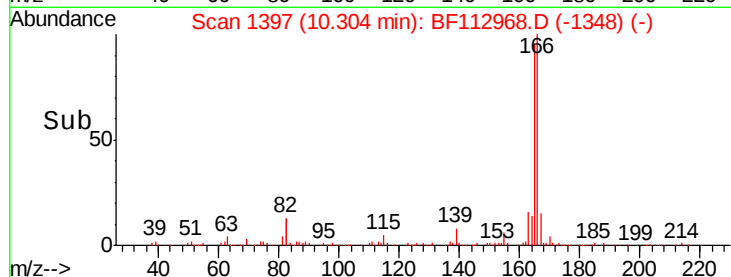
167 15.1 11.0 16.6



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

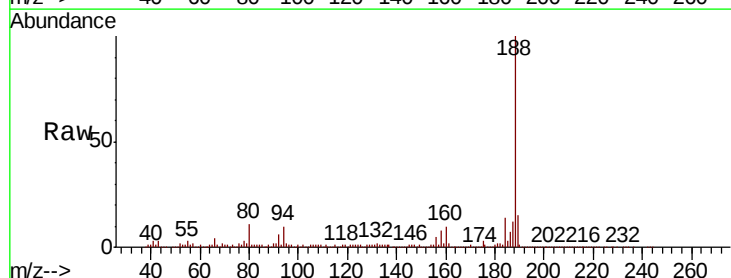
Tgt Ion:188 Resp: 747012

Ion Ratio Lower Upper

188 100

94 10.3 9.0 13.4

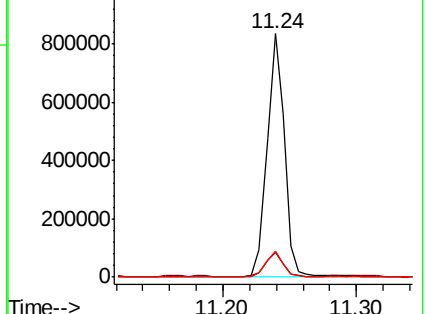
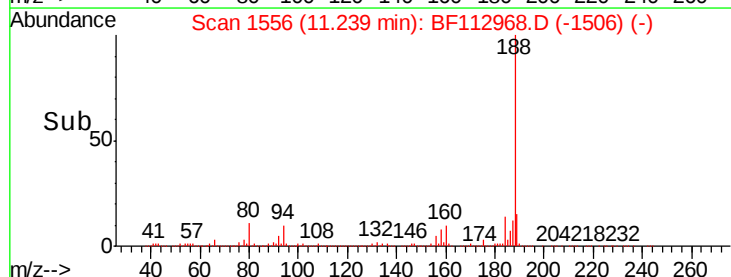
80 10.9 9.2 13.8

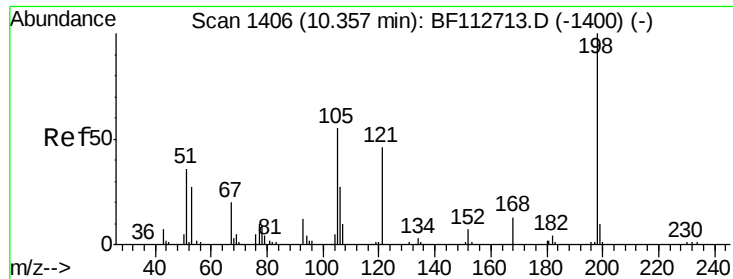


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 5.064 ng

RT: 10.37 min Scan# 1408

Delta R.T. 0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

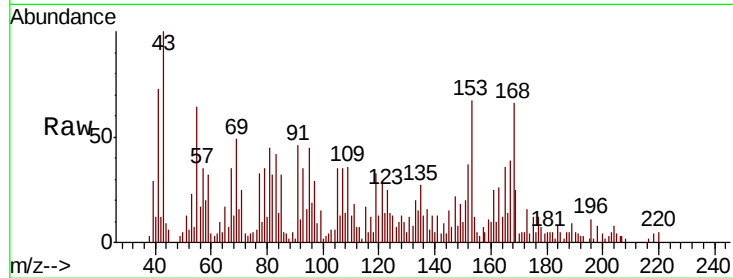
Tgt Ion:198 Resp: 1531

Ion Ratio Lower Upper

198 100

51 161.5 43.8 83.8#

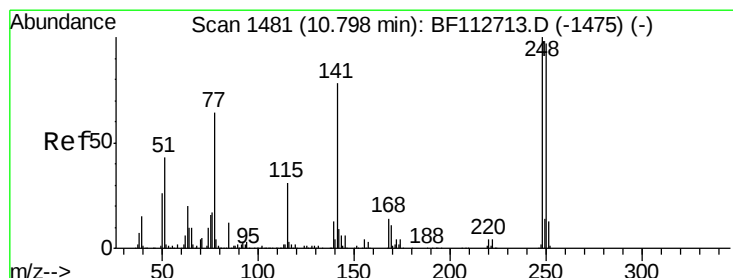
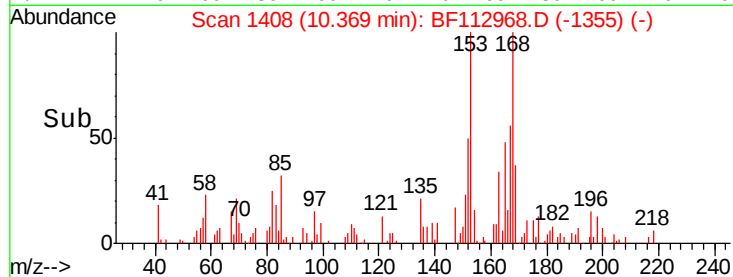
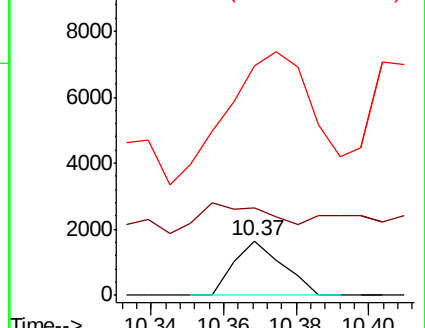
105 421.3 36.5 76.5#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 2.965 ng

