

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
 Data File : BF101247.D
 Acq On : 8 Dec 2017 20:25
 Operator : SJ/JU
 Sample : I6677-01 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-120717-A

Quant Time: Dec 11 04:46:04 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

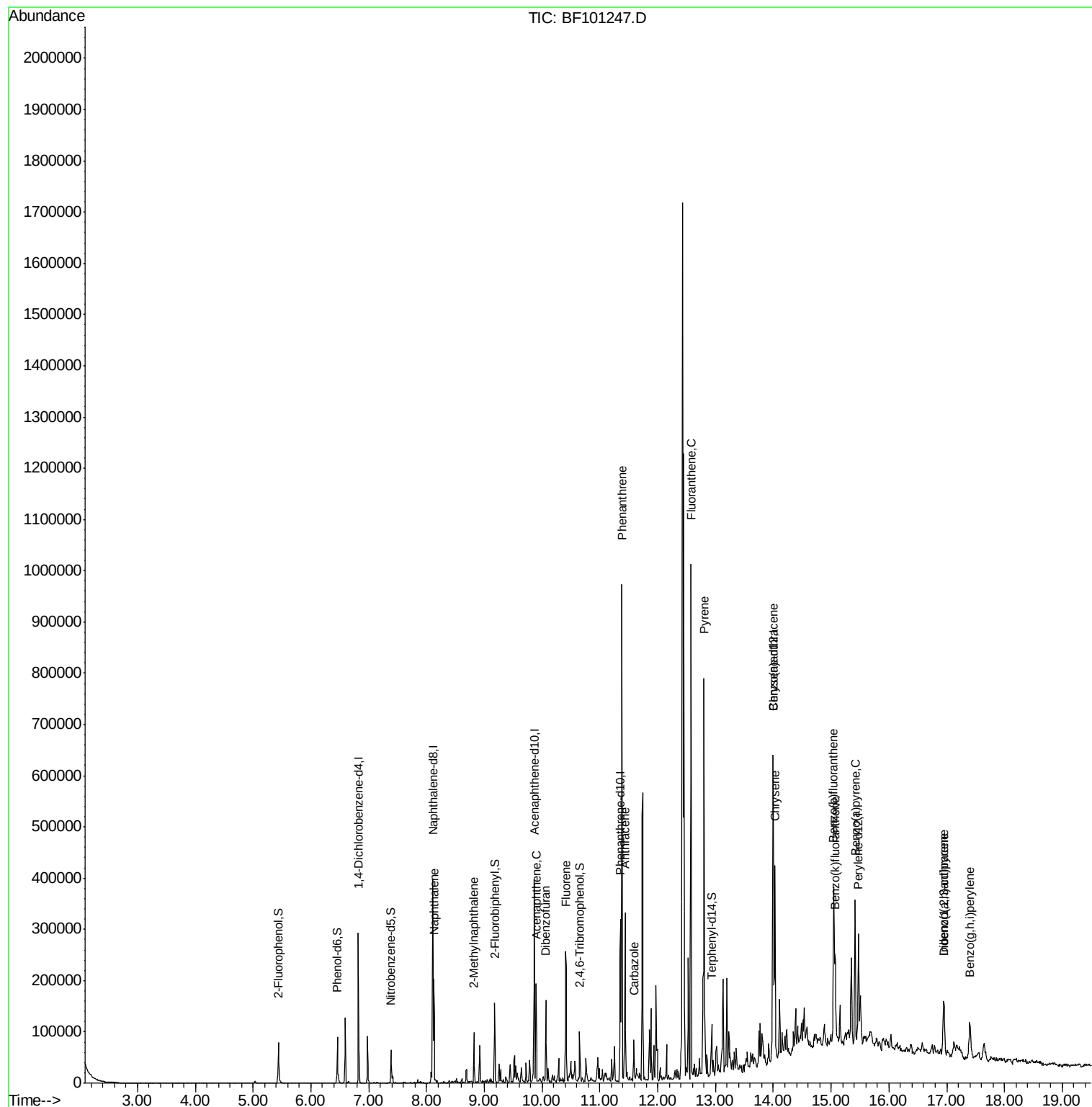
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	45100	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	172233	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	73315	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	119062	20.00	ng	0.00
75) Chrysene-d12	14.00	240	107437	20.00	ng	0.00
86) Perylene-d12	15.47	264	93637	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	29989	10.99	ng	0.00
7) Phenol-d6	6.46	99	35680	10.77	ng	0.00
23) Nitrobenzene-d5	7.39	82	19339	6.70	ng	-0.01
41) 2,4,6-Tribromophenol	10.66	330	7381	8.38	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	43132	8.05	ng	0.00
78) Terphenyl-d14	12.94	244	31848	6.48	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.13	128	79870	9.409	ng	99
37) 2-Methylnaphthalene	8.82	142	24399	4.230	ng	99
51) Acenaphthene	9.90	154	38794	8.264	ng	98
54) Dibenzofuran	10.07	168	51071	7.549	ng	97
57) Fluorene	10.41	166	70450	12.811	ng	99
70) Phenanthrene	11.38	178	381571	58.196	ng	99
71) Anthracene	11.43	178	124574	18.773	ng	98
72) Carbazole	11.59	167	28141	4.641	ng	97
74) Fluoranthene	12.57	202	413500	56.893	ng	95
77) Pyrene	12.80	202	333610	45.000	ng	98
80) Benzo(a)anthracene	13.99	228	189570m	27.946	ng	
82) Chrysene	14.03	228	152401	24.191	ng	98
85) Indeno(1,2,3-cd)pyrene	16.95	276	63492	11.336	ng	# 88
87) Benzo(b)fluoranthene	15.04	252	175241m	31.245	ng	
88) Benzo(k)fluoranthene	15.07	252	61078m	11.053	ng	
89) Benzo(a)pyrene	15.42	252	126110m	24.733	ng	
90) Dibenzo(a,h)anthracene	16.95	278	16572m	3.687	ng	
91) Benzo(g,h,i)perylene	17.40	276	57315	13.529	ng	# 94

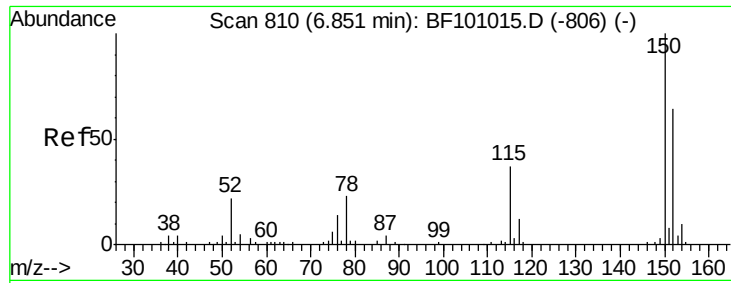
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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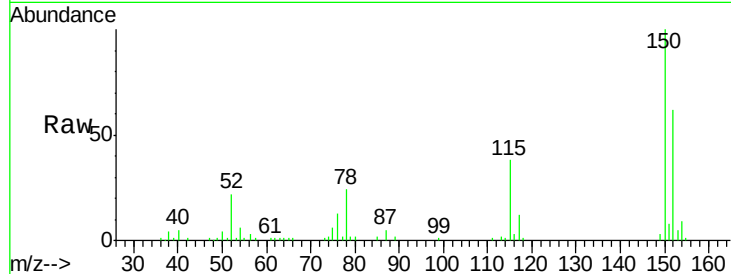


#1

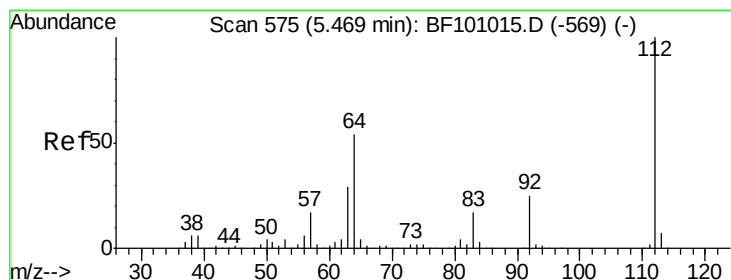
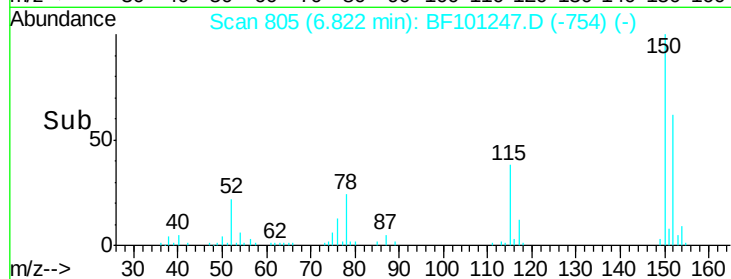
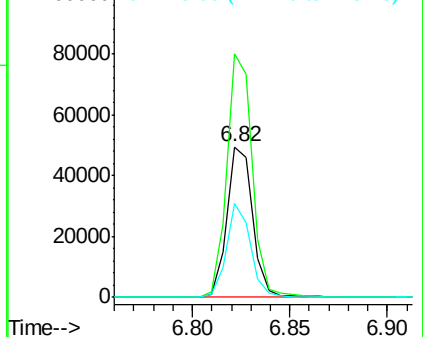
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.00 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

Instrument :
BNA_F
ClientSampleId :
OR-03-120717-A

Tot Ion:152 Resp: 45100
Ion Ratio Lower Upper
152 100
150 162.1 124.6 186.8
115 62.3 50.1 75.1



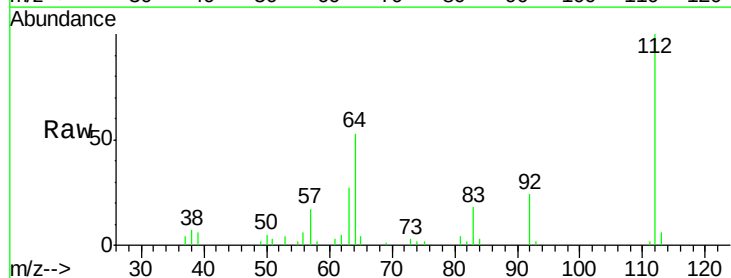
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



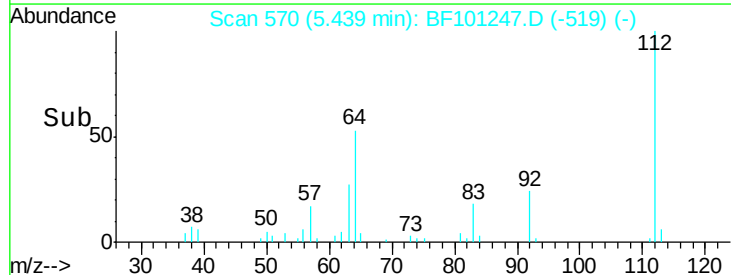
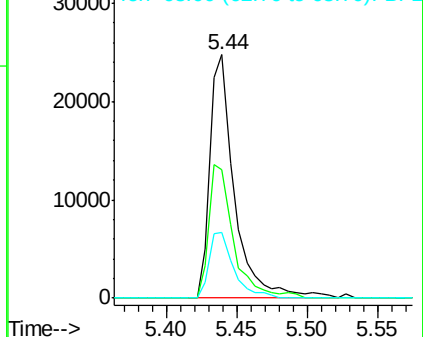
#5

