

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062516\
 Data File : BF088405.D
 Acq On : 26 Jun 2016 7:00
 Operator : UM/SJ
 Sample : H3598-10DL 10X
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)DL

Quant Time: Jun 26 08:12:27 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

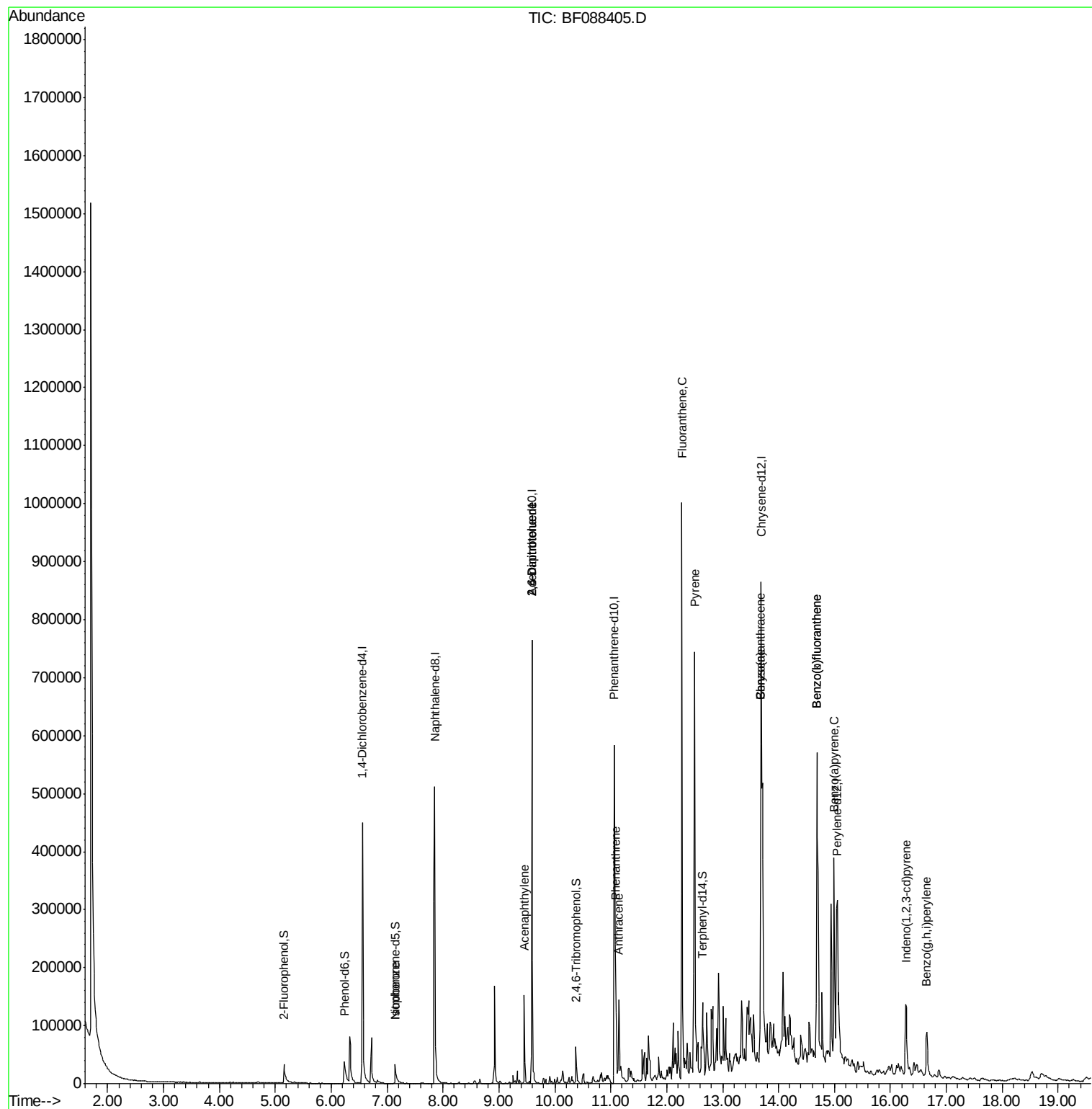
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.56	152	88902	20.00	ng	-0.05
21) Naphthalene-d8	7.85	136	364535	20.00	ng	-0.05
38) Acenaphthene-d10	9.59	164	160439	20.00	ng	-0.06
63) Phenanthrene-d10	11.06	188	263242	20.00	ng	-0.06
75) Chrysene-d12	13.69	240	197620	20.00	ng	-0.06
86) Perylene-d12	15.05	264	167776	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	33823	6.50	ng	-0.02
7) Phenol-d6	6.24	99	51951	8.24	ng	-0.02
23) Nitrobenzene-d5	7.14	82	31078	4.98	ng	-0.03
41) 2,4,6-Tribromophenol	10.38	330	8946	5.28	ng	-0.06
44) 2-Fluorobiphenyl	8.92	172	69419	1.35	ng	-0.05
78) Terphenyl-d14	12.64	244	47223	5.44	ng	-0.06
Target Compounds						
25) Isophorone	7.14	82	31080	2.69	ng	# 65
45) 1,1'-Biphenyl	9.03	154	580	Below Cal		# 43
48) Acenaphthylene	9.45	152	77194	4.67	ng	99
50) 2,6-Dinitrotoluene	9.59	165	20245	7.61	ng	# 38
56) 2,4-Dinitrotoluene	9.59	165	20246	5.92	ng	# 36
57) Fluorene	10.14	166	12195	Below Cal		97
70) Phenanthrene	11.09	178	102382	7.41	ng	98
71) Anthracene	11.14	178	80607	5.79	ng	99
74) Fluoranthene	12.27	202	441843	30.31	ng	97
77) Pyrene	12.50	202	456549	31.13	ng	98
80) Benzo(a)anthracene	13.68	228	284300	25.25	ng	96
82) Chrysene	13.68	228	284300	26.83	ng	96
85) Indeno(1,2,3-cd)pyrene	16.29	276	82448	8.38	ng	# 100
87) Benzo(b)fluoranthene	14.69	252	376035	32.16	ng	# 94
88) Benzo(k)fluoranthene	14.69	252	376035	42.63	ng	100
89) Benzo(a)pyrene	14.99	252	163676	17.30	ng	97
91) Benzo(g,h,i)perylene	16.65	276	67062	7.42	ng	97

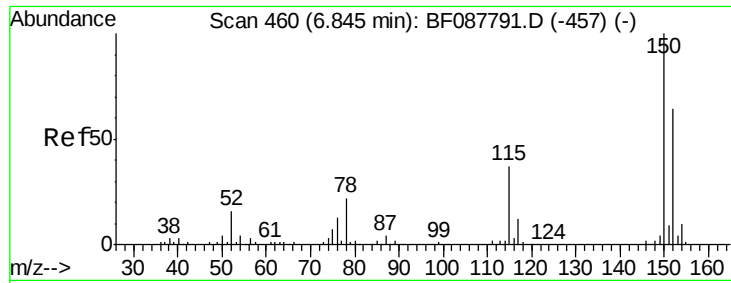
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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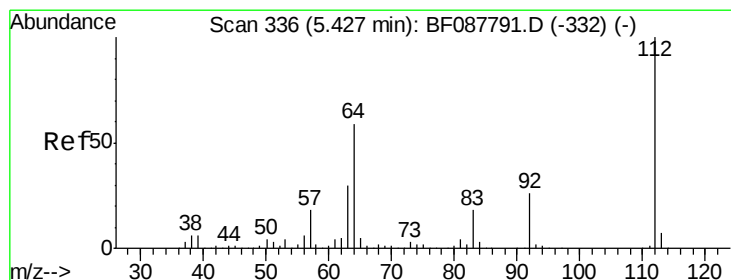
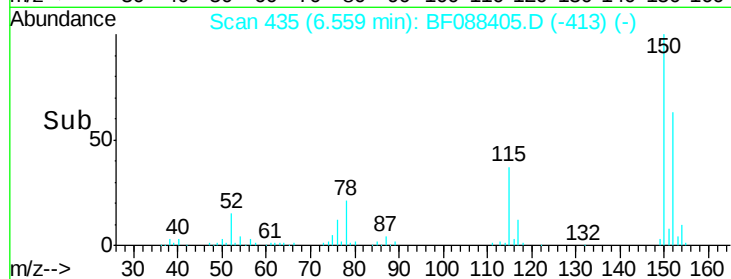
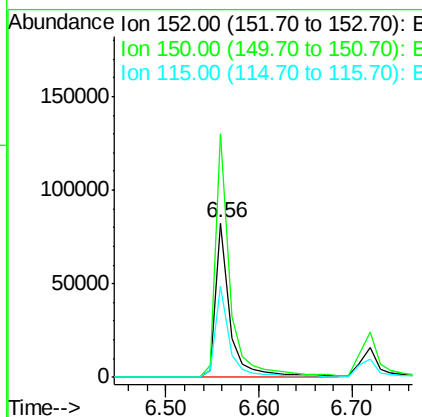
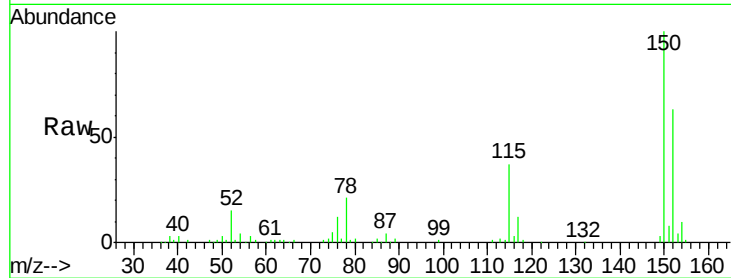




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.56 min Scan# 435
 Delta R.T. -0.05 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