RT: 10.54 min Scan# 1438

Delta R.T. -0.25 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

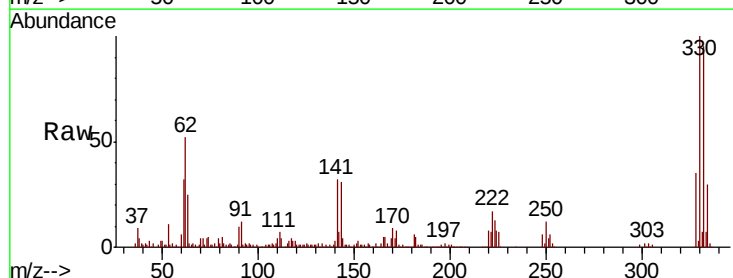
Tgt Ion:248 Resp: 23330

Ion Ratio Lower Upper

248 100

250 196.8 77.5 116.3#

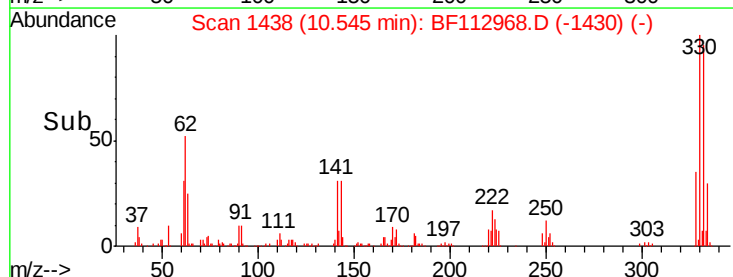
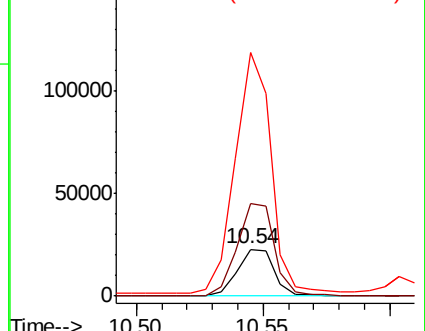
141 516.7 62.4 93.6#

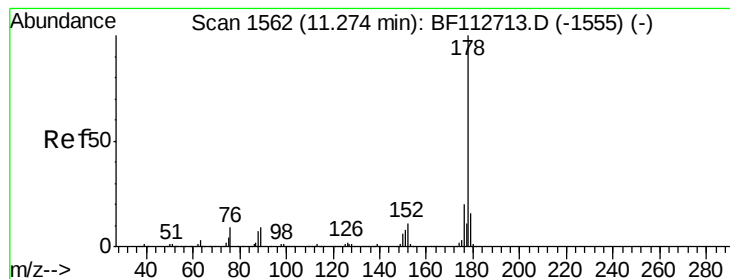


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 19.226 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

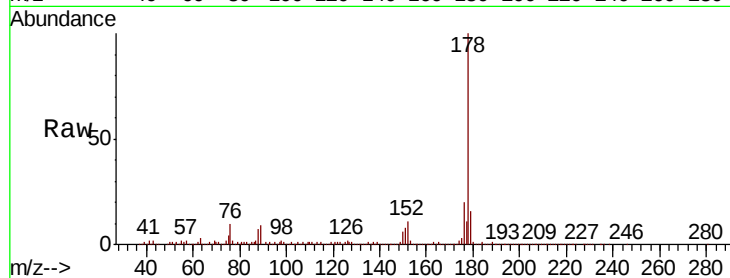
Tgt Ion:178 Resp: 714587

Ion Ratio Lower Upper

178 100

176 19.8 16.3 24.5

179 16.1 12.7 19.1

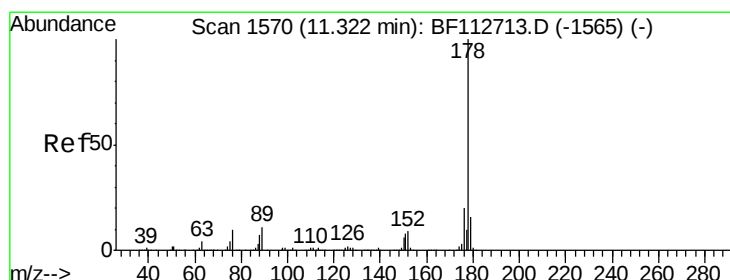
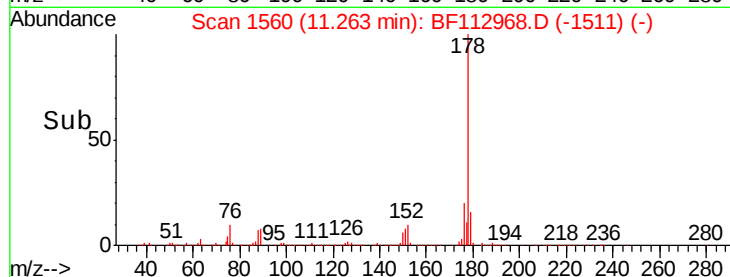
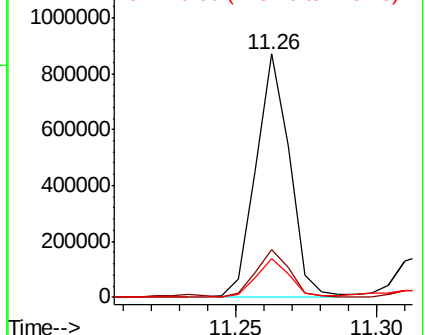


