

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032516\
 Data File : BF085791.D
 Acq On : 26 Mar 2016 5:17
 Operator : UM/SJ
 Sample : H1855-02DL 2X
 Misc :
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1

Quant Time: Mar 26 04:39:15 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 24 14:15:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	110219	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	383491	20.00	ng	-0.01
38) Acenaphthene-d10	9.86	164	158407	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	256284	20.00	ng	0.00
75) Chrysene-d12	13.98	240	237492	20.00	ng	0.00
86) Perylene-d12	15.41	264	187967	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	25465	3.85	ng	0.02
7) Phenol-d6	6.47	99	33249	3.95	ng	0.01
23) Nitrobenzene-d5	7.38	82	13925	2.04	ng	-0.01
41) 2,4,6-Tribromophenol	10.65	330	4999	3.32	ng	0.00
44) 2-Fluorobiphenyl	9.19	172	27667	2.92	ng	0.00
78) Terphenyl-d14	12.93	244	23049	2.00	ng	0.00

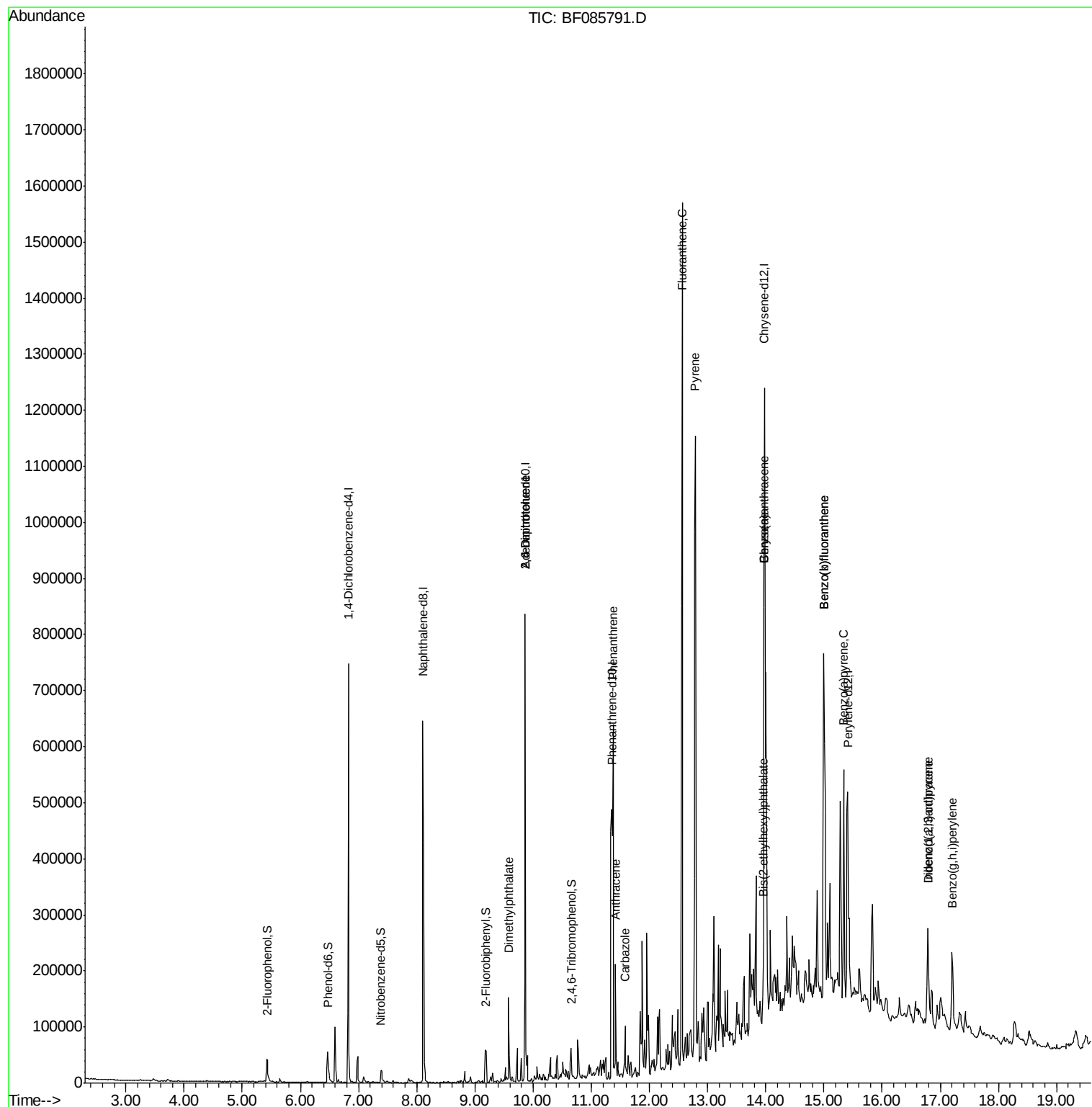
Target Compounds				Qvalue		
37) 2-Methylnaphthalene	8.82	142	5116	Below Cal		99
49) Dimethylphthalate	9.58	163	54139	4.50	ng	98
50) 2,6-Dinitrotoluene	9.86	165	20238	7.82	ng	# 18
56) 2,4-Dinitrotoluene	9.86	165	20238	6.16	ng	# 36
70) Phenanthrene	11.37	178	309889	23.55	ng	98
71) Anthracene	11.42	178	78712	5.70	ng	97
72) Carbazole	11.58	167	32283	2.78	ng	99
74) Fluoranthene	12.56	202	719860	51.47	ng	92
77) Pyrene	12.79	202	642025	32.89	ng	100
80) Benzo(a)anthracene	13.97	228	333905	24.66	ng	97
82) Chrysene	13.97	228	333905	24.48	ng	98
83) Bis(2-ethylhexyl)phthalate	13.96	149	23663	2.42	ng	99
85) Indeno(1,2,3-cd)pyrene	16.79	276	119190	11.32	ng	# 93
87) Benzo(b)fluoranthene	15.00	252	453915	38.33	ng	99
88) Benzo(k)fluoranthene	15.00	252	453915	42.52	ng	# 96
89) Benzo(a)pyrene	15.34	252	217980	20.73	ng	96
90) Dibenzo(a,h)anthracene	16.79	278	25672	2.63	ng	# 90
91) Benzo(g,h,i)perylene	17.20	276	108291	10.95	ng	98

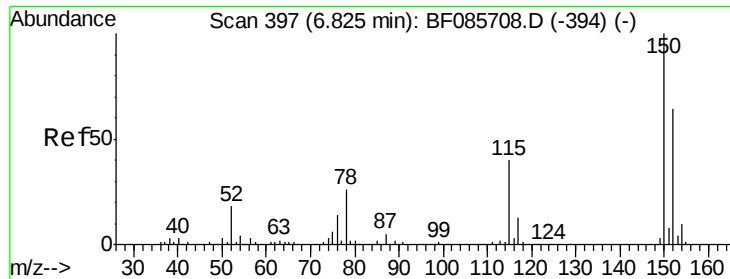
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 397

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Instrument :

BNA_F

ClientSampleId :

SB-1

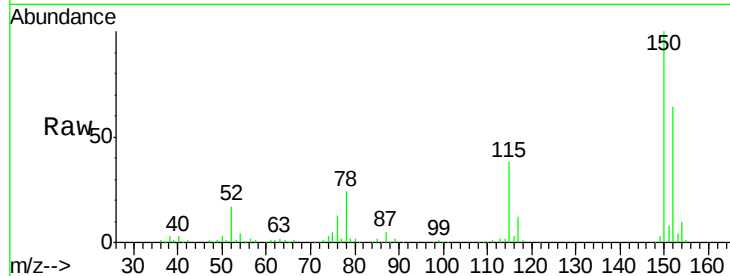
Tgt Ion:152 Resp: 110219

Ion Ratio Lower Upper

152 100

150 156.5 124.2 186.2

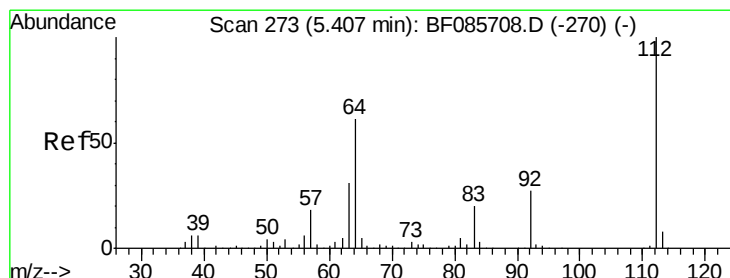
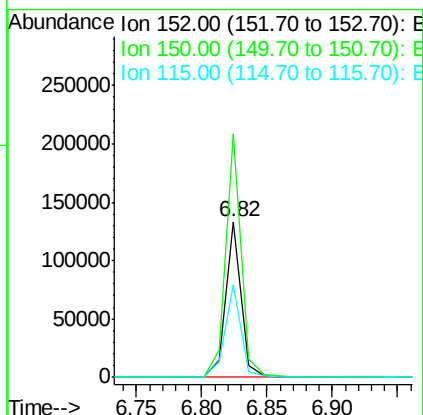
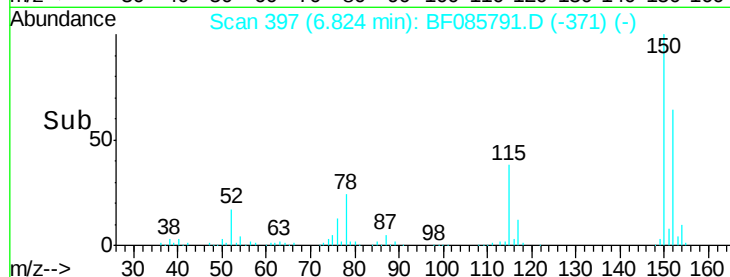
115 59.6 47.0 70.6



