

Data Path : U:\HPCHEM1\BNA F\DATA\BF012018\
 Data File : BF102276.D
 Acq On : 20 Jan 2018 19:55
 Operator : SJ/JU
 Sample : J1214-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 22 01:25:42 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 19 13:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	165478	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	632551	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	261743	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	299353	20.00	ng	0.01
75) Chrysene-d12	13.90	240	228768	20.00	ng	0.03
86) Perylene-d12	15.32	264	226365	20.00	ng	0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.33	112	1009110	86.11	ng	0.00
7) Phenol-d6	6.37	99	1238625	88.59	ng	0.00
23) Nitrobenzene-d5	7.29	82	714518	66.38	ng	-0.01
41) 2,4,6-Tribromophenol	10.56	330	181856	79.61	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	716415	42.76	ng	0.00
78) Terphenyl-d14	12.83	244	470253	42.68	ng	0.00

Target Compounds

						Qvalue
10) Phenol	6.37	94	74830	4.736	ng	93
18) Hexachloroethane	7.26	117	22550	4.737	ng	# 1
25) Isophorone	7.29	82	708566	33.314	ng	# 65
31) Naphthalene	8.05	128	5186852	164.102	ng	97
33) 4-Chloroaniline	8.05	127	736507	54.594	ng	# 36
37) 2-Methylnaphthalene	8.73	142	1410299	67.776	ng	99
45) 1,1'-Biphenyl	9.19	154	1050537	45.408	ng	98
47) 2-Nitroaniline	9.28	65	12872	2.395	ng	# 38
48) Acenaphthylene	9.64	152	3390262	119.077	ng	96
49) Dimethylphthalate	9.49	163	147493	7.024	ng	97
51) Acenaphthene	9.80	154	878695	50.848	ng	96
53) 2,4-Dinitrophenol	9.83	184	933	9.177	ng	# 1
54) Dibenzofuran	9.97	168	474858	20.022	ng	# 87
55) 4-Nitrophenol	9.91	139	10619	2.692	ng	# 40
56) 2,4-Dinitrotoluene	10.00	165	22855	4.348	ng	# 51
57) Fluorene	10.33	166	2396077	146.145	ng	98
62) Azobenzene	10.47	77	48439	2.331	ng	# 1
64) 4,6-Dinitro-2-methylphenol	10.38	198	924	6.163	ng	# 1
65) n-Nitrosodiphenylamine	10.42	169	118309	10.554	ng	# 69
70) Phenanthrene	11.30	178	8384702	479.504	ng	99
71) Anthracene	11.36	178	2982733	168.190	ng	97
72) Carbazole	11.49	167	63089	3.619	ng	# 75
74) Fluoranthene	12.50	202	5007014	291.036	ng	98
77) Pyrene	12.73	202	6340050	313.528	ng	98
80) Benzo(a)anthracene	13.89	228	2268265	155.403	ng	# 89
81) 3,3'-Dichlorobenzidine	13.93	252	40617	7.515	ng	# 1
82) Chrysene	13.93	228	1840017	120.897	ng	96
85) Indeno(1,2,3-cd)pyrene	16.72	276	736369	66.475	ng	97
87) Benzo(b)fluoranthene	14.92	252	2349448	159.179	ng	# 95
88) Benzo(k)fluoranthene	14.92	252	2349448	165.009	ng	98
89) Benzo(a)pyrene	15.27	252	1669772	125.720	ng	97
90) Dibenzo(a,h)anthracene	16.72	278	154589	14.585	ng	95
91) Benzo(a,h,i)perylene	17.14	276	817201	76.540	ng	98

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QLast Update : Fri Jan 19 13:31:35 2018
Response via : Initial Calibration

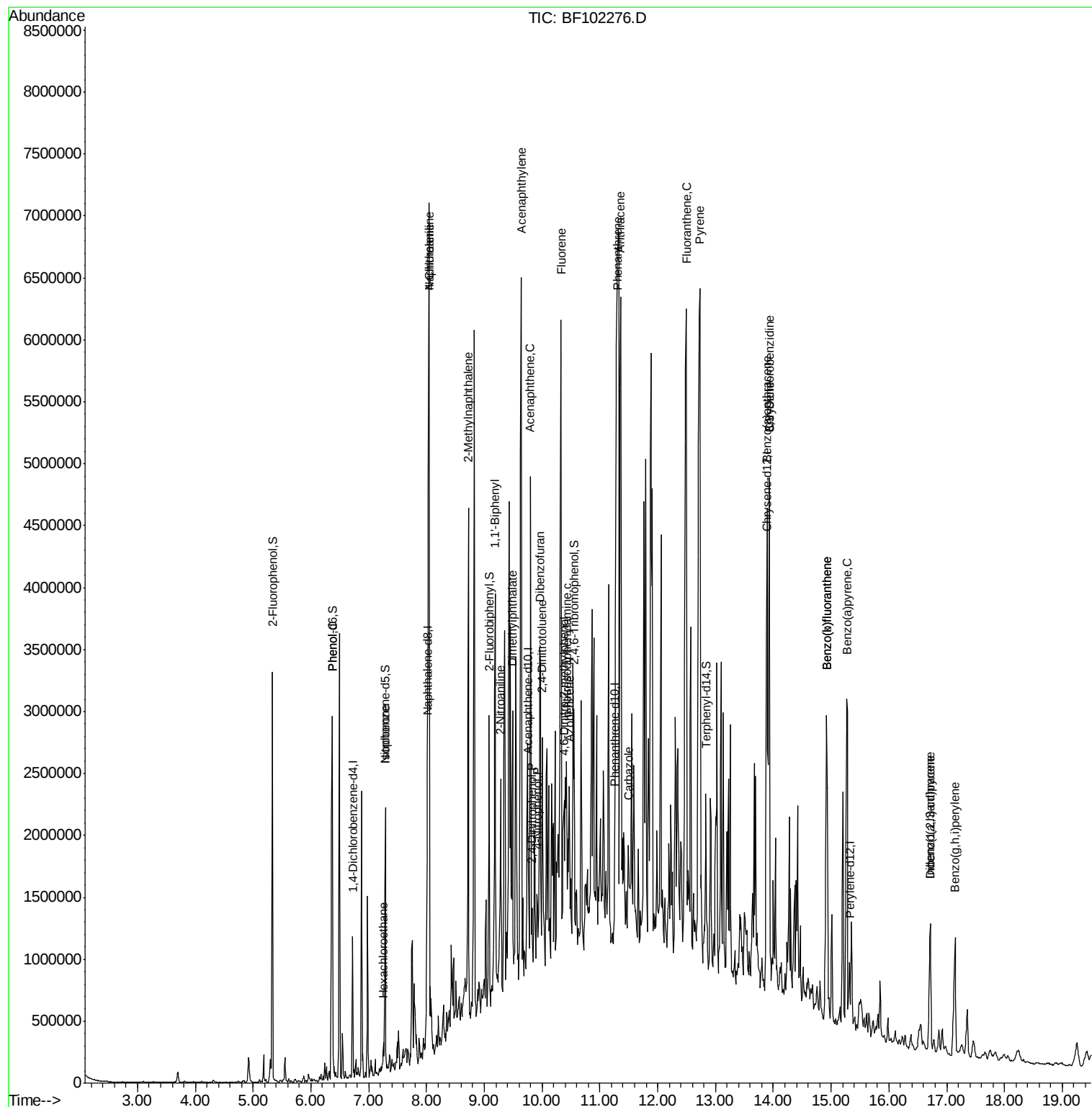
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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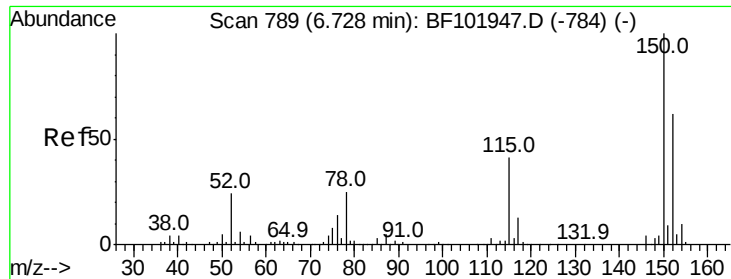
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Operator : SJ/JU
Sample : J1214-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :

Quant Time: Jan 22 01:25:42 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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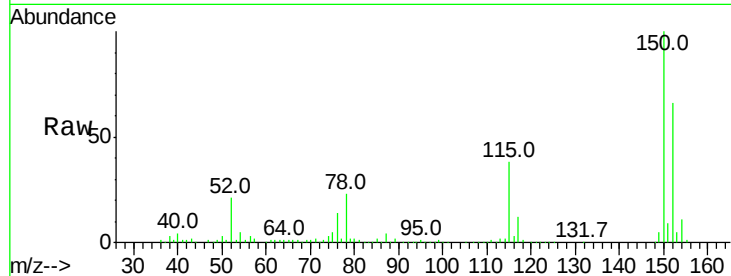


#1

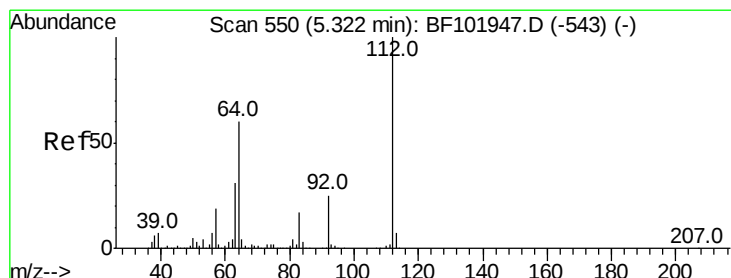
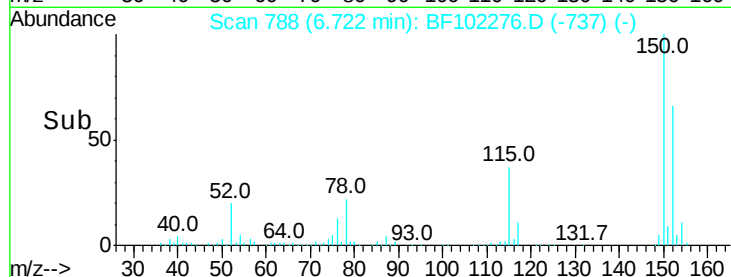
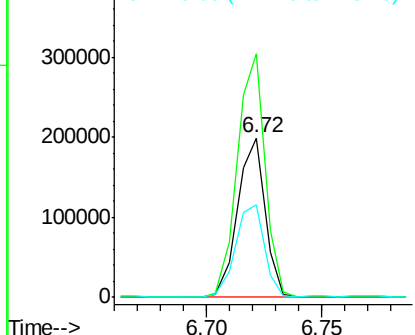
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 165478
Ion Ratio Lower Upper
152 100
150 152.4 124.6 186.8
115 58.0 50.1 75.1



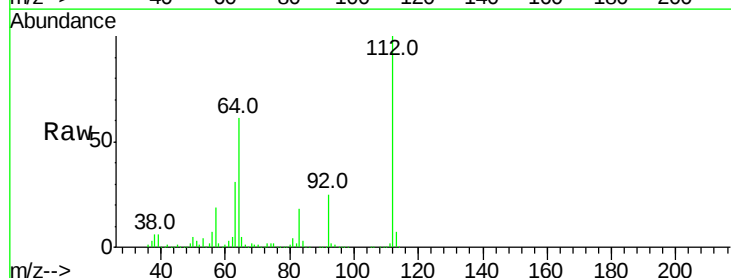
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



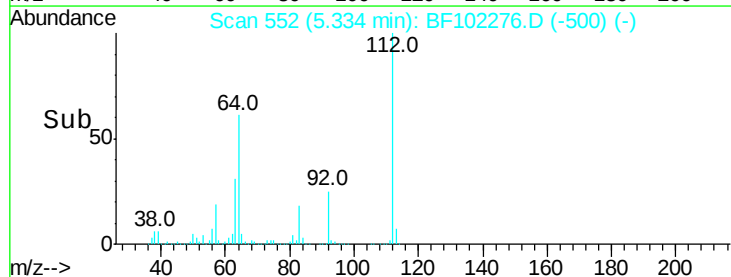
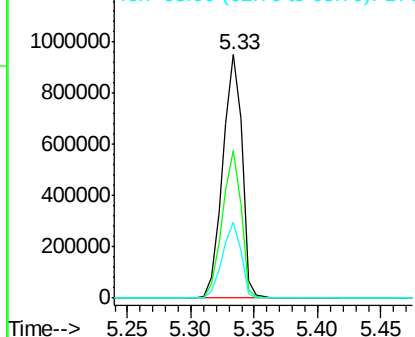
#5

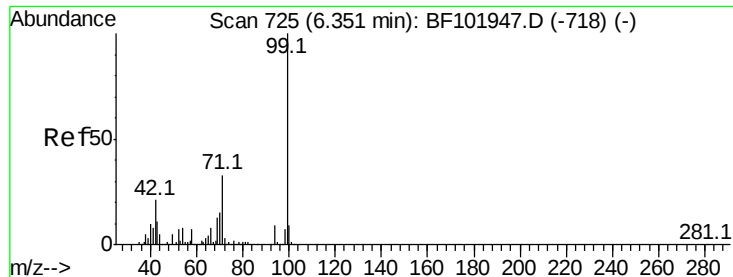
2-Fluorophenol
Concen: 86.111 ng
RT: 5.33 min Scan# 552
Delta R.T. 0.01 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Tgt Ion:112 Resp: 1009110
Ion Ratio Lower Upper
112 100
64 60.6 47.9 71.9
63 31.2 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: 88.589 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.00 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

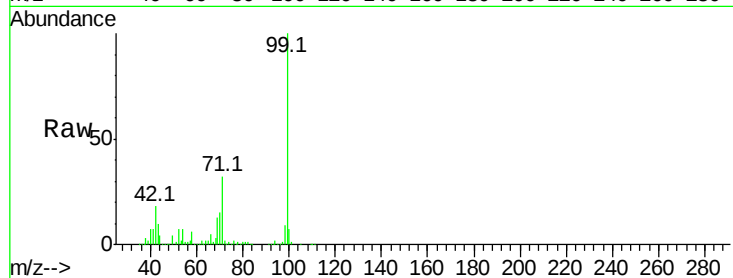
Tot Ion: 99 Resp: 1238625

Ion Ratio Lower Upper

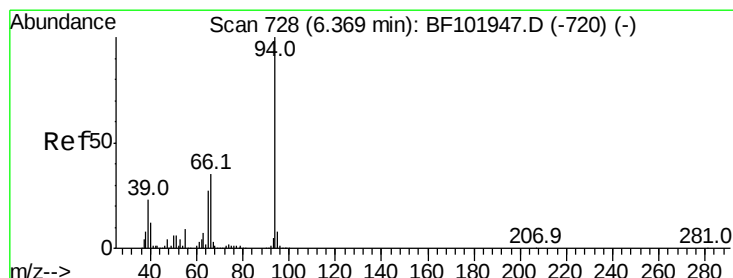
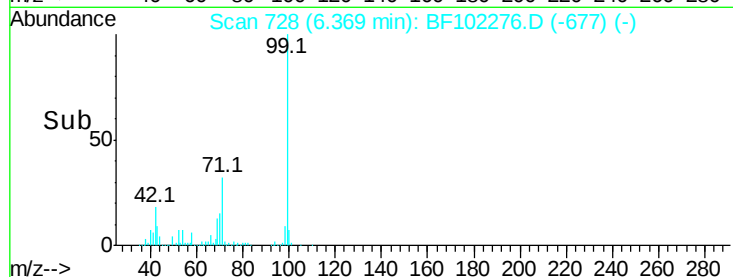
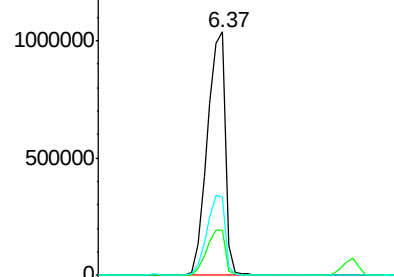
99 100