Abundance

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



#72

Anthracene

Concen: 3.294 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

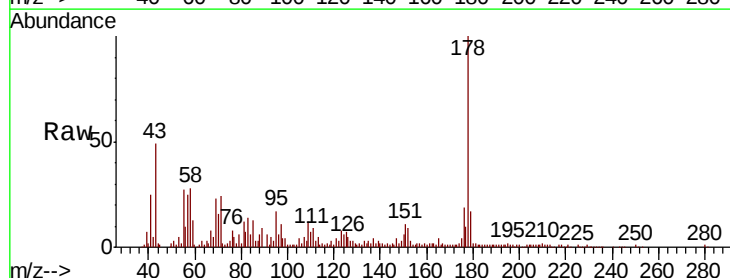
Tgt Ion:178 Resp: 128144

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.6

179 16.6 13.0 19.6

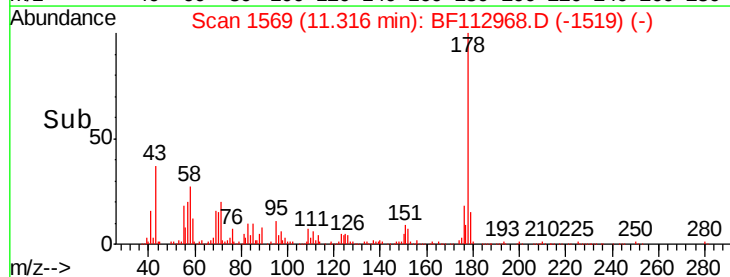
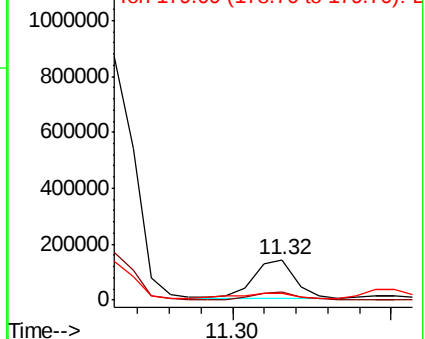


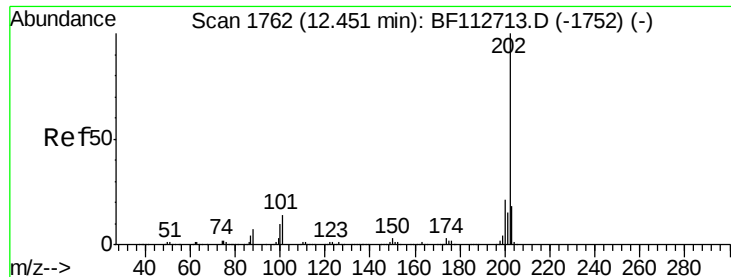
Abundance

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





#75

Fluoranthene

Concen: 23.088 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

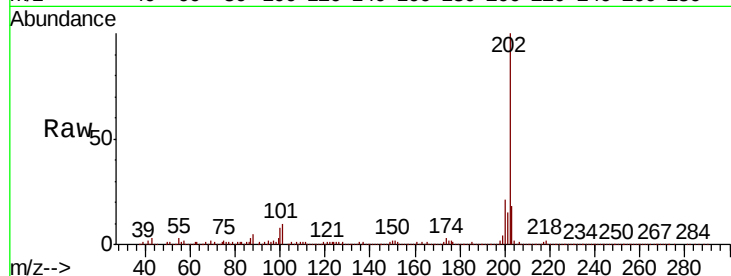
Tgt Ion:202 Resp: 919346

Ion Ratio Lower Upper

202 100

101 10.5 0.0 33.8

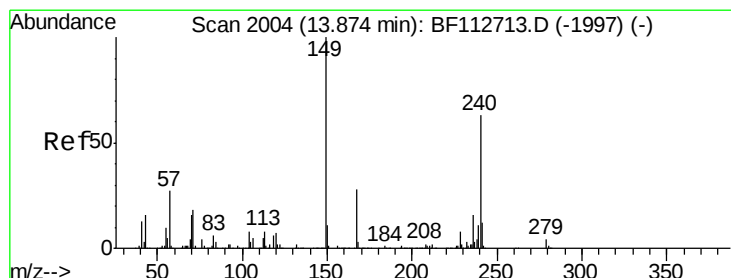
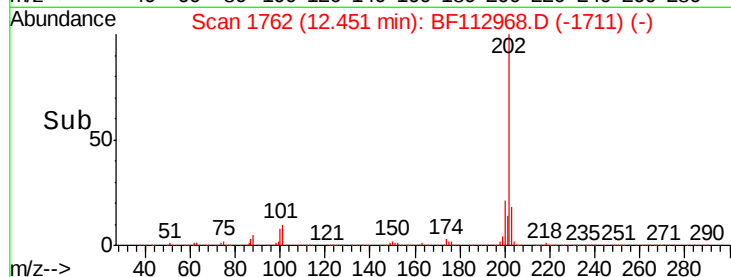
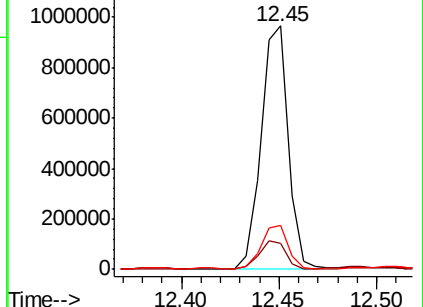
203 18.1 0.0 38.4