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: 3.85 ng

RT: 5.43 min Scan# 275

Delta R.T. 0.02 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

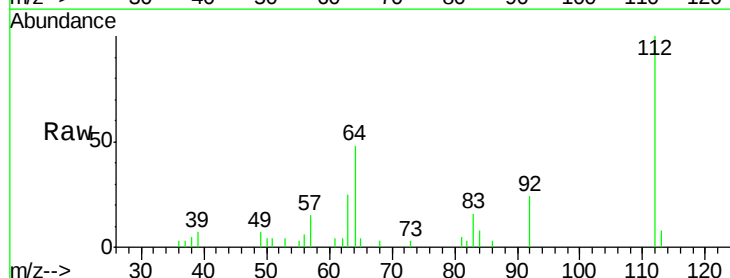
Tgt Ion:112 Resp: 25465

Ion Ratio Lower Upper

112 100

64 48.5 39.9 59.9

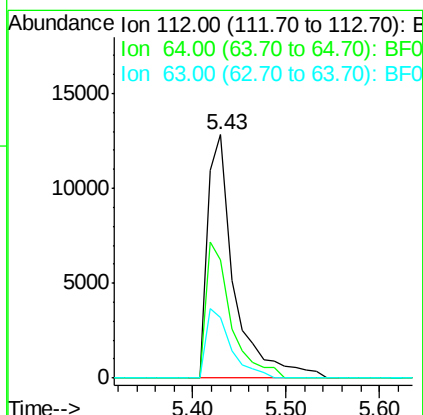
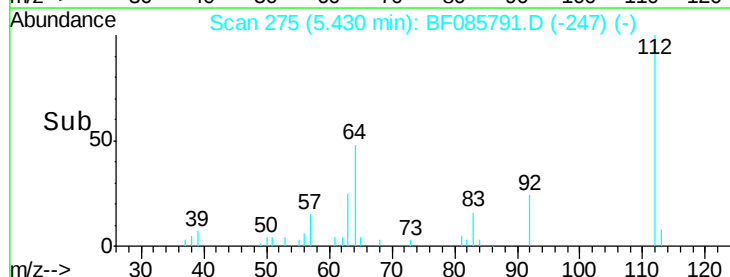
63 24.7 20.2 30.2

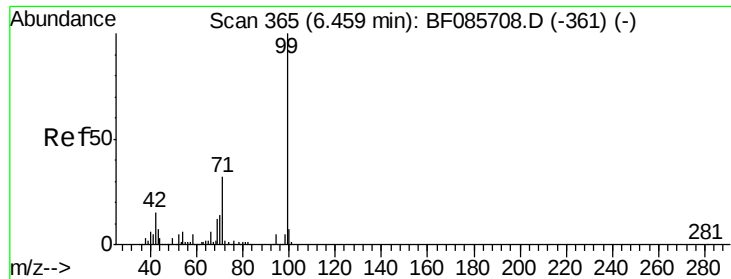


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 3.95 ng

RT: 6.47 min Scan# 366

Delta R.T. 0.01 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Instrument :

BNA_F

ClientSampleId :

SB-1

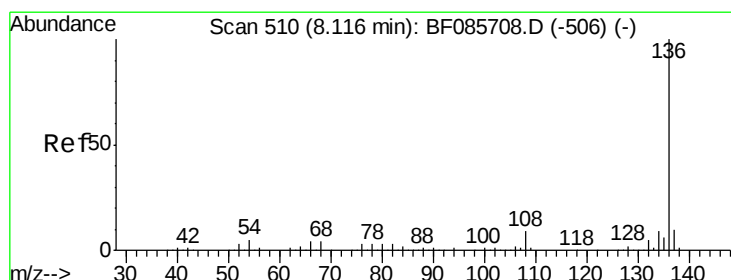
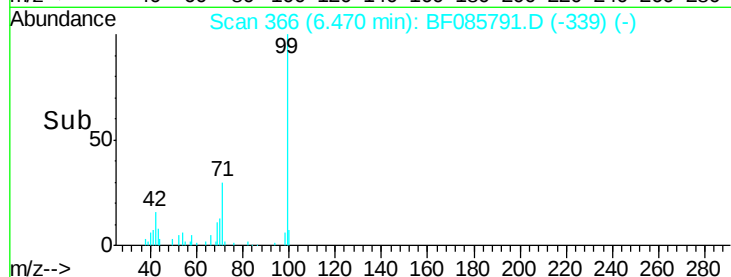
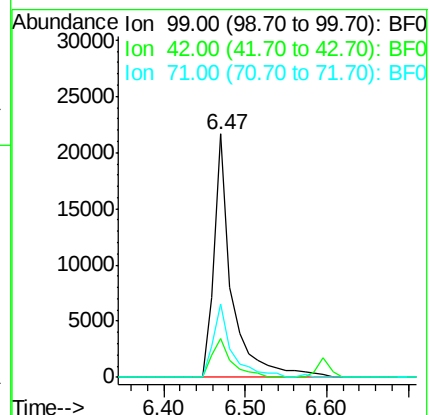
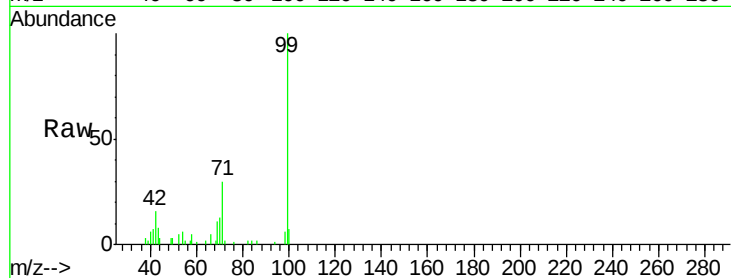
Tgt Ion: 99 Resp: 33249

Ion Ratio Lower Upper

99 100

42 16.1 11.1 16.7

71 30.0 24.9 37.3



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 509

Delta R.T. -0.01 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Tgt Ion: 136 Resp: 383491

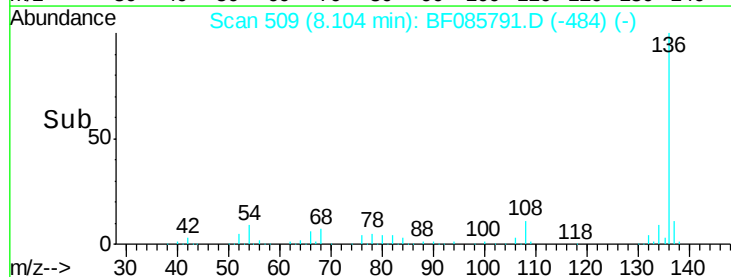
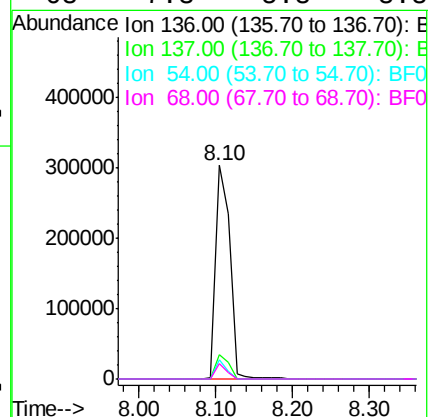
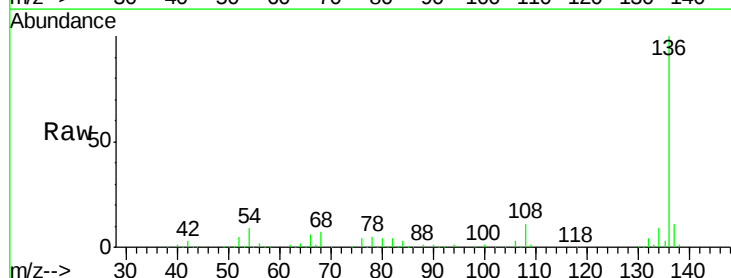
Ion Ratio Lower Upper

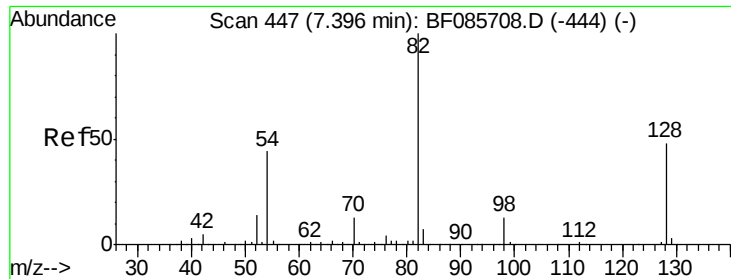
136 100

137 11.2 9.1 13.7

54 9.3 7.4 11.0

68 7.3 5.8 8.8

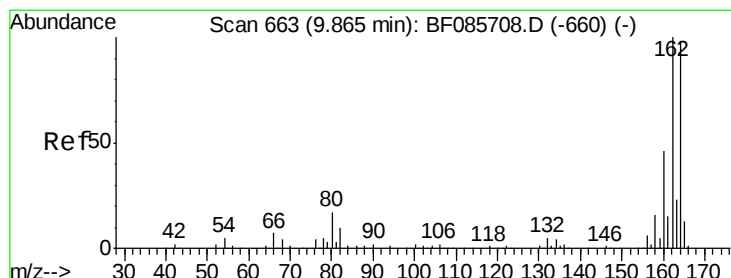
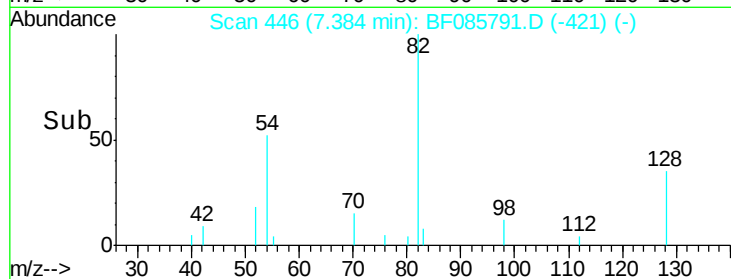
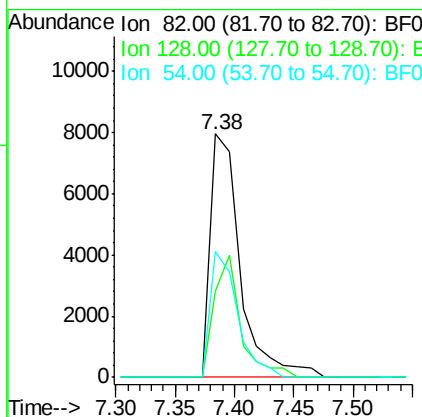
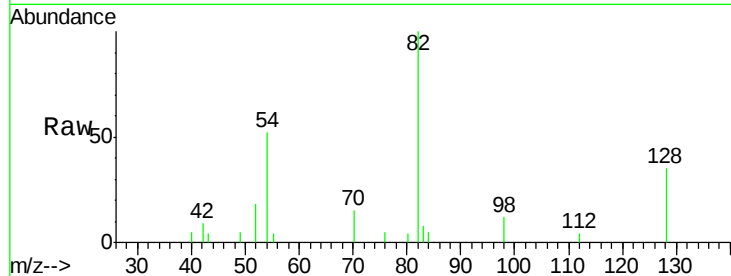