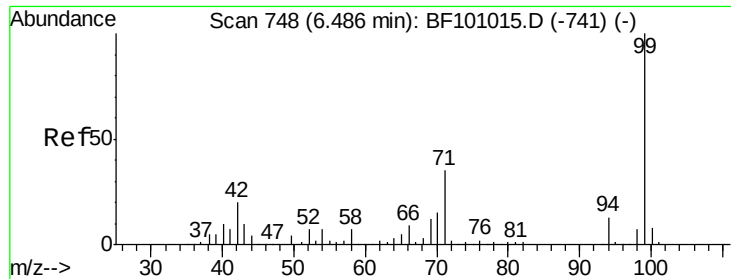
2-Fluorophenol
Concen: 10.988 ng
RT: 5.44 min Scan# 570
Delta R.T. -0.00 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

Tgt Ion:112 Resp: 29989
Ion Ratio Lower Upper
112 100
64 52.8 47.9 71.9
63 26.9 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: 10.768 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

Instrument :

BNA_F

ClientSampleId :

OR-03-120717-A

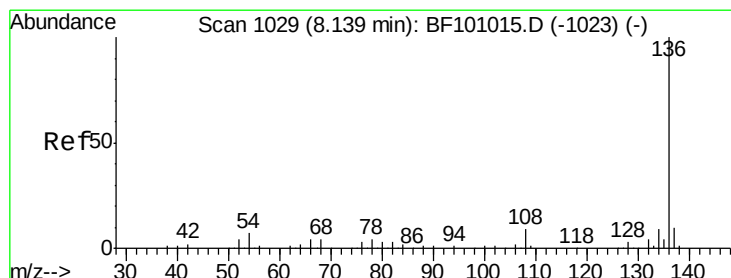
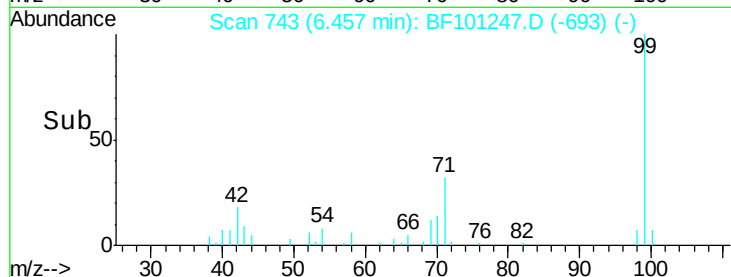
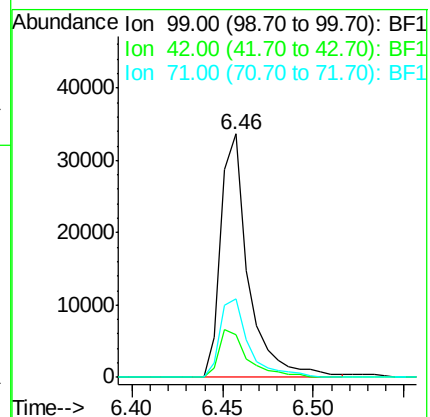
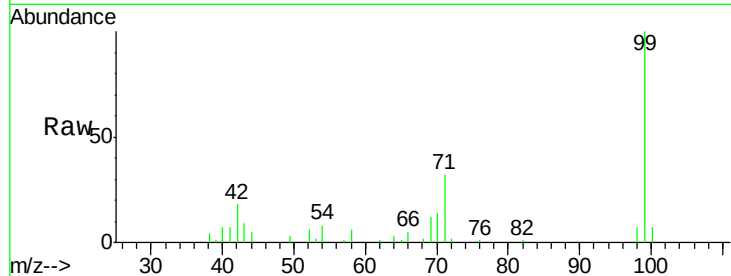
Tot Ion: 99 Resp: 35680

Ion Ratio Lower Upper

99 100

42 17.5 14.5 21.7

71 32.5 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.11 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

Tgt Ion: 136 Resp: 172233

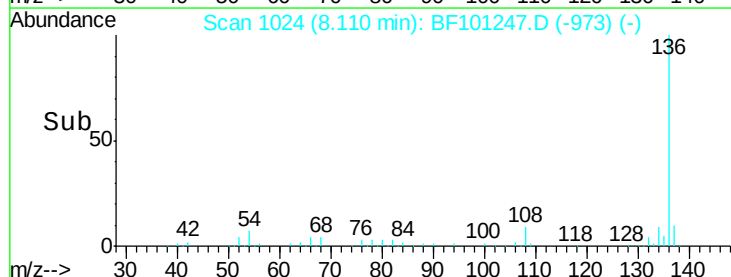
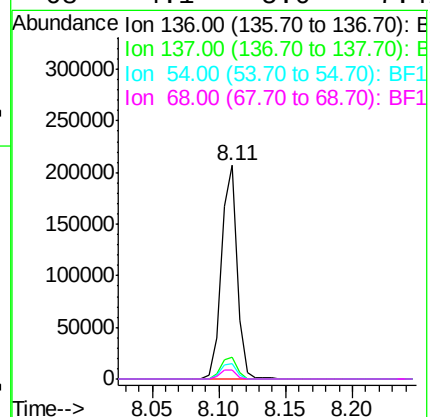
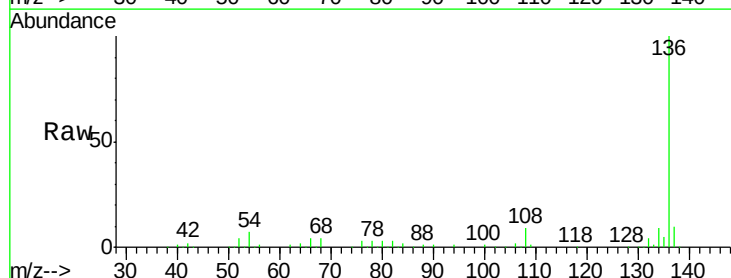
Ion Ratio Lower Upper

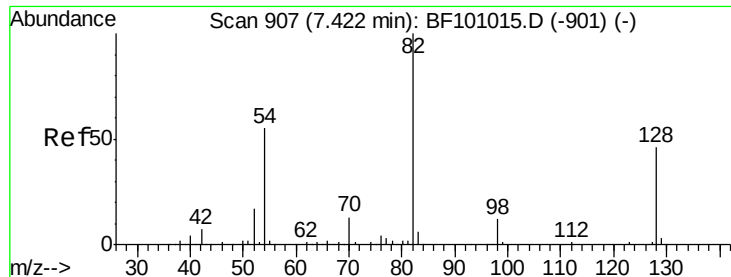
136 100

137 10.2 8.9 13.3

54 7.0 6.6 9.8

68 4.1 5.0 7.4#

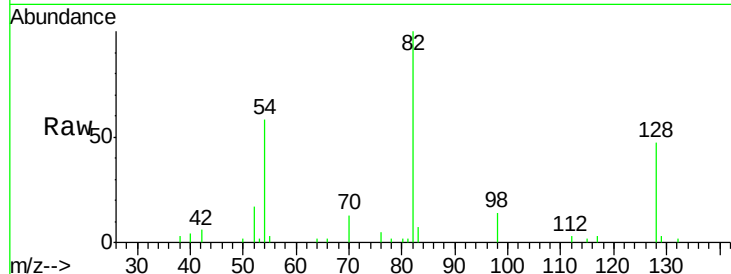




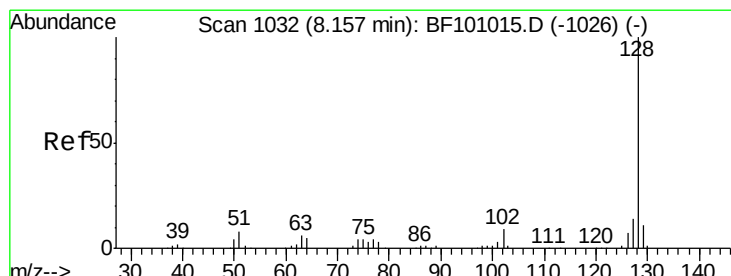
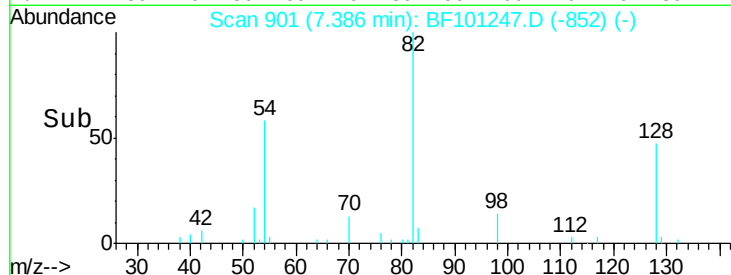
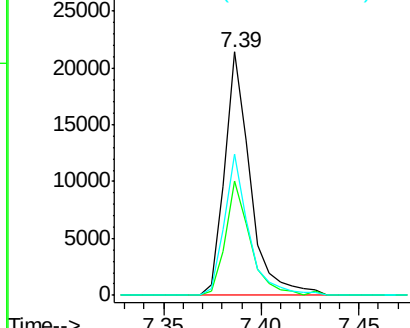
#23
Nitrobenzene-d5
Concen: 6.698 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.01 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

Instrument :
BNA_F
ClientSampleId :
OR-03-120717-A

Tot Ion: 82 Resp: 19339
Ion Ratio Lower Upper
82 100
128 47.1 36.1 54.1
54 58.0 41.4 62.2

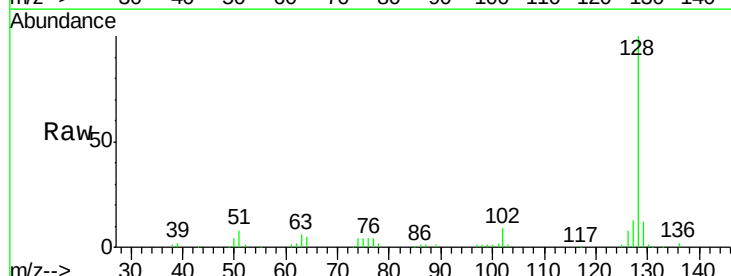


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

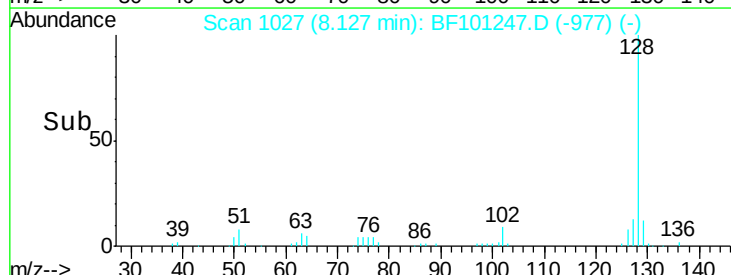
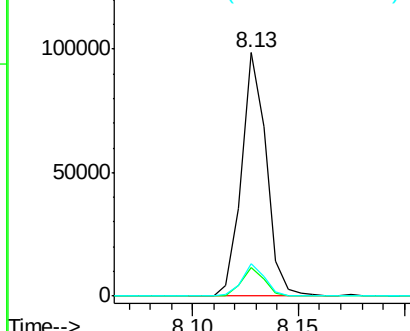


