

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082349.D
 Acq On : 17 Oct 2015 3:28
 Operator : UM/IZ
 Sample : G4016-12DL 20X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-13DL

Quant Time: Oct 17 04:34:24 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 17 04:30:36 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	52357	20.00	ng	0.01
21) Naphthalene-d8	8.24	136	232123	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	128566	20.00	ng	0.00
63) Phenanthrene-d10	11.48	188	246802	20.00	ng	0.00
75) Chrysene-d12	14.14	240	219493	20.00	ng	0.00
86) Perylene-d12	15.66	264	208096	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.58	112	4078	1.57	ng	0.01
7) Phenol-d6	6.61	99	6060	1.80	ng	0.01
23) Nitrobenzene-d5	7.52	82	3401	0.98	ng	0.00
41) 2,4,6-Tribromophenol	10.78	330	2839	2.35	ng	0.00
44) 2-Fluorobiphenyl	9.30	172	14632	1.89	ng	0.00
78) Terphenyl-d14	13.05	244	19212	2.32	ng	0.00

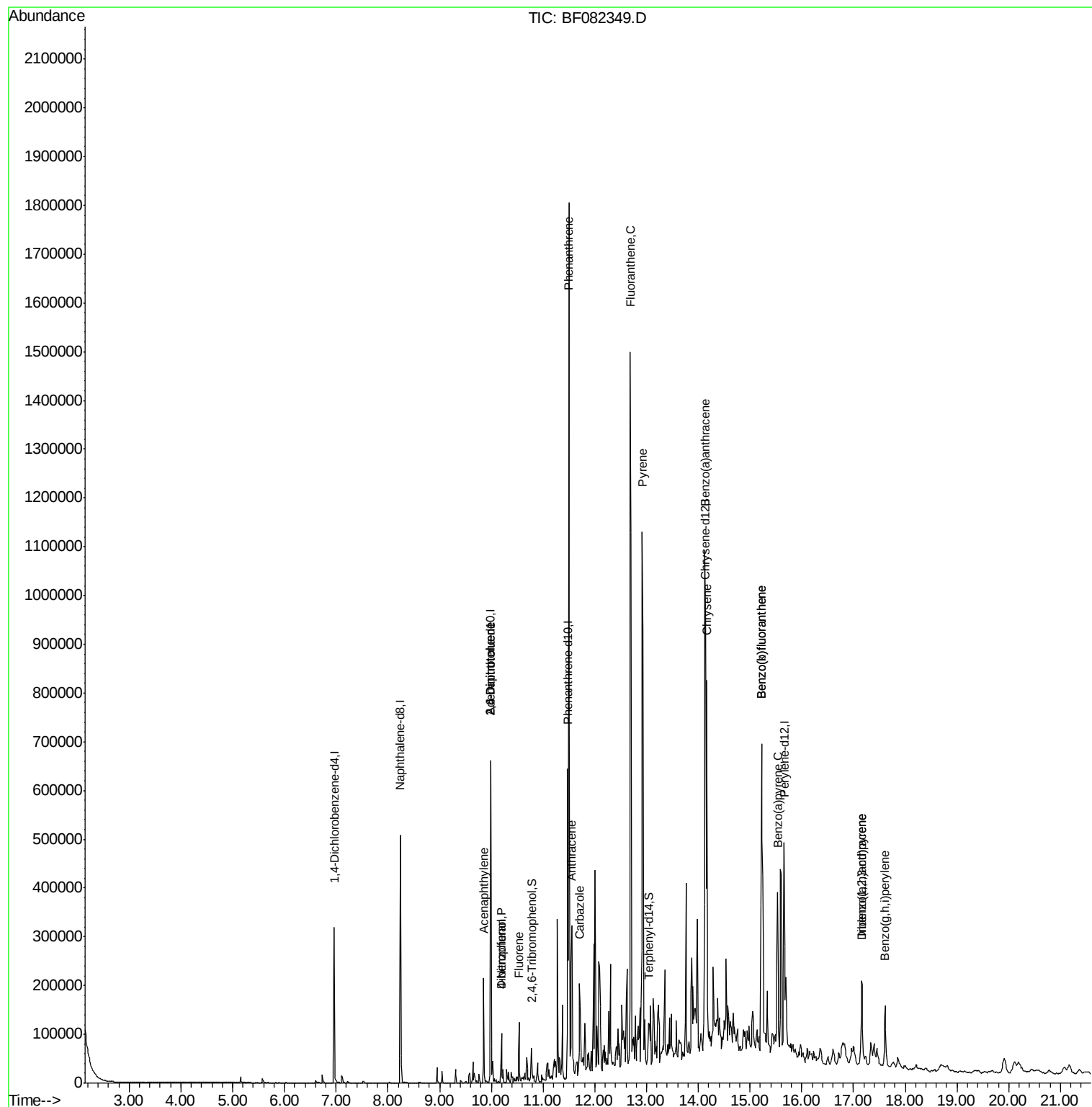
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	9.85	152	93231	7.75	ng	98
50) 2,6-Dinitrotoluene	9.99	165	17059	8.93	ng	# 30
54) Dibenzofuran	10.19	168	45656	4.61	ng	93
55) 4-Nitrophenol	10.19	139	15786	14.89	ng	# 11
56) 2,4-Dinitrotoluene	9.99	165	17511	7.33	ng	# 21
57) Fluorene	10.54	166	46654	5.73	ng	99
70) Phenanthrene	11.50	178	808504	66.83	ng	99
71) Anthracene	11.56	178	191384	15.35	ng	98
72) Carbazole	11.70	167	119415	10.50	ng	99
74) Fluoranthene	12.69	202	831124	63.97	ng	96
77) Pyrene	12.92	202	645282	49.54	ng	99
80) Benzo(a)anthracene	14.13	228	420228	36.80	ng	97
82) Chrysene	14.16	228	272329	22.63	ng	98
85) Indeno(1,2,3-cd)pyrene	17.16	276	128828	13.47	ng	97
87) Benzo(b)fluoranthene	15.22	252	489512	38.66	ng	99
88) Benzo(k)fluoranthene	15.22	252	489512	46.00	ng	# 97
89) Benzo(a)pyrene	15.53	252	157853	14.51	ng	98
90) Dibenzo(a,h)anthracene	17.17	278	45009	5.05	ng	92
91) Benzo(a,h,i)perylene	17.61	276	104797	12.10	ng	99

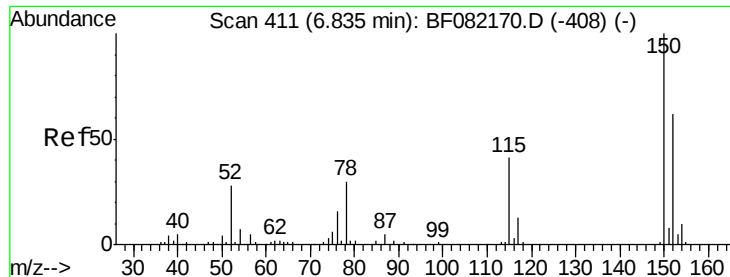
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.96 min Scan# 422

Delta R.T. 0.01 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

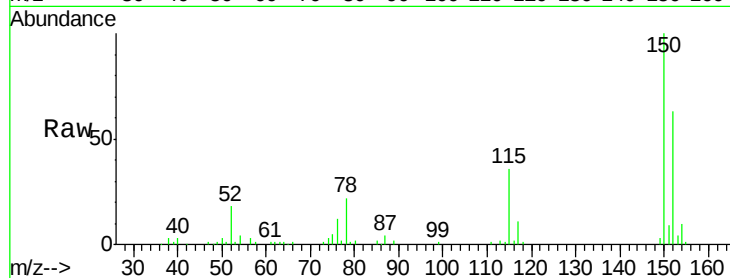
Tot Ion:152 Resp: 52357

Ion Ratio Lower Upper

152 100

150 159.4 129.0 193.4

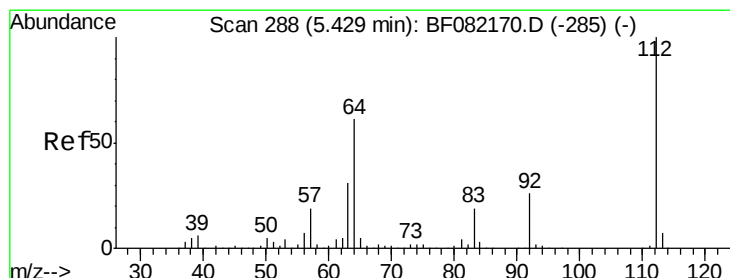
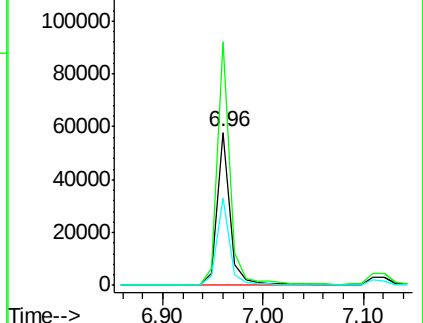
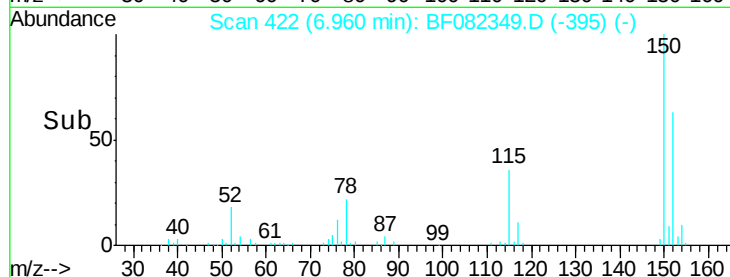
115 57.0 52.1 78.1



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: 1.57 ng

RT: 5.58 min Scan# 301

Delta R.T. 0.01 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

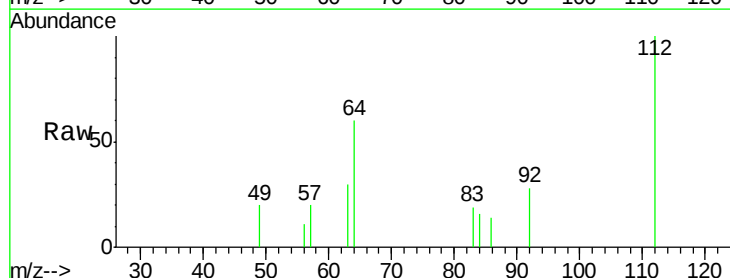
Tgt Ion:112 Resp: 4078

Ion Ratio Lower Upper

112 100

64 60.2 48.6 73.0

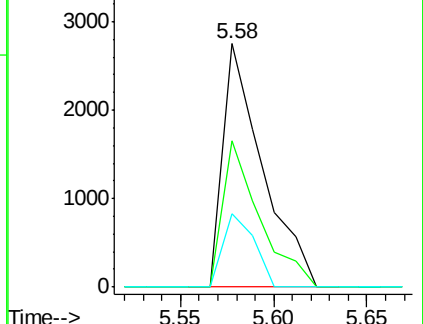
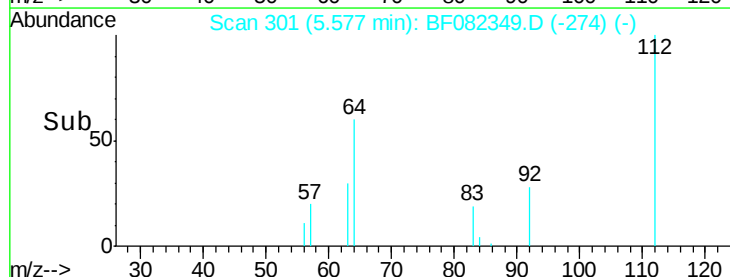
63 30.2 25.1 37.7



