

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101317\
 Data File : BF099462.D
 Acq On : 14 Oct 2017 1:49
 Operator : SJ/JU
 Sample : I5819-16
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 4099-QC-2

Quant Time: Oct 14 02:31:38 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 16:25:21 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	94783	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	371373	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	148644	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	223205	20.00	ng	0.00
75) Chrysene-d12	14.02	240	165770	20.00	ng	0.00
86) Perylene-d12	15.50	264	183912	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	398490	66.93	ng	0.02
7) Phenol-d6	6.49	99	307980	41.93	ng	0.00
23) Nitrobenzene-d5	7.42	82	527385	91.07	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	135323	111.26	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	946116	106.26	ng	0.00
78) Terphenyl-d14	12.96	244	639053	87.67	ng	0.00

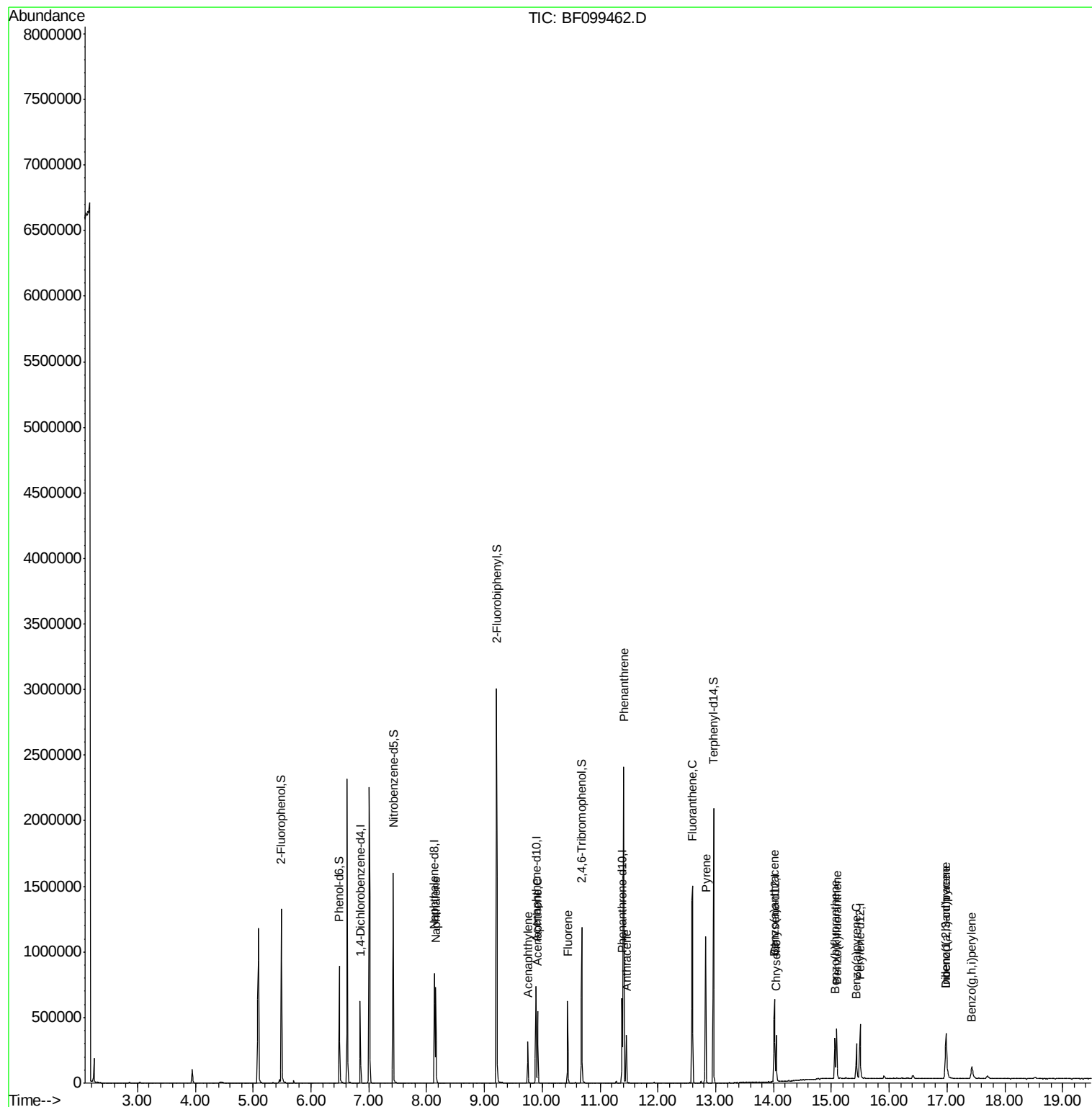
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.16	128	303726	17.41	ng	100
48) Acenaphthylene	9.75	152	130226	8.87	ng	98
51) Acenaphthene	9.92	154	108076	11.62	ng	99
57) Fluorene	10.44	166	165576	16.63	ng	98
70) Phenanthrene	11.41	178	975997	81.69	ng	99
71) Anthracene	11.46	178	153708	12.57	ng	96
74) Fluoranthene	12.60	202	620883	51.32	ng	98
77) Pyrene	12.83	202	479011	37.89	ng	98
80) Benzo(a)anthracene	14.01	228	139548	13.90	ng	98
82) Chrysene	14.04	228	122012	12.77	ng	97
85) Indeno(1,2,3-cd)pyrene	16.98	276	181615	23.76	ng	98
87) Benzo(b)fluoranthene	15.06	252	124516	11.01	ng	98
88) Benzo(k)fluoranthene	15.09	252	161341	14.45	ng	98
89) Benzo(a)pyrene	15.43	252	126789	12.22	ng	98
90) Dibenzo(a,h)anthracene	16.99	278	111553	13.43	ng	97
91) Benzo(g,h,i)perylene	17.43	276	77751	9.47	ng	95

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

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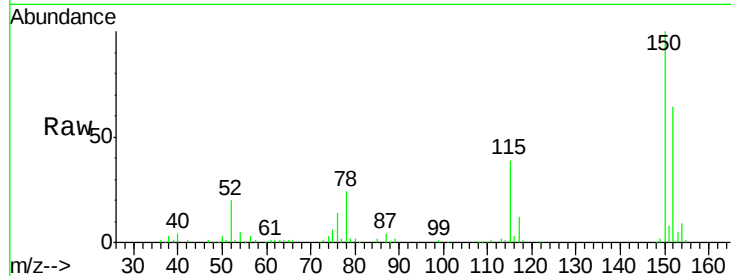


#1

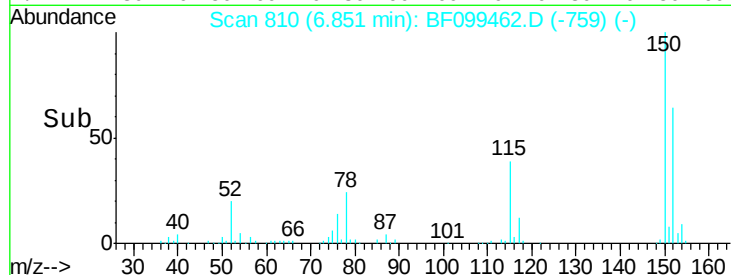
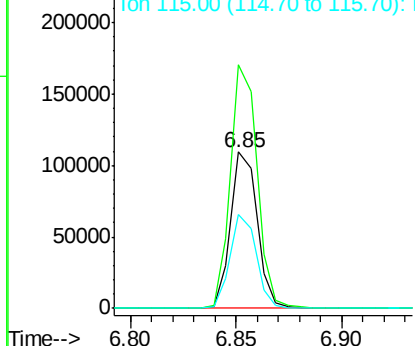
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.85 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: BF099462.D
 Acq: 14 Oct 2017 1:49

Instrument :
 BNA_F
 ClientSampleId :
 4099-QC-2

Tgt Ion:152 Resp: 94783
 Ion Ratio Lower Upper
 152 100
 150 155.7 124.6 186.8
 115 60.4 50.1 75.1



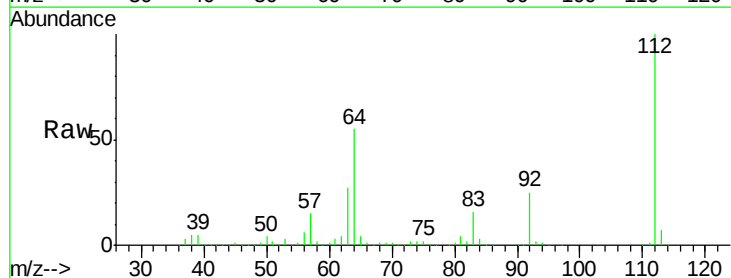
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



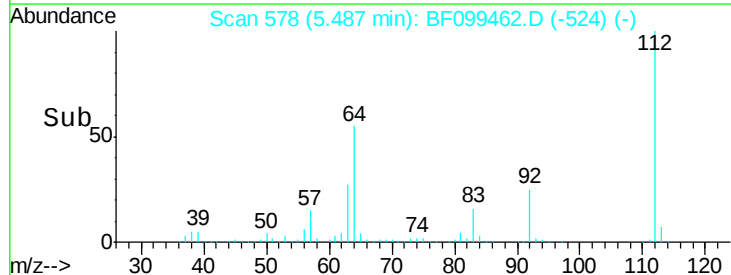
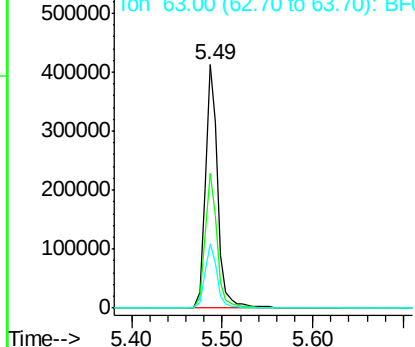
#5

