

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120117\
 Data File : BF101065.D
 Acq On : 1 Dec 2017 16:11
 Operator : SJ/JU
 Sample : I6300-07 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-112917

Quant Time: Dec 01 21:50:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 15:52:19 2017
 Response via : Initial Calibration

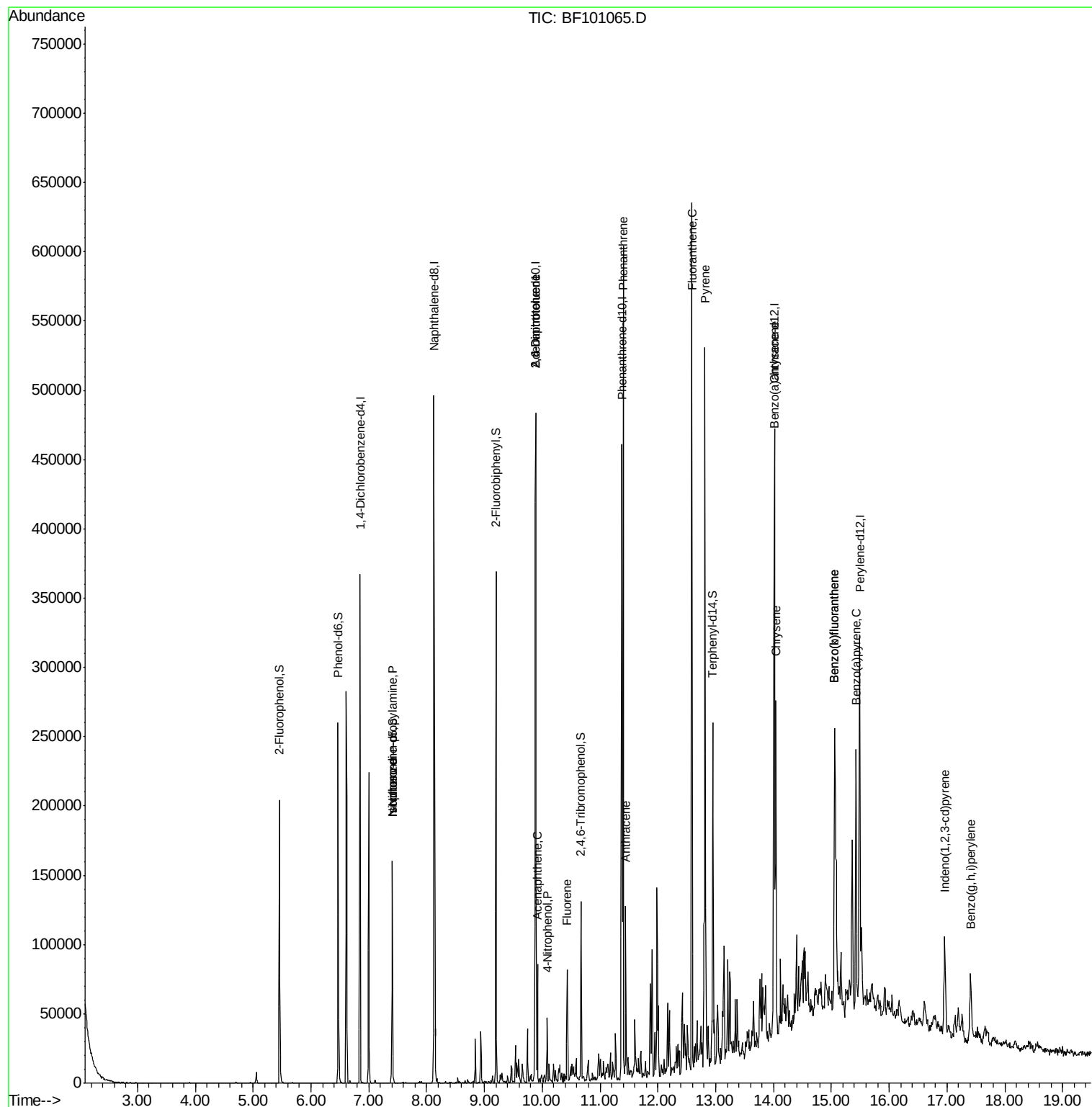
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	51207	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	196544	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	91534	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	162094	20.00	ng	0.00
75) Chrysene-d12	14.02	240	108806	20.00	ng	0.00
86) Perylene-d12	15.49	264	119951	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	63054	20.35	ng	0.00
7) Phenol-d6	6.47	99	76626	20.37	ng	-0.01
23) Nitrobenzene-d5	7.40	82	44786	13.59	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	13980	12.71	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	104409	15.61	ng	-0.01
78) Terphenyl-d14	12.95	244	72745	14.62	ng	-0.01
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.40	70	5981	2.361	ng	# 79
25) Isophorone	7.40	82	44785	7.958	ng	# 64
50) 2,6-Dinitrotoluene	9.88	165	12109	7.788	ng	# 24
51) Acenaphthene	9.92	154	16040	2.737	ng	# 98
55) 4-Nitrophenol	10.09	139	5738	4.866	ng	# 9
56) 2,4-Dinitrotoluene	9.88	165	12109	5.811	ng	# 21
57) Fluorene	10.43	166	23797	3.466	ng	# 97
70) Phenanthrene	11.40	178	209816	23.505	ng	# 98
71) Anthracene	11.45	178	47925	5.305	ng	# 98
74) Fluoranthene	12.59	202	243455	24.604	ng	# 96
77) Pyrene	12.82	202	220770	29.405	ng	# 99
80) Benzo(a)anthracene	14.00	228	103845	15.116	ng	# 98
82) Chrysene	14.04	228	90477	14.181	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.96	276	42842	7.553	ng	# 89
87) Benzo(b)fluoranthene	15.06	252	157326	21.897	ng	# 98
88) Benzo(k)fluoranthene	15.06	252	157326	22.226	ng	# 97
89) Benzo(a)pyrene	15.43	252	87923	13.461	ng	# 95
91) Benzo(g,h,i)perylene	17.41	276	40719	7.503	ng	# 91

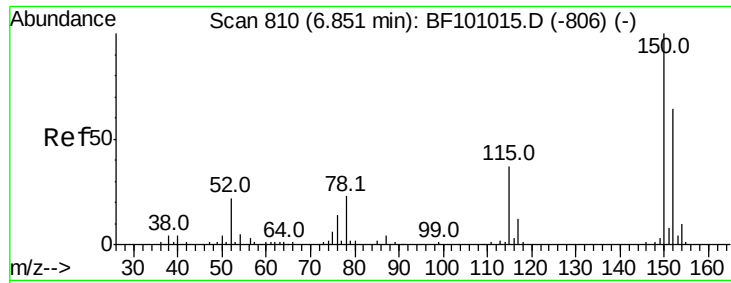
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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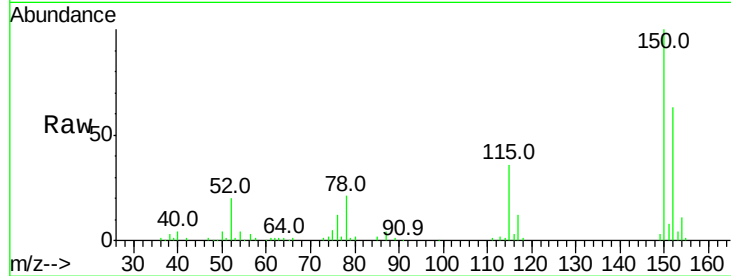


#1

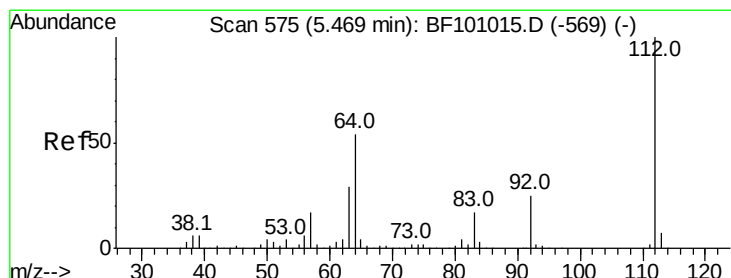
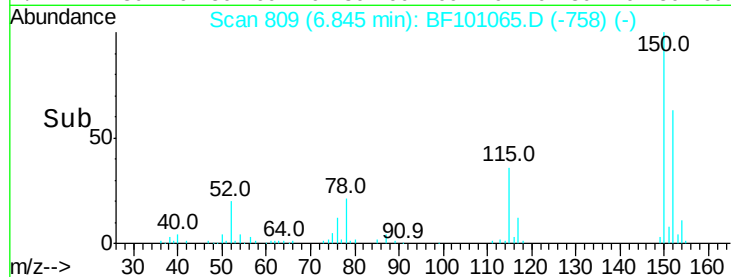
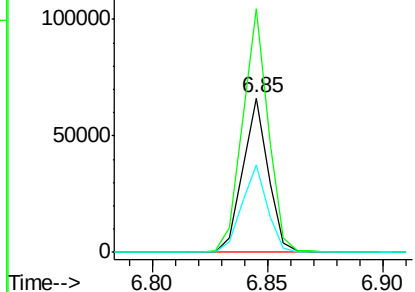
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 809
 Delta R.T. 0.00 min
 Lab File: BF101065.D
 Acq: 1 Dec 2017 16:11

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-112917

Tot Ion:152 Resp: 51207
 Ion Ratio Lower Upper
 152 100
 150 157.5 124.6 186.8
 115 56.6 50.1 75.1



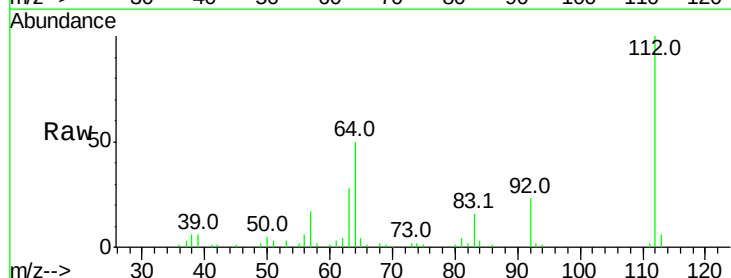
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



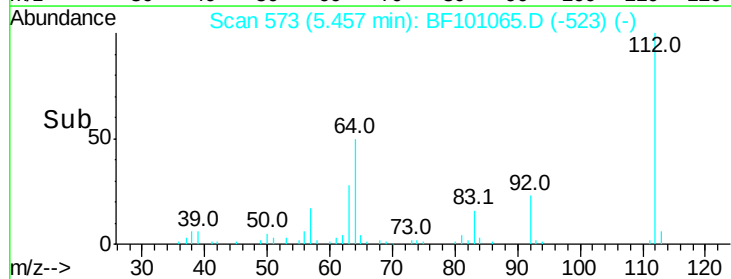
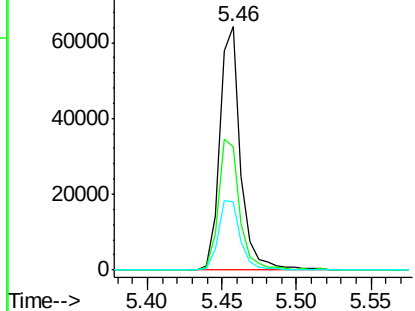
#5