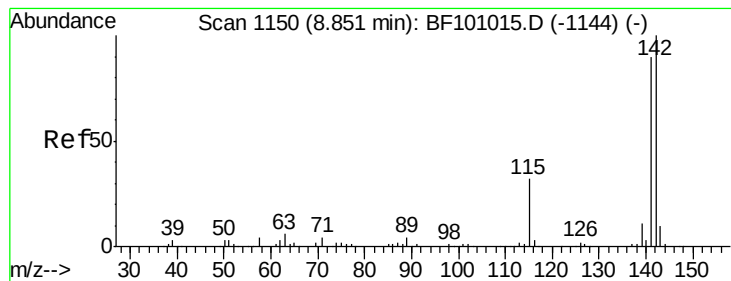
#31
Naphthalene
Concen: 9.409 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

Tgt Ion: 128 Resp: 79870
Ion Ratio Lower Upper
128 100
129 11.9 8.8 13.2
127 13.5 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





#37

2-Methylnaphthalene

Concen: 4.230 ng

RT: 8.82 min Scan# 1145

Delta R.T. -0.00 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

Instrument :

BNA_F

ClientSampleId :

OR-03-120717-A

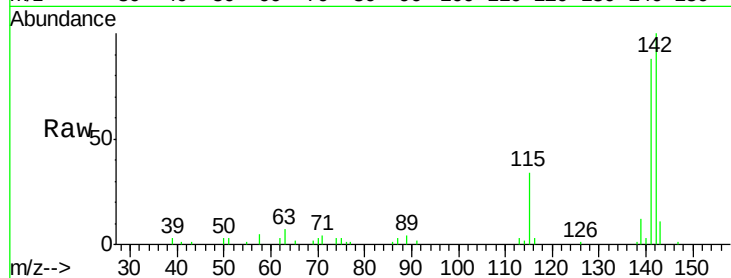
Tot Ion:142 Resp: 24399

Ion Ratio Lower Upper

142 100

141 87.6 70.8 106.2

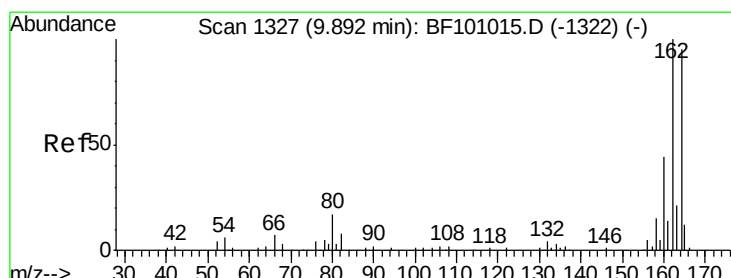
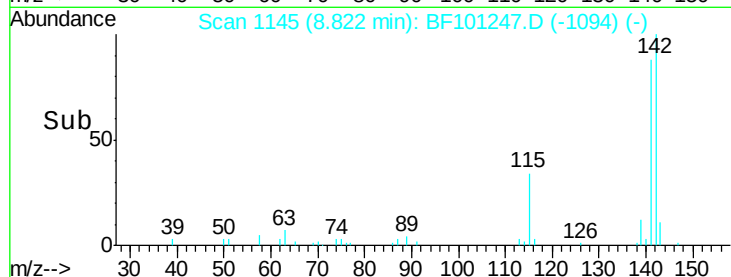
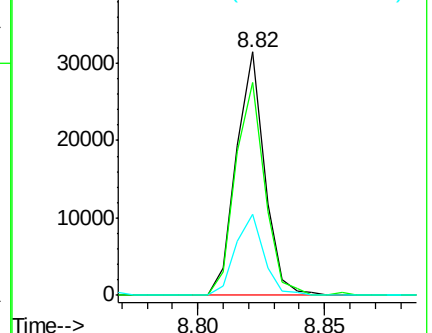
115 33.5 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

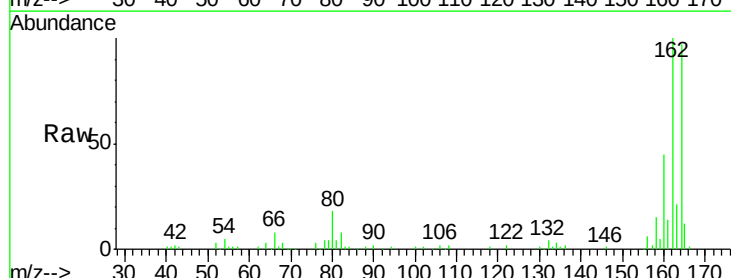
Tgt Ion:164 Resp: 73315

Ion Ratio Lower Upper

164 100

162 103.1 86.1 129.1

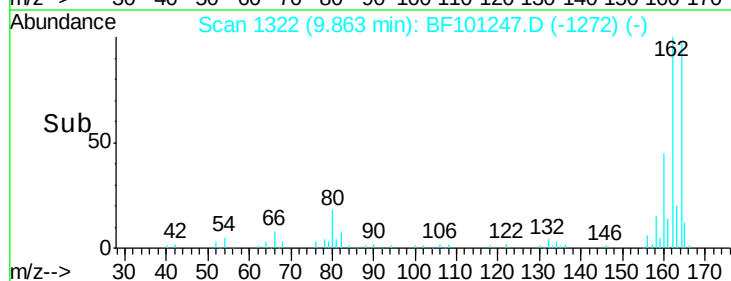
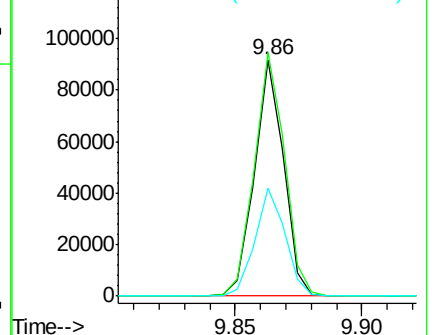
160 45.9 38.3 57.5

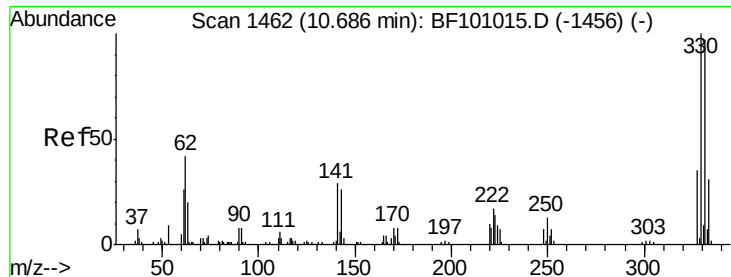


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 8.381 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

Instrument :

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ClientSampleId :

OR-03-120717-A

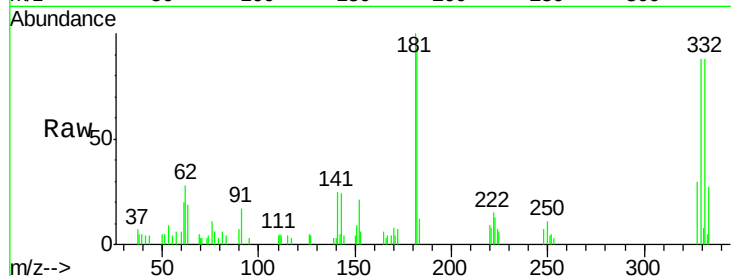
Tot Ion:330 Resp: 7381

Ion Ratio Lower Upper

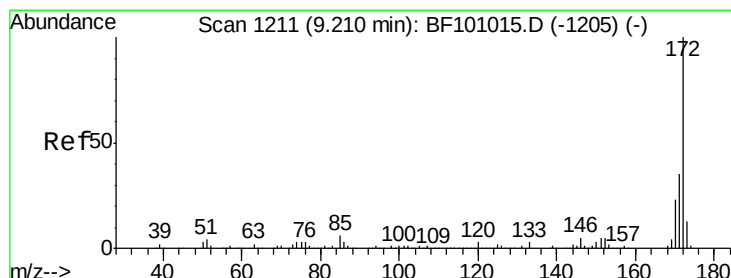
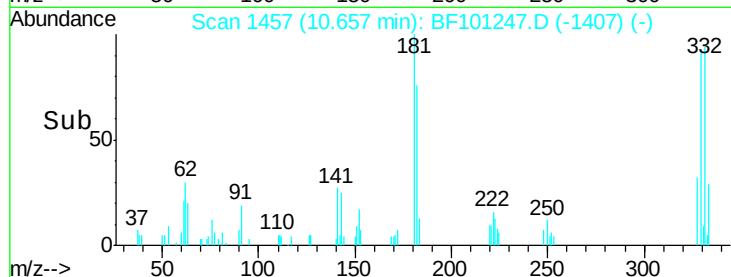
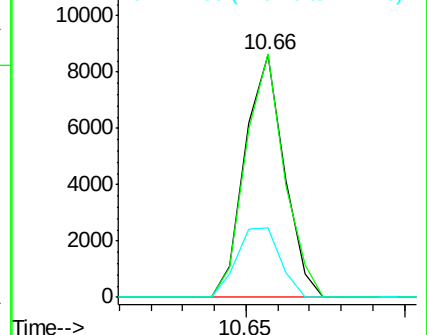
330 100

332 99.5 77.0 115.6

141 31.6 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: 8.049 ng

RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

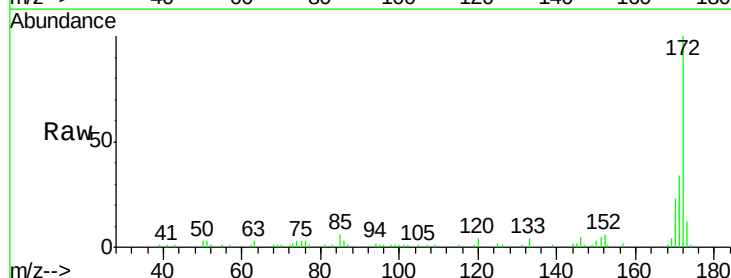
Tgt Ion:172 Resp: 43132

Ion Ratio Lower Upper

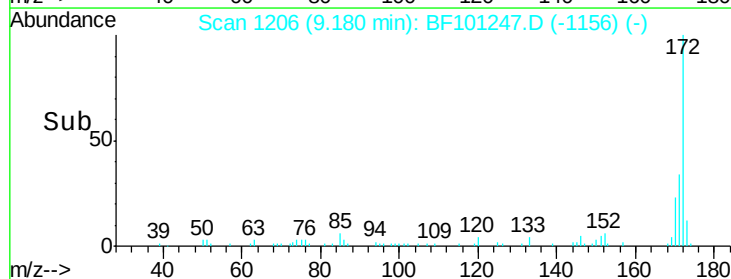
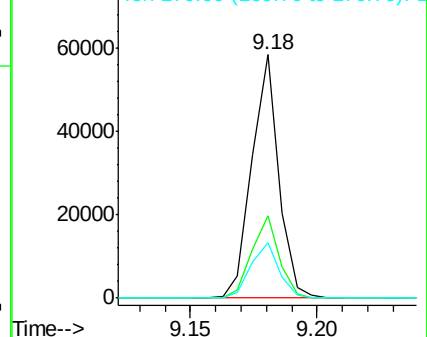
172 100