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

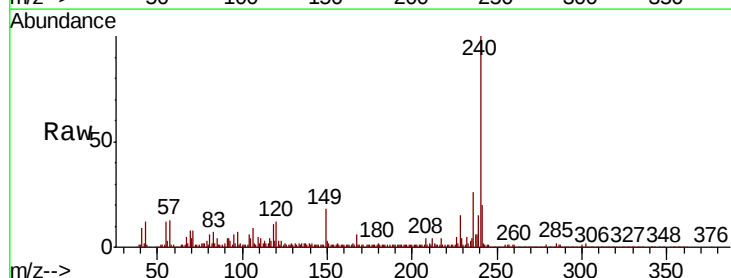
Tgt Ion:240 Resp: 521732

Ion Ratio Lower Upper

240 100

120 12.2 8.9 13.3

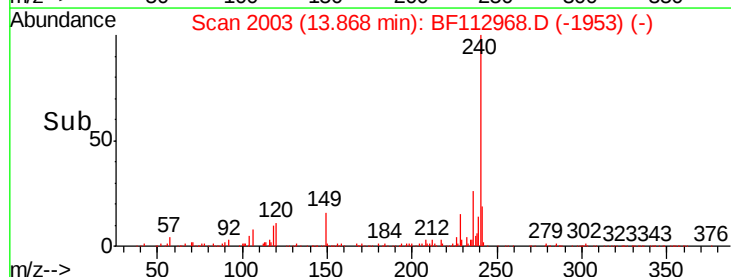
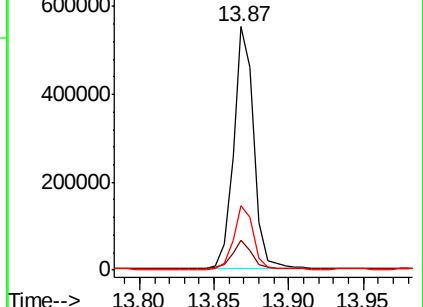
236 26.5 20.7 31.1

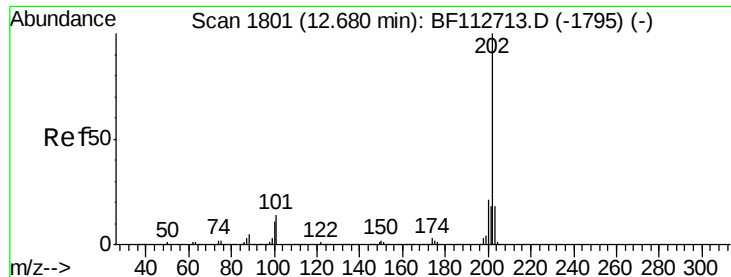


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

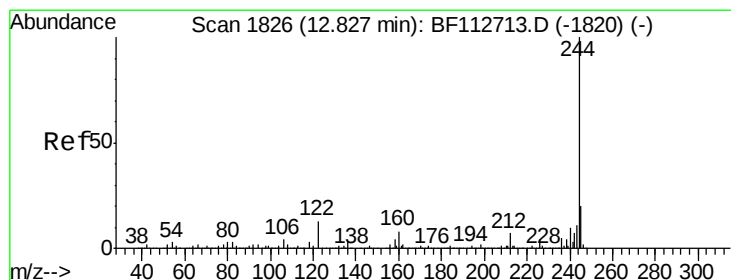
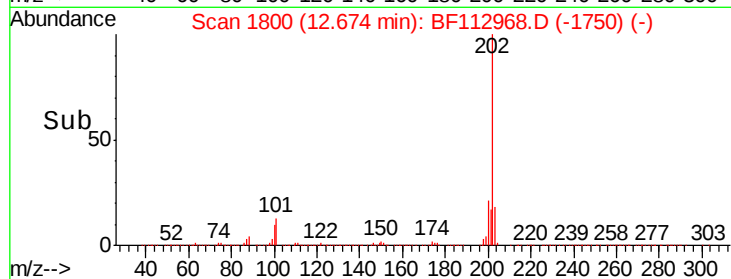
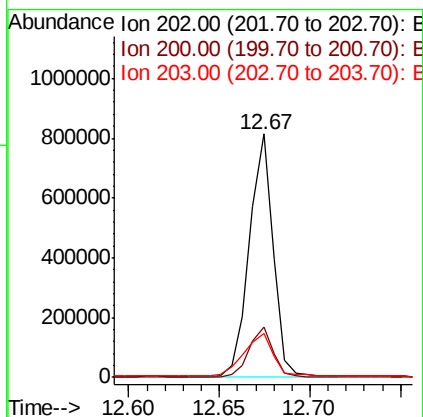
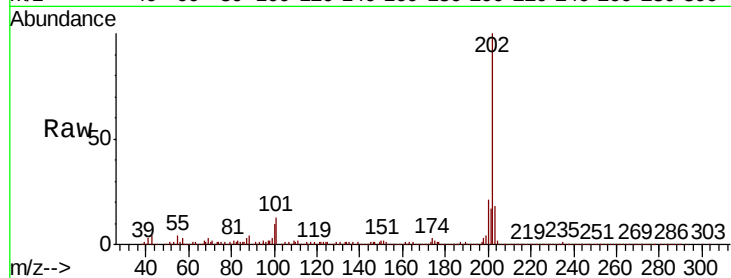




#78
Pyrene
Concen: 16.709 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.01 min
Lab File: BF112968.D
Acq: 11 Mar 2019 21:28

