

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051218\
 Data File : BF105349.D
 Acq On : 12 May 2018 20:24
 Operator : JU/SJ
 Sample : J2706-02DL 50X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 14 06:53:44 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 11 17:15:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	142455	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	612208	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	278110	20.00	ng	0.00
63) Phenanthrene-d10	11.31	188	503149	20.00	ng	0.00
75) Chrysene-d12	14.02	240	299774	20.00	ng	0.00
86) Perylene-d12	15.58	264	363666	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	17238	1.82	ng	0.00
7) Phenol-d6	6.42	99	31606	2.81	ng	0.00
23) Nitrobenzene-d5	7.35	82	20507	1.95	ng	-0.01
41) 2,4,6-Tribromophenol	10.61	330	6534	1.82	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	48864	2.53	ng	-0.01
78) Terphenyl-d14	12.90	244	46647	3.35	ng	0.00

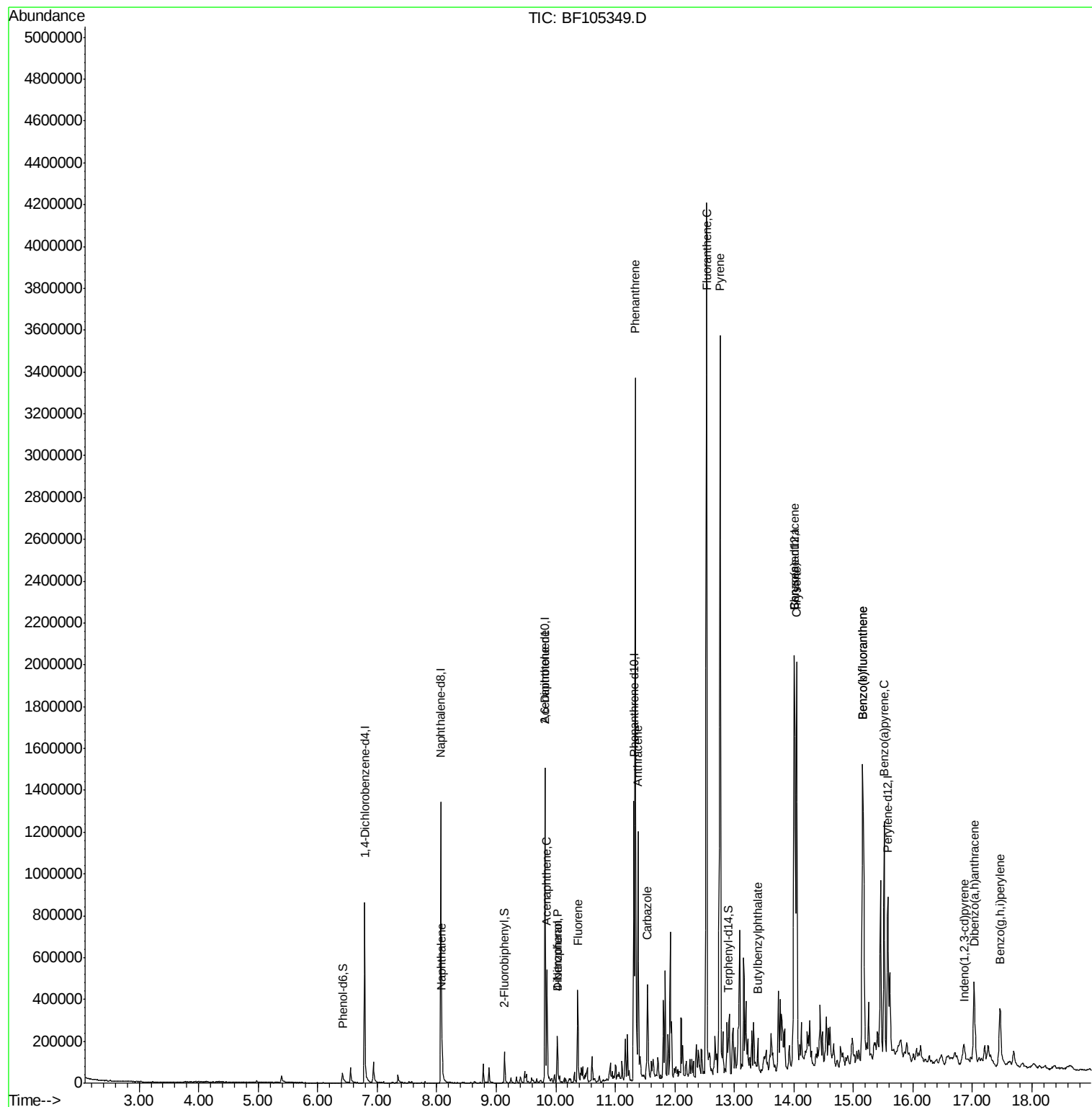
Target Compounds				Qvalue		
31) Naphthalene	8.09	128	75847	2.54	ng	98
50) 2,6-Dinitrotoluene	9.82	165	37105	7.89	ng	# 26
51) Acenaphthene	9.85	154	111999	5.95	ng	97
54) Dibenzofuran	10.03	168	87329	3.46	ng	99
55) 4-Nitrophenol	10.03	139	34158	7.71	ng	# 10
57) Fluorene	10.37	166	123974	6.48	ng	99
70) Phenanthrene	11.34	178	1336401	47.13	ng	99
71) Anthracene	11.39	178	475826	16.21	ng	99
72) Carbazole	11.54	167	201140	7.83	ng	99
74) Fluoranthene	12.53	202	1985284	70.43	ng	99
77) Pyrene	12.76	202	1717160	74.23	ng	100
79) Butylbenzylphthalate	13.39	149	29776	2.92	ng	99
80) Benzo(a)anthracene	14.00	228	825950	47.19	ng	98
82) Chrysene	14.04	228	805468	46.70	ng	99
85) Indeno(1,2,3-cd)pyrene	16.87	276	51611	3.29	ng	97
87) Benzo(b)fluoranthene	15.16	252	1174063	54.16	ng	96
88) Benzo(k)fluoranthene	15.16	252	1174063	56.01	ng	99
89) Benzo(a)pyrene	15.52	252	589558	29.21	ng	98
90) Dibenzo(a,h)anthracene	17.04	278	81867	4.33	ng	97
91) Benzo(a,h,i)perylene	17.46	276	236904	13.02	ng	97

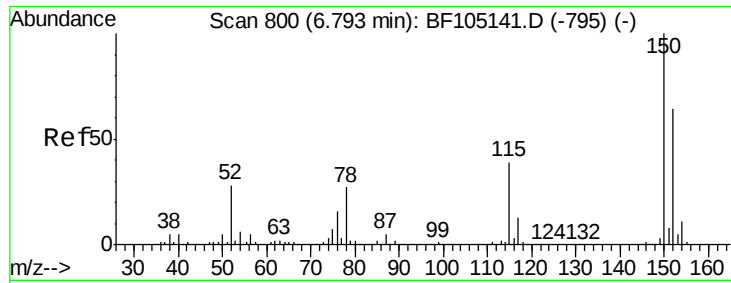
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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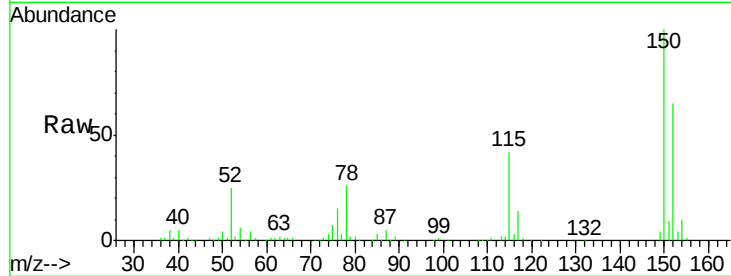


#1

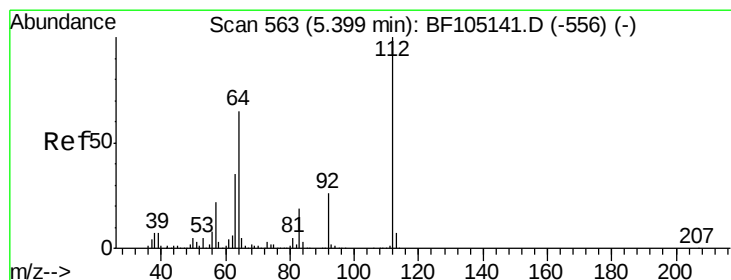
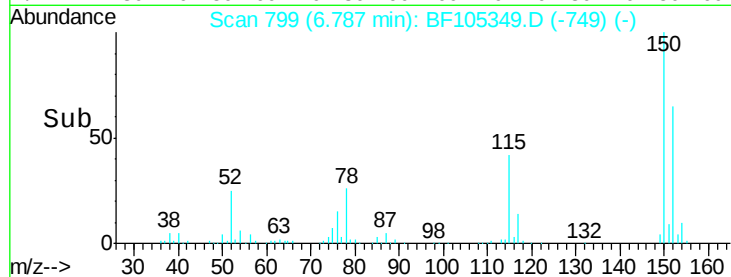
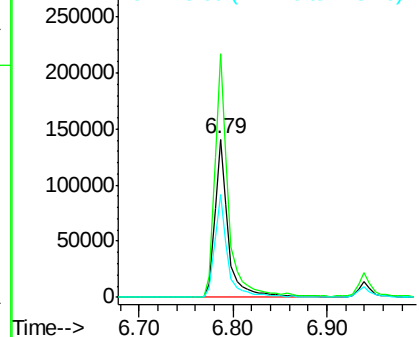
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.79 min Scan# 799
Delta R.T. -0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 142455
Ion Ratio Lower Upper
152 100
150 153.7 124.6 186.8
115 64.9 50.1 75.1



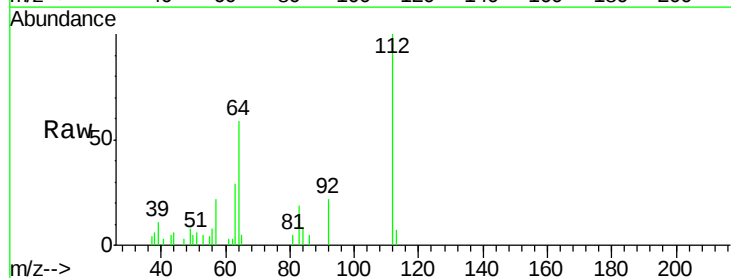
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



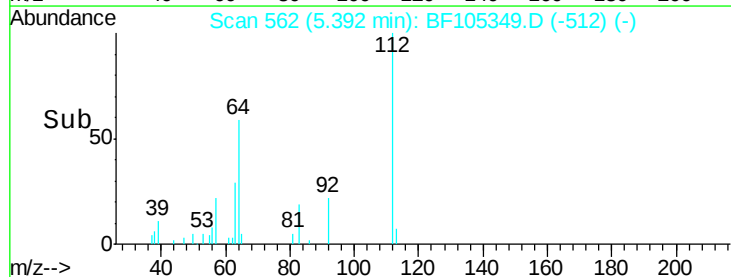
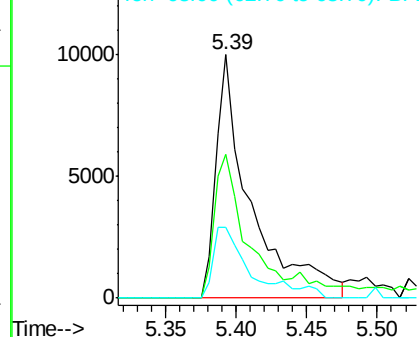
#5