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.80 ng

RT: 6.61 min Scan# 391

Delta R.T. 0.01 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

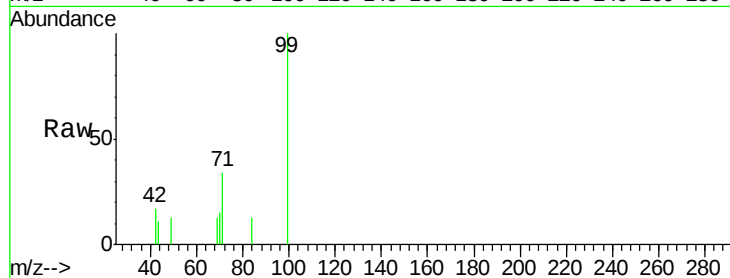
Tot Ion: 99 Resp: 6060

Ion Ratio Lower Upper

99 100

42 16.6 13.2 19.8

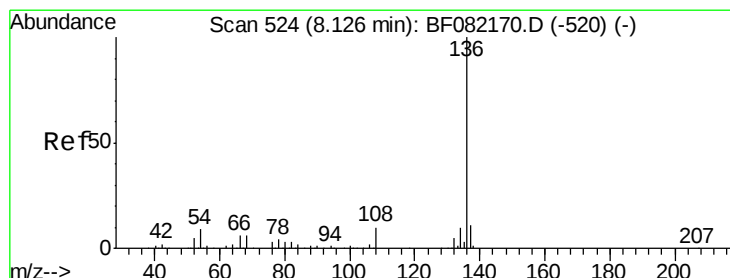
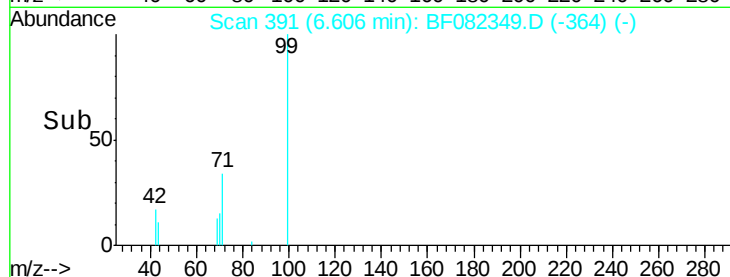
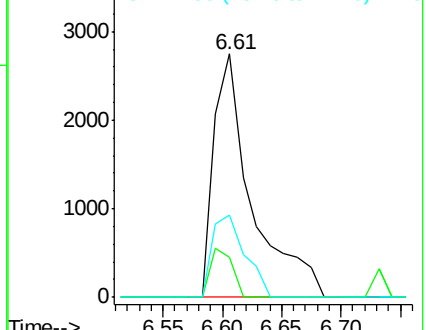
71 33.6 25.6 38.4



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.24 min Scan# 534

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Tgt Ion: 136 Resp: 232123

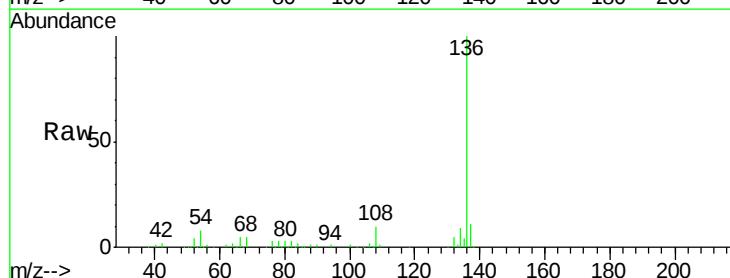
Ion Ratio Lower Upper

136 100

137 10.6 9.0 13.6

54 7.7 7.5 11.3

68 5.0 4.6 7.0

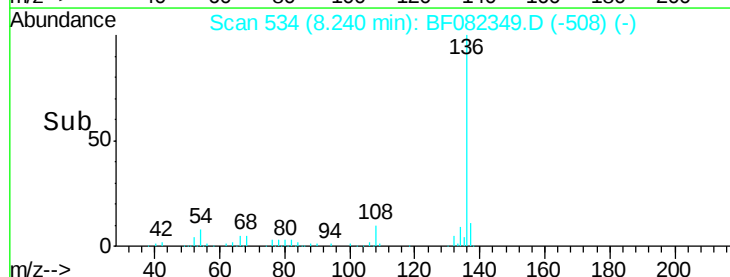
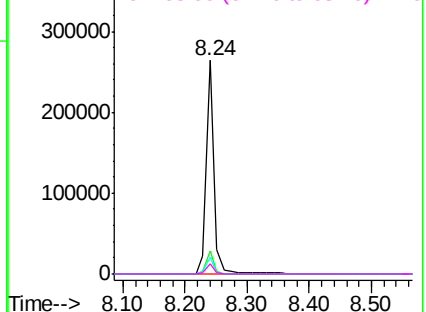


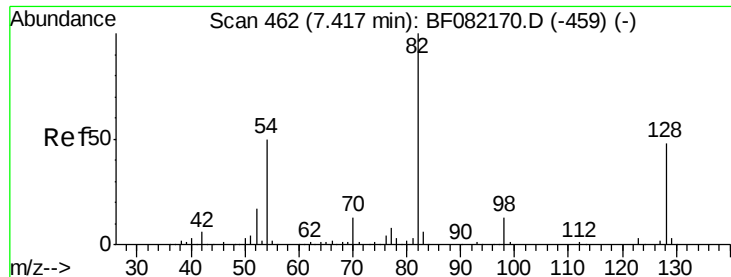
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

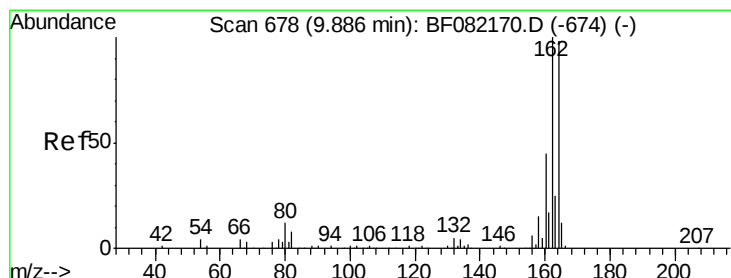
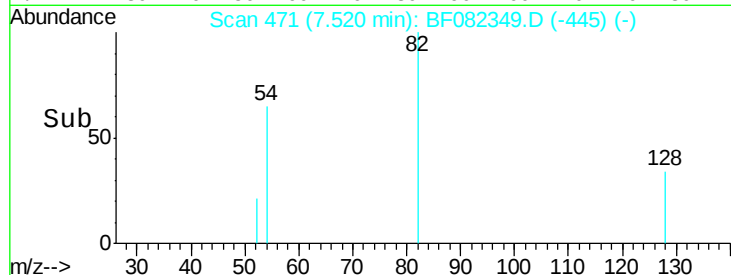
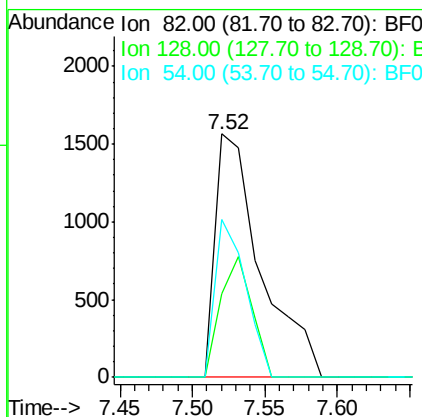
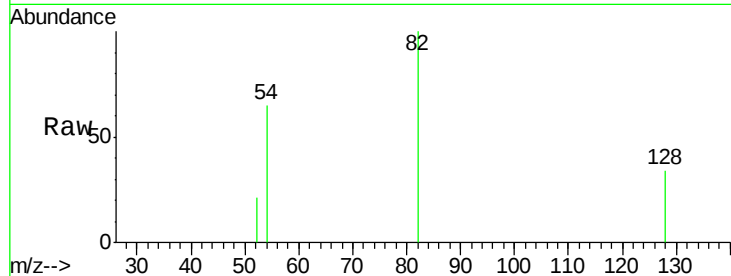




#23
 Nitrobenzene-d5
 Concen: 0.98 ng
 RT: 7.52 min Scan# 471
 Delta R.T. 0.00 min
 Lab File: BF082349.D
 Acq: 17 Oct 2015 3:28

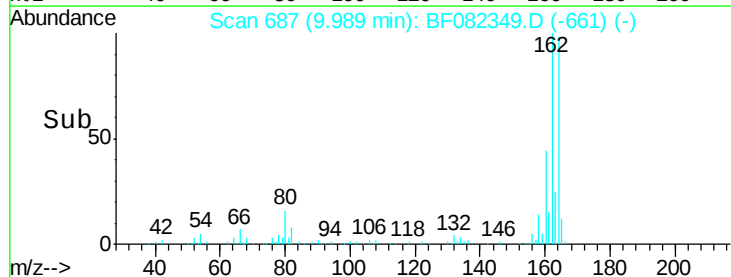
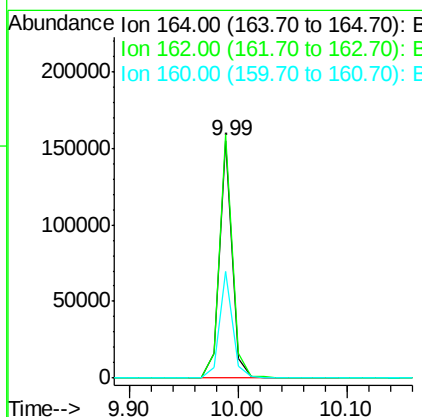
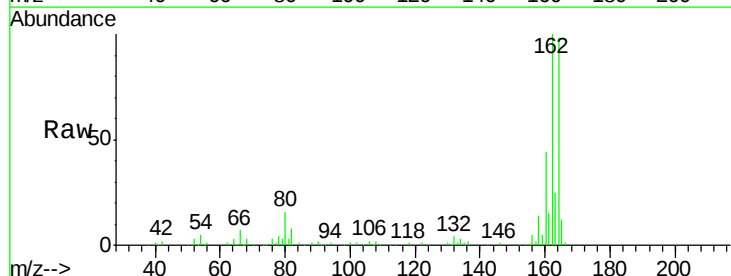
Instrument :
 BNA_F
 ClientSampleId :
 CS-13DL

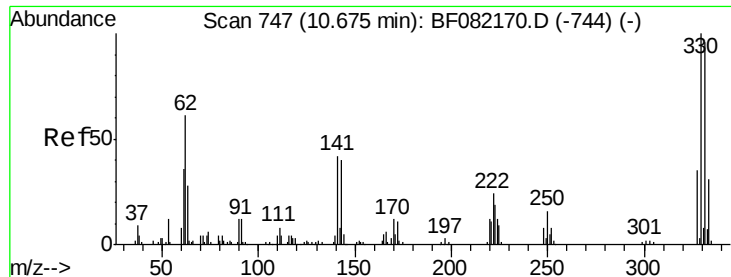
Tot Ion: 82 Resp: 3401
 Ion Ratio Lower Upper
 82 100
 128 34.4 38.7 58.1#
 54 64.9 40.1 60.1#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.99 min Scan# 687
 Delta R.T. 0.00 min
 Lab File: BF082349.D
 Acq: 17 Oct 2015 3:28