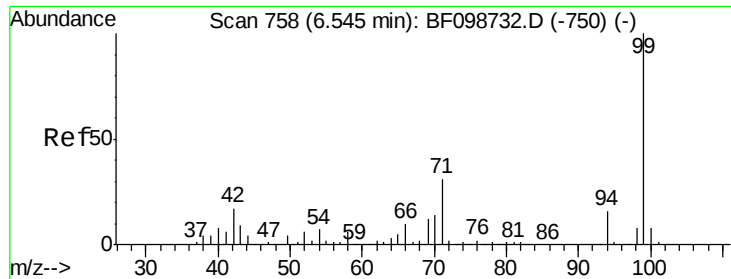
2-Fluorophenol
 Concen: 66.93 ng
 RT: 5.49 min Scan# 578
 Delta R.T. 0.02 min
 Lab File: BF099462.D
 Acq: 14 Oct 2017 1:49

Tgt Ion:112 Resp: 398490
 Ion Ratio Lower Upper
 112 100
 64 55.4 47.9 71.9
 63 26.6 23.7 35.5



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: 41.93 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

Instrument :

BNA_F

ClientSampleId :

4099-QC-2

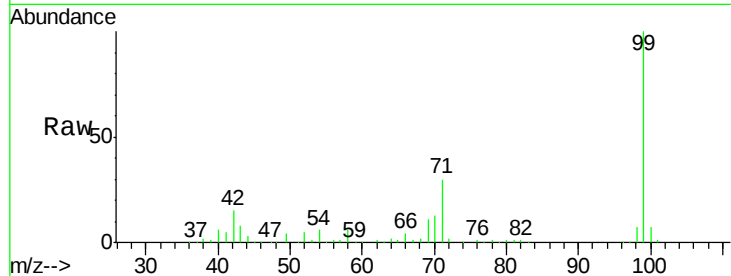
Tgt Ion: 99 Resp: 307980

Ion Ratio Lower Upper

99 100

42 15.2 14.5 21.7

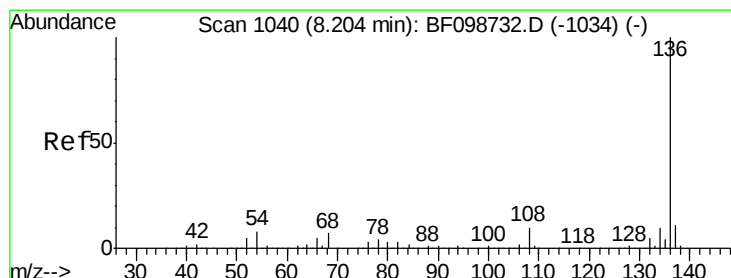
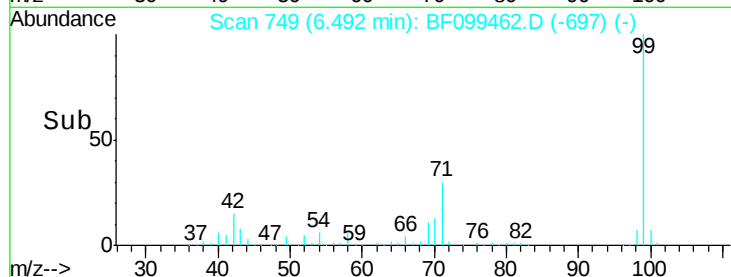
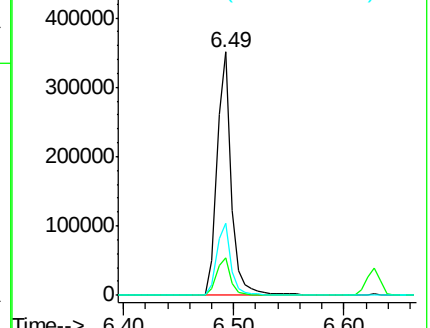
71 29.5 25.4 38.0



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: 8.13 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

Tgt Ion: 136 Resp: 371373

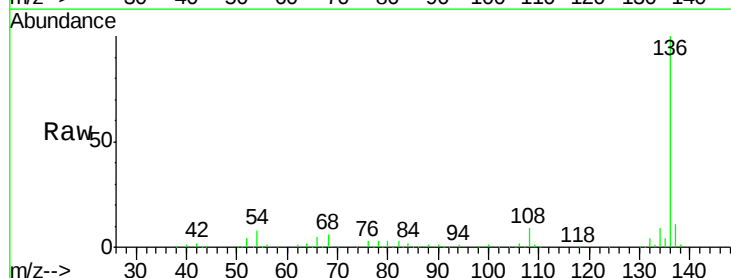
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.5 6.6 9.8

68 6.1 5.0 7.4

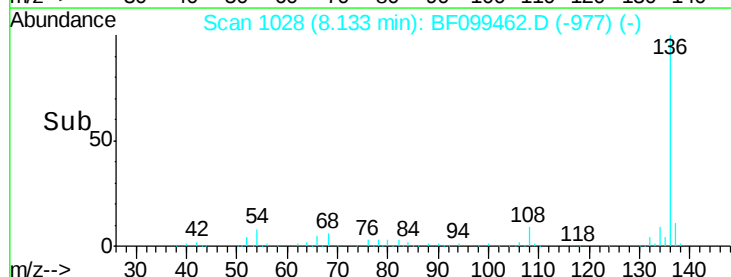
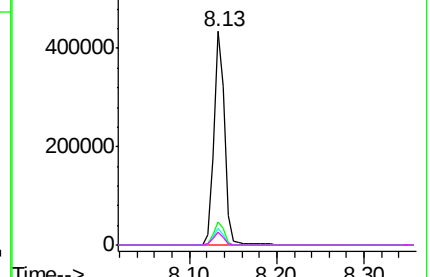


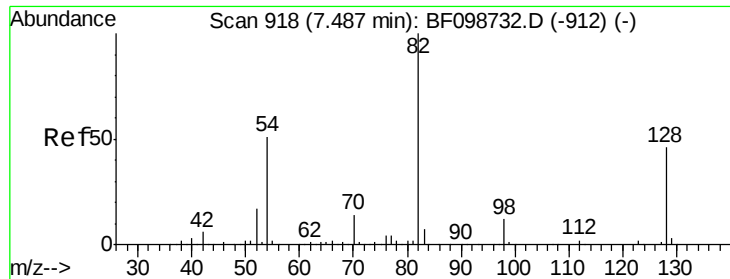
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

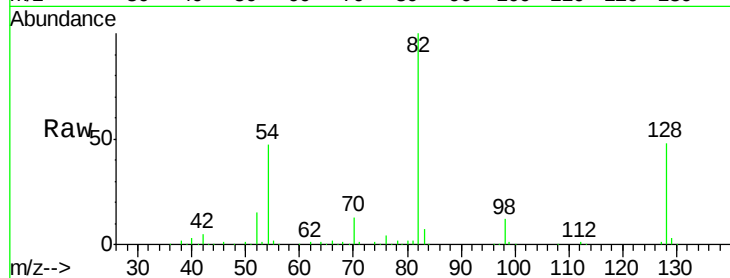




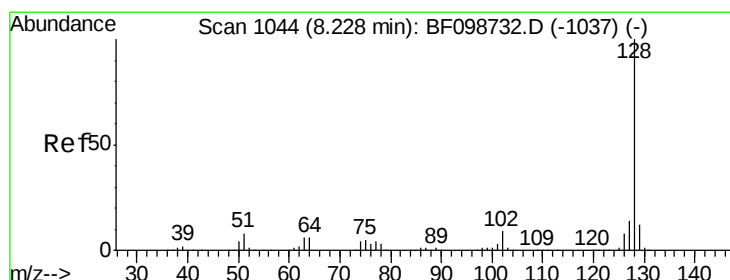
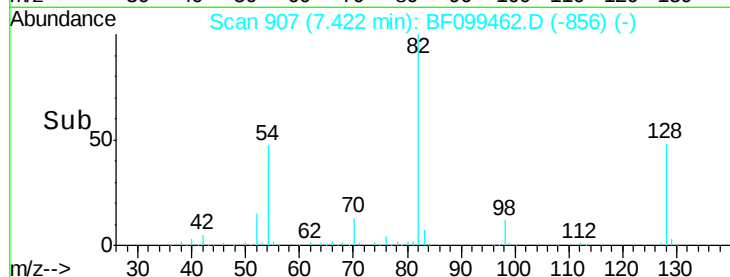
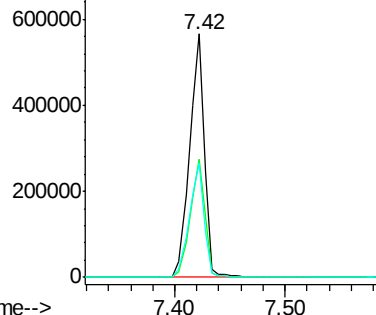
#23
Nitrobenzene-d5
Concen: 91.07 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.00 min
Lab File: BF099462.D
Acq: 14 Oct 2017 1:49

Instrument :
BNA_F
ClientSampleId :
4099-QC-2

Tgt Ion: 82 Resp: 527385
Ion Ratio Lower Upper
82 100
128 48.3 36.1 54.1
54 46.9 41.4 62.2

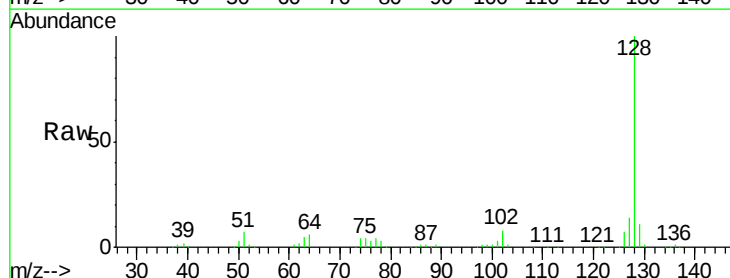


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

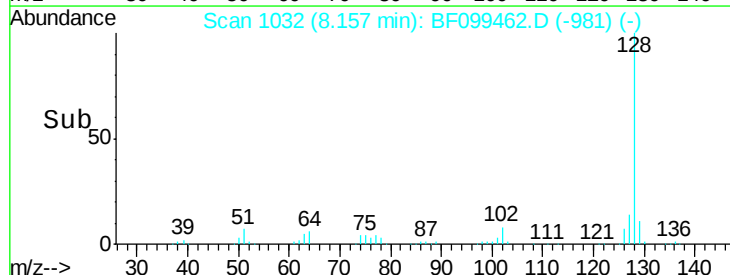
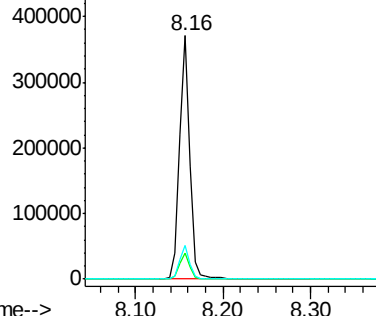