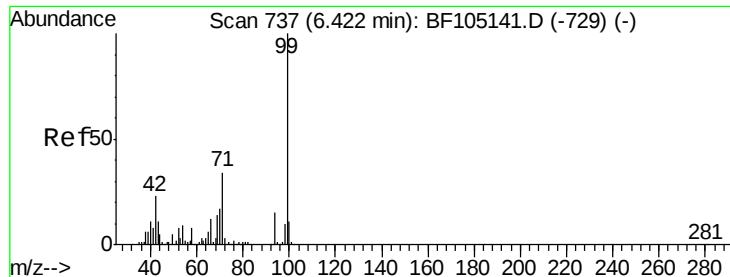
2-Fluorophenol
Concen: 1.82 ng
RT: 5.39 min Scan# 562
Delta R.T. -0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Tgt Ion:112 Resp: 17238
Ion Ratio Lower Upper
112 100
64 59.3 47.9 71.9
63 28.9 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: 2.81 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

Instrument :

BNA_F

ClientSampleId :

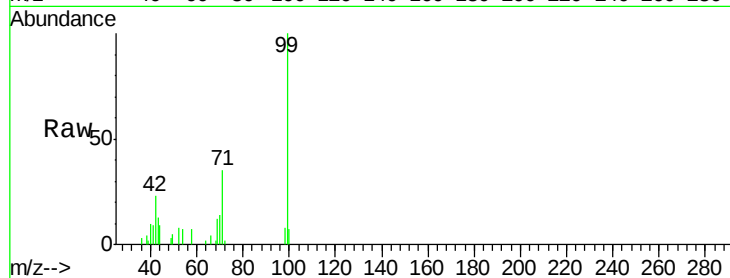
Tot Ion: 99 Resp: 31606

Ion Ratio Lower Upper

99 100

42 23.4 14.5 21.7#

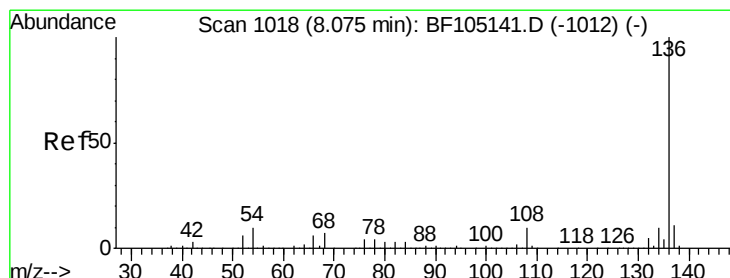
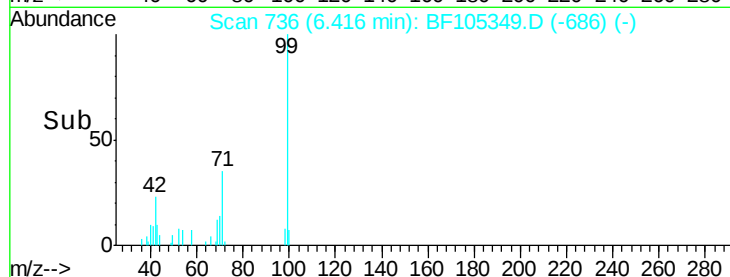
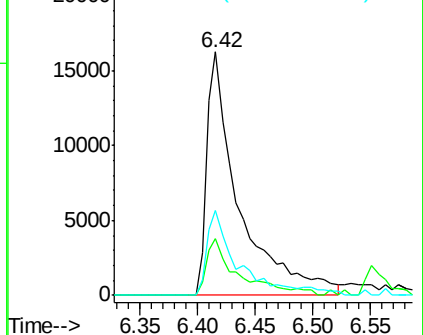
71 34.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.07 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

Tgt Ion: 136 Resp: 612208

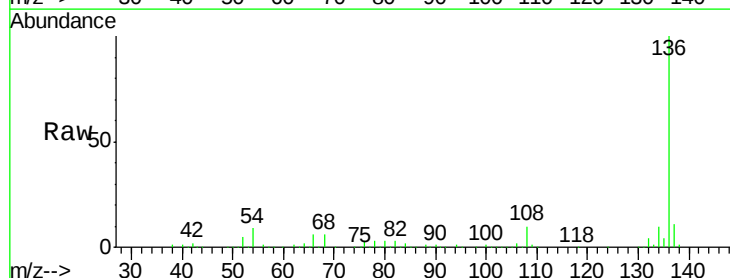
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 9.3 6.6 9.8

68 5.8 5.0 7.4

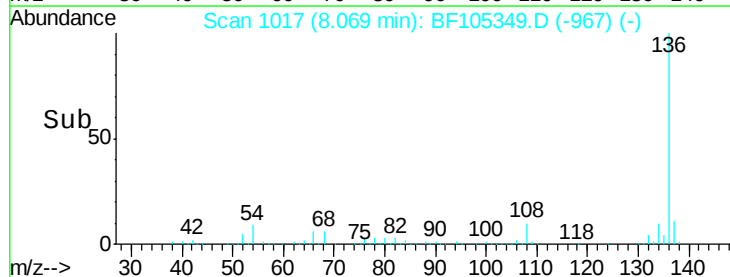
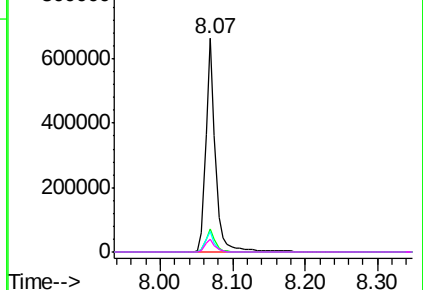


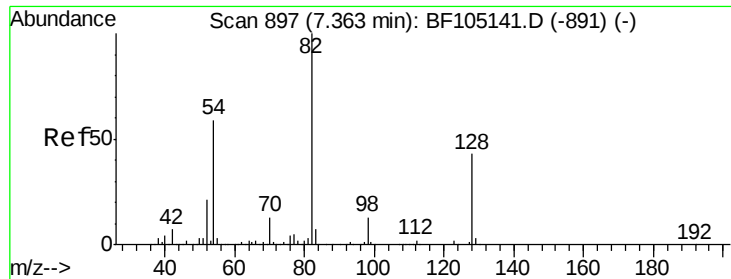
Abundance Ion 136.00 (135.70 to 136.70): E

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

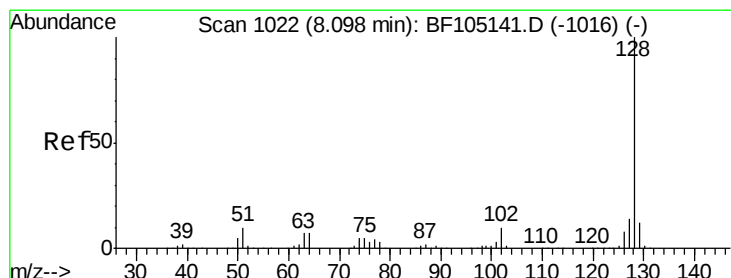
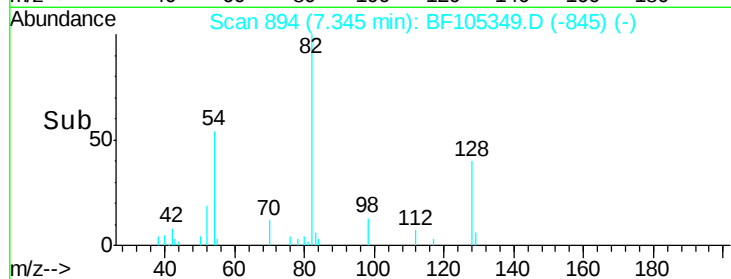
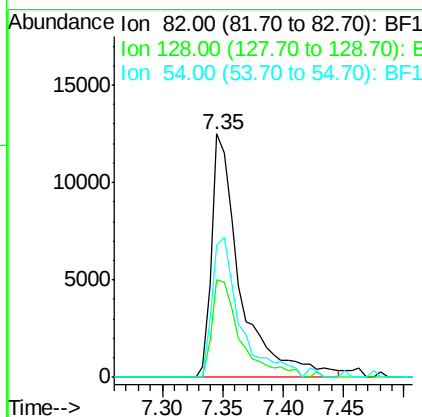
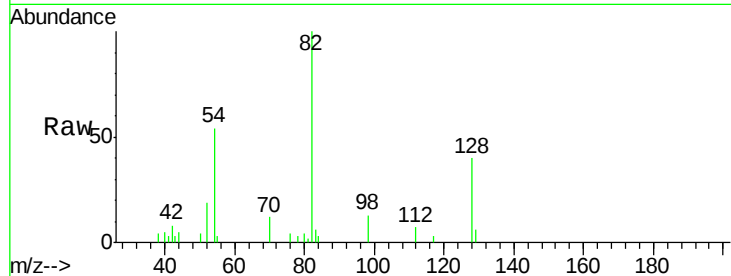




#23
Nitrobenzene-d5
Concen: 1.95 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

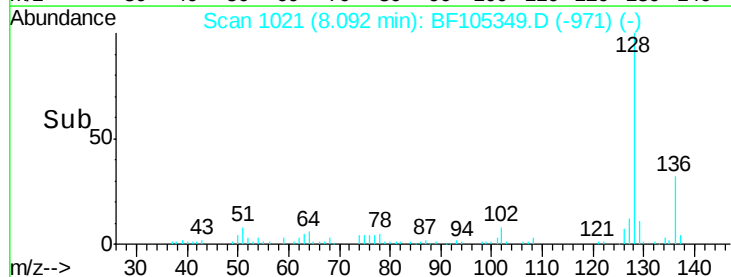
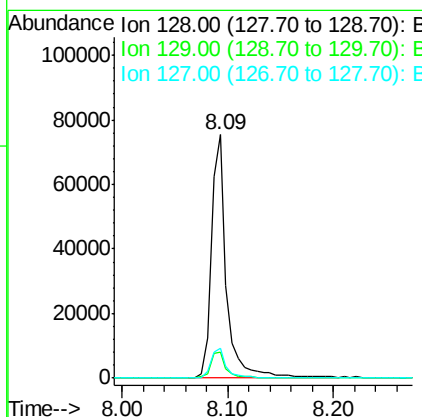
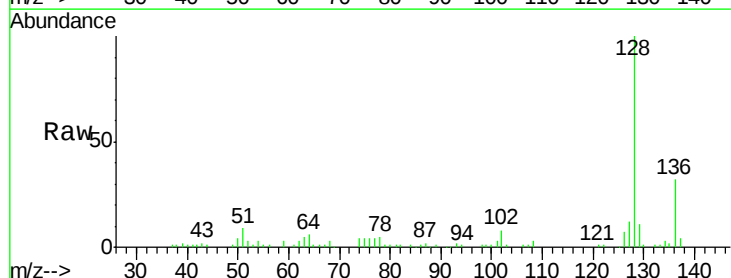
Instrument :
BNA_F
ClientSampleId :

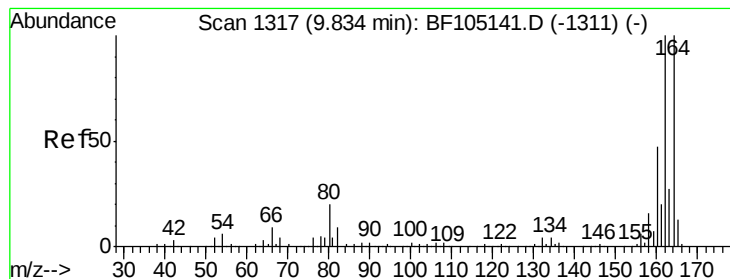
Tot Ion: 82 Resp: 20507
Ion Ratio Lower Upper
82 100
128 40.0 36.1 54.1
54 54.3 41.4 62.2



#31
Naphthalene
Concen: 2.54 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Tgt Ion: 128 Resp: 75847
Ion Ratio Lower Upper
128 100
129 10.7 8.8 13.2
127 12.4 10.9 16.3





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.82 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

Instrument :

BNA_F

ClientSampleId :