42 18.4 14.5 21.7

71 32.3 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



#10

Phenol

Concen: 4.736 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

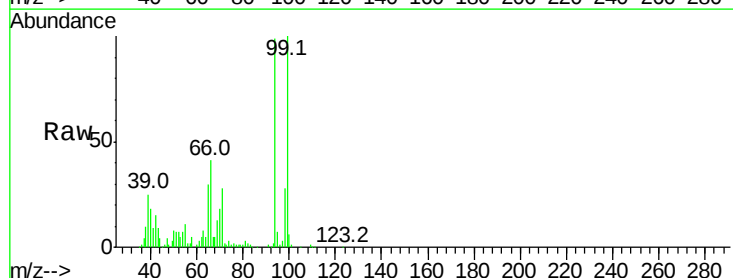
Tgt Ion: 94 Resp: 74830

Ion Ratio Lower Upper

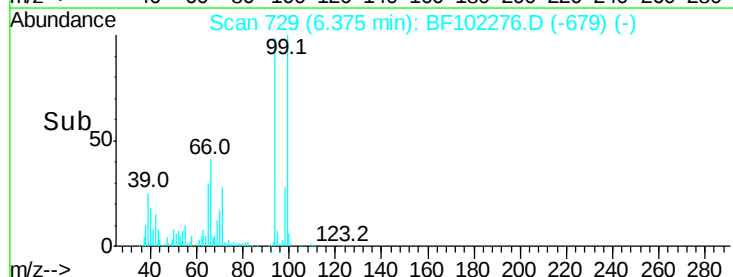
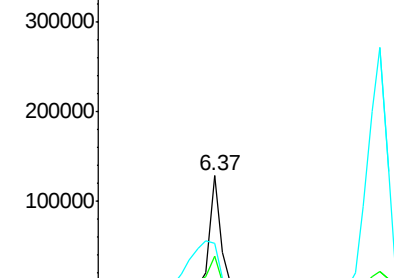
94 100

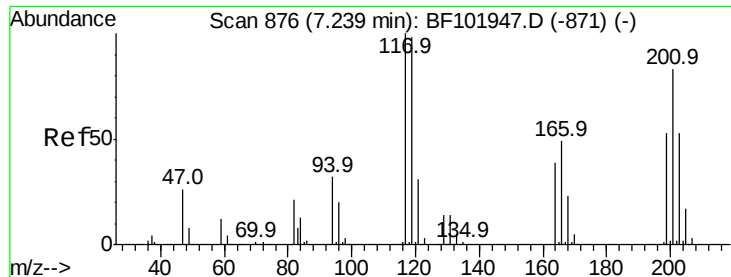
65 30.0 7.9 47.9

66 41.7 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

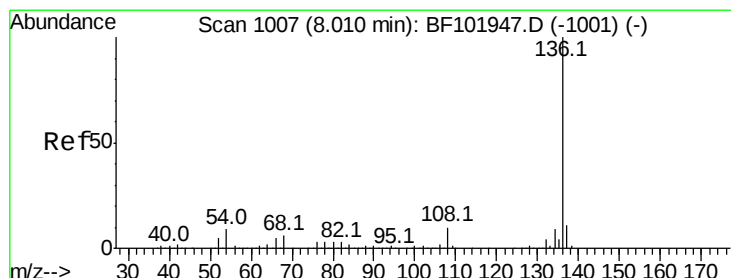
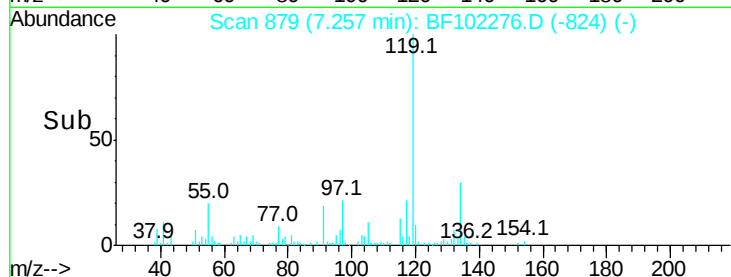
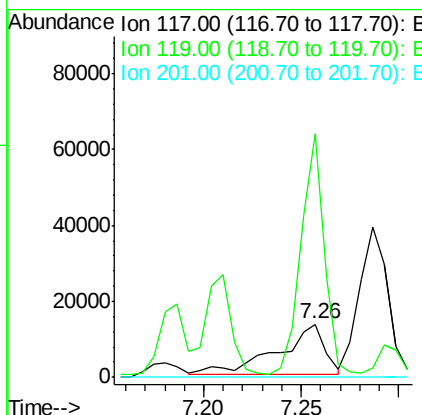
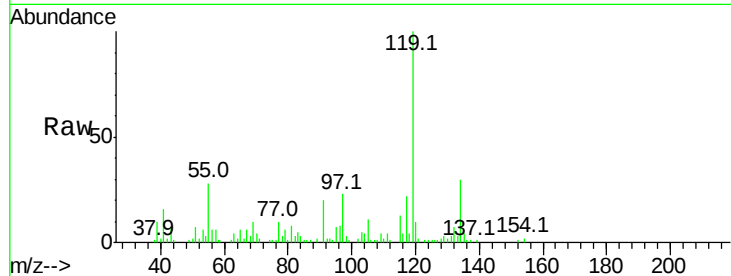




#18
Hexachloroethane
Concen: 4.737 ng
RT: 7.26 min Scan# 879
Delta R.T. 0.02 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

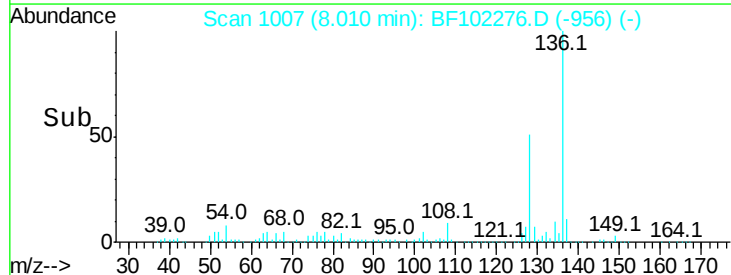
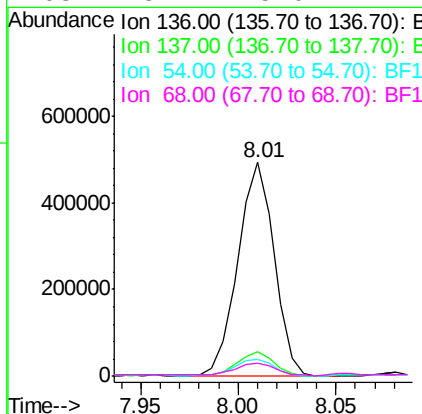
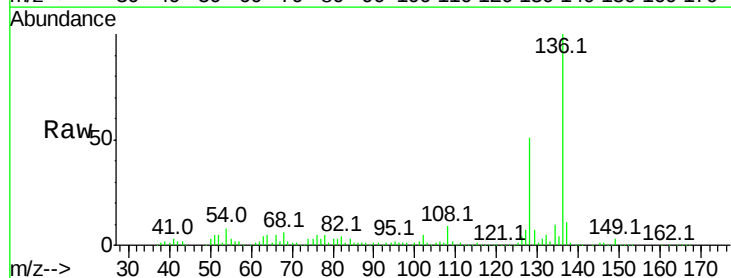
Instrument :
BNA_F
ClientSampleId :

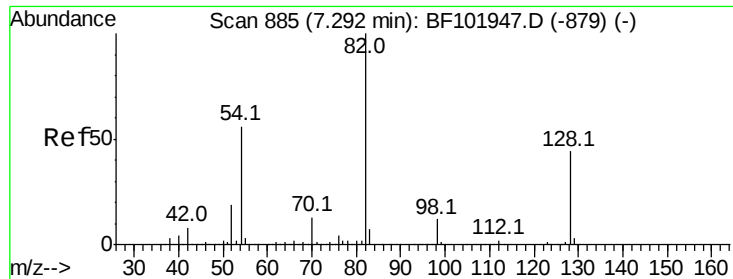
Tot Ion:117 Resp: 22550
Ion Ratio Lower Upper
117 100
119 460.1 75.8 113.8#
201 0.0 75.7 113.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Tgt Ion:136 Resp: 632551
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 8.0 6.6 9.8
68 5.7 5.0 7.4

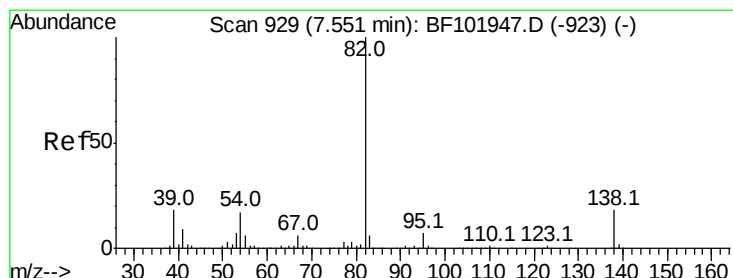
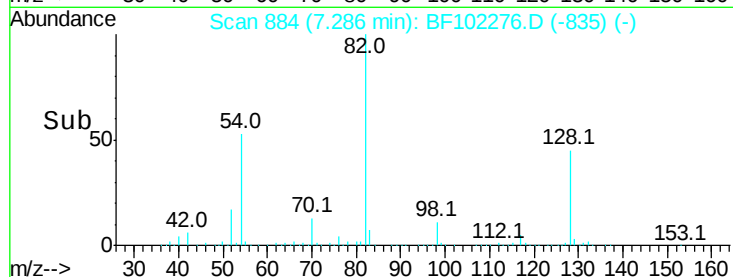
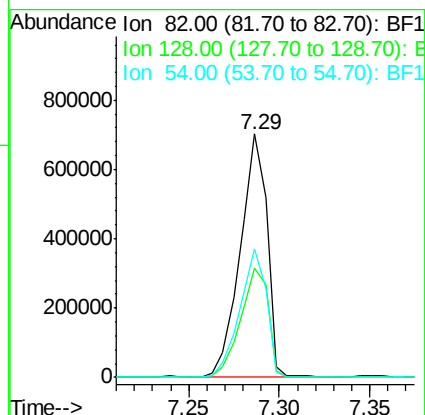
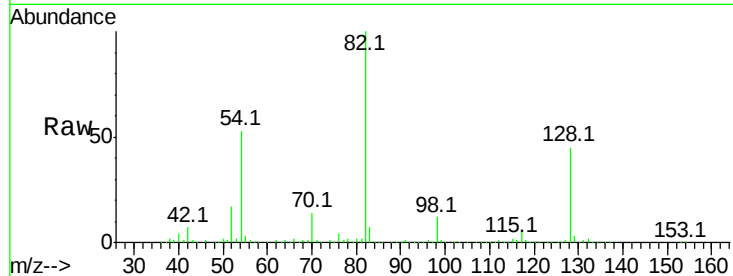




#23
Nitrobenzene-d5
Concen: 66.379 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

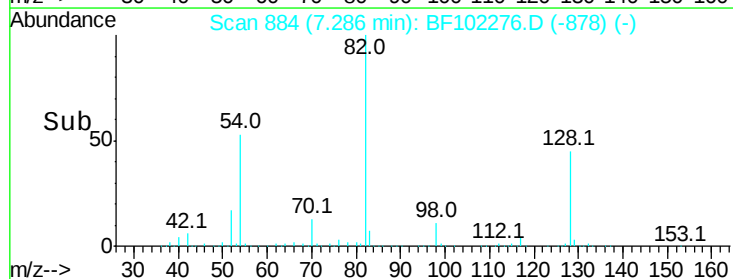
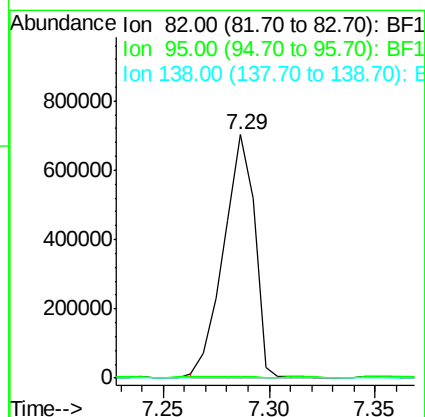
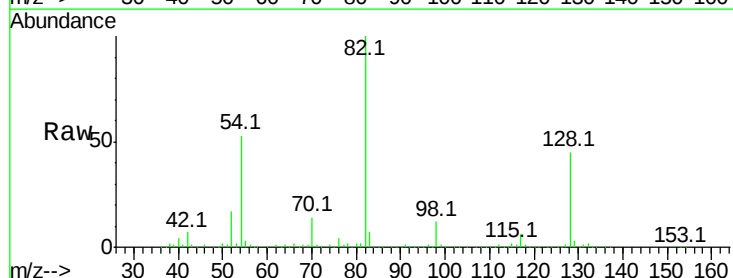
Instrument :
BNA_F
ClientSampled :

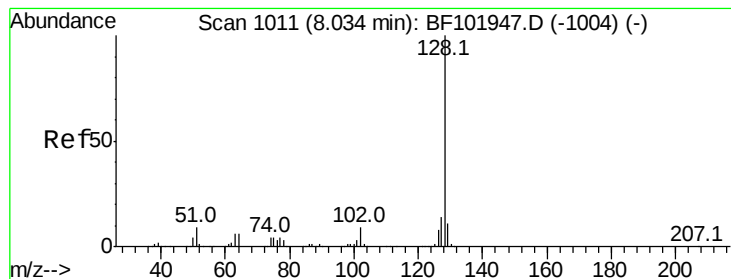
Tot Ion	82	Resp	714518
Ion Ratio	Lower	Upper	
82	100		
128	44.9	36.1	54.1
54	52.5	41.4	62.2



#25
Isophorone
Concen: 33.314 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.26 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Tgt Ion	82	Resp	708566
Ion Ratio	Lower	Upper	
82	100		
95	0.5	5.2	7.8#
138	0.0	14.9	22.3#





#31

Naphthalene

Concen: 164.102 ng

RT: 8.05 min Scan# 1013

Delta R.T. 0.01 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

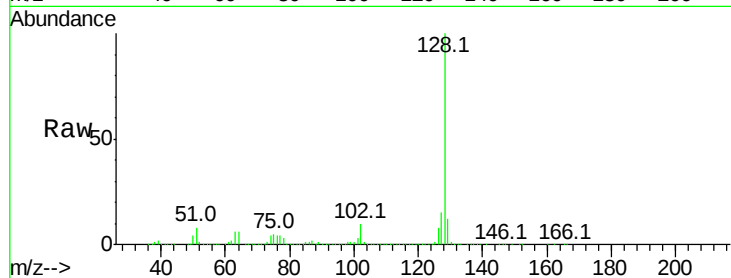
Tot Ion:128 Resp: 5186852

Ion Ratio Lower Upper

128 100

129 11.8 8.8 13.2

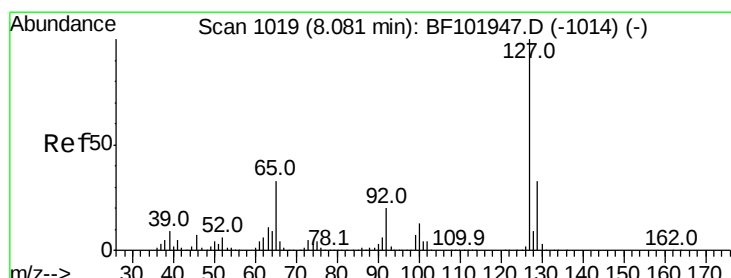
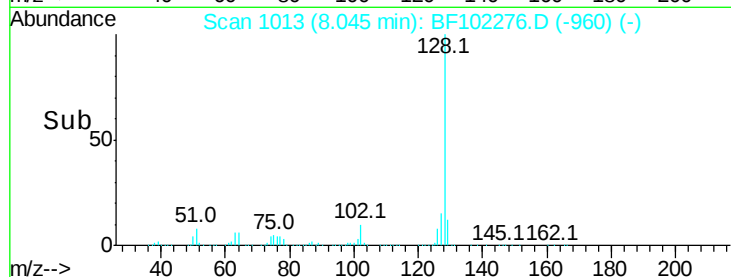
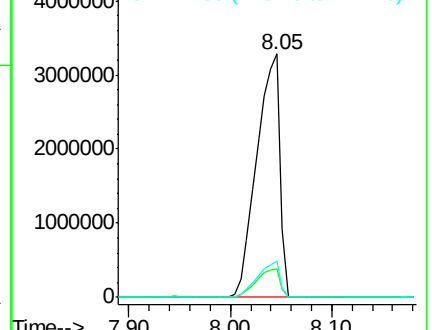
127 14.8 10.9 16.3



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



#33

4-Chloroaniline

Concen: 54.594 ng

RT: 8.05 min Scan# 1013

Delta R.T. -0.04 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Tgt Ion:127 Resp: 736507