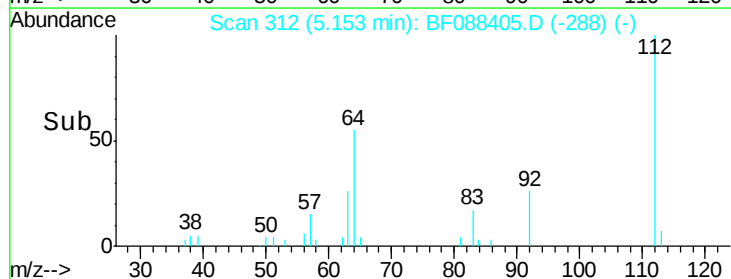
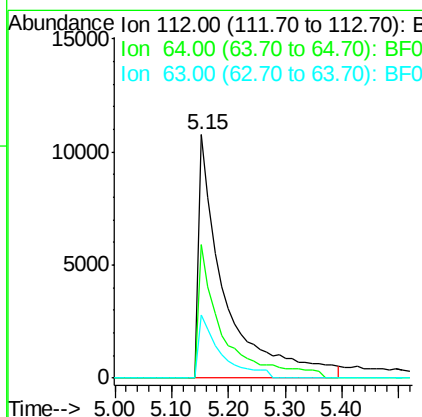
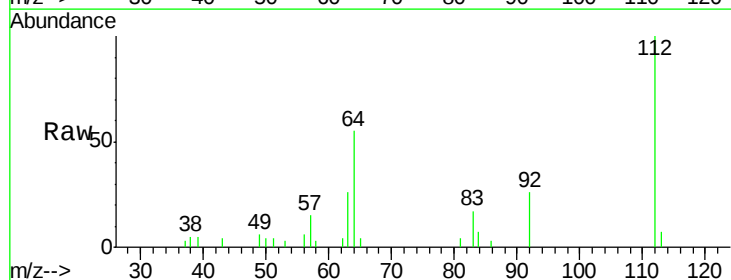
Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)DL

Tgt Ion:152 Resp: 88902
 Ion Ratio Lower Upper
 152 100
 150 158.1 123.8 185.6
 115 58.9 39.6 59.4



#5
 2-Fluorophenol
 Concen: 6.50 ng
 RT: 5.15 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

Tgt Ion:112 Resp: 33823
 Ion Ratio Lower Upper
 112 100
 64 55.0 42.2 63.2
 63 26.2 21.8 32.8





#7

Phenol-d6

Concen: 8.24 ng

RT: 6.24 min Scan# 407

Delta R.T. -0.02 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

Instrument :

BNA_F

ClientSampleId :

PM-STA-1381(0-4)DL

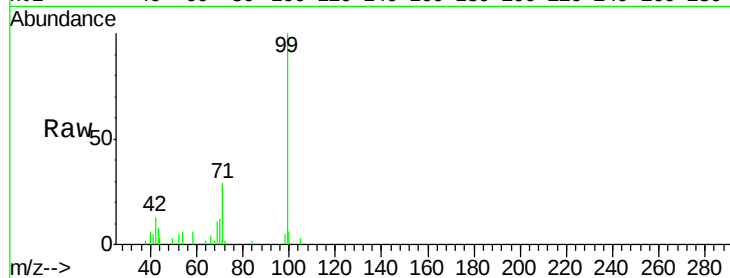
Tgt Ion: 99 Resp: 51951

Ion Ratio Lower Upper

99 100

42 13.0 12.2 18.2

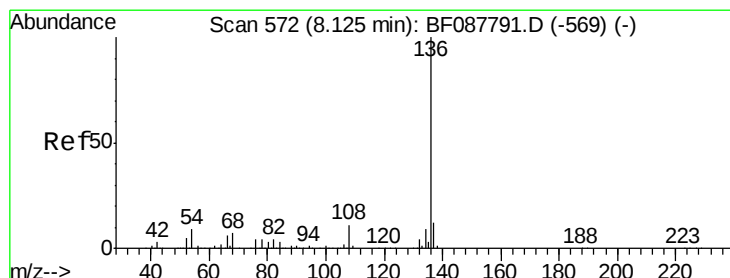
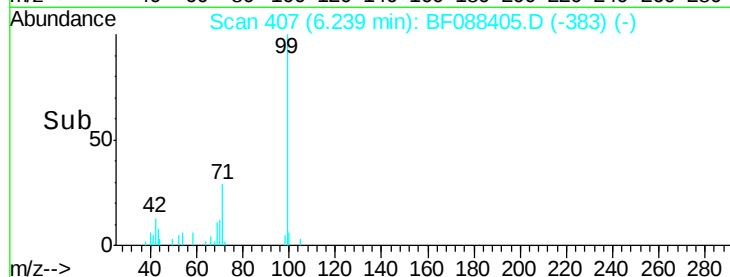
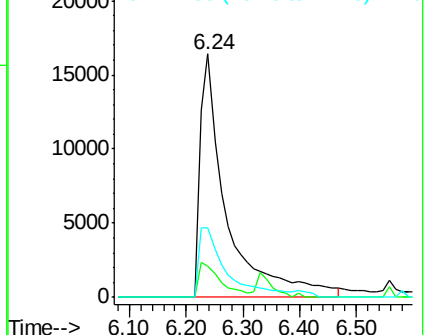
71 28.7 23.4 35.0



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: BF088405.D

Acq: 26 Jun 2016 7:00

Tgt Ion: 136 Resp: 364535

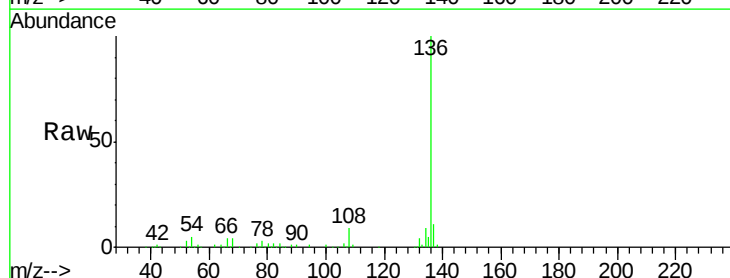
Ion Ratio Lower Upper

136 100

137 10.5 9.1 13.7

54 4.7 6.6 10.0#

68 4.2 5.1 7.7#

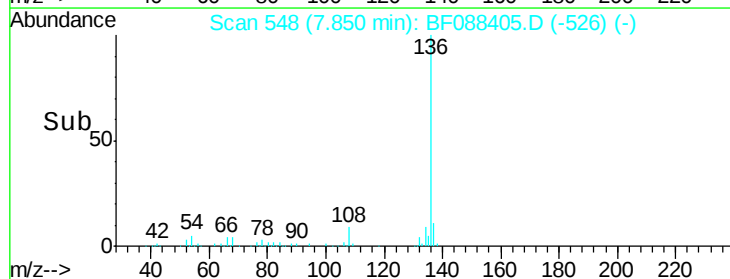
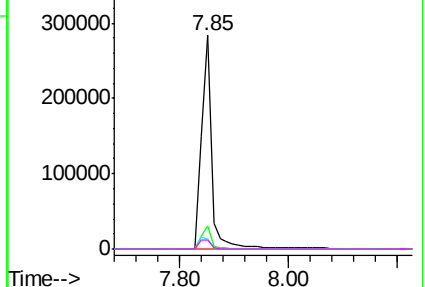


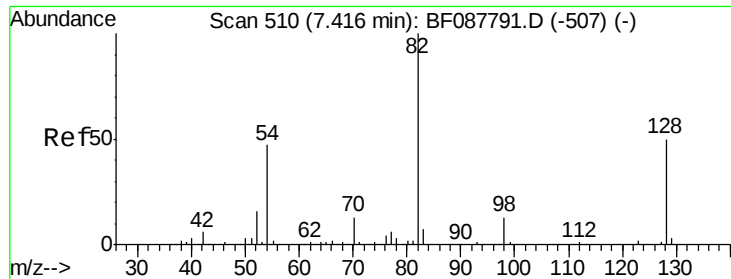
Abundance Ion 136.00 (135.70 to 136.70): E

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

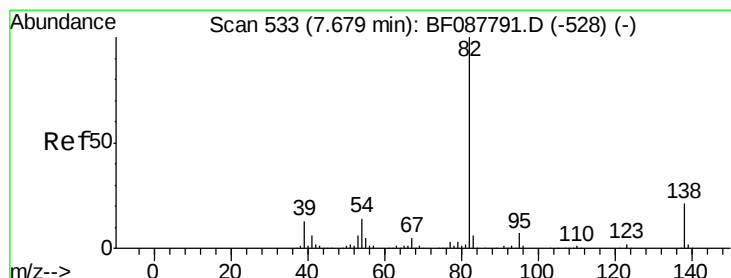
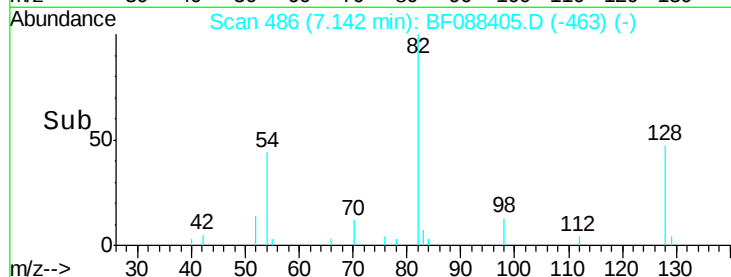
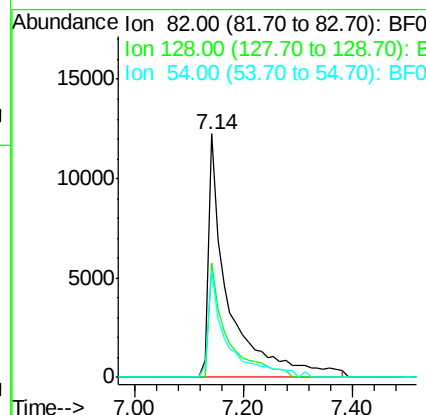
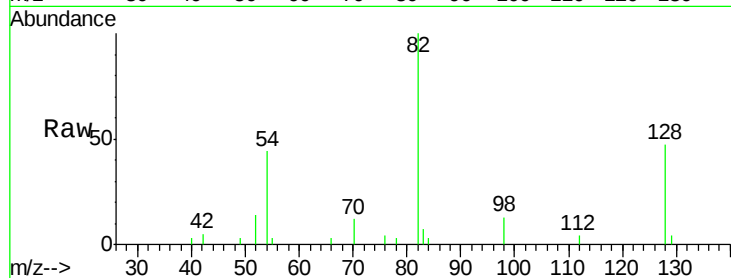




