

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062516\
 Data File : BF088403.D
 Acq On : 26 Jun 2016 6:02
 Operator : UM/SJ
 Sample : H3598-16DL 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1393(0-4)DL

Quant Time: Jun 26 06:37:50 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 14:55:14 2016
 Response via : Initial Calibration

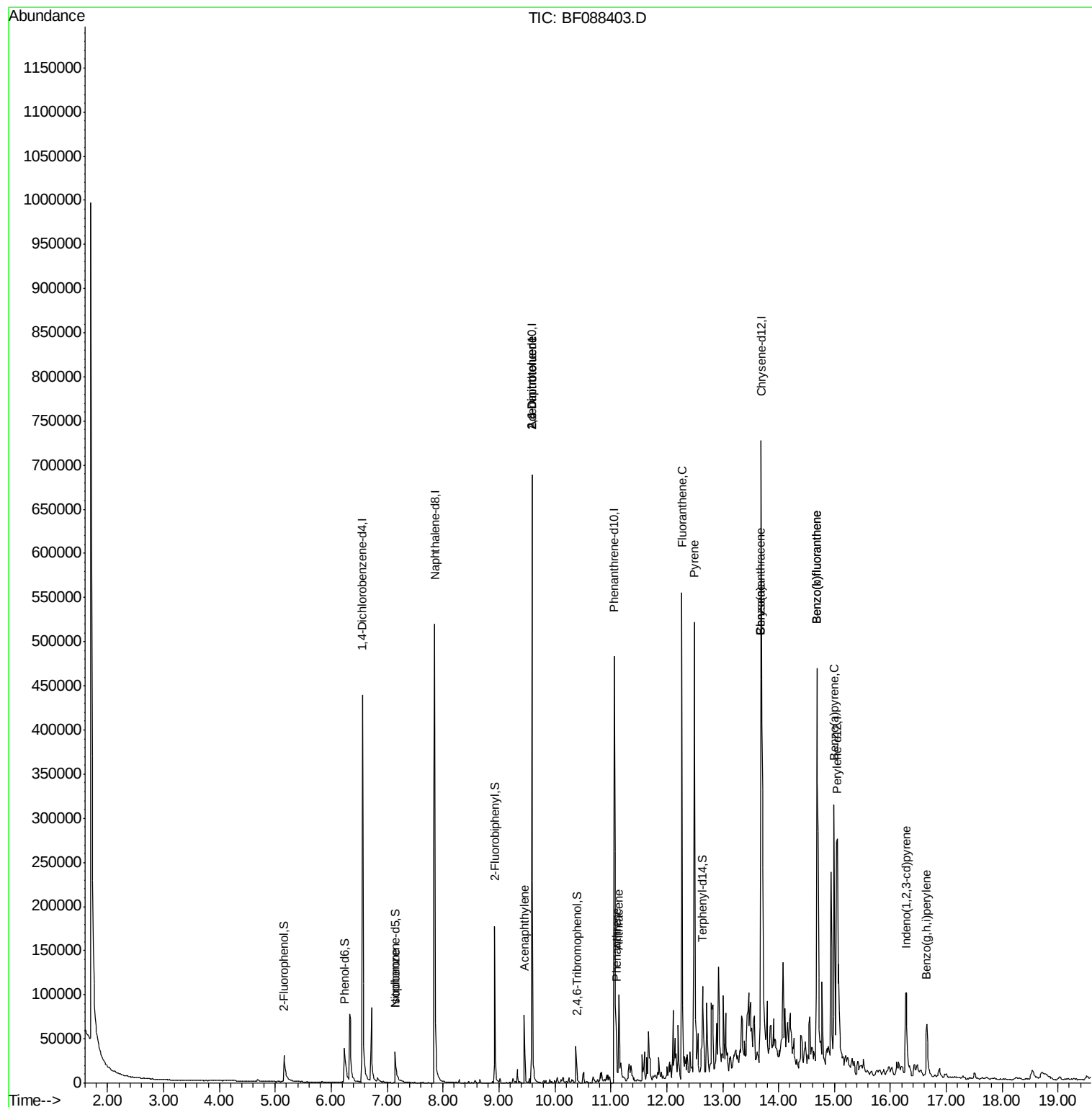
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.56	152	89040	20.00	ng	-0.05
21) Naphthalene-d8	7.85	136	354810	20.00	ng	-0.05
38) Acenaphthene-d10	9.59	164	152876	20.00	ng	-0.06
63) Phenanthrene-d10	11.06	188	243393	20.00	ng	-0.06
75) Chrysene-d12	13.69	240	187301	20.00	ng	-0.06
86) Perylene-d12	15.05	264	155021	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	34042	6.54	ng	-0.02
7) Phenol-d6	6.24	99	53136	8.42	ng	-0.02
23) Nitrobenzene-d5	7.14	82	32936	5.42	ng	-0.03
41) 2,4,6-Tribromophenol	10.39	330	7842	4.86	ng	-0.05
44) 2-Fluorobiphenyl	8.92	172	72736	2.07	ng	-0.05
78) Terphenyl-d14	12.64	244	41829	5.08	ng	-0.06
Target Compounds						
25) Isophorone	7.14	82	33883	3.01	ng	# 65
45) 1,1'-Biphenyl	9.03	154	220	Below Cal	#	43
48) Acenaphthylene	9.45	152	46495	2.95	ng	100
50) 2,6-Dinitrotoluene	9.59	165	18894	7.45	ng	# 38
56) 2,4-Dinitrotoluene	9.59	165	18891	5.80	ng	# 37
57) Fluorene	10.15	166	5134	Below Cal	#	65
70) Phenanthrene	11.10	178	33431	2.62	ng	97
71) Anthracene	11.14	178	57572	4.47	ng	99
74) Fluoranthene	12.27	202	257374	19.10	ng	97
77) Pyrene	12.49	202	297932	21.44	ng	97
80) Benzo(a)anthracene	13.68	228	350388	32.83	ng	97
82) Chrysene	13.68	228	350388	34.89	ng	95
85) Indeno(1,2,3-cd)pyrene	16.29	276	66755	7.16	ng	# 100
87) Benzo(b)fluoranthene	14.69	252	317026	29.34	ng	# 96
88) Benzo(k)fluoranthene	14.69	252	317026	38.90	ng	99
89) Benzo(a)pyrene	14.99	252	140360	16.06	ng	97
91) Benzo(g,h,i)perylene	16.65	276	54782	6.56	ng	98

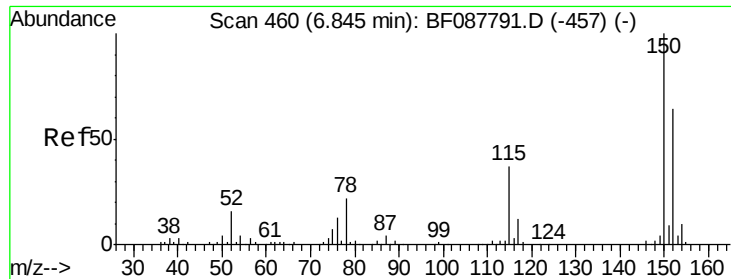
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 435

Delta R.T. -0.05 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL

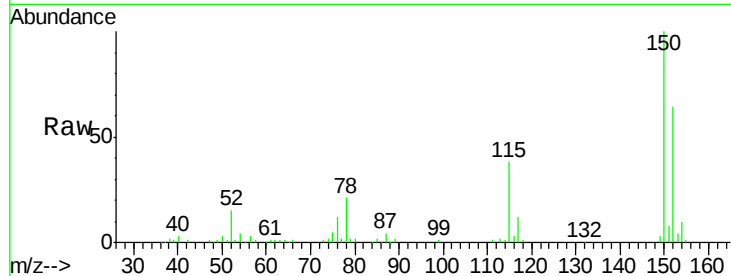
Tgt Ion:152 Resp: 89040

Ion Ratio Lower Upper

152 100

150 156.6 123.8 185.6

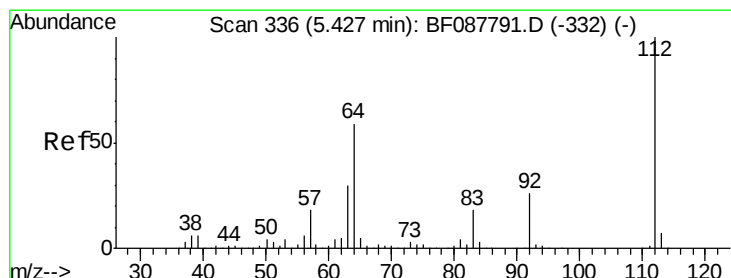
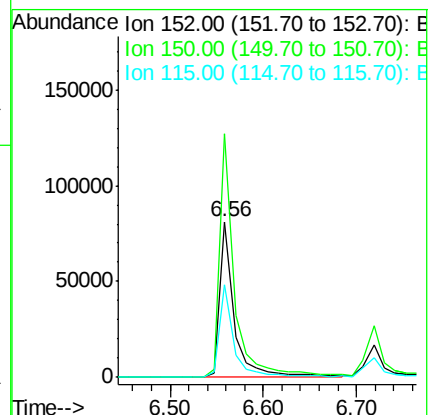
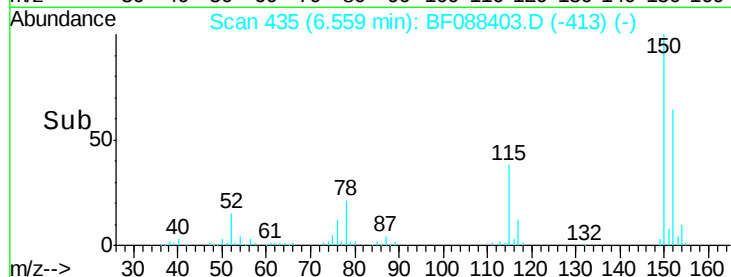
115 59.3 39.6 59.4



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: 6.54 ng

RT: 5.15 min Scan# 312

Delta R.T. -0.02 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

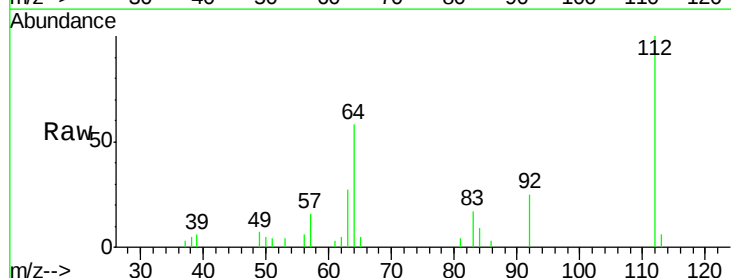
Tgt Ion:112 Resp: 34042

Ion Ratio Lower Upper

112 100

64 58.2 42.2 63.2

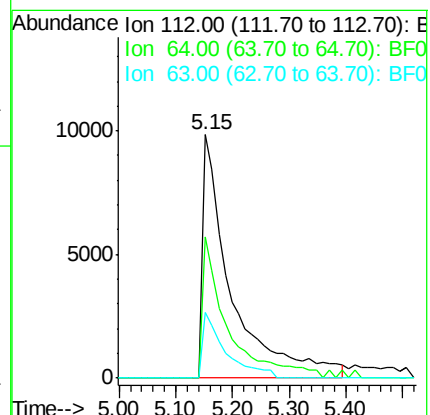
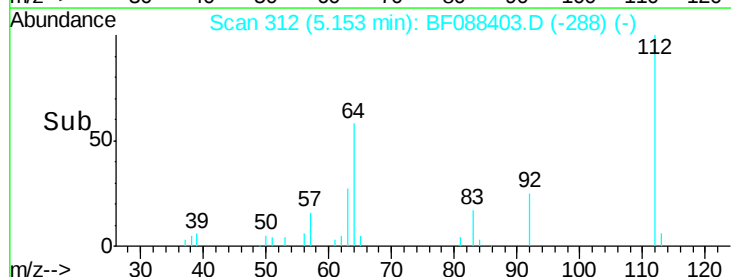
63 27.1 21.8 32.8