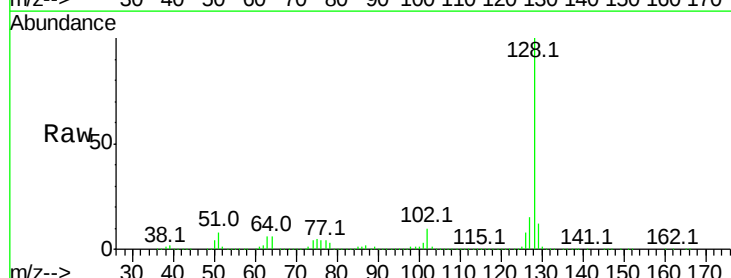
Ion Ratio Lower Upper

127 100

129 80.1 25.9 38.9#

65 0.0 25.0 37.4#

92 0.1 15.2 22.8#

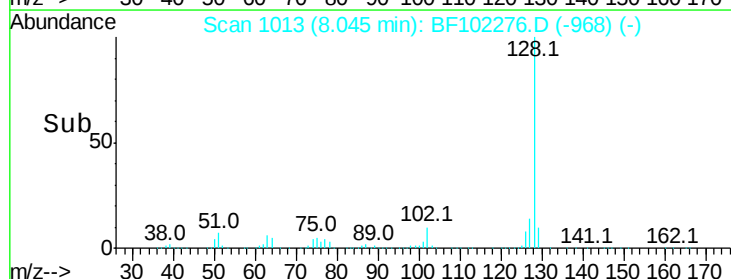
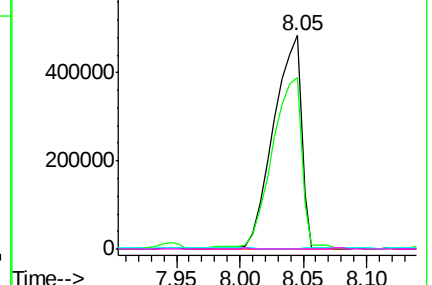


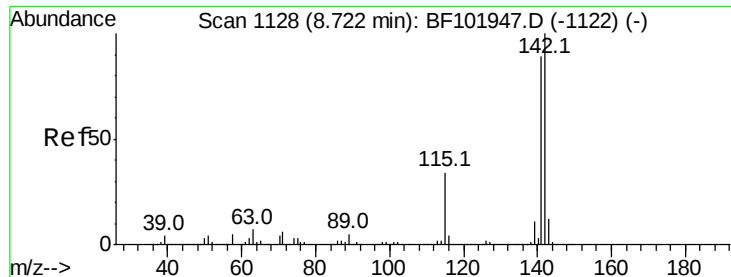
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

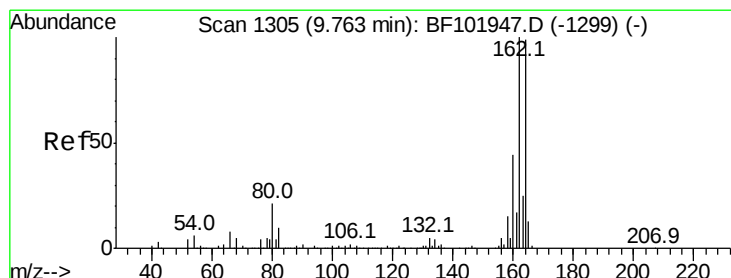
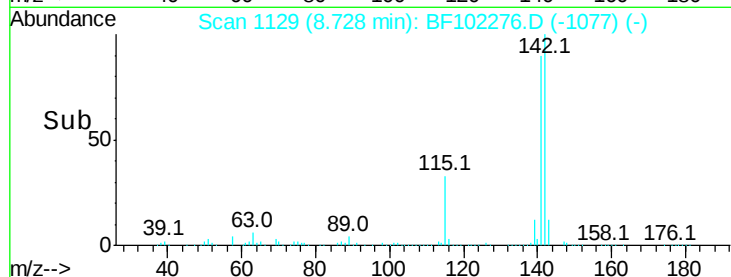
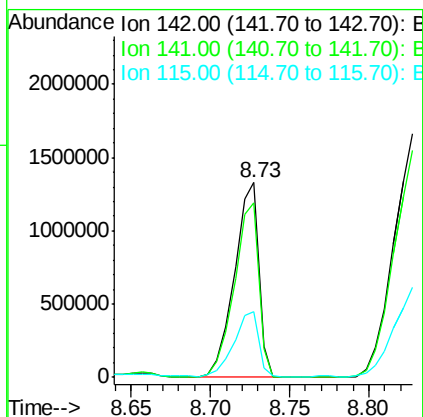
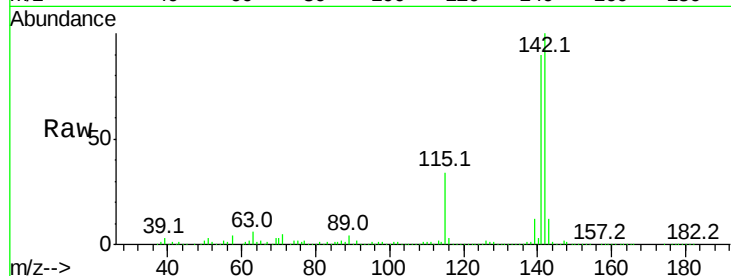




#37
2-Methylnaphthalene
Concen: 67.776 ng
RT: 8.73 min Scan# 1129
Delta R.T. 0.01 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

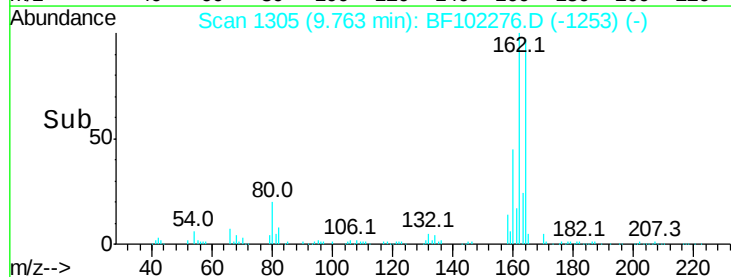
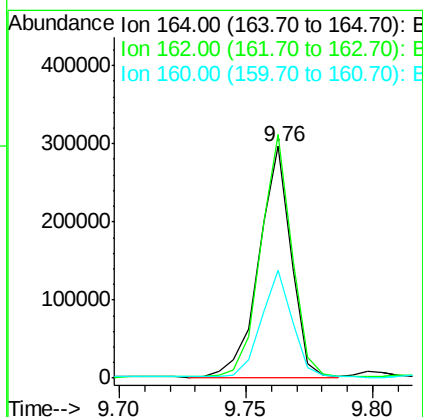
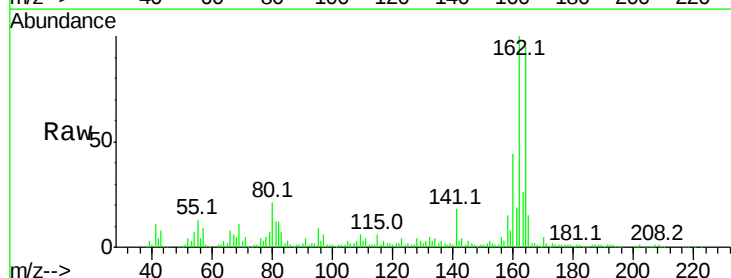
Instrument :
BNA_F
ClientSampleId :

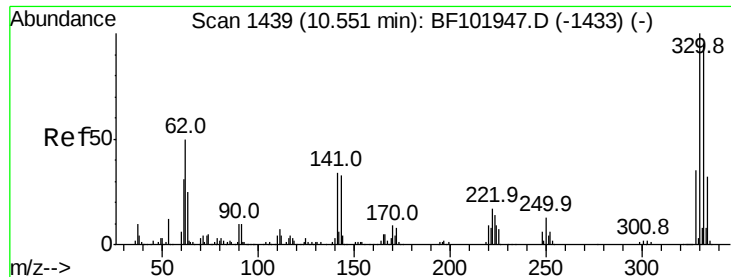
Tot Ion:142 Resp: 1410299
Ion Ratio Lower Upper
142 100
141 89.7 70.8 106.2
115 33.5 26.1 39.1



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.01 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Tgt Ion:164 Resp: 261743
Ion Ratio Lower Upper
164 100
162 104.9 86.1 129.1
160 46.6 38.3 57.5

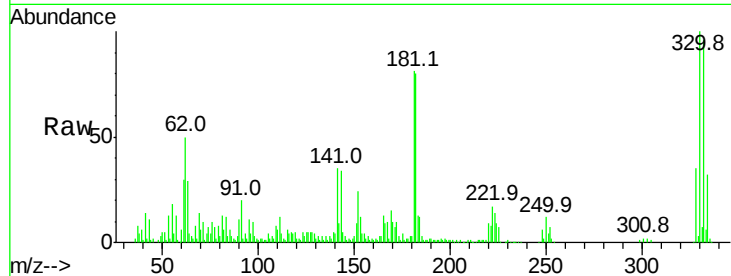




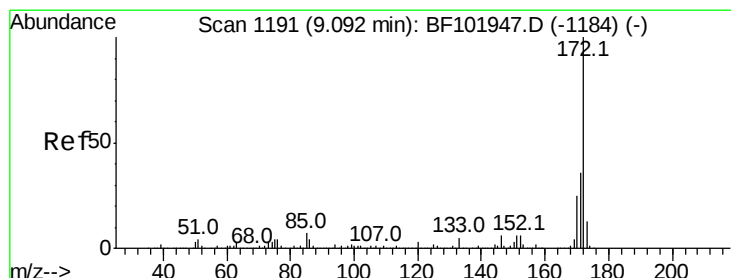
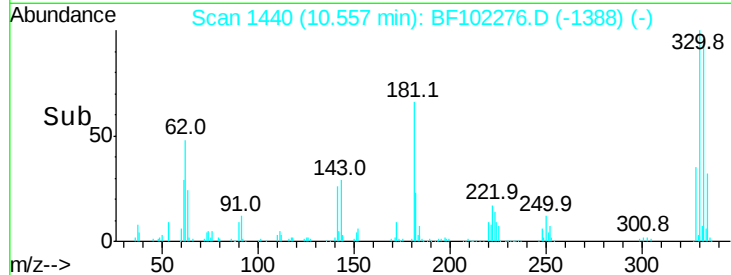
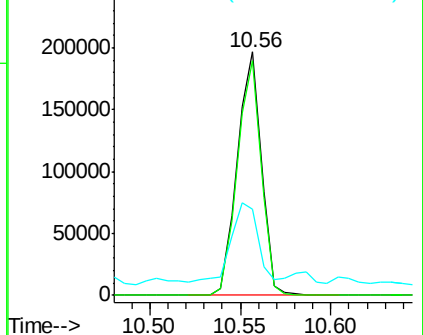
#41
 2,4,6-Tribromophenol
 Concen: 79.615 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. 0.01 min
 Lab File: BF102276.D
 Acq: 20 Jan 2018 19:55

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 181856
 Ion Ratio Lower Upper
 330 100
 332 95.8 77.0 115.6
 141 36.6 29.9 44.9

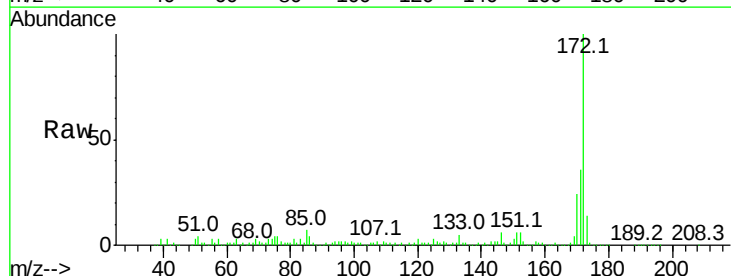


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

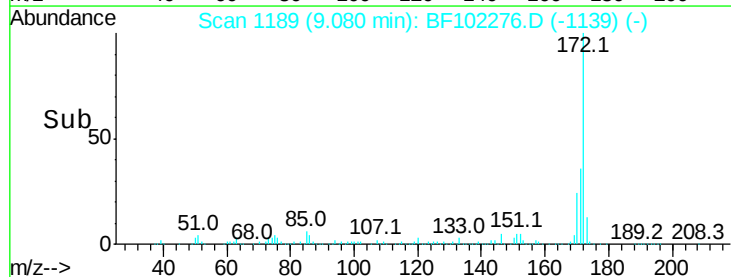
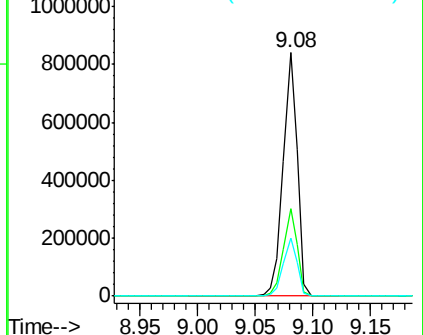


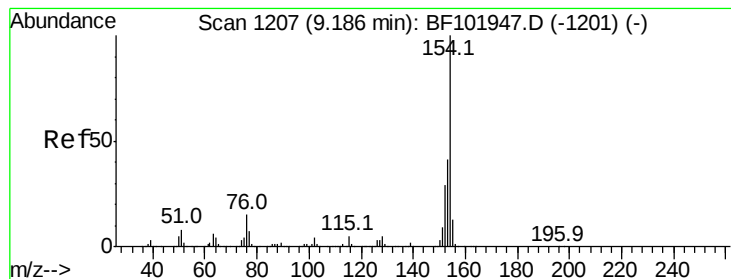
#44
 2-Fluorobiphenyl
 Concen: 42.761 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF102276.D
 Acq: 20 Jan 2018 19:55

Tgt Ion:172 Resp: 716415
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.7 44.5
 170 23.9 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





#45

1,1'-Biphenyl

Concen: 45.408 ng

RT: 9.19 min Scan# 1207

Delta R.T. 0.00 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

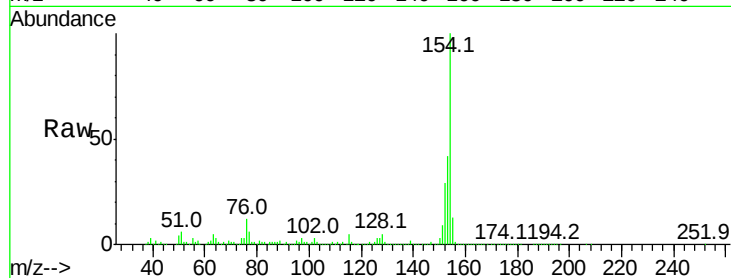
Tot Ion:154 Resp: 1050537

Ion Ratio Lower Upper

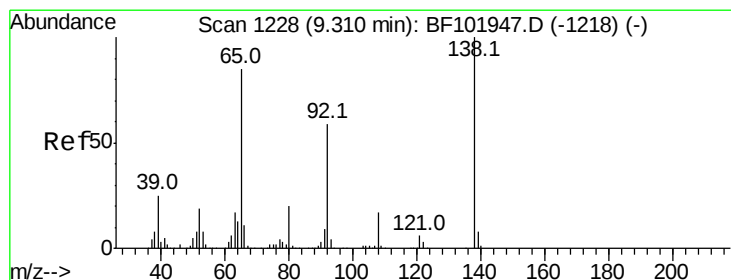
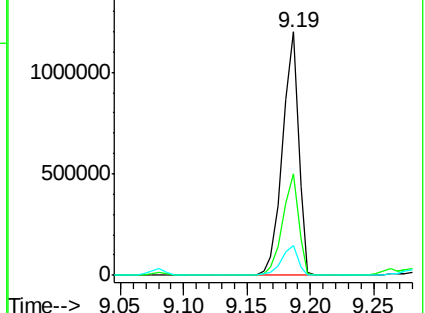
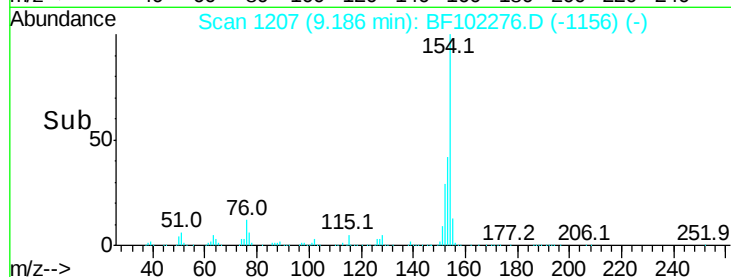
154 100