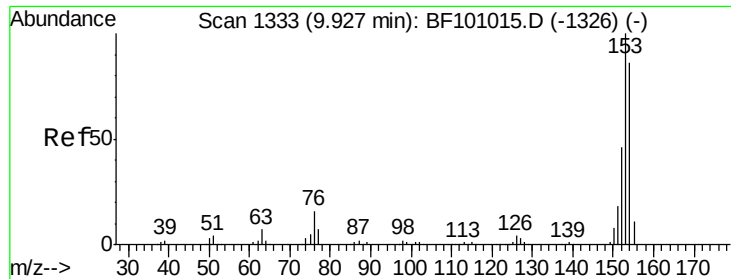
171 34.0 29.7 44.5

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





#51

Acenaphthene

Concen: 8.264 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

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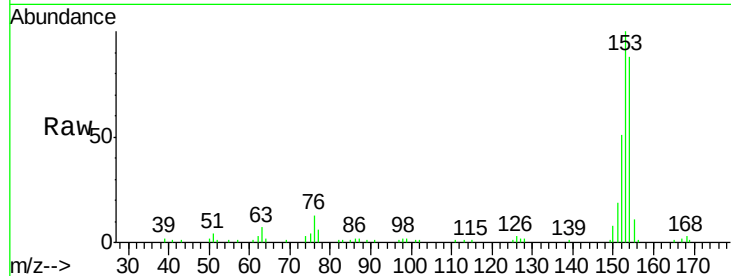
Tot Ion:154 Resp: 38794

Ion Ratio Lower Upper

154 100

153 113.1 91.2 136.8

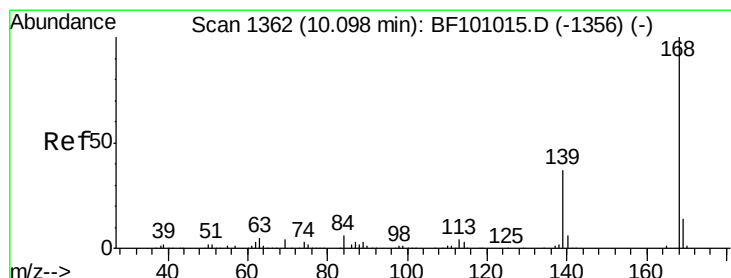
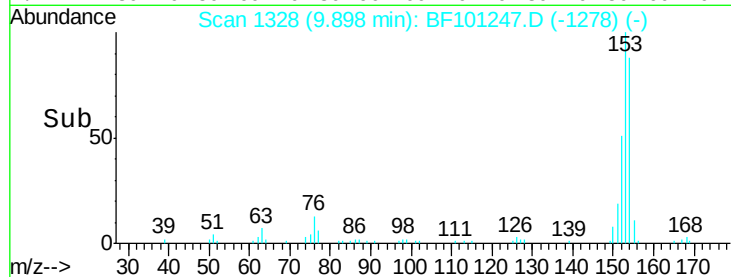
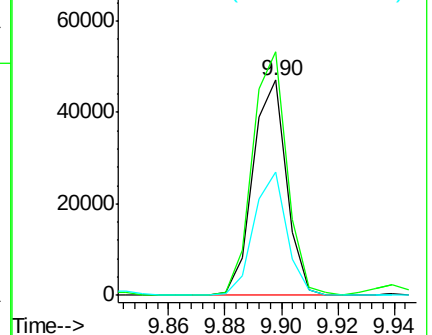
152 57.5 43.8 65.8



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



#54

Dibenzofuran

Concen: 7.549 ng

RT: 10.07 min Scan# 1357

Delta R.T. -0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

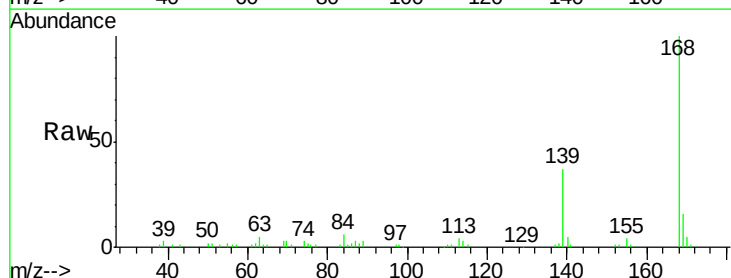
Tgt Ion:168 Resp: 51071

Ion Ratio Lower Upper

168 100

139 36.6 30.1 45.1

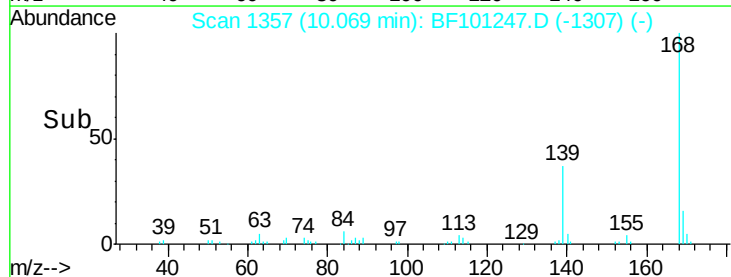
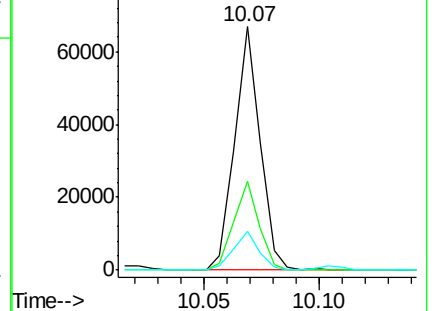
169 15.9 10.9 16.3

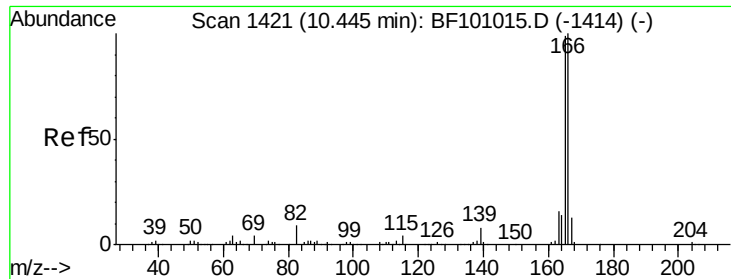


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

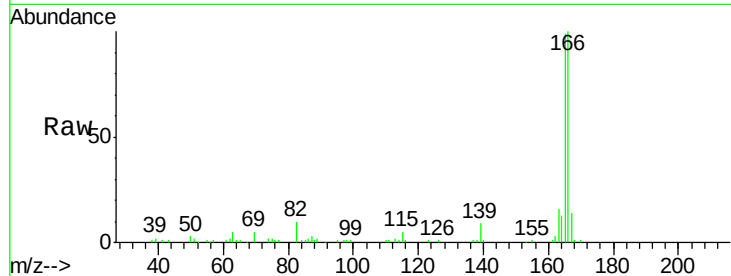




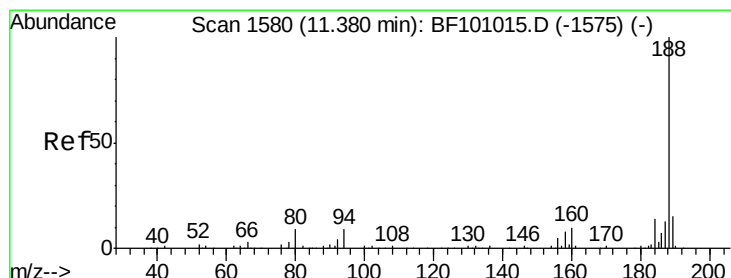
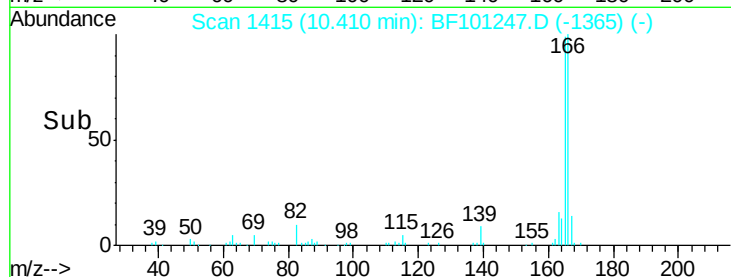
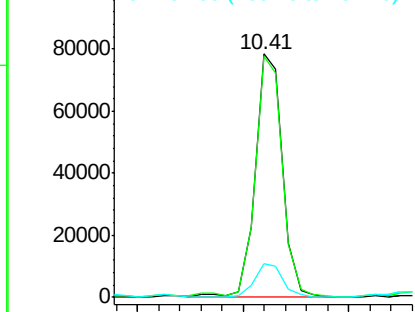
#57
Fluorene
 Concen: 12.811 ng
 RT: 10.41 min Scan# 1415
 Delta R.T. -0.01 min
 Lab File: BF101247.D
 Acq: 8 Dec 2017 20:25

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-120717-A

Tot Ion:166 Resp: 70450
 Ion Ratio Lower Upper
 166 100
 165 99.2 79.8 119.8
 167 13.6 10.6 16.0

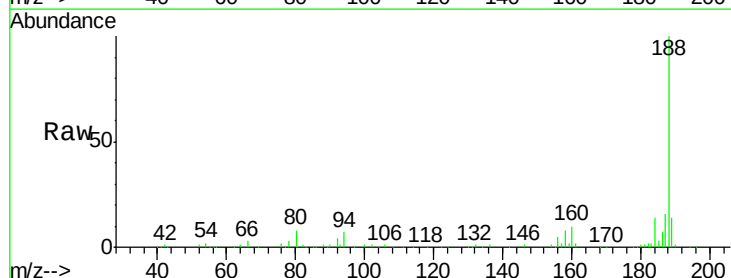


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

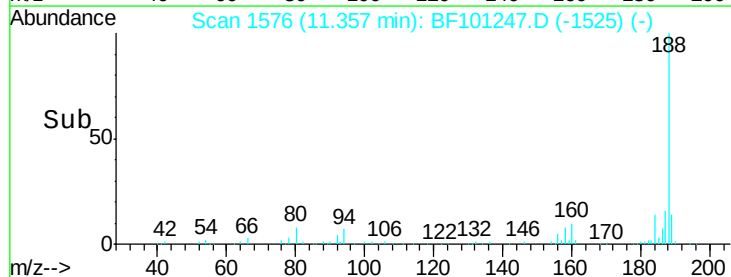
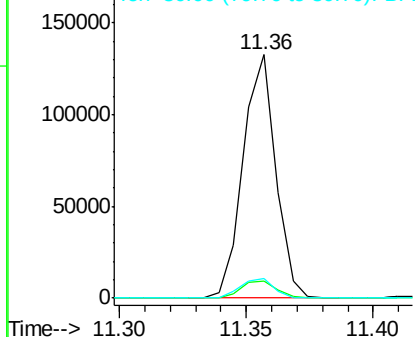