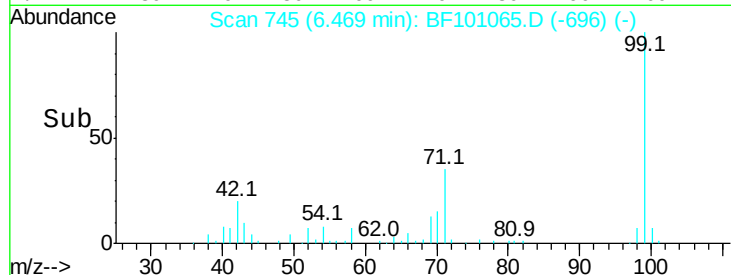
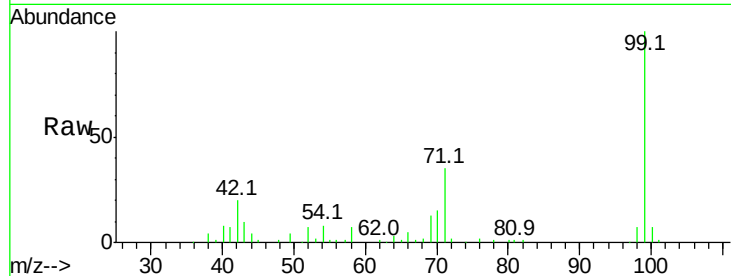
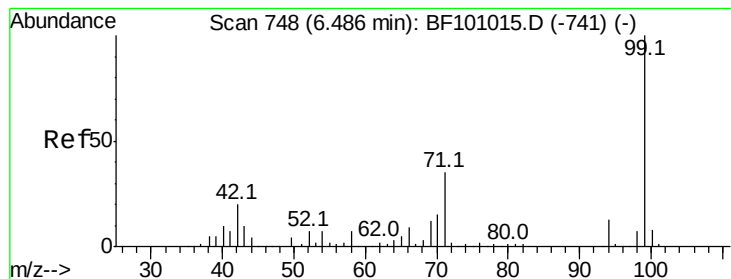
2-Fluorophenol
 Concen: 20.347 ng
 RT: 5.46 min Scan# 573
 Delta R.T. -0.01 min
 Lab File: BF101065.D
 Acq: 1 Dec 2017 16:11

Tgt Ion:112 Resp: 63054
 Ion Ratio Lower Upper
 112 100
 64 50.4 47.9 71.9
 63 28.1 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: 20.367 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

Instrument :

BNA_F

ClientSampleId :

OR-02-112917

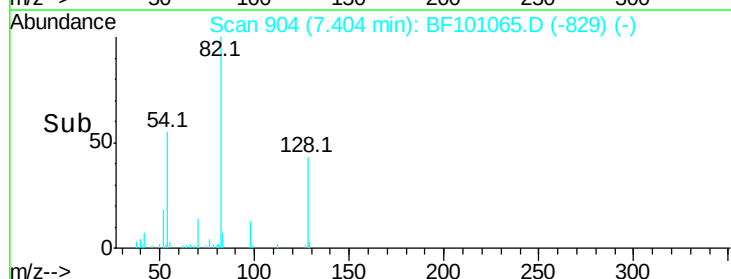
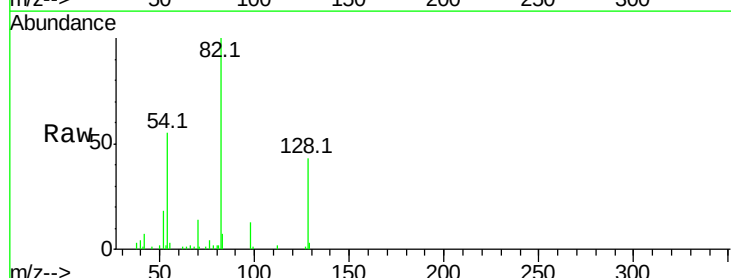
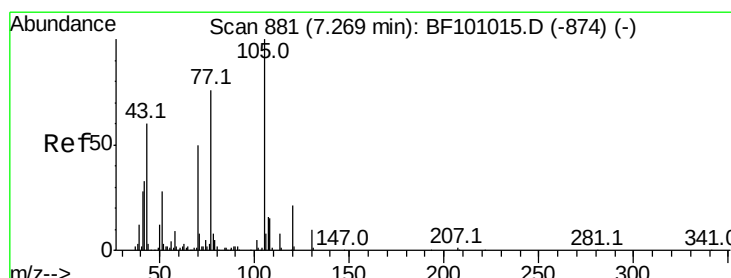
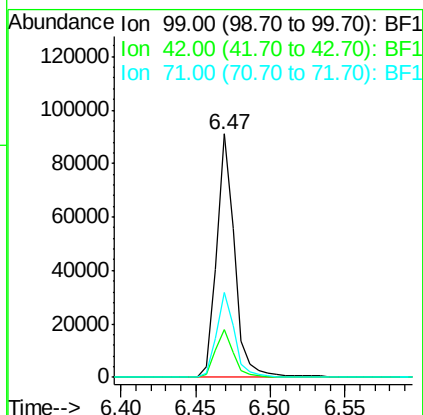
Tot Ion: 99 Resp: 76626

Ion Ratio Lower Upper

99 100

42 19.7 14.5 21.7

71 34.7 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.361 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

Tgt Ion: 70 Resp: 5981

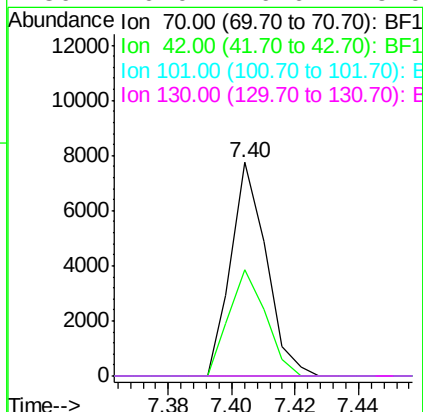
Ion Ratio Lower Upper

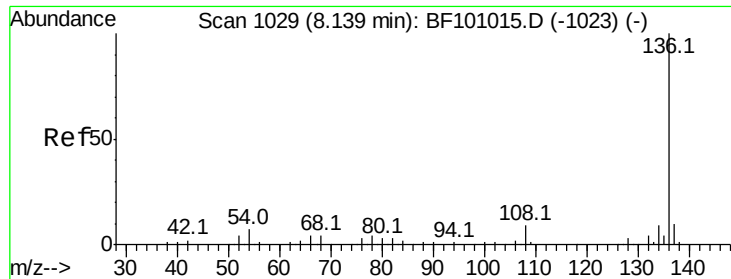
70 100

42 50.0 47.5 71.3

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

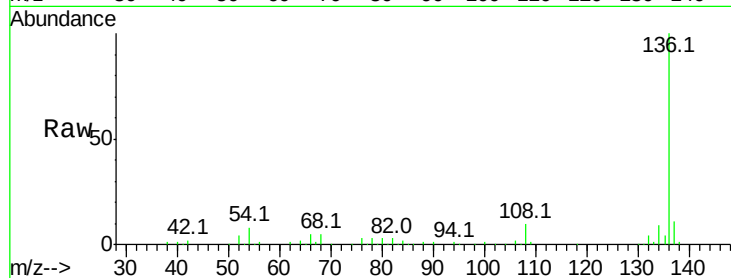




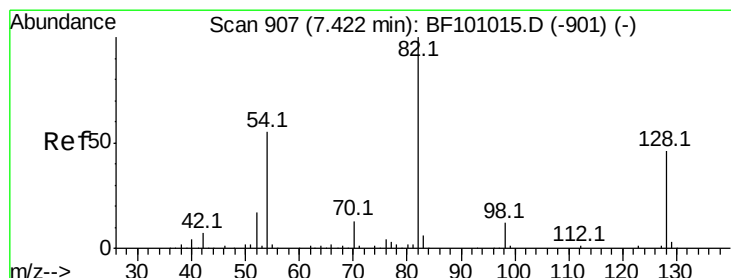
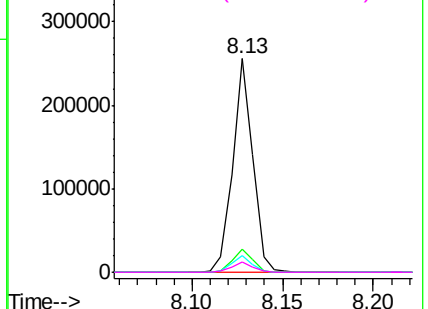
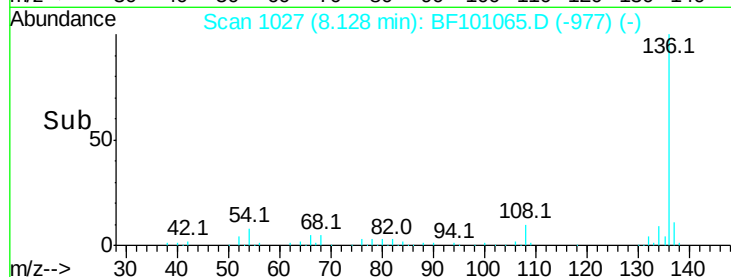
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

Instrument :
BNA_F
ClientSampleId :
OR-02-112917

Tot Ion:	136	Resp:	196544
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.6	6.6	9.8
68	4.8	5.0	7.4#

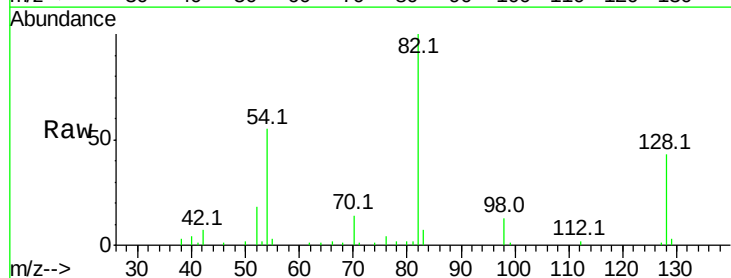


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

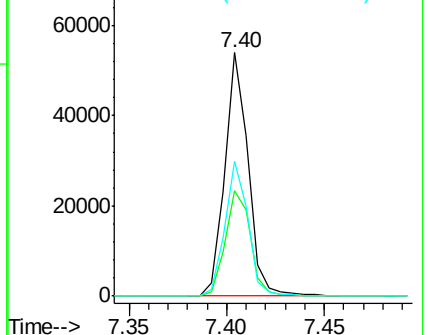
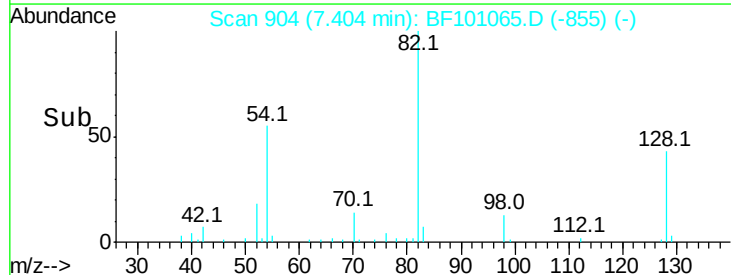