153 41.7 21.3 61.3

76 12.4 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1



#47

2-Nitroaniline

Concen: 2.395 ng

RT: 9.28 min Scan# 1223

Delta R.T. -0.03 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

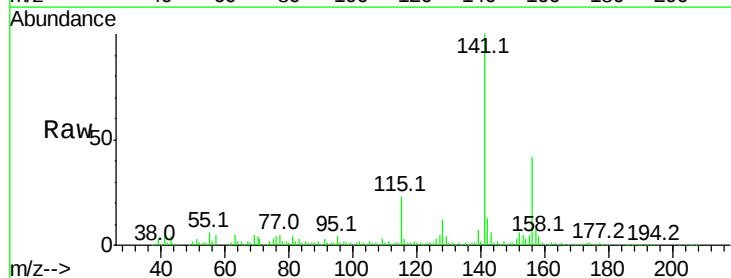
Tgt Ion: 65 Resp: 12872

Ion Ratio Lower Upper

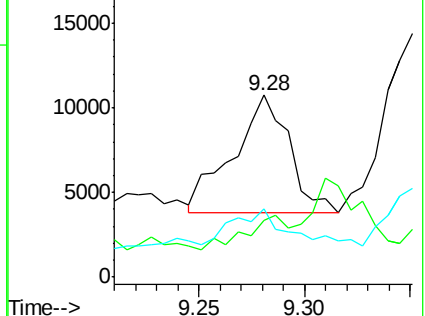
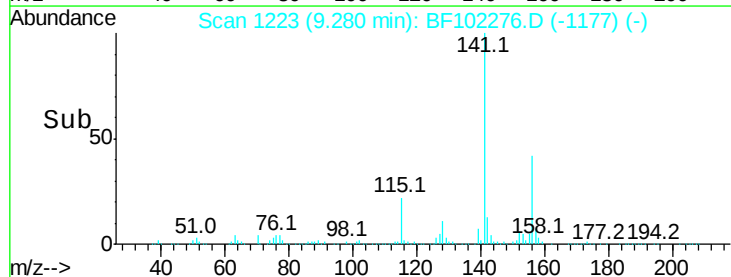
65 100

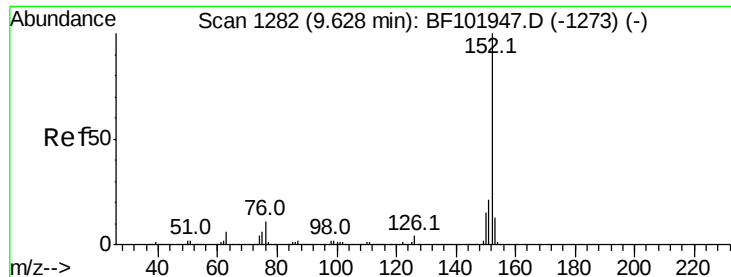
92 31.0 55.8 83.6#

138 37.8 91.2 136.8#



Abundance Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1
Ion 138.00 (137.70 to 138.70): E





#48

Acenaphthylene

Concen: 119.077 ng

RT: 9.64 min Scan# 1284

Delta R.T. 0.02 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

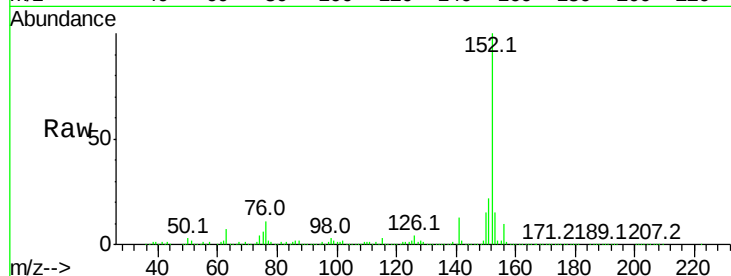
Tot Ion:152 Resp: 3390262

Ion Ratio Lower Upper

152 100

151 21.9 16.3 24.5

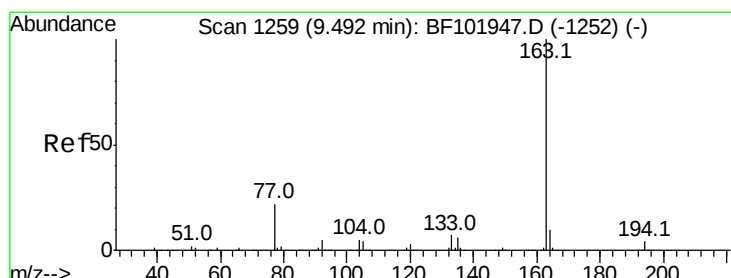
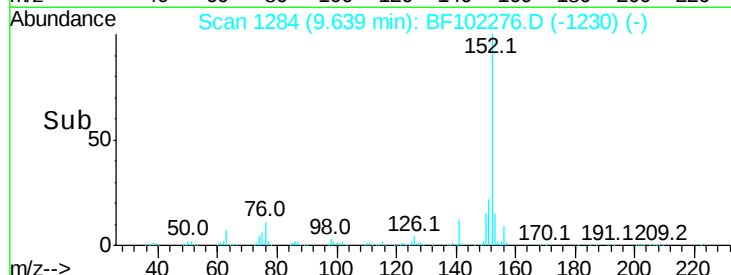
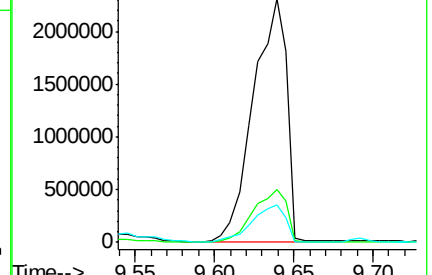
153 15.2 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 7.024 ng

RT: 9.49 min Scan# 1258

Delta R.T. -0.01 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

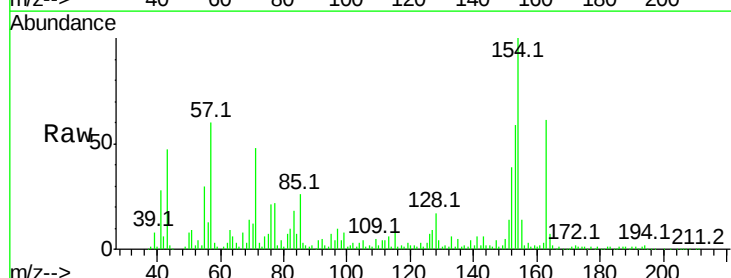
Tgt Ion:163 Resp: 147493

Ion Ratio Lower Upper

163 100

194 4.1 2.7 4.1

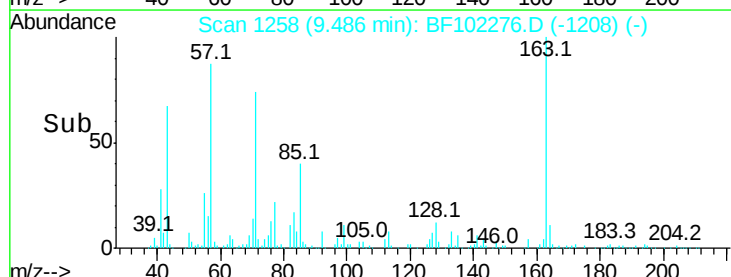
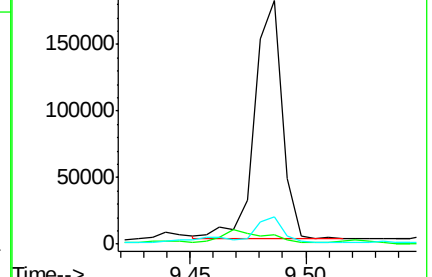
164 11.3 8.2 12.2

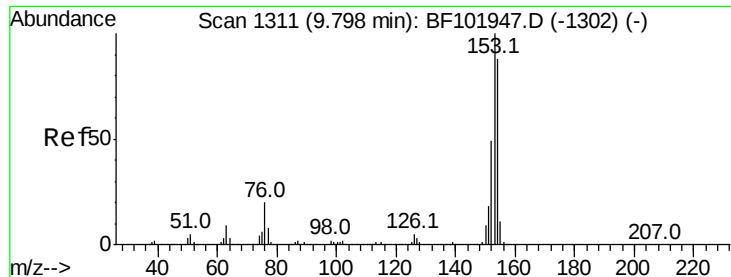


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 50.848 ng

RT: 9.80 min Scan# 1312

Delta R.T. 0.01 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

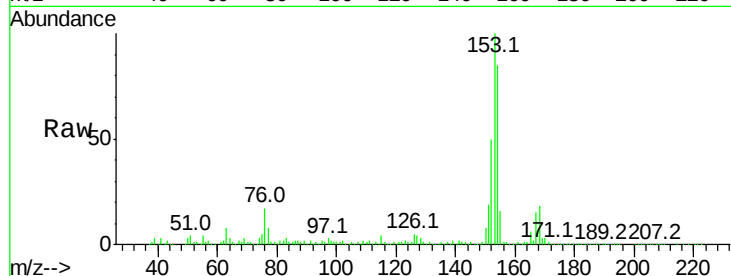
Tot Ion:154 Resp: 878695

Ion Ratio Lower Upper

154 100

153 117.5 91.2 136.8

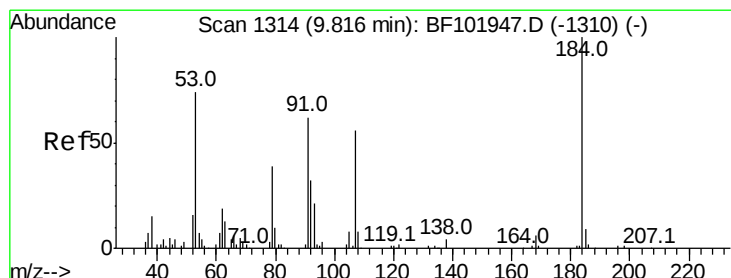
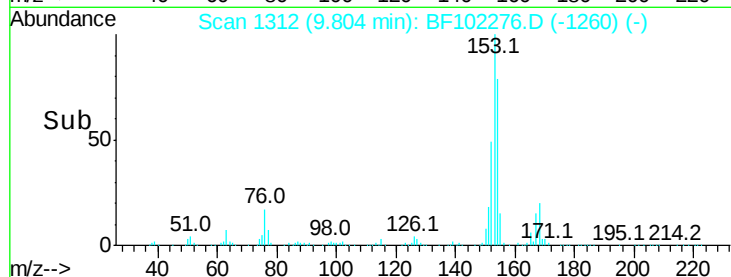
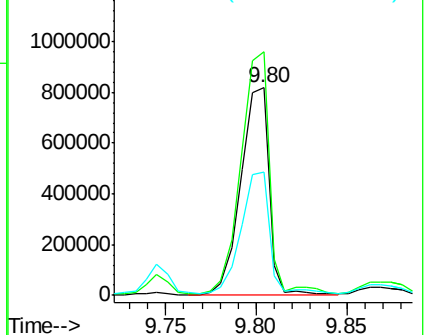
152 59.3 43.8 65.8



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



#53

2,4-Dinitrophenol

Concen: 9.177 ng

RT: 9.83 min Scan# 1316

Delta R.T. 0.00 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

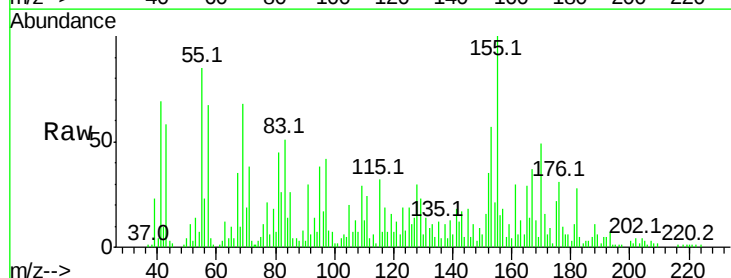
Tgt Ion:184 Resp: 933

Ion Ratio Lower Upper

184 100

63 619.9 54.2 81.2#

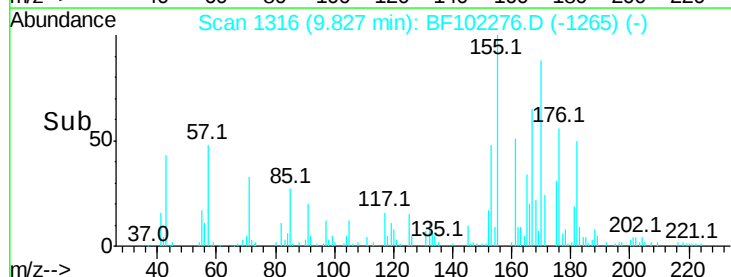
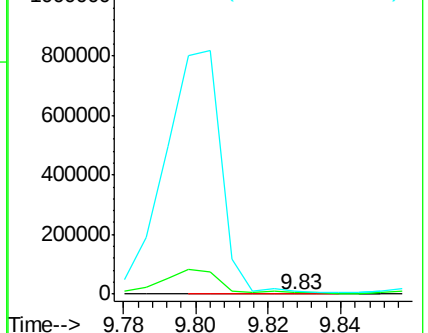
154 1065.0 184.0 276.0#

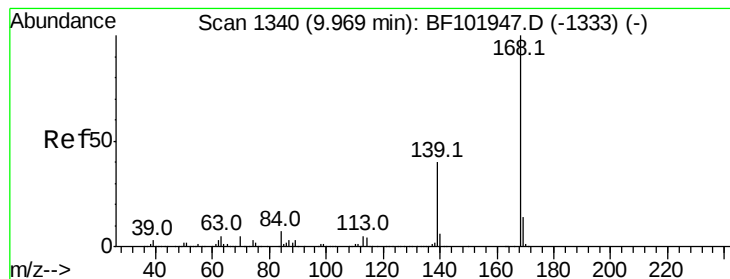


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzofuran

Concen: 20.022 ng

RT: 9.97 min Scan# 1340

Delta R.T. 0.00 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

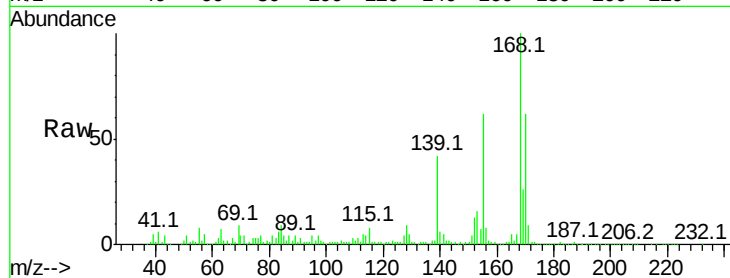
Tot Ion:168 Resp: 474858

Ion Ratio Lower Upper

168 100

139 41.7 30.1 45.1

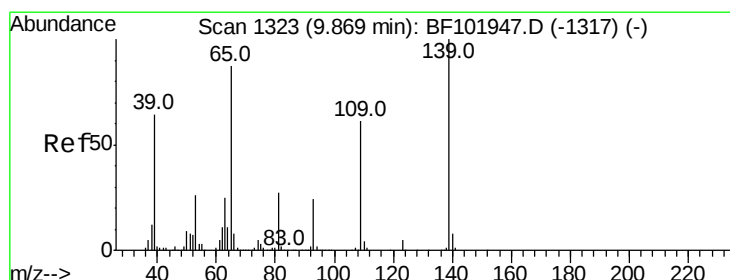
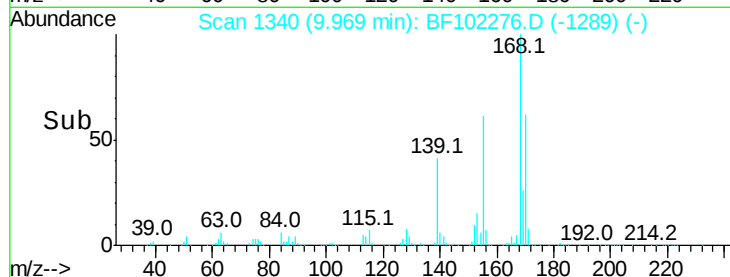
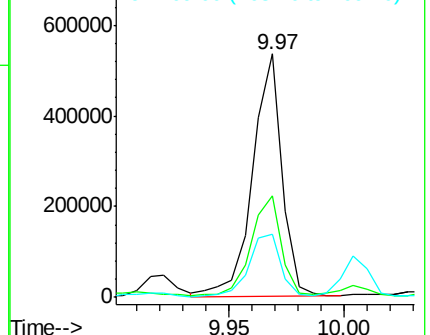
169 25.7 10.9 16.3#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 2.692 ng