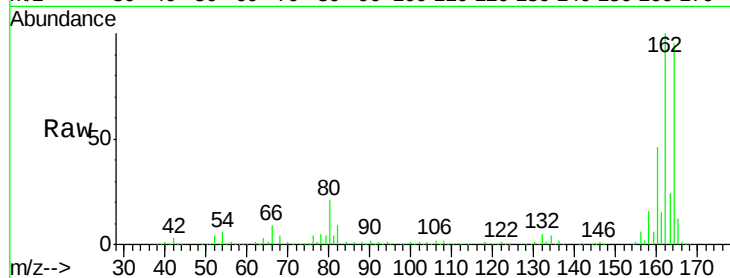
Tot Ion:164 Resp: 278110

Ion Ratio Lower Upper

164 100

162 105.3 86.1 129.1

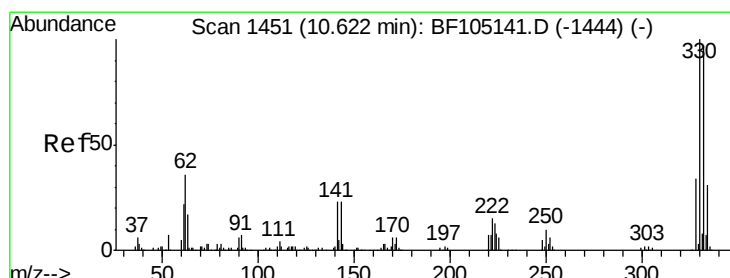
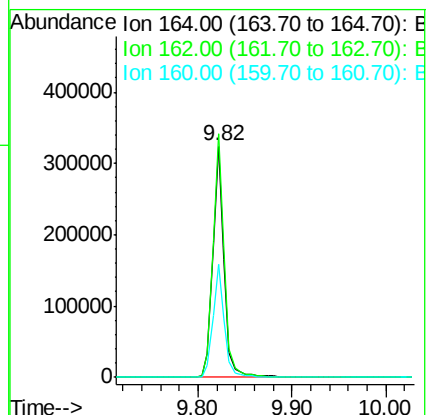
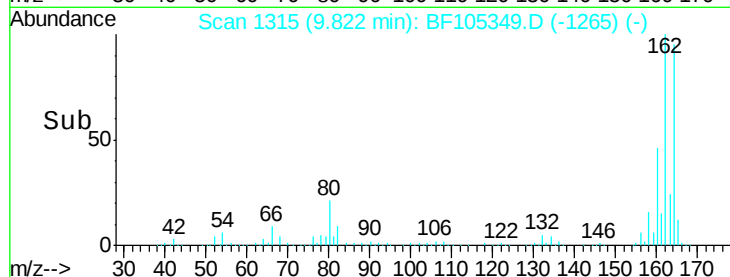
160 48.8 38.3 57.5



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: 1.82 ng

RT: 10.61 min Scan# 1449

Delta R.T. -0.01 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

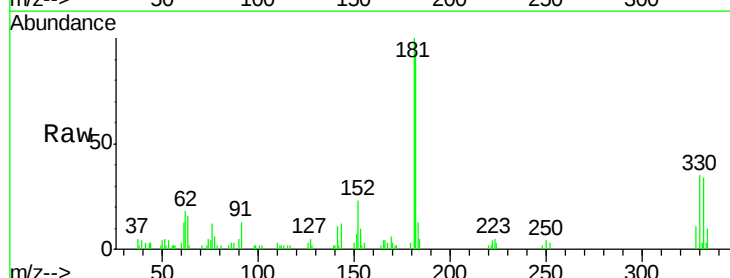
Tgt Ion:330 Resp: 6534

Ion Ratio Lower Upper

330 100

332 91.3 77.0 115.6

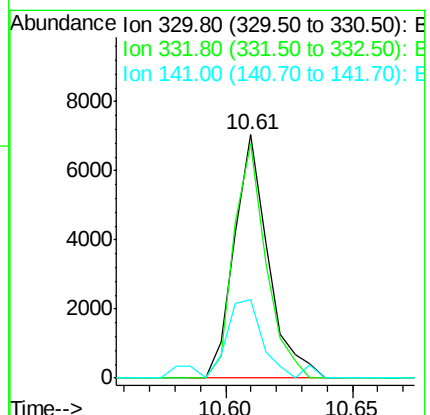
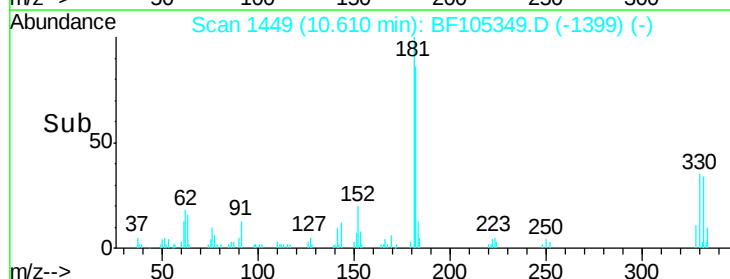
141 39.4 29.9 44.9

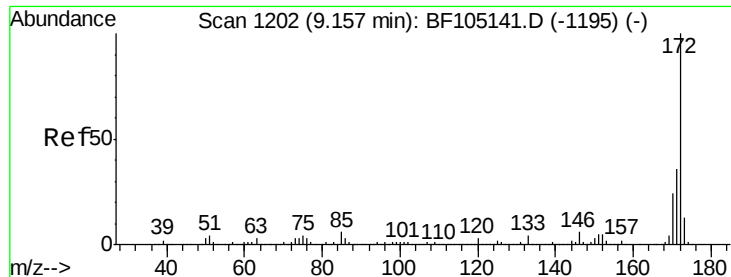


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

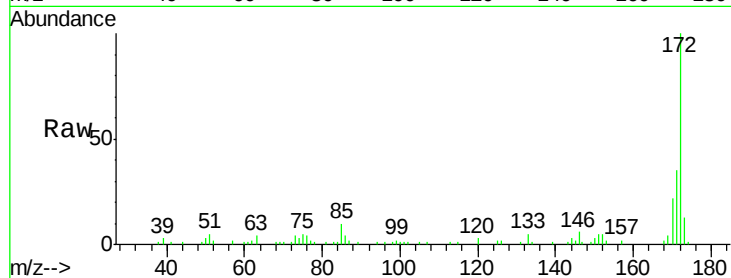




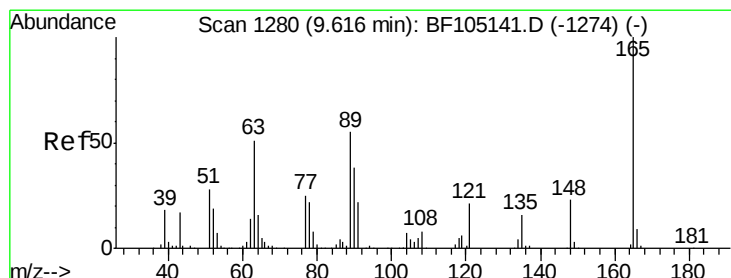
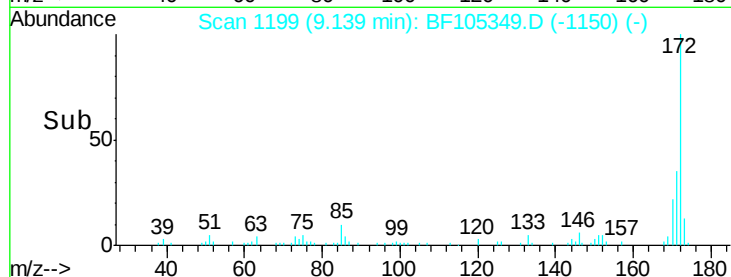
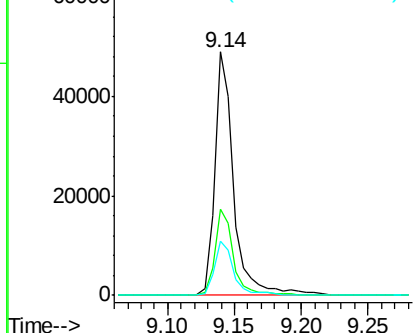
#44
 2-Fluorobiphenyl
 Concen: 2.53 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: BF105349.D
 Acq: 12 May 2018 20:24

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 48864
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.7 44.5
 170 22.4 19.6 29.4

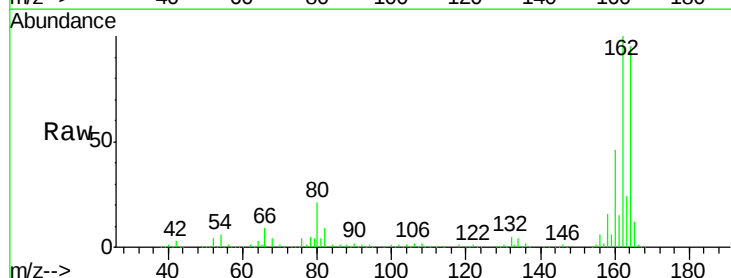


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

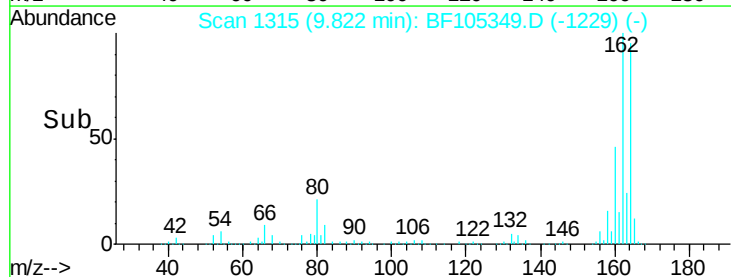
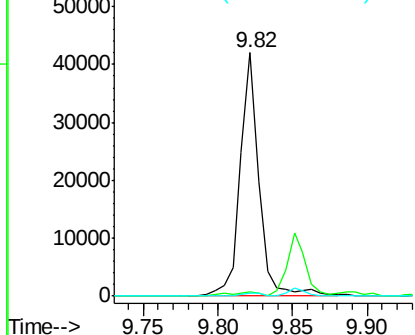


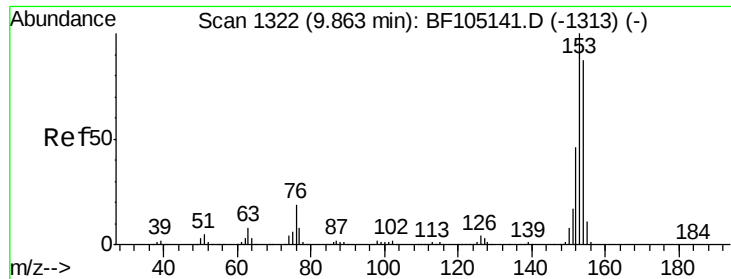
#50
 2,6-Dinitrotoluene
 Concen: 7.89 ng
 RT: 9.82 min Scan# 1315
 Delta R.T. 0.21 min
 Lab File: BF105349.D
 Acq: 12 May 2018 20:24

Tgt Ion:165 Resp: 37105
 Ion Ratio Lower Upper
 165 100
 63 1.8 44.7 67.1#
 89 1.3 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: 5.95 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

Instrument :

BNA_F

ClientSampleId :