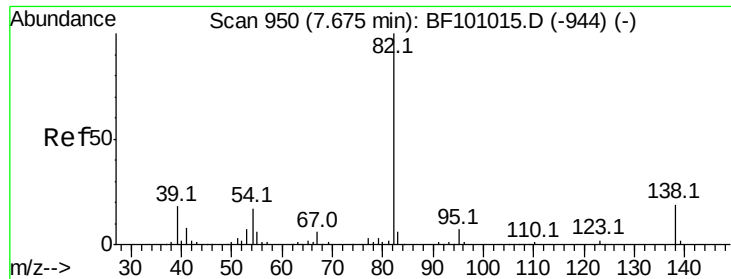
#23
Nitrobenzene-d5
Concen: 13.593 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

Tgt Ion:	82	Resp:	44786
Ion	Ratio	Lower	Upper
82	100		
128	43.4	36.1	54.1
54	55.5	41.4	62.2



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: 7.958 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.27 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

Instrument :

BNA_F

ClientSampleId :

OR-02-112917

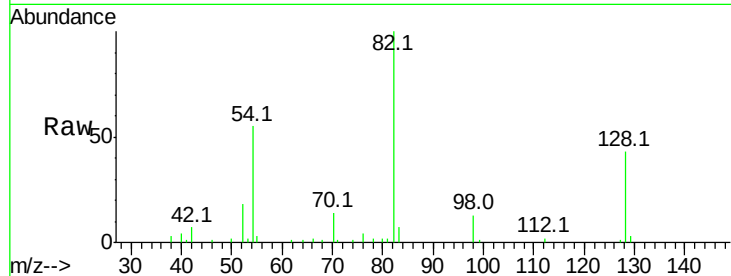
Tot Ion: 82 Resp: 44785

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

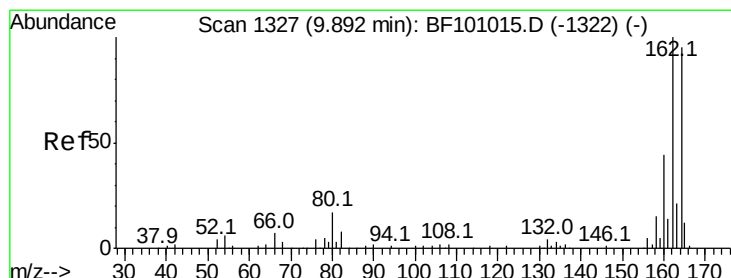
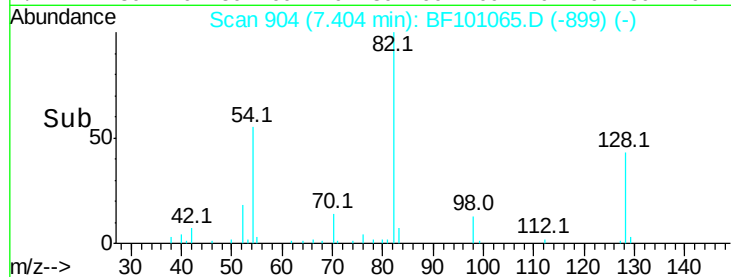
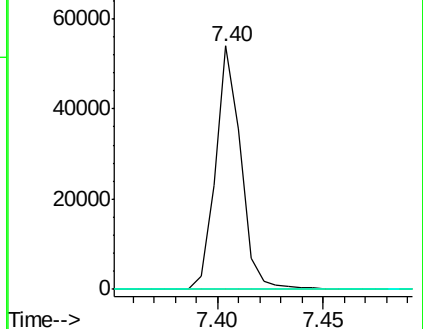
138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

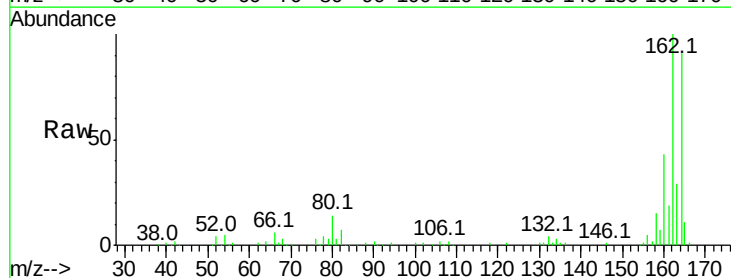
Tgt Ion:164 Resp: 91534

Ion Ratio Lower Upper

164 100

162 110.2 86.1 129.1

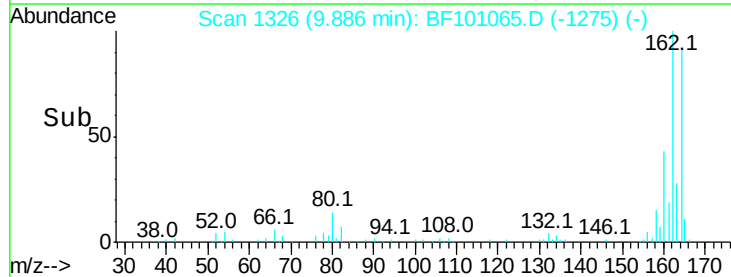
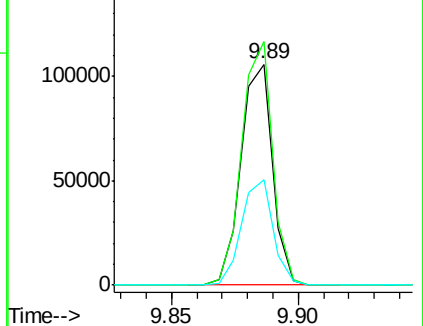
160 47.5 38.3 57.5

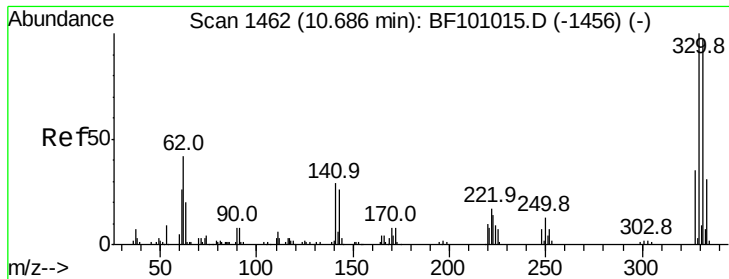


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 12.714 ng

RT: 10.67 min Scan# 1460

Delta R.T. -0.01 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

Instrument :

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ClientSampleId :

OR-02-112917

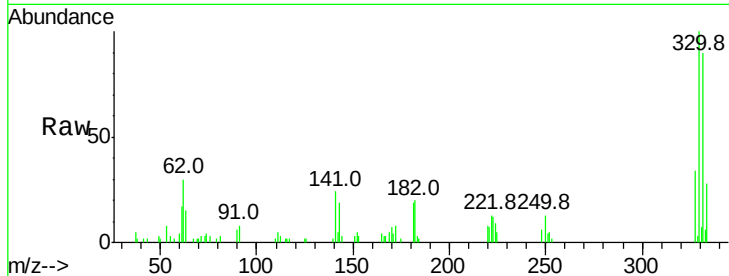
Tot Ion:330 Resp: 13980

Ion Ratio Lower Upper

330 100

332 93.1 77.0 115.6

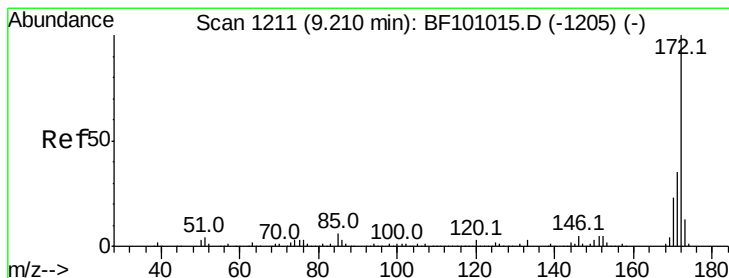
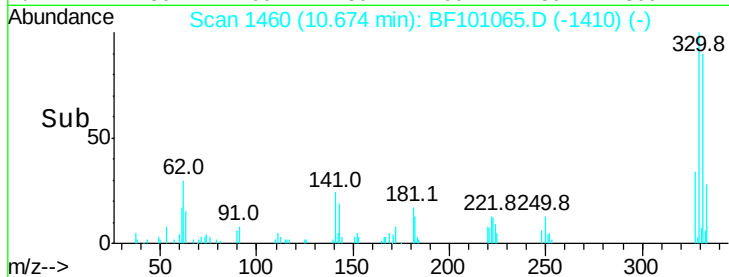
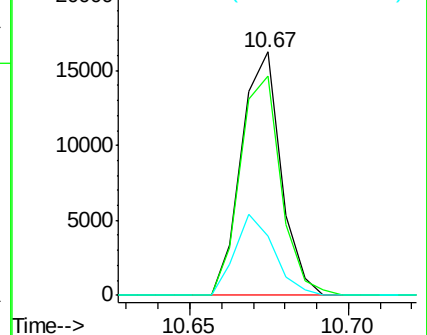
141 32.8 29.9 44.9



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: 15.606 ng

RT: 9.20 min Scan# 1209

Delta R.T. -0.01 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

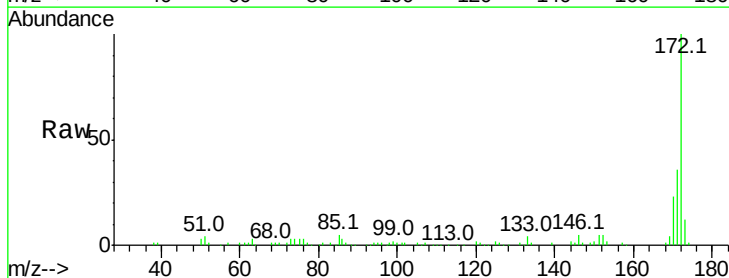
Tgt Ion:172 Resp: 104409

Ion Ratio Lower Upper

172 100

171 36.0 29.7 44.5

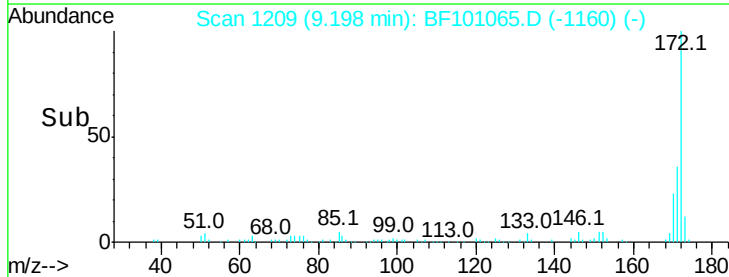
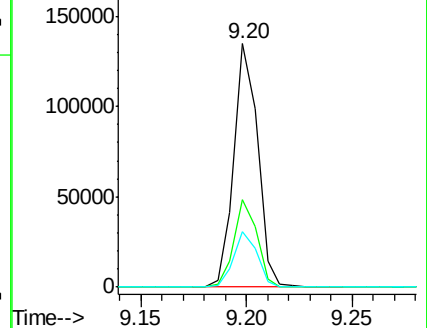
170 23.0 19.6 29.4