RT: 9.91 min Scan# 1330

Delta R.T. 0.03 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

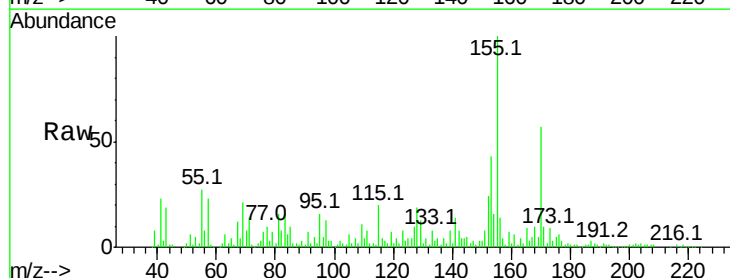
Tgt Ion:139 Resp: 10619

Ion Ratio Lower Upper

139 100

109 133.7 48.4 88.4#

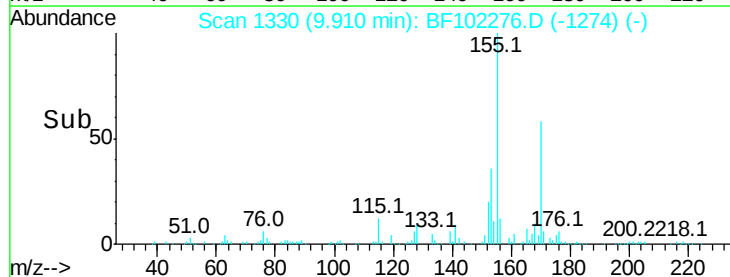
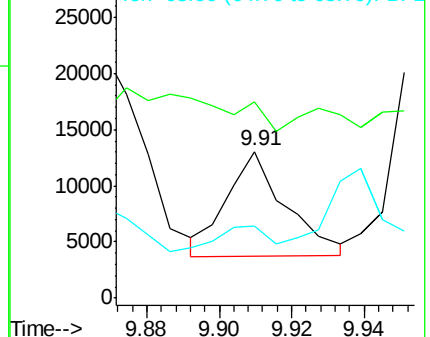
65 49.5 72.6 112.6#

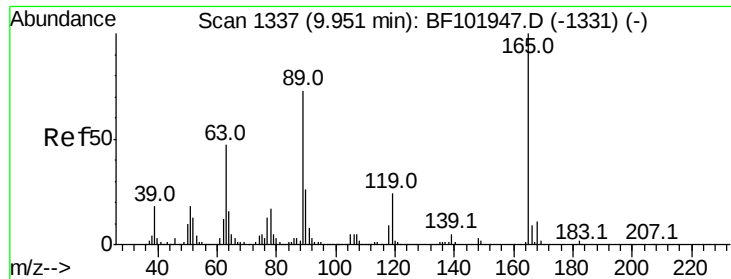


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

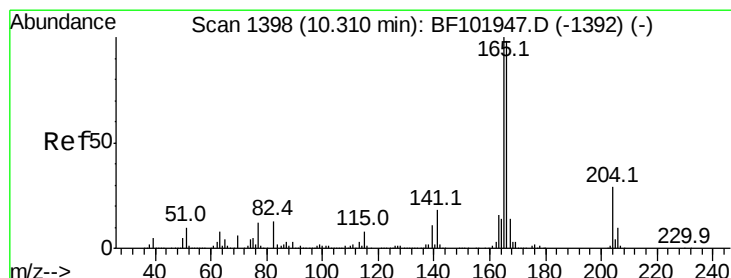
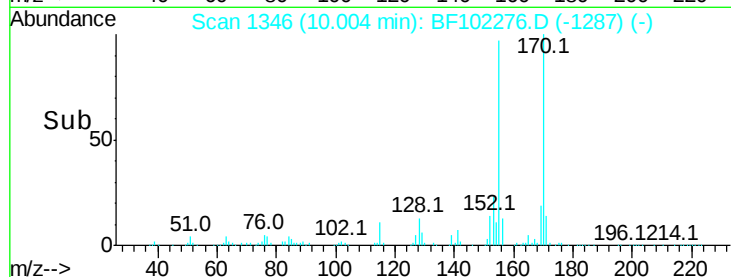
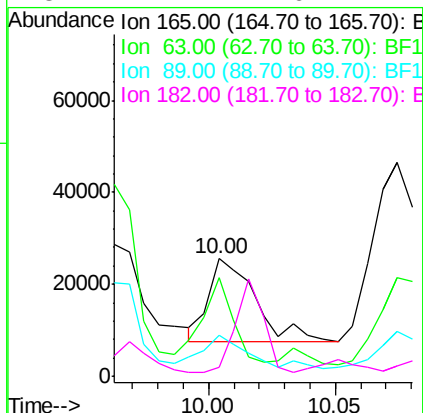
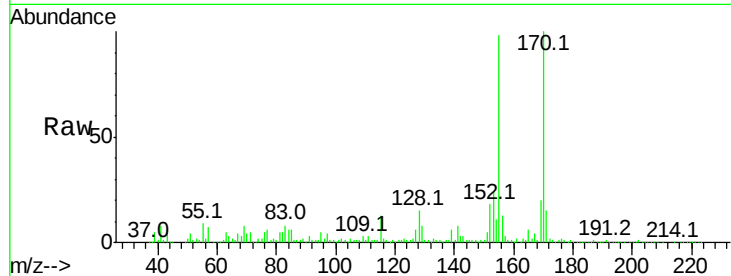




#56
2,4-Dinitrotoluene
Concen: 4.348 ng
RT: 10.00 min Scan# 1346
Delta R.T. 0.05 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

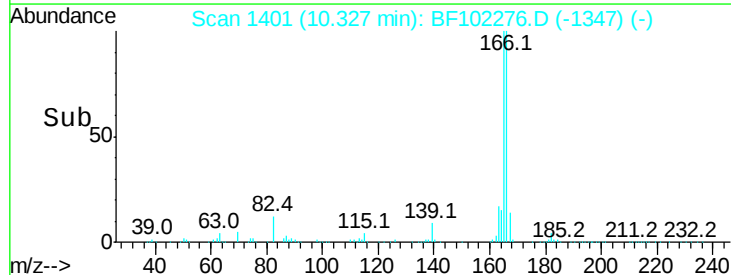
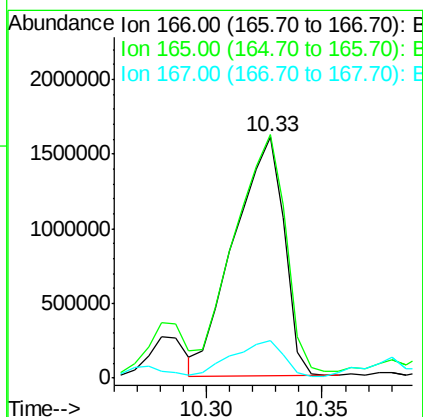
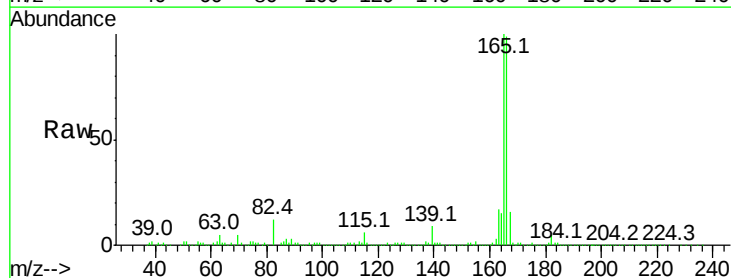
Instrument :
BNA_F
ClientSampled :

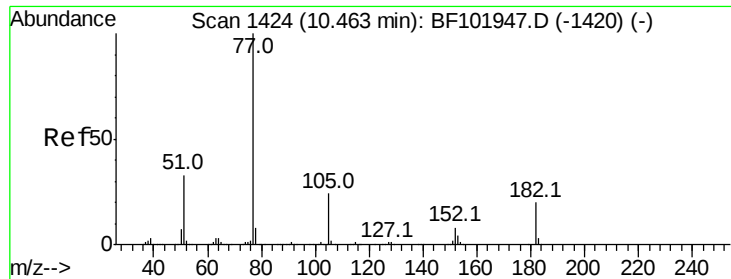
Tot Ion:165 Resp: 22855
Ion Ratio Lower Upper
165 100
63 83.8 36.4 54.6#
89 35.4 57.8 86.6#
182 7.7 1.6 2.4#



#57
Fluorene
Concen: 146.145 ng
RT: 10.33 min Scan# 1401
Delta R.T. 0.02 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Tgt Ion:166 Resp: 2396077
Ion Ratio Lower Upper
166 100
165 100.9 79.8 119.8
167 15.8 10.6 16.0

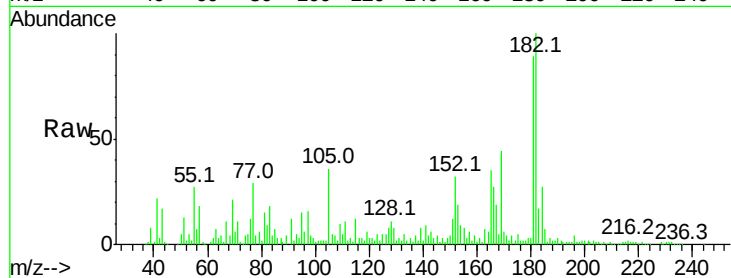




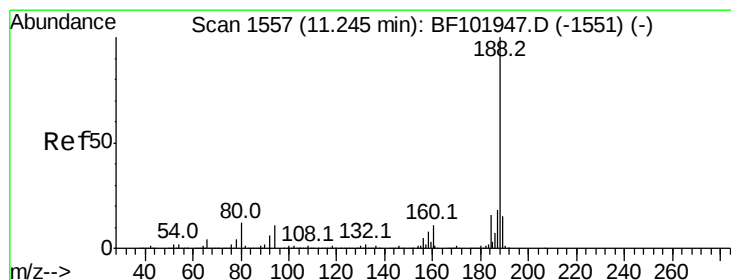
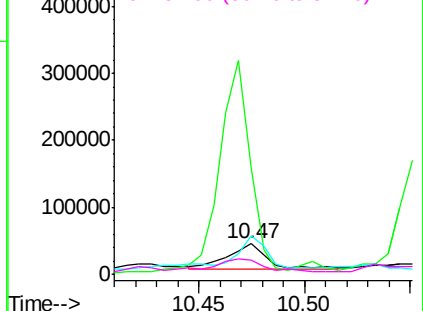
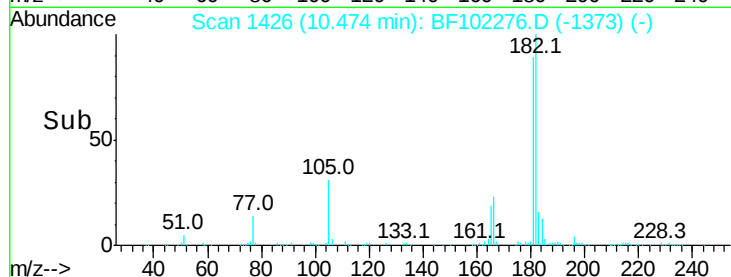
#62
Azobenzene
Concen: 2.331 ng
RT: 10.47 min Scan# 1426
Delta R.T. 0.01 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Instrument :
BNA_F
ClientSampled :

Tot Ion: 77 Resp: 48439
Ion Ratio Lower Upper
77 100
182 347.1 1.7 41.7#
105 125.8 3.0 43.0#
51 44.6 9.9 49.9

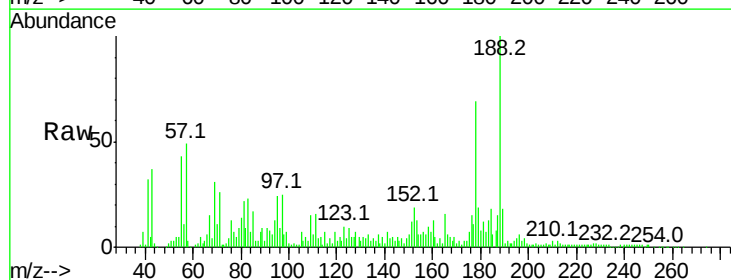


Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 182.00 (181.70 to 182.70): BF1
Ion 105.00 (104.70 to 105.70): BF1
Ion 51.00 (50.70 to 51.70): BF1

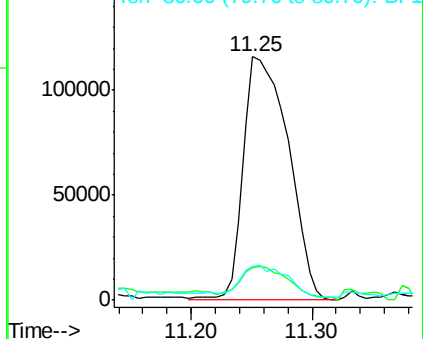
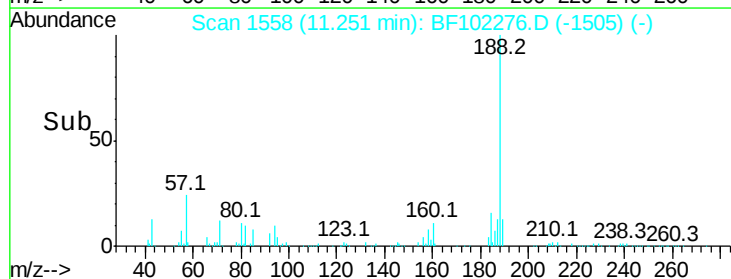


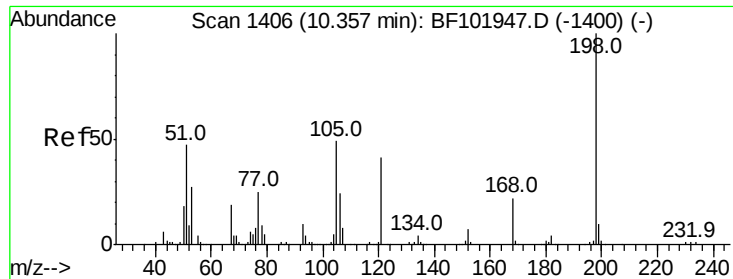
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. 0.01 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Tgt Ion: 188 Resp: 299353
Ion Ratio Lower Upper
188 100
94 13.4 8.5 12.7#
80 13.6 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): BF1
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1





#64

4,6-Dinitro-2-methylphenol

Concen: 6.163 ng

RT: 10.38 min Scan# 1410

Delta R.T. 0.02 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

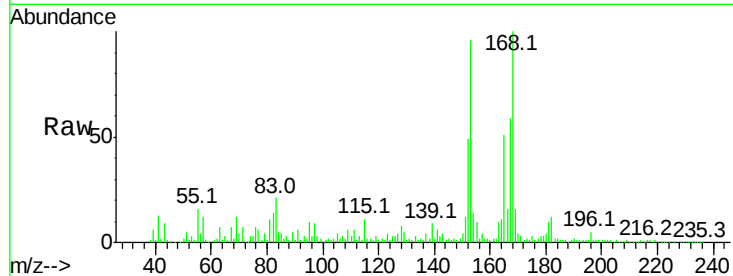
Tot Ion:198 Resp: 924

Ion Ratio Lower Upper

198 100

51 785.9 37.7 77.7#

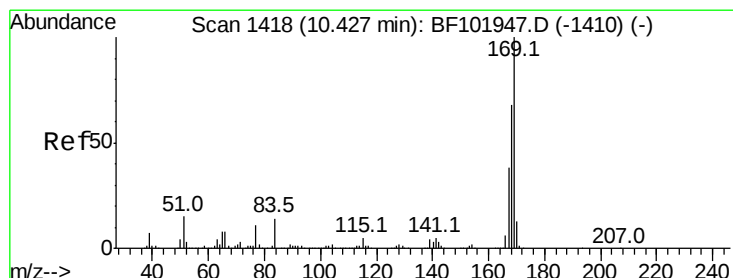
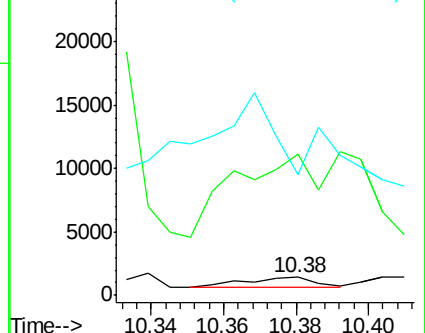
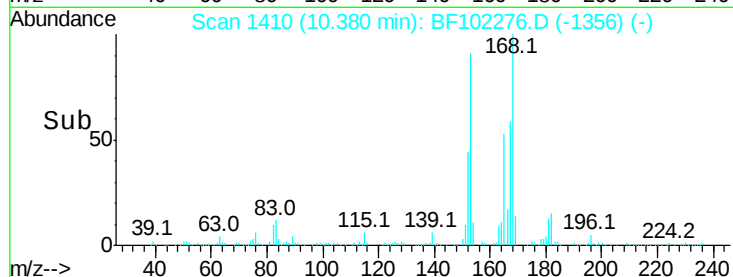
105 671.9 36.3 76.3#