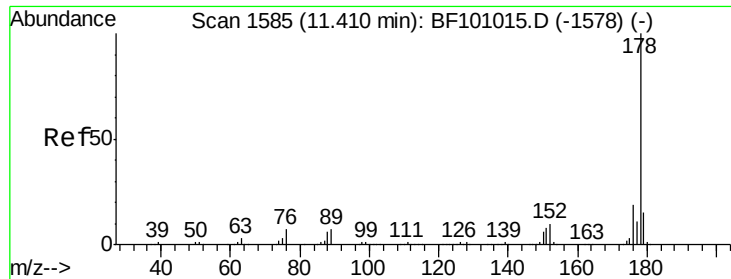
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: BF101247.D
 Acq: 8 Dec 2017 20:25

Tgt Ion:188 Resp: 119062
 Ion Ratio Lower Upper
 188 100
 94 6.9 8.5 12.7#
 80 7.9 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

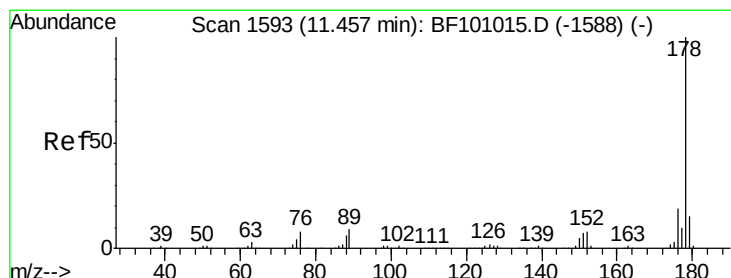
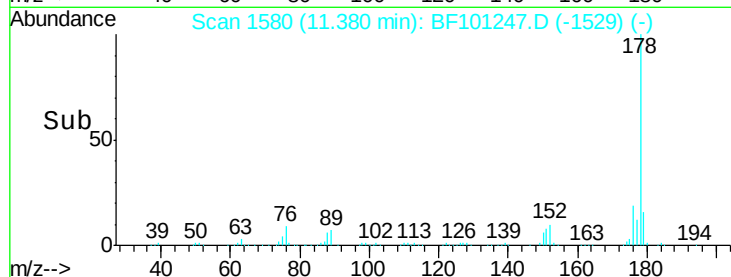
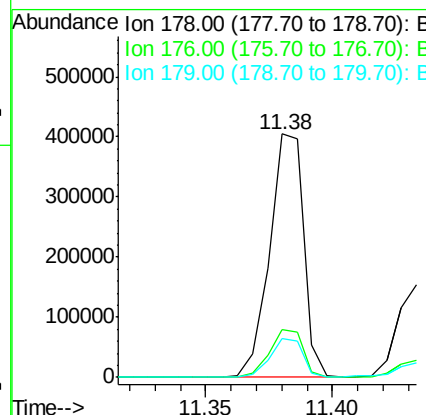
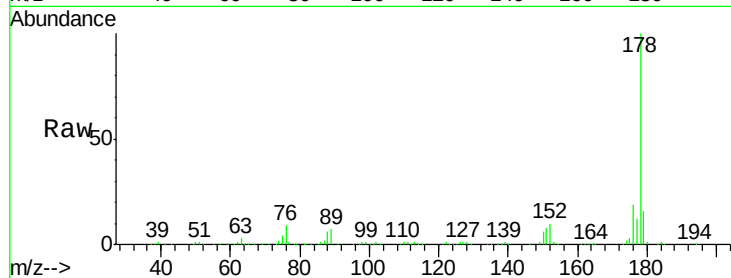




#70
Phenanthrene
Concen: 58.196 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.00 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

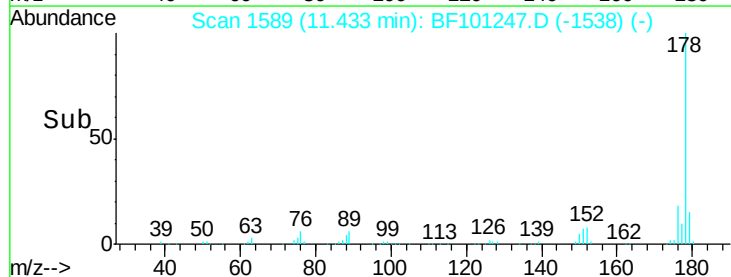
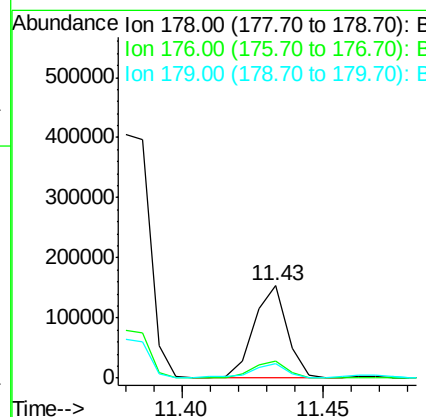
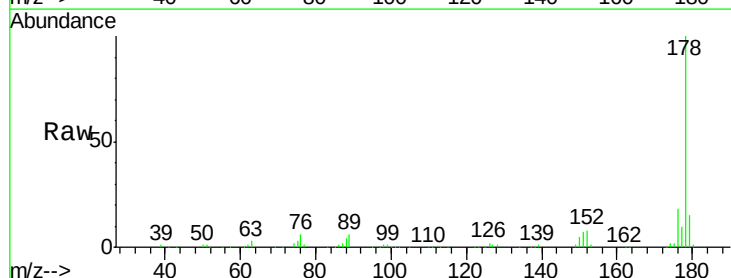
Instrument :
BNA_F
ClientSampleId :
OR-03-120717-A

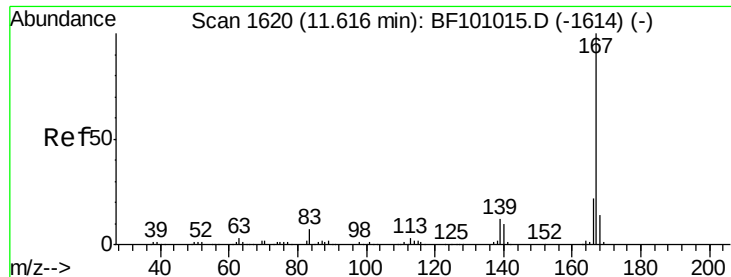
Tot Ion:178 Resp: 381571
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 16.0 13.0 19.6



#71
Anthracene
Concen: 18.773 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.00 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

Tgt Ion:178 Resp: 124574
Ion Ratio Lower Upper
178 100
176 18.4 15.4 23.2
179 15.3 12.6 19.0





#72

Carbazole

Concen: 4.641 ng

RT: 11.59 min Scan# 1615

Delta R.T. -0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

Instrument :

BNA_F

ClientSampleId :

OR-03-120717-A

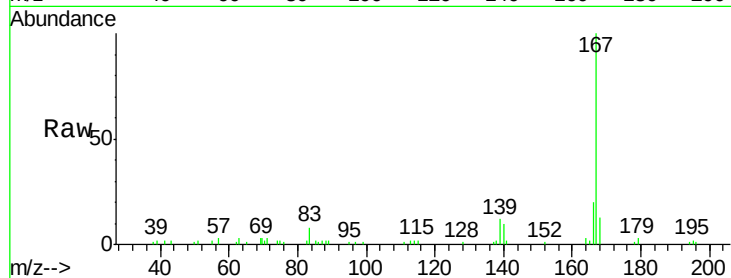
Tot Ion:167 Resp: 28141

Ion Ratio Lower Upper

167 100

166 20.3 17.6 26.4

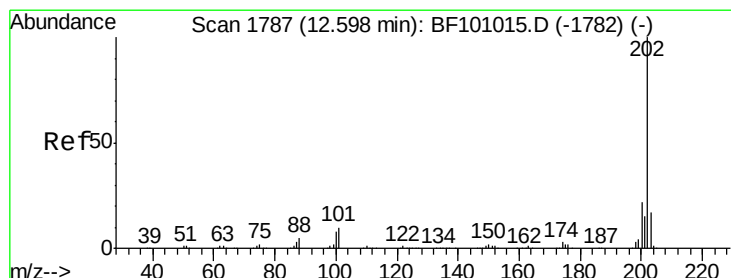
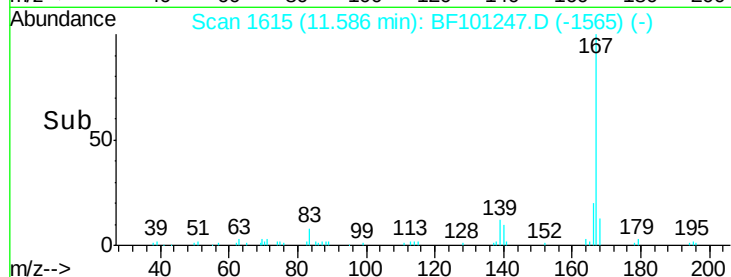
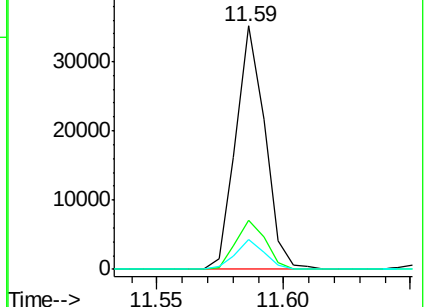
139 12.4 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 56.893 ng

RT: 12.57 min Scan# 1783

Delta R.T. 0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

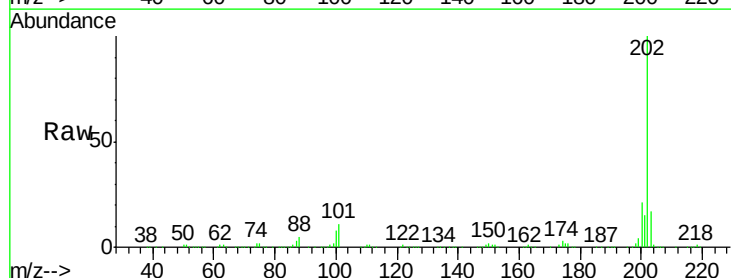
Tgt Ion:202 Resp: 413500

Ion Ratio Lower Upper

202 100

101 11.0 0.0 34.1

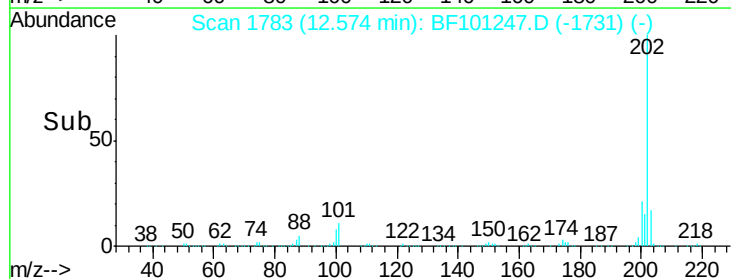
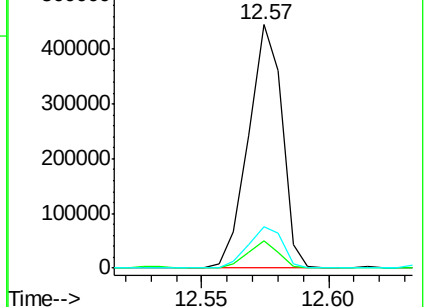
203 16.9 0.0 38.1