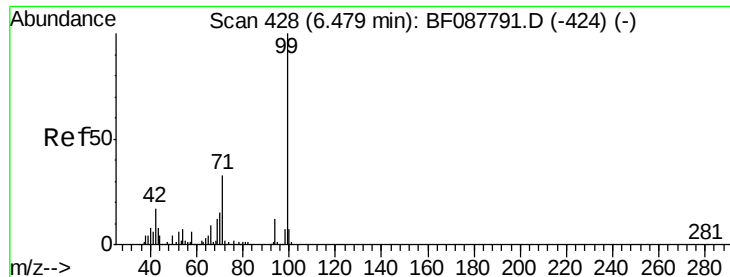


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 8.42 ng

RT: 6.24 min Scan# 407

Delta R.T. -0.02 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL

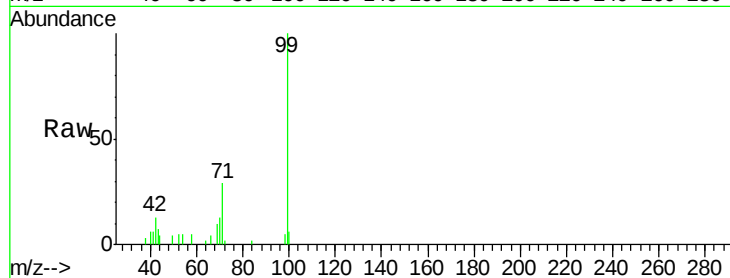
Tgt Ion: 99 Resp: 53136

Ion Ratio Lower Upper

99 100

42 13.4 12.2 18.2

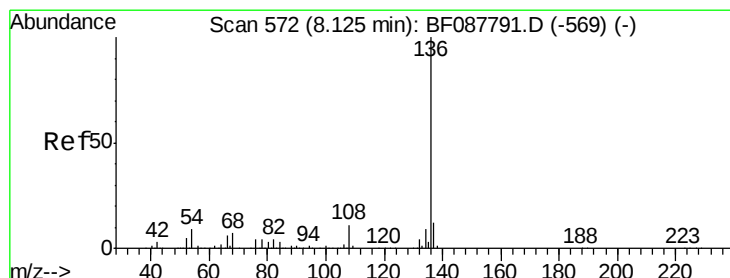
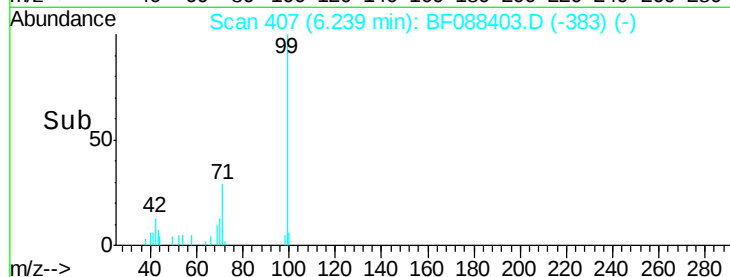
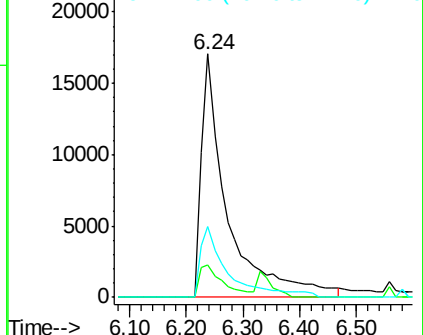
71 29.1 23.4 35.0



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: 7.85 min Scan# 548

Delta R.T. -0.05 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

Tgt Ion: 136 Resp: 354810

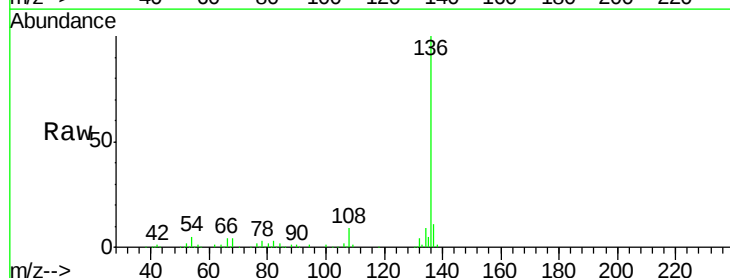
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 4.8 6.6 10.0#

68 4.4 5.1 7.7#

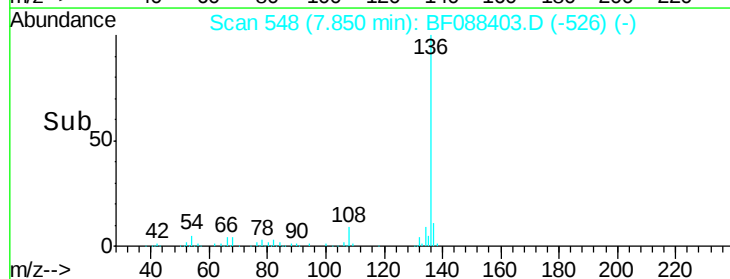
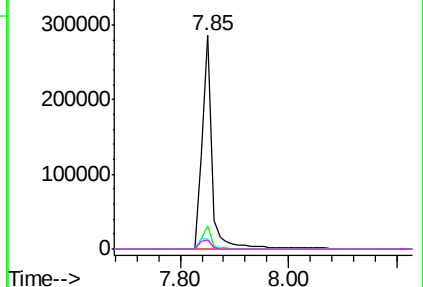


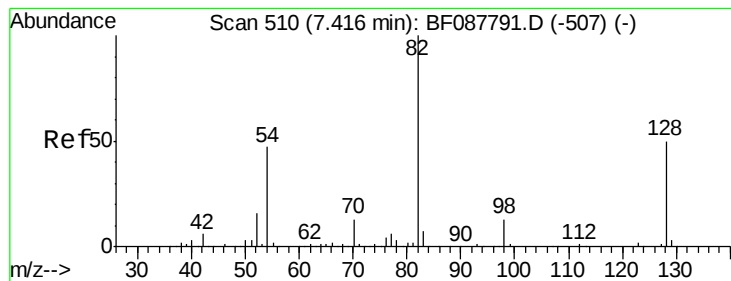
Abundance Ion 136.00 (135.70 to 136.70): E

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: 5.42 ng

RT: 7.14 min Scan# 486

Delta R.T. -0.03 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL

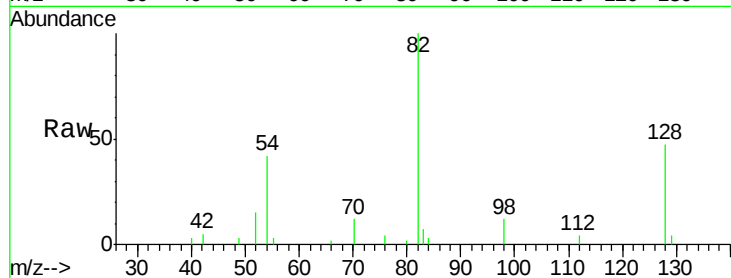
Tgt Ion: 82 Resp: 32936

Ion Ratio Lower Upper

82 100

128 47.2 35.9 53.9

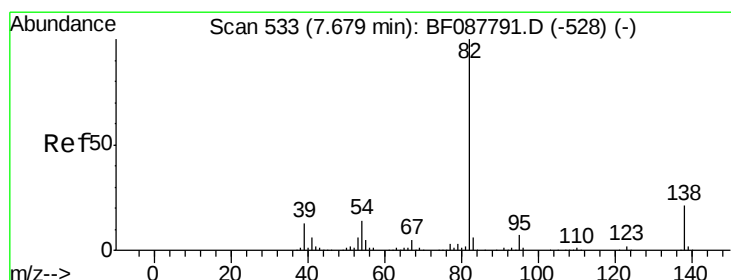
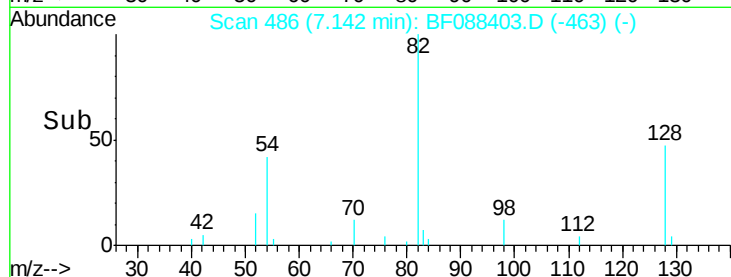
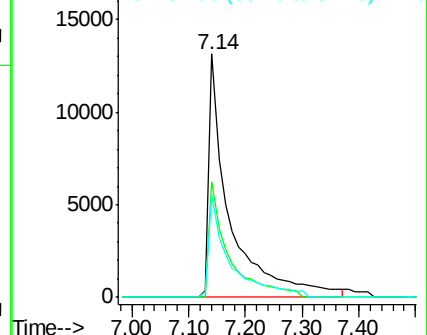
54 42.4 40.9 61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 3.01 ng