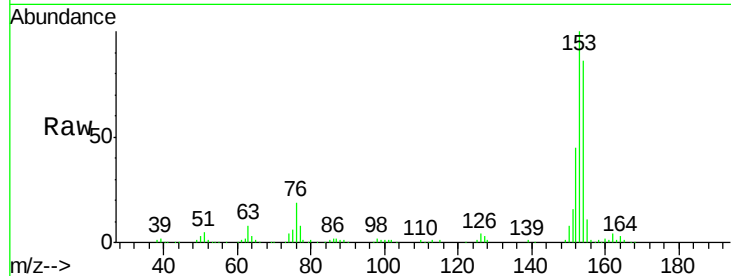
Tot Ion:154 Resp: 111999

Ion Ratio Lower Upper

154 100

153 116.6 91.2 136.8

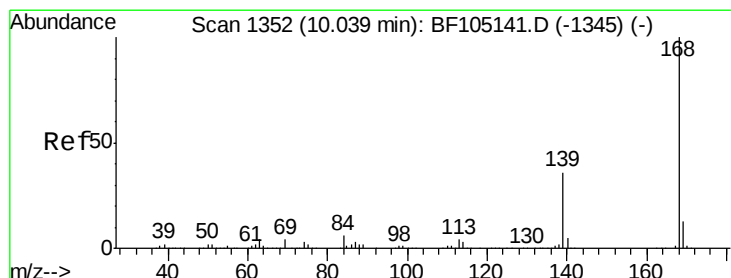
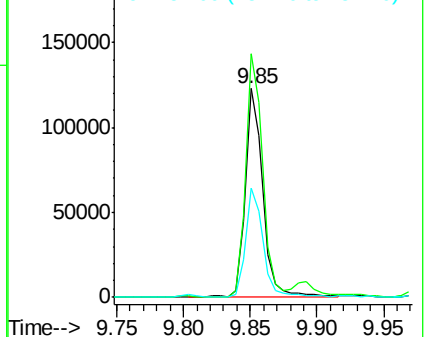
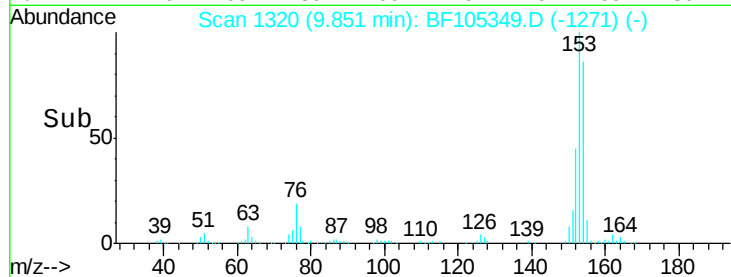
152 52.6 43.8 65.8



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: 3.46 ng

RT: 10.03 min Scan# 1350

Delta R.T. -0.01 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

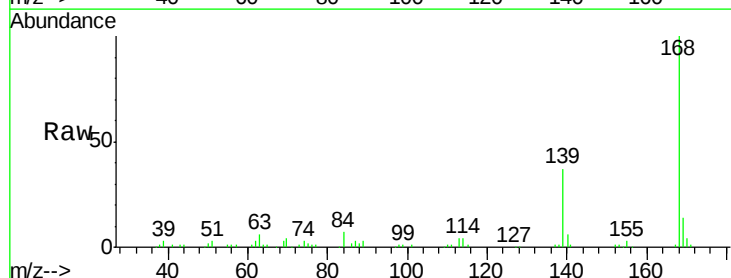
Tgt Ion:168 Resp: 87329

Ion Ratio Lower Upper

168 100

139 37.2 30.1 45.1

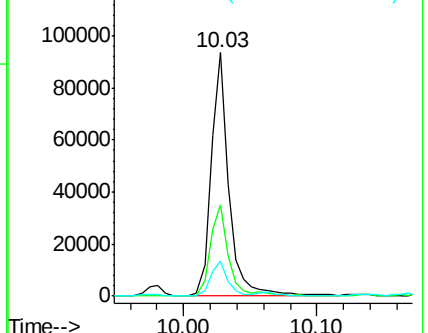
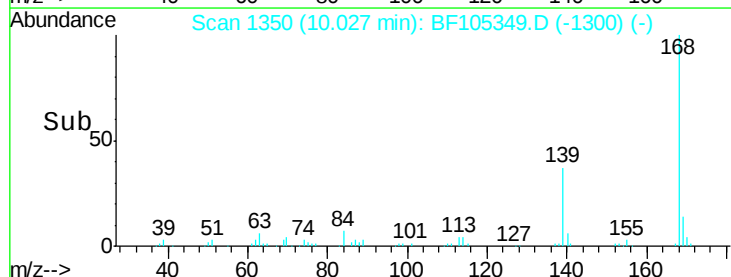
169 14.3 10.9 16.3

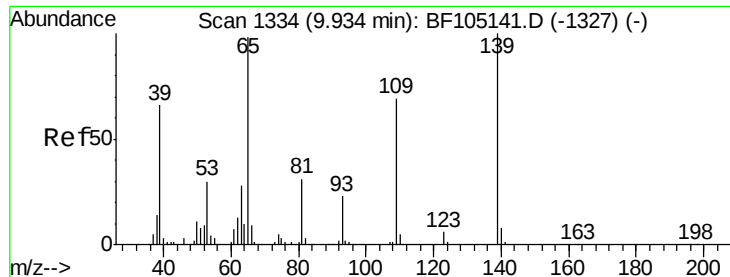


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

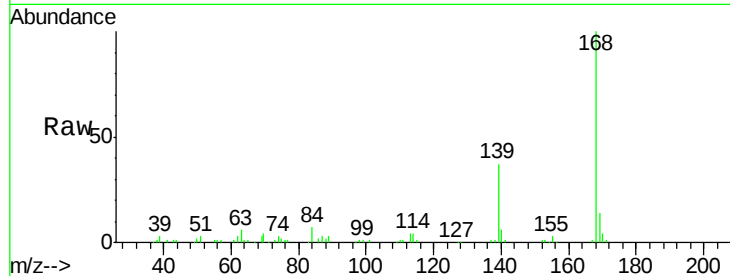




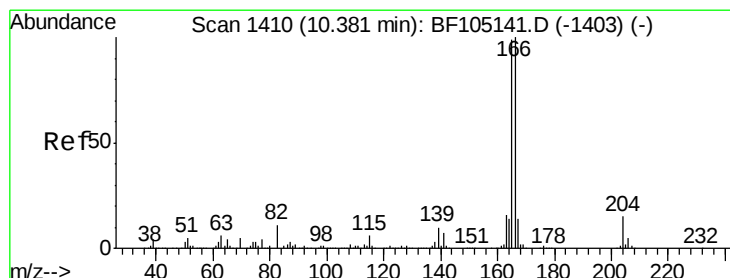
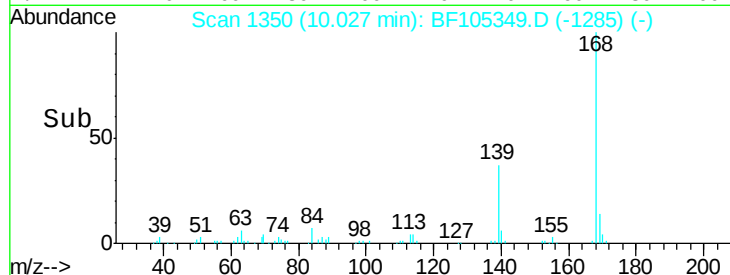
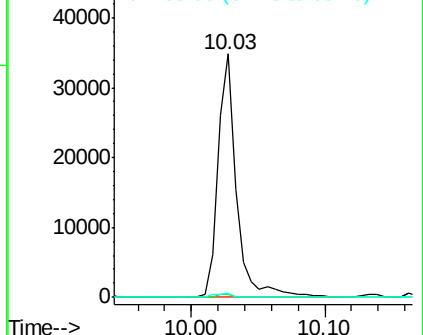
#55
4-Nitrophenol
Concen: 7.71 ng
RT: 10.03 min Scan# 1350
Delta R.T. 0.08 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	1.3	48.4	88.4#
65	1.9	72.6	112.6#

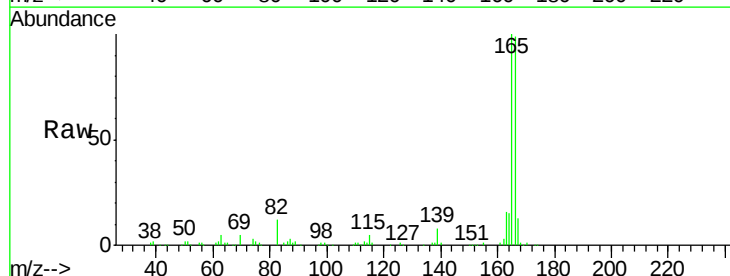


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

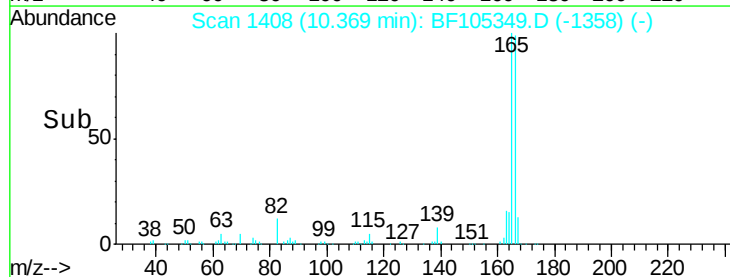
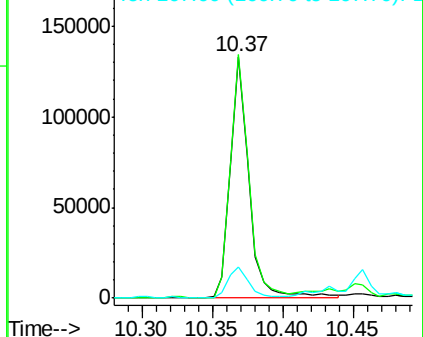


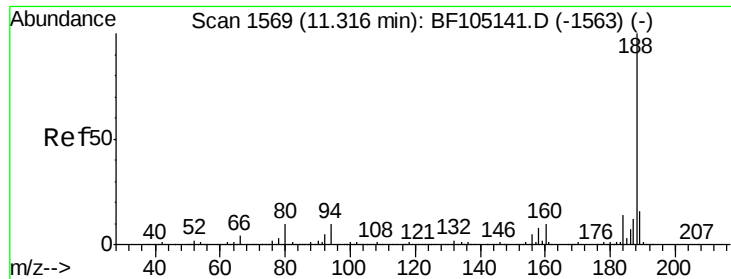
#57
Fluorene
Concen: 6.48 ng
RT: 10.37 min Scan# 1408
Delta R.T. -0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.1	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

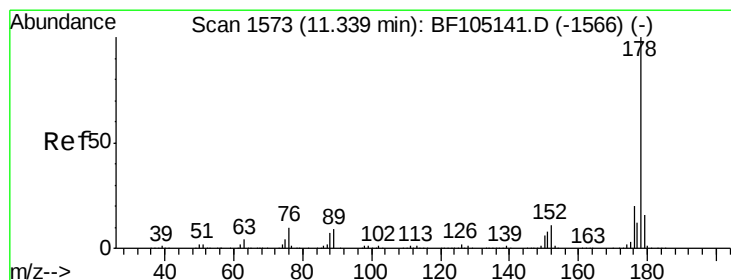
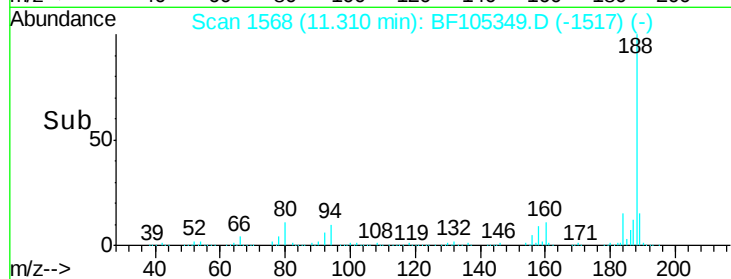
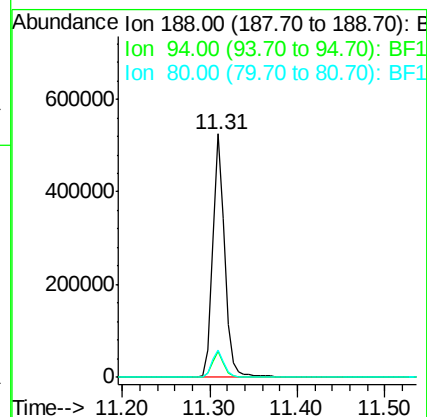
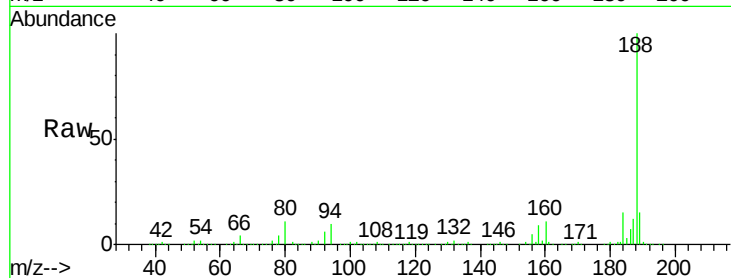