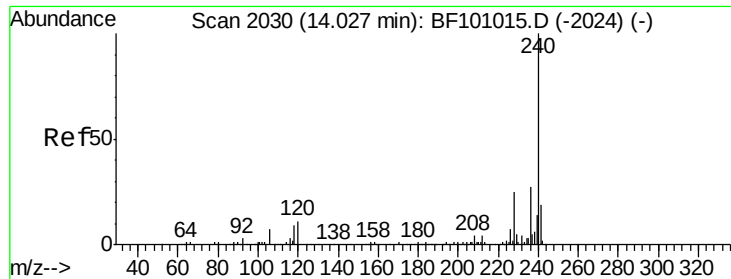


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.00 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

Instrument :

BNA_F

ClientSampleId :

OR-03-120717-A

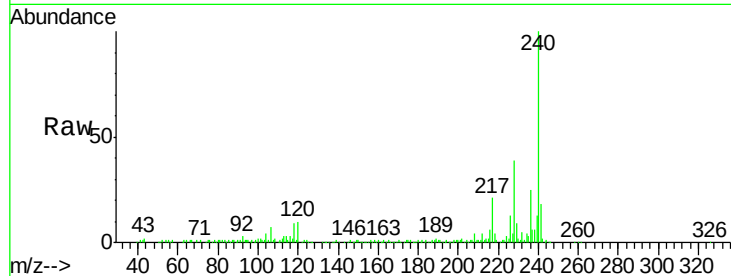
Tot Ion:240 Resp: 107437

Ion Ratio Lower Upper

240 100

120 10.2 9.5 14.3

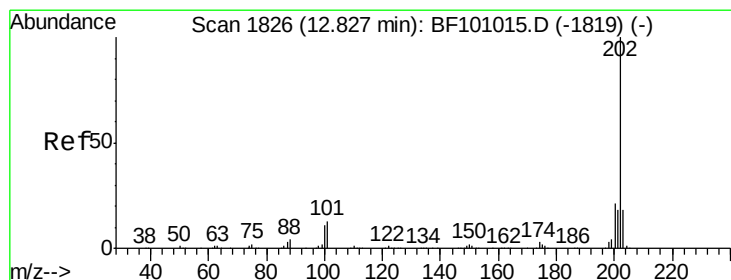
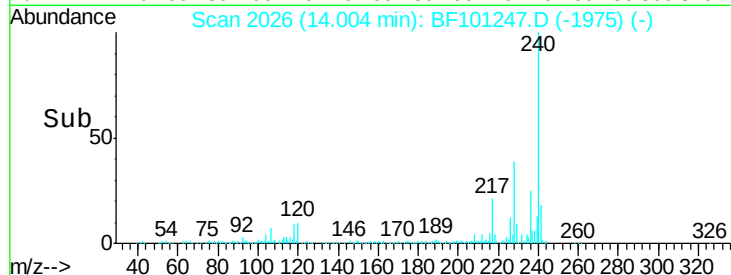
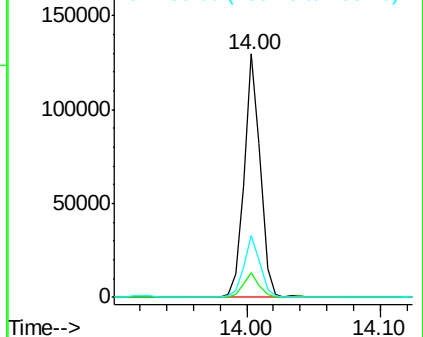
236 25.3 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 45.000 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.00 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

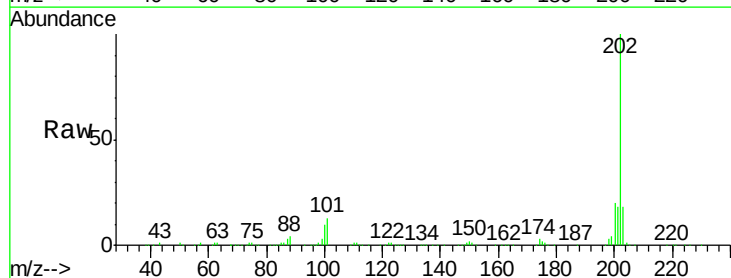
Tgt Ion:202 Resp: 333610

Ion Ratio Lower Upper

202 100

200 20.3 17.4 26.2

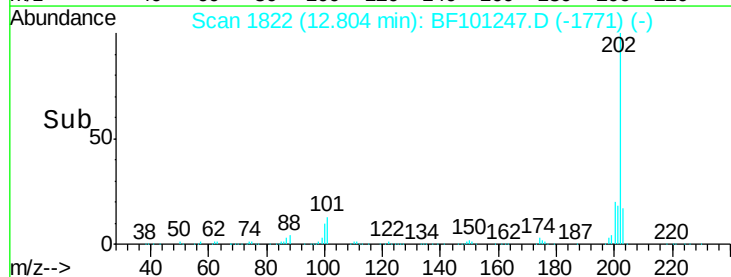
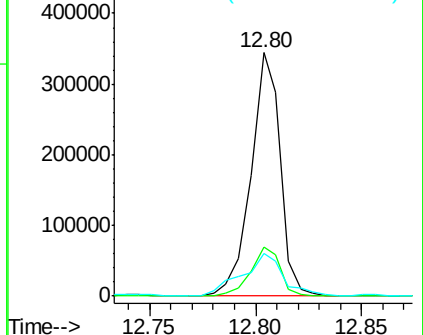
203 17.7 14.3 21.5

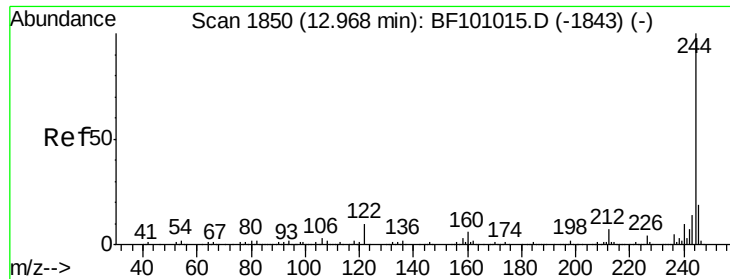


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

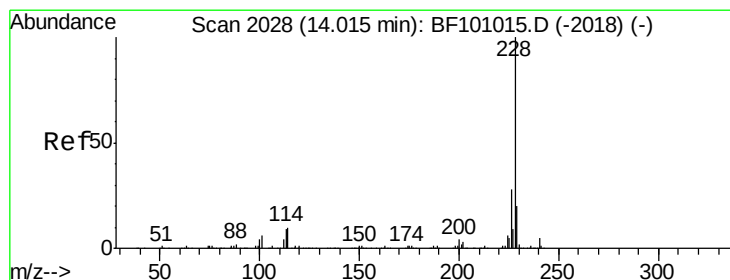
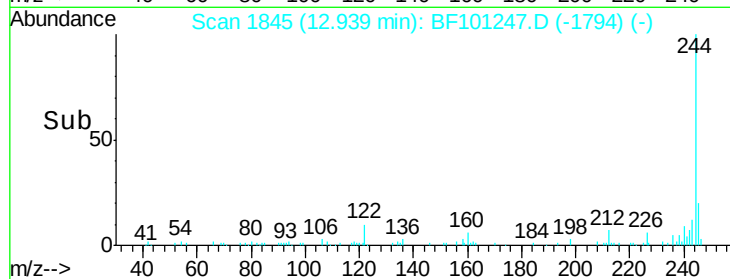
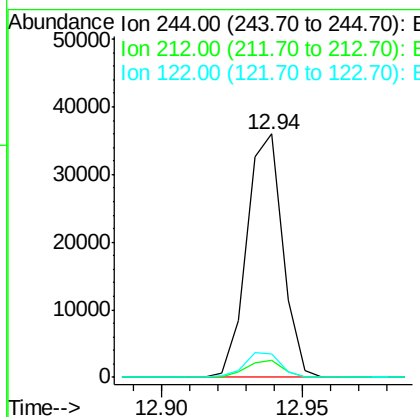
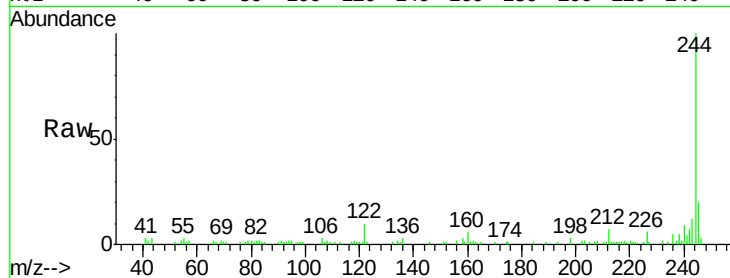




#78
 Terphenyl-d14
 Concen: 6.484 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.00 min
 Lab File: BF101247.D
 Acq: 8 Dec 2017 20:25

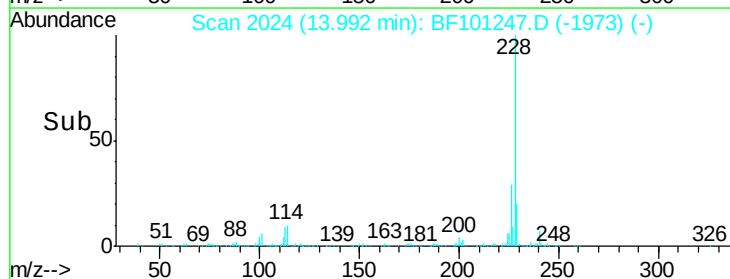
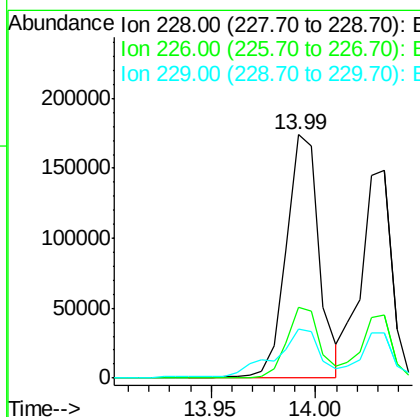
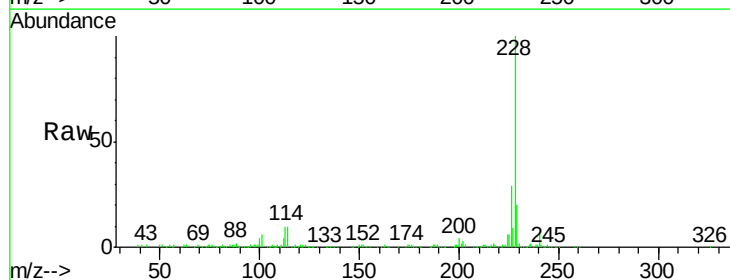
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-120717-A