Tgt Ion: 164 Resp: 128566
 Ion Ratio Lower Upper
 164 100
 162 102.5 81.6 122.4
 160 45.0 36.4 54.6

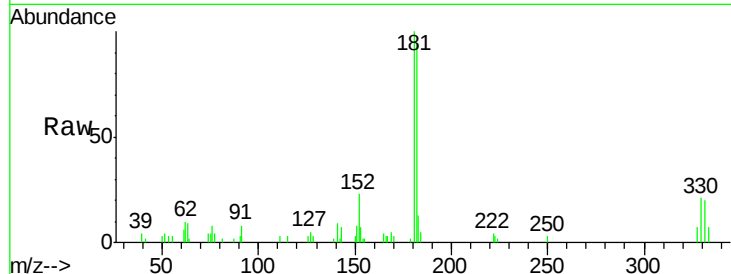




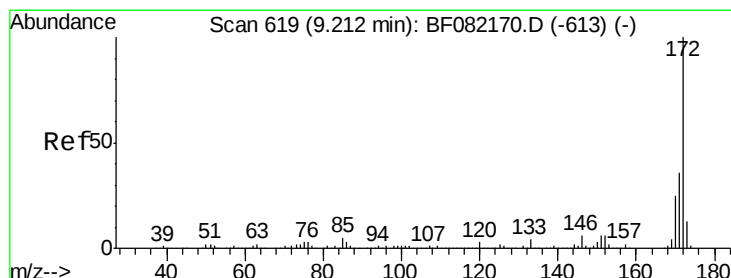
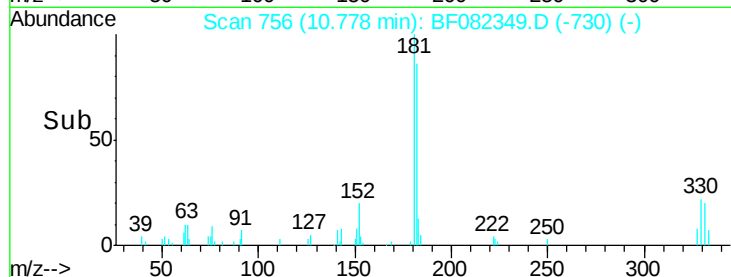
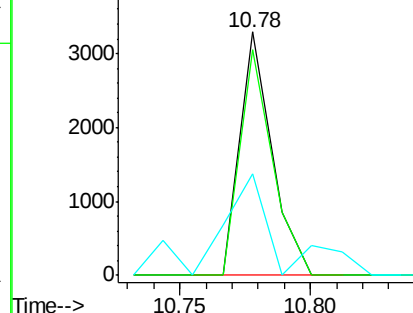
#41
 2,4,6-Tribromophenol
 Concen: 2.35 ng
 RT: 10.78 min Scan# 756
 Delta R.T. 0.00 min
 Lab File: BF082349.D
 Acq: 17 Oct 2015 3:28

Instrument :
 BNA_F
 ClientSampleId :
 CS-13DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.2	77.1	115.7
141	77.8	29.8	44.8#

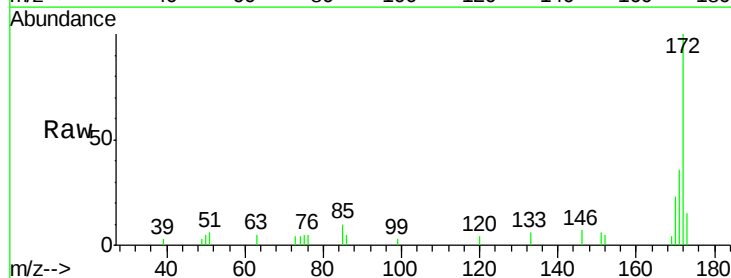


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

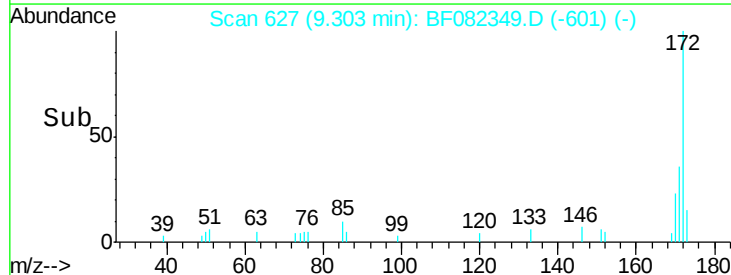
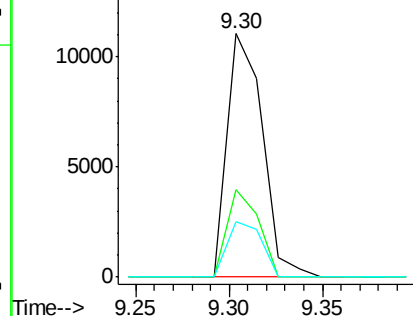


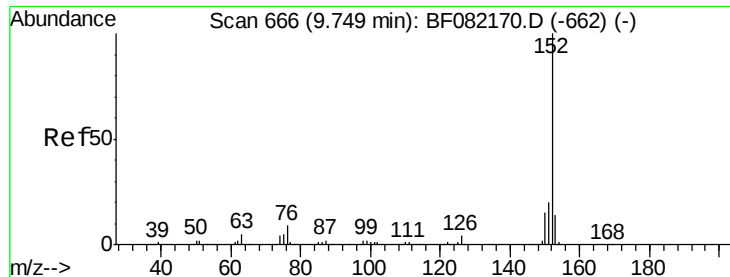
#44
 2-Fluorobiphenyl
 Concen: 1.89 ng
 RT: 9.30 min Scan# 627
 Delta R.T. 0.00 min
 Lab File: BF082349.D
 Acq: 17 Oct 2015 3:28

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	42.8
170	22.7	19.7	29.5



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





#48

Acenaphthylene

Concen: 7.75 ng

RT: 9.85 min Scan# 675

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampled :

CS-13DL

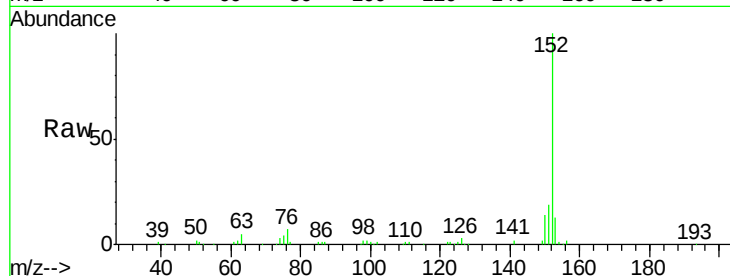
Tot Ion:152 Resp: 93231

Ion Ratio Lower Upper

152 100

151 19.3 16.4 24.6

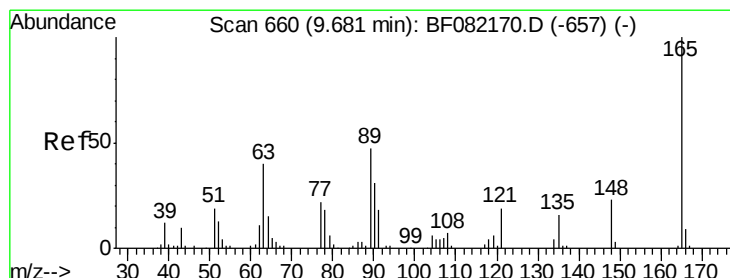
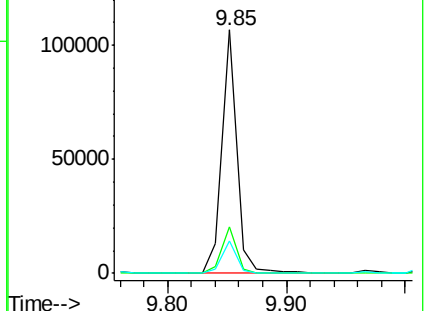
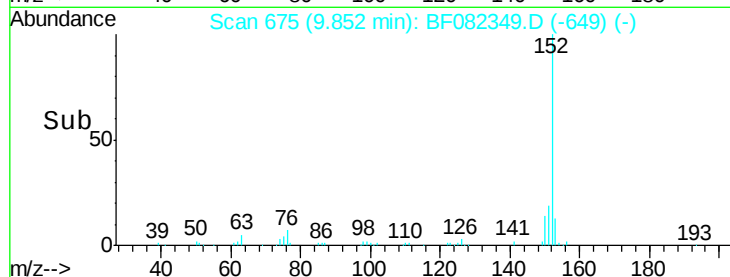
153 13.1 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.93 ng

RT: 9.99 min Scan# 687

Delta R.T. 0.22 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

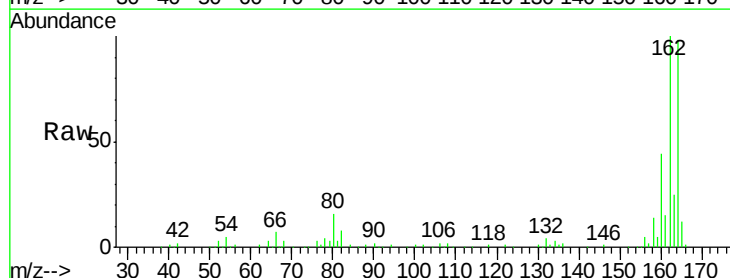
Tgt Ion:165 Resp: 17059

Ion Ratio Lower Upper

165 100

63 0.0 36.7 55.1#

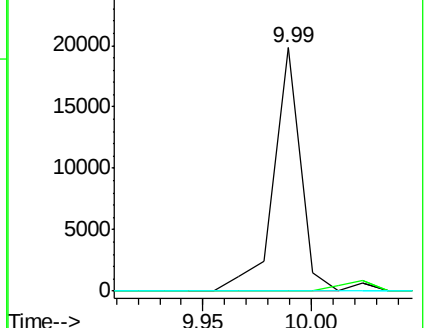
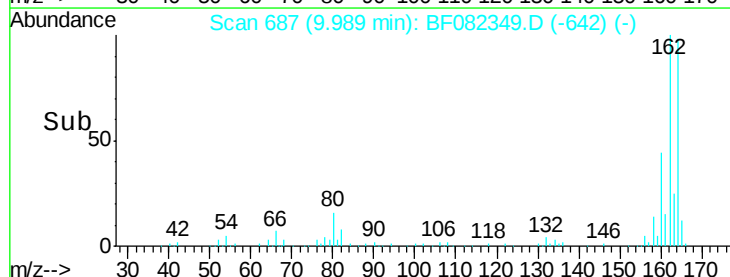
89 0.0 37.8 56.6#