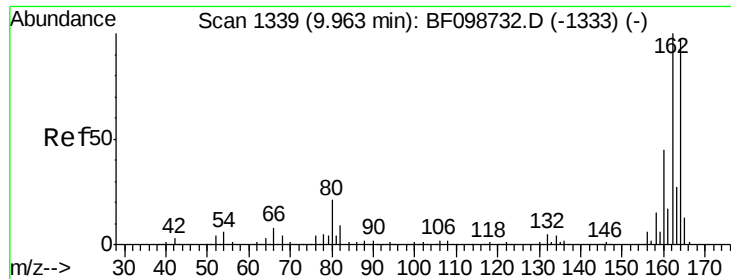
#31
Naphthalene
Concen: 17.41 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.00 min
Lab File: BF099462.D
Acq: 14 Oct 2017 1:49

Tgt Ion: 128 Resp: 303726
Ion Ratio Lower Upper
128 100
129 10.9 8.8 13.2
127 13.6 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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.00 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

Instrument :

BNA_F

ClientSampleId :

4099-QC-2

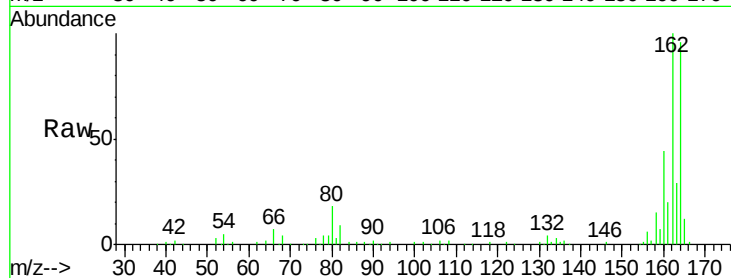
Tgt Ion:164 Resp: 148644

Ion Ratio Lower Upper

164 100

162 104.5 86.1 129.1

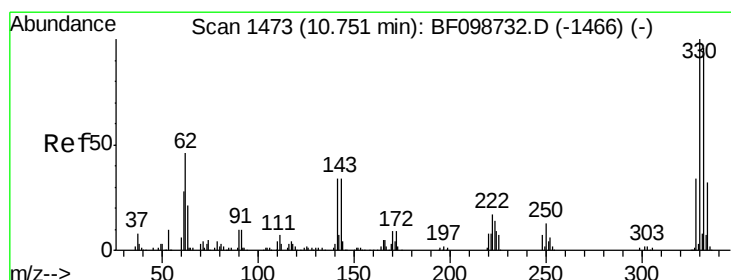
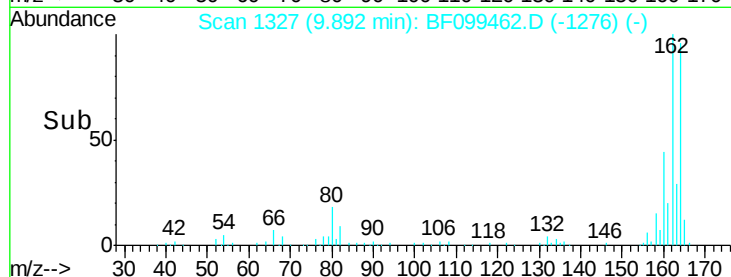
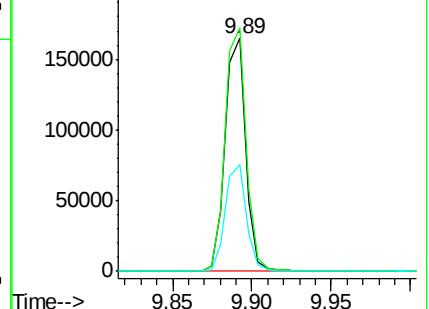
160 45.8 38.3 57.5



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: 111.26 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.00 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

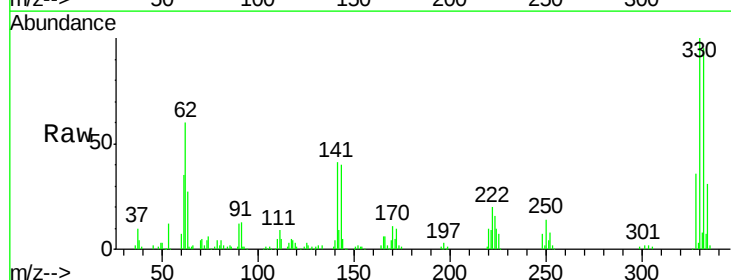
Tgt Ion:330 Resp: 135323

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

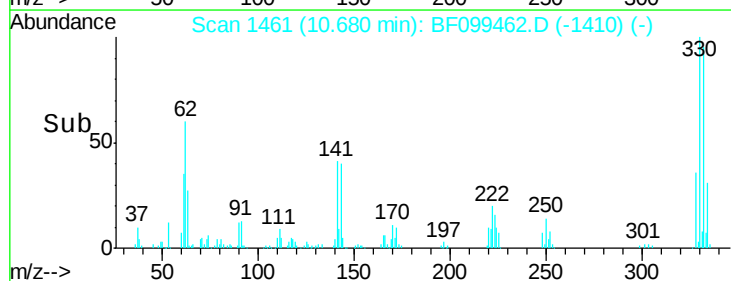
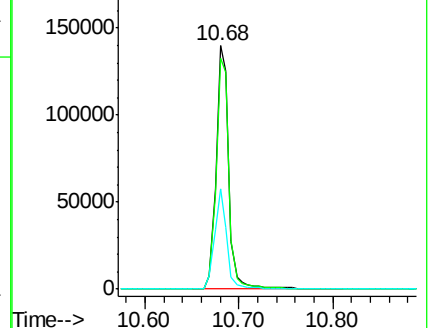
141 39.4 29.9 44.9

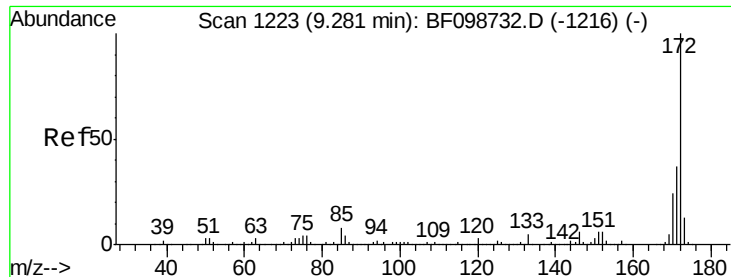


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

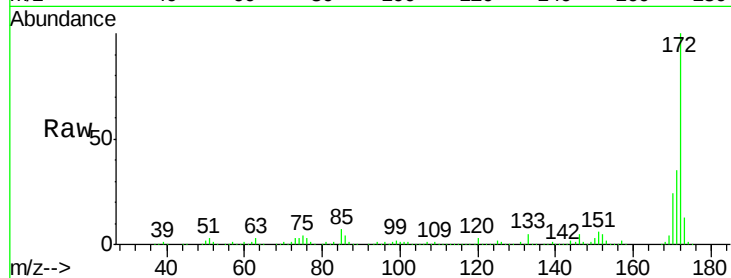




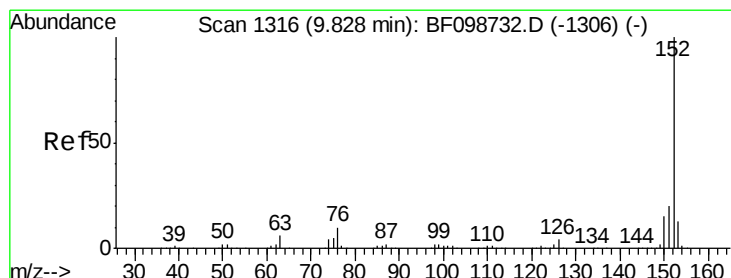
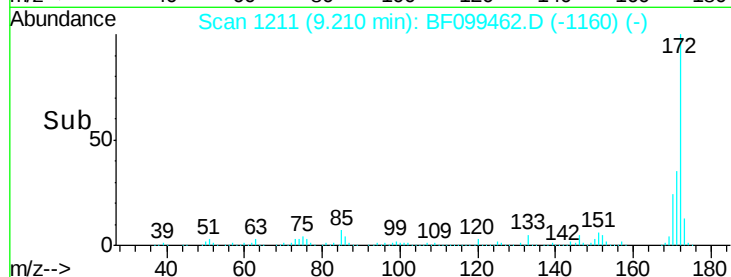
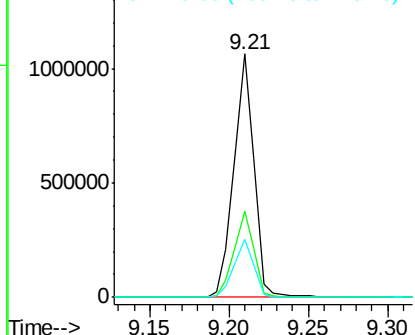
#44
 2-Fluorobiphenyl
 Concen: 106.26 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: BF099462.D
 Acq: 14 Oct 2017 1:49