#23
 Nitrobenzene-d5
 Concen: 4.98 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.03 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

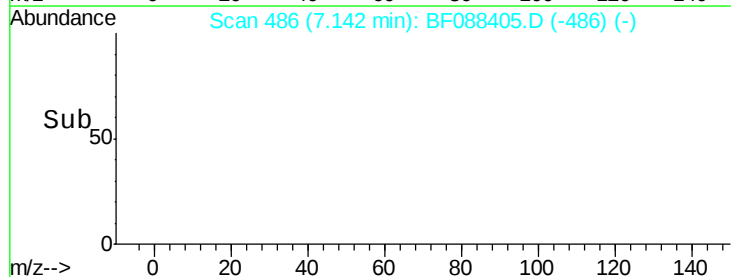
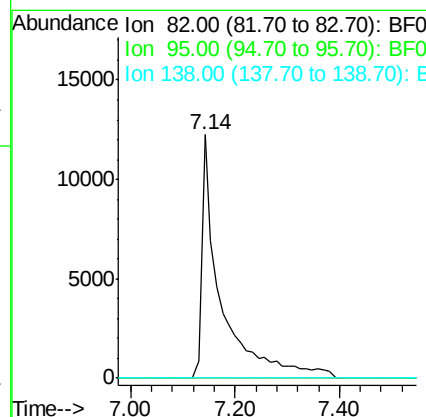
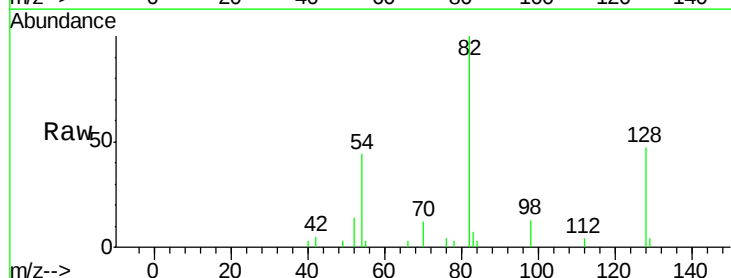
Instrument :
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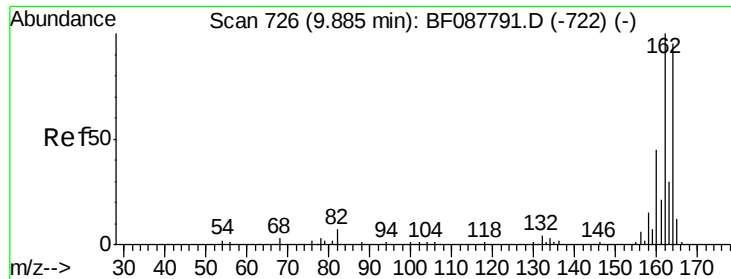
Tgt Ion: 82 Resp: 31078
 Ion Ratio Lower Upper
 82 100
 128 47.0 35.9 53.9
 54 43.6 40.9 61.3



#25
 Isophorone
 Concen: 2.69 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.30 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

Tgt Ion: 82 Resp: 31080
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.4 8.2#
 138 0.0 14.6 21.8#

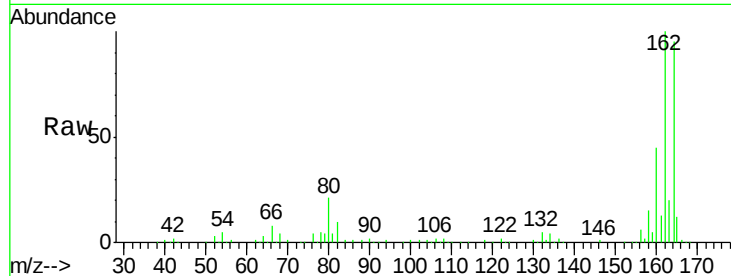




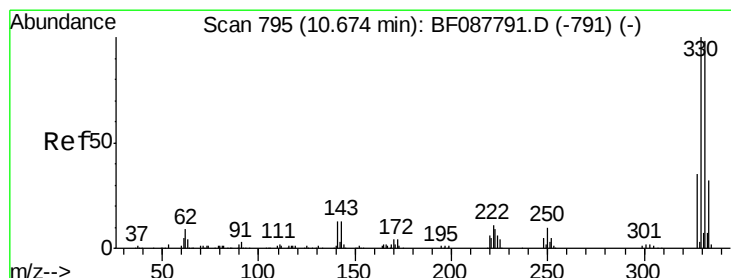
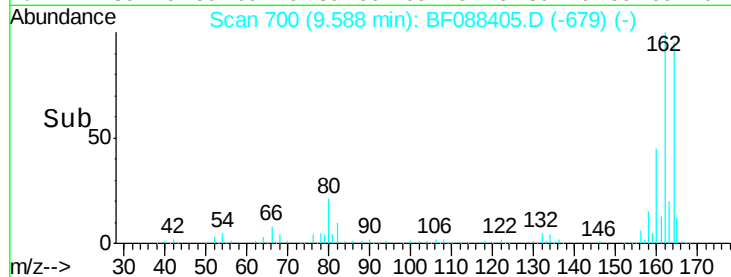
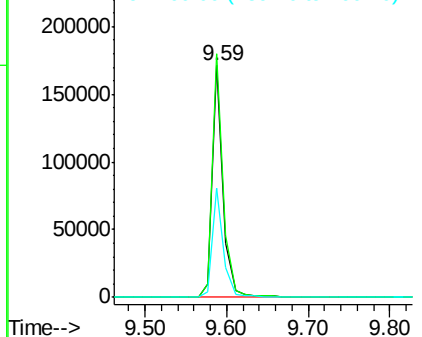
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.59 min Scan# 700
 Delta R.T. -0.06 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)DL

Tgt Ion:164 Resp: 160439
 Ion Ratio Lower Upper
 164 100
 162 105.1 85.4 128.2
 160 47.0 39.5 59.3

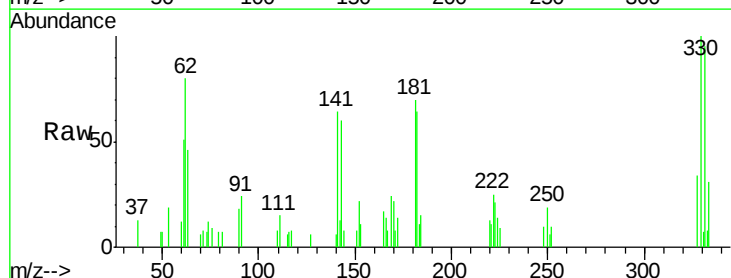


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

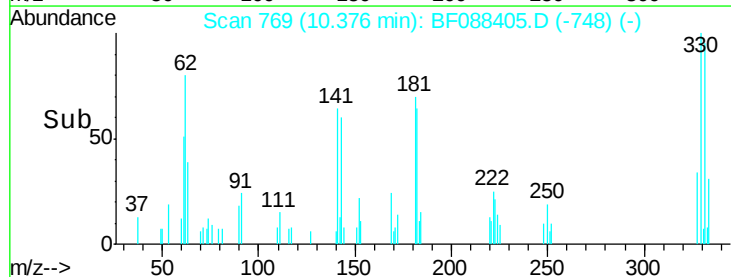
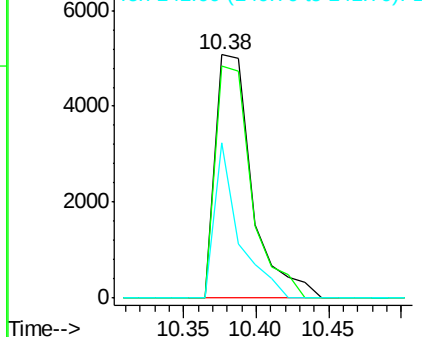


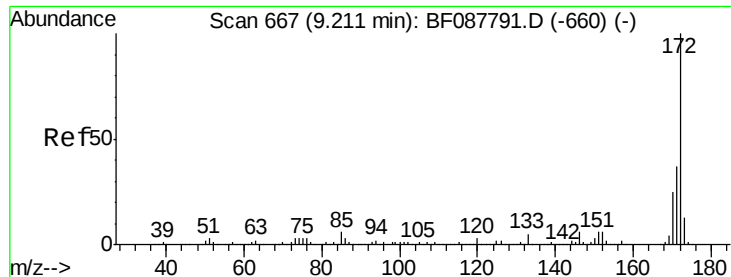
#41
 2,4,6-Tribromophenol
 Concen: 5.28 ng
 RT: 10.38 min Scan# 769
 Delta R.T. -0.06 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

Tgt Ion:330 Resp: 8946
 Ion Ratio Lower Upper
 330 100
 332 93.6 0.0 0.0#
 141 42.1 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