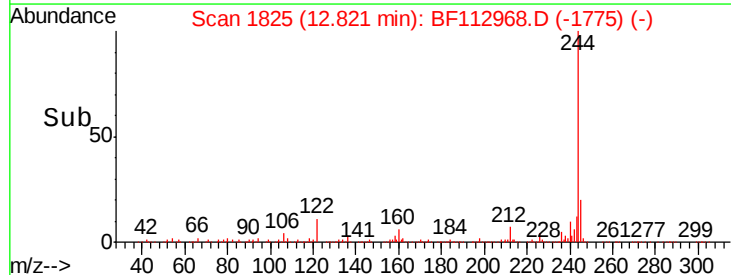
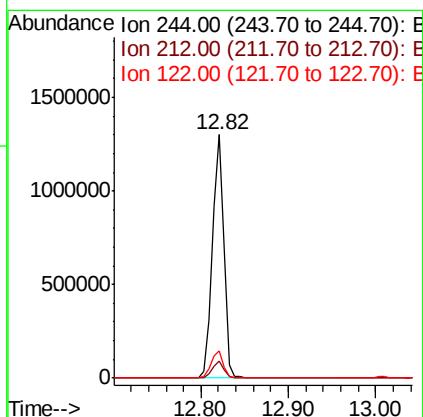
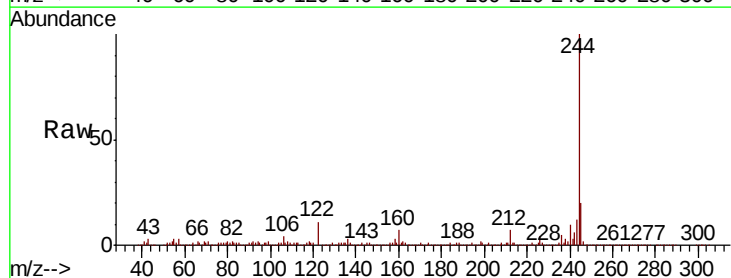
Instrument :
BNA_F
ClientSampleId :
STOCK-PILE-1

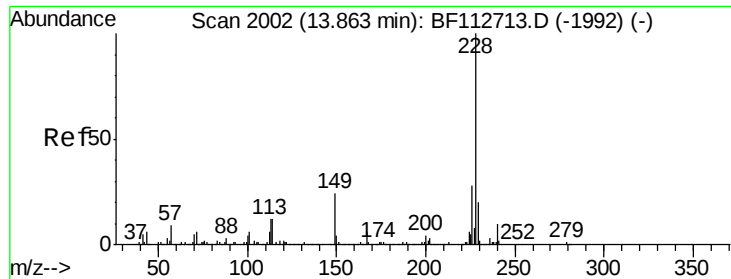
Tgt Ion:202 Resp: 734922
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.4
203 18.1 14.4 21.6



#79
Terphenyl-d14
Concen: 44.174 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF112968.D
Acq: 11 Mar 2019 21:28

Tgt Ion:244 Resp: 1188922
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 11.2 10.5 15.7

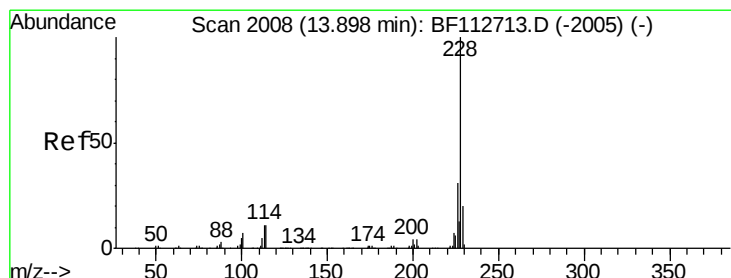
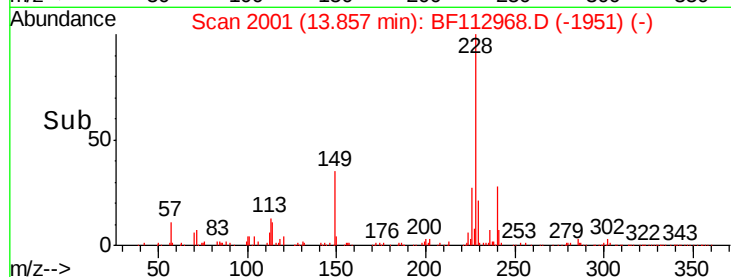
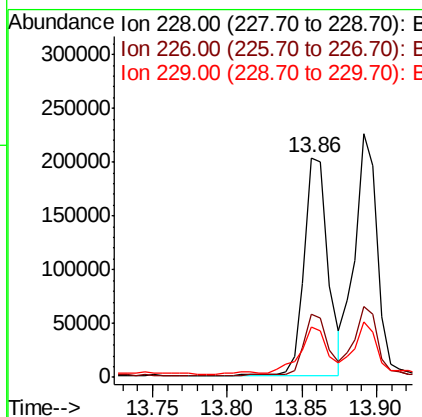
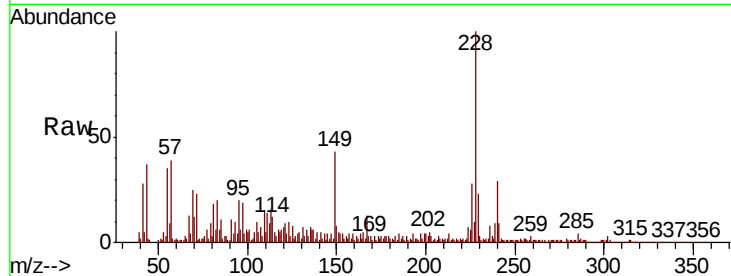




#81
Benzo(a)anthracene
Concen: 6.229 ng
RT: 13.86 min Scan# 2001
Delta R.T. -0.01 min
Lab File: BF112968.D
Acq: 11 Mar 2019 21:28