Instrument :
 BNA_F
 ClientSampleId :
 4099-QC-2

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.7	44.5
170	23.9	19.6	29.4

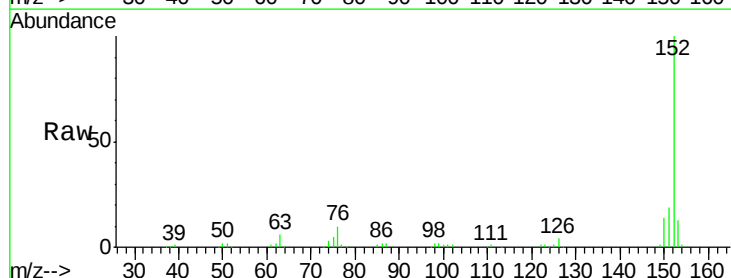


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

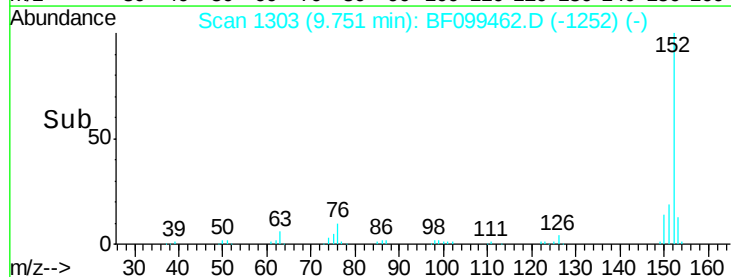
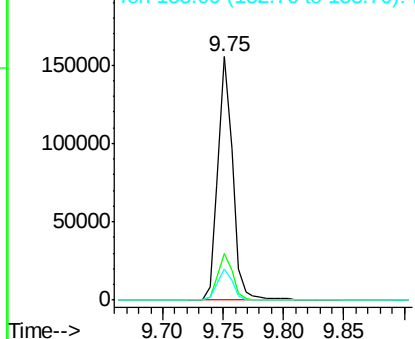


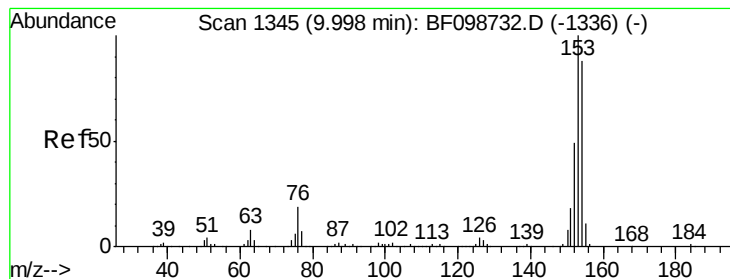
#48
 Acenaphthylene
 Concen: 8.87 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. -0.00 min
 Lab File: BF099462.D
 Acq: 14 Oct 2017 1:49

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.3	24.5
153	12.9	10.7	16.1



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 11.62 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

Instrument :

BNA_F

ClientSampleId :

4099-QC-2

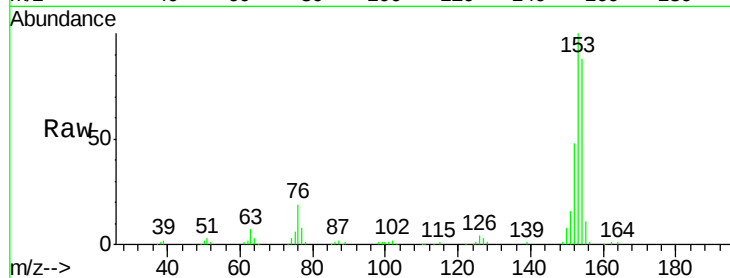
Tgt Ion:154 Resp: 108076

Ion Ratio Lower Upper

154 100

153 113.2 91.2 136.8

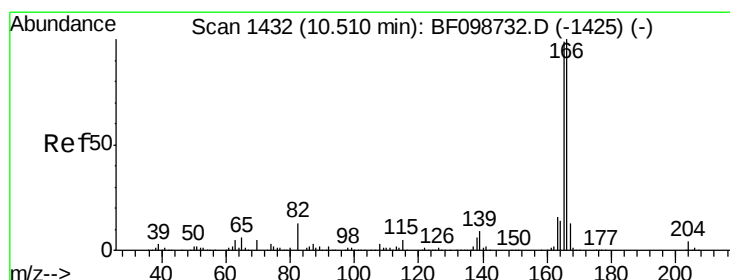
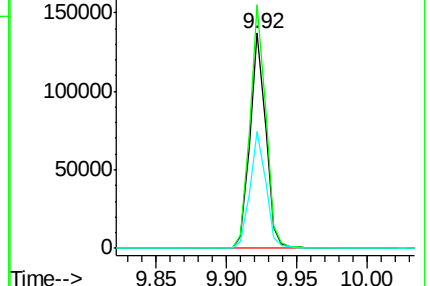
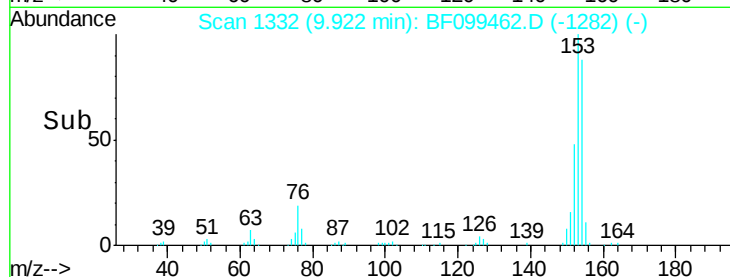
152 54.1 43.8 65.8



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



#57

Fluorene

Concen: 16.63 ng

RT: 10.44 min Scan# 1420

Delta R.T. -0.00 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

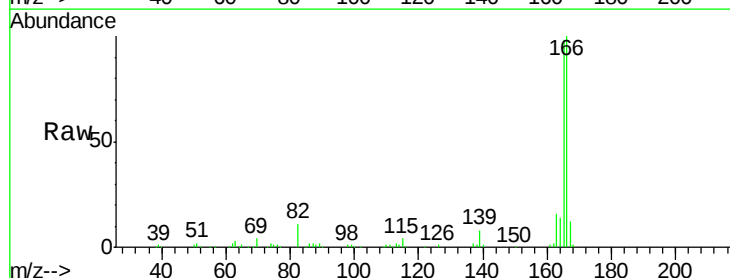
Tgt Ion:166 Resp: 165576

Ion Ratio Lower Upper

166 100

165 98.2 79.8 119.8

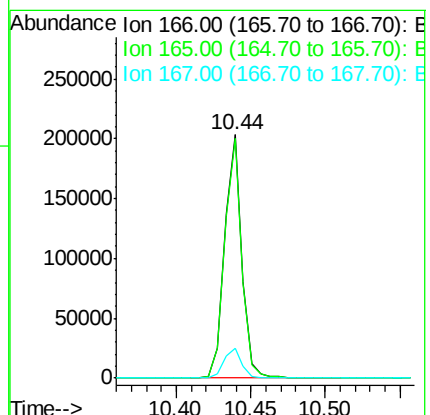
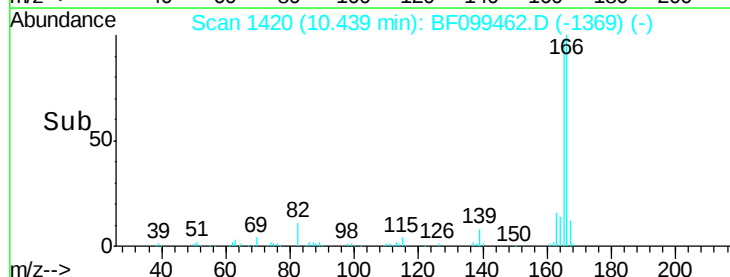
167 12.5 10.6 16.0

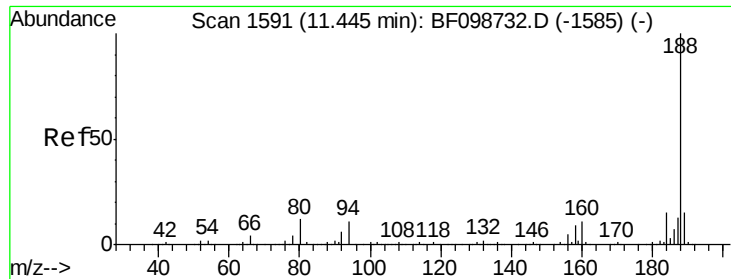


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

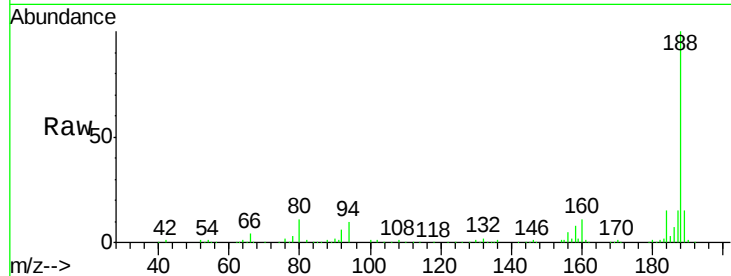




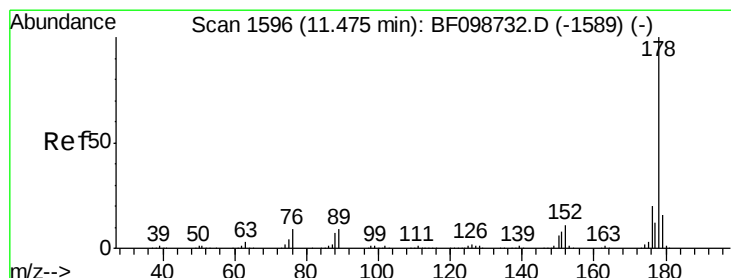
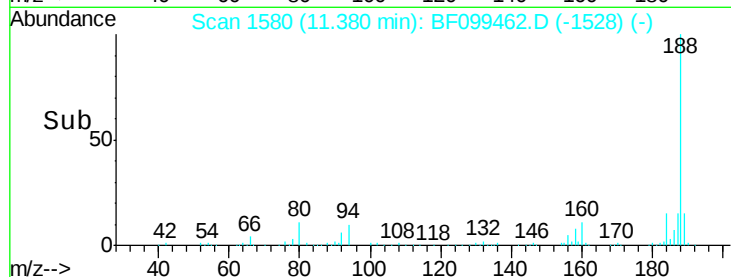
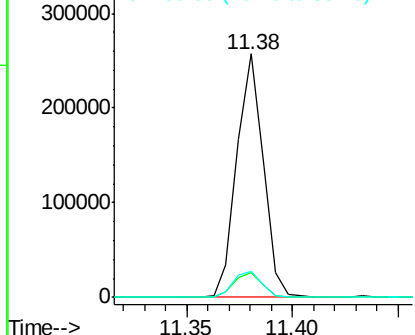
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.01 min
Lab File: BF099462.D
Acq: 14 Oct 2017 1:49