#23
 Nitrobenzene-d5
 Concen: 2.04 ng
 RT: 7.38 min Scan# 446
 Delta R.T. -0.01 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

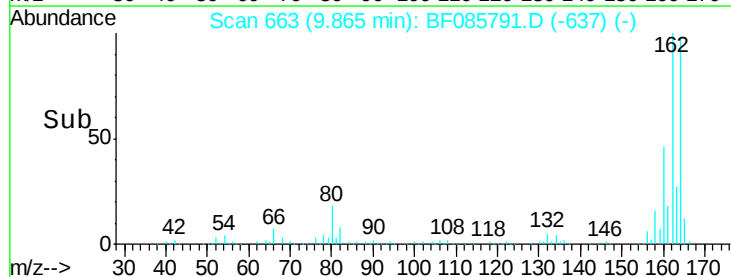
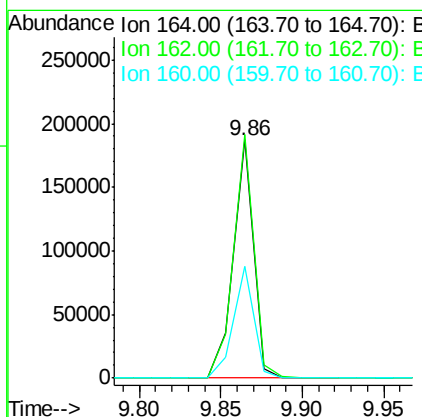
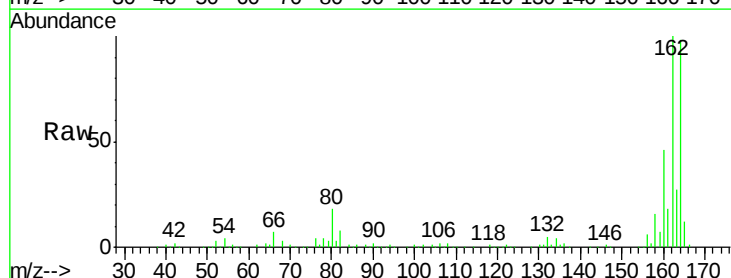
Instrument :
 BNA_F
 ClientSampleId :
 SB-1

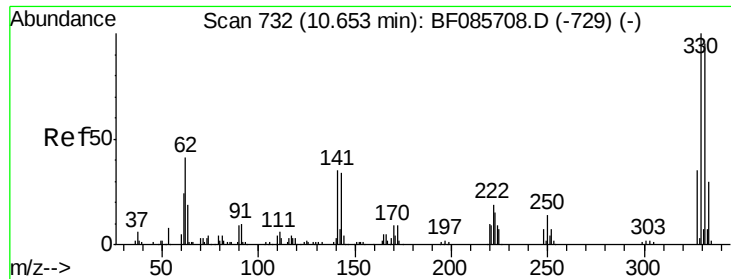
Tgt Ion: 82 Resp: 13925
 Ion Ratio Lower Upper
 82 100
 128 35.3 41.8 62.8#
 54 51.9 33.4 50.0#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.86 min Scan# 663
 Delta R.T. -0.00 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

Tgt Ion: 164 Resp: 158407
 Ion Ratio Lower Upper
 164 100
 162 102.3 82.1 123.1
 160 47.0 37.4 56.2

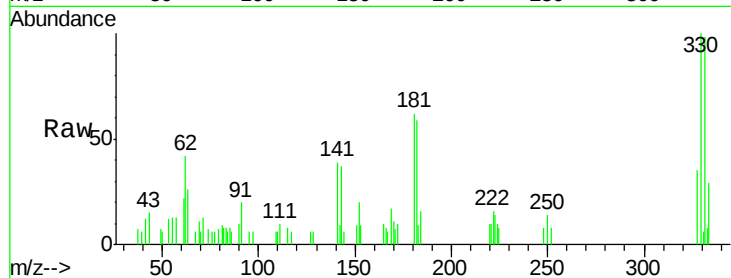




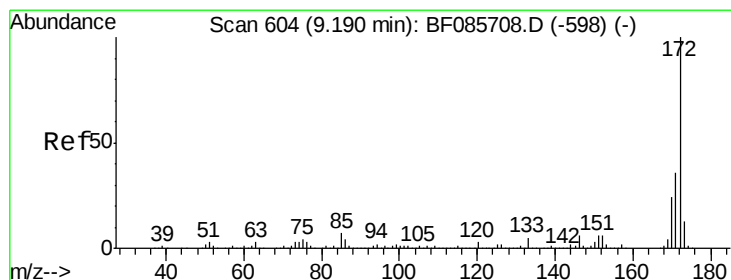
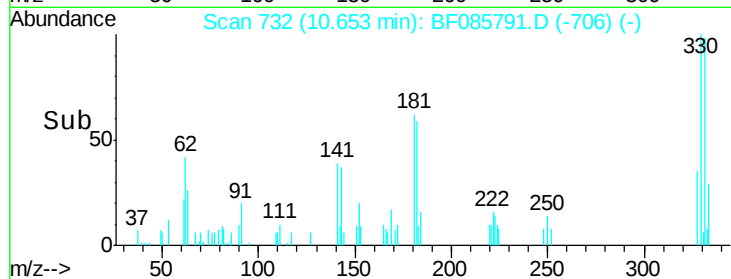
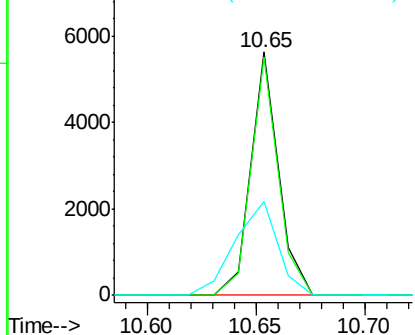
#41
 2,4,6-Tribromophenol
 Concen: 3.32 ng
 RT: 10.65 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-1

Tgt Ion:330 Resp: 4999
 Ion Ratio Lower Upper
 330 100
 332 96.3 78.2 117.2
 141 59.9 31.5 47.3#

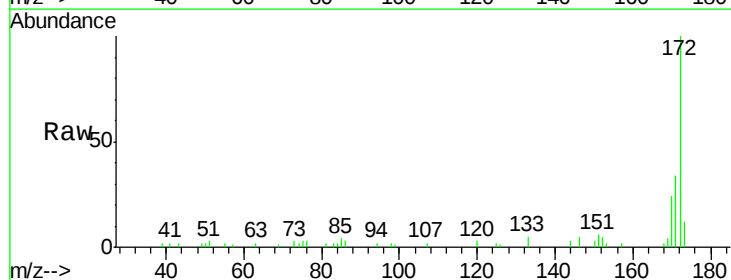


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

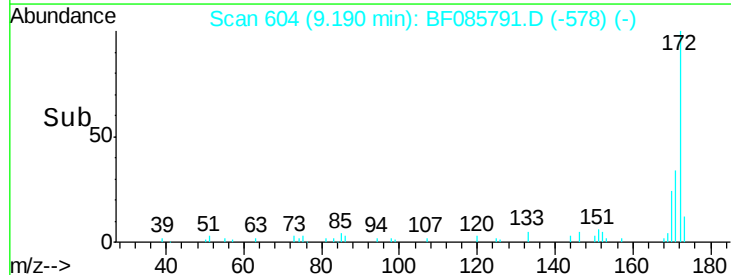
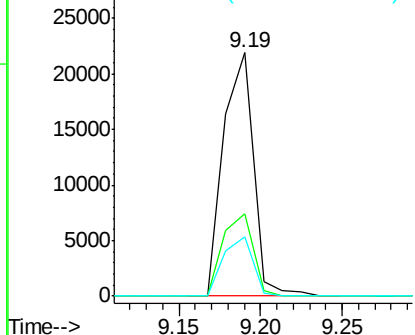


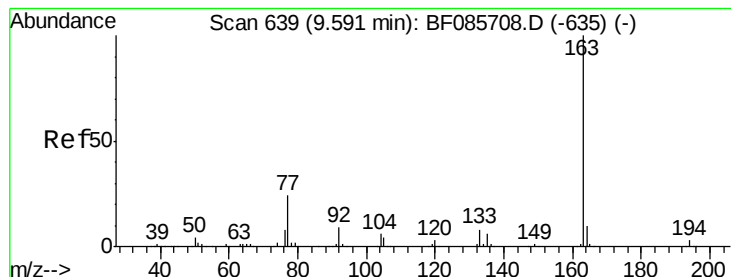
#44
 2-Fluorobiphenyl
 Concen: 2.92 ng
 RT: 9.19 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

Tgt Ion:172 Resp: 27667
 Ion Ratio Lower Upper
 172 100
 171 33.9 29.4 44.2
 170 24.4 19.8 29.6



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





#49

Dimethylphthalate

Concen: 4.50 ng

RT: 9.58 min Scan# 638

Delta R.T. -0.01 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Instrument :

BNA_F

ClientSampled :

SB-1

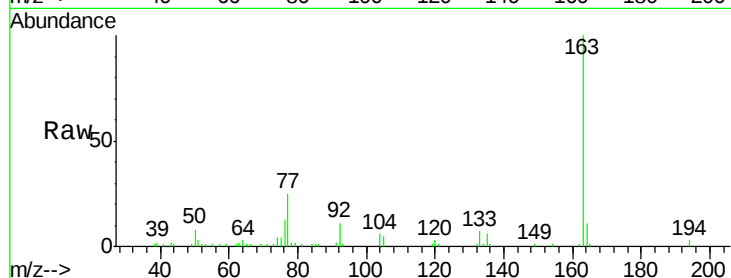
Tgt Ion:163 Resp: 54139

Ion Ratio Lower Upper

163 100

194 2.9 2.9 4.3

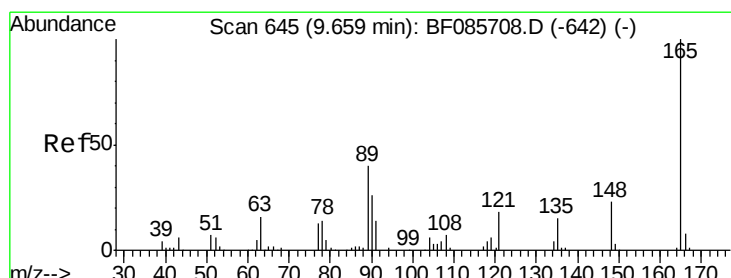
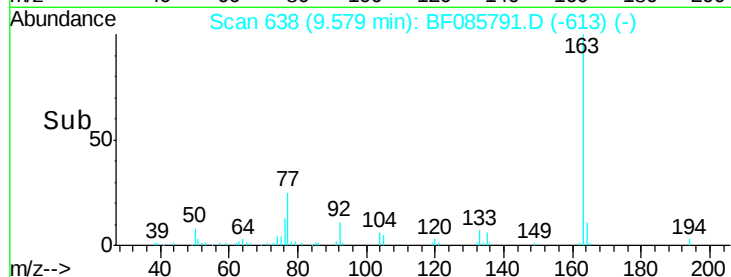
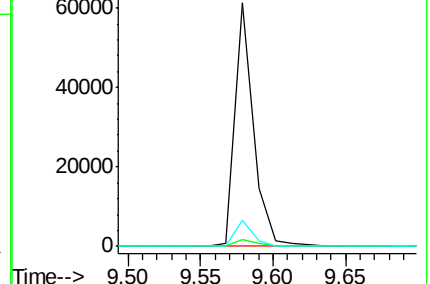
164 10.9 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 7.82 ng