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



#65

n-Nitrosodiphenylamine

Concen: 10.554 ng

RT: 10.42 min Scan# 1417

Delta R.T. 0.00 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

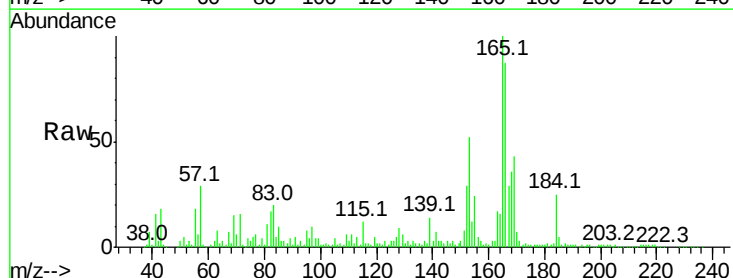
Tgt Ion:169 Resp: 118309

Ion Ratio Lower Upper

169 100

168 84.2 54.4 81.6#

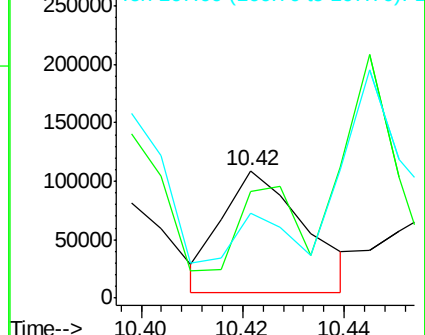
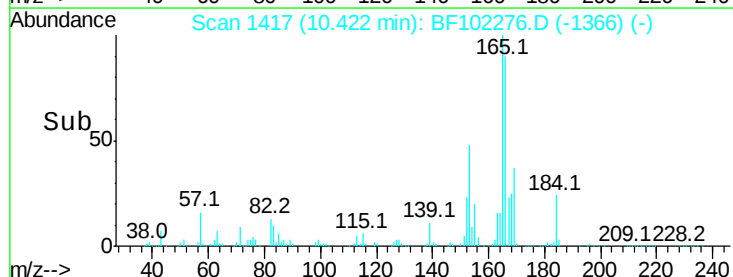
167 66.8 29.8 44.6#

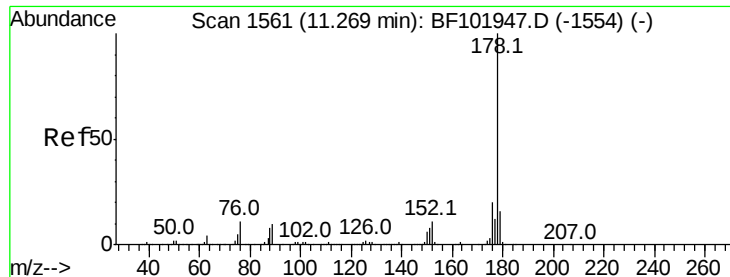


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 479.504 ng

RT: 11.30 min Scan# 1567

Delta R.T. 0.04 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

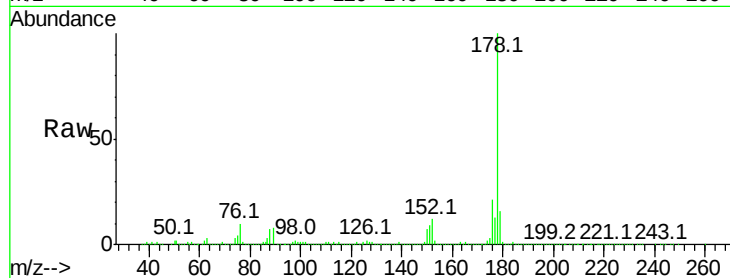
Tot Ion:178 Resp: 8384702

Ion Ratio Lower Upper

178 100

176 20.8 15.8 23.8

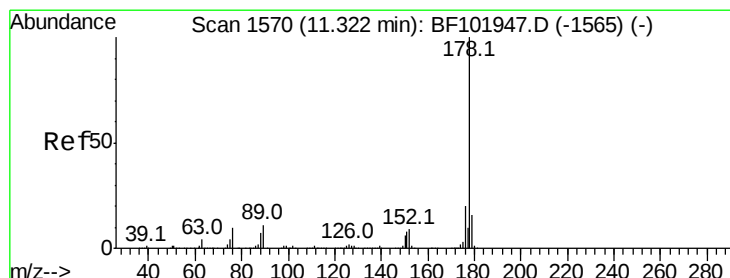
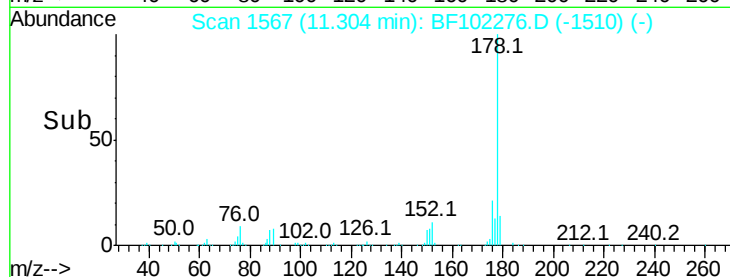
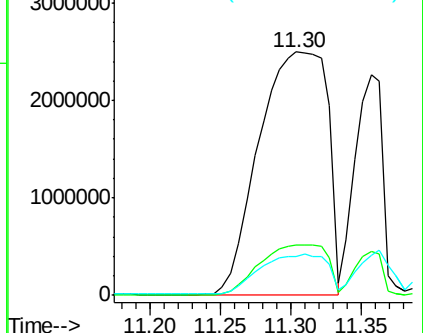
179 16.2 13.0 19.6



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



#71

Anthracene

Concen: 168.190 ng

RT: 11.36 min Scan# 1576

Delta R.T. 0.04 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

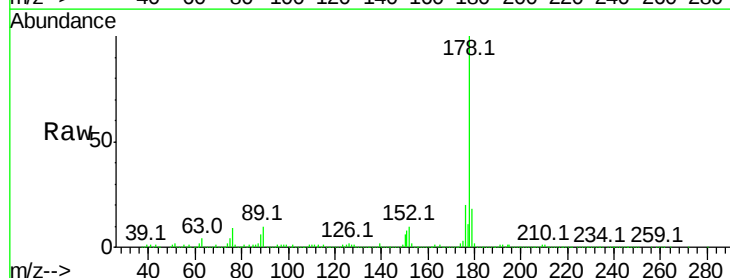
Tgt Ion:178 Resp: 2982733

Ion Ratio Lower Upper

178 100

176 19.9 15.4 23.2

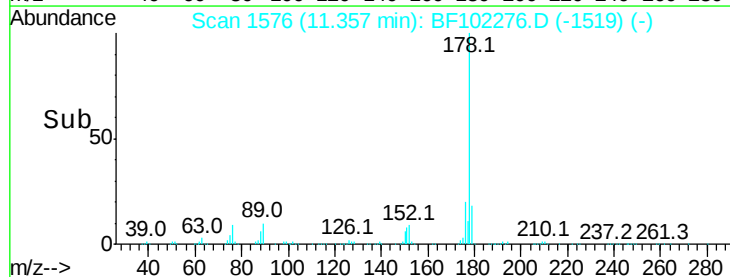
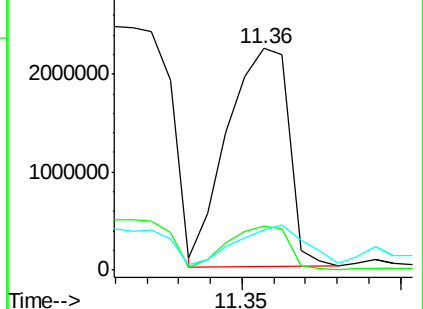
179 18.2 12.6 19.0

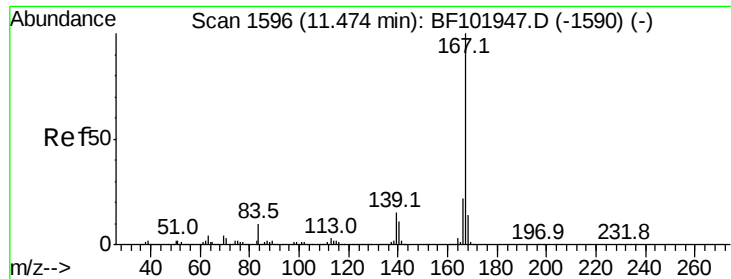


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

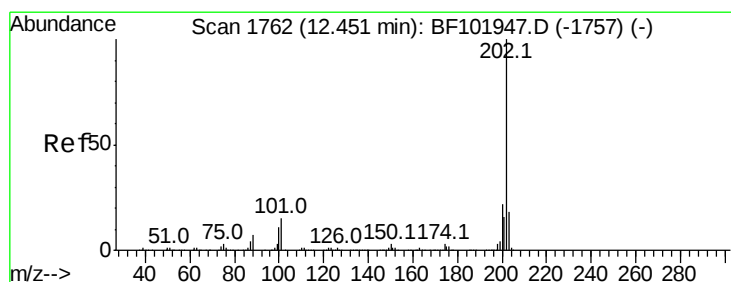
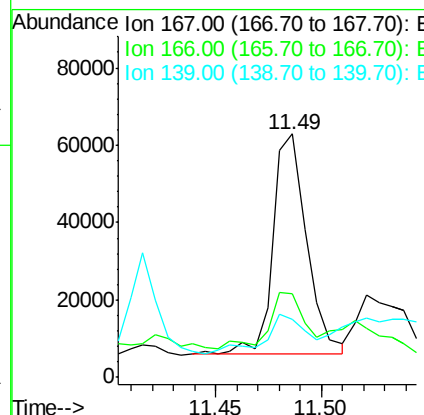
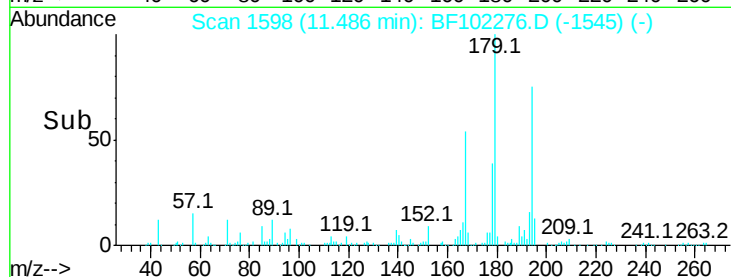
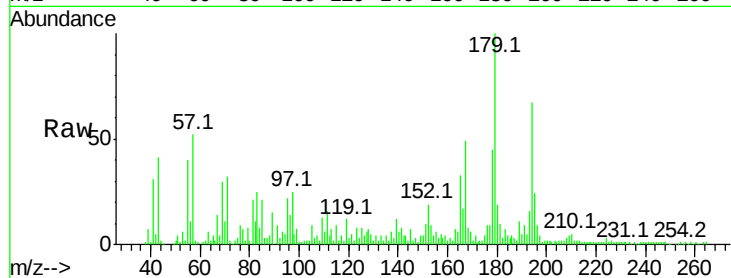




#72
 Carbazole
 Concen: 3.619 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. 0.01 min
 Lab File: BF102276.D
 Acq: 20 Jan 2018 19:55

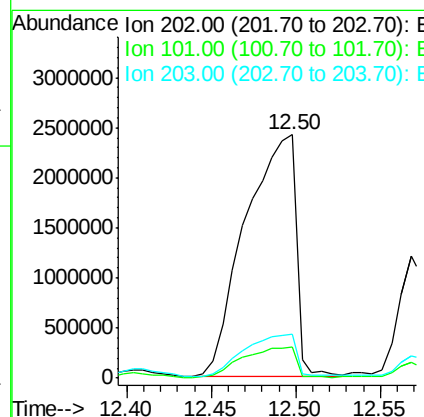
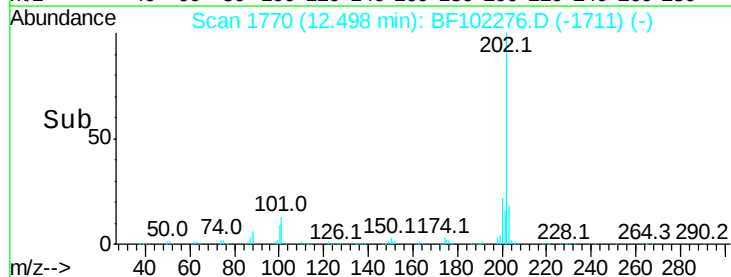
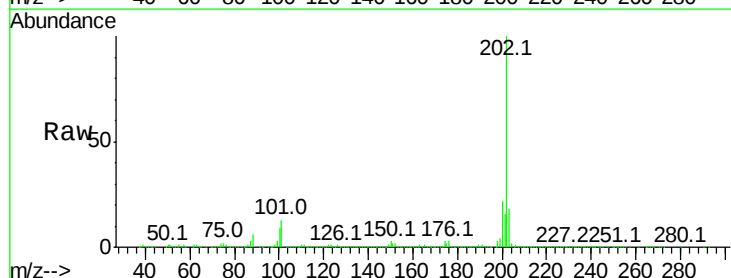
Instrument :
 BNA_F
 ClientSampled :

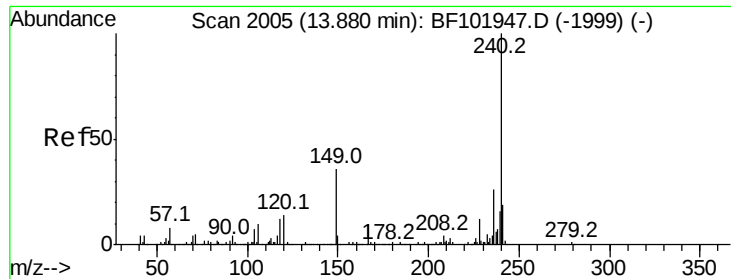
Tot Ion:167 Resp: 63089
 Ion Ratio Lower Upper
 167 100
 166 34.1 17.6 26.4#
 139 23.8 10.9 16.3#



#74
 Fluoranthene
 Concen: 291.036 ng
 RT: 12.50 min Scan# 1770
 Delta R.T. 0.05 min
 Lab File: BF102276.D
 Acq: 20 Jan 2018 19:55

Tgt Ion:202 Resp: 5007014
 Ion Ratio Lower Upper
 202 100
 101 12.7 0.0 34.1
 203 18.0 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2009

Delta R.T. 0.03 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

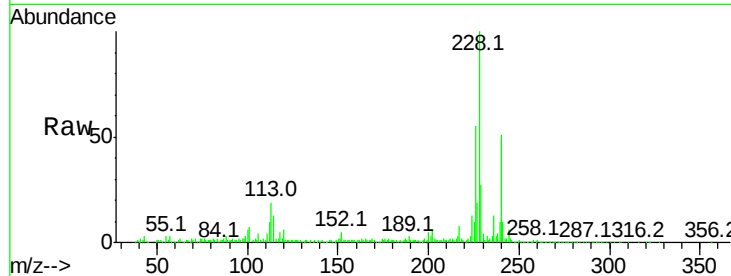
Tot Ion:240 Resp: 228768

Ion Ratio Lower Upper

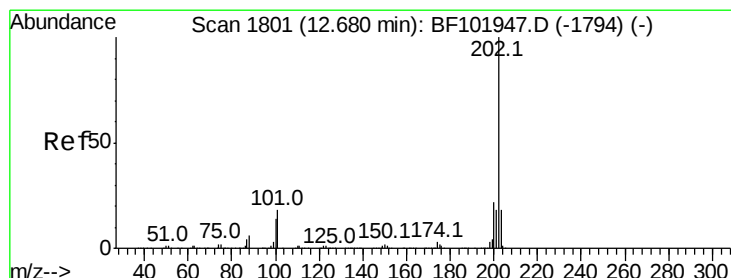
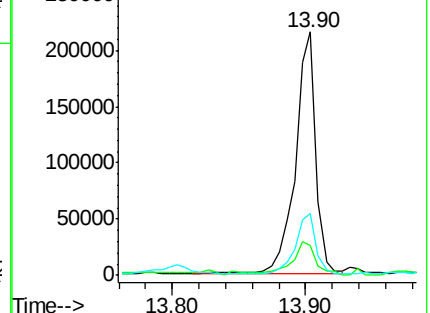
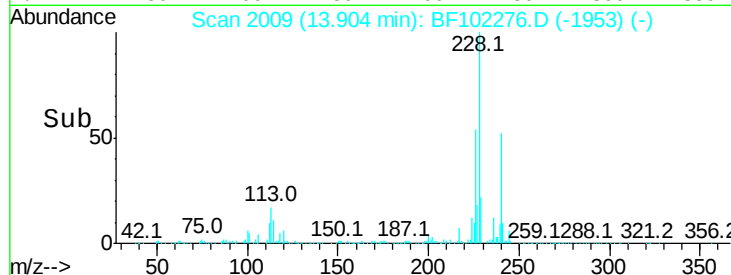
240 100