RT: 7.14 min Scan# 486

Delta R.T. -0.30 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

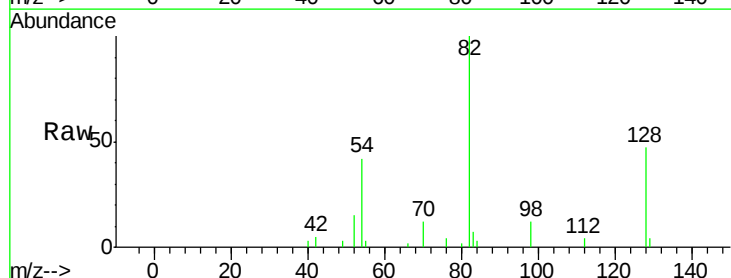
Tgt Ion: 82 Resp: 33883

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

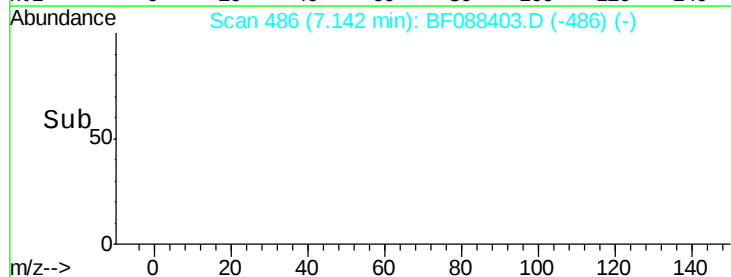
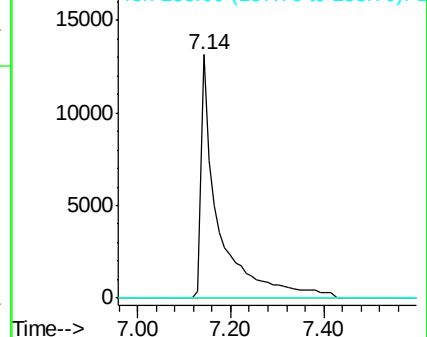
138 0.0 14.6 21.8#

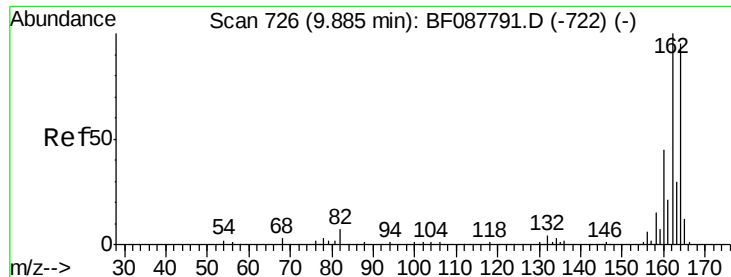


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.06 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL

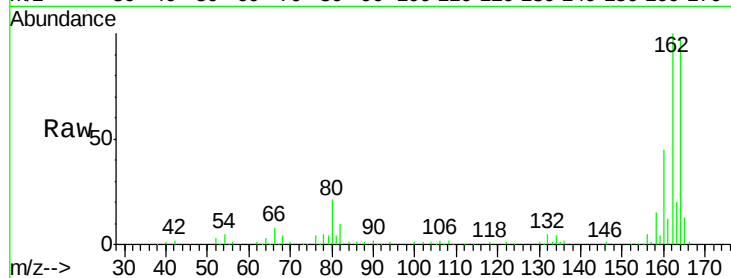
Tgt Ion:164 Resp: 152876

Ion Ratio Lower Upper

164 100

162 102.3 85.4 128.2

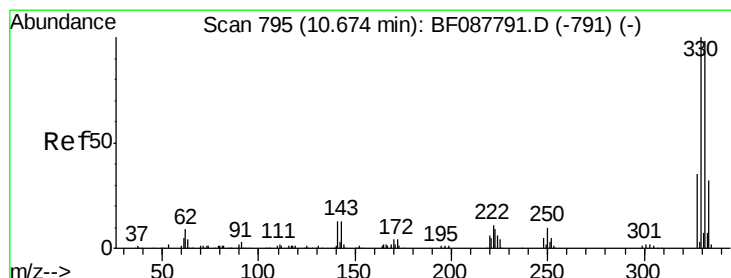
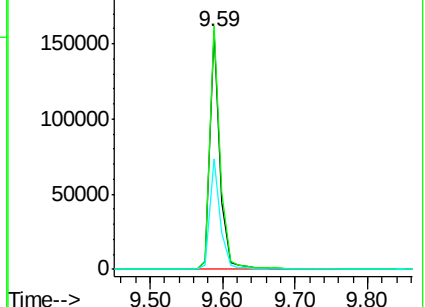
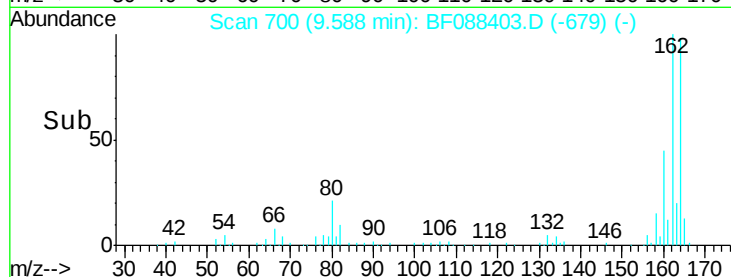
160 46.4 39.5 59.3



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: 4.86 ng

RT: 10.39 min Scan# 770

Delta R.T. -0.05 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

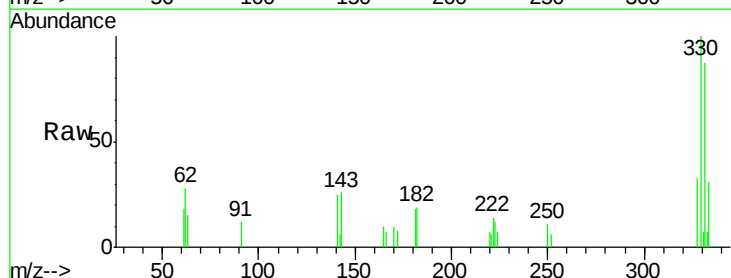
Tgt Ion:330 Resp: 7842

Ion Ratio Lower Upper

330 100

332 93.2 0.0 0.0#

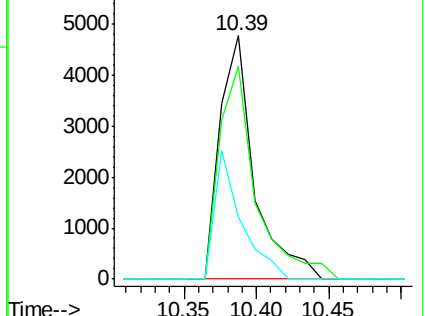
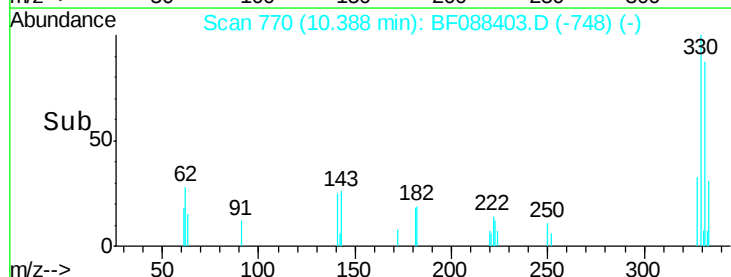
141 40.7 0.0 0.0#

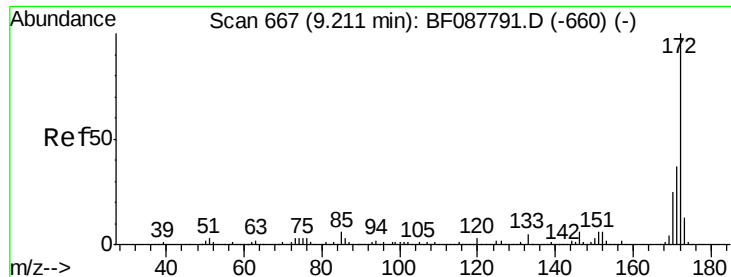


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

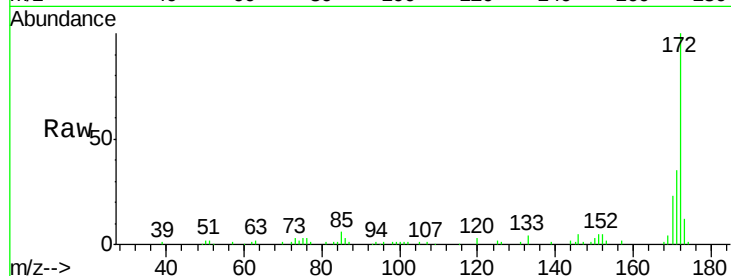




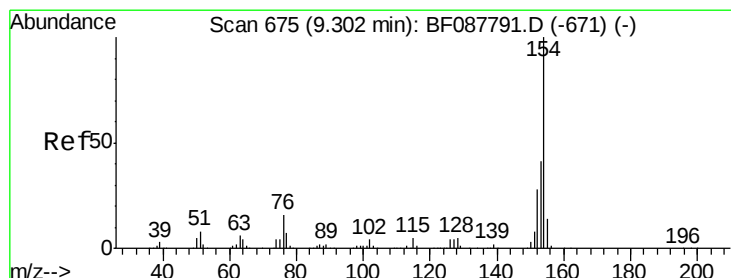
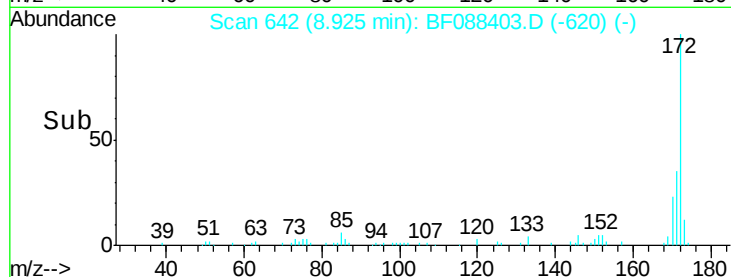
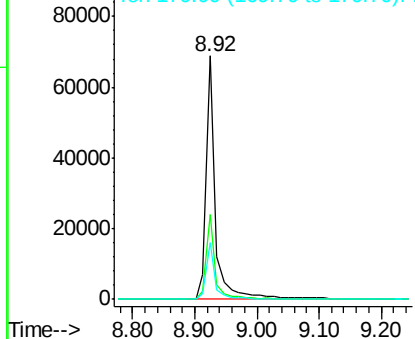
#44
 2-Fluorobiphenyl
 Concen: 2.07 ng
 RT: 8.92 min Scan# 642
 Delta R.T. -0.05 min
 Lab File: BF088403.D
 Acq: 26 Jun 2016 6:02

Instrument :
 BNA_F
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 PM-STA-1393(0-4)DL

Tgt Ion:172 Resp: 72736
 Ion Ratio Lower Upper
 172 100
 171 34.9 28.6 43.0
 170 23.1 19.2 28.8

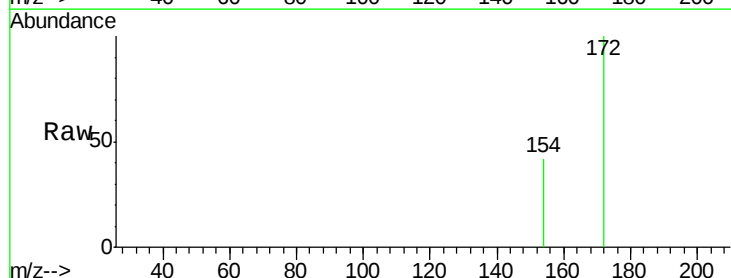


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

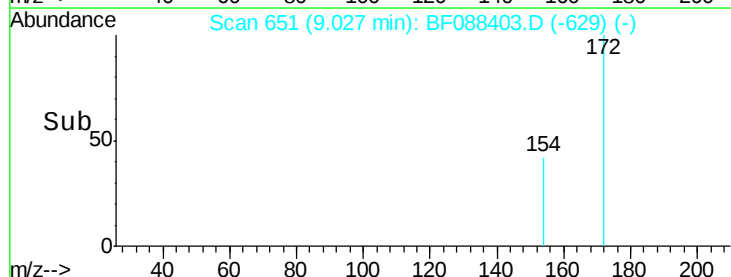
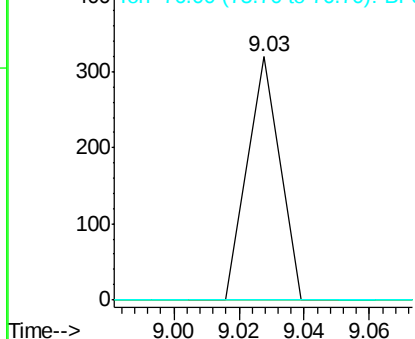