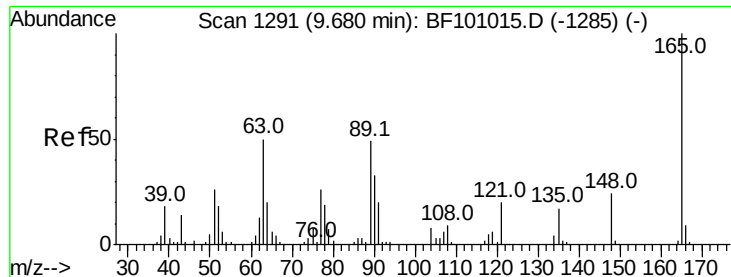


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

2,6-Dinitrotoluene

Concen: 7.788 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.21 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

Instrument :

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ClientSampleId :

OR-02-112917

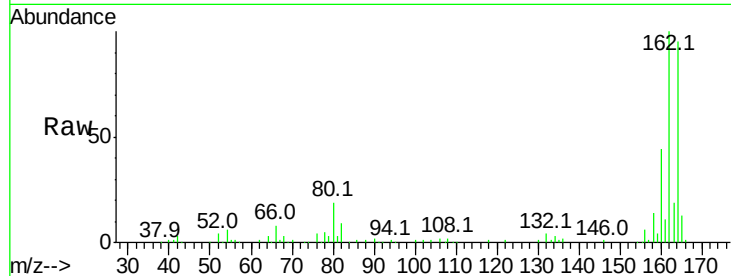
Tot Ion:165 Resp: 12109

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

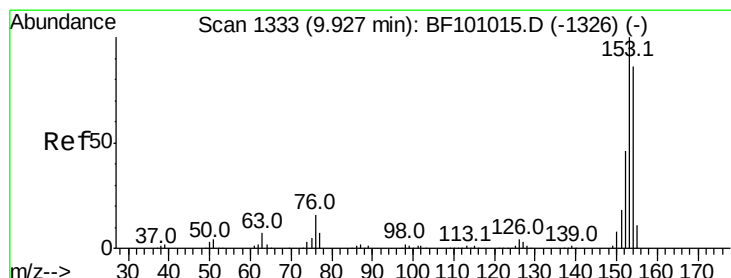
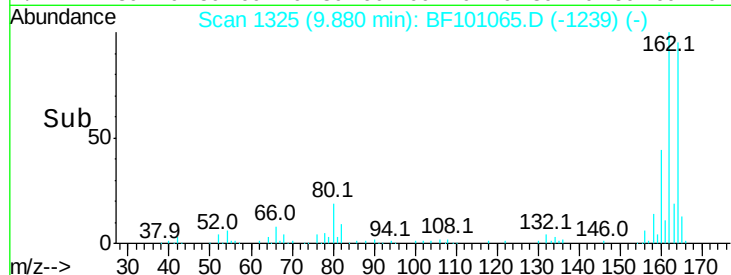
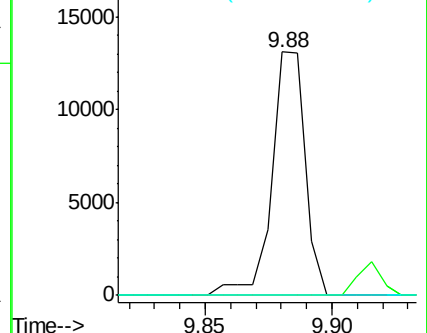
89 0.0 44.0 66.0#



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



#51

Acenaphthene

Concen: 2.737 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

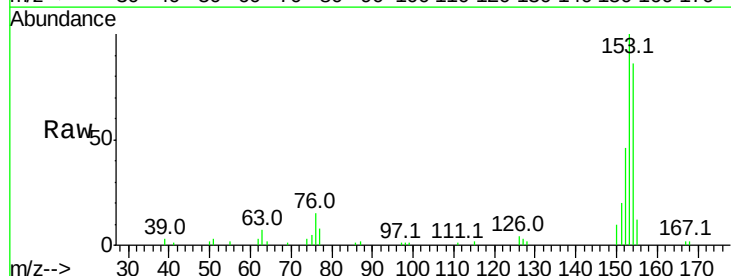
Tgt Ion:154 Resp: 16040

Ion Ratio Lower Upper

154 100

153 116.7 91.2 136.8

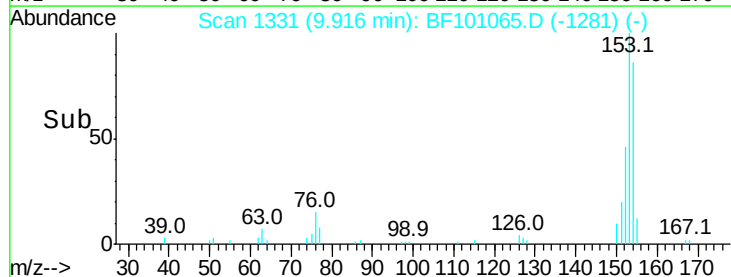
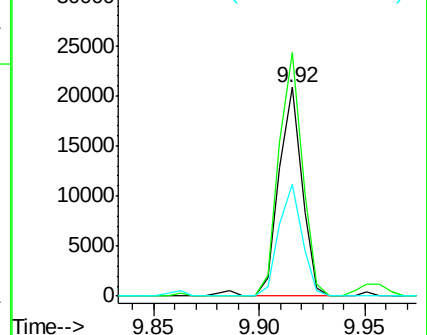
152 53.3 43.8 65.8

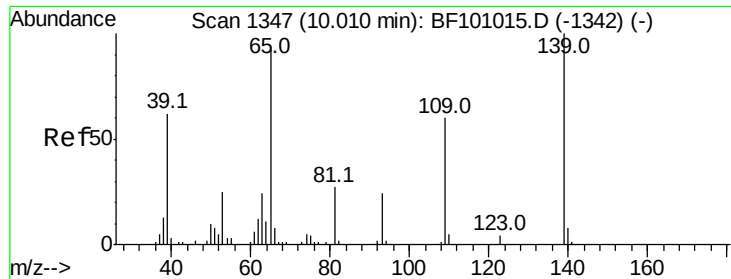


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

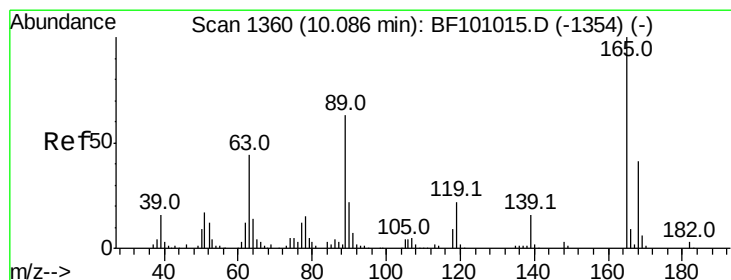
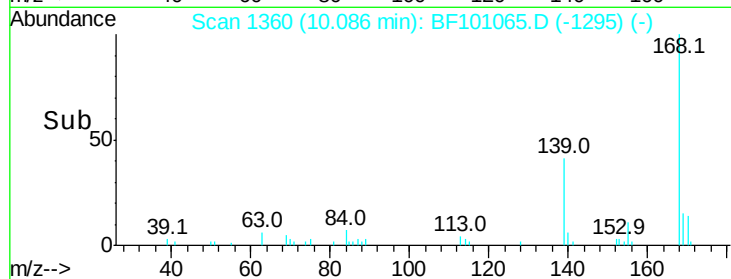
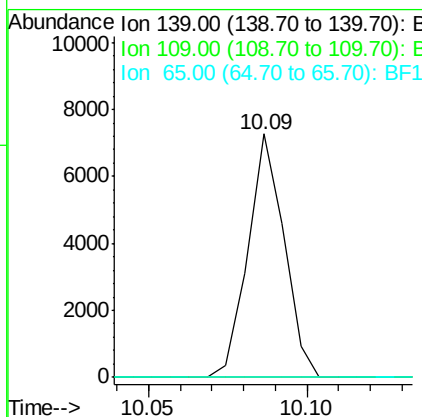
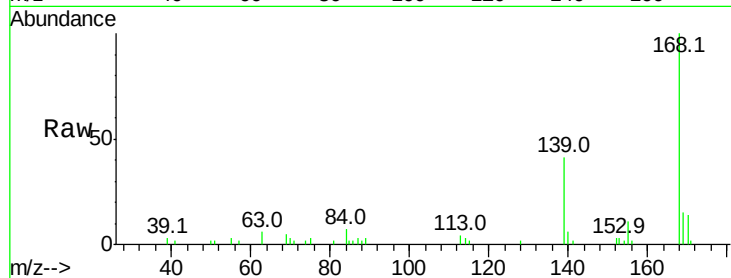




#55
4-Nitrophenol
Concen: 4.866 ng
RT: 10.09 min Scan# 1360
Delta R.T. 0.08 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

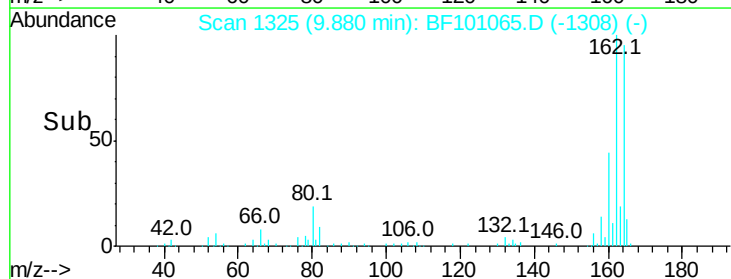
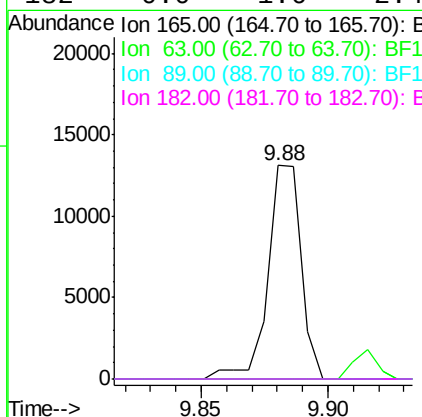
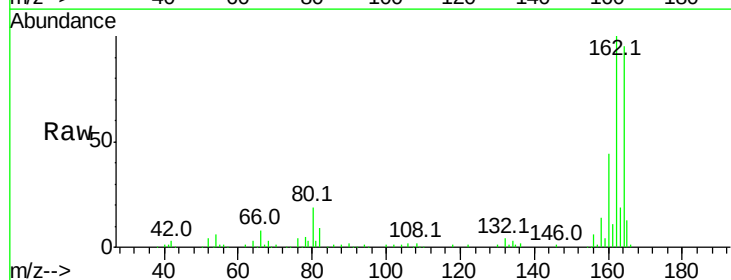
Instrument :
BNA_F
ClientSampleId :
OR-02-112917