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.31 min Scan# 1568
Delta R.T. 0.00 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

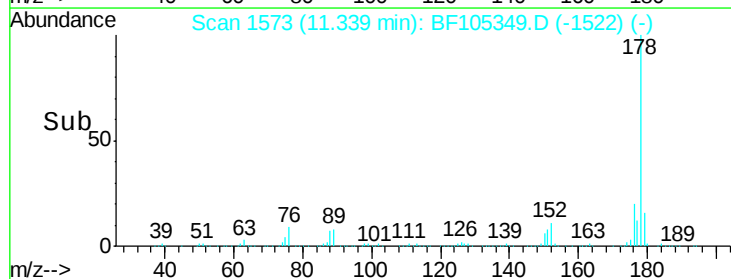
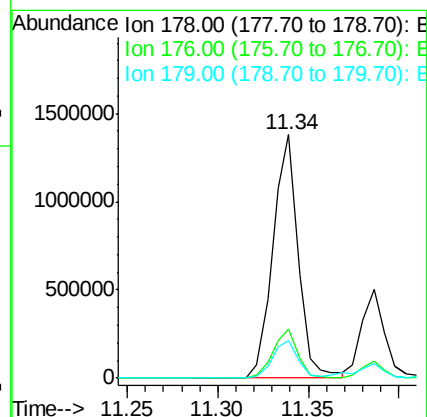
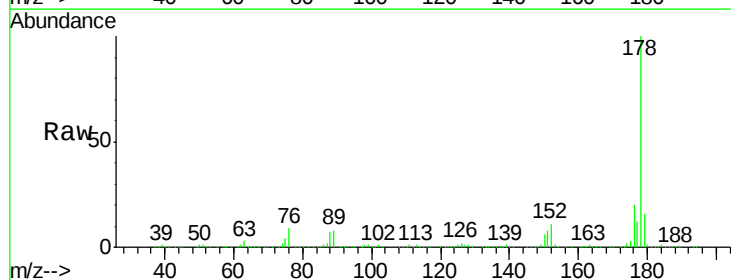
Instrument :
BNA_F
ClientSampleId :

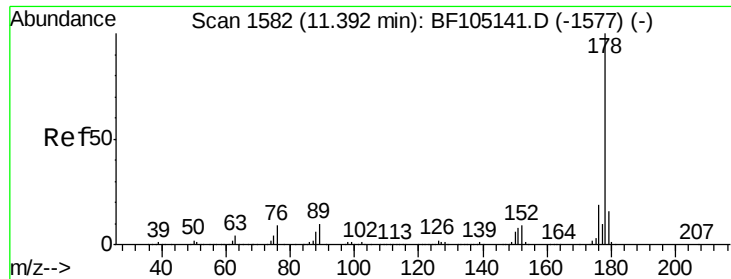
Tot Ion:188 Resp: 503149
Ion Ratio Lower Upper
188 100
94 10.5 8.5 12.7
80 11.4 9.2 13.8



#70
Phenanthrene
Concen: 47.13 ng
RT: 11.34 min Scan# 1573
Delta R.T. 0.00 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Tgt Ion:178 Resp: 1336401
Ion Ratio Lower Upper
178 100
176 20.0 15.8 23.8
179 15.6 13.0 19.6

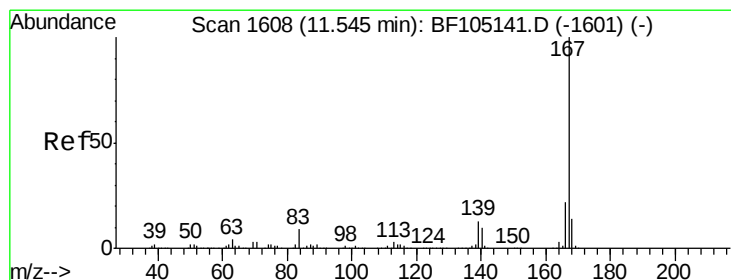
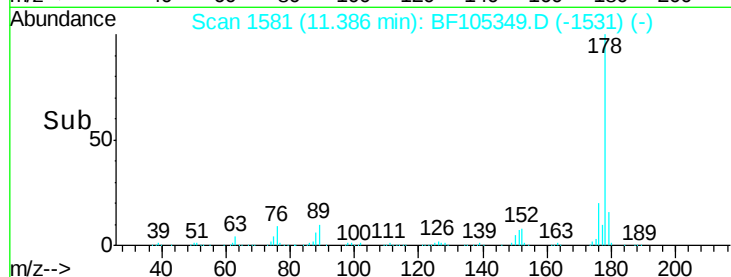
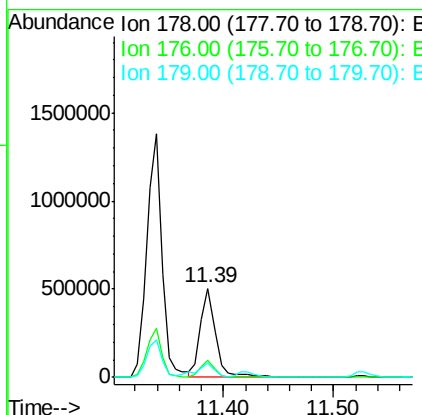
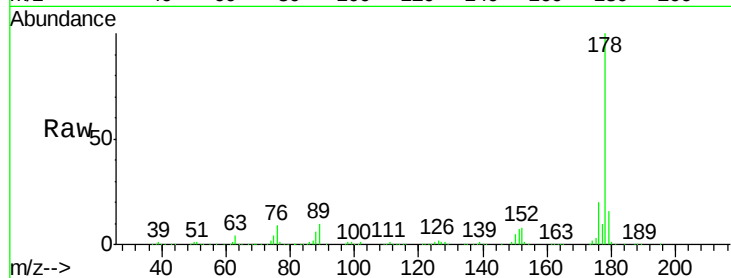




#71
 Anthracene
 Concen: 16.21 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: BF105349.D
 Acq: 12 May 2018 20:24

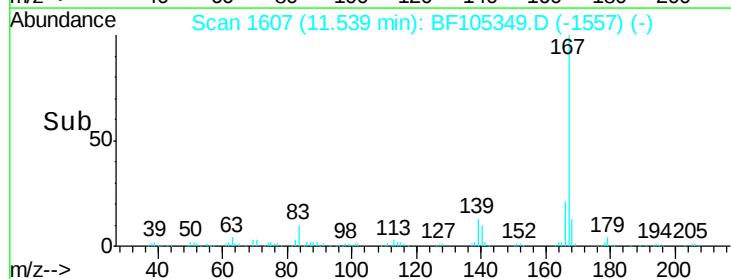
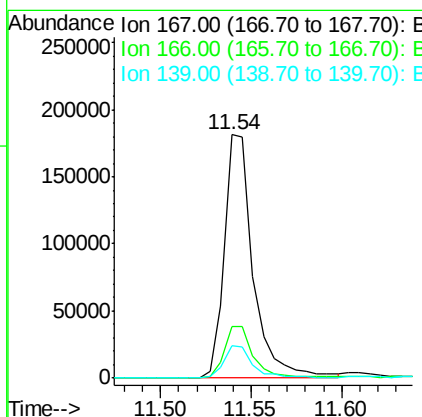
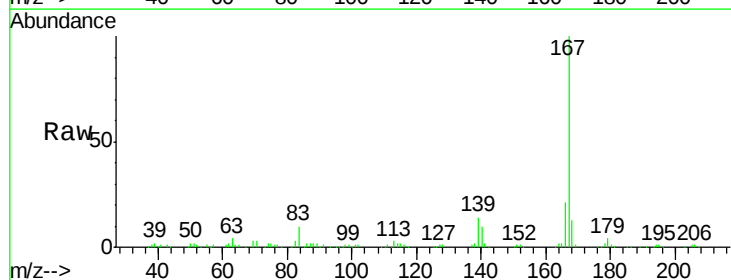
Instrument :
 BNA_F
 ClientSampleId :

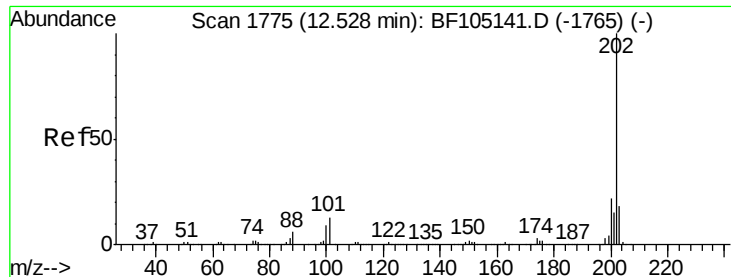
Tot Ion:178 Resp: 475826
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.4 23.2
 179 16.3 12.6 19.0



#72
 Carbazole
 Concen: 7.83 ng
 RT: 11.54 min Scan# 1607
 Delta R.T. -0.01 min
 Lab File: BF105349.D
 Acq: 12 May 2018 20:24

Tgt Ion:167 Resp: 201140
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.6 26.4
 139 13.6 10.9 16.3





#74

Fluoranthene

Concen: 70.43 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.01 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

Instrument :

BNA_F

ClientSampleId :

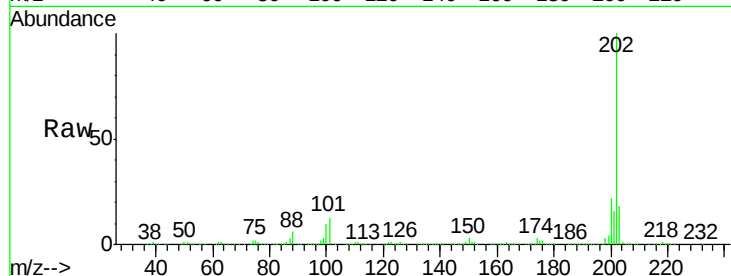
Tot Ion:202 Resp: 1985284

Ion Ratio Lower Upper

202 100

101 12.9 0.0 34.1

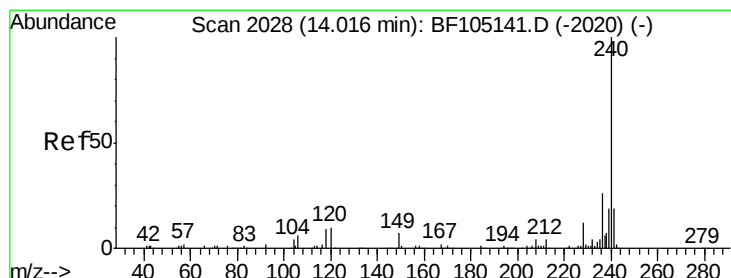
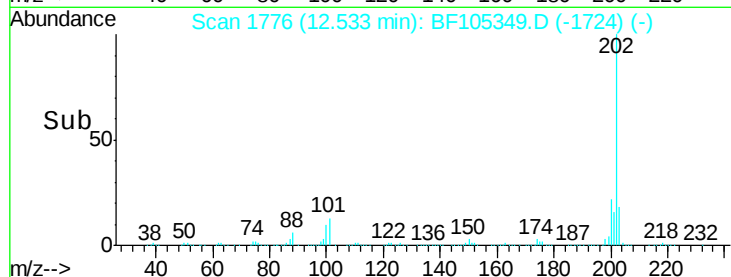
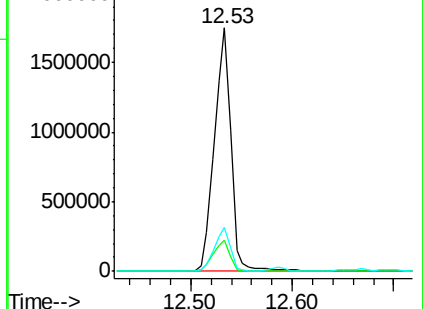
203 18.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