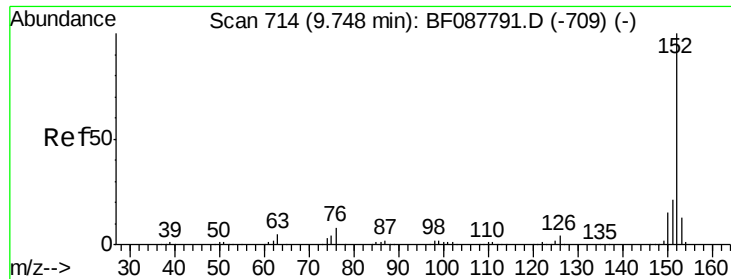
#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.03 min Scan# 651
 Delta R.T. -0.05 min
 Lab File: BF088403.D
 Acq: 26 Jun 2016 6:02

Tgt Ion:154 Resp: 220
 Ion Ratio Lower Upper
 154 100
 153 0.0 20.6 60.6#
 76 0.0 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0





#48

Acenaphthylene

Concen: 2.95 ng

RT: 9.45 min Scan# 688

Delta R.T. -0.06 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL

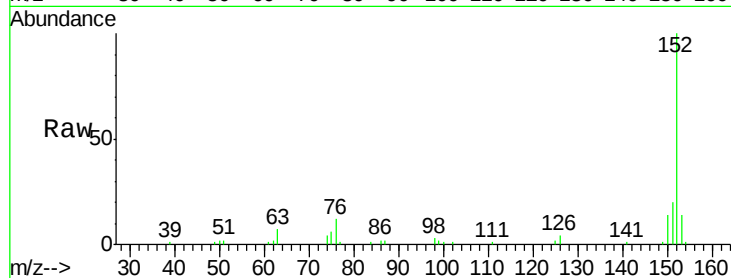
Tgt Ion:152 Resp: 46495

Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

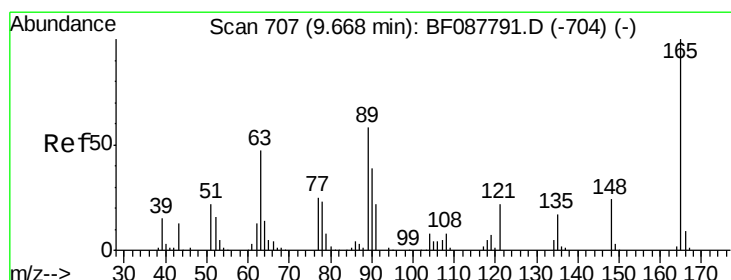
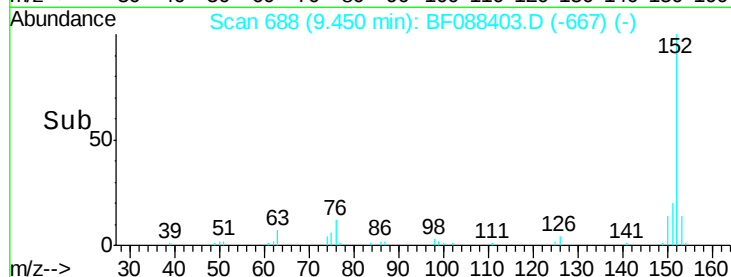
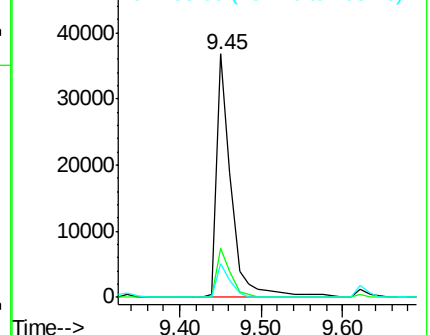
153 13.6 11.0 16.6



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: 7.45 ng

RT: 9.59 min Scan# 700

Delta R.T. 0.14 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

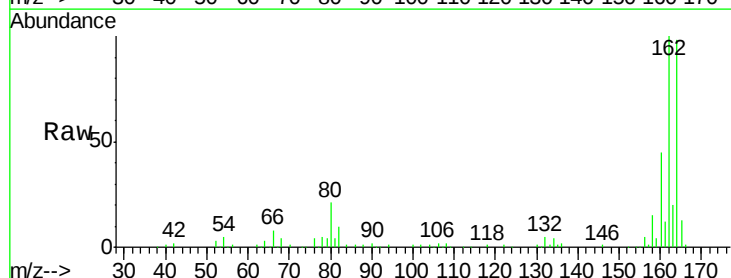
Tgt Ion:165 Resp: 18894

Ion Ratio Lower Upper

165 100

63 1.6 28.1 42.1#

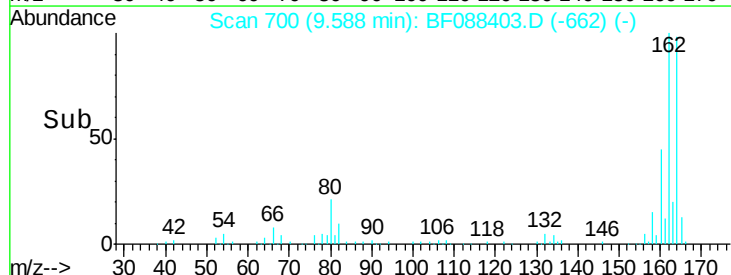
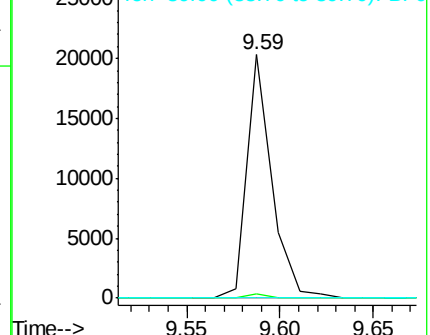
89 0.0 32.2 48.2#

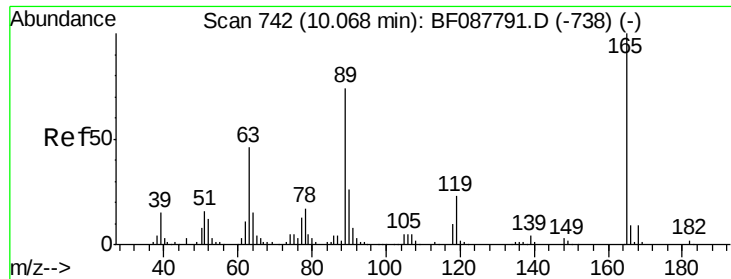


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

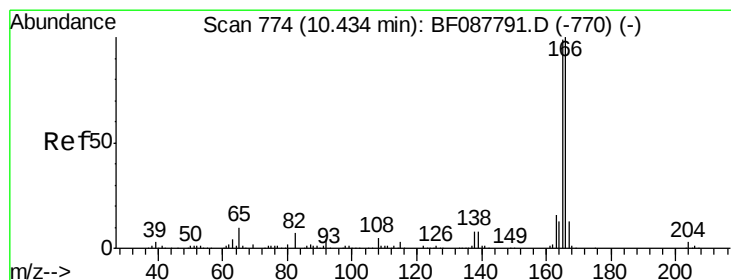
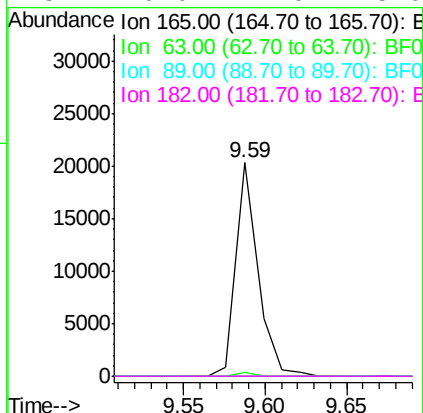
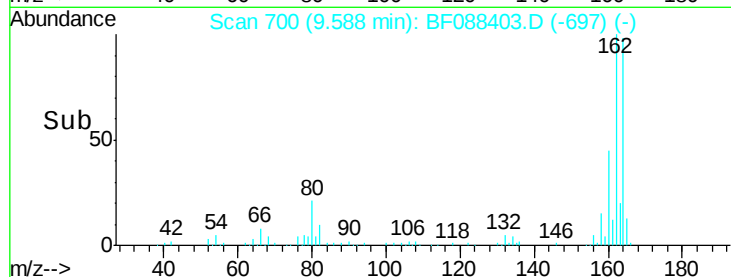
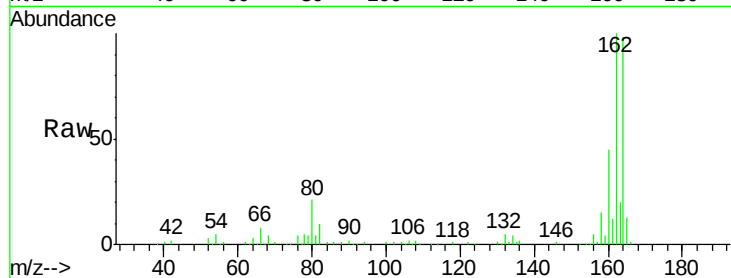




#56
2,4-Dinitrotoluene
Concen: 5.80 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.26 min
Lab File: BF088403.D
Acq: 26 Jun 2016 6:02