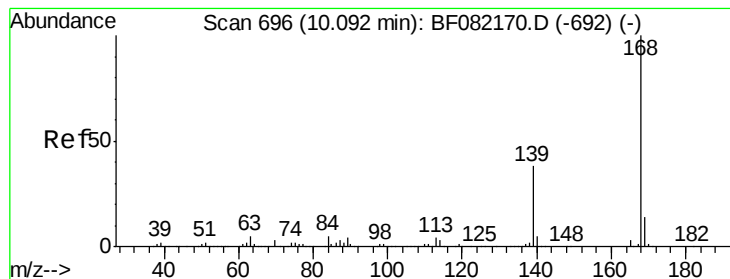


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#54

Dibenzofuran

Concen: 4.61 ng

RT: 10.19 min Scan# 705

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

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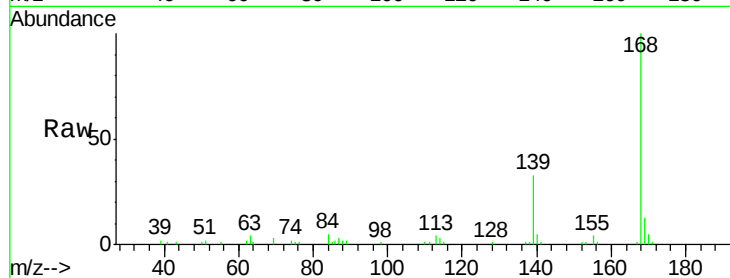
Tot Ion:168 Resp: 45656

Ion Ratio Lower Upper

168 100

139 33.1 31.0 46.6

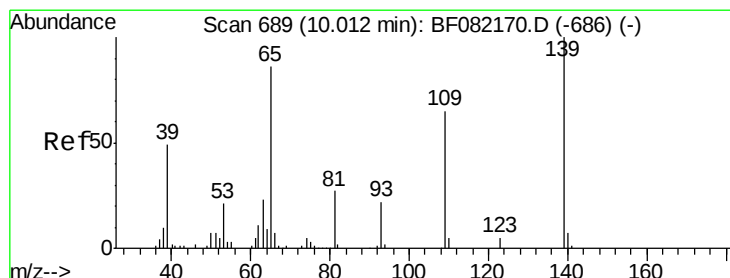
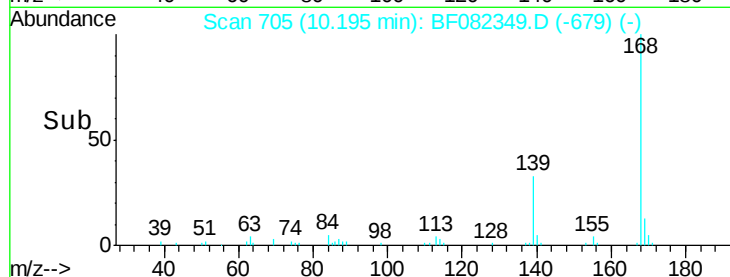
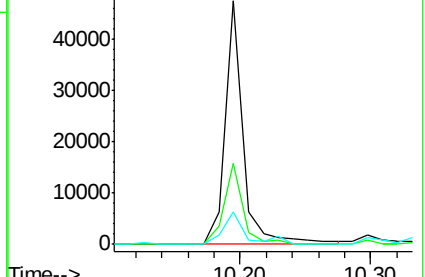
169 13.4 10.9 16.3



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: 14.89 ng

RT: 10.19 min Scan# 705

Delta R.T. 0.08 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

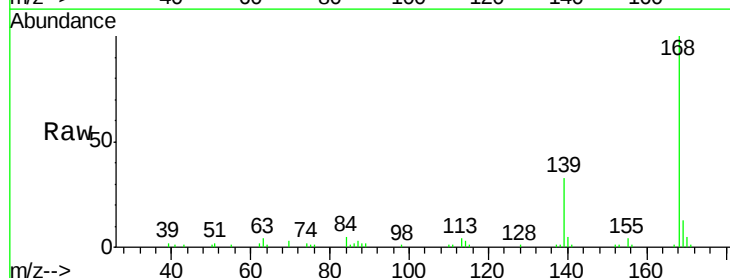
Tgt Ion:139 Resp: 15786

Ion Ratio Lower Upper

139 100

109 0.0 44.8 84.8#

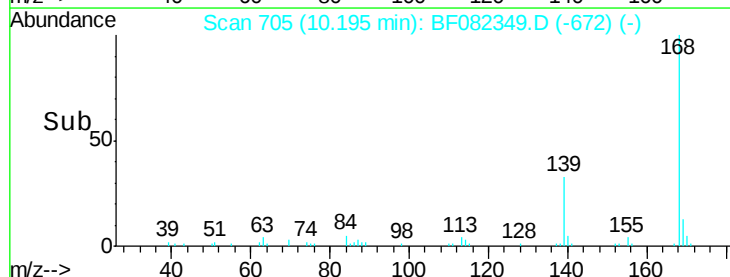
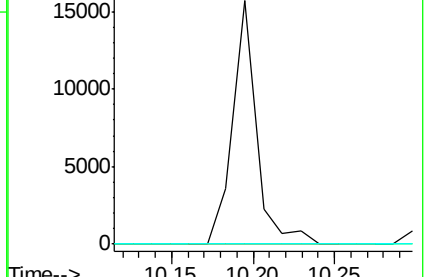
65 0.0 67.7 107.7#

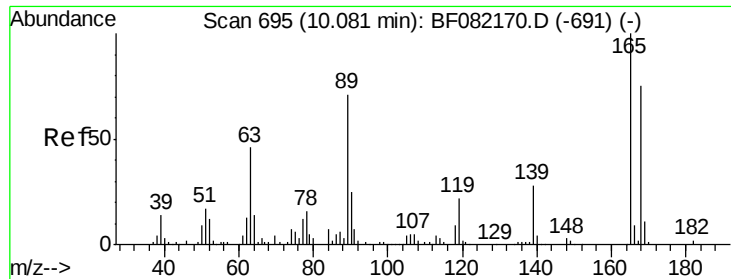


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 7.33 ng

RT: 9.99 min Scan# 687

Delta R.T. -0.19 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

Tot Ion:165 Resp: 17511

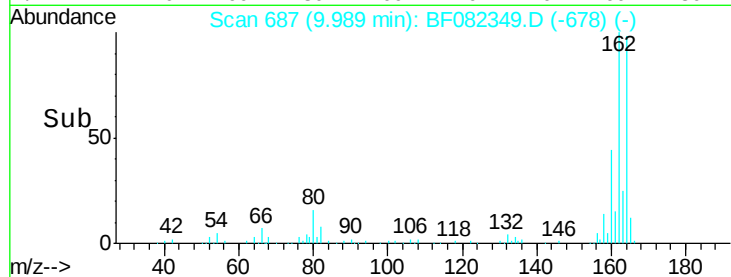
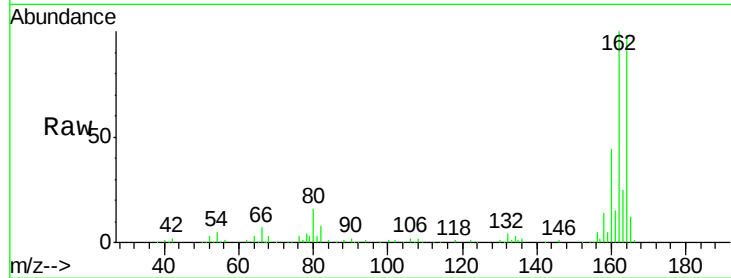
Ion Ratio Lower Upper

165 100

63 0.0 38.6 58.0#

89 0.0 57.0 85.6#

182 0.0 1.8 2.6#

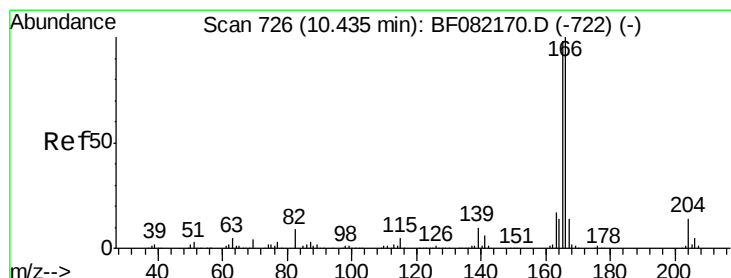
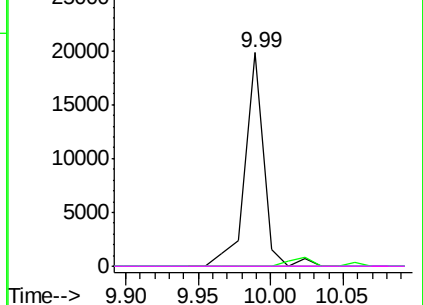


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 5.73 ng

RT: 10.54 min Scan# 735

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

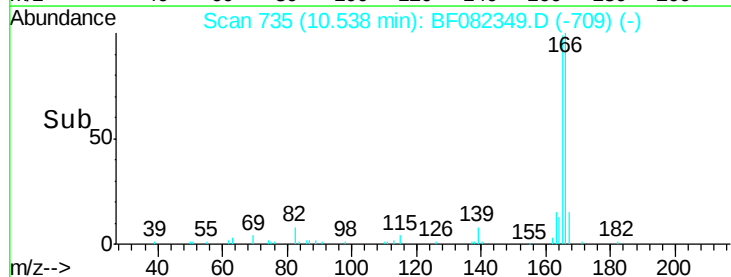
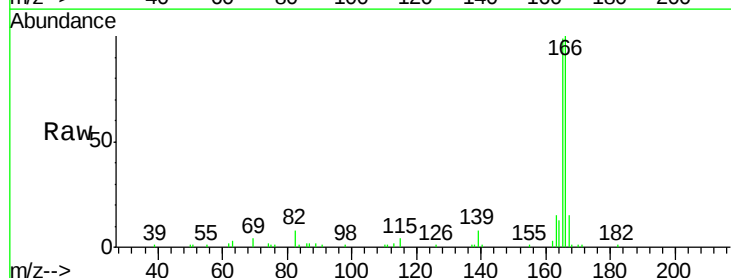
Tgt Ion:166 Resp: 46654

Ion Ratio Lower Upper

166 100

165 98.8 78.3 117.5

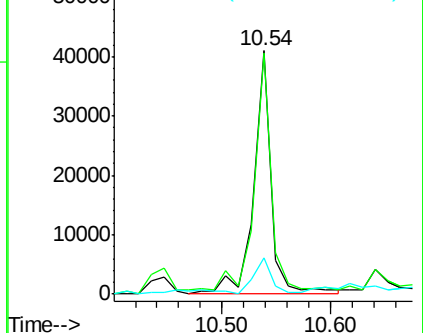
167 14.7 10.8 16.2

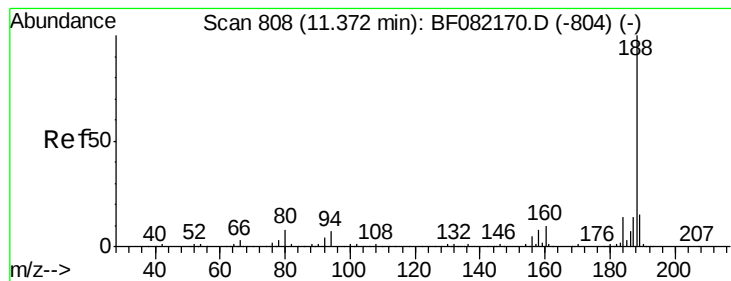


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.48 min Scan# 817

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

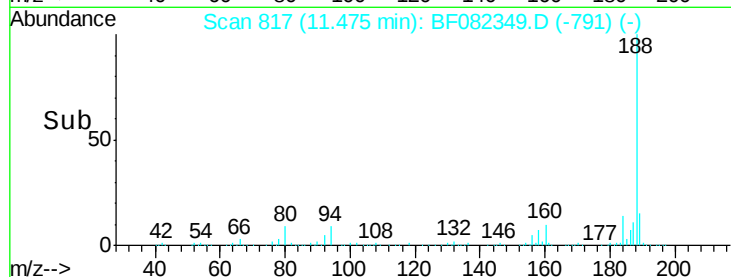
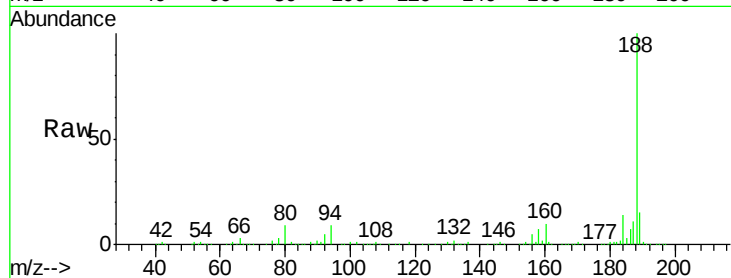
Tot Ion:188 Resp: 246802