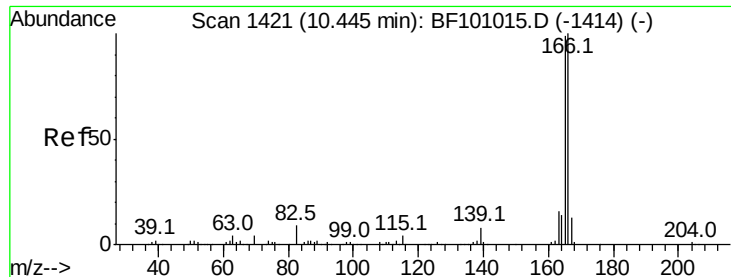
Tot Ion:139 Resp: 5738
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 72.6 112.6#



#56
2,4-Dinitrotoluene
Concen: 5.811 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.20 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

Tgt Ion:165 Resp: 12109
Ion Ratio Lower Upper
165 100
63 0.0 36.4 54.6#
89 0.0 57.8 86.6#
182 0.0 1.6 2.4#

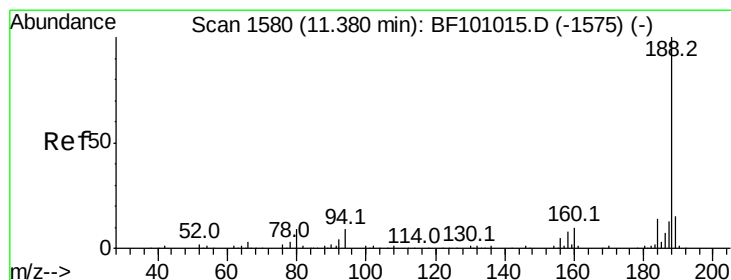
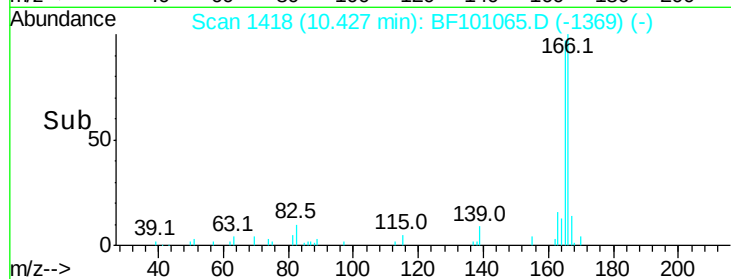
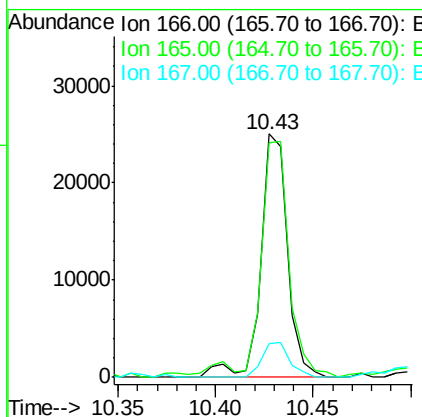
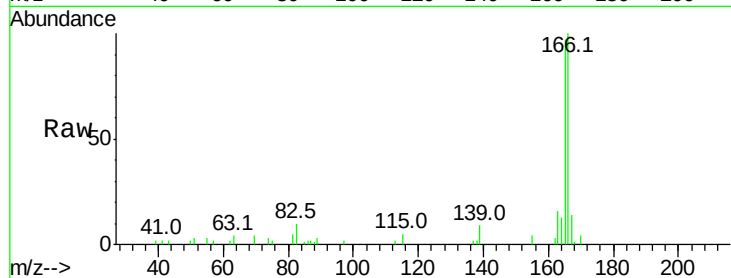




#57
 Fluorene
 Concen: 3.466 ng
 RT: 10.43 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: BF101065.D
 Acq: 1 Dec 2017 16:11

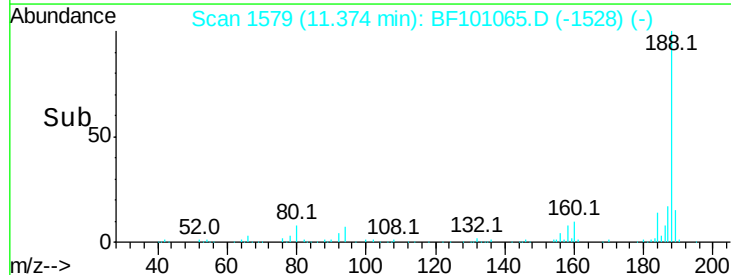
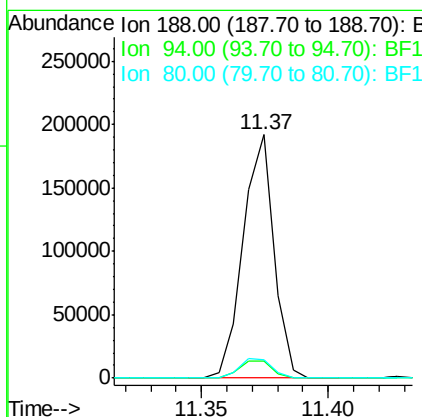
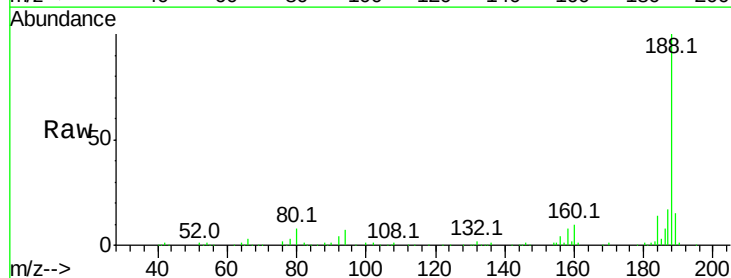
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-112917

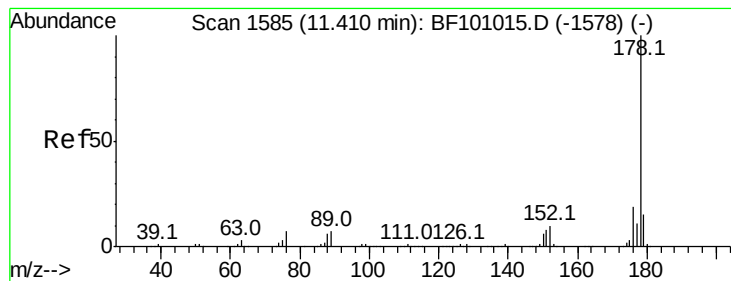
Tot Ion:166 Resp: 23797
 Ion Ratio Lower Upper
 166 100
 165 96.6 79.8 119.8
 167 13.6 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: BF101065.D
 Acq: 1 Dec 2017 16:11

Tgt Ion:188 Resp: 162094
 Ion Ratio Lower Upper
 188 100
 94 7.3 8.5 12.7#
 80 7.7 9.2 13.8#





#70

Phenanthrene

Concen: 23.505 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

Instrument :

BNA_F

ClientSampleId :

OR-02-112917

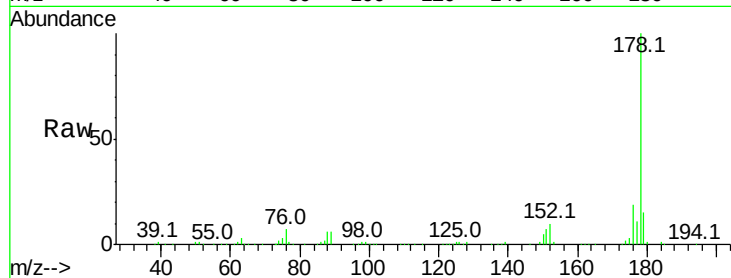
Tot Ion:178 Resp: 209816

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

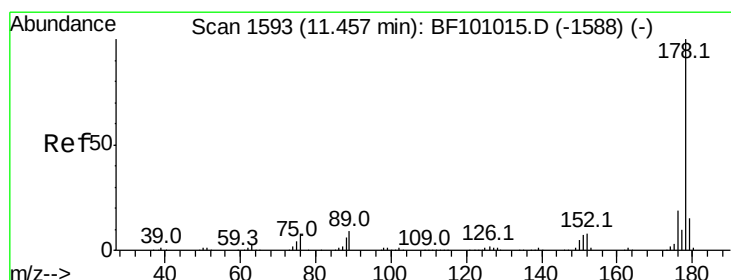
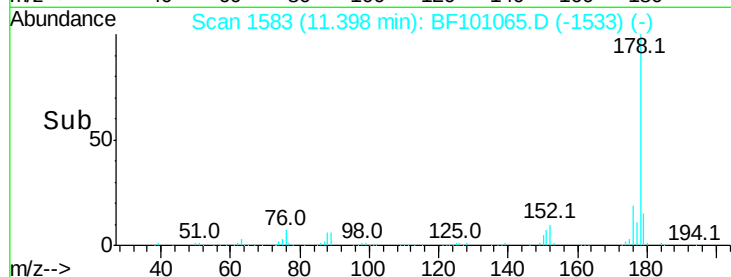
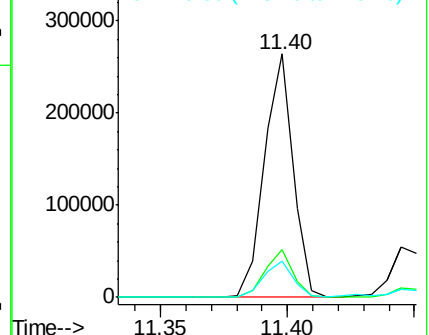
179 15.2 13.0 19.6



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: 5.305 ng

RT: 11.45 min Scan# 1591

Delta R.T. -0.01 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

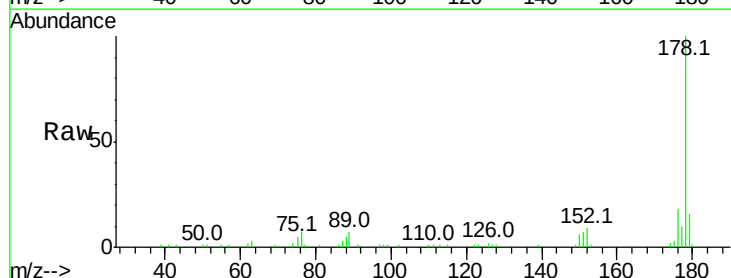
Tgt Ion:178 Resp: 47925

Ion Ratio Lower Upper

178 100

176 17.9 15.4 23.2

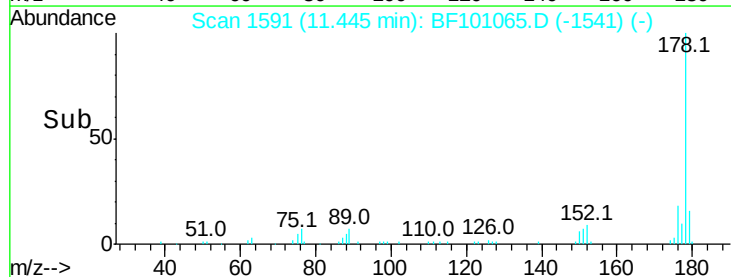
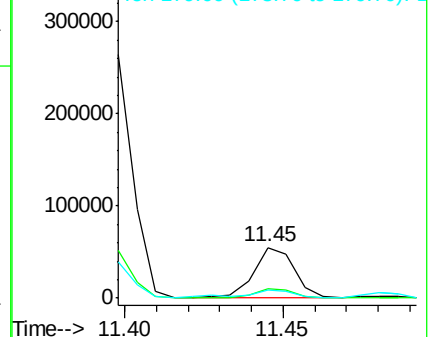
179 16.4 12.6 19.0