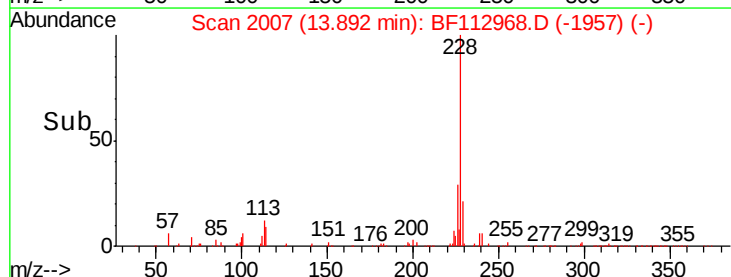
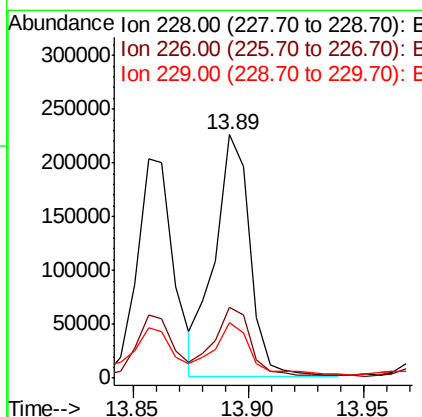
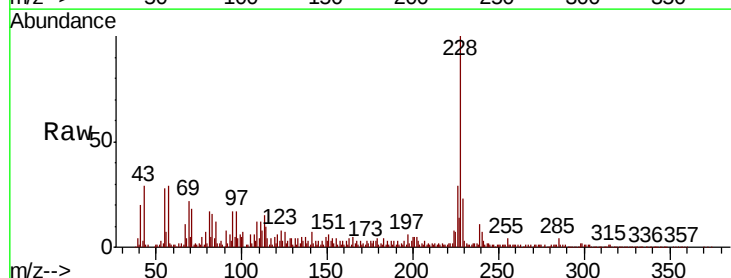
Instrument :
BNA_F
ClientSampleId :
STOCK-PILE-1

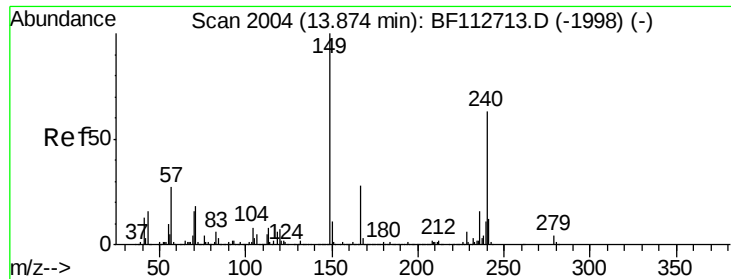
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.2	33.4
229	22.7	16.0	24.0



#83
Chrysene
Concen: 6.716 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF112968.D
Acq: 11 Mar 2019 21:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.9	37.3
229	22.8	16.3	24.5





#84

Bis(2-ethylhexyl)phthalate

Concen: 5.524 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

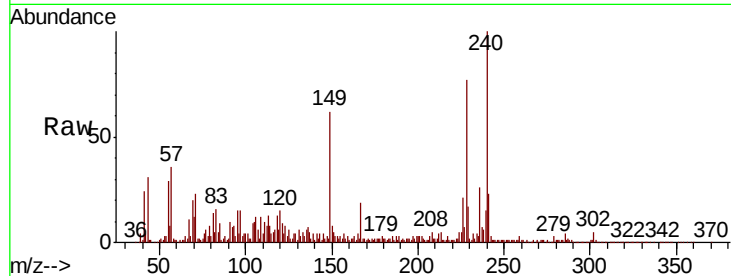
Tgt Ion:149 Resp: 125783

Ion Ratio Lower Upper

149 100

167 30.8 22.4 33.6

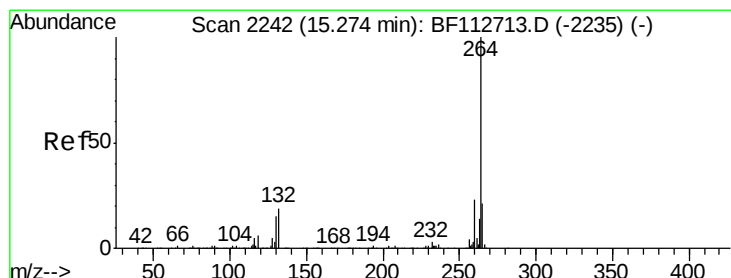
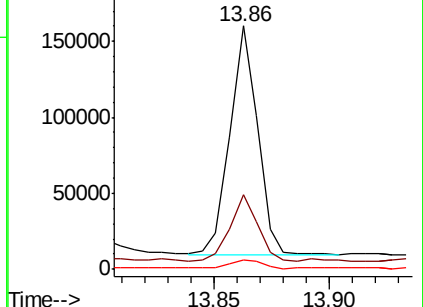
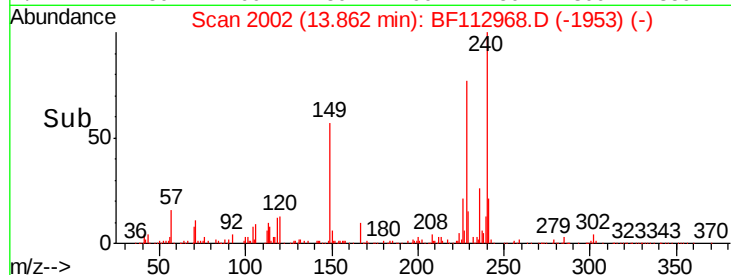
279 4.1 3.3 4.9