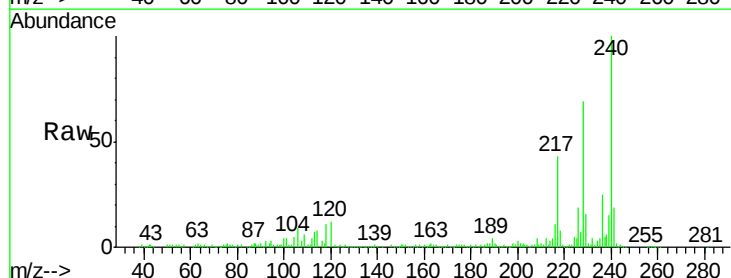
Tgt Ion:240 Resp: 299774

Ion Ratio Lower Upper

240 100

120 12.3 9.5 14.3

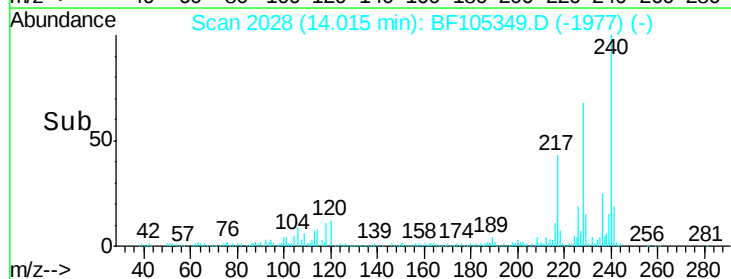
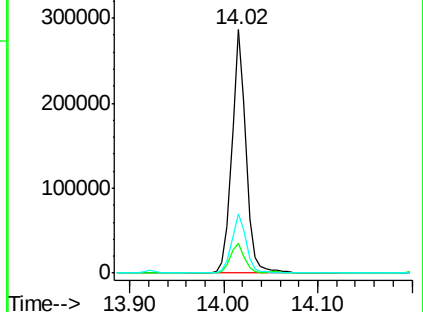
236 24.6 20.7 31.1

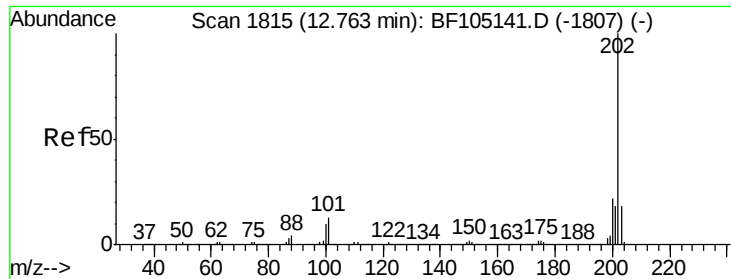


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

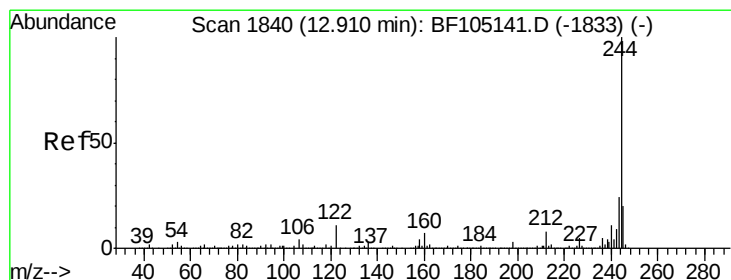
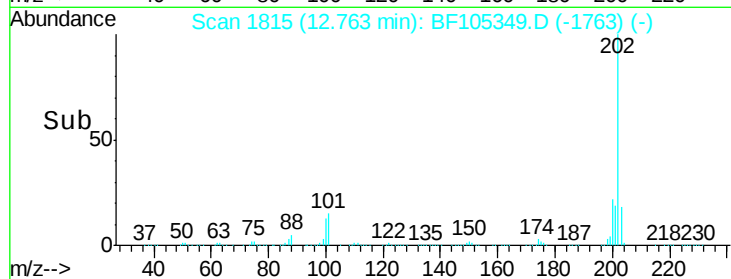
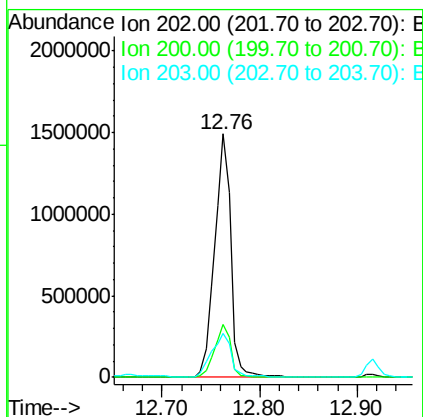
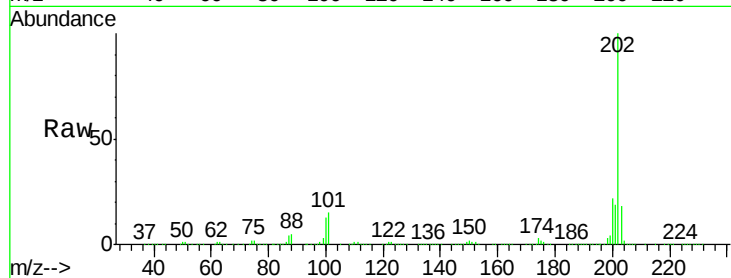




#77
Pvrene
Concen: 74.23 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

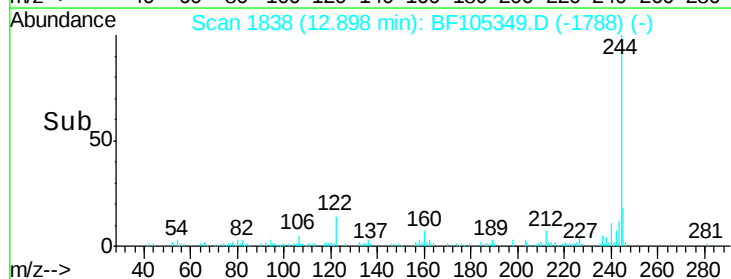
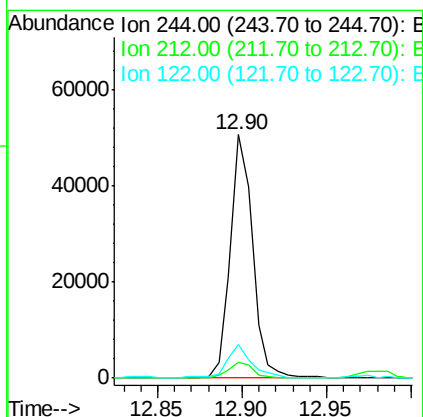
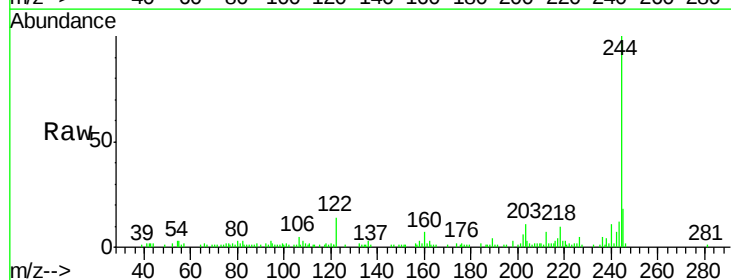
Instrument :
BNA_F
ClientSampleId :

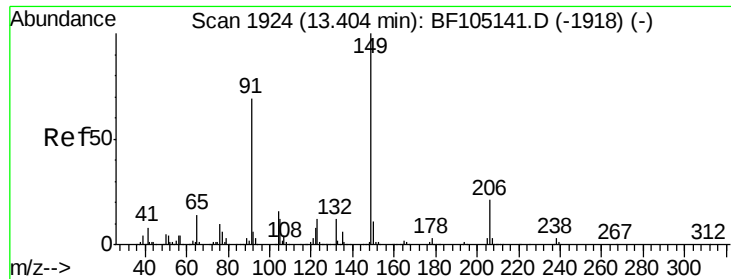
Tot Ion:202 Resp: 1717160
Ion Ratio Lower Upper
202 100
200 21.6 17.4 26.2
203 18.0 14.3 21.5



#78
Terphenyl-d14
Concen: 3.35 ng
RT: 12.90 min Scan# 1838
Delta R.T. -0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Tgt Ion:244 Resp: 46647
Ion Ratio Lower Upper
244 100
212 6.5 5.4 8.0
122 13.8 11.0 16.4

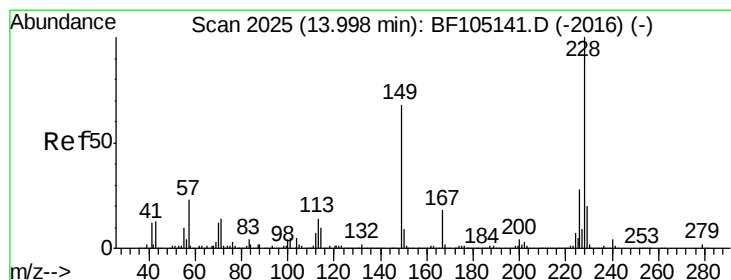
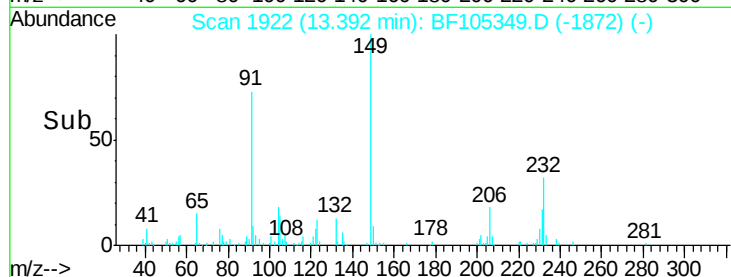
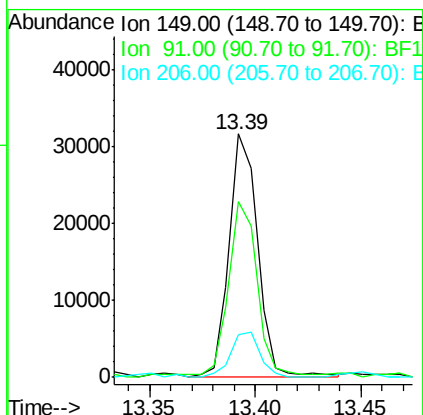
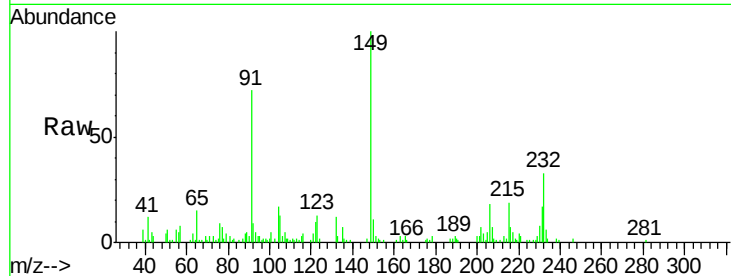