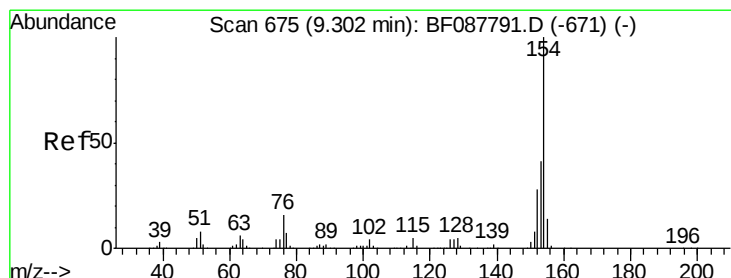
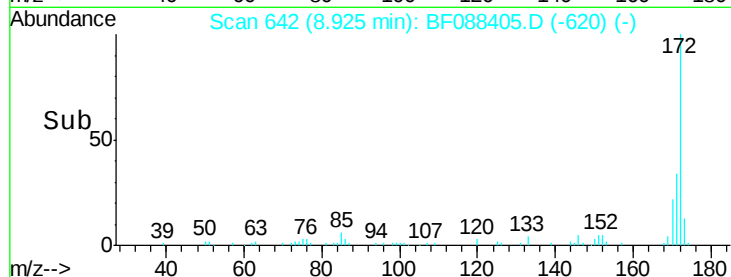
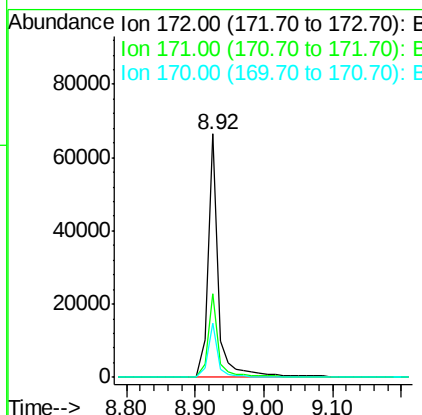
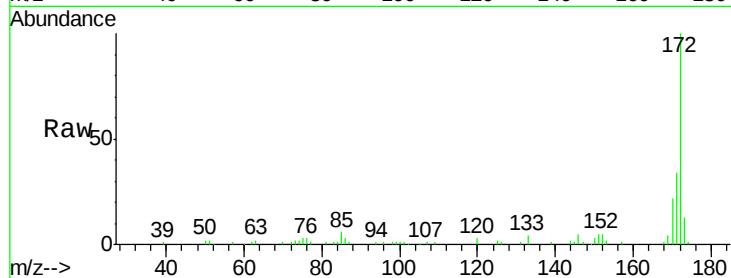




#44
 2-Fluorobiphenyl
 Concen: 1.35 ng
 RT: 8.92 min Scan# 642
 Delta R.T. -0.05 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

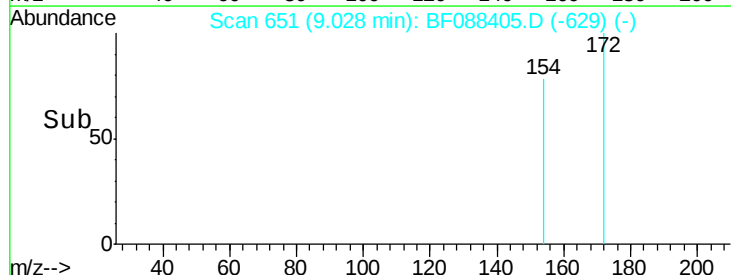
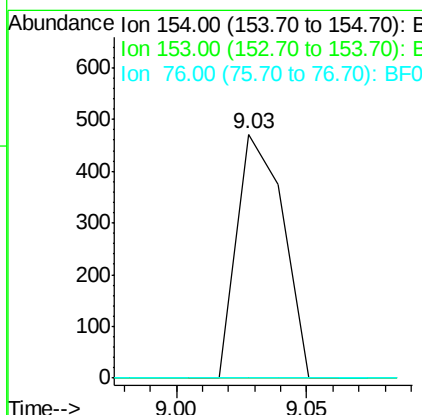
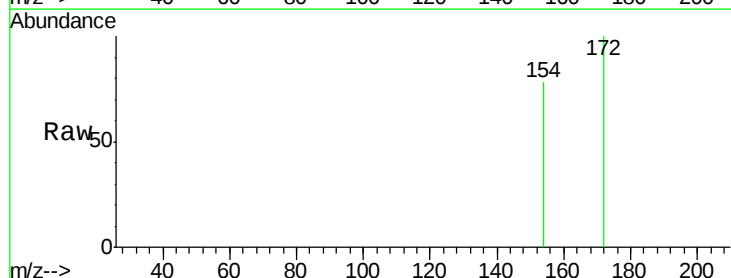
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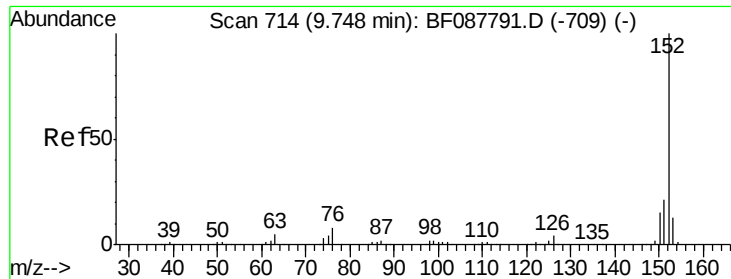
Tgt Ion:172 Resp: 69419
 Ion Ratio Lower Upper
 172 100
 171 34.3 28.6 43.0
 170 22.5 19.2 28.8



#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.03 min Scan# 651
 Delta R.T. -0.05 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

Tgt Ion:154 Resp: 580
 Ion Ratio Lower Upper
 154 100
 153 0.0 20.6 60.6#
 76 0.0 0.0 35.1





#48

Acenaphthylene

Concen: 4.67 ng

RT: 9.45 min Scan# 688

Delta R.T. -0.06 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

Instrument :

BNA_F

ClientSampleId :

PM-STA-1381(0-4)DL

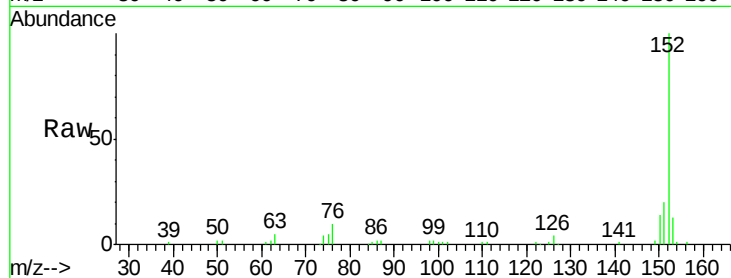
Tgt Ion:152 Resp: 77194

Ion Ratio Lower Upper

152 100

151 19.7 16.2 24.4

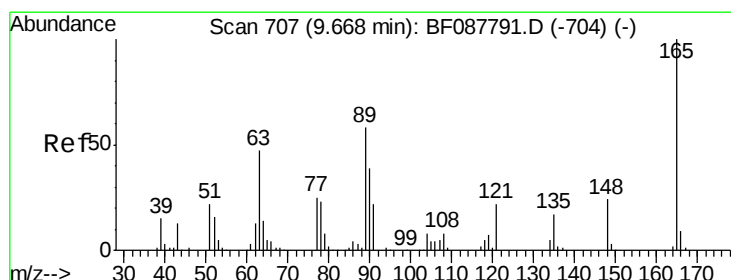
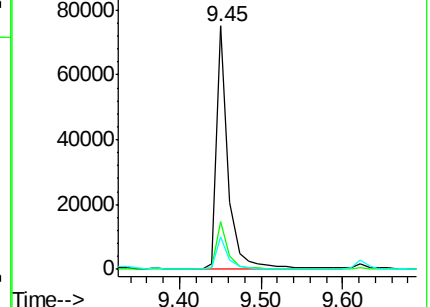
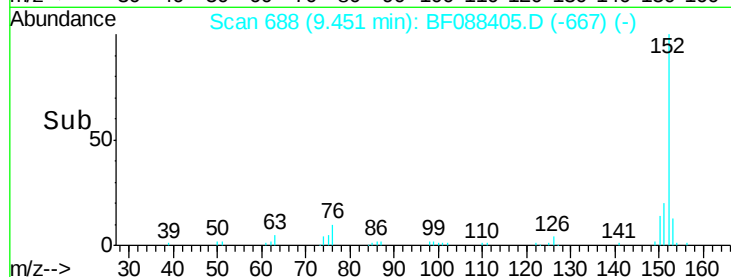
153 13.2 11.0 16.6



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: 7.61 ng

RT: 9.59 min Scan# 700

Delta R.T. 0.14 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

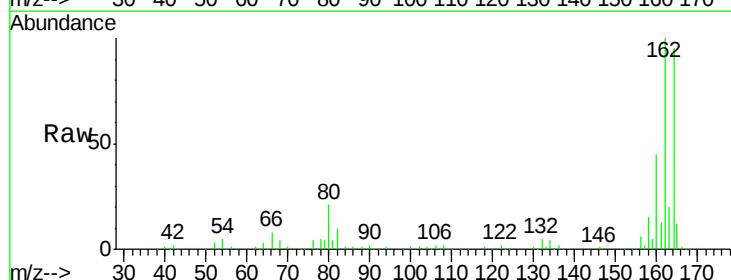
Tgt Ion:165 Resp: 20245

Ion Ratio Lower Upper

165 100

63 1.5 28.1 42.1#

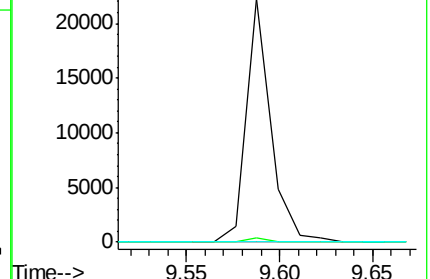
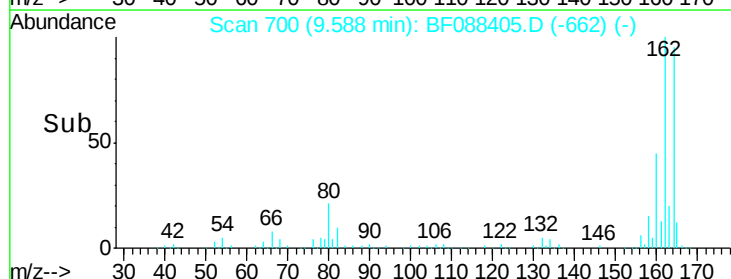
89 0.0 32.2 48.2#