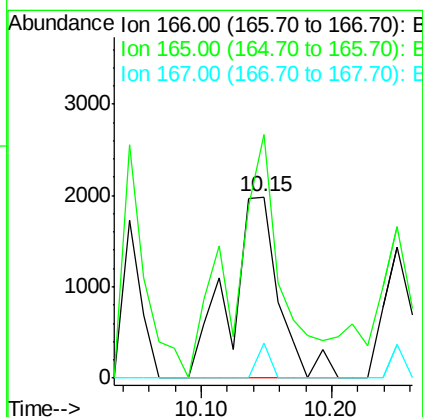
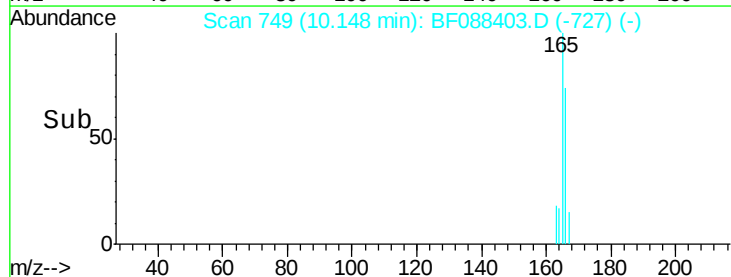
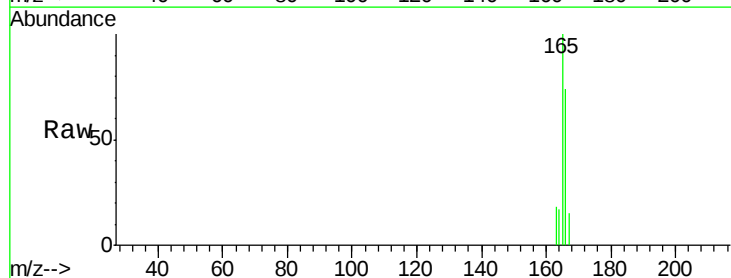
Instrument :
BNA_F
ClientSampleId :
PM-STA-1393(0-4)DL

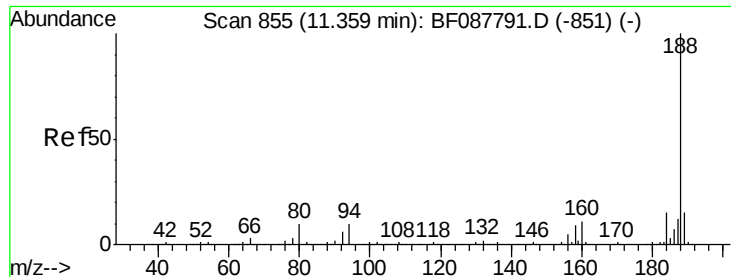
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	22.0	33.0#
89	0.0	41.1	61.7#
182	0.0	2.0	3.0#



#57
Fluorene
Concen: Below Cal
RT: 10.15 min Scan# 749
Delta R.T. -0.05 min
Lab File: BF088403.D
Acq: 26 Jun 2016 6:02

Tgt Ion	Ratio	Lower	Upper
166	100		
165	134.4	77.8	116.8#
167	19.6	11.2	16.8#

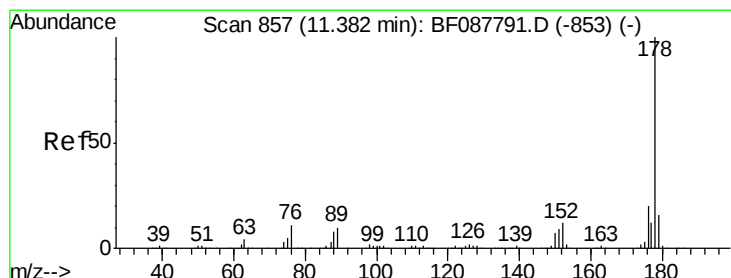
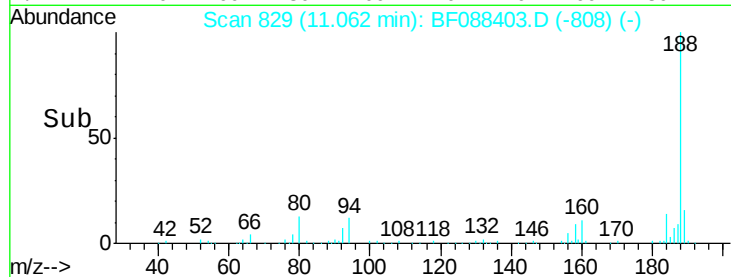
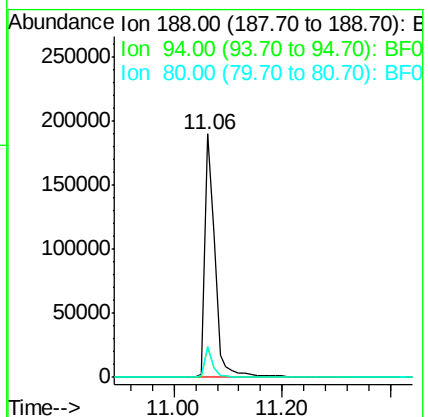
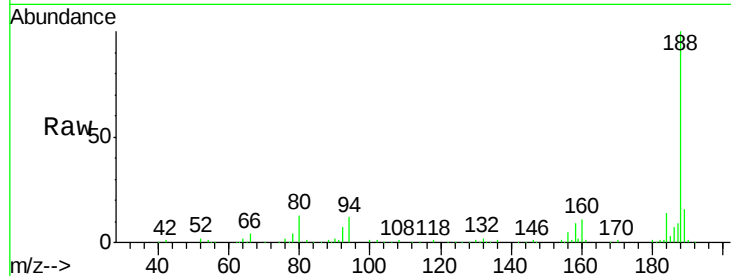




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.06 min Scan# 829
Delta R.T. -0.06 min
Lab File: BF088403.D
Acq: 26 Jun 2016 6:02

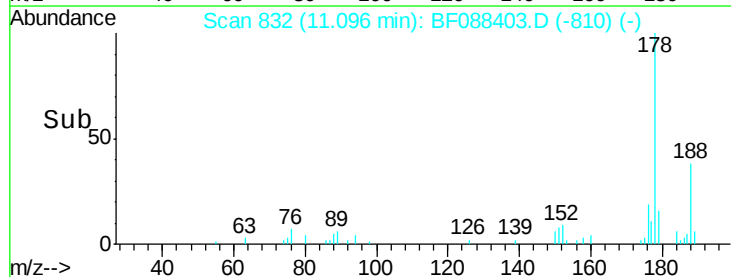
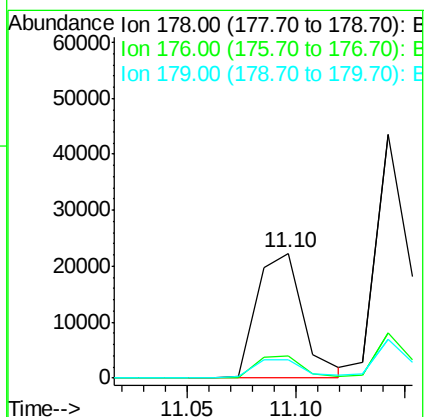
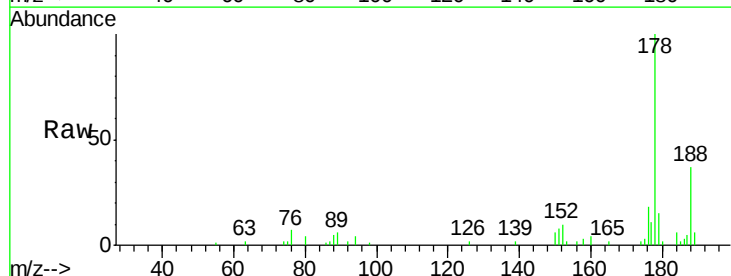
Instrument :
BNA_F
ClientSampleId :
PM-STA-1393(0-4)DL

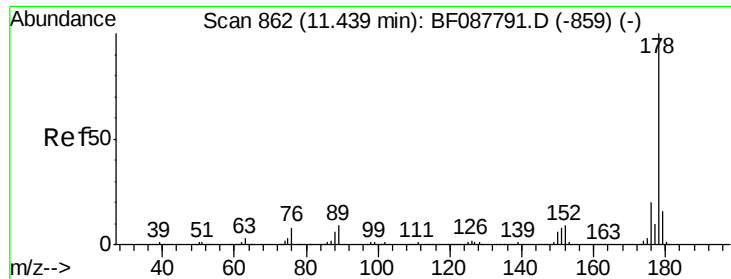
Tgt Ion:188 Resp: 243393
Ion Ratio Lower Upper
188 100
94 12.2 9.0 13.6
80 13.0 10.0 15.0



#70
Phenanthrene
Concen: 2.62 ng
RT: 11.10 min Scan# 832
Delta R.T. -0.05 min
Lab File: BF088403.D
Acq: 26 Jun 2016 6:02

Tgt Ion:178 Resp: 33431
Ion Ratio Lower Upper
178 100
176 18.2 15.8 23.6
179 15.0 13.0 19.4

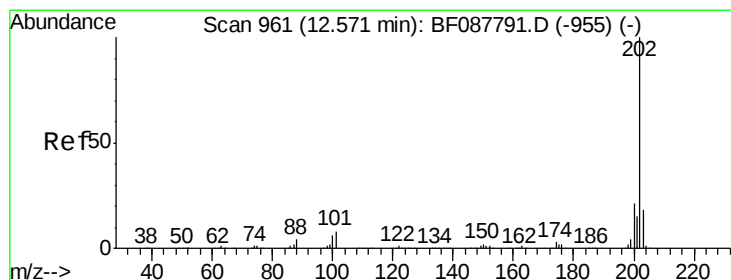
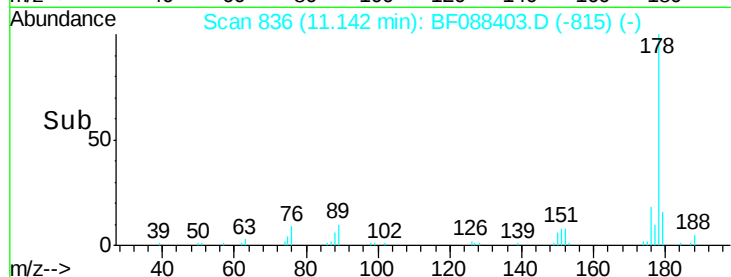
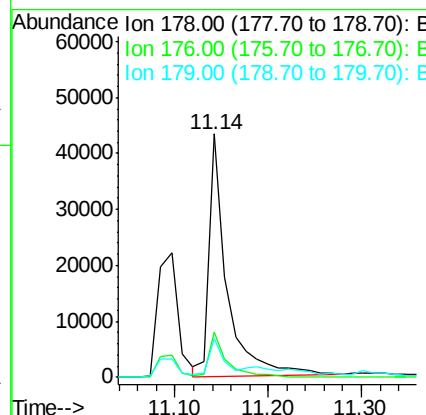
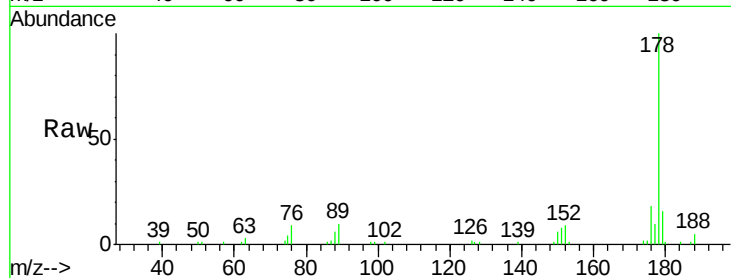




#71
 Anthracene
 Concen: 4.47 ng
 RT: 11.14 min Scan# 836
 Delta R.T. -0.06 min
 Lab File: BF088403.D
 Acq: 26 Jun 2016 6:02