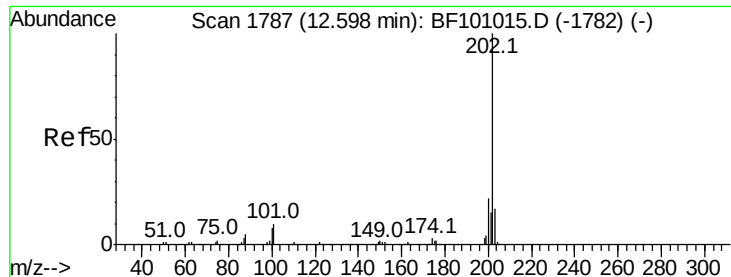


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

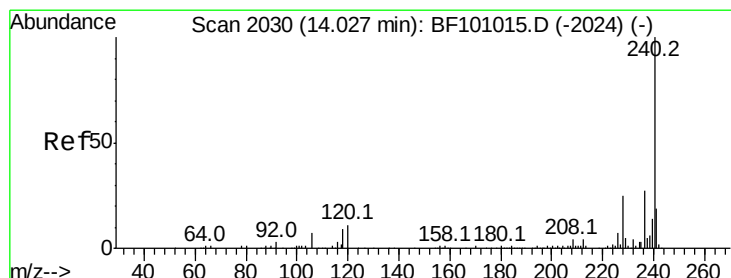
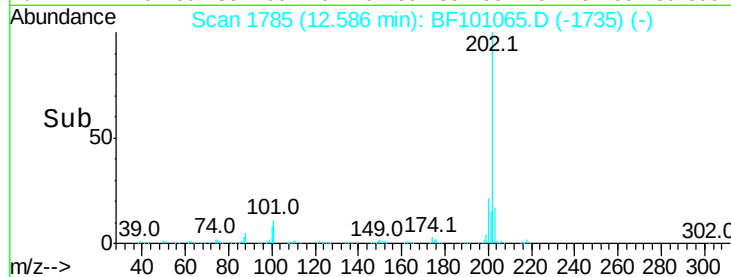
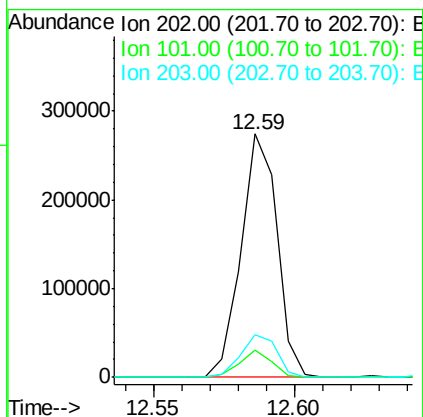
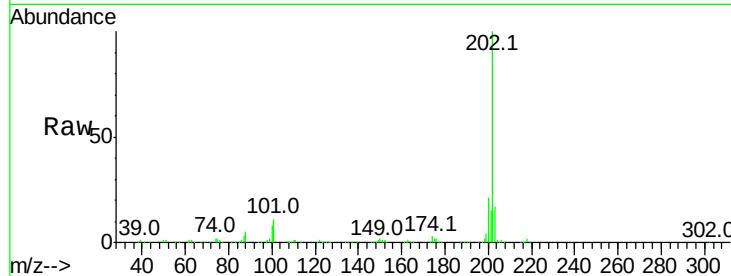




#74
Fluoranthene
Concen: 24.604 ng
RT: 12.59 min Scan# 1785
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

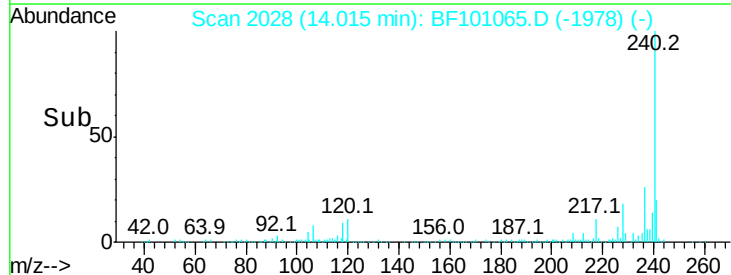
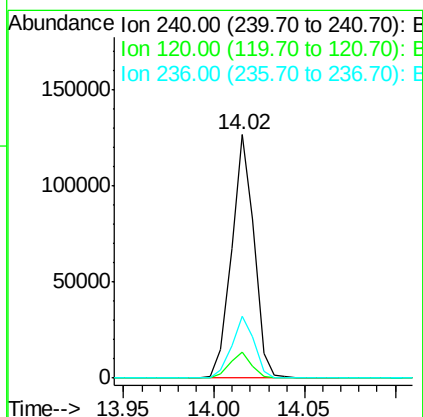
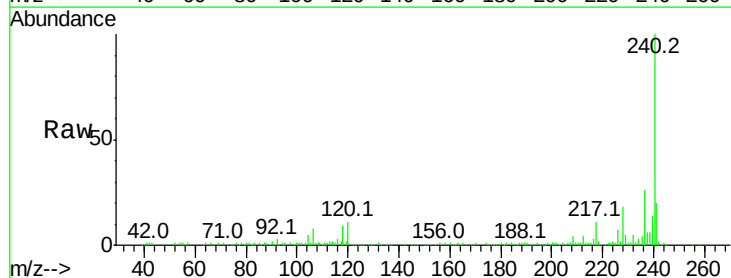
Instrument :
BNA_F
ClientSampleId :
OR-02-112917

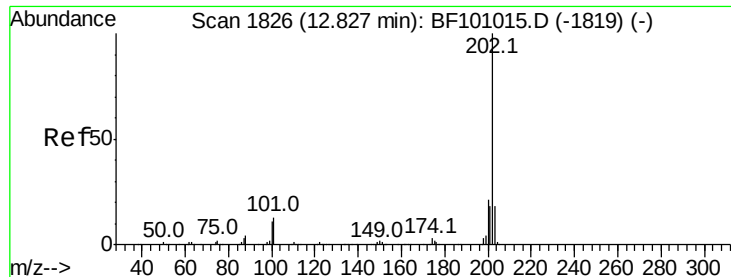
Tot Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	34.1
203	17.4	0.0	38.1



#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.5	14.3
236	25.6	20.7	31.1

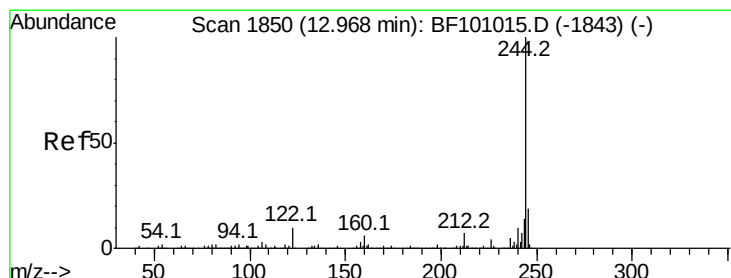
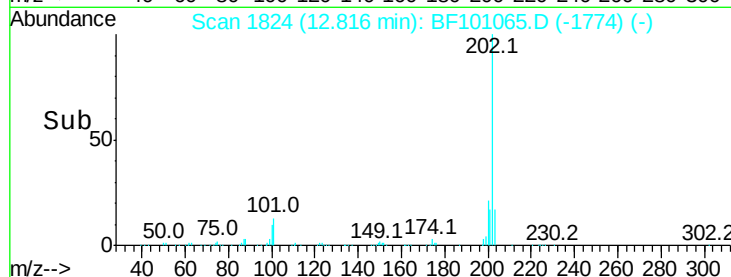
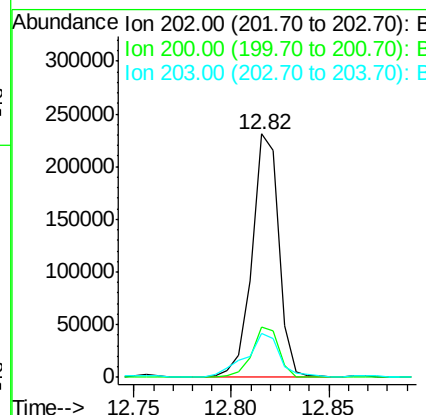
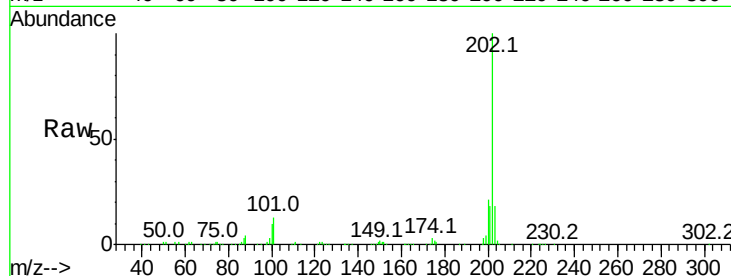




#77
Pvrene
Concen: 29.405 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

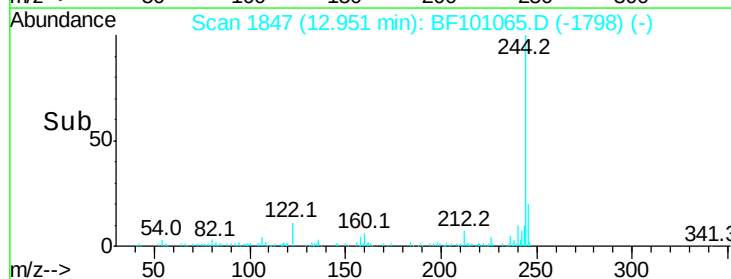
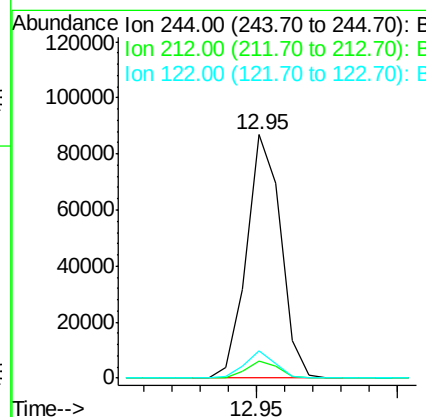
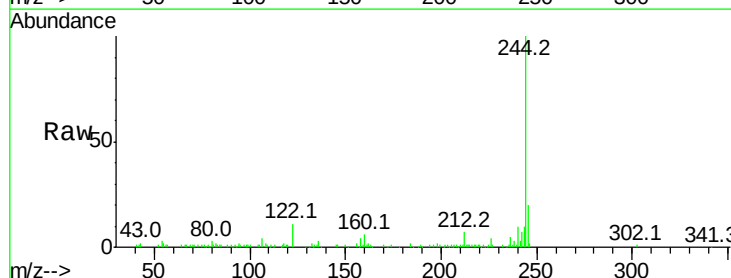
Instrument :
BNA_F
ClientSampleId :
OR-02-112917