120 12.5 9.5 14.3

236 25.4 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



#77

Pyrene

Concen: 313.528 ng

RT: 12.73 min Scan# 1810

Delta R.T. 0.05 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

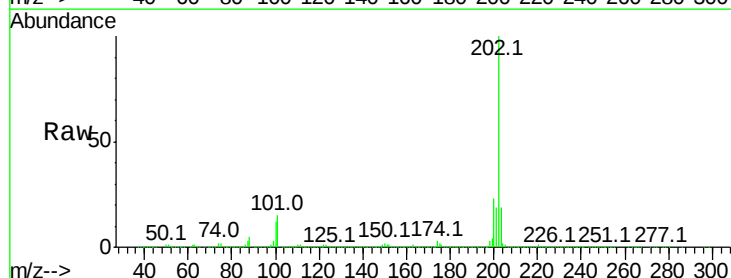
Tgt Ion:202 Resp: 6340050

Ion Ratio Lower Upper

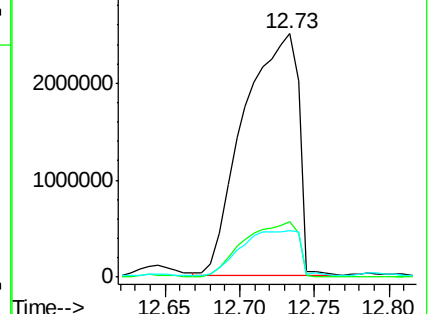
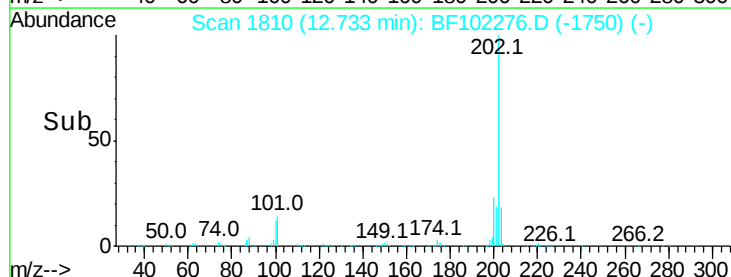
202 100

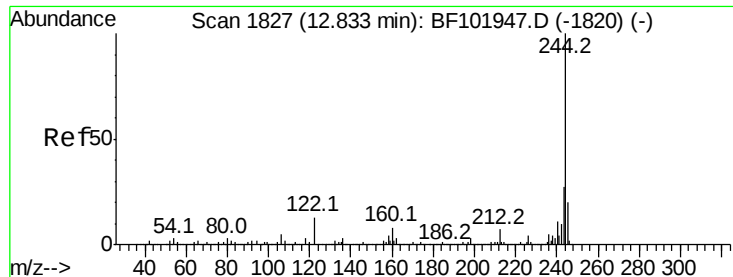
200 22.6 17.4 26.2

203 19.2 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 42.679 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

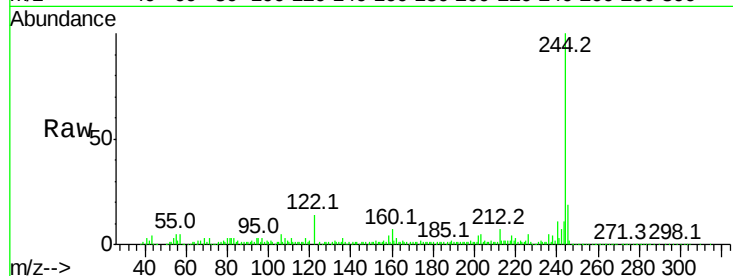
Tot Ion:244 Resp: 470253

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

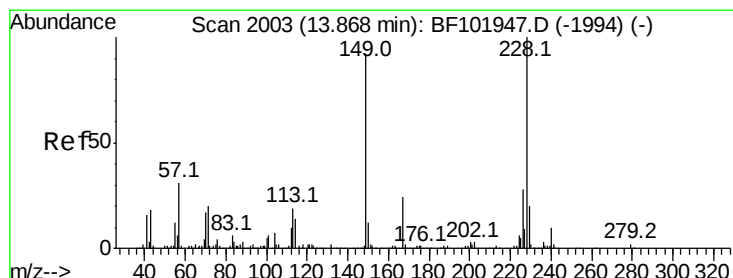
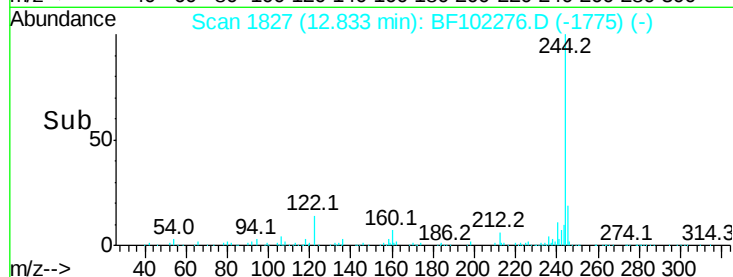
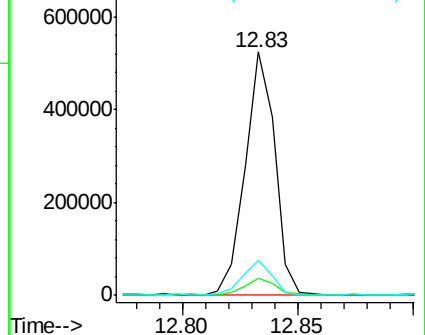
122 14.1 11.0 16.4



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: 155.403 ng

RT: 13.89 min Scan# 2007

Delta R.T. 0.02 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

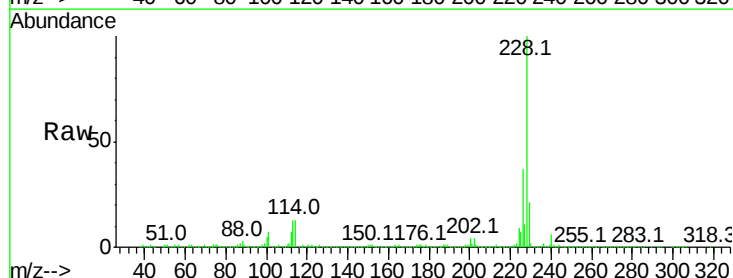
Tgt Ion:228 Resp: 2268265

Ion Ratio Lower Upper

228 100

226 36.6 22.6 33.8#

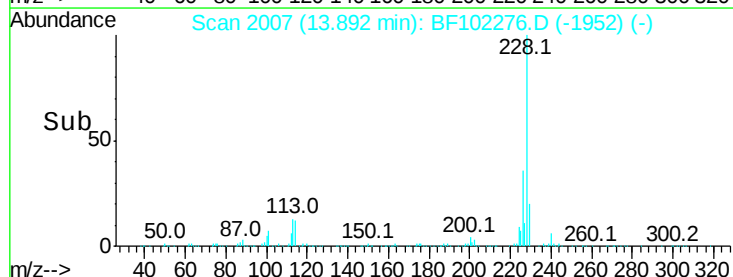
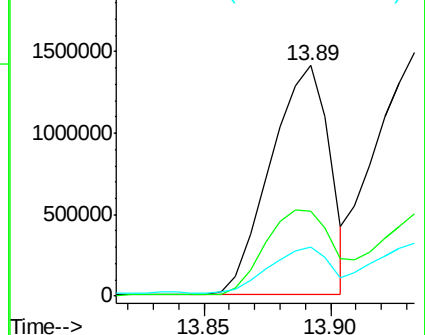
229 21.3 15.8 23.6

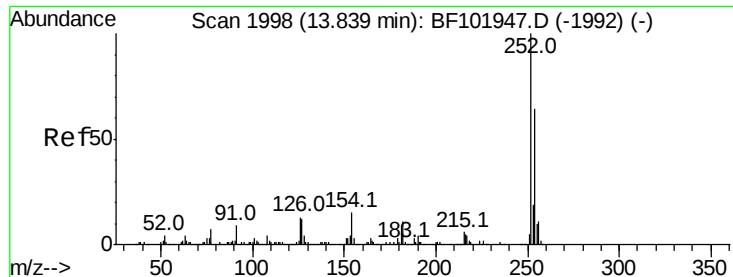


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#81

3,3'-Dichlorobenzidine

Concen: 7.515 ng

RT: 13.93 min Scan# 2013

Delta R.T. 0.09 min

Lab File: BF102276.D

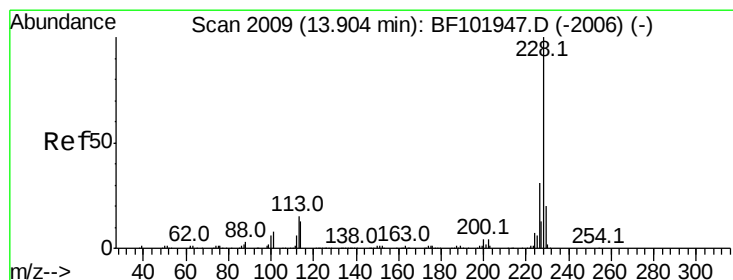
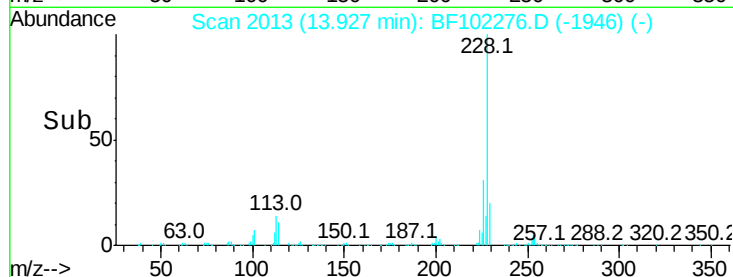
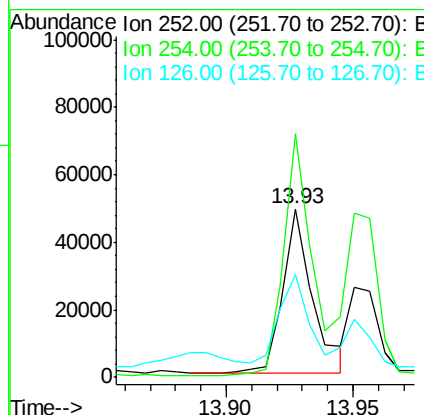
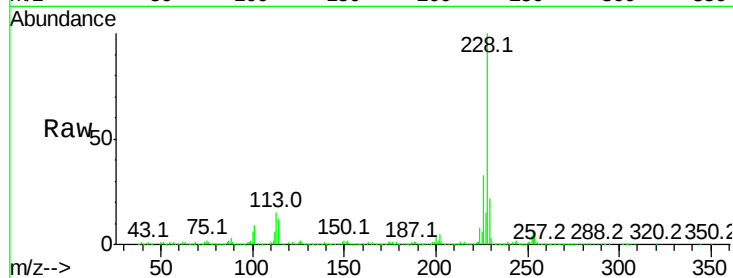
Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampled :

Tot Ion:252	Resp:	40617
Ion Ratio	Lower	Upper
252	100	
254	144.4	50.4 75.6#
126	61.3	11.3 16.9#



#82

Chrysene

Concen: 120.897 ng

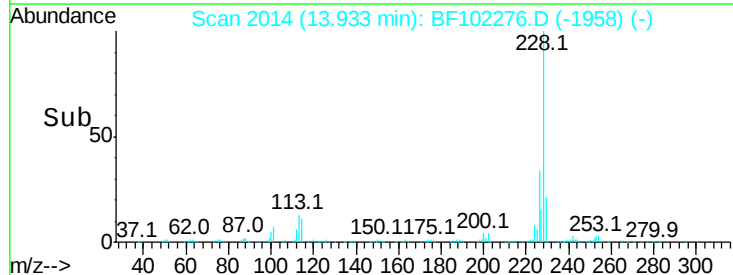
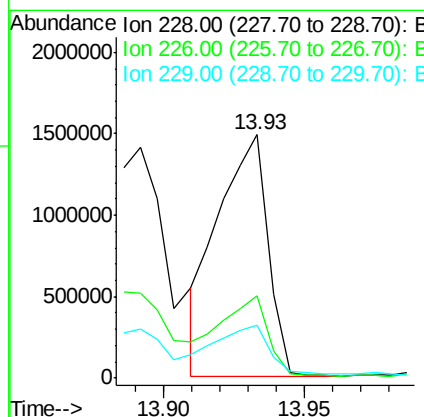
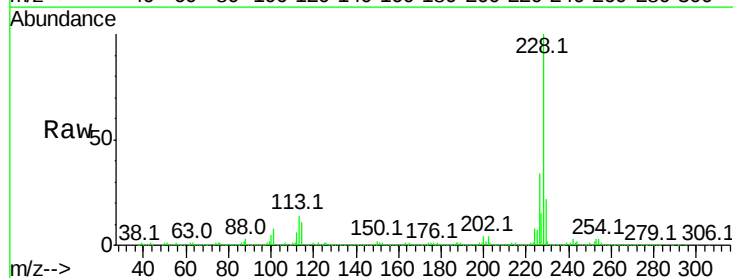
RT: 13.93 min Scan# 2014

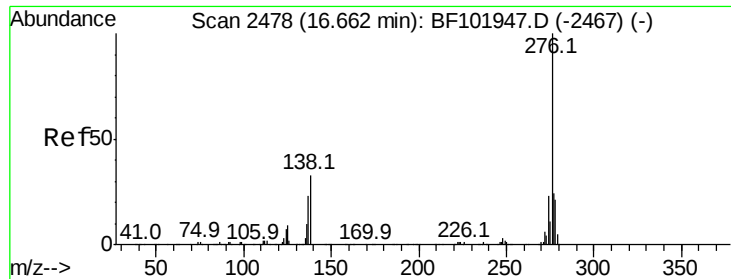
Delta R.T. 0.03 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Tgt Ion:228	Resp:	1840017
Ion Ratio	Lower	Upper
228	100	
226	34.0	25.0 37.6
229	21.8	16.2 24.4

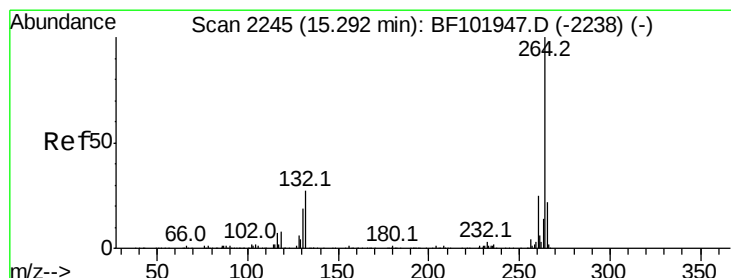
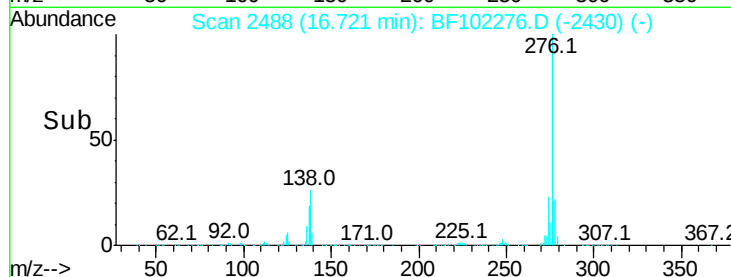
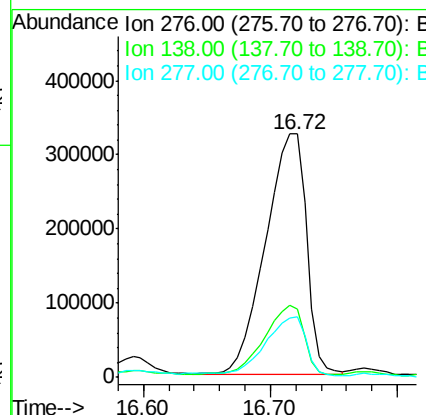
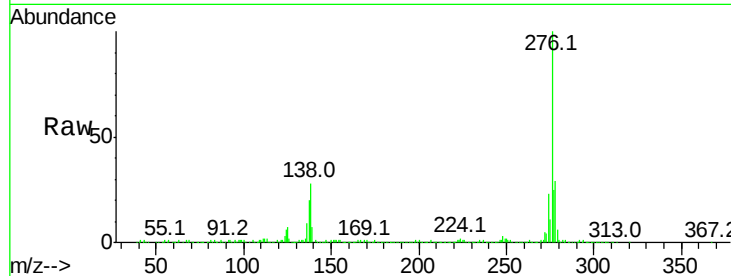