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.28 min Scan# 2243

Delta R.T. 0.01 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

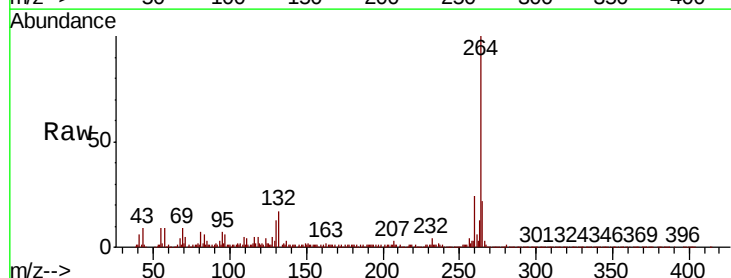
Tgt Ion:264 Resp: 515363

Ion Ratio Lower Upper

264 100

260 24.2 18.7 28.1

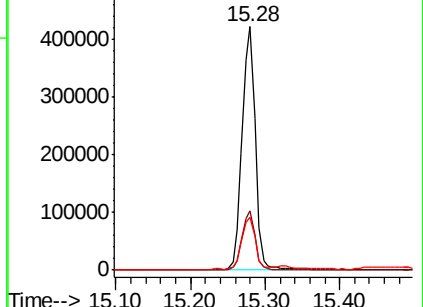
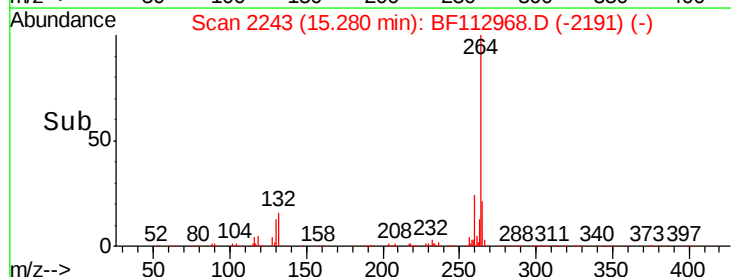
265 21.6 17.2 25.8

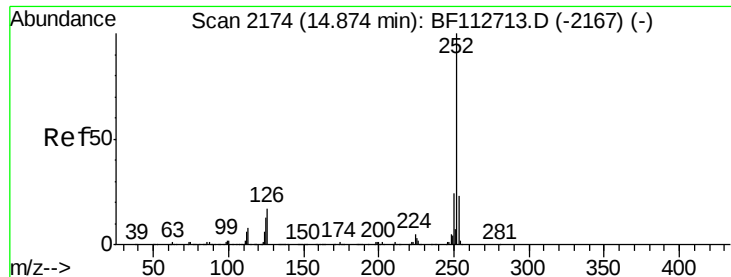


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

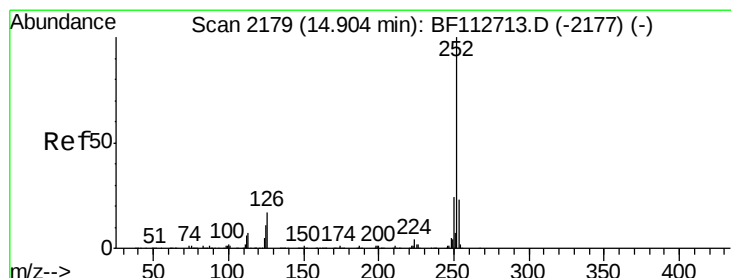
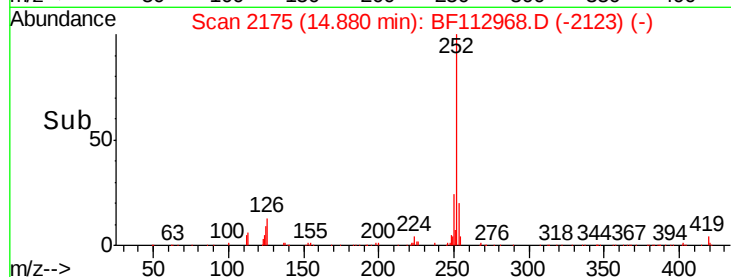
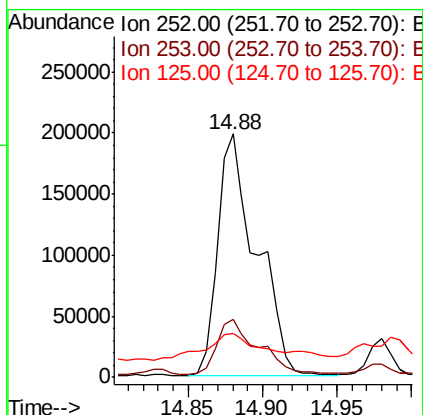
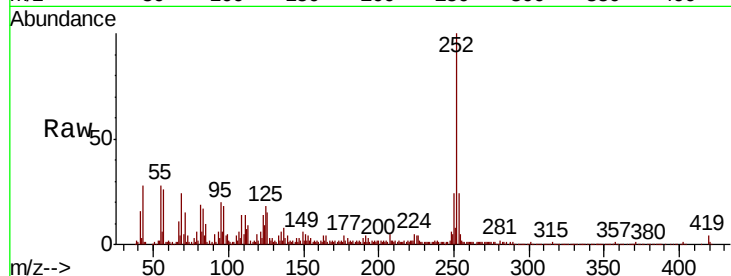




#88
Benzo(b)fluoranthene
Concen: 10.744 ng
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF112968.D
Acq: 11 Mar 2019 21:28

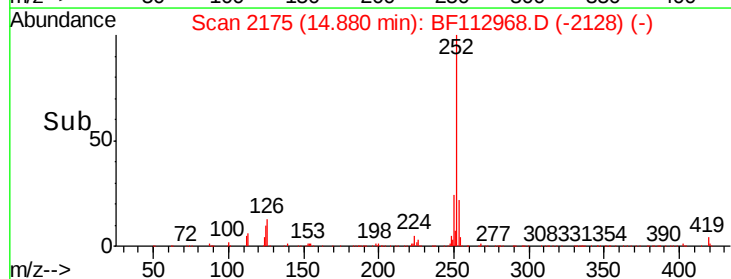
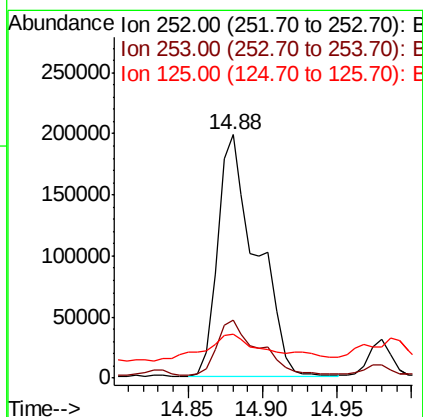
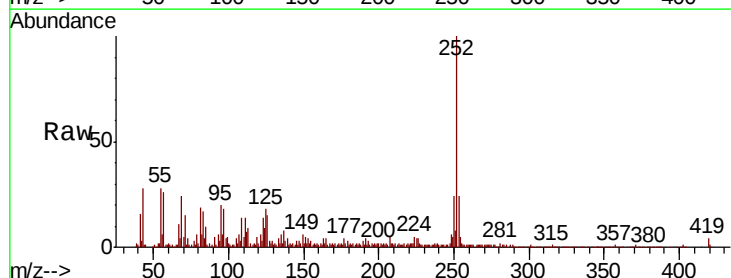
Instrument :
BNA_F
ClientSampleId :
STOCK-PILE-1