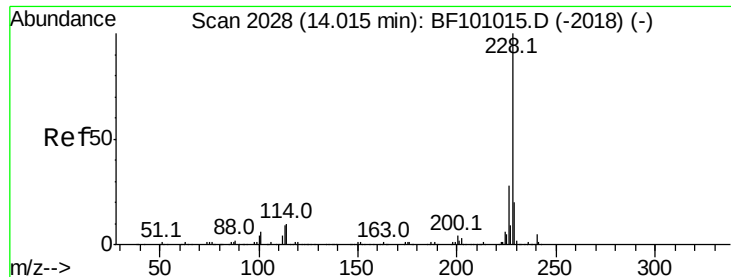
Tot Ion:202 Resp: 220770
Ion Ratio Lower Upper
202 100
200 20.7 17.4 26.2
203 17.9 14.3 21.5



#78
Terphenyl-d14
Concen: 14.623 ng
RT: 12.95 min Scan# 1847
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

Tgt Ion:244 Resp: 72745
Ion Ratio Lower Upper
244 100
212 6.9 5.4 8.0
122 11.2 11.0 16.4

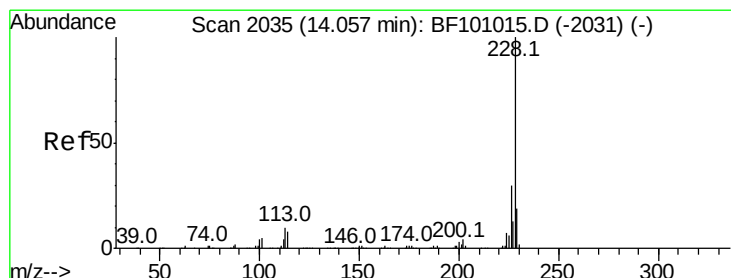
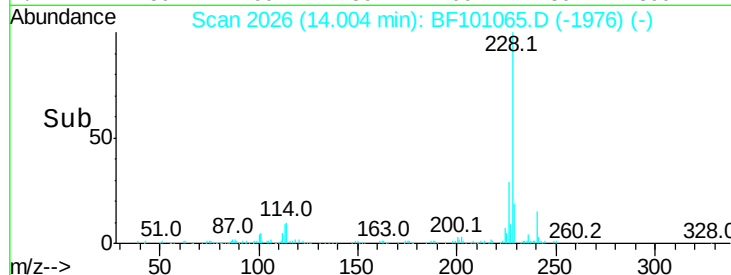
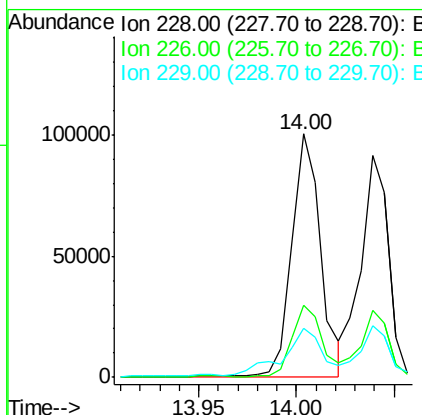
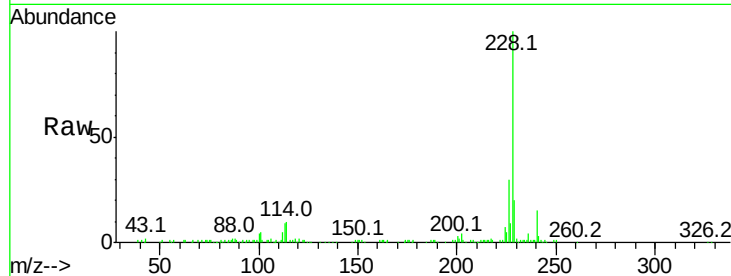




#80
Benzo(a)anthracene
Concen: 15.116 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

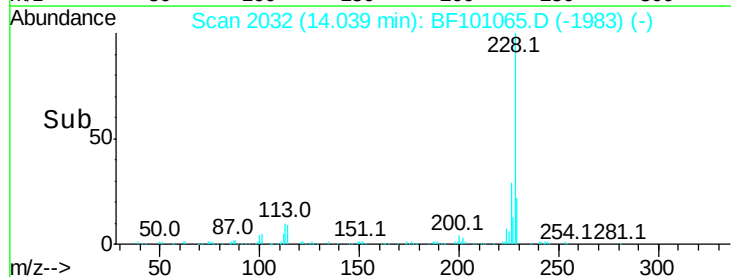
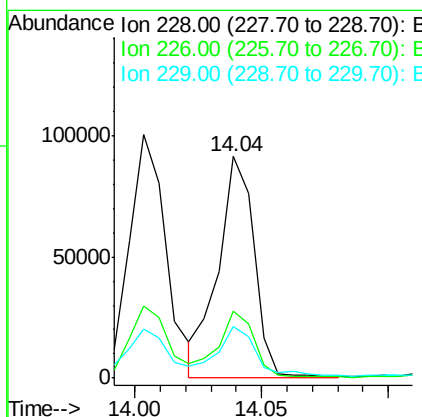
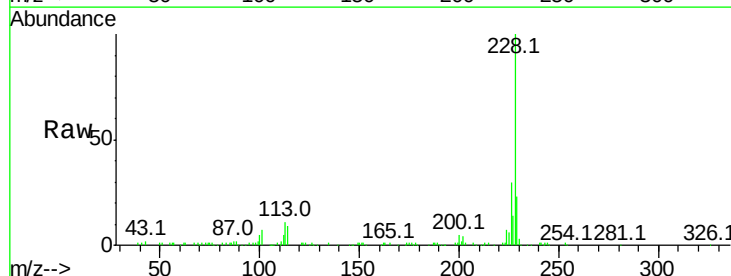
Instrument :
BNA_F
ClientSampleId :
OR-02-112917

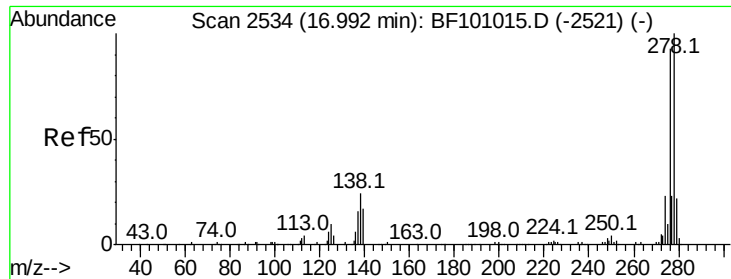
Tot Ion:228 Resp: 103845
Ion Ratio Lower Upper
228 100
226 29.6 22.6 33.8
229 20.4 15.8 23.6



#82
Chrysene
Concen: 14.181 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

Tgt Ion:228 Resp: 90477
Ion Ratio Lower Upper
228 100
226 30.1 25.0 37.6
229 23.2 16.2 24.4

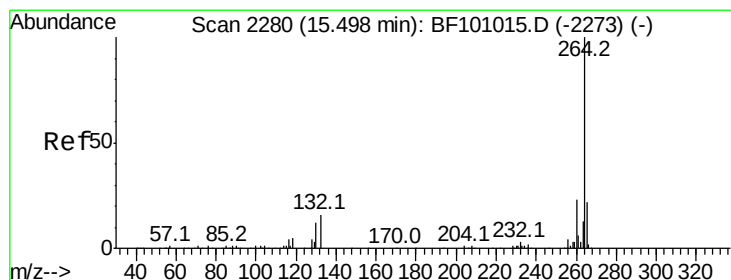
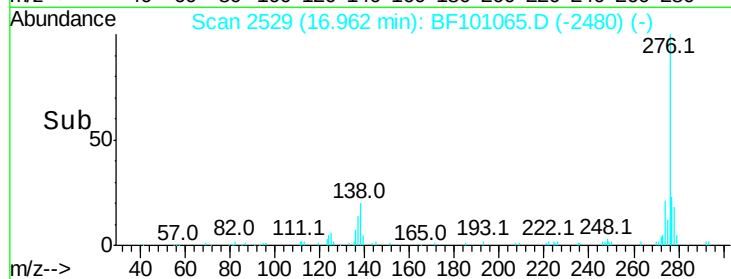
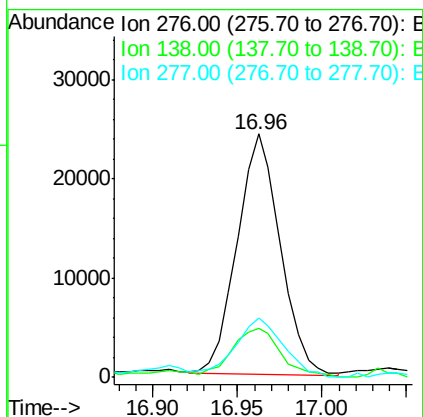
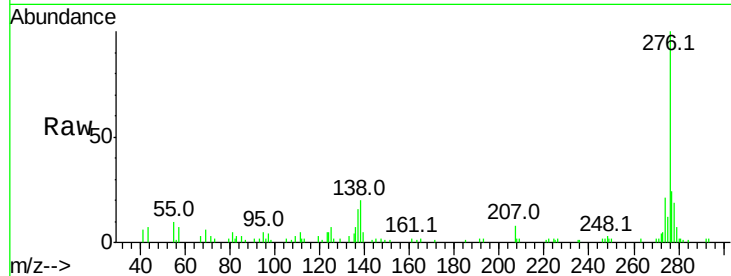




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.553 ng
 RT: 16.96 min Scan# 2529
 Delta R.T. -0.01 min
 Lab File: BF101065.D
 Acq: 1 Dec 2017 16:11

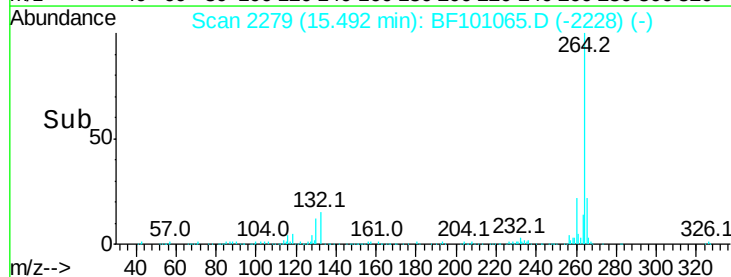
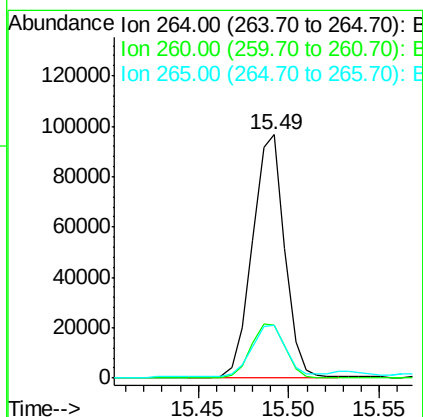
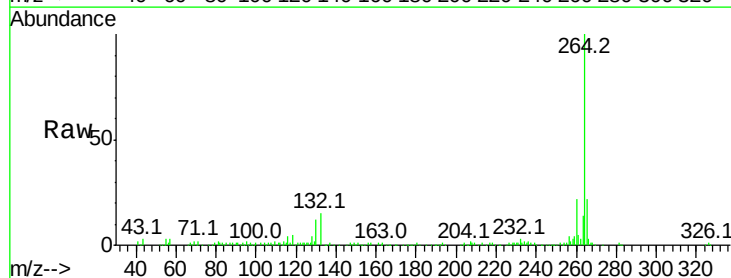
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-112917