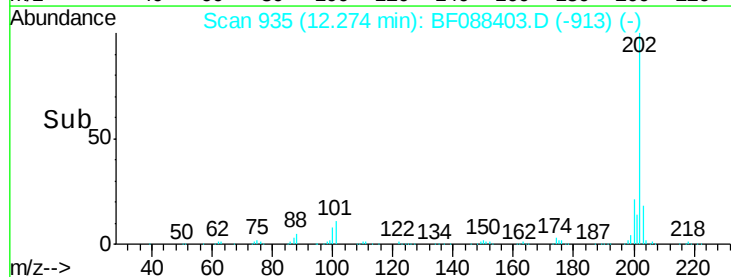
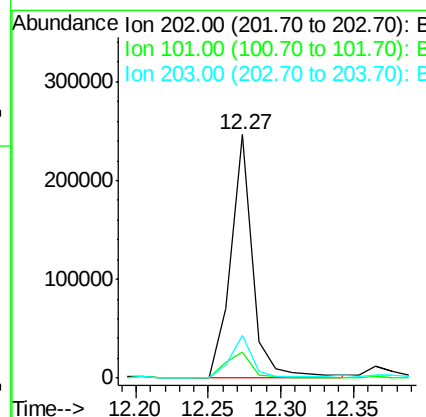
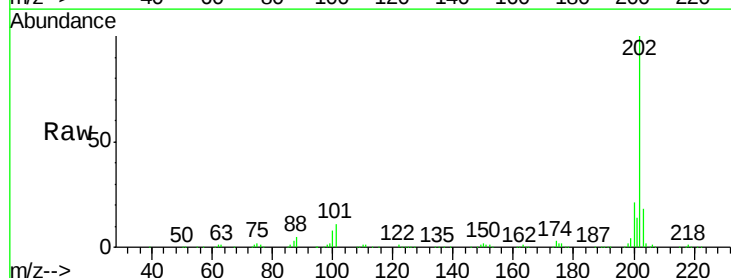
Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1393(0-4)DL

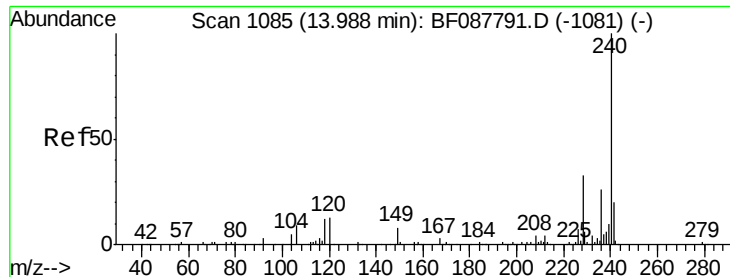
Tgt Ion:178 Resp: 57572
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.6 23.4
 179 16.0 12.8 19.2



#74
 Fluoranthene
 Concen: 19.10 ng
 RT: 12.27 min Scan# 935
 Delta R.T. -0.05 min
 Lab File: BF088403.D
 Acq: 26 Jun 2016 6:02

Tgt Ion:202 Resp: 257374
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 33.1
 203 17.6 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.69 min Scan# 1059

Delta R.T. -0.06 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL

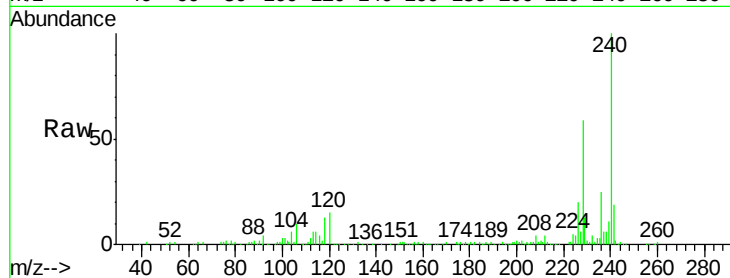
Tgt Ion:240 Resp: 187301

Ion Ratio Lower Upper

240 100

120 14.8 6.8 10.2#

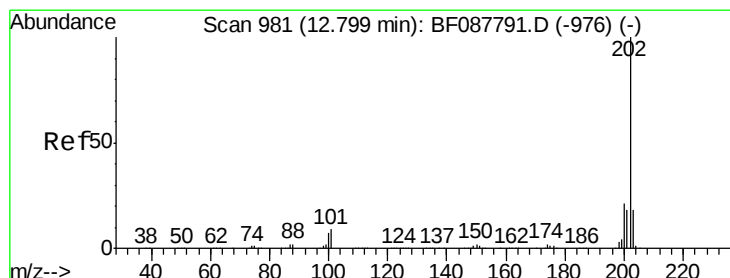
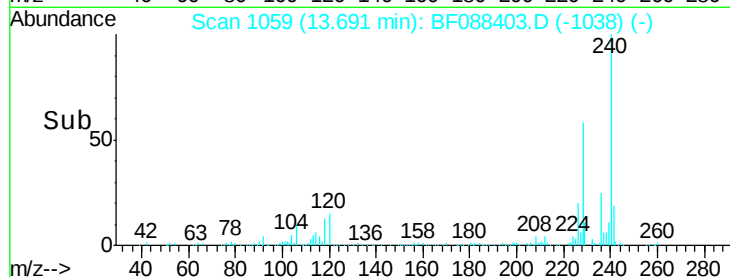
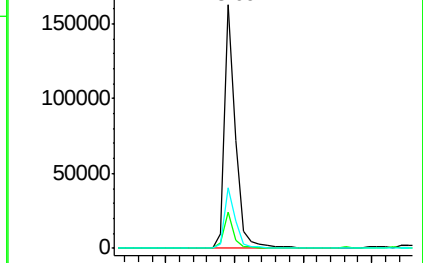
236 25.1 20.2 30.2



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: 21.44 ng

RT: 12.49 min Scan# 954

Delta R.T. -0.06 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

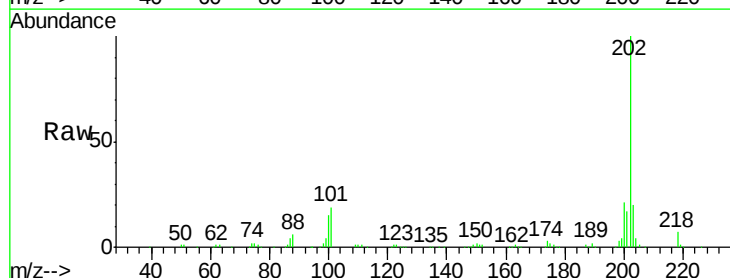
Tgt Ion:202 Resp: 297932

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

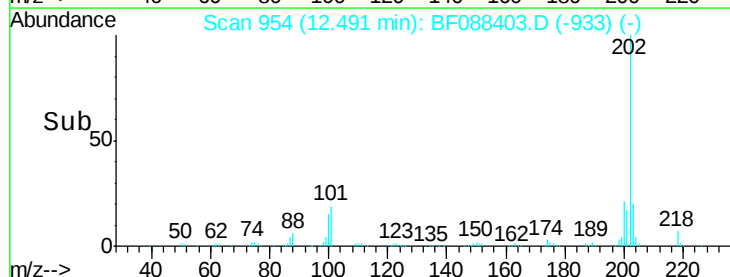
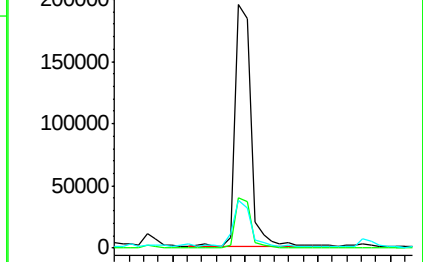
203 19.8 14.5 21.7

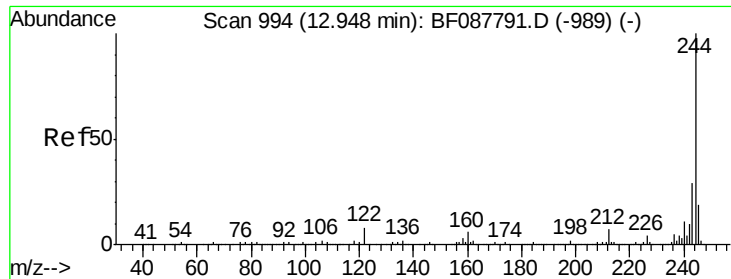


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

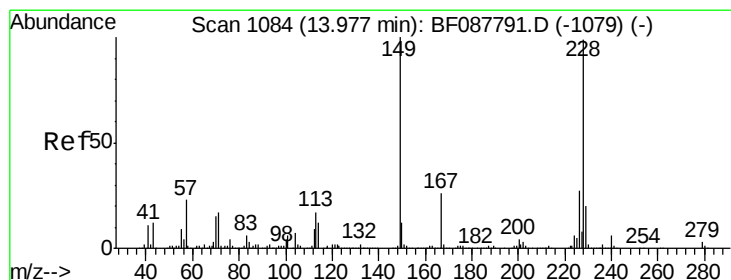
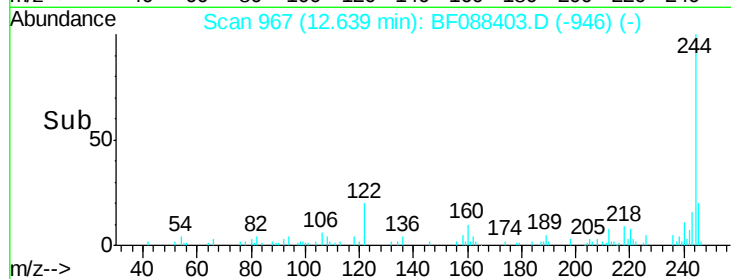
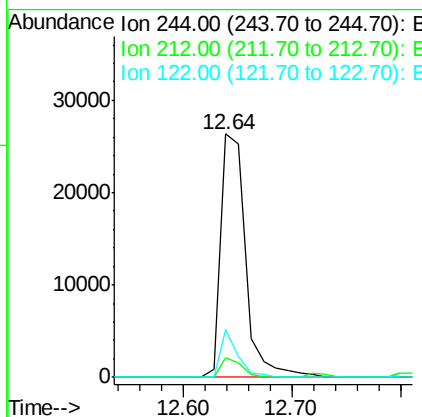
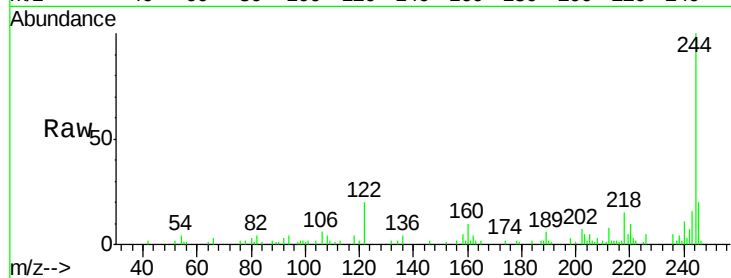