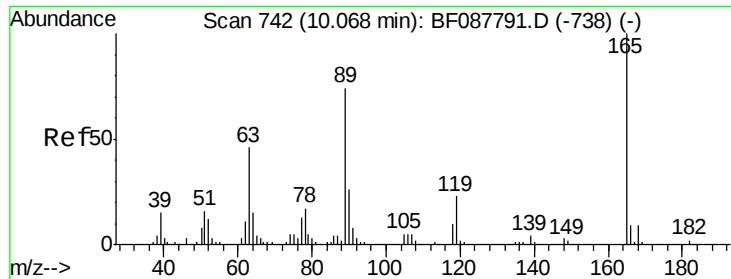


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

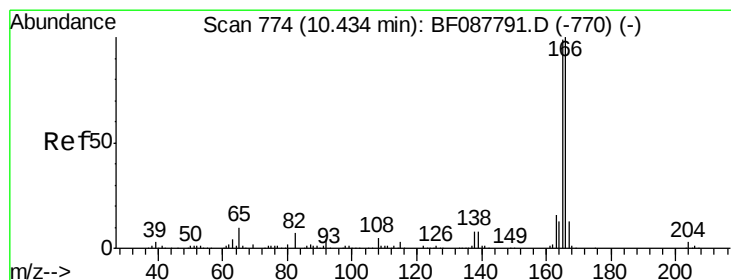
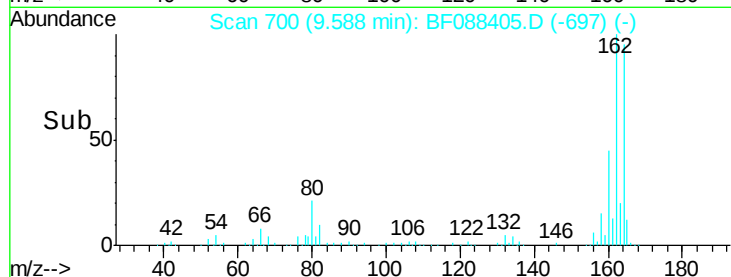
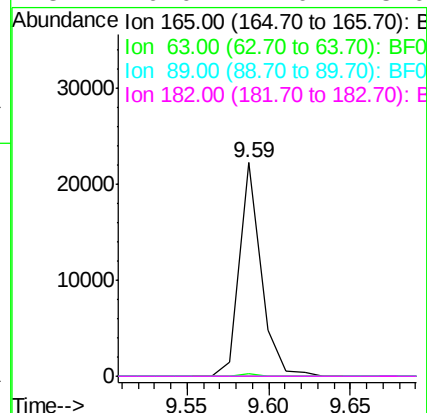
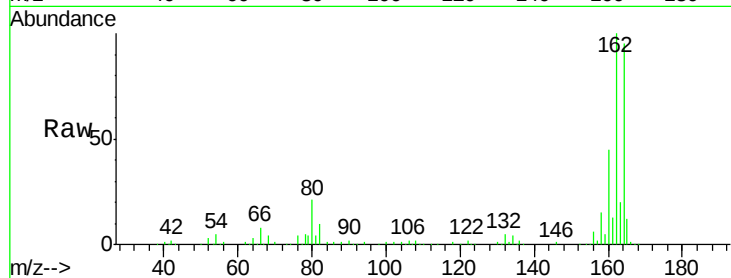




#56
2,4-Dinitrotoluene
Concen: 5.92 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.26 min
Lab File: BF088405.D
Acq: 26 Jun 2016 7:00

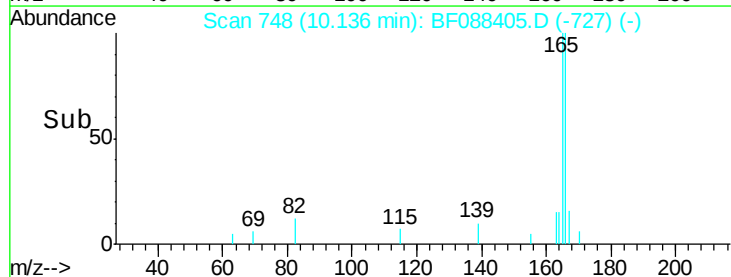
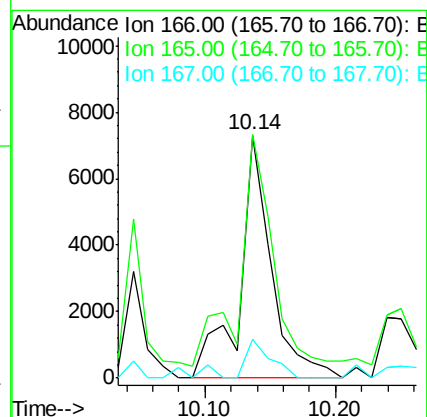
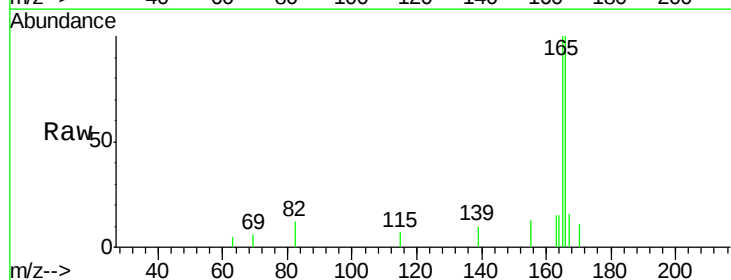
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ClientSampleId :
PM-STA-1381(0-4)DL

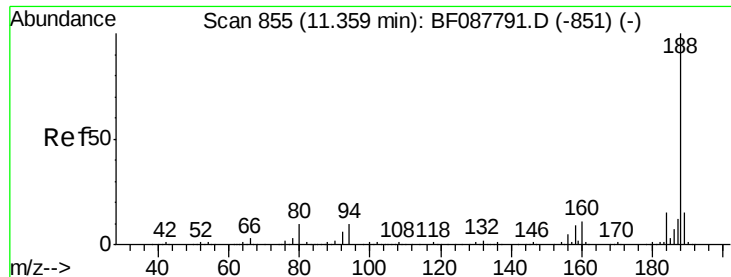
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.5	22.0	33.0#
89	0.0	41.1	61.7#
182	0.0	2.0	3.0#



#57
Fluorene
Concen: Below Cal
RT: 10.14 min Scan# 748
Delta R.T. -0.06 min
Lab File: BF088405.D
Acq: 26 Jun 2016 7:00

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.4	77.8	116.8
167	15.8	11.2	16.8

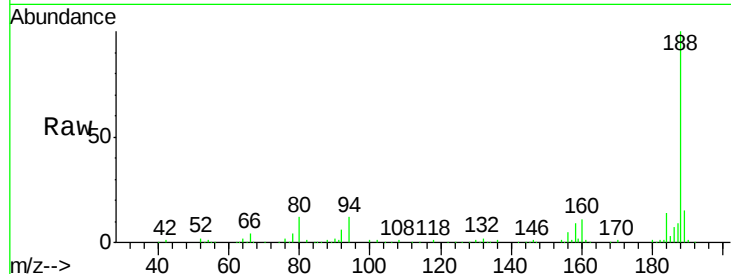




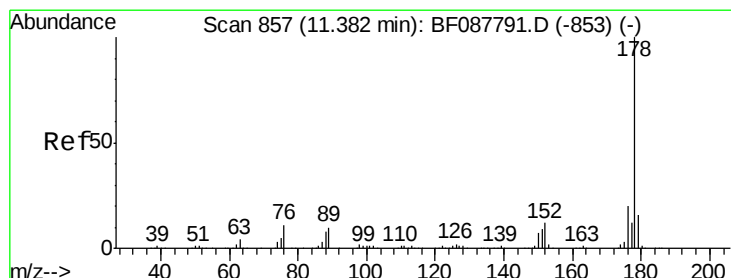
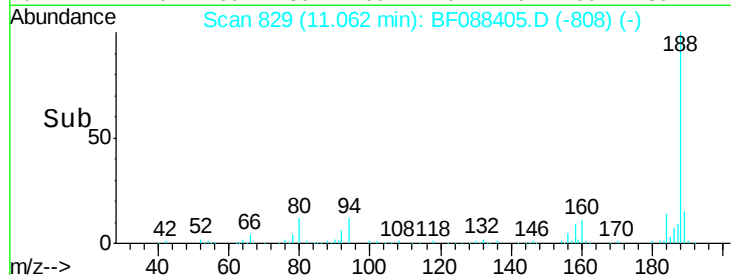
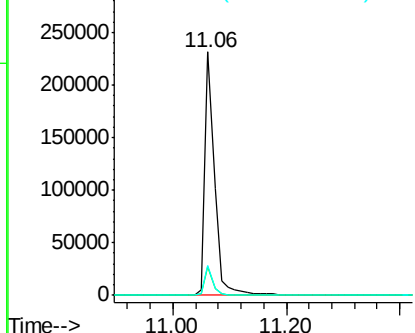
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.06 min Scan# 829
Delta R.T. -0.06 min
Lab File: BF088405.D
Acq: 26 Jun 2016 7:00

Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)DL

Tgt Ion:188 Resp: 263242
Ion Ratio Lower Upper
188 100
94 11.7 9.0 13.6
80 12.2 10.0 15.0

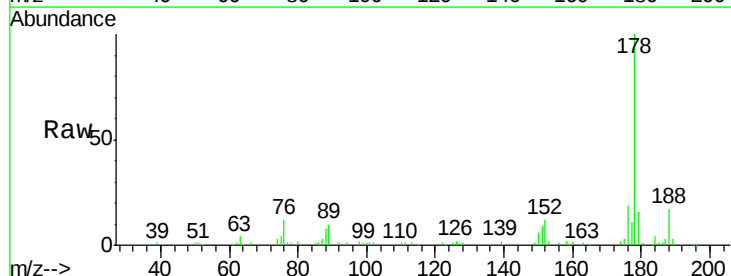


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

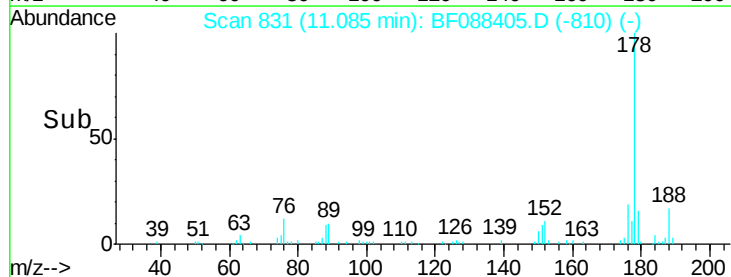
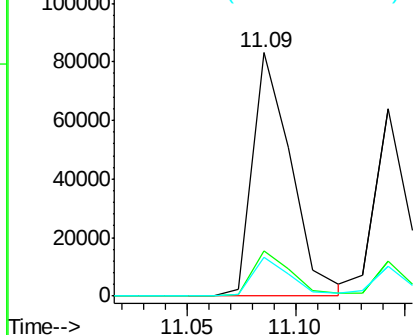


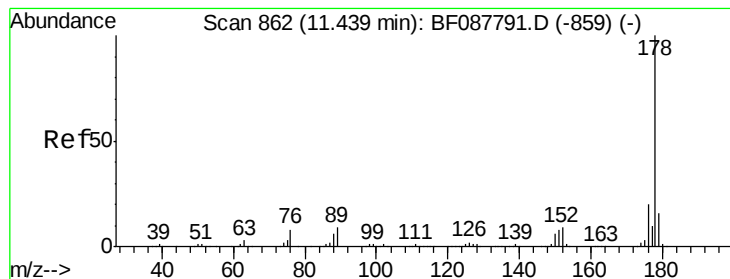
#70
Phenanthrene
Concen: 7.41 ng
RT: 11.09 min Scan# 831
Delta R.T. -0.06 min
Lab File: BF088405.D
Acq: 26 Jun 2016 7:00

Tgt Ion:178 Resp: 102382
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.6
179 15.9 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





#71

Anthracene

Concen: 5.79 ng

RT: 11.14 min Scan# 836

Delta R.T. -0.06 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

Instrument :

BNA_F

ClientSampleId :

PM-STA-1381(0-4)DL

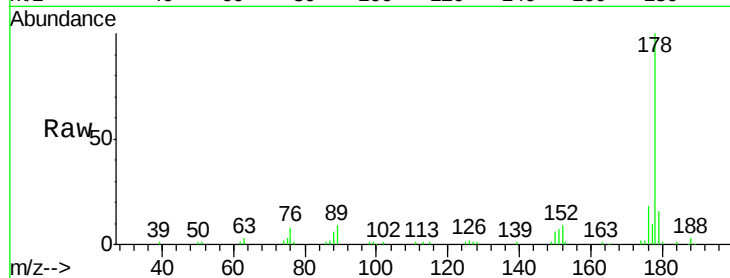
Tgt Ion:178 Resp: 80607

Ion Ratio Lower Upper

178 100

176 18.5 15.6 23.4

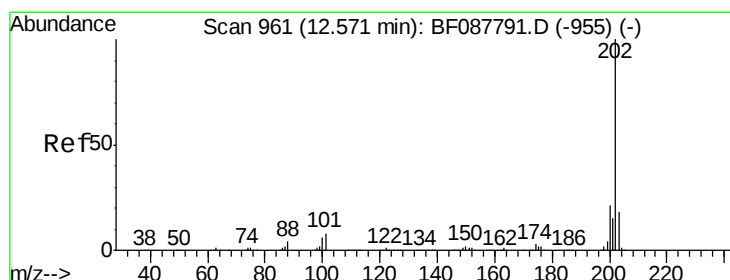
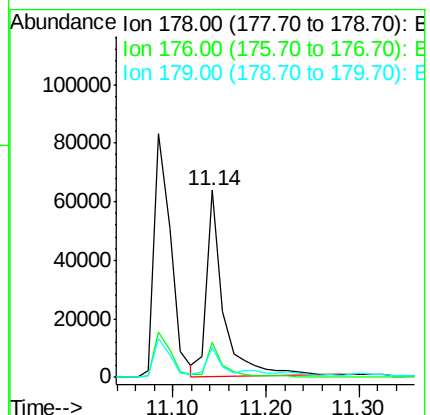
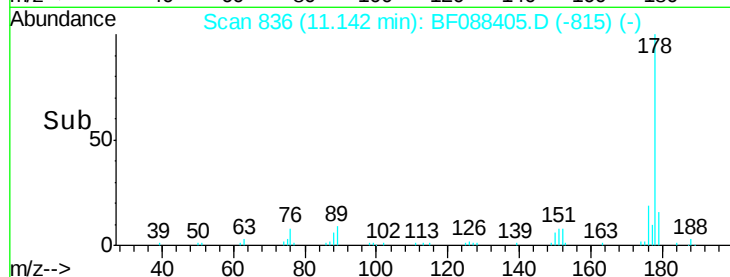
179 15.8 12.8 19.2



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: 30.31 ng

RT: 12.27 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

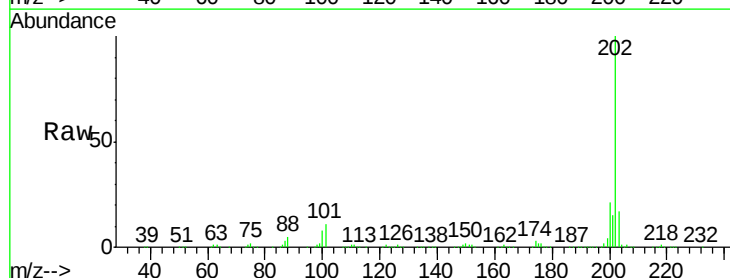
Tgt Ion:202 Resp: 441843

Ion Ratio Lower Upper

202 100

101 11.1 0.0 33.1

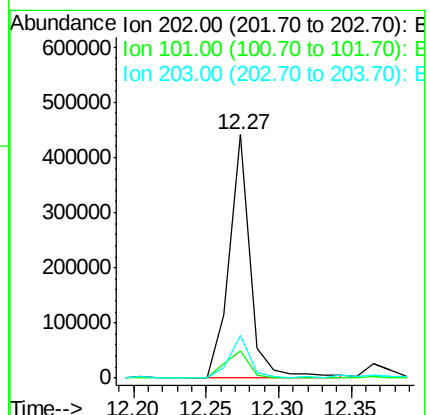
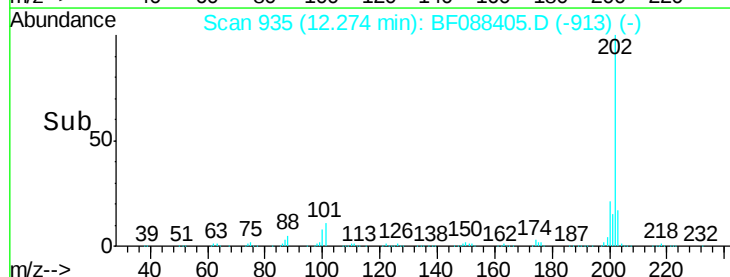
203 17.5 0.0 38.1

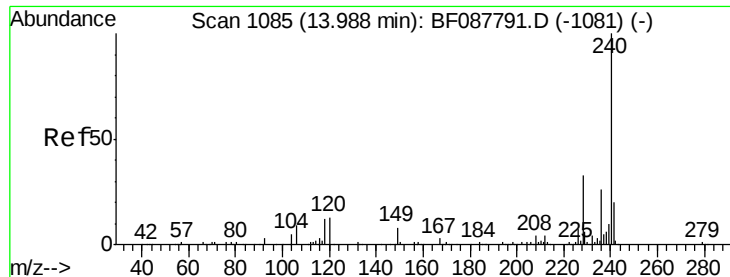


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.69 min Scan# 1059

Delta R.T. -0.06 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

Instrument :

BNA_F

ClientSampleId :