Ion Ratio Lower Upper

188 100

94 8.8 5.8 8.6#

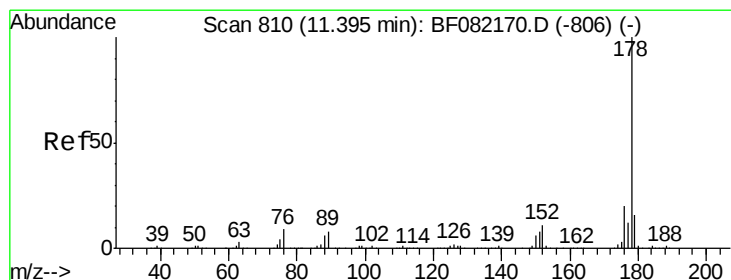
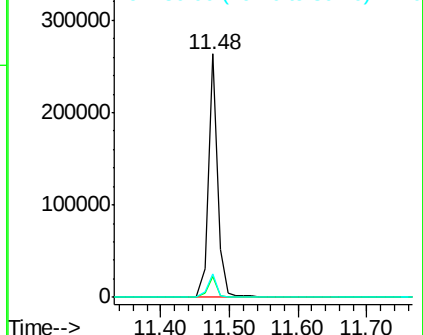
80 9.4 6.4 9.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 66.83 ng

RT: 11.50 min Scan# 819

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

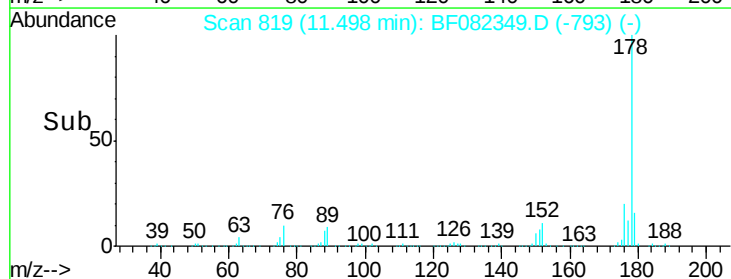
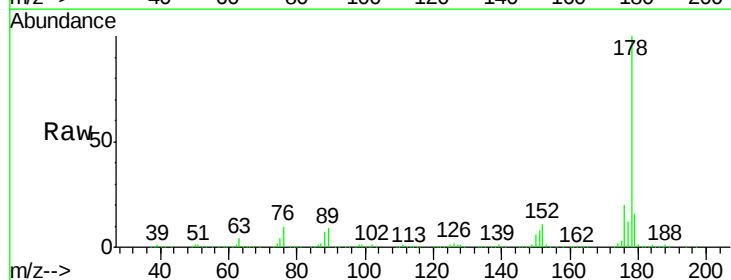
Tgt Ion:178 Resp: 808504

Ion Ratio Lower Upper

178 100

176 19.6 16.0 24.0

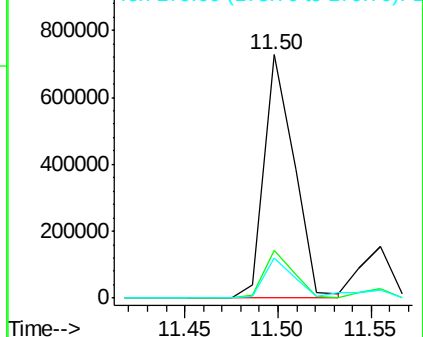
179 16.2 12.6 19.0

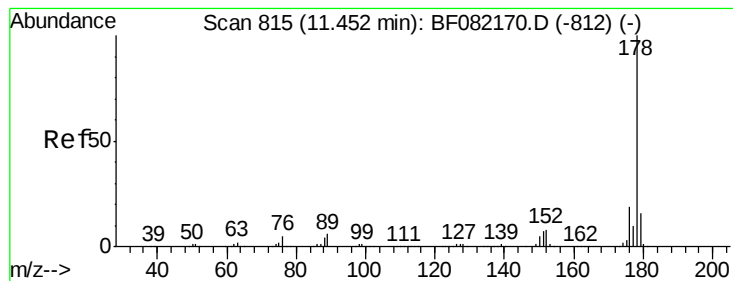


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 15.35 ng

RT: 11.56 min Scan# 824

Delta R.T. 0.01 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

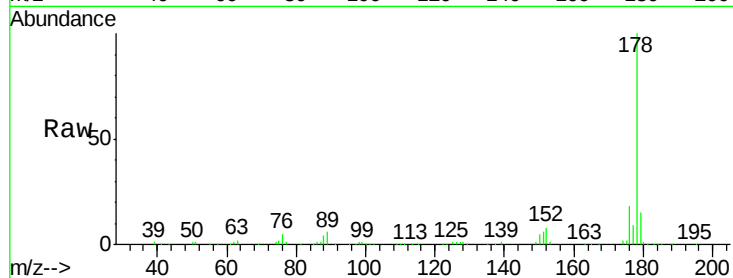
Tot Ion:178 Resp: 191384

Ion Ratio Lower Upper

178 100

176 18.2 15.4 23.0

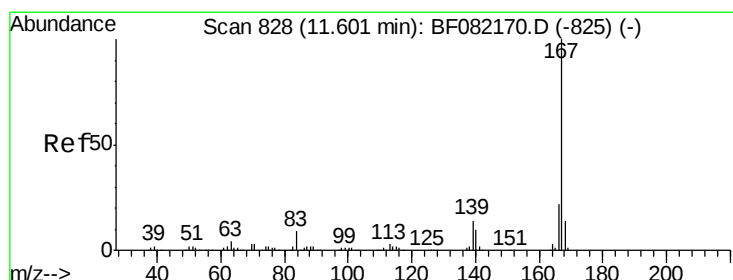
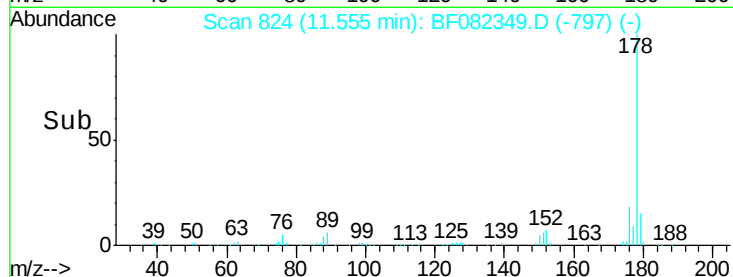
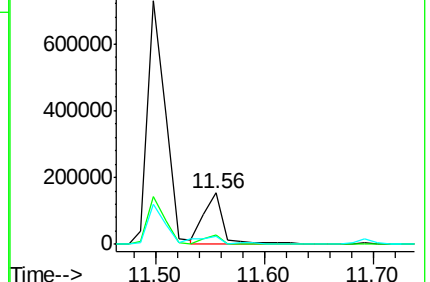
179 15.3 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 10.50 ng

RT: 11.70 min Scan# 837

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

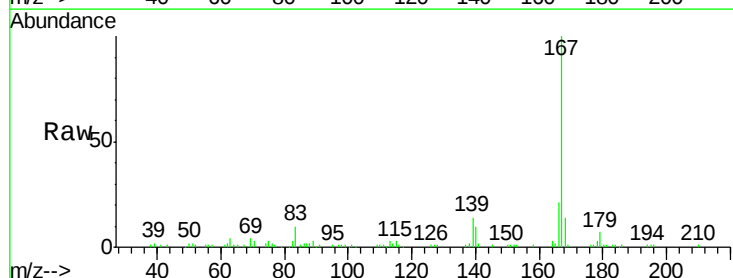
Tgt Ion:167 Resp: 119415

Ion Ratio Lower Upper

167 100

166 21.0 17.3 25.9

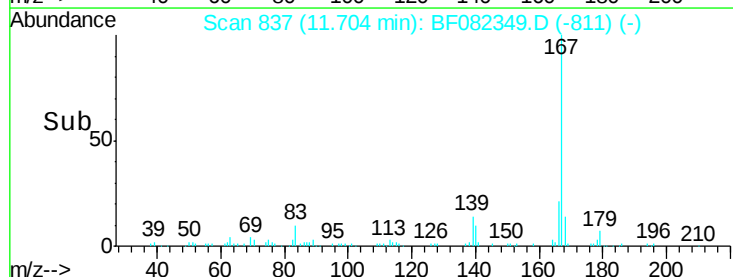
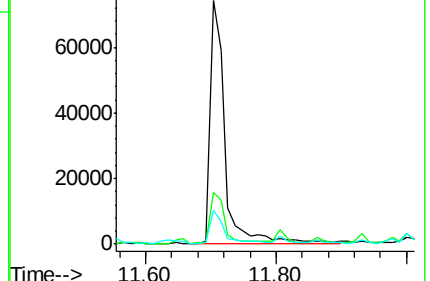
139 13.6 11.2 16.8