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 66.475 ng
 RT: 16.72 min Scan# 2488
 Delta R.T. 0.04 min
 Lab File: BF102276.D
 Acq: 20 Jan 2018 19:55

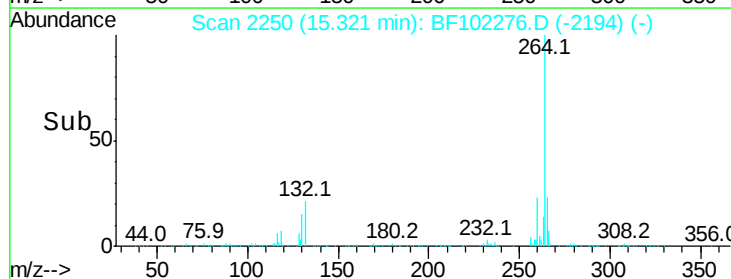
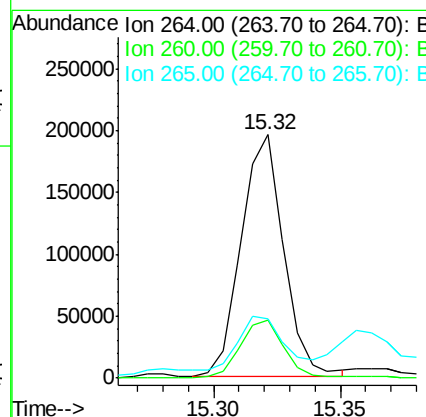
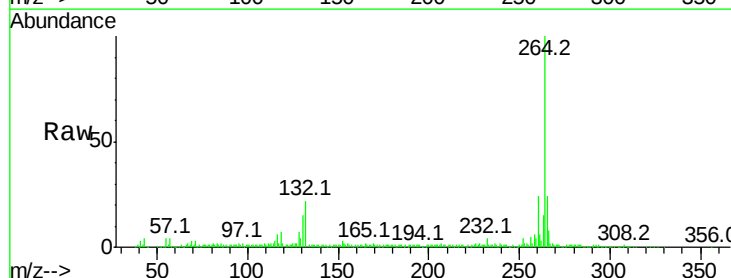
Instrument :
 BNA_F
 ClientSampleId :

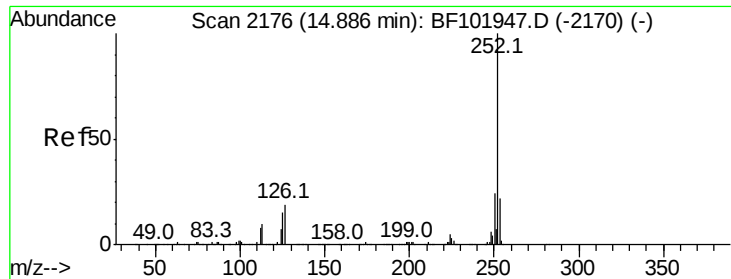
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.7	25.0	37.6
277	25.2	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.32 min Scan# 2250
 Delta R.T. 0.03 min
 Lab File: BF102276.D
 Acq: 20 Jan 2018 19:55

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	24.5	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 159.179 ng

RT: 14.92 min Scan# 2182

Delta R.T. 0.03 min

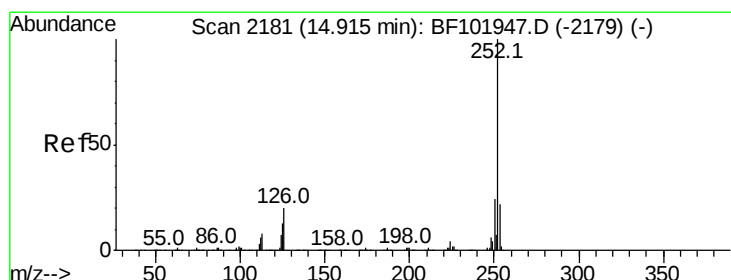
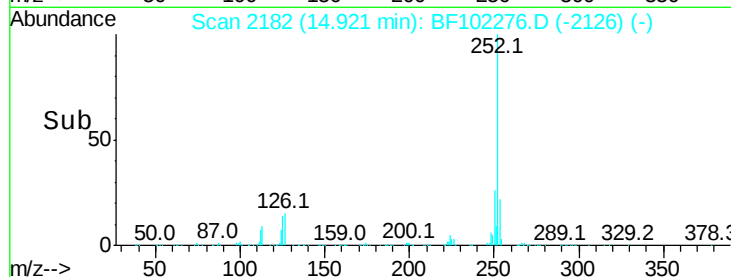
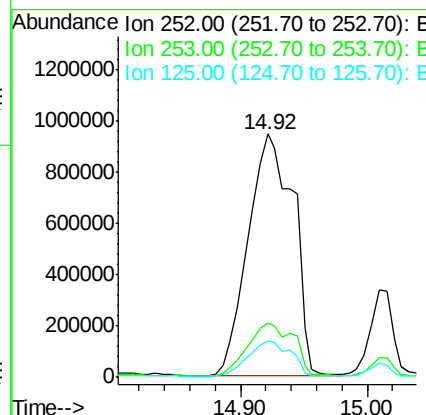
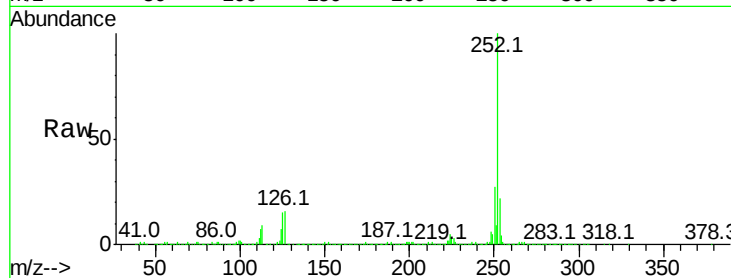
Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 2349448

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	14.6	9.0	13.6#



#88

Benzo(k)fluoranthene

Concen: 165.009 ng

RT: 14.92 min Scan# 2182

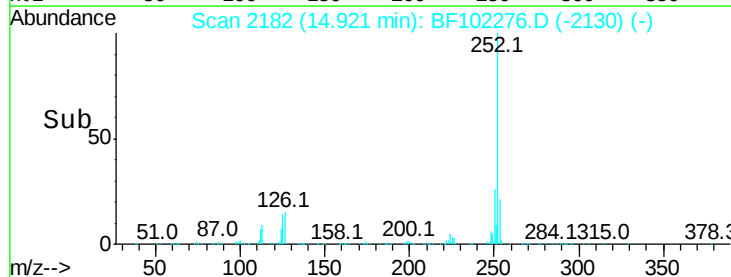
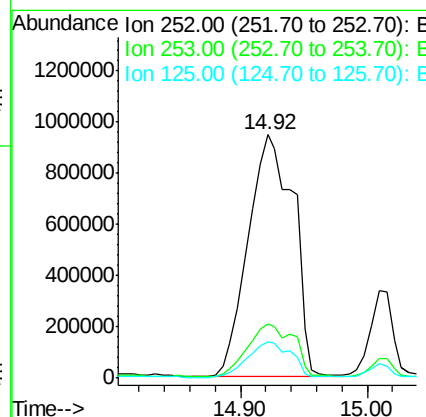
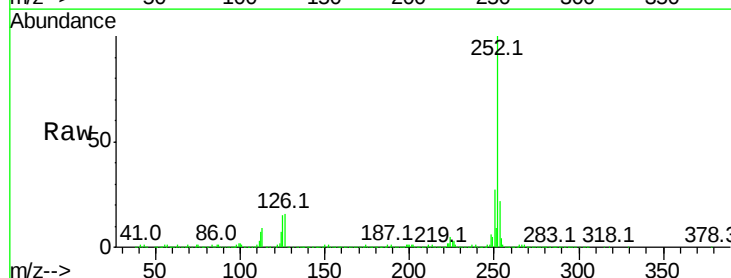
Delta R.T. 0.01 min

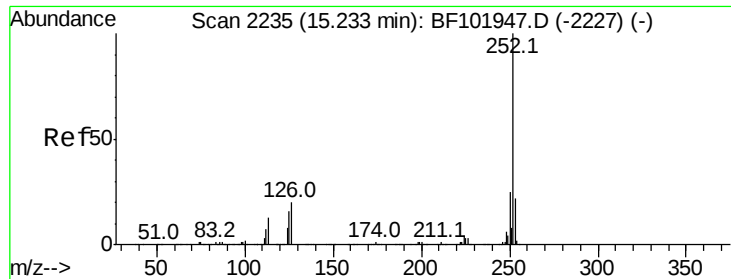
Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Tgt Ion:252 Resp: 2349448

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	14.6	10.2	15.2

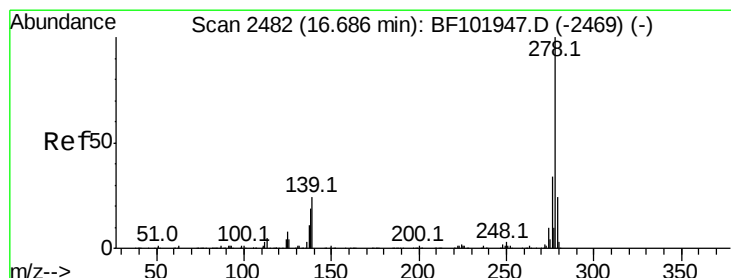
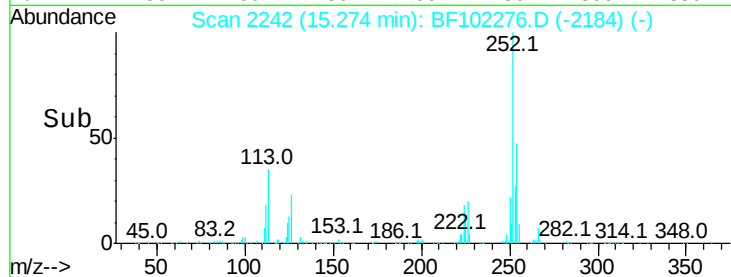
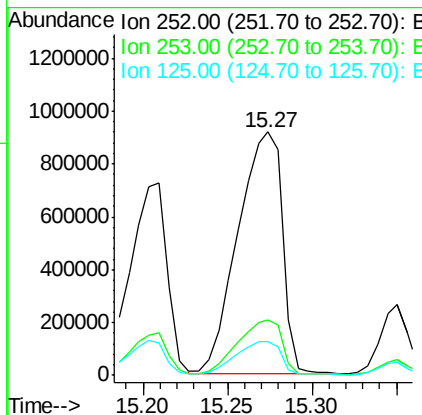
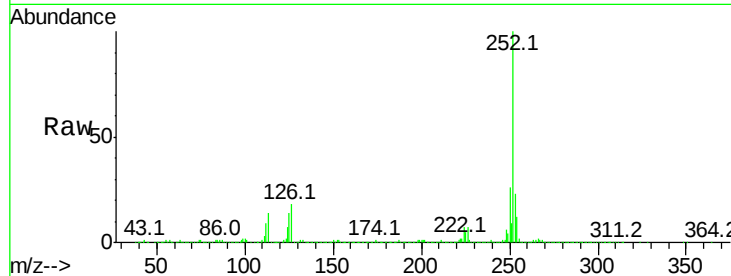




#89
Benzo(a)pyrene
Concen: 125.720 ng
RT: 15.27 min Scan# 2242
Delta R.T. 0.04 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

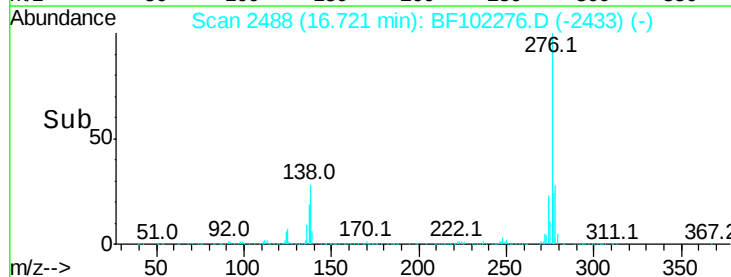
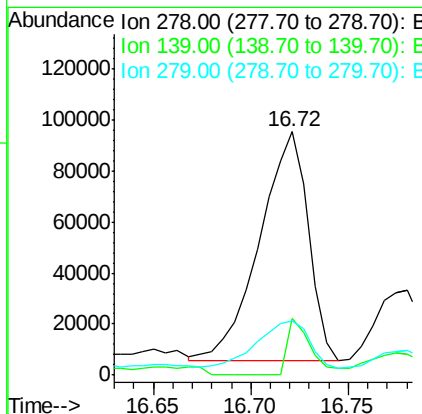
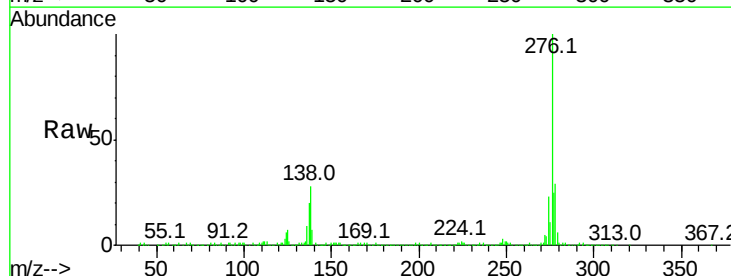
Instrument :
BNA_F
ClientSampleId :

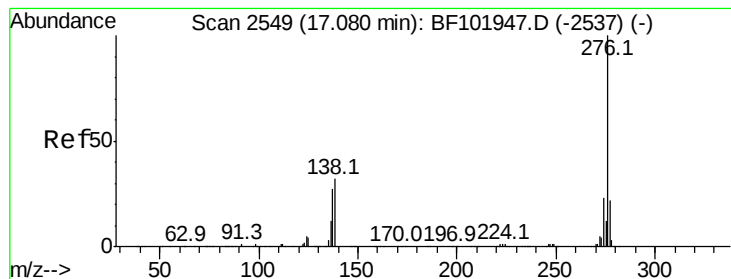
Tot Ion:252 Resp: 1669772
Ion Ratio Lower Upper
252 100
253 22.6 17.1 25.7
125 13.9 9.8 14.6



#90
Dibenzo(a,h)anthracene
Concen: 14.585 ng
RT: 16.72 min Scan# 2488
Delta R.T. 0.02 min
Lab File: BF102276.D
Acq: 20 Jan 2018 19:55

Tgt Ion:278 Resp: 154589
Ion Ratio Lower Upper
278 100
139 23.5 15.9 23.9
279 22.1 19.0 28.4





#91

Benzo(a,h,i)perylene

Concen: 76.540 ng

RT: 17.14 min Scan# 2560

Delta R.T. 0.05 min

Lab File: BF102276.D

Acq: 20 Jan 2018 19:55

Instrument :

BNA_F

ClientSampleId :

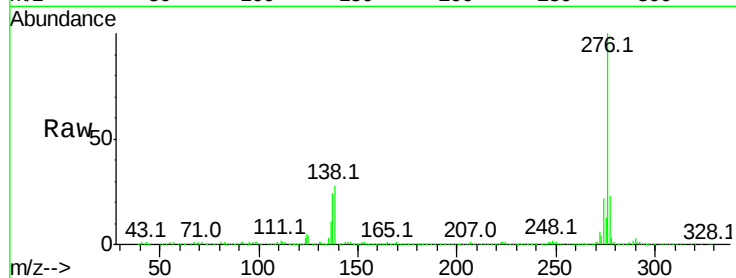
Tot Ion: 276 Resp: 817201

Ion Ratio Lower Upper

276 100

277 23.4 17.9 26.9

138 28.5 21.8 32.8



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