PM-STA-1381(0-4)DL

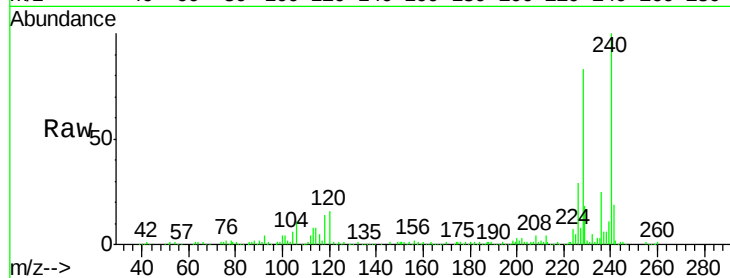
Tgt Ion:240 Resp: 197620

Ion Ratio Lower Upper

240 100

120 15.6 6.8 10.2#

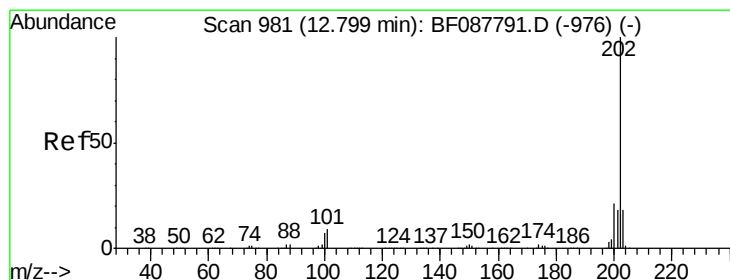
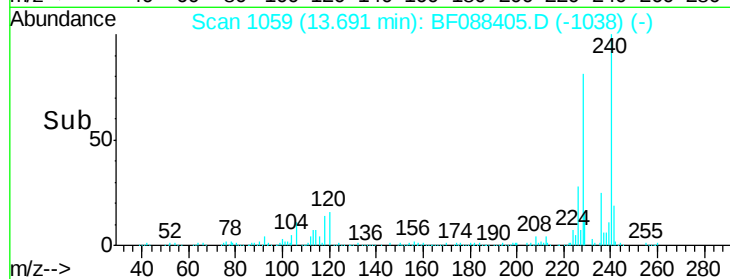
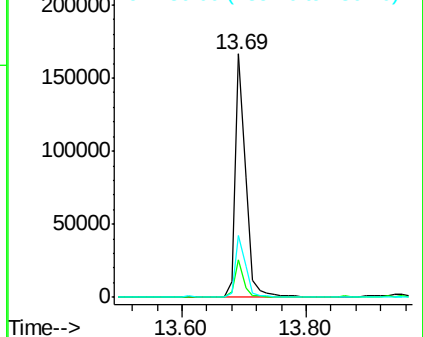
236 25.2 20.2 30.2



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: 31.13 ng

RT: 12.50 min Scan# 955

Delta R.T. -0.05 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

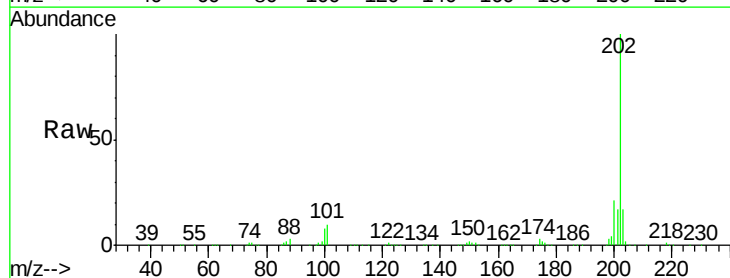
Tgt Ion:202 Resp: 456549

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

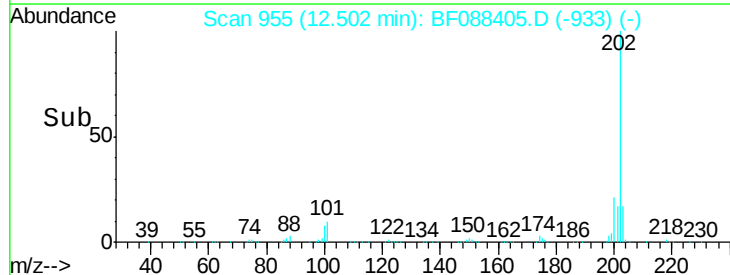
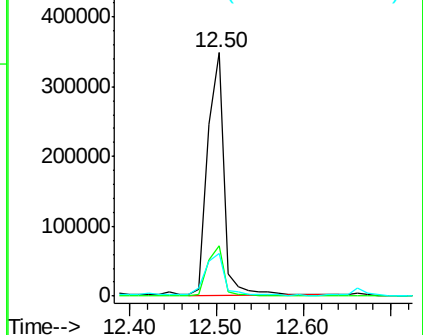
203 17.4 14.5 21.7

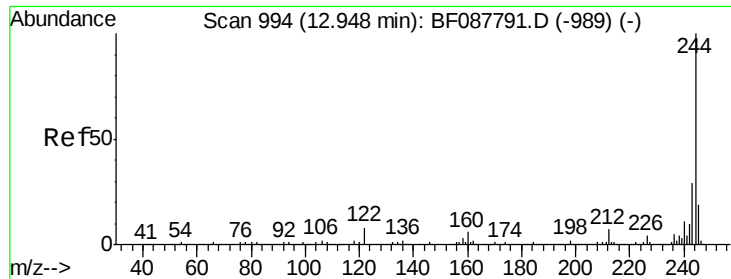


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

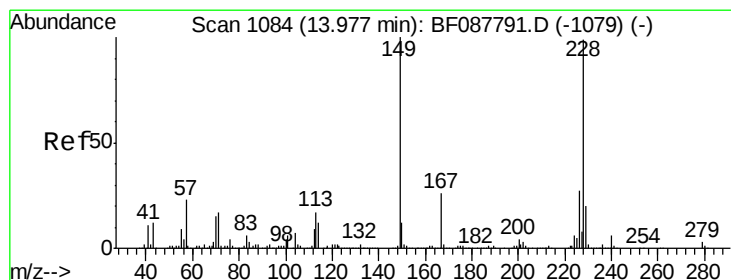
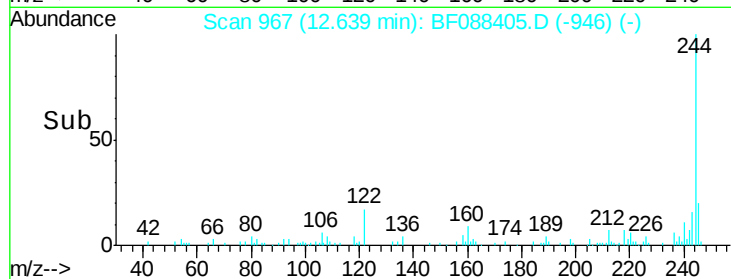
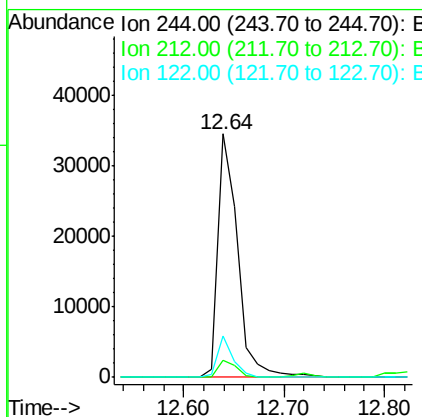
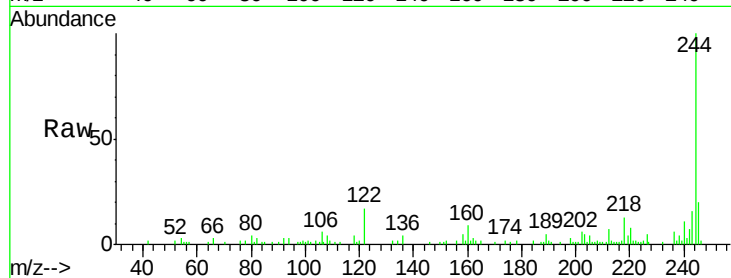




#78
 Terphenyl-d14
 Concen: 5.44 ng
 RT: 12.64 min Scan# 967
 Delta R.T. -0.06 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

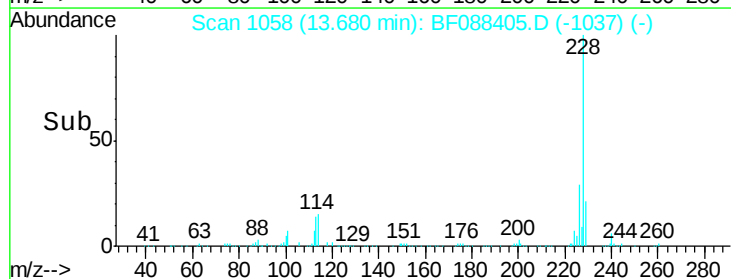
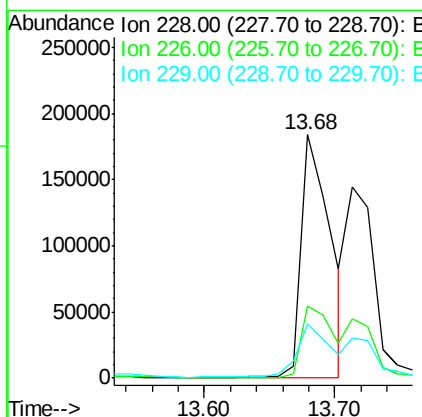
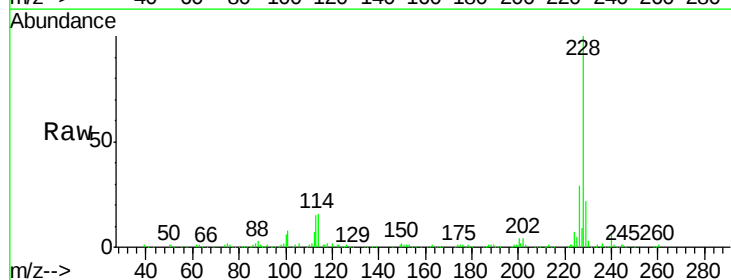
Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)DL