RT: 9.86 min Scan# 663

Delta R.T. 0.21 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

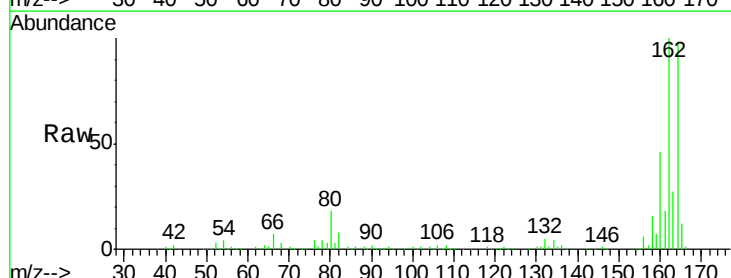
Tgt Ion:165 Resp: 20238

Ion Ratio Lower Upper

165 100

63 0.0 51.8 77.8#

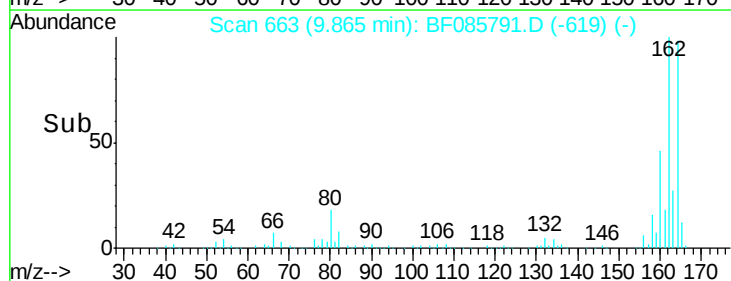
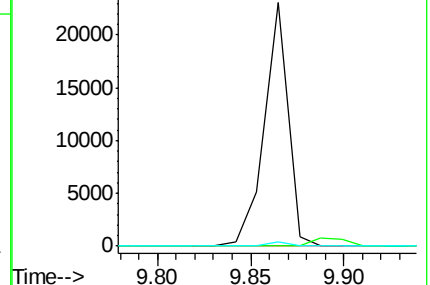
89 1.6 53.7 80.5#

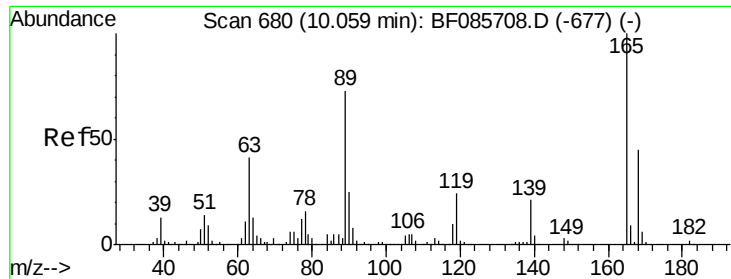


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

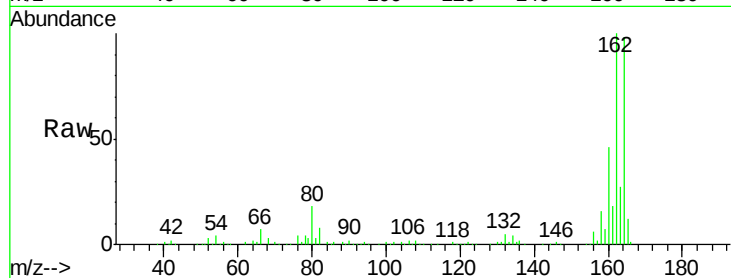




#56
 2,4-Dinitrotoluene
 Concen: 6.16 ng
 RT: 9.86 min Scan# 663
 Delta R.T. -0.19 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-1

Tgt Ion:	165	Resp:	20238
Ion Ratio	Lower	Upper	
165	100		
63	0.0	24.9	37.3#
89	1.6	41.0	61.6#
182	0.0	2.1	3.1#

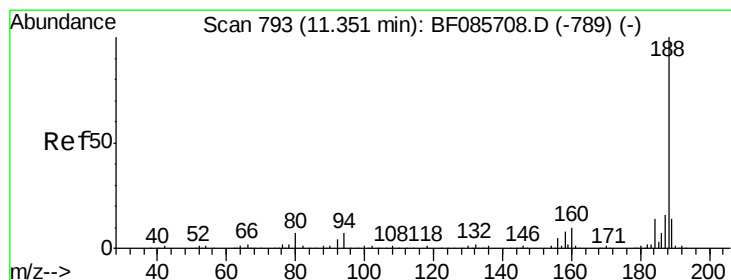
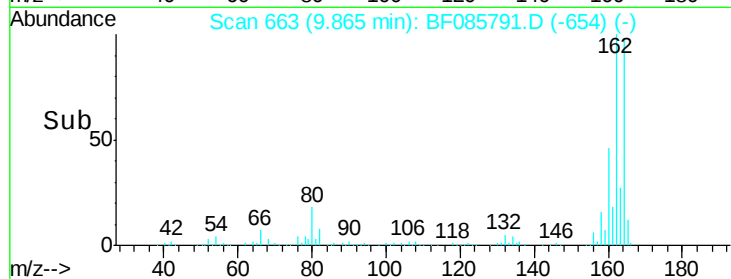
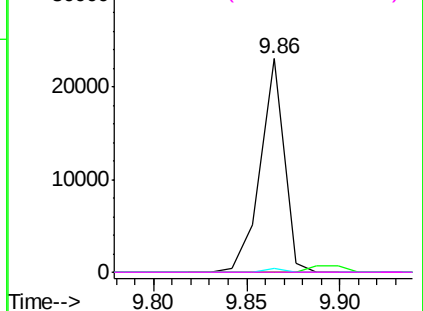


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

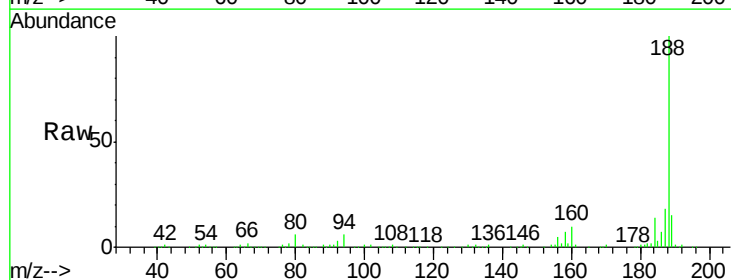
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.35 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

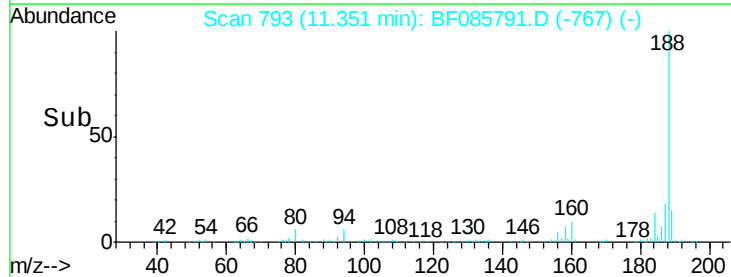
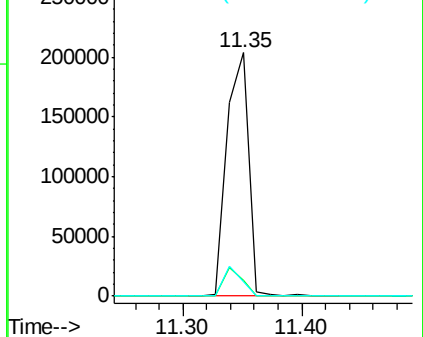
Tgt Ion:	188	Resp:	256284
Ion Ratio	Lower	Upper	
188	100		
94	6.2	5.4	8.0
80	6.1	5.5	8.3

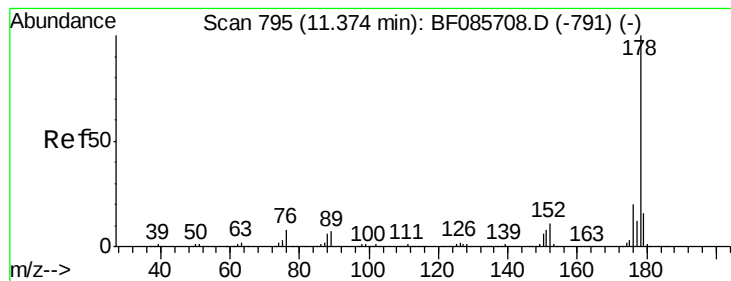


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 23.55 ng

RT: 11.37 min Scan# 795

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

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SB-1

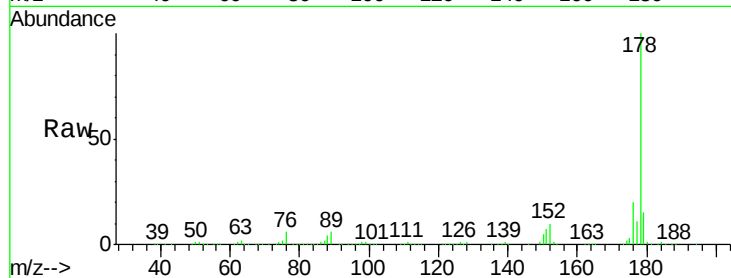
Tgt Ion:178 Resp: 309889

Ion Ratio Lower Upper

178 100

176 19.6 16.3 24.5

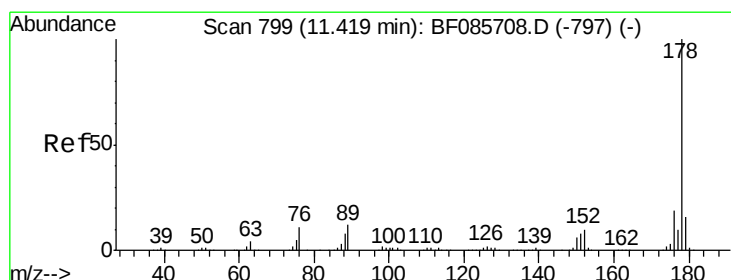
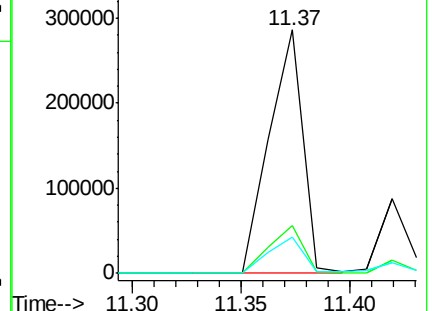
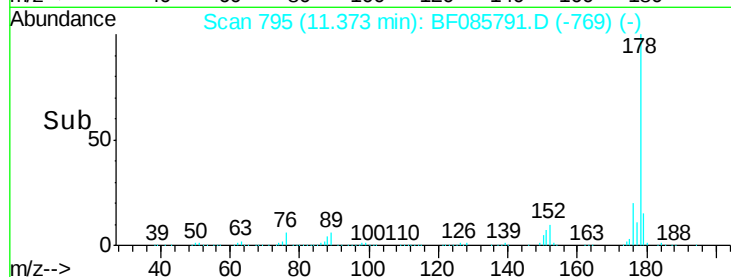
179 14.9 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 5.70 ng