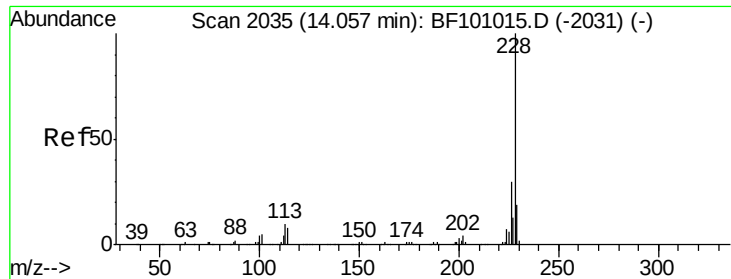
Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	9.8	11.0	16.4



#80
 Benzo(a)anthracene
 Concen: 27.946 ng m
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.00 min
 Lab File: BF101247.D
 Acq: 8 Dec 2017 20:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	33.8
229	20.3	15.8	23.6





#82

Chrysene

Concen: 24.191 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

Instrument :

BNA_F

ClientSampleId :

OR-03-120717-A

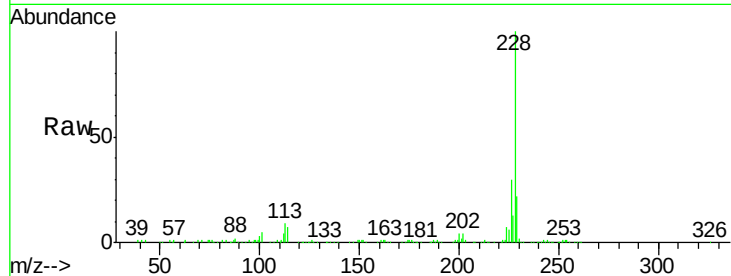
Tot Ion:228 Resp: 152401

Ion Ratio Lower Upper

228 100

226 30.2 25.0 37.6

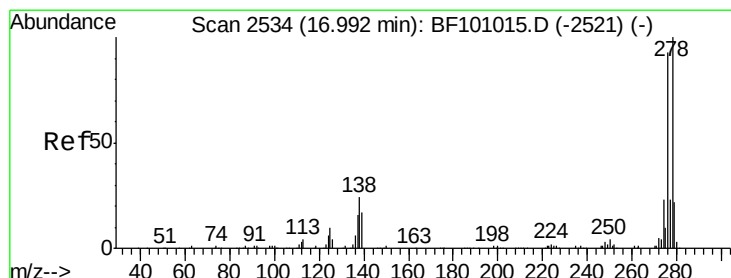
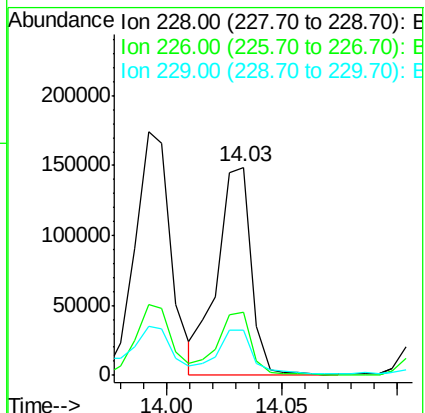
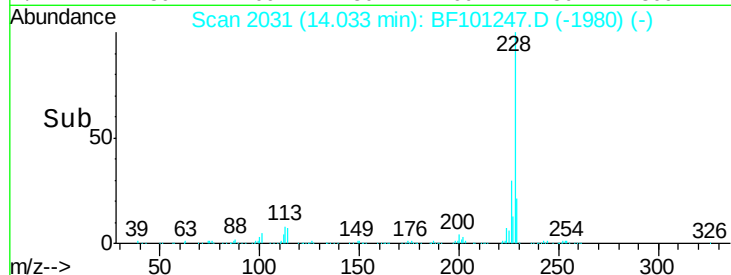
229 21.5 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.336 ng

RT: 16.95 min Scan# 2527

Delta R.T. 0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

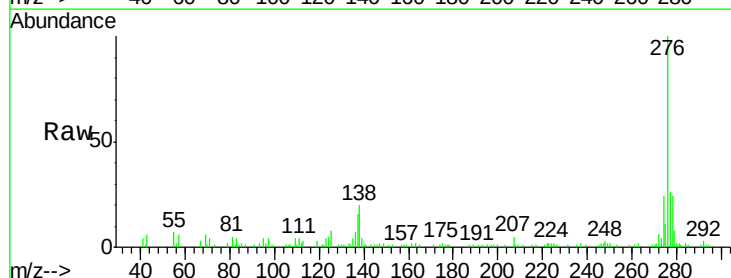
Tgt Ion:276 Resp: 63492

Ion Ratio Lower Upper

276 100

138 19.4 25.0 37.6#

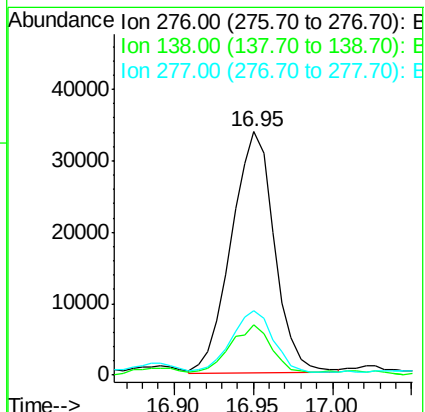
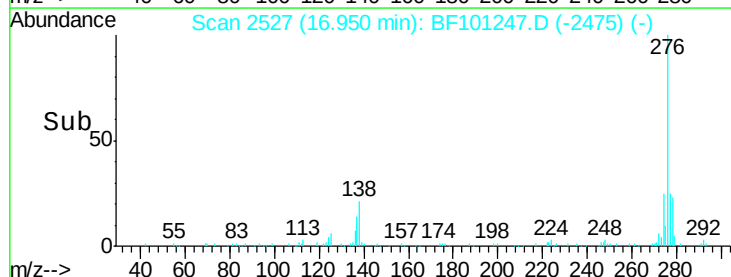
277 24.8 20.1 30.1

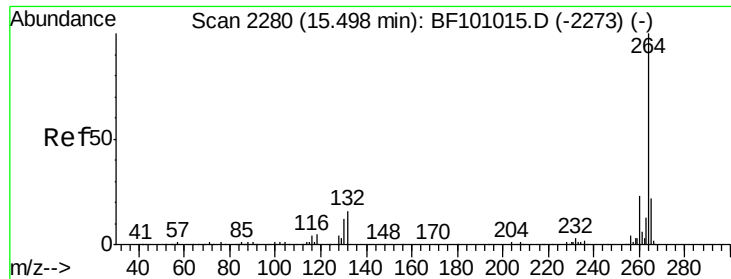


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

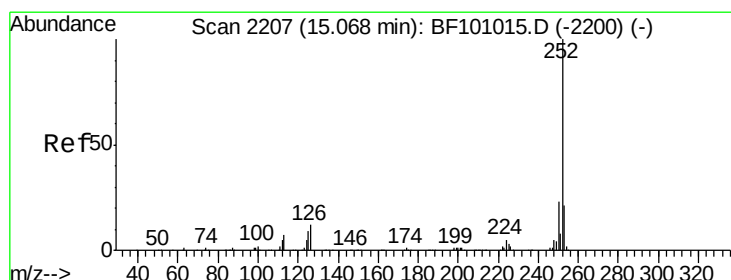
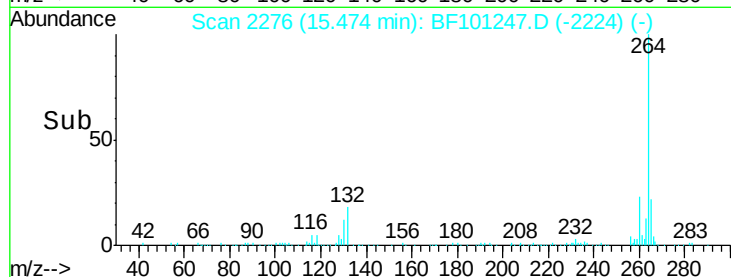
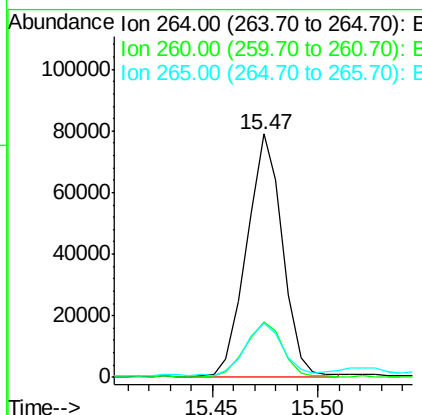
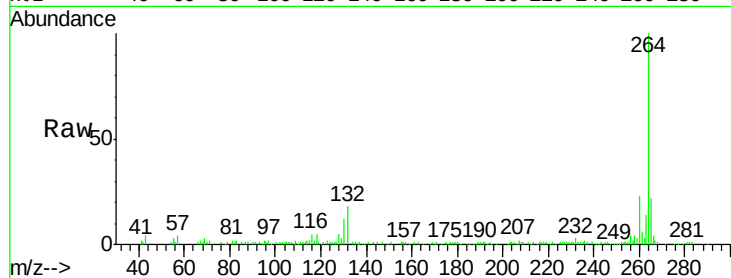




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

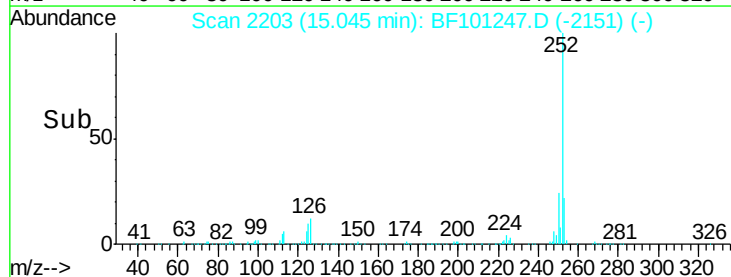
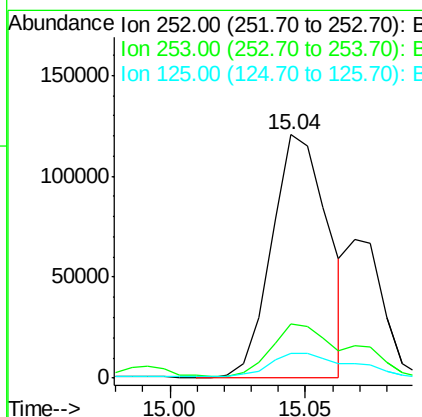
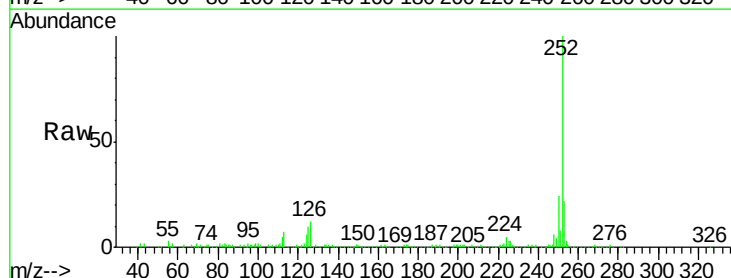
Instrument :
BNA_F
ClientSampleId :
OR-03-120717-A