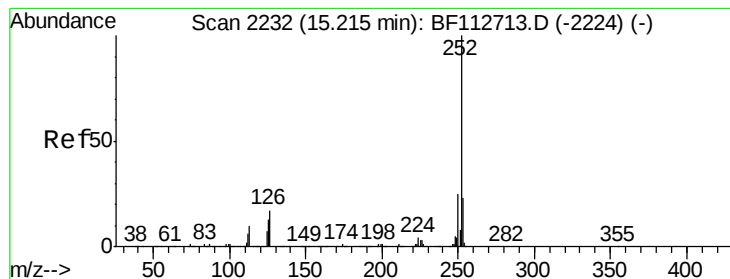
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.0	27.0
125	18.2	10.2	15.2#



#89
Benzo(k)fluoranthene
Concen: 11.862 ng
RT: 14.88 min Scan# 2175
Delta R.T. -0.02 min
Lab File: BF112968.D
Acq: 11 Mar 2019 21:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.2
125	18.2	9.8	14.6#





#90

Benzo(a)pyrene

Concen: 5.128 ng

RT: 15.22 min Scan# 2232

Delta R.T. -0.00 min

Lab File: BF112968.D

Acq: 11 Mar 2019 21:28

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-1

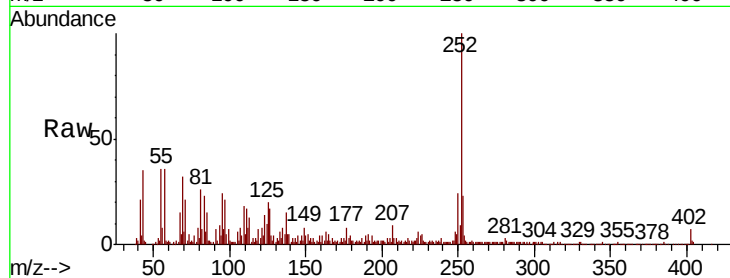
Tgt Ion:252 Resp: 151201

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

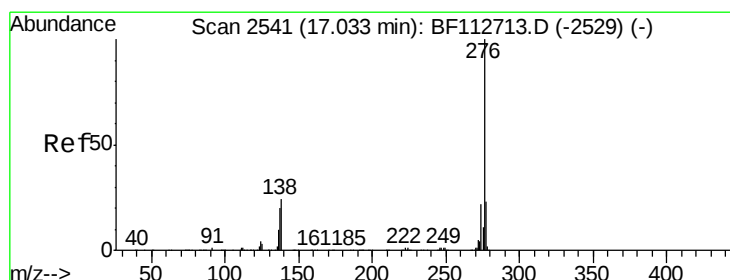
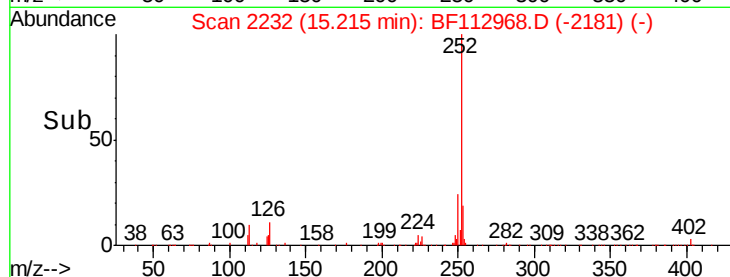
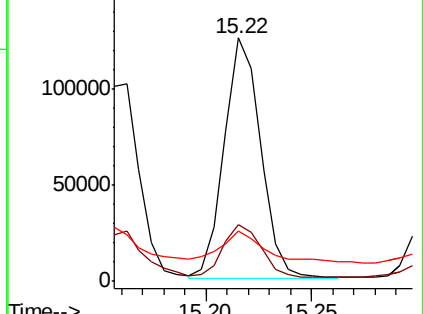
125 20.5 10.7 16.1#



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



#92

Benzo(g,h,i)perylene

Concen: 3.579 ng

RT: 17.06 min Scan# 2546

Delta R.T. 0.03 min

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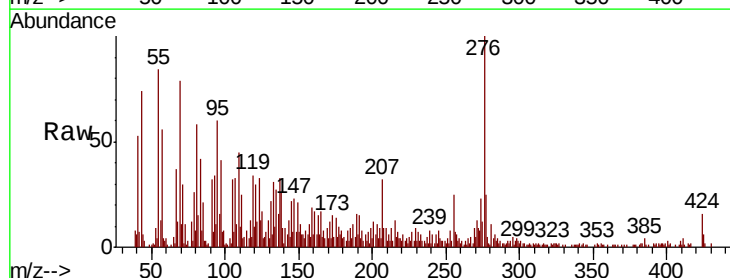
Tgt Ion:276 Resp: 90427

Ion Ratio Lower Upper

276 100

277 24.8 18.6 27.8

138 26.4 19.4 29.0



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