RT: 11.42 min Scan# 799

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

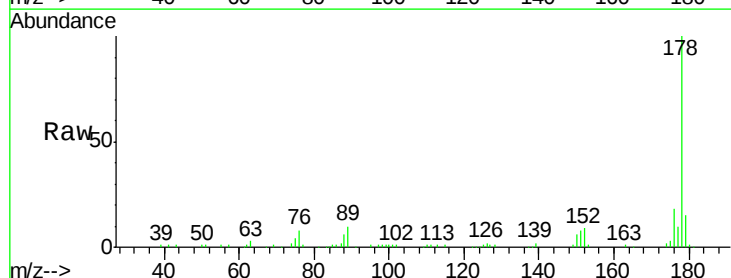
Tgt Ion:178 Resp: 78712

Ion Ratio Lower Upper

178 100

176 18.5 15.9 23.9

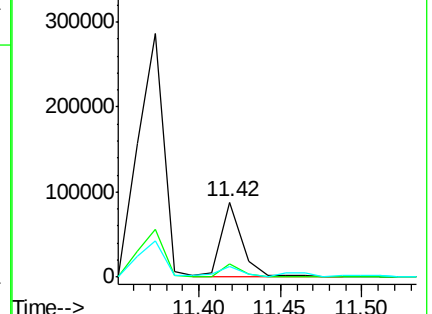
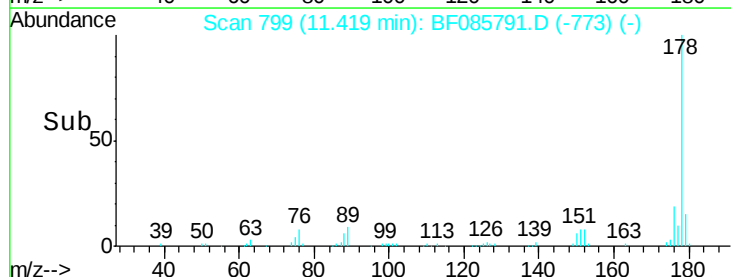
179 14.9 13.0 19.4

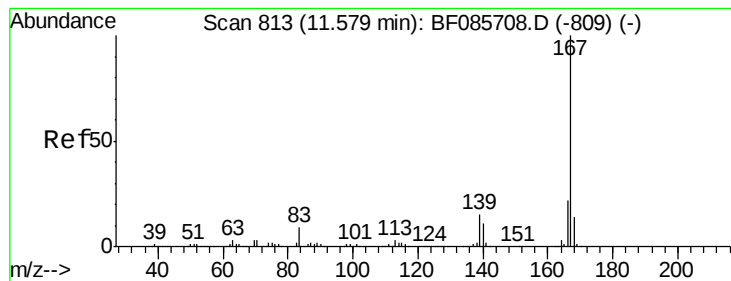


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.78 ng

RT: 11.58 min Scan# 813

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Instrument :

BNA_F

ClientSampleId :

SB-1

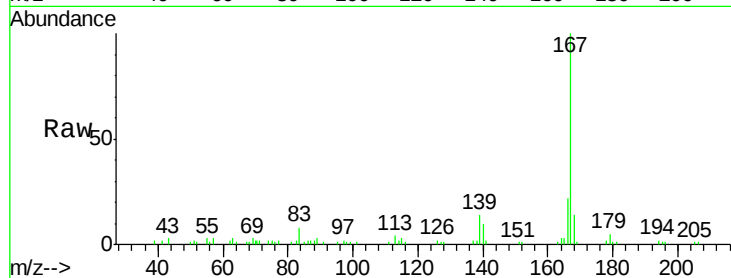
Tgt Ion:167 Resp: 32283

Ion Ratio Lower Upper

167 100

166 21.8 17.8 26.8

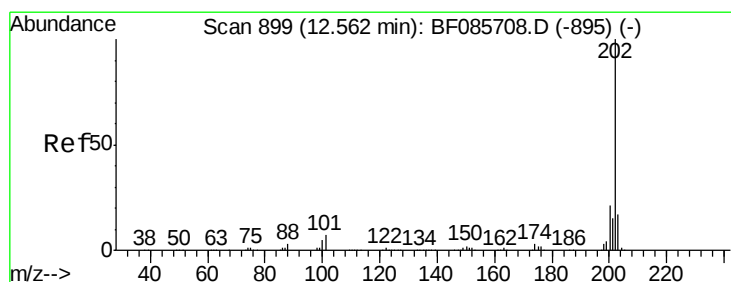
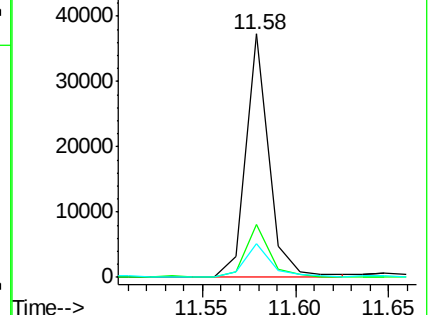
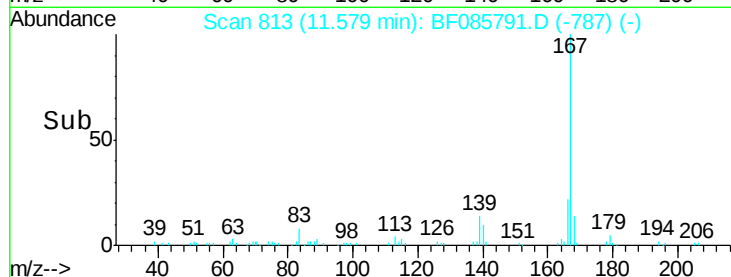
139 14.1 11.6 17.4



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: 51.47 ng

RT: 12.56 min Scan# 899

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

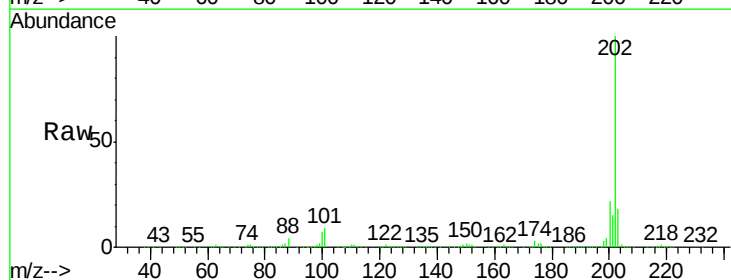
Tgt Ion:202 Resp: 719860

Ion Ratio Lower Upper

202 100

101 9.1 0.0 36.6

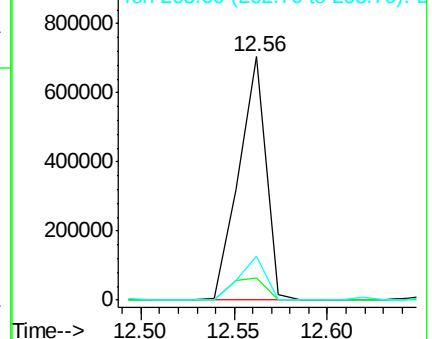
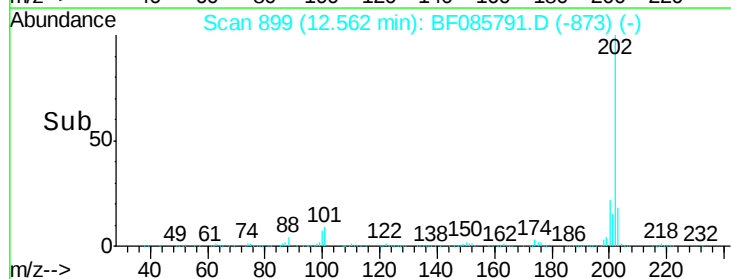
203 18.0 0.0 38.1

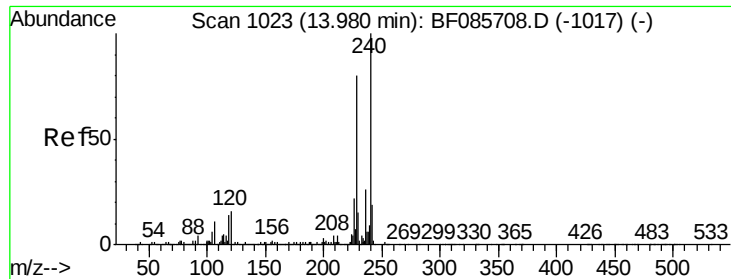


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.98 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Instrument :

BNA_F

ClientSampleId :