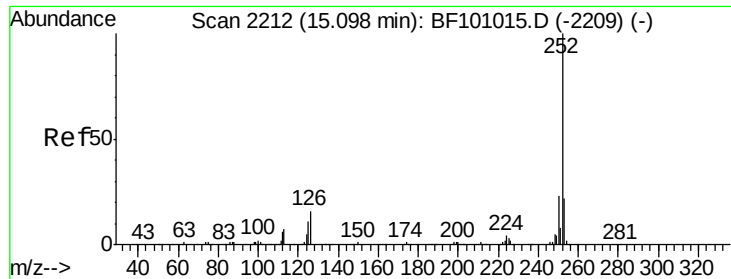
Tot Ion:264 Resp: 93637
Ion Ratio Lower Upper
264 100
260 22.7 19.2 28.8
265 22.0 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 31.245 ng m
RT: 15.04 min Scan# 2203
Delta R.T. 0.01 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

Tgt Ion:252 Resp: 175241
Ion Ratio Lower Upper
252 100
253 22.5 17.0 25.6
125 10.3 9.0 13.6

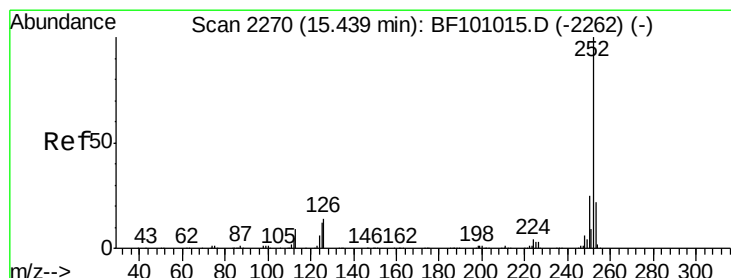
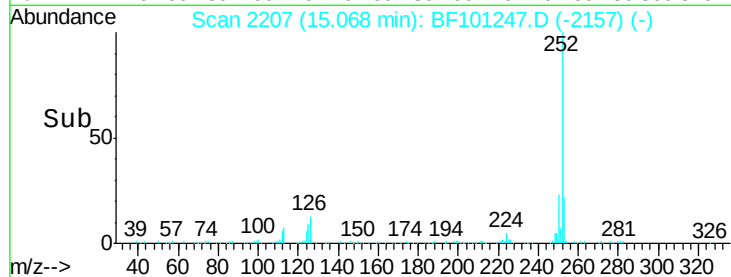
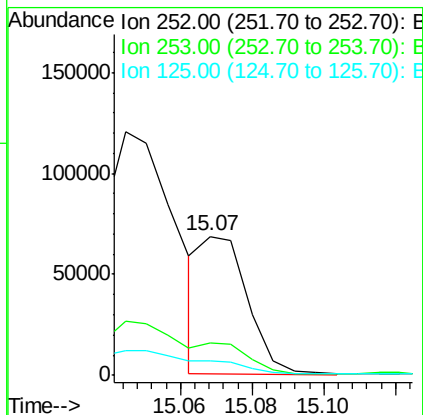
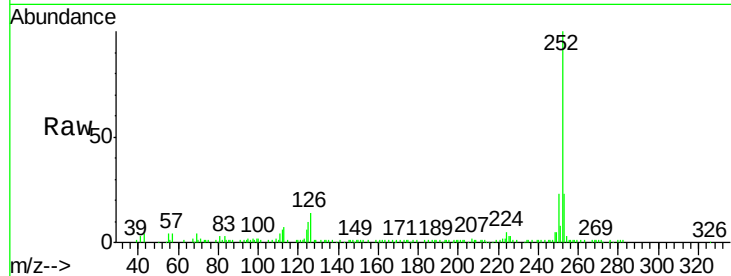




#88
Benzo(k)fluoranthene
Concen: 11.053 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

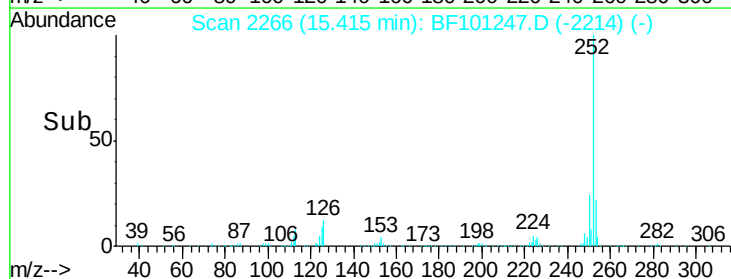
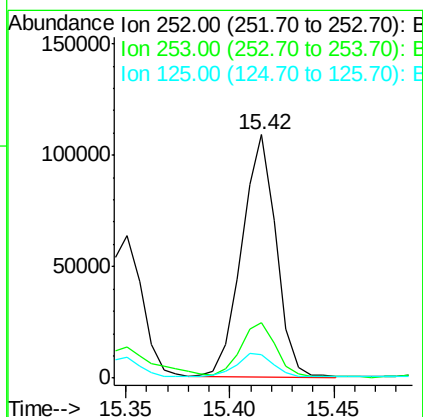
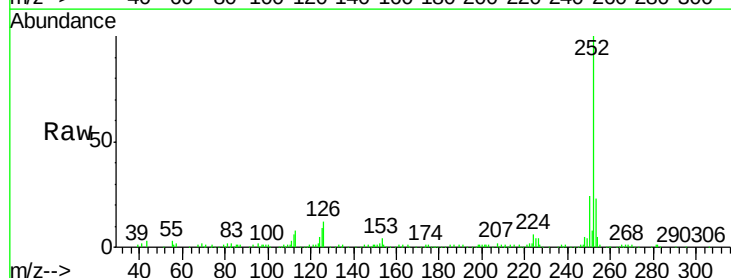
Instrument :
BNA_F
ClientSampleId :
OR-03-120717-A

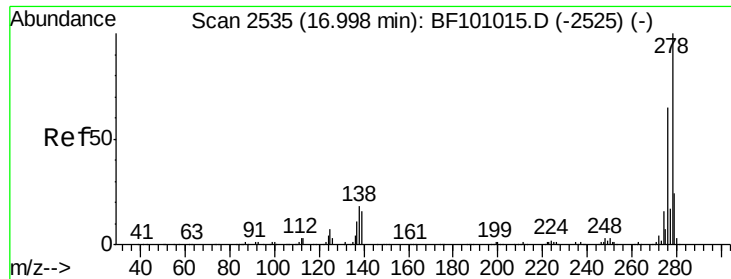
Tot Ion:252 Resp: 61078
Ion Ratio Lower Upper
252 100
253 23.3 17.9 26.9
125 10.2 10.2 15.2



#89
Benzo(a)pyrene
Concen: 24.733 ng m
RT: 15.42 min Scan# 2266
Delta R.T. 0.01 min
Lab File: BF101247.D
Acq: 8 Dec 2017 20:25

Tgt Ion:252 Resp: 126110
Ion Ratio Lower Upper
252 100
253 22.7 17.1 25.7
125 9.5 9.8 14.6#





#90

Dibenzo(a,h)anthracene

Concen: 3.687 ng

RT: 16.95 min Scan# 2527

Delta R.T. -0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

Instrument :

BNA_F

ClientSampleId :

OR-03-120717-A

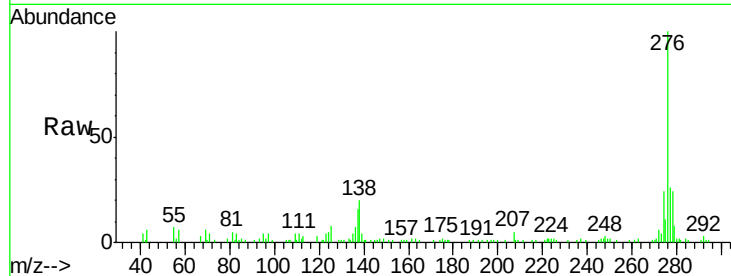
Tot Ion:278 Resp: 16572

Ion Ratio Lower Upper

278 100

139 16.5 15.9 23.9

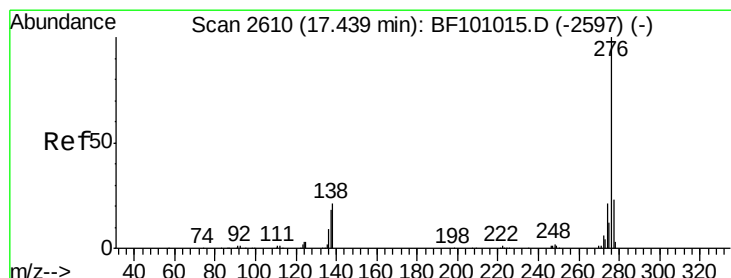
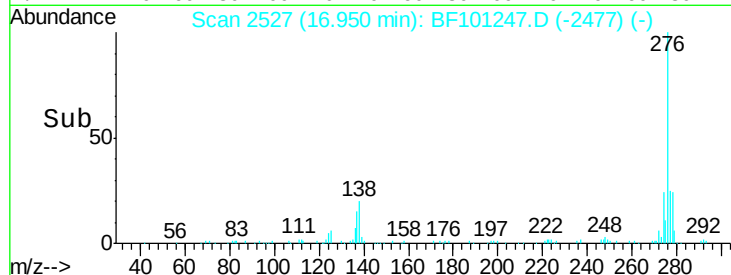
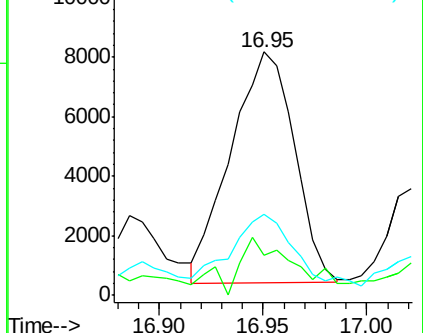
279 33.3 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 13.529 ng

RT: 17.40 min Scan# 2603

Delta R.T. 0.01 min

Lab File: BF101247.D

Acq: 8 Dec 2017 20:25

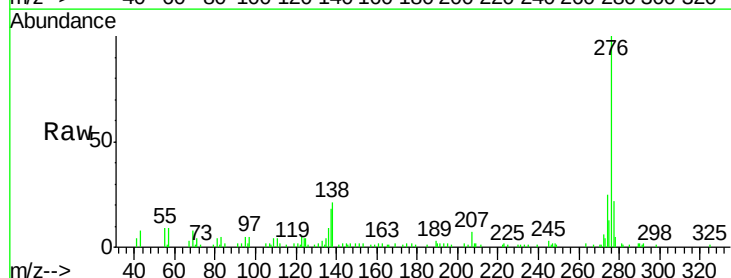
Tgt Ion:276 Resp: 57315

Ion Ratio Lower Upper

276 100

277 22.2 17.9 26.9

138 21.5 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