Instrument :
BNA_F
ClientSampleId :
4099-QC-2

Tgt Ion:188 Resp: 223205
Ion Ratio Lower Upper
188 100
94 10.3 8.5 12.7
80 10.9 9.2 13.8

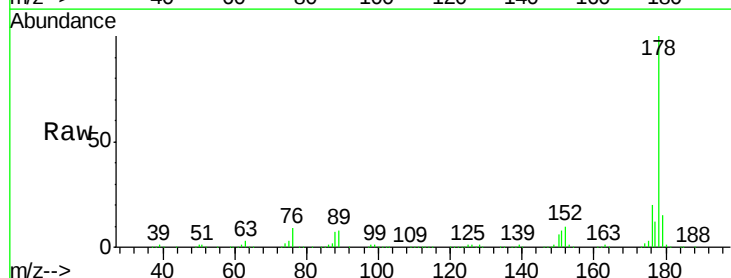


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

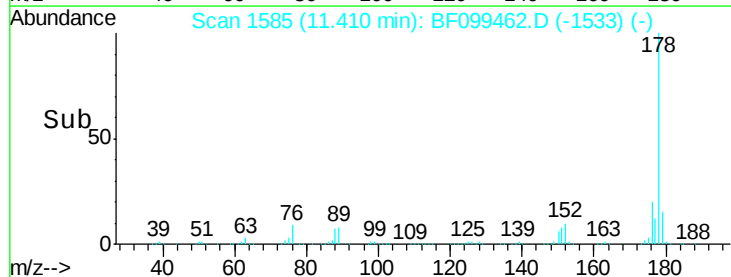
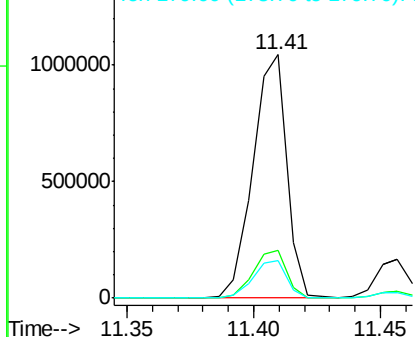


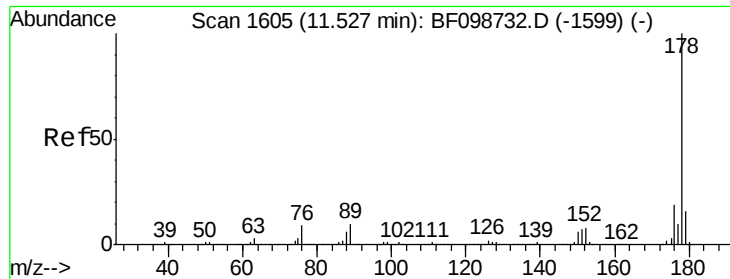
#70
Phenanthrene
Concen: 81.69 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.01 min
Lab File: BF099462.D
Acq: 14 Oct 2017 1:49

Tgt Ion:178 Resp: 975997
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.2 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

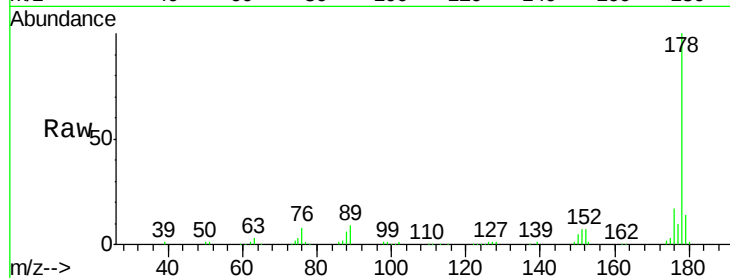




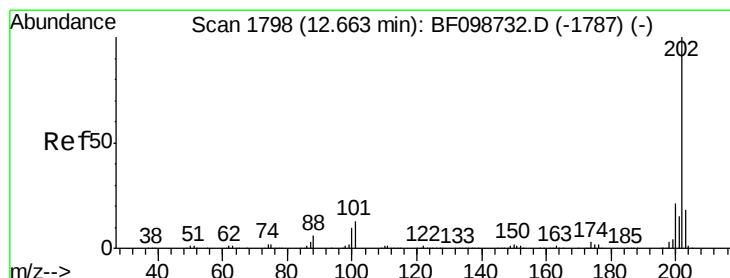
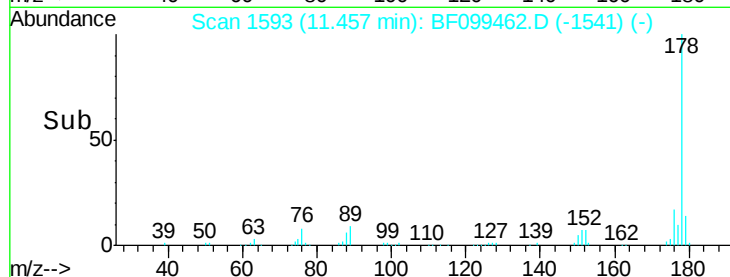
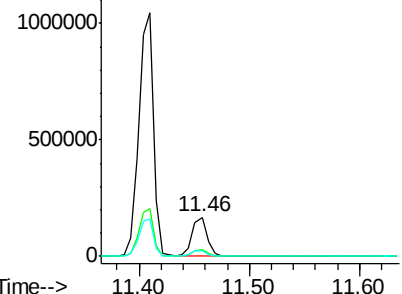
#71
 Anthracene
 Concen: 12.57 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. 0.01 min
 Lab File: BF099462.D
 Acq: 14 Oct 2017 1:49

Instrument :
 BNA_F
 ClientSampleId :
 4099-QC-2

Tgt Ion:178 Resp: 153708
 Ion Ratio Lower Upper
 178 100
 176 17.2 15.4 23.2
 179 14.5 12.6 19.0

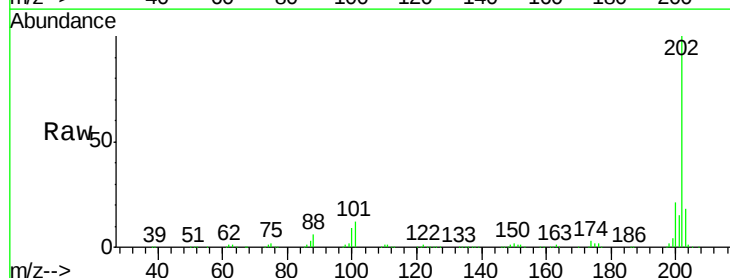


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

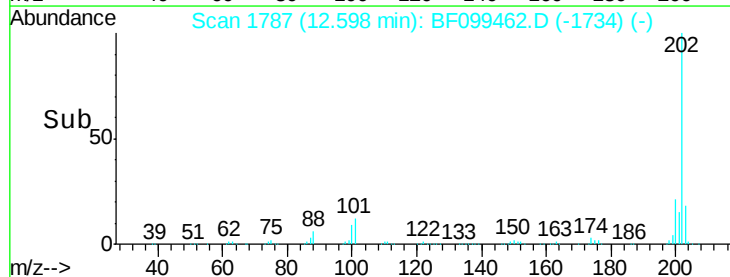
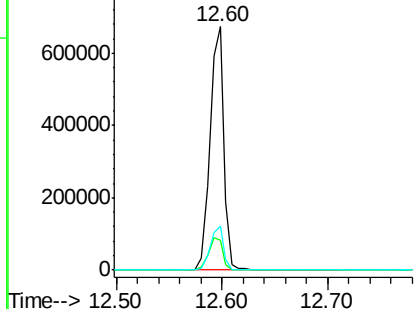


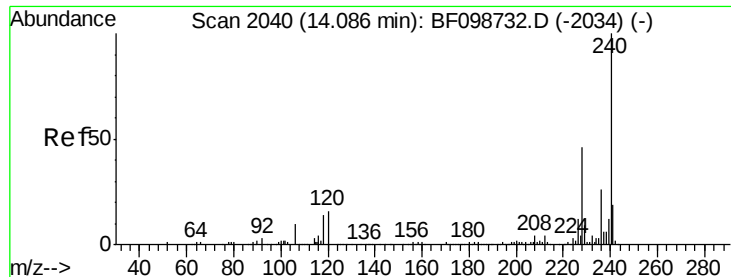
#74
 Fluoranthene
 Concen: 51.32 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. 0.01 min
 Lab File: BF099462.D
 Acq: 14 Oct 2017 1:49

Tgt Ion:202 Resp: 620883
 Ion Ratio Lower Upper
 202 100
 101 12.4 0.0 34.1
 203 17.9 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: 20.00 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

Instrument :

BNA_F

ClientSampleId :