#78
 Terphenyl-d14
 Concen: 5.08 ng
 RT: 12.64 min Scan# 967
 Delta R.T. -0.06 min
 Lab File: BF088403.D
 Acq: 26 Jun 2016 6:02

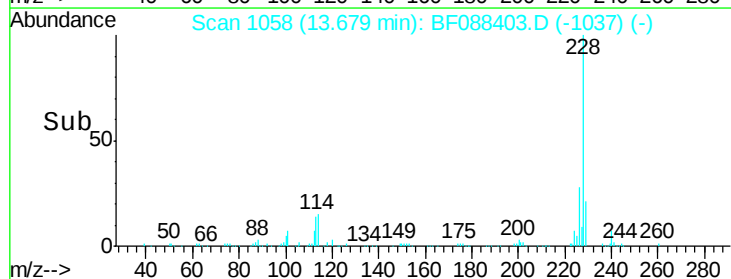
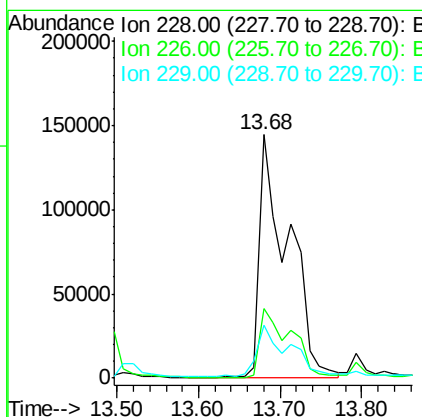
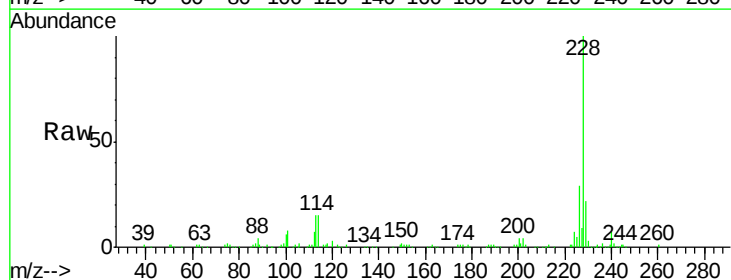
Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1393(0-4)DL

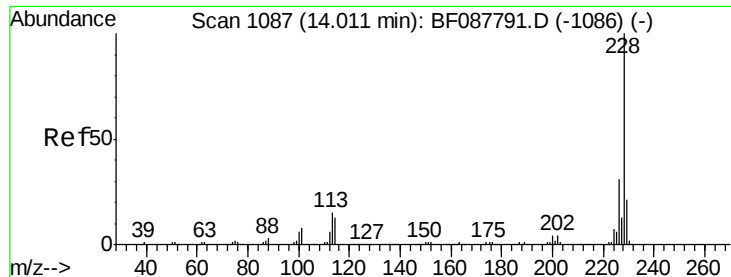
Tgt Ion:244 Resp: 41829
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.0 9.0
 122 19.8 11.2 16.8#



#80
 Benzo(a)anthracene
 Concen: 32.83 ng
 RT: 13.68 min Scan# 1058
 Delta R.T. -0.06 min
 Lab File: BF088403.D
 Acq: 26 Jun 2016 6:02

Tgt Ion:228 Resp: 350388
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.3 33.5
 229 21.8 16.0 24.0





#82

Chrysene

Concen: 34.89 ng

RT: 13.68 min Scan# 1058

Delta R.T. -0.09 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL

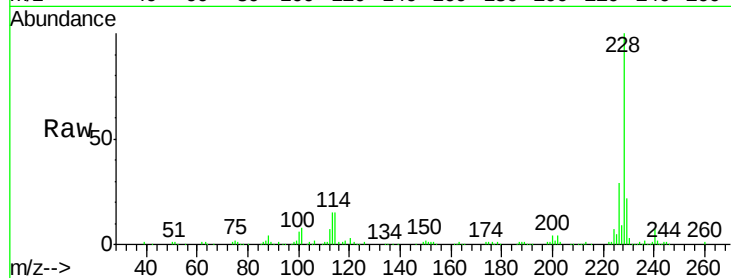
Tgt Ion:228 Resp: 350388

Ion Ratio Lower Upper

228 100

226 28.7 25.4 38.2

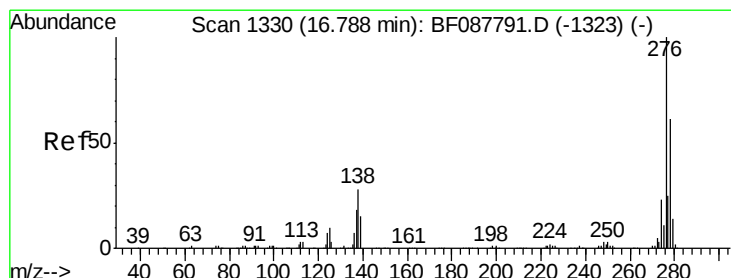
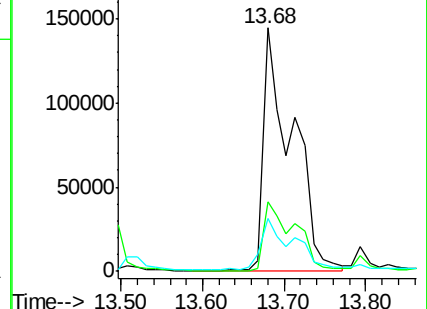
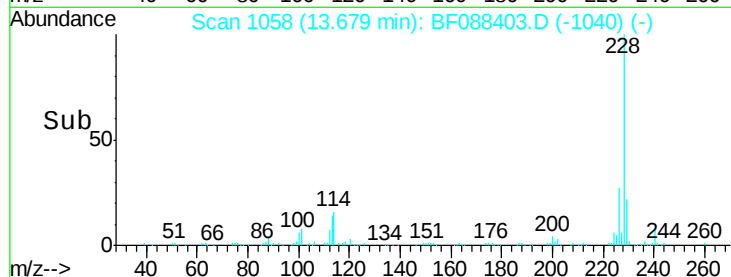
229 21.8 16.3 24.5



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: 7.16 ng

RT: 16.29 min Scan# 1286

Delta R.T. -0.08 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

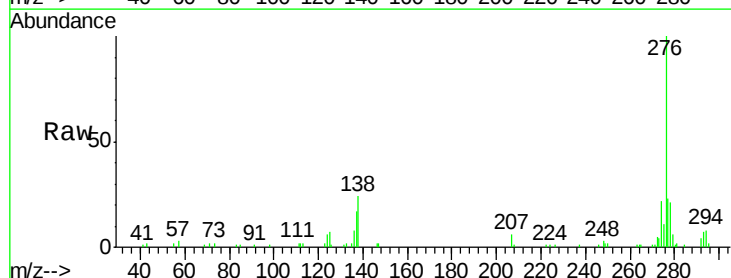
Tgt Ion:276 Resp: 66755

Ion Ratio Lower Upper

276 100

138 30.4 0.0 0.0#

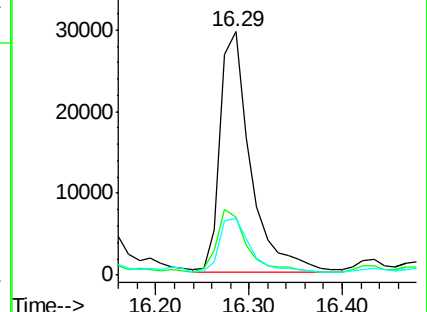
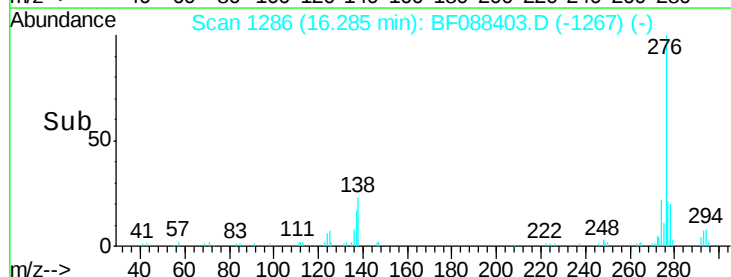
277 23.3 0.0 0.0#

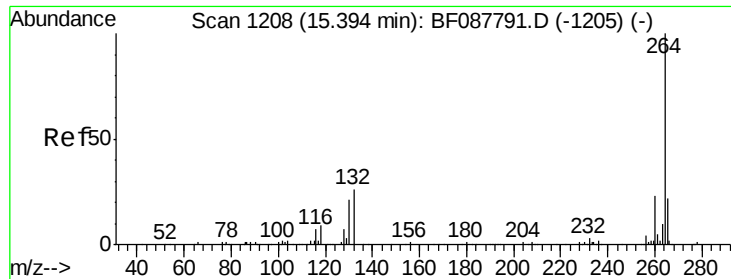


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

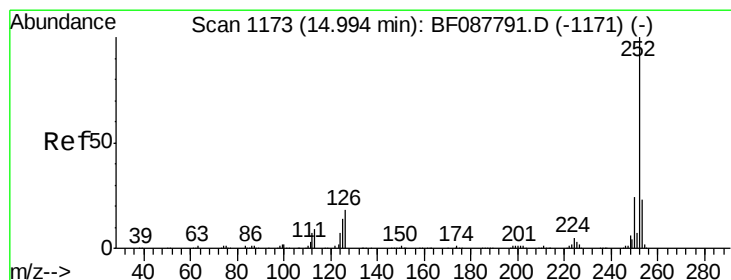
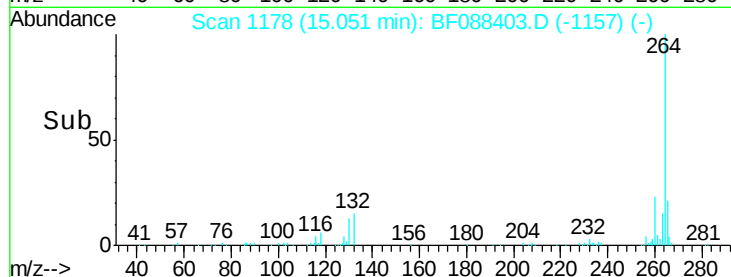
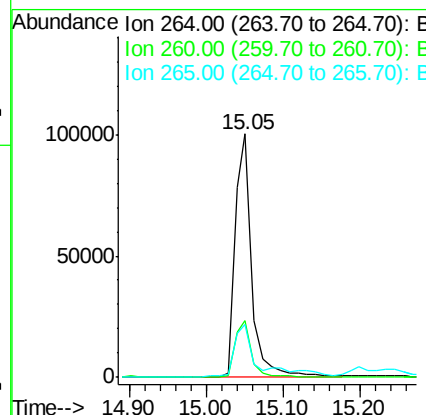
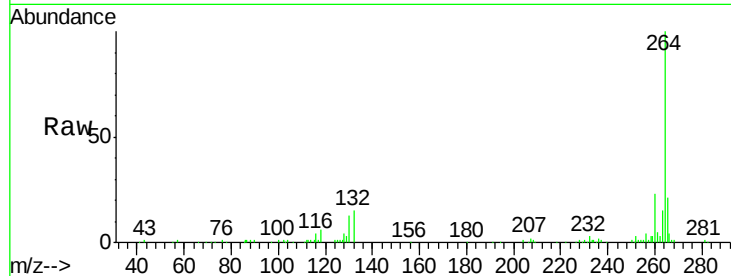