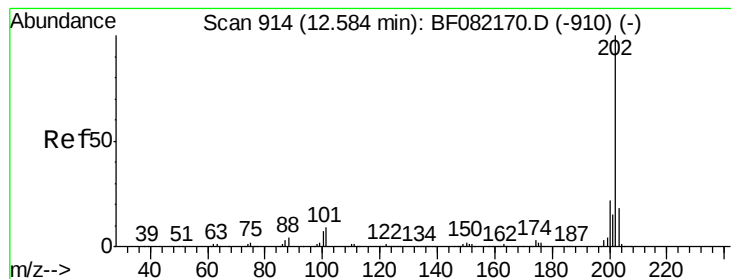


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 63.97 ng

RT: 12.69 min Scan# 923

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

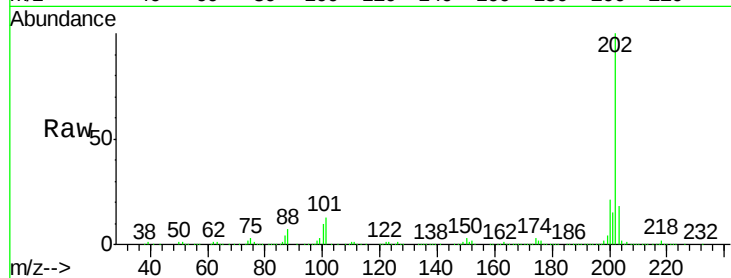
Tot Ion:202 Resp: 831124

Ion Ratio Lower Upper

202 100

101 13.1 0.0 29.3

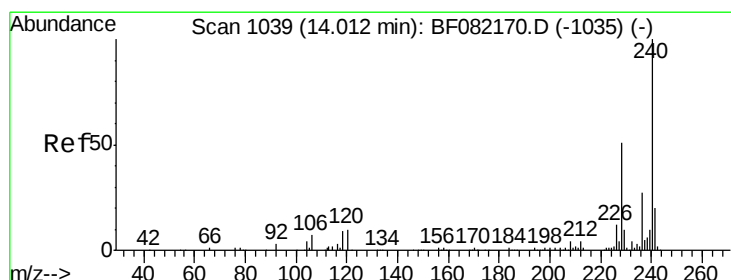
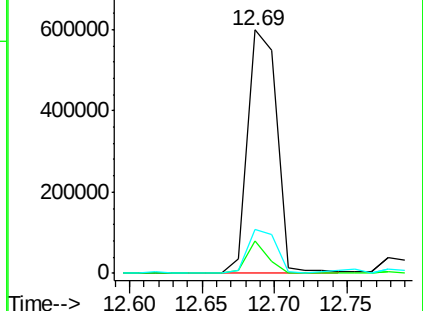
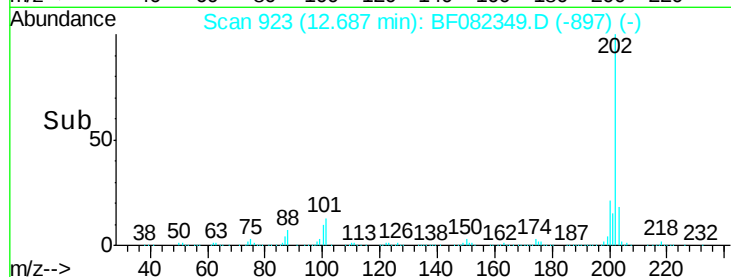
203 18.3 0.0 37.8



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: 14.14 min Scan# 1050

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

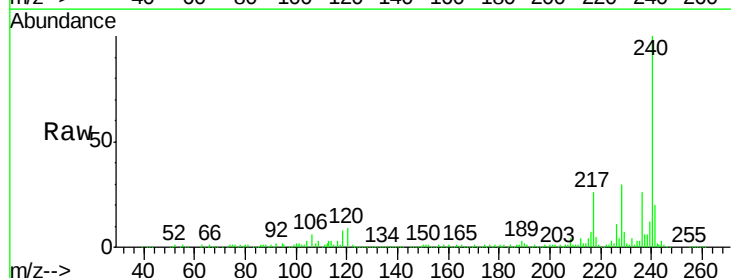
Tgt Ion:240 Resp: 219493

Ion Ratio Lower Upper

240 100

120 8.7 8.1 12.1

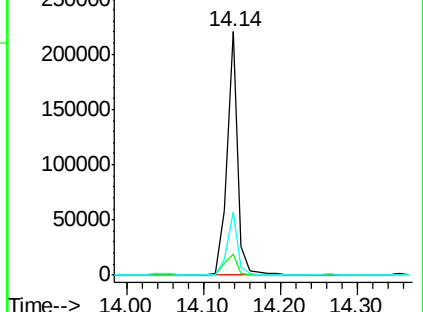
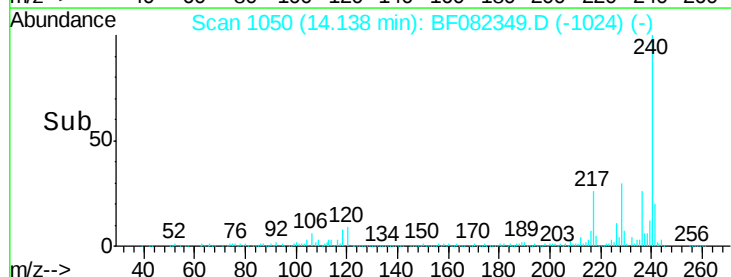
236 25.7 21.3 31.9

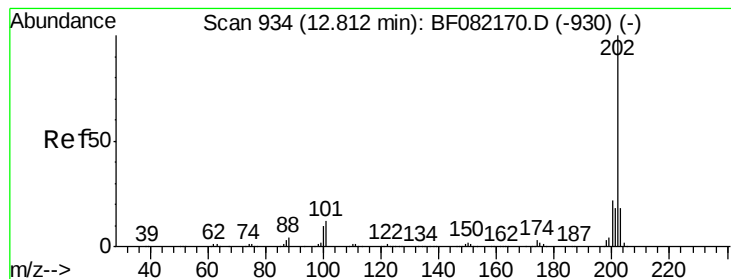


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 49.54 ng

RT: 12.92 min Scan# 943

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

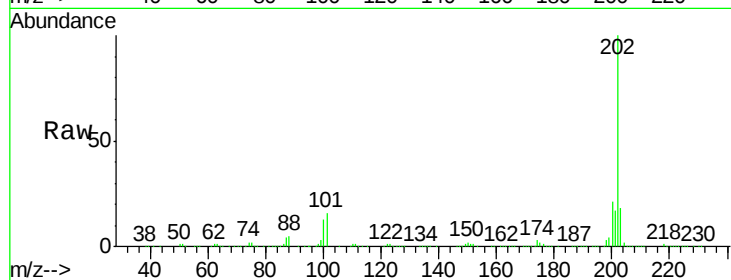
Tot Ion:202 Resp: 645282

Ion Ratio Lower Upper

202 100

200 21.3 17.9 26.9

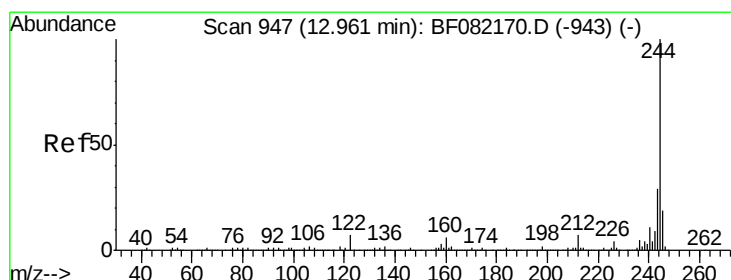
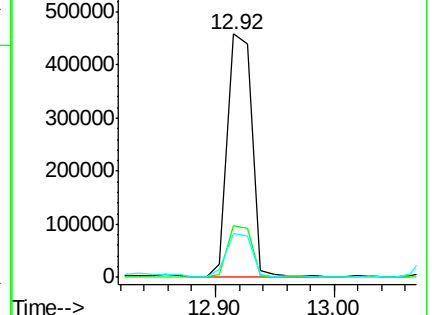
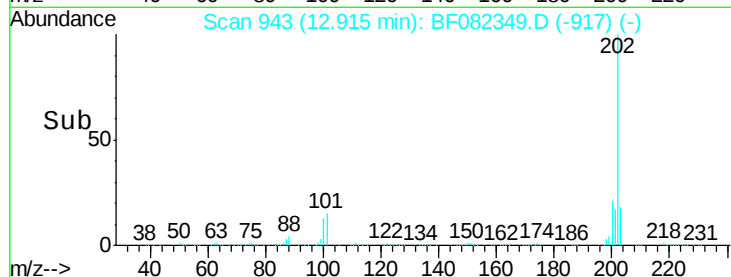
203 18.0 14.5 21.7



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: 2.32 ng

RT: 13.05 min Scan# 955

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

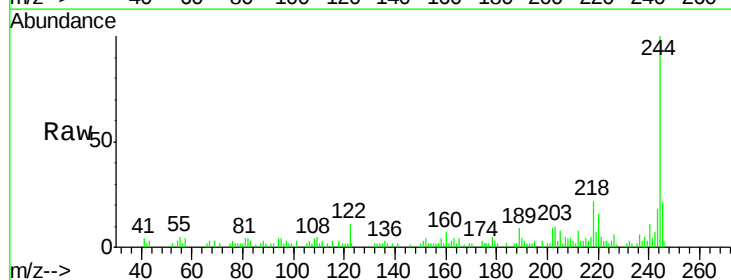
Tgt Ion:244 Resp: 19212

Ion Ratio Lower Upper

244 100

212 7.7 5.8 8.6

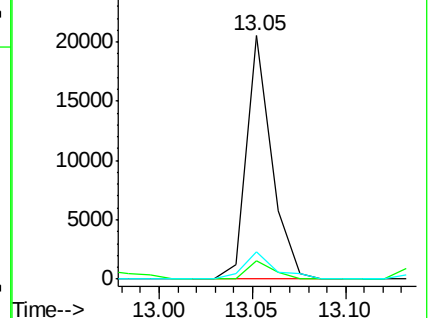
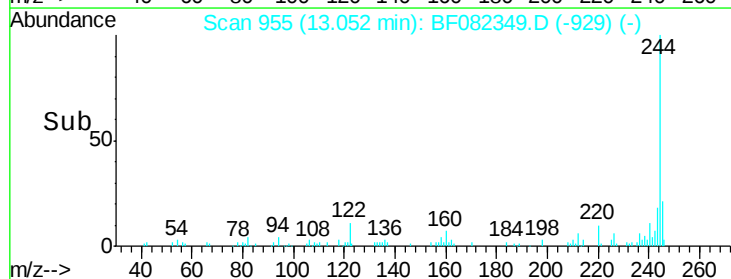
122 11.3 5.9 8.9#

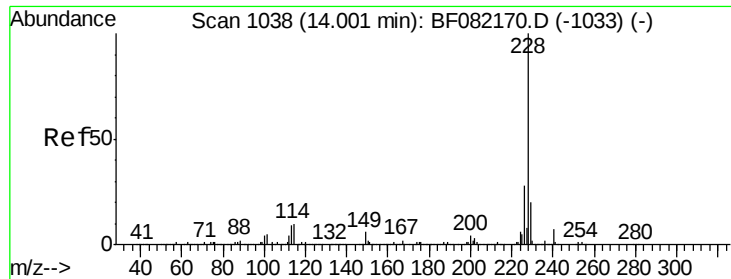


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 36.80 ng

RT: 14.13 min Scan# 1049

Delta R.T. 0.00 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

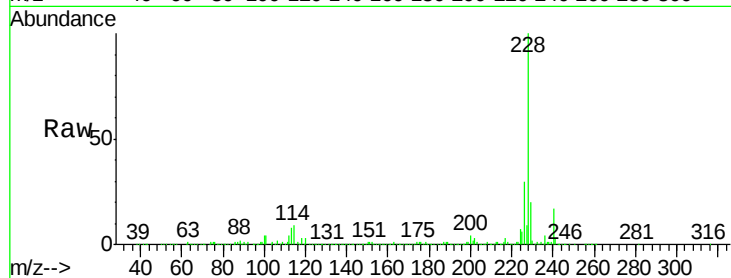
Tot Ion:228 Resp: 420228

Ion Ratio Lower Upper

228 100

226 30.4 22.3 33.5

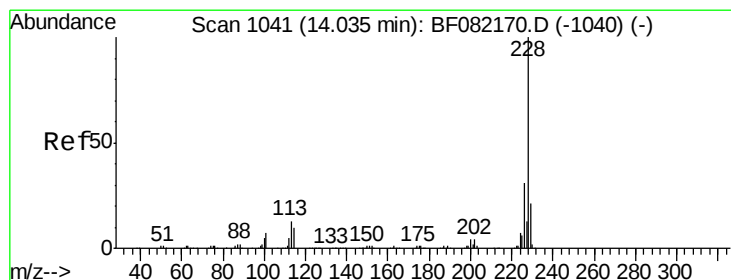
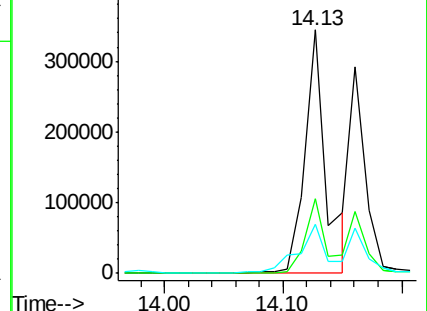
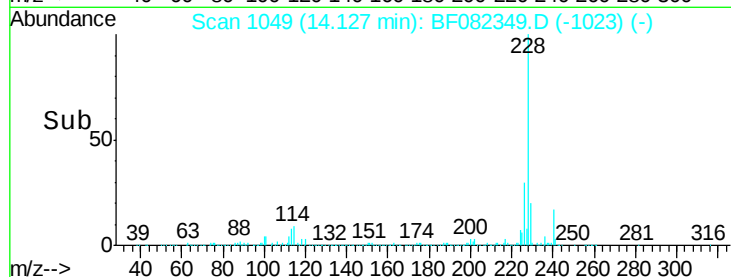
229 20.3 16.2 24.2