4099-QC-2

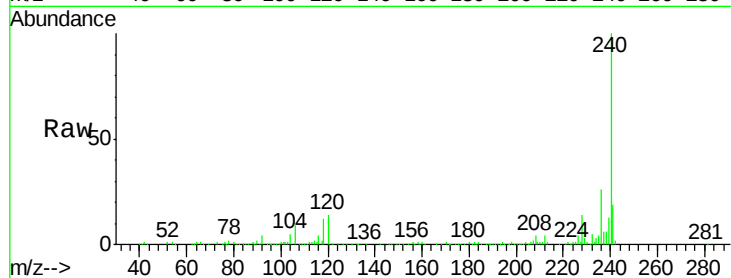
Tgt Ion:240 Resp: 165770

Ion Ratio Lower Upper

240 100

120 13.7 9.5 14.3

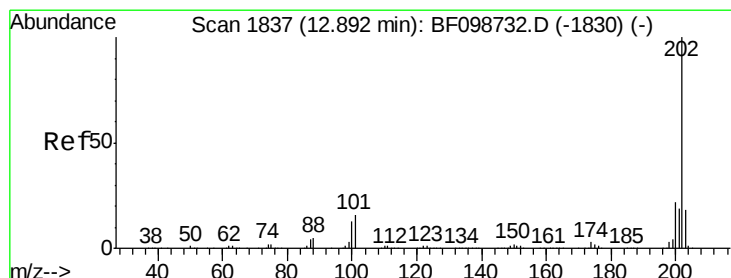
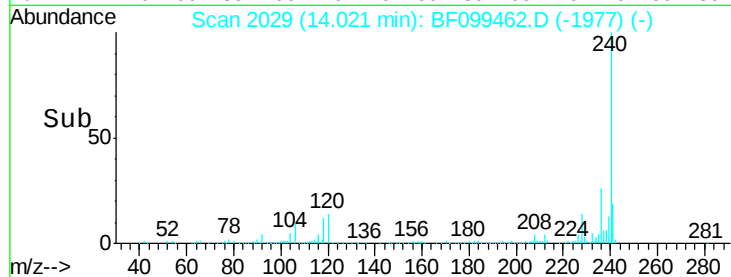
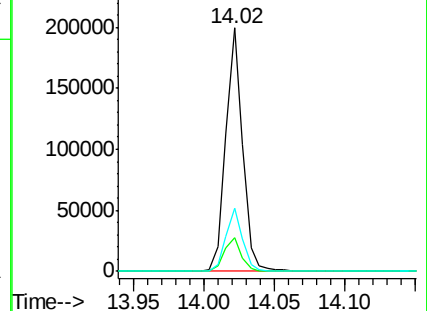
236 25.9 20.7 31.1



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: 37.89 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.01 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

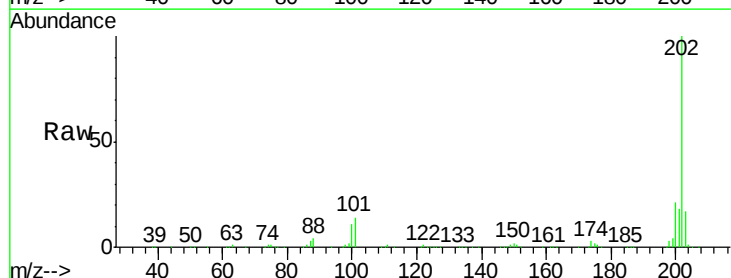
Tgt Ion:202 Resp: 479011

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

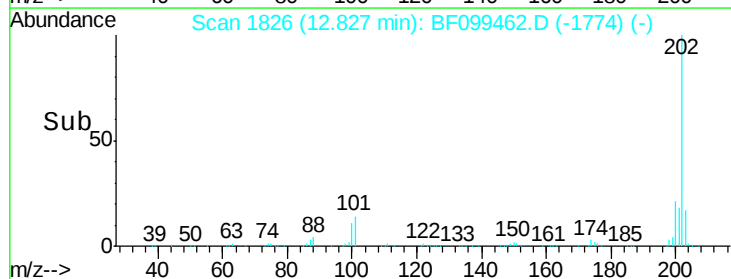
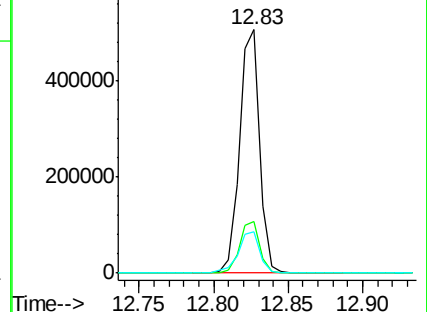
203 17.2 14.3 21.5

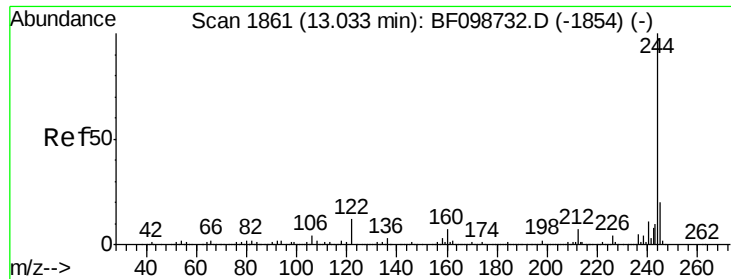


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

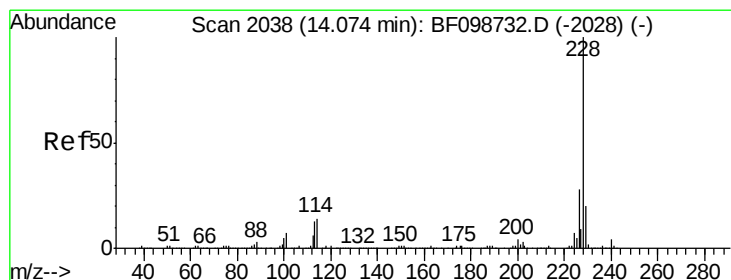
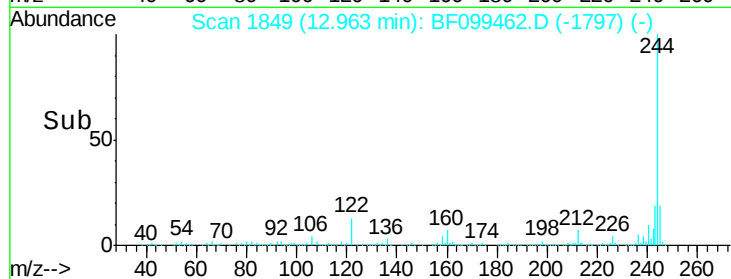
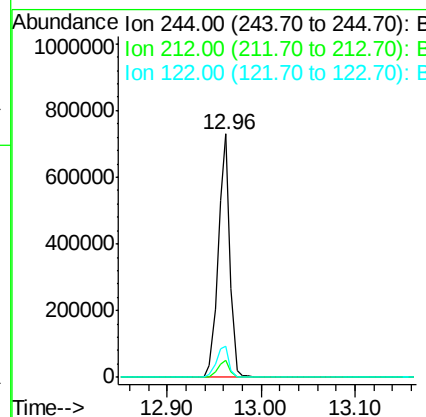
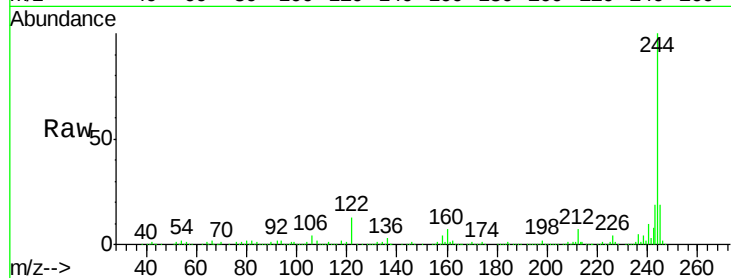




#78
 Terphenyl-d14
 Concen: 87.67 ng
 RT: 12.96 min Scan# 1849
 Delta R.T. 0.01 min
 Lab File: BF099462.D
 Acq: 14 Oct 2017 1:49

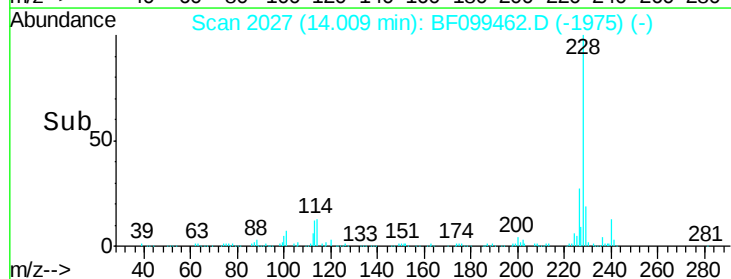
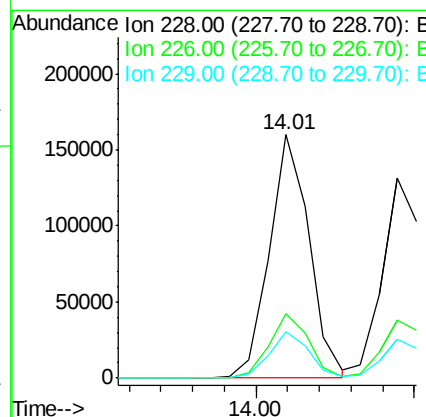
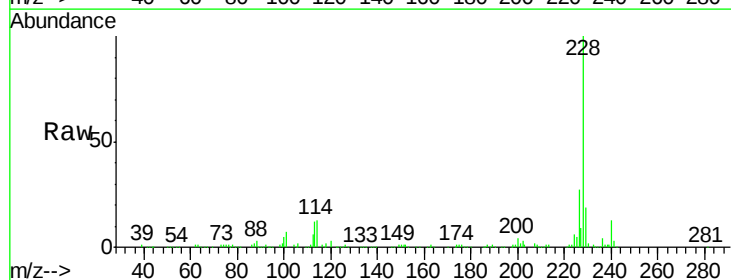
Instrument :
 BNA_F
 ClientSampleId :
 4099-QC-2

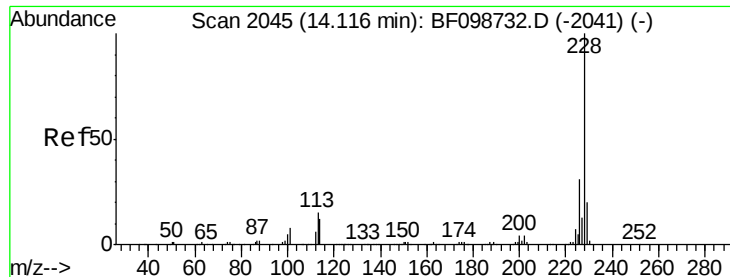
Tgt Ion:244 Resp: 639053
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 13.0 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 13.90 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. 0.01 min
 Lab File: BF099462.D
 Acq: 14 Oct 2017 1:49

Tgt Ion:228 Resp: 139548
 Ion Ratio Lower Upper
 228 100
 226 26.6 22.6 33.8
 229 18.9 15.8 23.6





#82

Chrysene

Concen: 12.77 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

Instrument :

BNA_F

ClientSampleId :