#79
Butylbenzylphthalate
Concen: 2.92 ng
RT: 13.39 min Scan# 1922
Delta R.T. -0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

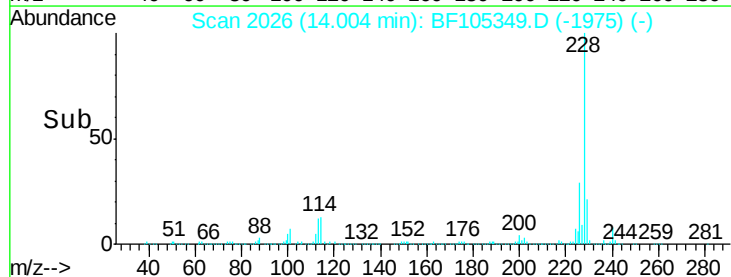
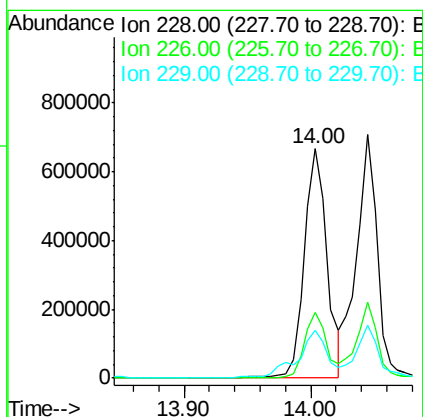
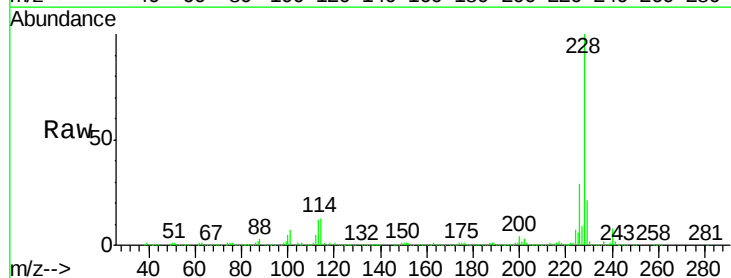
Instrument :
BNA_F
ClientSampleId :

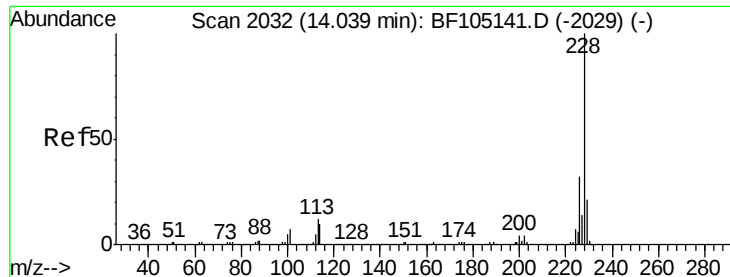
Tot Ion	Ratio	Lower	Upper
149	100		
91	72.4	56.8	85.2
206	17.7	14.1	21.1



#80
Benzo(a)anthracene
Concen: 47.19 ng
RT: 14.00 min Scan# 2026
Delta R.T. 0.00 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	33.8
229	21.0	15.8	23.6





#82

Chrysene

Concen: 46.70 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.00 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

Instrument :

BNA_F

ClientSampled :

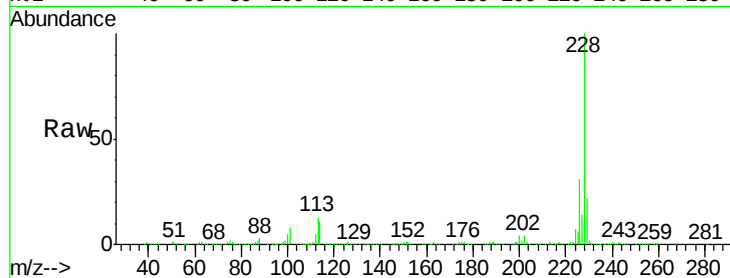
Tot Ion:228 Resp: 805468

Ion Ratio Lower Upper

228 100

226 31.3 25.0 37.6

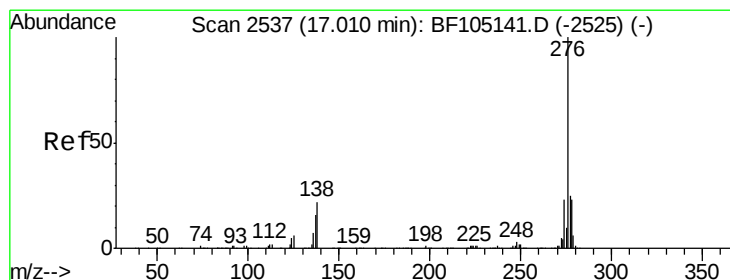
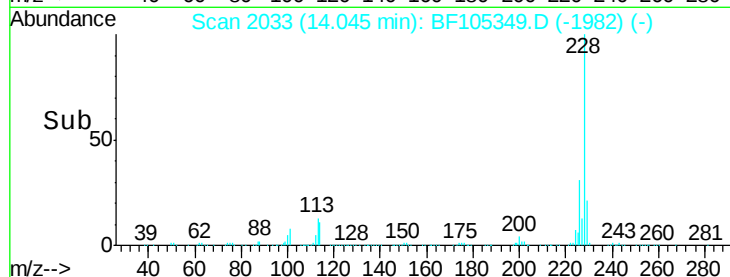
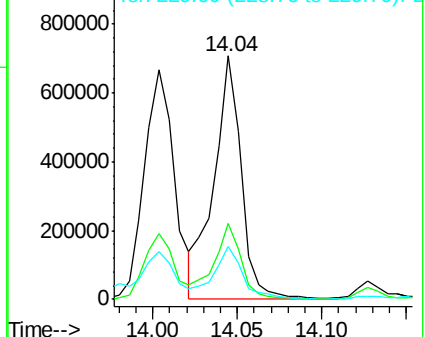
229 21.7 16.2 24.4



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: 3.29 ng

RT: 16.87 min Scan# 2513

Delta R.T. -0.15 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

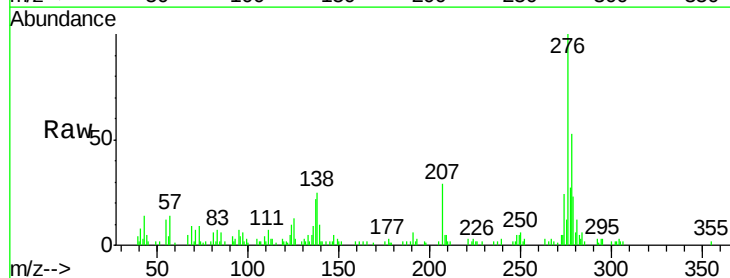
Tgt Ion:276 Resp: 51611

Ion Ratio Lower Upper

276 100

138 29.3 25.0 37.6

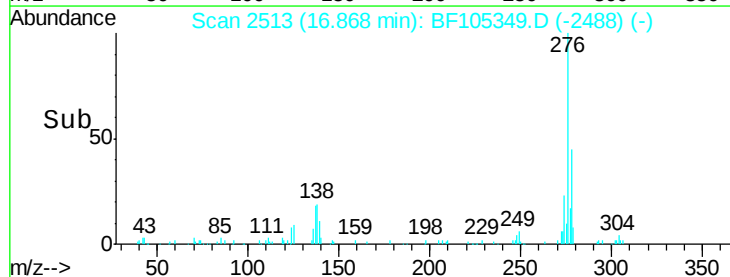
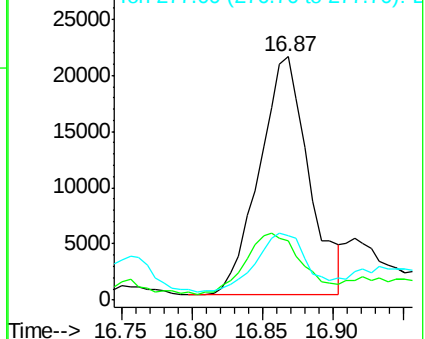
277 25.9 20.1 30.1

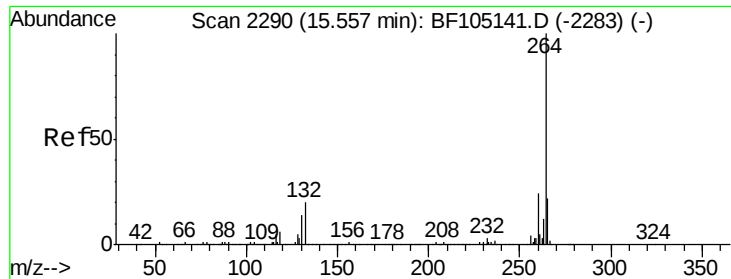


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

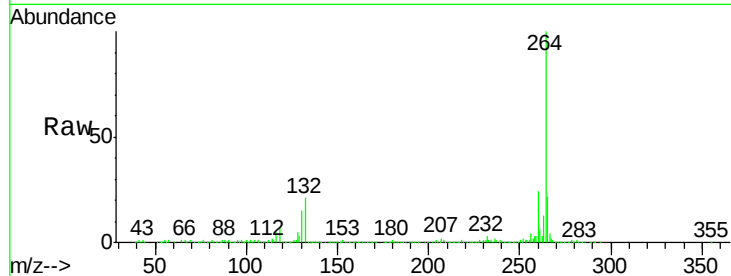




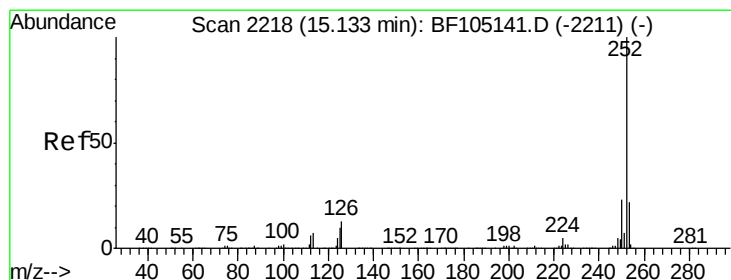
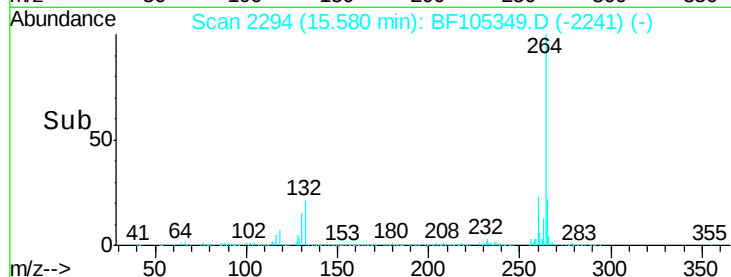
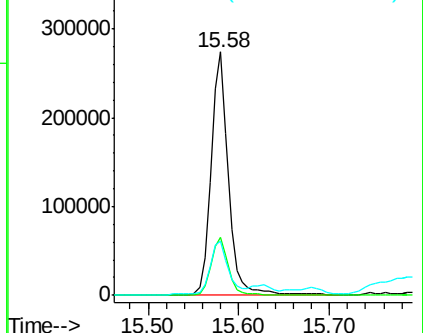
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.58 min Scan# 2294
Delta R.T. 0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 363666
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 22.2 17.5 26.3