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



#82

Chrysene

Concen: 22.63 ng

RT: 14.16 min Scan# 1052

Delta R.T. -0.01 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

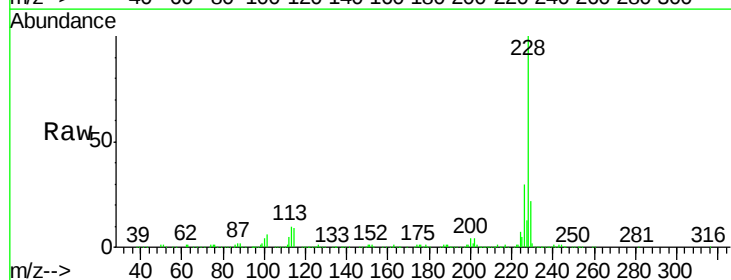
Tgt Ion:228 Resp: 272329

Ion Ratio Lower Upper

228 100

226 29.9 24.4 36.6

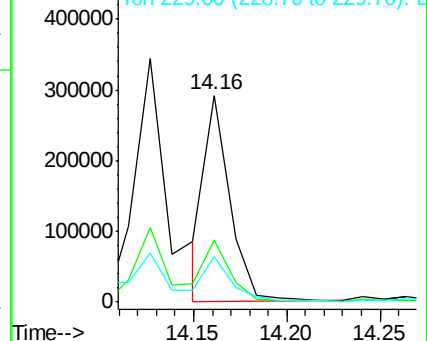
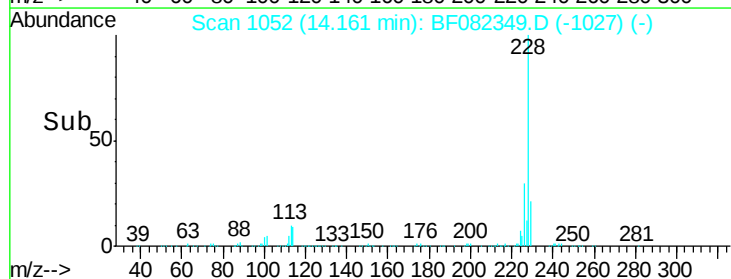
229 21.9 16.3 24.5

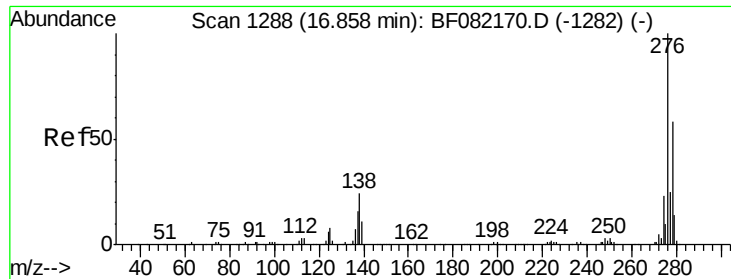


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

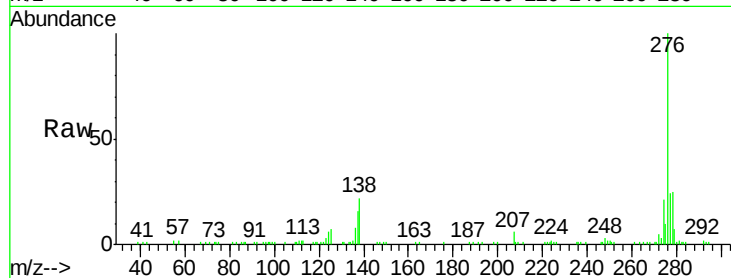




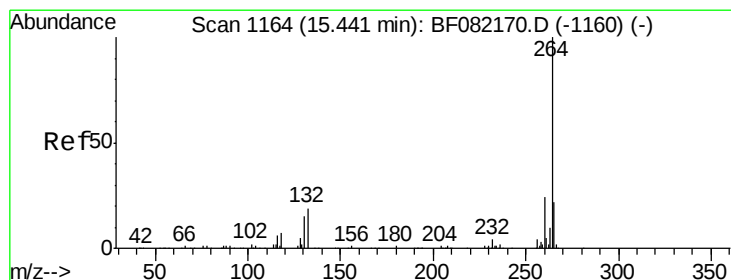
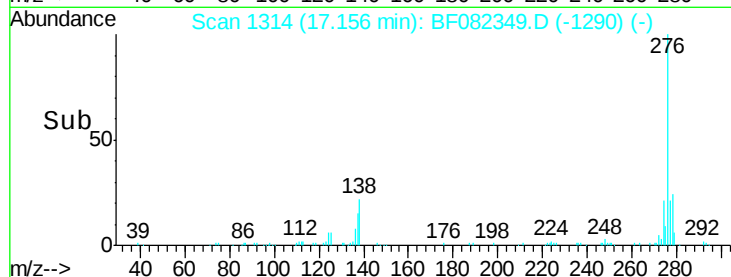
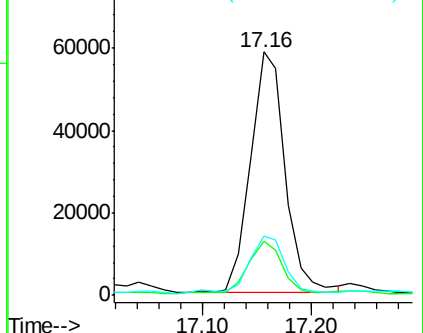
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.47 ng
 RT: 17.16 min Scan# 1314
 Delta R.T. -0.02 min
 Lab File: BF082349.D
 Acq: 17 Oct 2015 3:28

Instrument :
 BNA_F
 ClientSampleId :
 CS-13DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.1	19.7	29.5
277	24.5	20.1	30.1

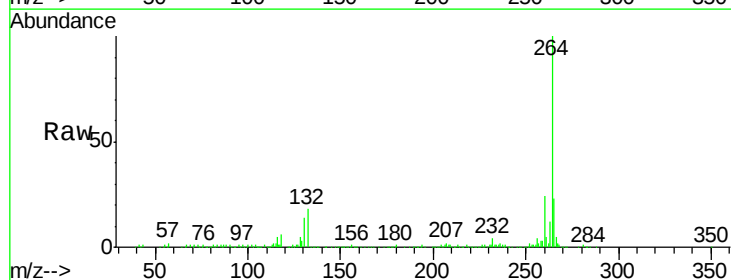


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

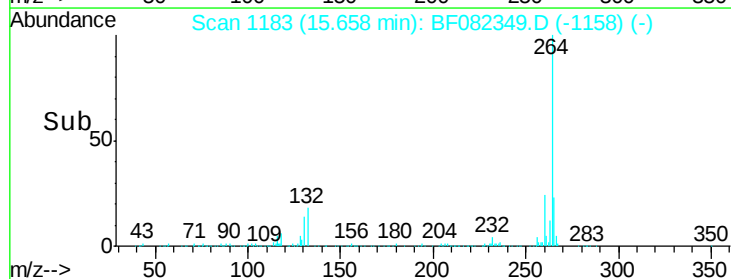
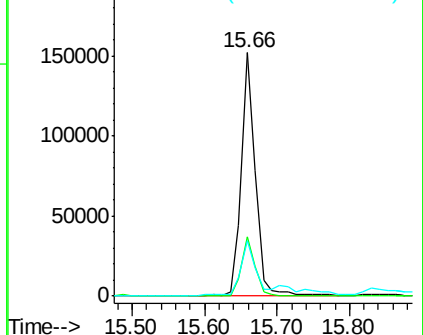


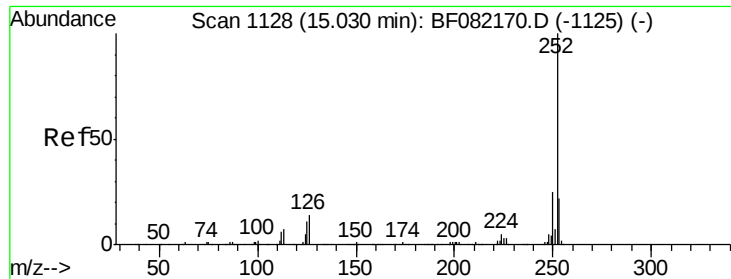
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.66 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: BF082349.D
 Acq: 17 Oct 2015 3:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.0	28.6
265	22.6	17.3	25.9



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

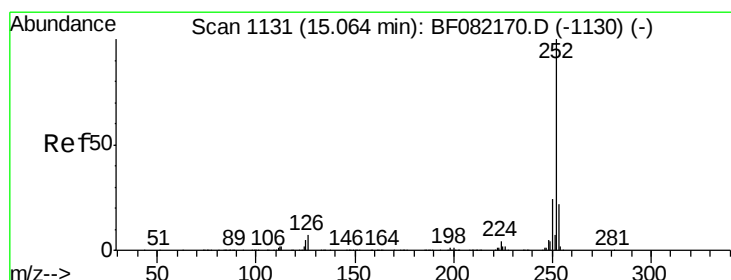
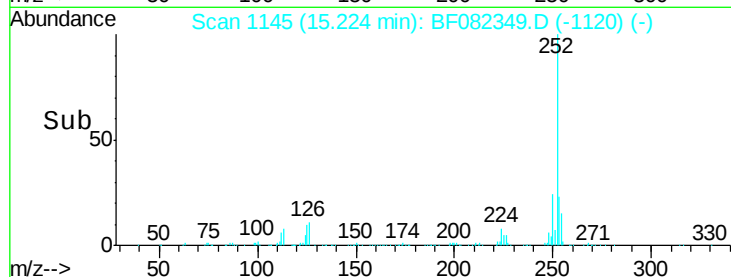
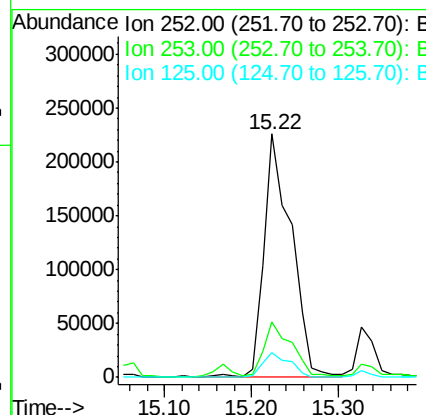
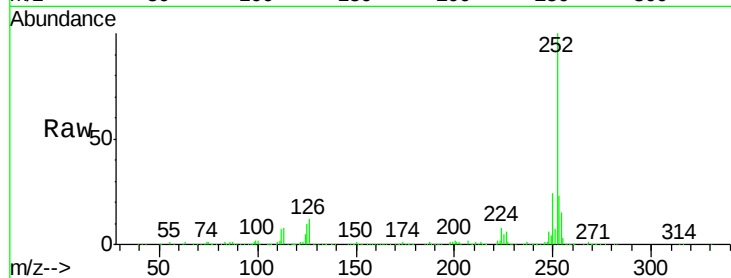