4099-QC-2

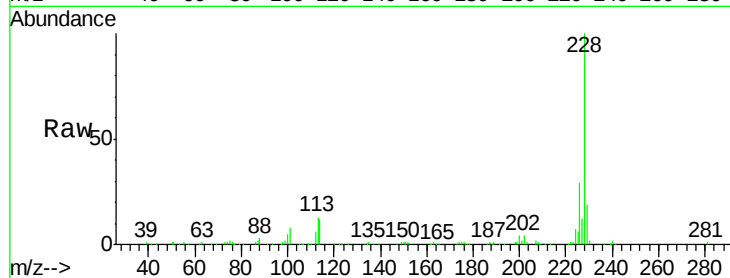
Tgt Ion:228 Resp: 122012

Ion Ratio Lower Upper

228 100

226 29.2 25.0 37.6

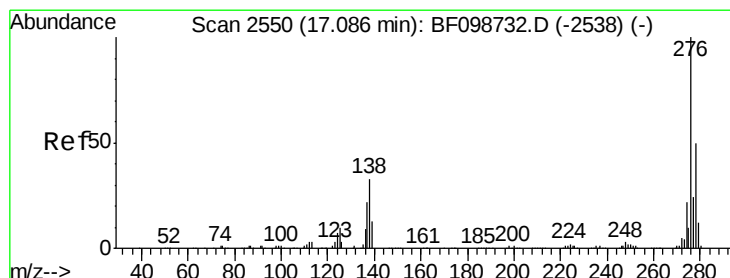
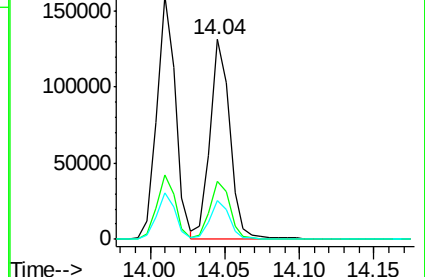
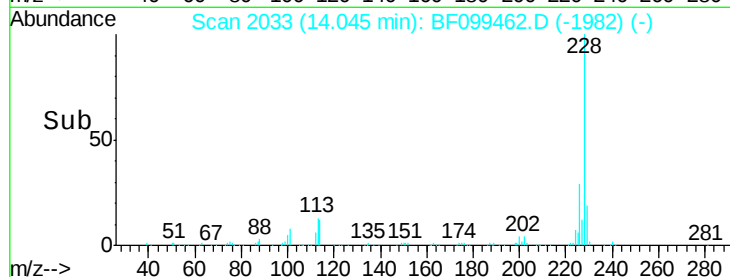
229 19.1 16.2 24.4



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: 23.76 ng

RT: 16.98 min Scan# 2532

Delta R.T. 0.02 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

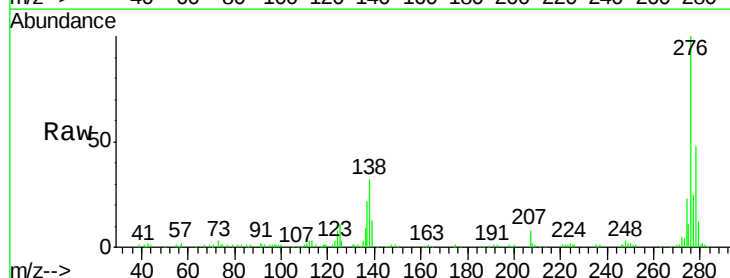
Tgt Ion:276 Resp: 181615

Ion Ratio Lower Upper

276 100

138 33.4 25.0 37.6

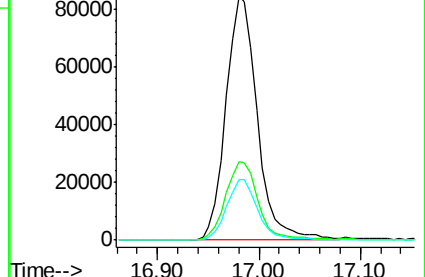
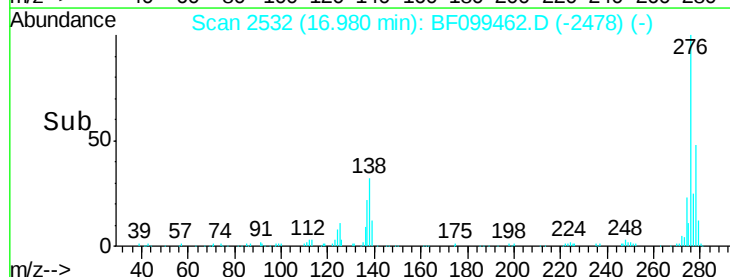
277 24.6 20.1 30.1

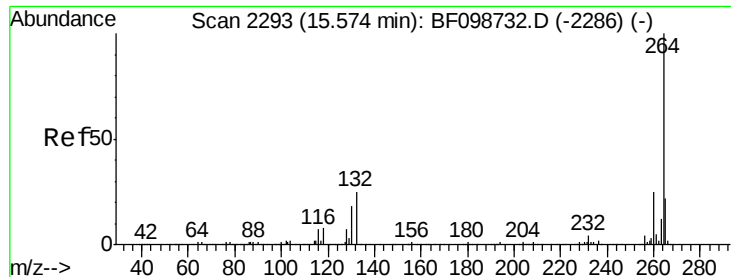


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



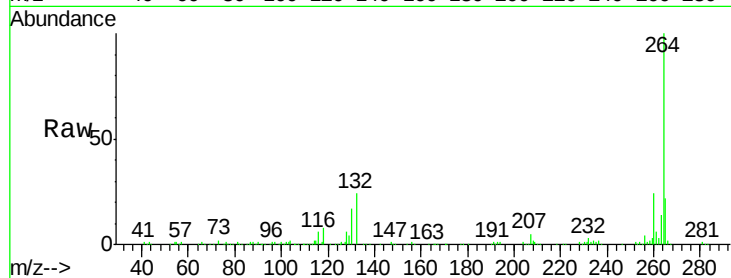


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.02 min
Lab File: BF099462.D
Acq: 14 Oct 2017 1:49

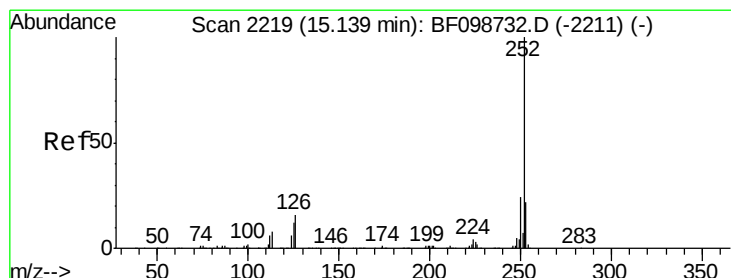
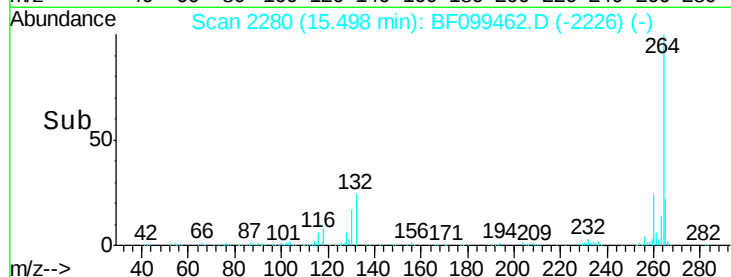
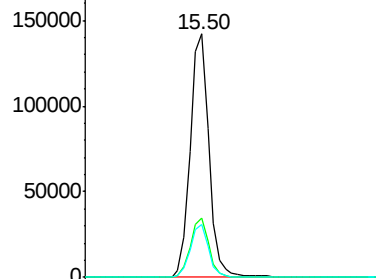
Instrument :
BNA_F
ClientSampleId :
4099-QC-2

Tgt Ion: 264 Resp: 183912

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.8	17.5	26.3



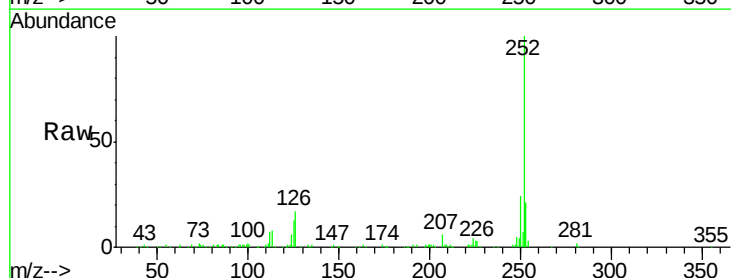
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



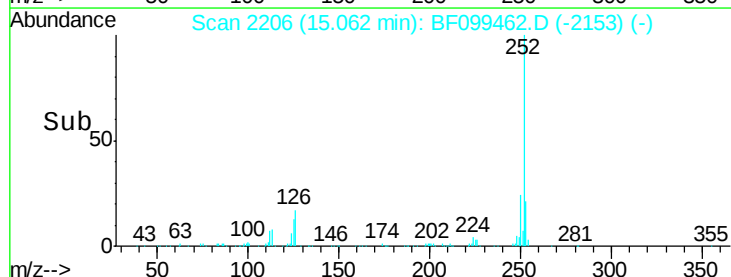
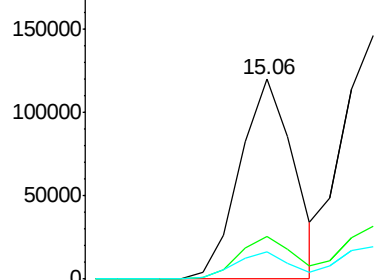
#87
Benzo(b)fluoranthene
Concen: 11.01 ng
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF099462.D
Acq: 14 Oct 2017 1:49

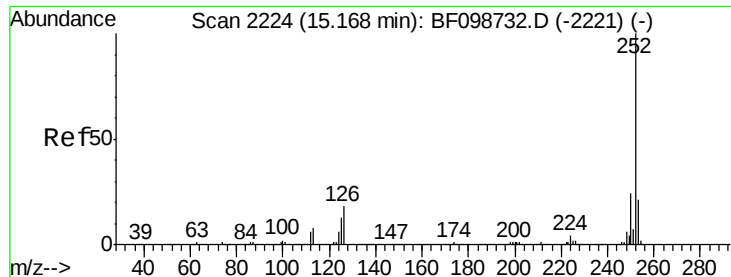
Tgt Ion: 252 Resp: 124516

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.0	25.6
125	13.5	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