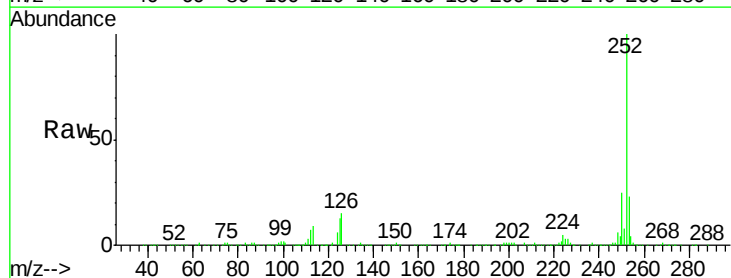


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

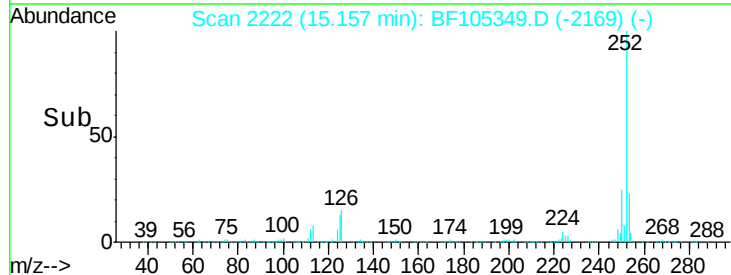
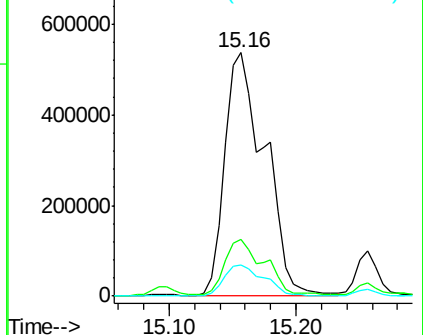


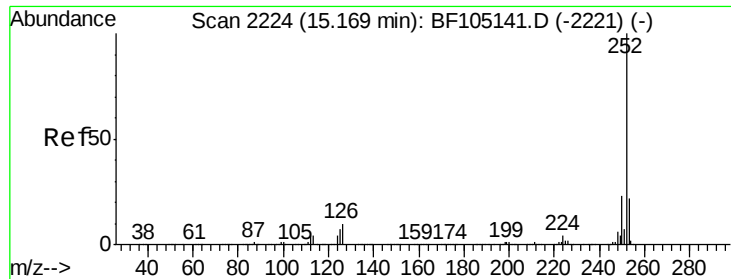
#87
Benzo(b)fluoranthene
Concen: 54.16 ng
RT: 15.16 min Scan# 2222
Delta R.T. 0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Tgt Ion:252 Resp: 1174063
Ion Ratio Lower Upper
252 100
253 23.1 17.0 25.6
125 13.0 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

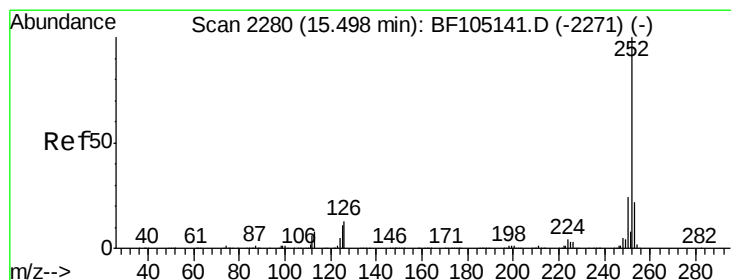
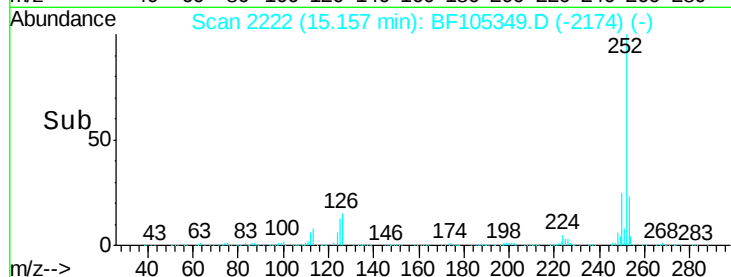
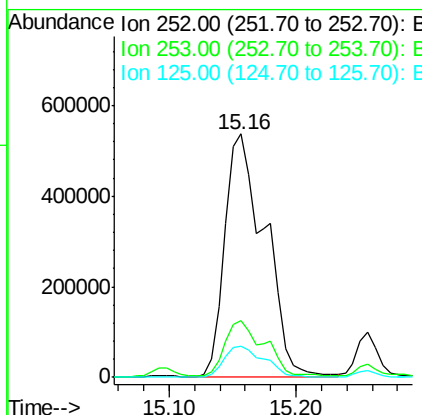
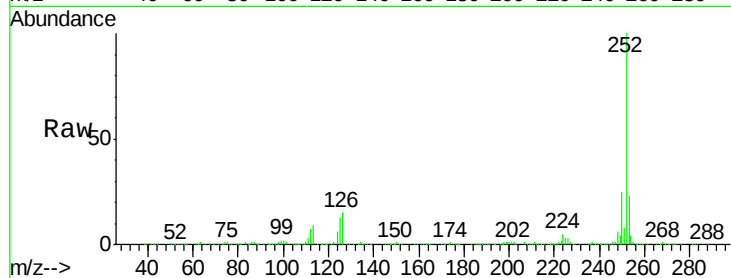




#88
Benzo(k)fluoranthene
Concen: 56.01 ng
RT: 15.16 min Scan# 2222
Delta R.T. -0.02 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

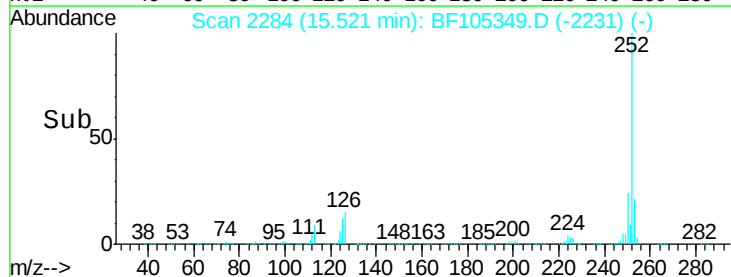
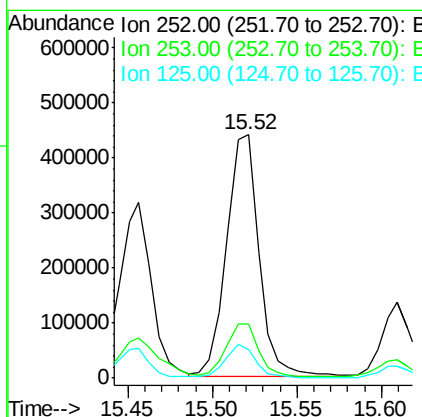
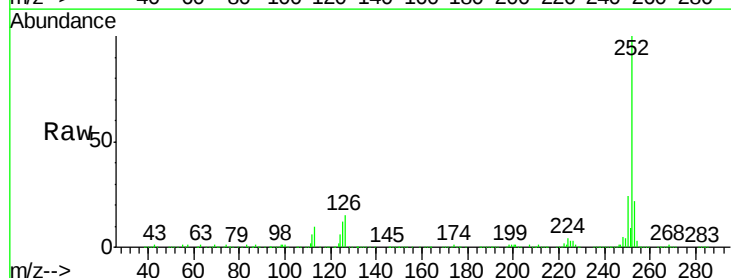
Instrument :
BNA_F
ClientSampleId :

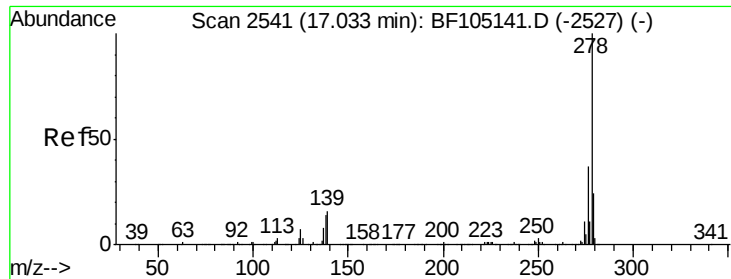
Tot Ion:252 Resp: 1174063
Ion Ratio Lower Upper
252 100
253 23.1 17.9 26.9
125 13.0 10.2 15.2



#89
Benzo(a)pyrene
Concen: 29.21 ng
RT: 15.52 min Scan# 2284
Delta R.T. 0.01 min
Lab File: BF105349.D
Acq: 12 May 2018 20:24

Tgt Ion:252 Resp: 589558
Ion Ratio Lower Upper
252 100
253 22.2 17.1 25.7
125 11.7 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 4.33 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.01 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

Instrument :

BNA_F

ClientSampled :

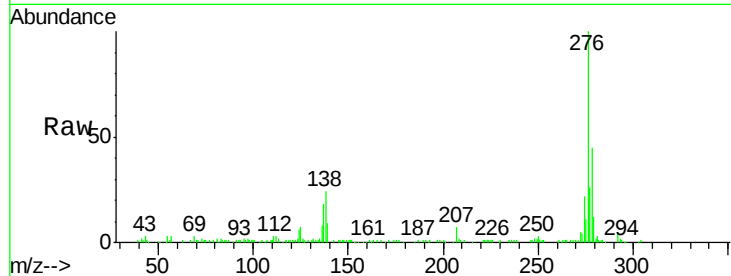
Tot Ion:278 Resp: 81867

Ion Ratio Lower Upper

278 100

139 19.4 15.9 23.9

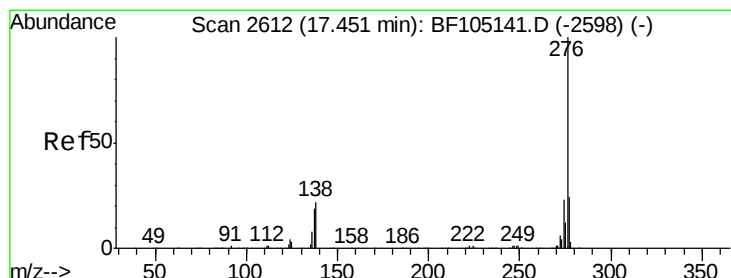
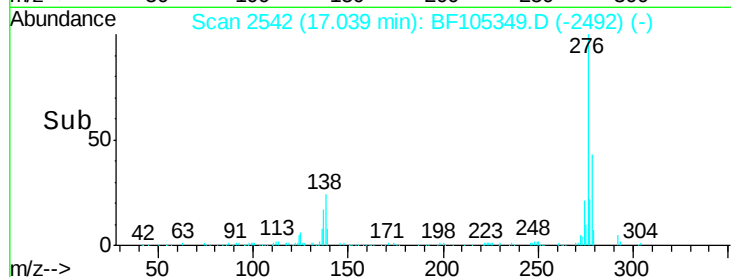
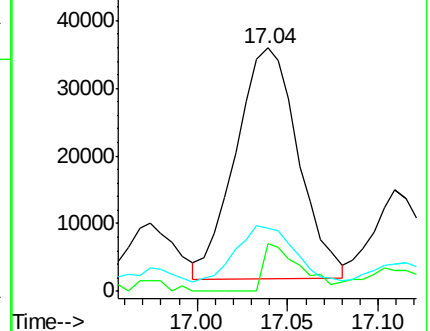
279 26.1 19.0 28.4



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: 13.02 ng

RT: 17.46 min Scan# 2614

Delta R.T. 0.00 min

Lab File: BF105349.D

Acq: 12 May 2018 20:24

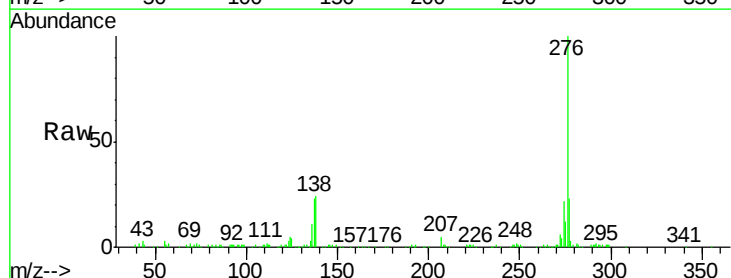
Tgt Ion:276 Resp: 236904

Ion Ratio Lower Upper

276 100

277 22.7 17.9 26.9

138 24.3 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