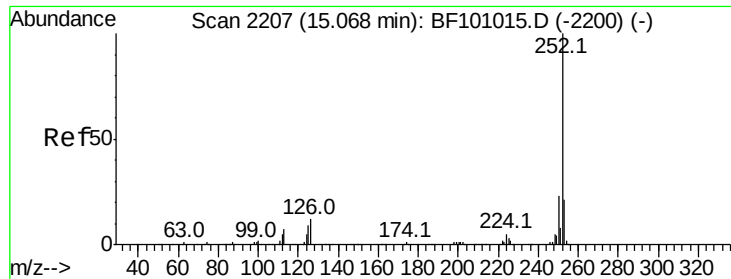
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.2	25.0	37.6#
277	28.0	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.49 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: BF101065.D
 Acq: 1 Dec 2017 16:11

Tgt Ion	Ratio	Lower	Upper
264	100		
260	21.9	19.2	28.8
265	21.9	17.5	26.3

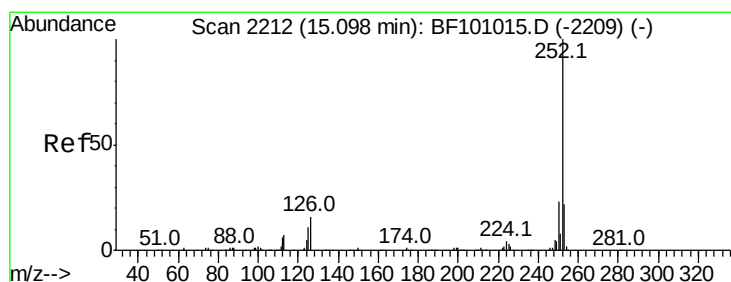
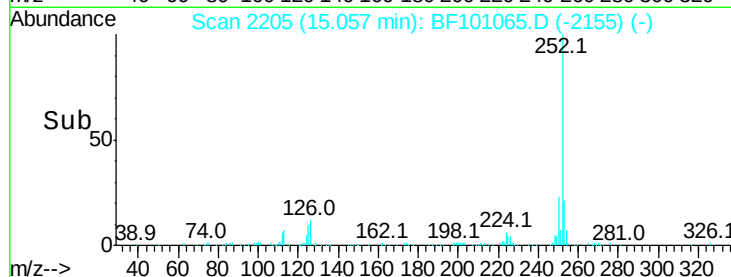
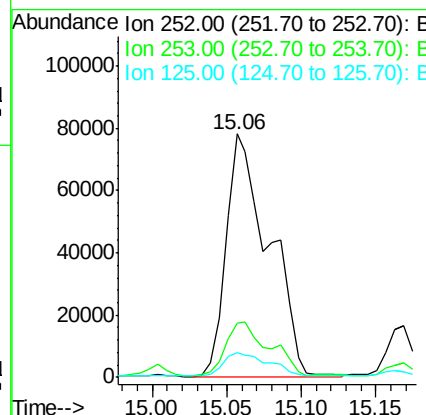
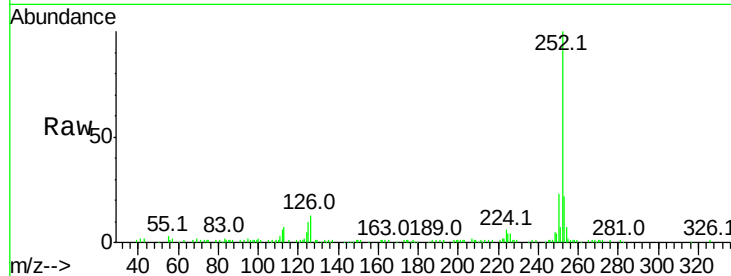




#87
Benzo(b)fluoranthene
Concen: 21.897 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

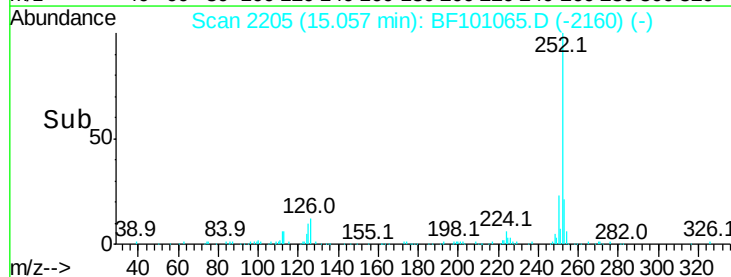
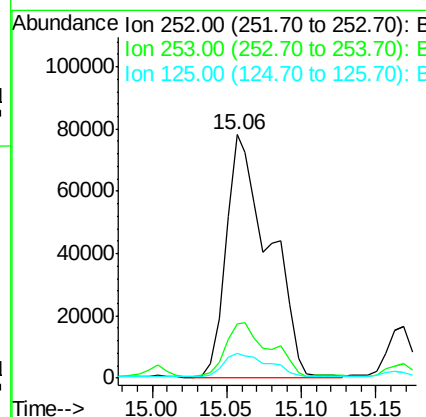
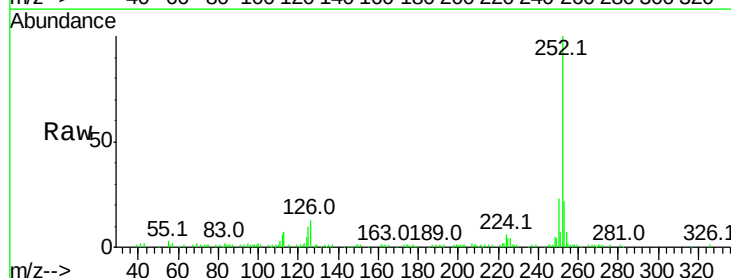
Instrument :
BNA_F
ClientSampleId :
OR-02-112917

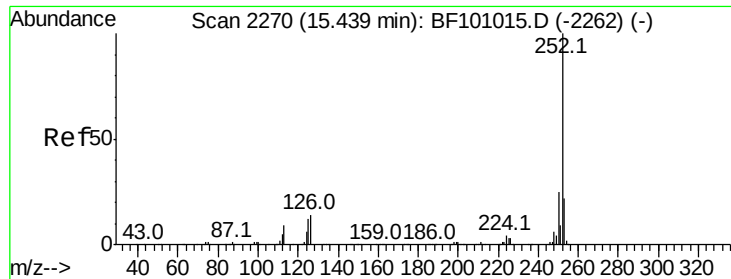
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.6
125	10.3	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 22.226 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.04 min
Lab File: BF101065.D
Acq: 1 Dec 2017 16:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	10.3	10.2	15.2





#89

Benzo(a)pyrene

Concen: 13.461 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.01 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

Instrument :

BNA_F

ClientSampleId :

OR-02-112917

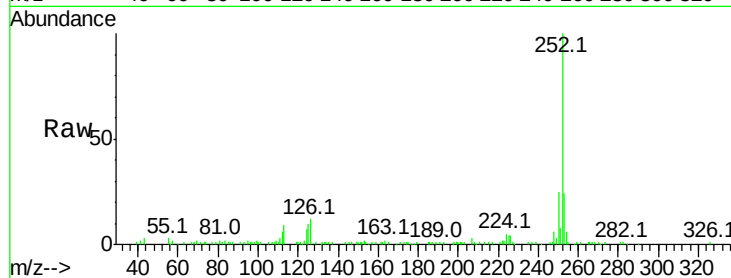
Tot Ion:252 Resp: 87923

Ion Ratio Lower Upper

252 100

253 23.7 17.1 25.7

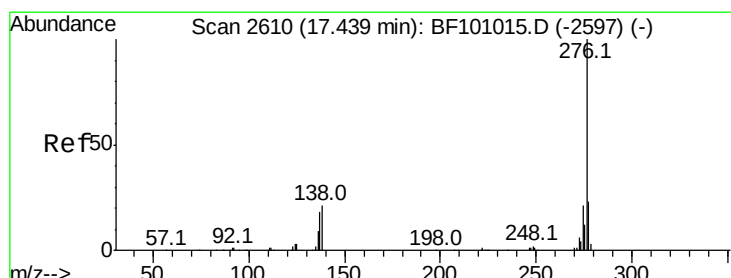
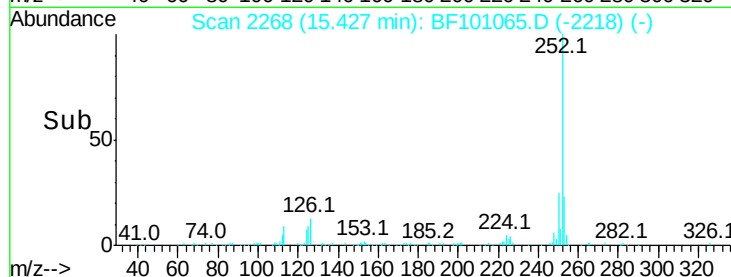
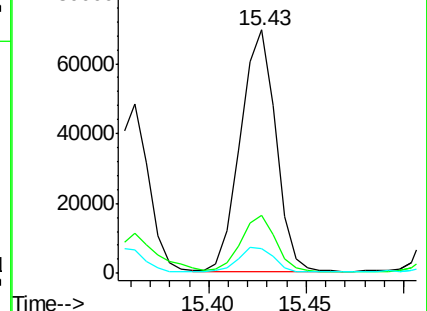
125 10.1 9.8 14.6



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



#91

Benzo(g,h,i)perylene

Concen: 7.503 ng

RT: 17.41 min Scan# 2605

Delta R.T. -0.02 min

Lab File: BF101065.D

Acq: 1 Dec 2017 16:11

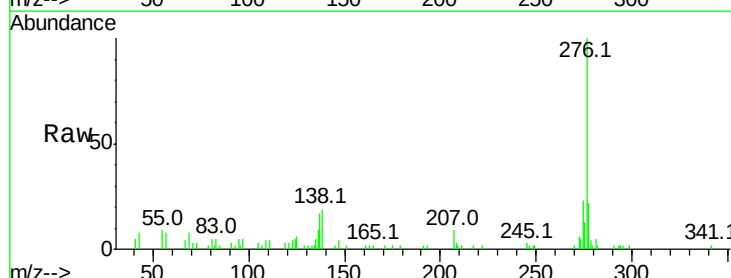
Tgt Ion:276 Resp: 40719

Ion Ratio Lower Upper

276 100

277 22.1 17.9 26.9

138 18.9 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