SB-1

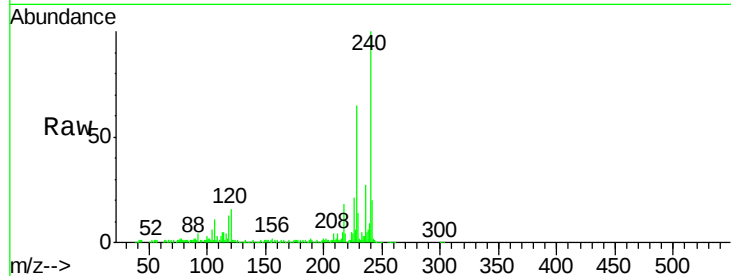
Tgt Ion:240 Resp: 237492

Ion Ratio Lower Upper

240 100

120 16.0 13.8 20.8

236 26.7 20.6 30.8



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

300000

250000

200000

150000

100000

50000

0

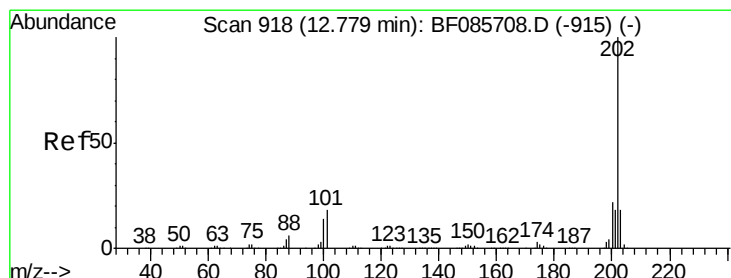
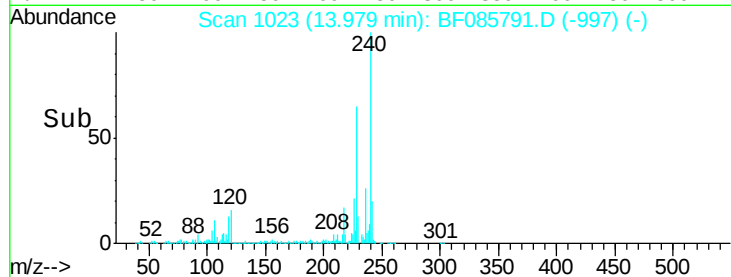
13.98

13.90

14.00

14.10

Time-->



#77

Pyrene

Concen: 32.89 ng

RT: 12.79 min Scan# 919

Delta R.T. 0.01 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

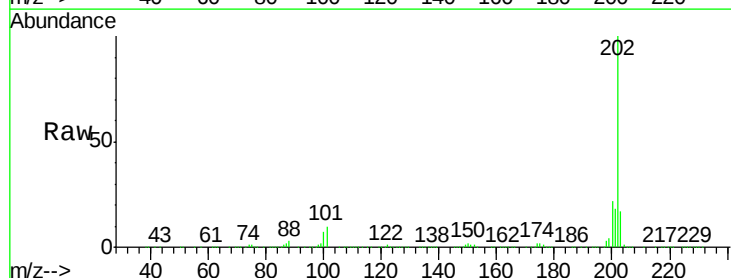
Tgt Ion:202 Resp: 642025

Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

203 17.4 14.0 21.0



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

600000

400000

200000

0

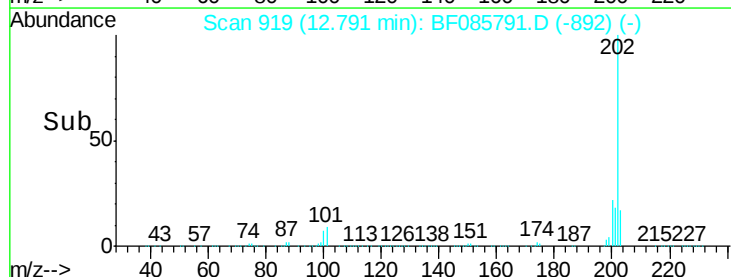
12.79

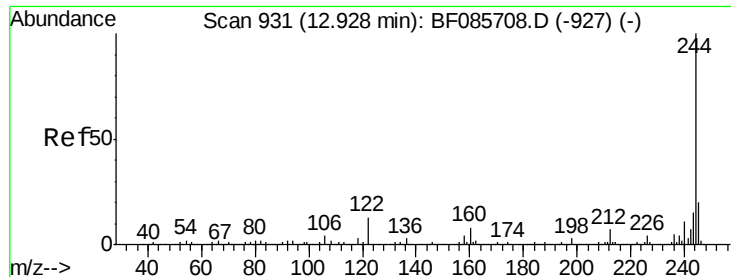
12.70

12.80

12.90

Time-->

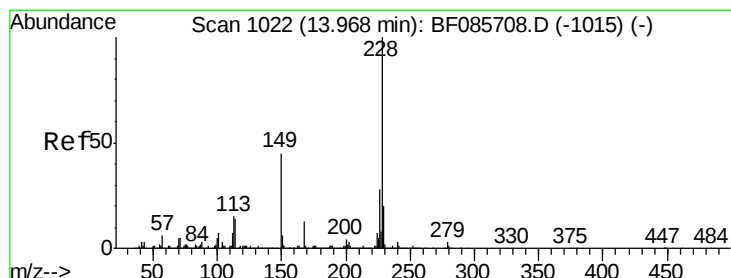
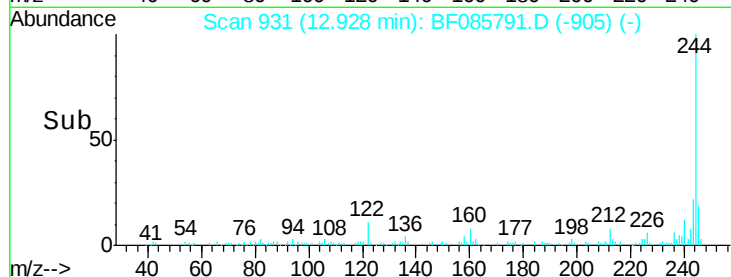
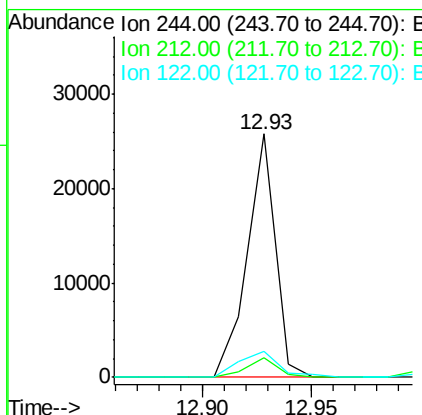
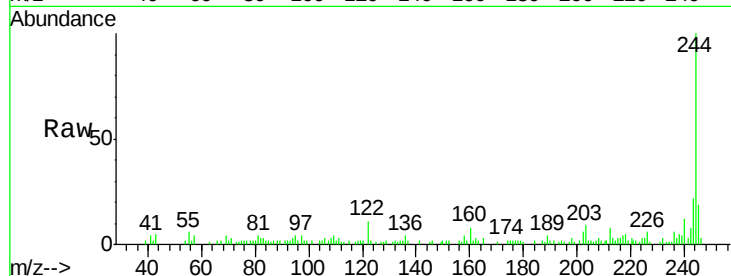




#78
 Terphenyl-d14
 Concen: 2.00 ng
 RT: 12.93 min Scan# 931
 Delta R.T. -0.00 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

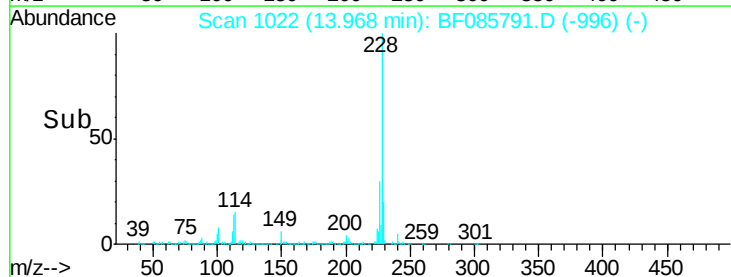
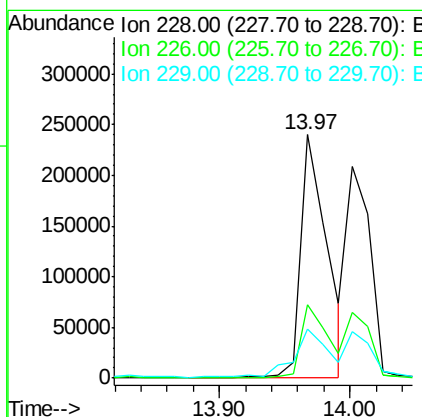
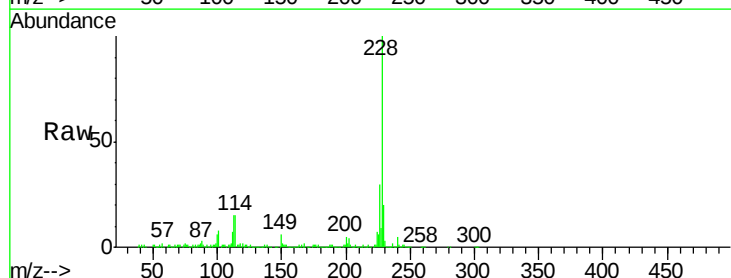
Instrument :
 BNA_F
 ClientSampleId :
 SB-1

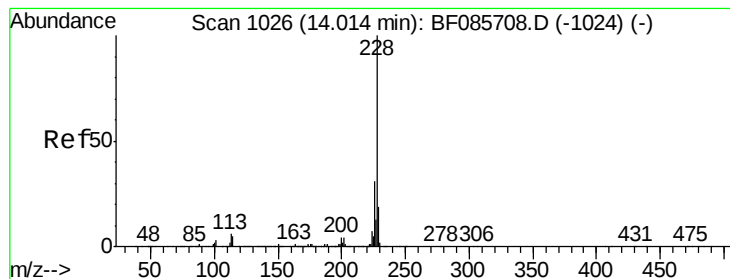
Tgt Ion:244 Resp: 23049
 Ion Ratio Lower Upper
 244 100
 212 7.9 6.1 9.1
 122 10.5 10.2 15.4



#80
 Benzo(a)anthracene
 Concen: 24.66 ng
 RT: 13.97 min Scan# 1022
 Delta R.T. -0.00 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

Tgt Ion:228 Resp: 333905
 Ion Ratio Lower Upper
 228 100
 226 30.0 22.1 33.1
 229 20.2 16.2 24.4





#82

Chrysene

Concen: 24.48 ng

RT: 13.97 min Scan# 1022

Delta R.T. -0.05 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Instrument :

BNA_F

ClientSampleId :