#87
Benzo(b)fluoranthene
Concen: 38.66 ng
RT: 15.22 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF082349.D
Acq: 17 Oct 2015 3:28

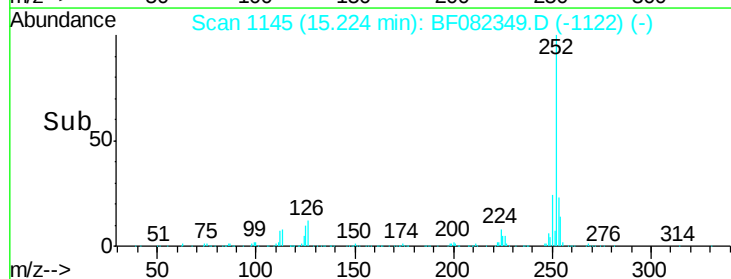
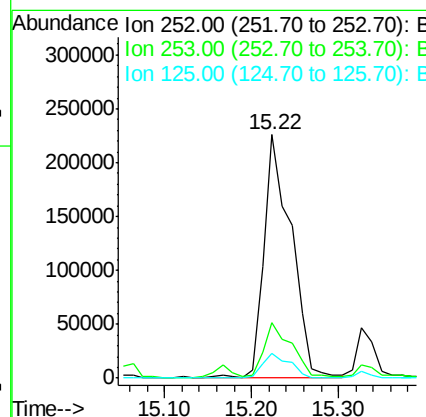
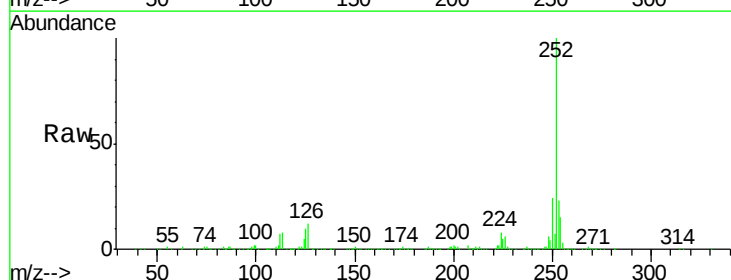
Instrument :
BNA_F
ClientSampleId :
CS-13DL

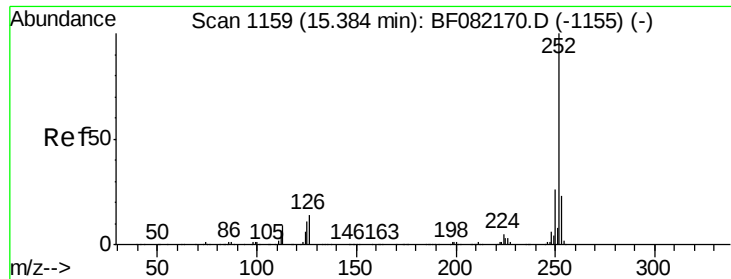
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	10.2	8.6	12.8



#88
Benzo(k)fluoranthene
Concen: 46.00 ng
RT: 15.22 min Scan# 1145
Delta R.T. -0.03 min
Lab File: BF082349.D
Acq: 17 Oct 2015 3:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	10.2	6.7	10.1#

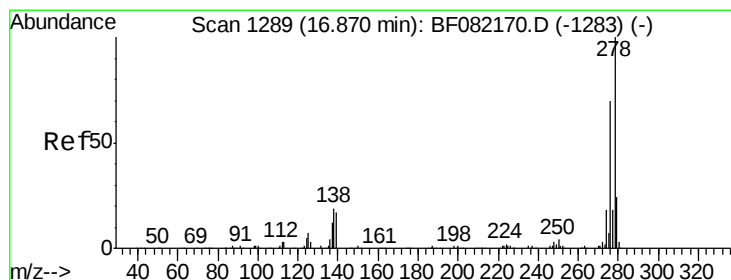
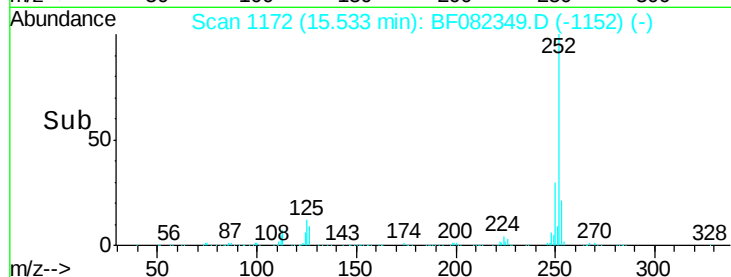
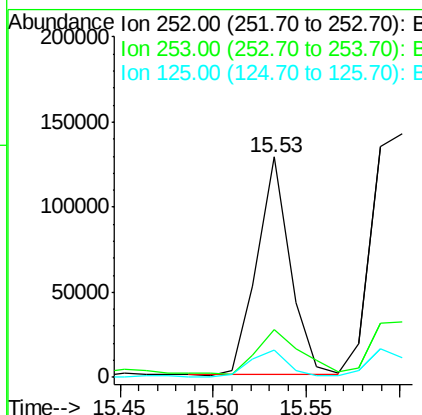
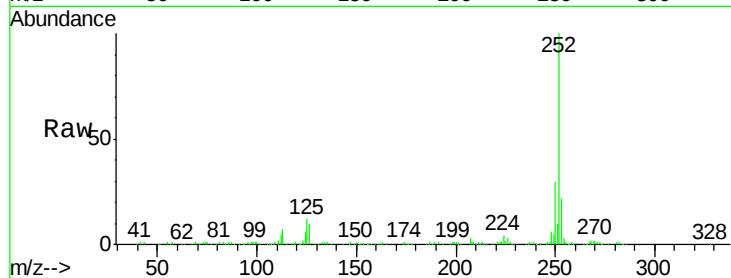




#89
Benzo(a)pyrene
Concen: 14.51 ng
RT: 15.53 min Scan# 1172
Delta R.T. -0.07 min
Lab File: BF082349.D
Acq: 17 Oct 2015 3:28

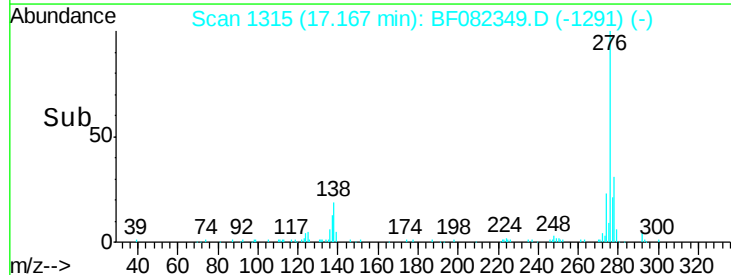
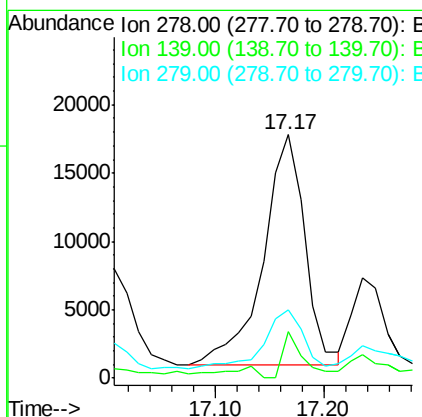
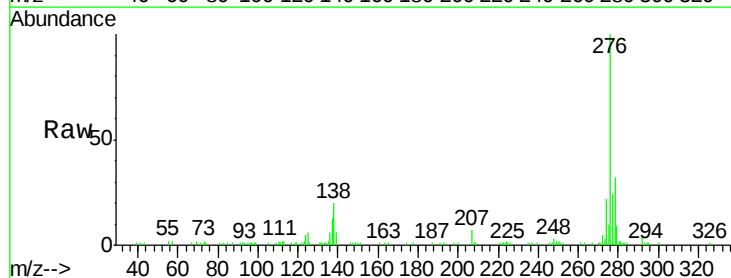
Instrument :
BNA_F
ClientSampleId :
CS-13DL

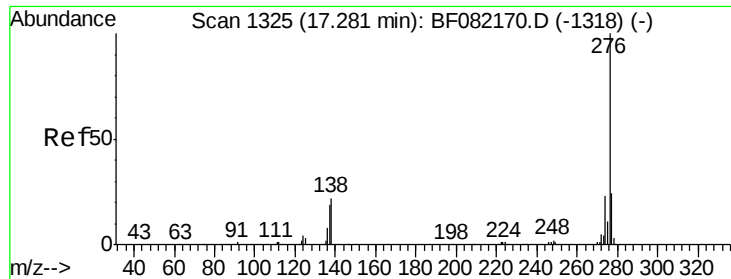
Tot Ion:252 Resp: 157853
Ion Ratio Lower Upper
252 100
253 21.8 18.2 27.2
125 12.4 8.9 13.3



#90
Dibenzo(a,h)anthracene
Concen: 5.05 ng
RT: 17.17 min Scan# 1315
Delta R.T. -0.02 min
Lab File: BF082349.D
Acq: 17 Oct 2015 3:28

Tgt Ion:278 Resp: 45009
Ion Ratio Lower Upper
278 100
139 19.1 13.3 19.9
279 28.1 18.9 28.3





#91

Benzo(a,h,i)perylene

Concen: 12.10 ng

RT: 17.61 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF082349.D

Acq: 17 Oct 2015 3:28

Instrument :

BNA_F

ClientSampleId :

CS-13DL

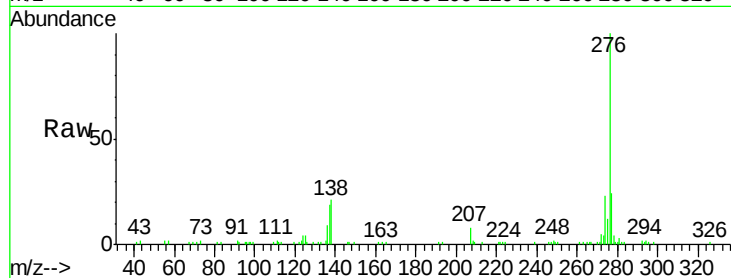
Tot Ion: 276 Resp: 104797

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 21.3 17.4 26.2



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