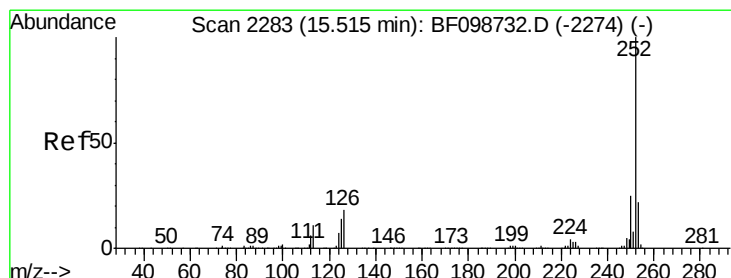
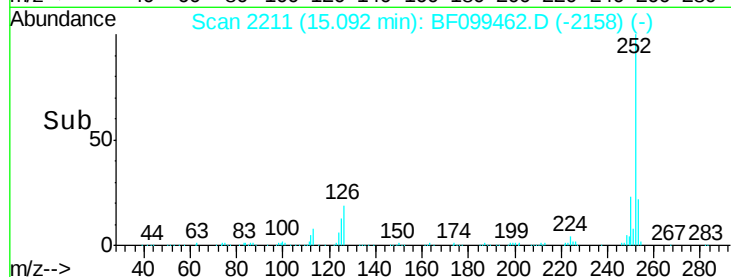
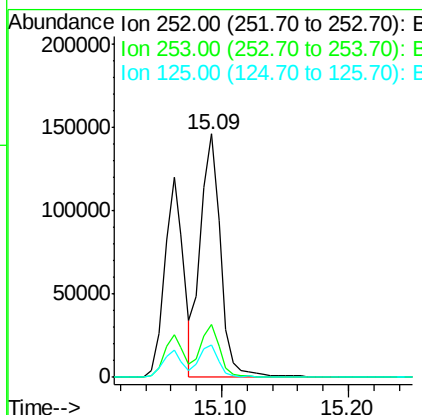
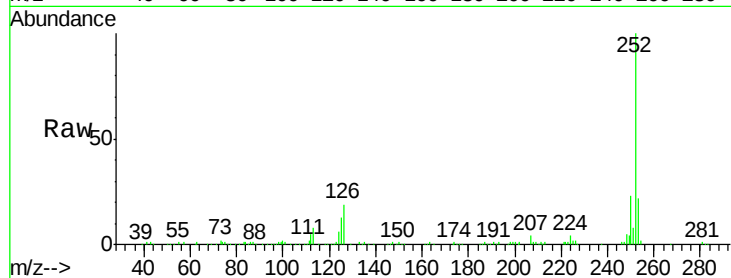




#88
Benzo(k)fluoranthene
Concen: 14.45 ng
RT: 15.09 min Scan# 2211
Delta R.T. 0.01 min
Lab File: BF099462.D
Acq: 14 Oct 2017 1:49

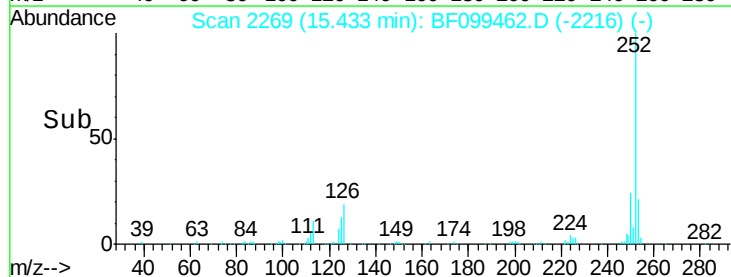
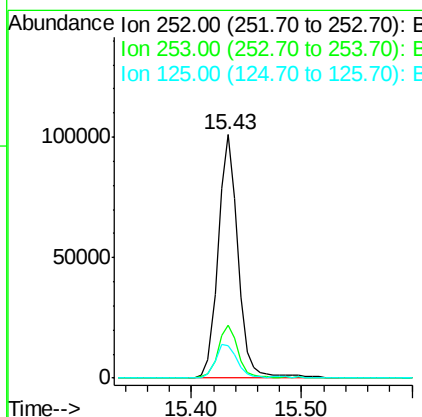
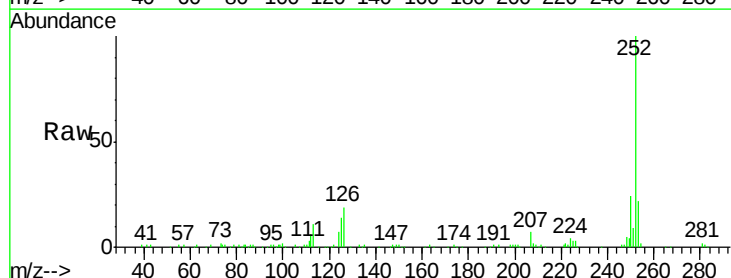
Instrument :
BNA_F
ClientSampleId :
4099-QC-2

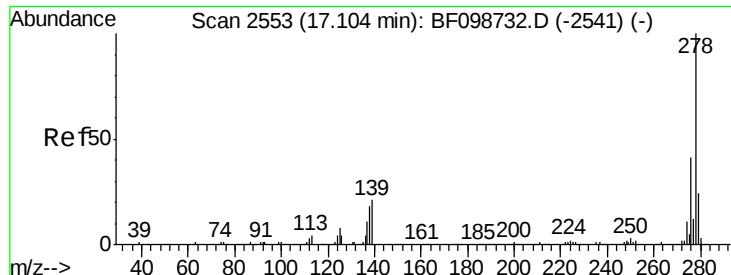
Tgt Ion:252 Resp: 161341
Ion Ratio Lower Upper
252 100
253 21.6 17.9 26.9
125 13.5 10.2 15.2



#89
Benzo(a)pyrene
Concen: 12.22 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.01 min
Lab File: BF099462.D
Acq: 14 Oct 2017 1:49

Tgt Ion:252 Resp: 126789
Ion Ratio Lower Upper
252 100
253 21.6 17.1 25.7
125 13.5 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 13.43 ng

RT: 16.99 min Scan# 2534

Delta R.T. 0.02 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

Instrument :

BNA_F

ClientSampleId :

4099-QC-2

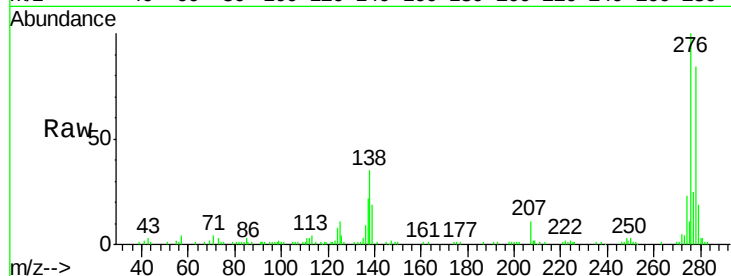
Tgt Ion: 278 Resp: 111553

Ion Ratio Lower Upper

278 100

139 22.5 15.9 23.9

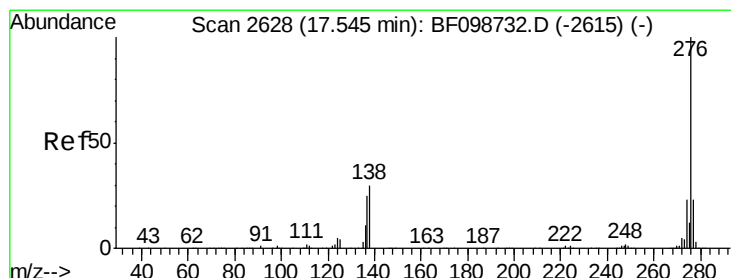
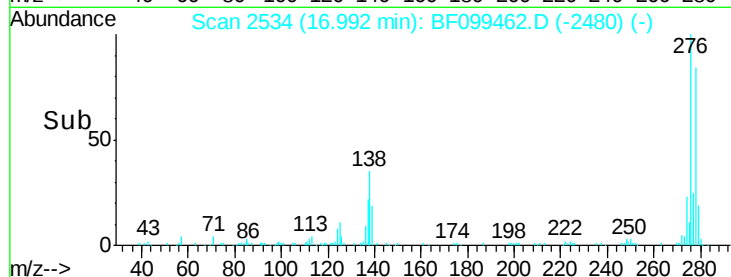
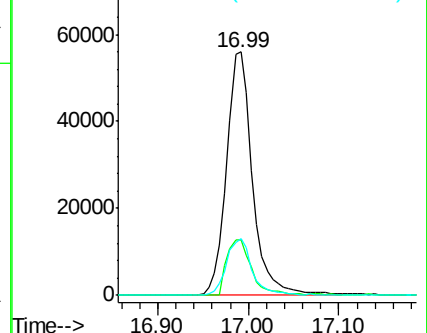
279 23.1 19.0 28.4



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: 9.47 ng

RT: 17.43 min Scan# 2609

Delta R.T. 0.02 min

Lab File: BF099462.D

Acq: 14 Oct 2017 1:49

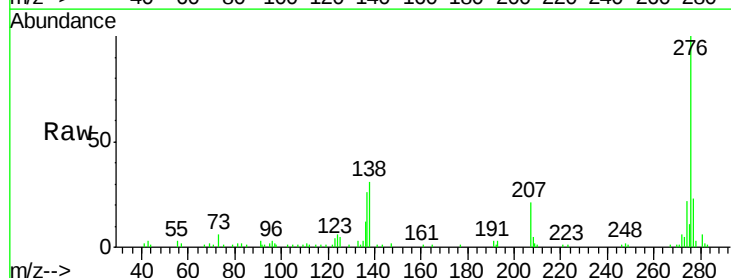
Tgt Ion: 276 Resp: 77751

Ion Ratio Lower Upper

276 100

277 23.5 17.9 26.9

138 30.7 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