SB-1

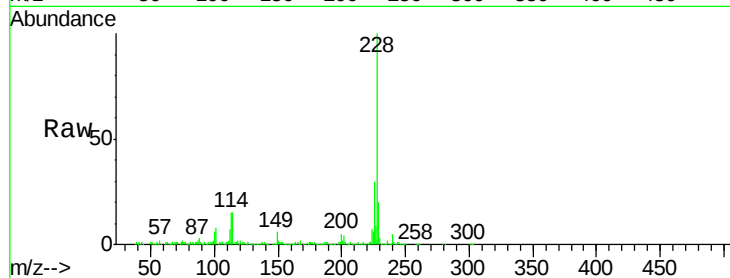
Tgt Ion: 228 Resp: 333905

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.6

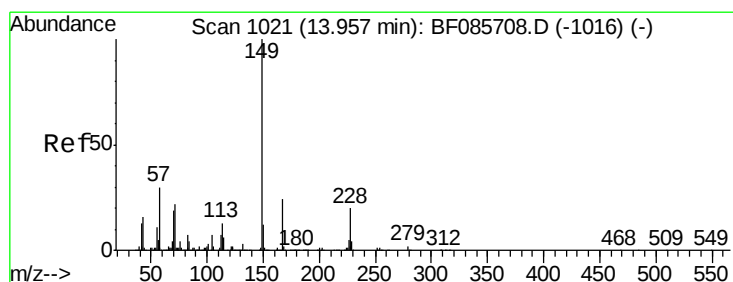
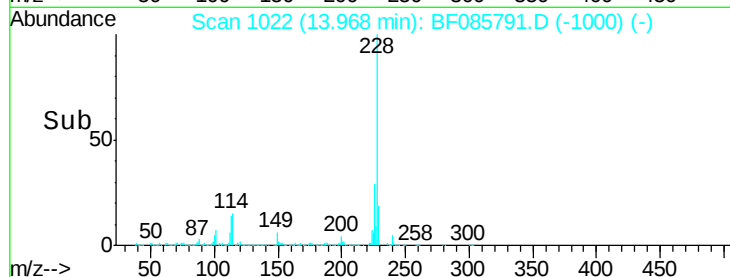
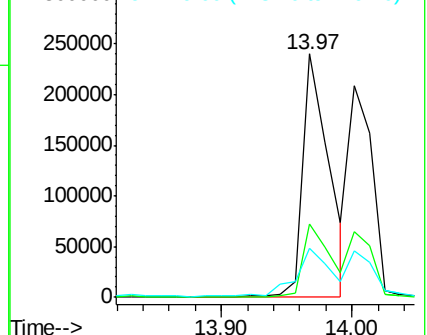
229 20.2 15.7 23.5



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.42 ng

RT: 13.96 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

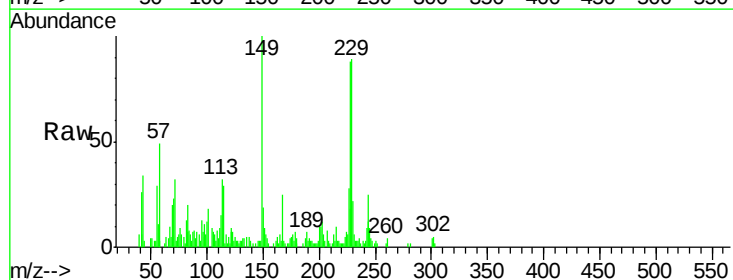
Tgt Ion: 149 Resp: 23663

Ion Ratio Lower Upper

149 100

167 25.0 19.4 29.2

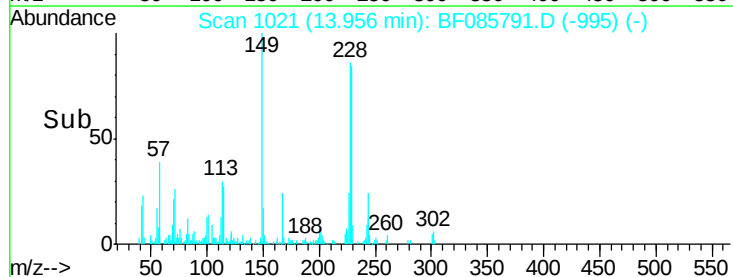
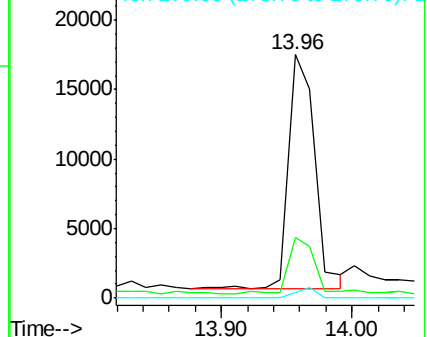
279 2.3 1.5 2.3

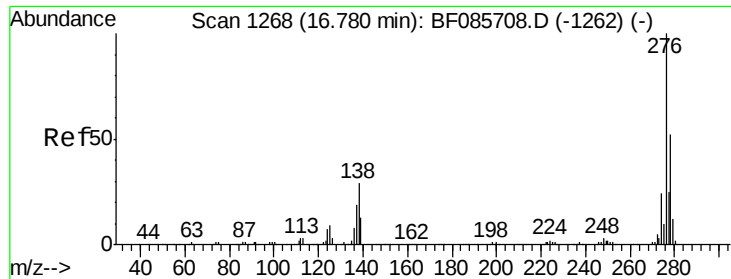


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

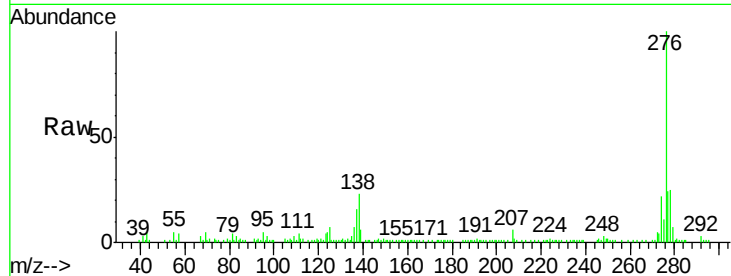




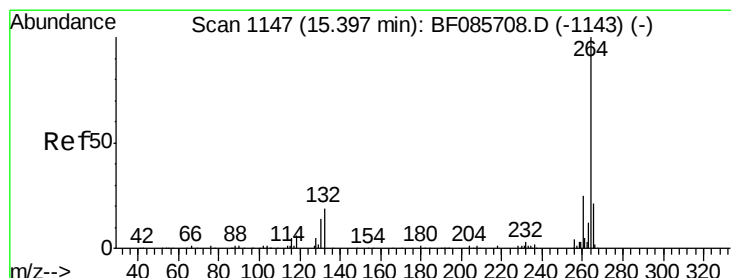
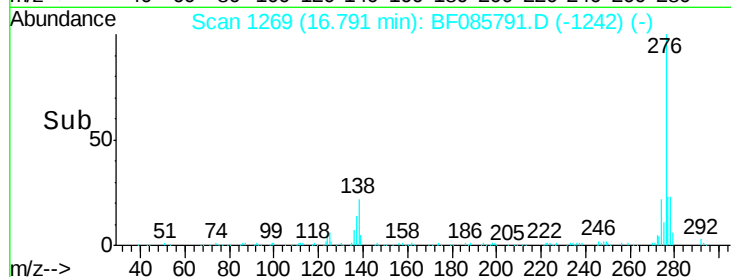
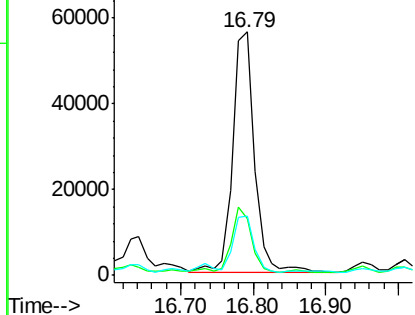
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.32 ng
 RT: 16.79 min Scan# 1269
 Delta R.T. 0.01 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-1

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.2	24.2	36.4#
277	25.7	20.0	30.0

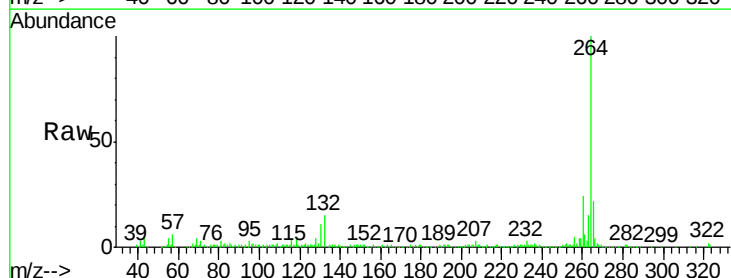


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

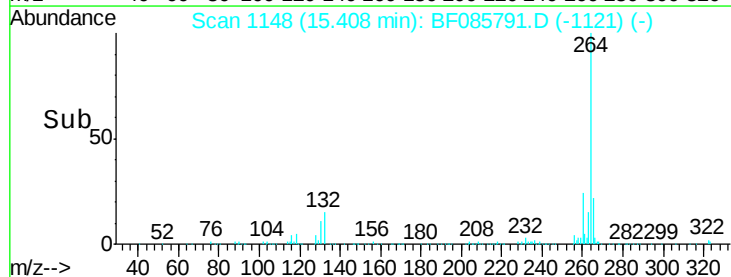
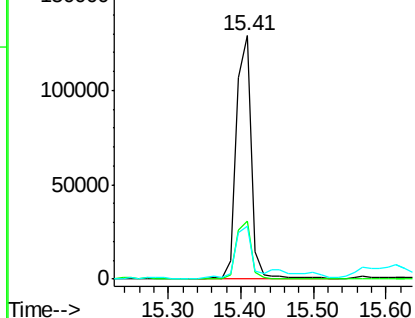


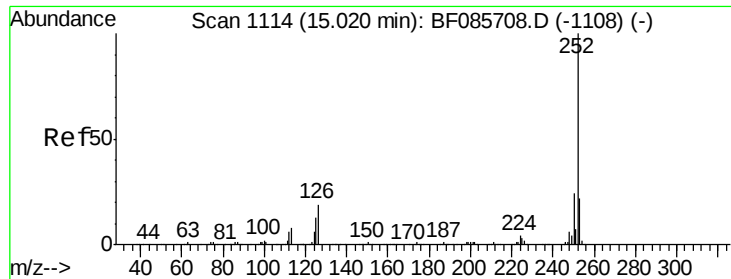
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.41 min Scan# 1148
 Delta R.T. 0.01 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	22.0	17.2	25.8



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: 38.33 ng

RT: 15.00 min Scan# 1112

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Instrument :

BNA_F

ClientSampleId :