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.06 min
Lab File: BF088403.D
Acq: 26 Jun 2016 6:02

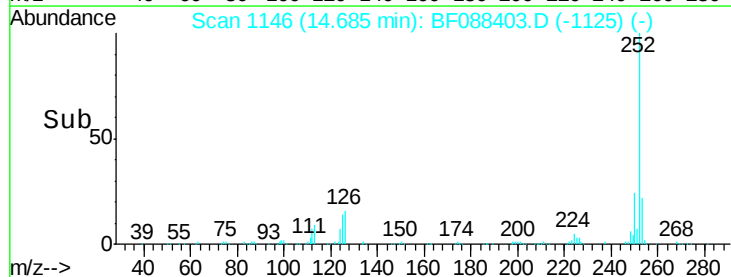
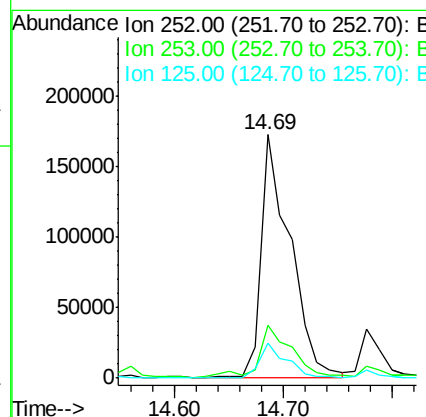
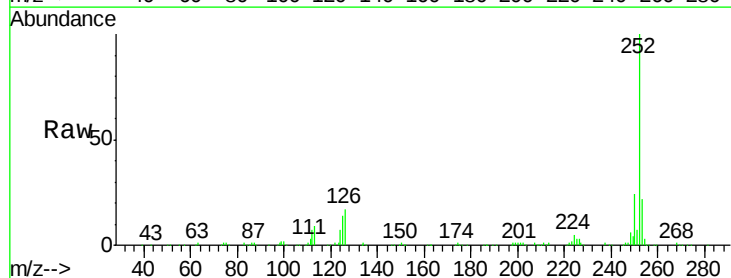
Instrument :
BNA_F
ClientSampleId :
PM-STA-1393(0-4)DL

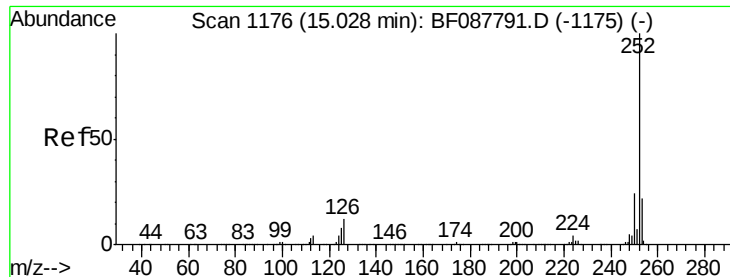
Tgt Ion: 264 Resp: 155021
Ion Ratio Lower Upper
264 100
260 23.2 19.2 28.8
265 21.5 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 29.34 ng
RT: 14.69 min Scan# 1146
Delta R.T. -0.06 min
Lab File: BF088403.D
Acq: 26 Jun 2016 6:02

Tgt Ion: 252 Resp: 317026
Ion Ratio Lower Upper
252 100
253 21.8 17.4 26.2
125 14.2 7.1 10.7#





#88

Benzo(k)fluoranthene

Concen: 38.90 ng

RT: 14.69 min Scan# 1146

Delta R.T. -0.08 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

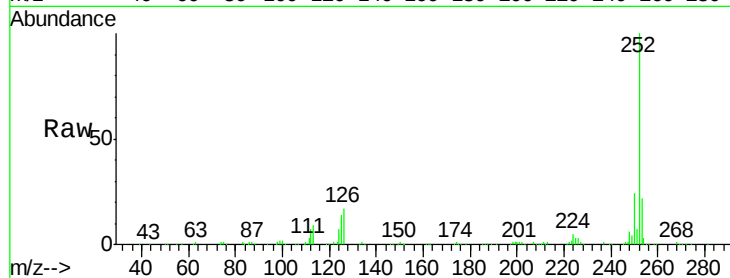
Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL

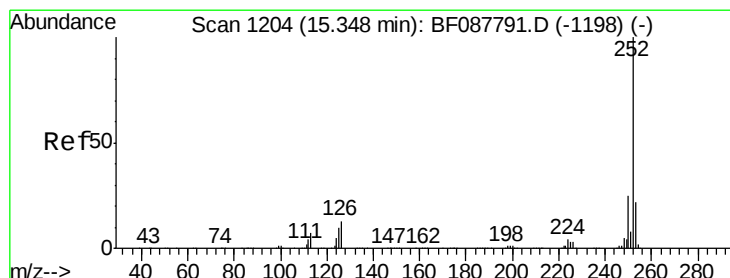
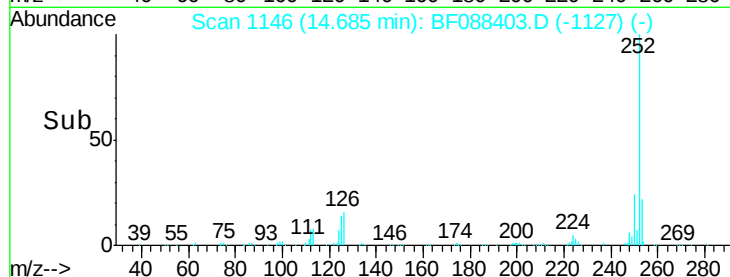
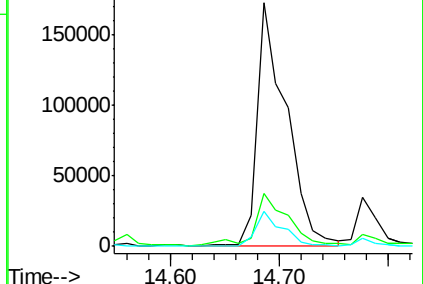
Tgt Ion:	252	Resp:	317026
Ion Ratio	Lower	Upper	
252	100		
253	21.8	18.0	27.0
125	14.2	11.2	16.8



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: 16.06 ng

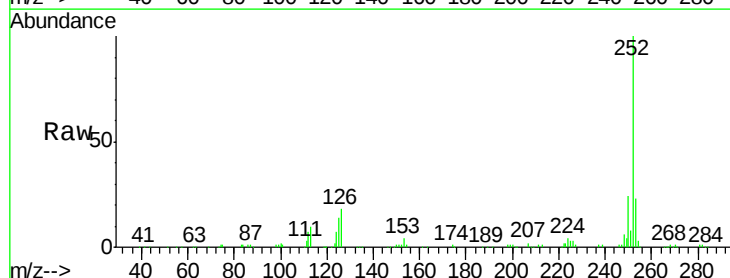
RT: 14.99 min Scan# 1173

Delta R.T. -0.06 min

Lab File: BF088403.D

Acq: 26 Jun 2016 6:02

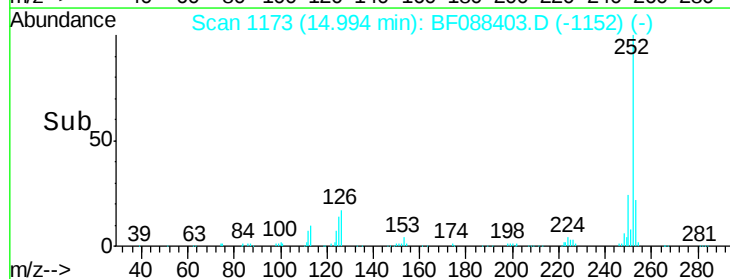
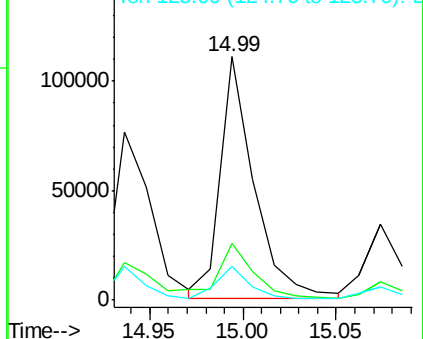
Tgt Ion:	252	Resp:	140360
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.9	26.9
125	13.7	12.5	18.7

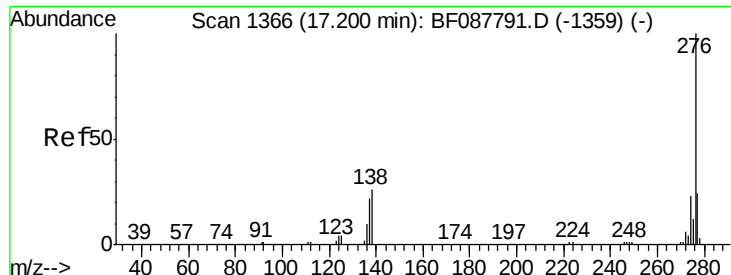


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(g,h,i)perylene

Concen: 6.56 ng

RT: 16.65 min Scan# 1318

Delta R.T. -0.09 min

Lab File: BF088403.D

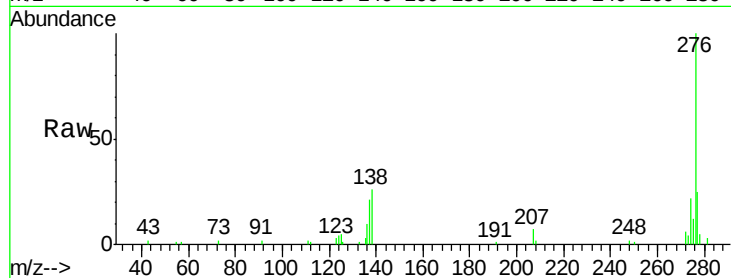
Acq: 26 Jun 2016 6:02

Instrument :

BNA_F

ClientSampleId :

PM-STA-1393(0-4)DL



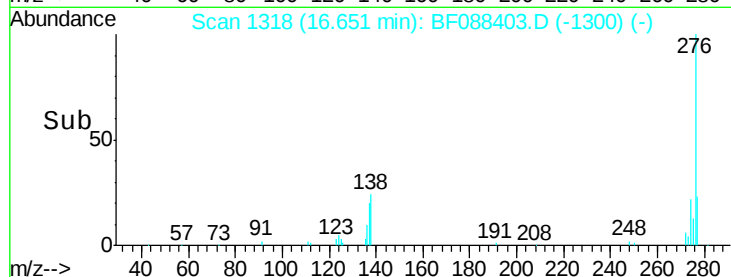
Tgt Ion: 276 Resp: 54782

Ion Ratio Lower Upper

276 100

277 24.9 18.9 28.3

138 25.7 21.4 32.2



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