SB-1

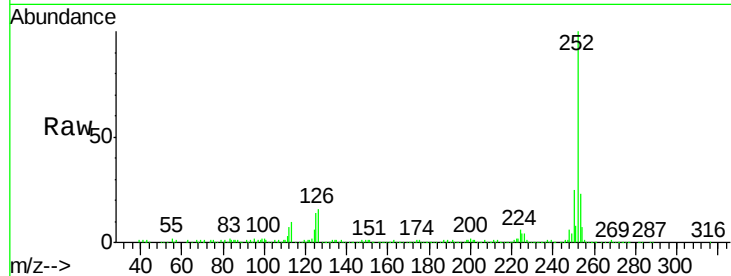
Tgt Ion:252 Resp: 453915

Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

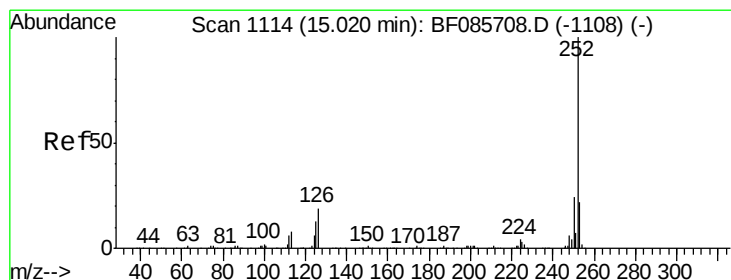
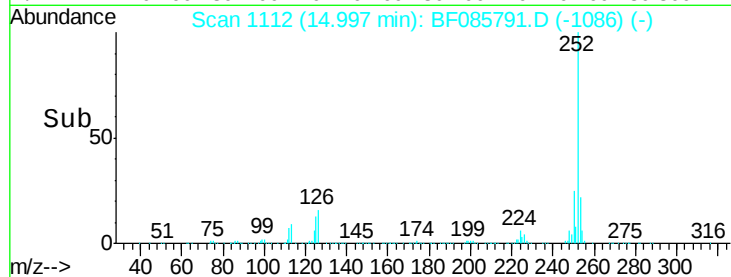
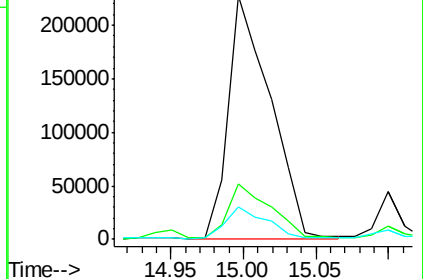
125 13.5 10.3 15.5



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: 42.52 ng

RT: 15.00 min Scan# 1112

Delta R.T. -0.02 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

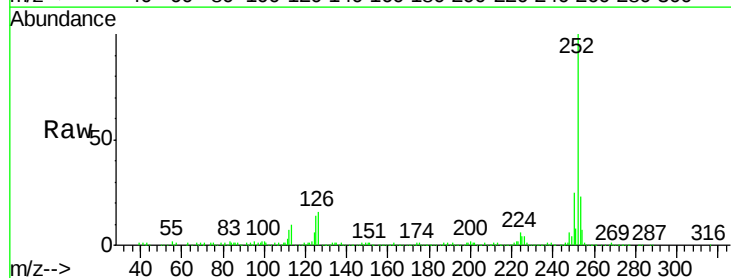
Tgt Ion:252 Resp: 453915

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.6

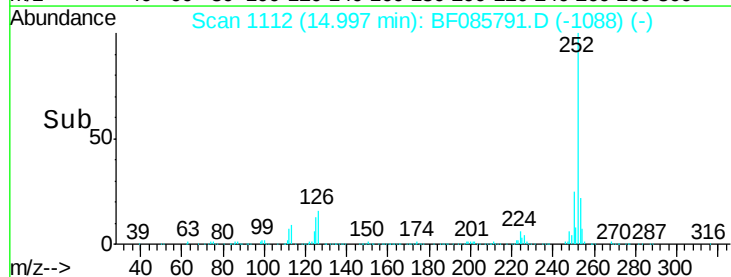
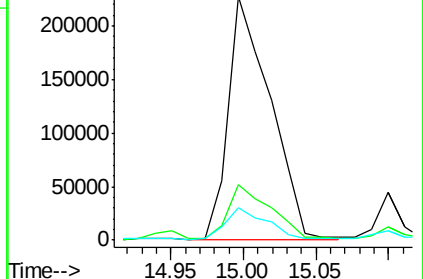
125 13.5 7.7 11.5#

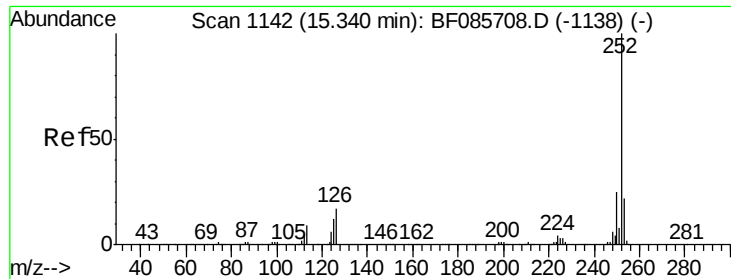


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 20.73 ng

RT: 15.34 min Scan# 1142

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

Instrument :

BNA_F

ClientSampleId :

SB-1

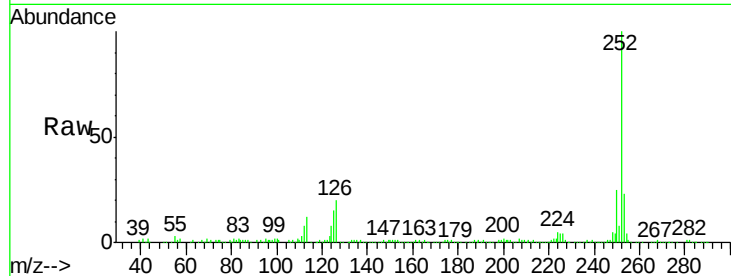
Tgt Ion:252 Resp: 217980

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.0

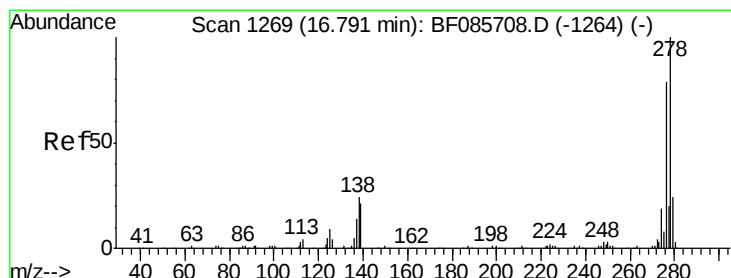
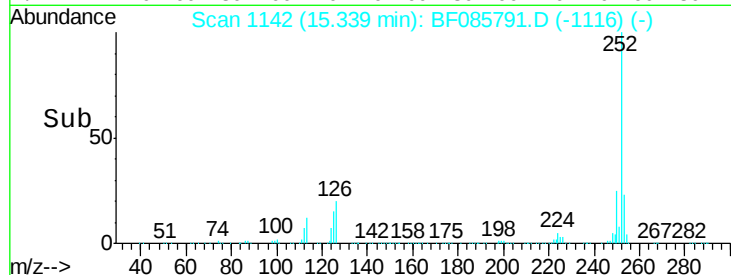
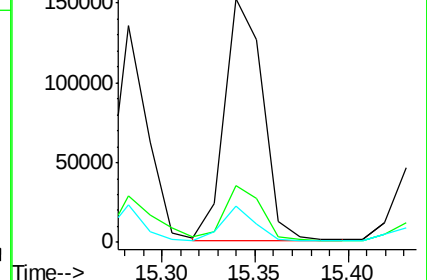
125 15.1 10.3 15.5



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



#90

Dibenzo(a,h)anthracene

Concen: 2.63 ng

RT: 16.79 min Scan# 1269

Delta R.T. -0.00 min

Lab File: BF085791.D

Acq: 26 Mar 2016 5:17

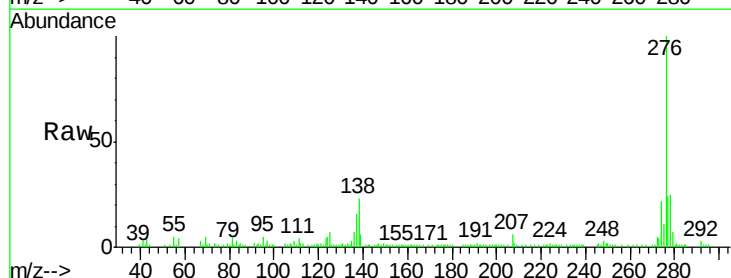
Tgt Ion:278 Resp: 25672

Ion Ratio Lower Upper

278 100

139 22.6 14.4 21.6#

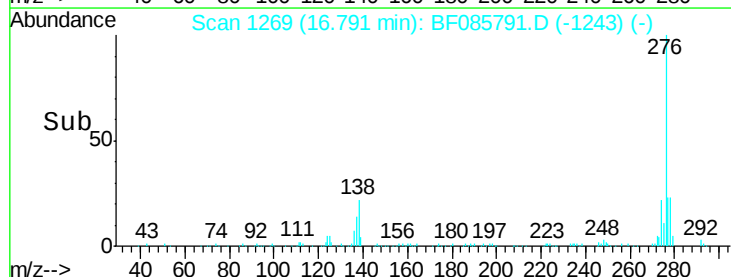
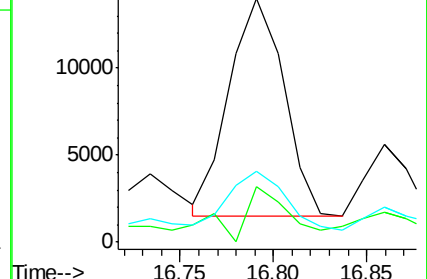
279 29.1 19.1 28.7#

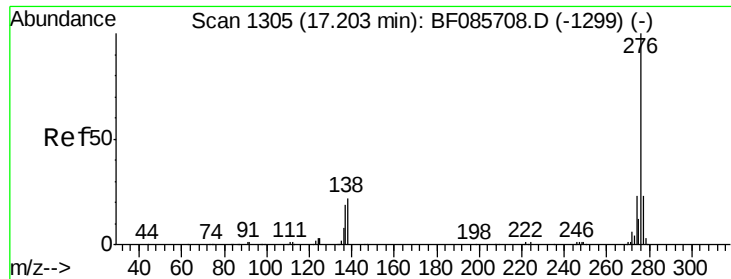


Abundance Ion 278.00 (277.70 to 278.70): E

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: 10.95 ng
 RT: 17.20 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: BF085791.D
 Acq: 26 Mar 2016 5:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-1

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.8	28.2
138	26.2	22.6	34.0