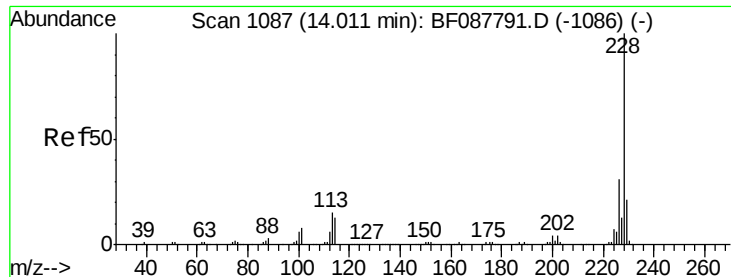
Tgt Ion:244 Resp: 47223
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.0 9.0
 122 17.2 11.2 16.8#



#80
 Benzo(a)anthracene
 Concen: 25.25 ng
 RT: 13.68 min Scan# 1058
 Delta R.T. -0.06 min
 Lab File: BF088405.D
 Acq: 26 Jun 2016 7:00

Tgt Ion:228 Resp: 284300
 Ion Ratio Lower Upper
 228 100
 226 29.4 22.3 33.5
 229 22.1 16.0 24.0





#82

Chrysene

Concen: 26.83 ng

RT: 13.68 min Scan# 1058

Delta R.T. -0.09 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

Instrument :

BNA_F

ClientSampleId :

PM-STA-1381(0-4)DL

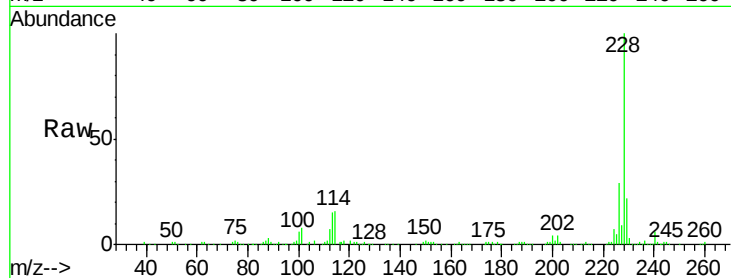
Tgt Ion: 228 Resp: 284300

Ion Ratio Lower Upper

228 100

226 29.4 25.4 38.2

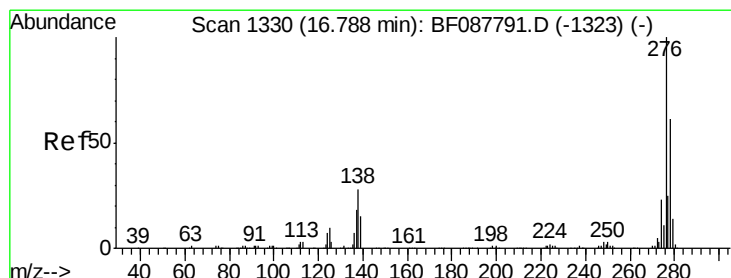
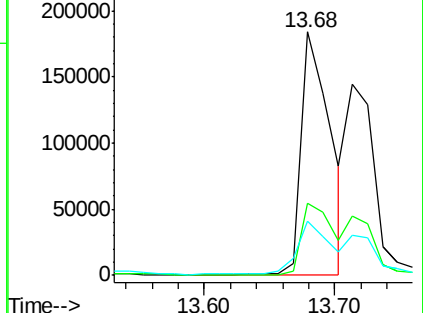
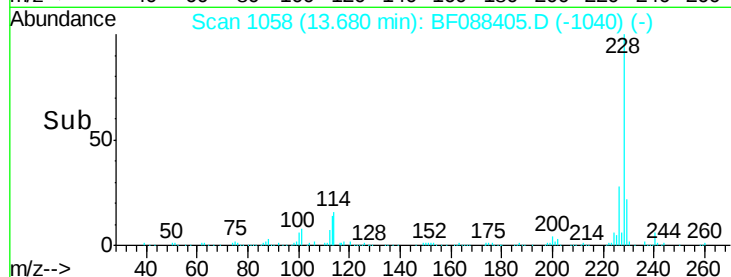
229 22.1 16.3 24.5



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: 8.38 ng

RT: 16.29 min Scan# 1286

Delta R.T. -0.08 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

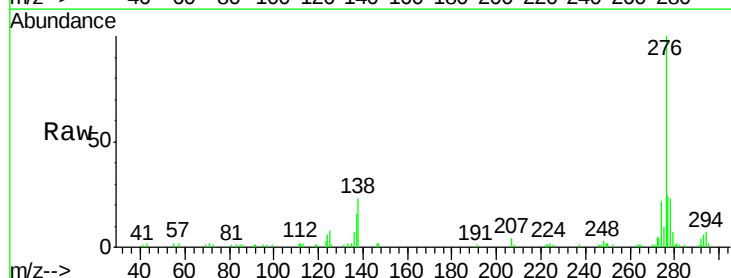
Tgt Ion: 276 Resp: 82448

Ion Ratio Lower Upper

276 100

138 27.2 0.0 0.0#

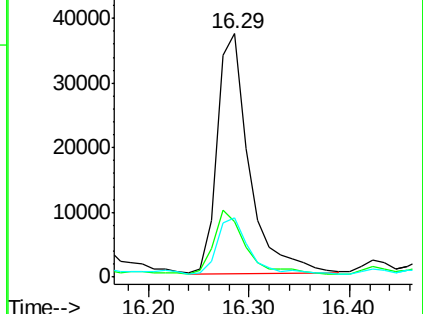
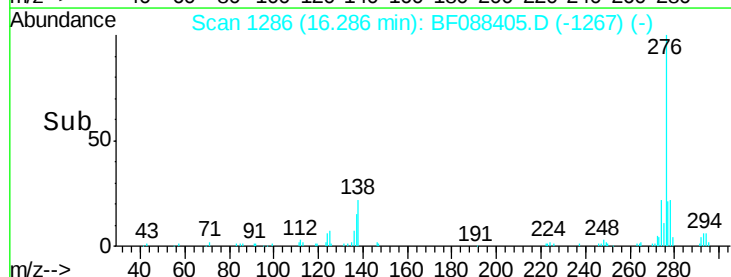
277 22.6 0.0 0.0#

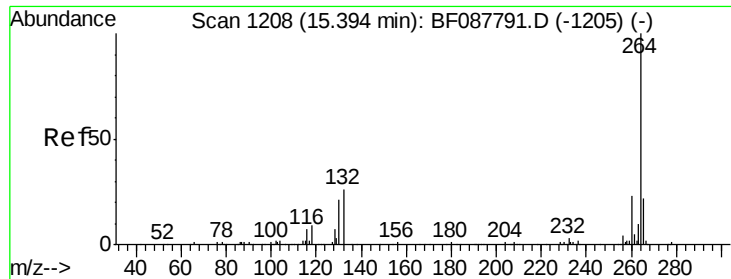


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

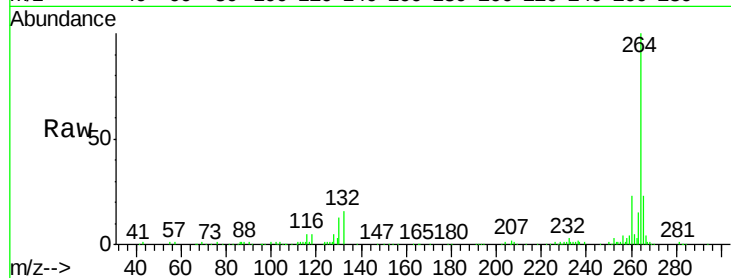




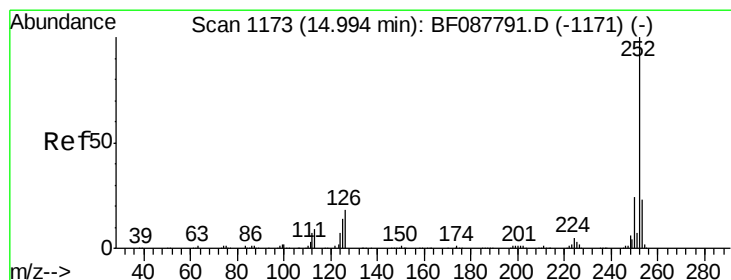
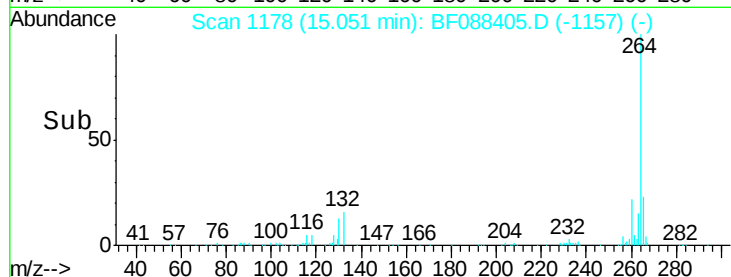
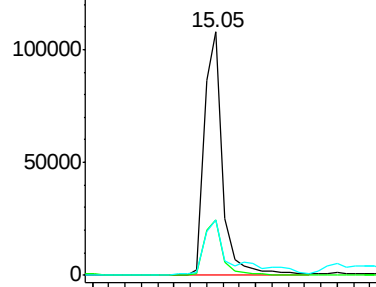
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.06 min
Lab File: BF088405.D
Acq: 26 Jun 2016 7:00

Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)DL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.2	28.8
265	22.8	16.9	25.3

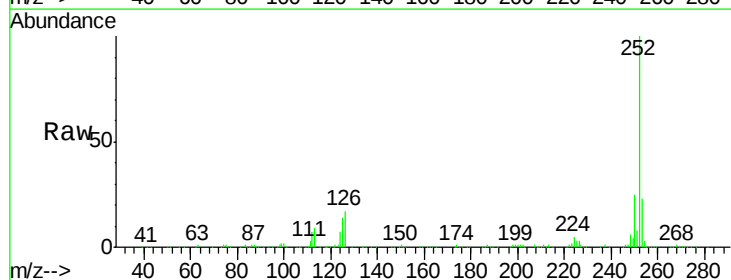


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

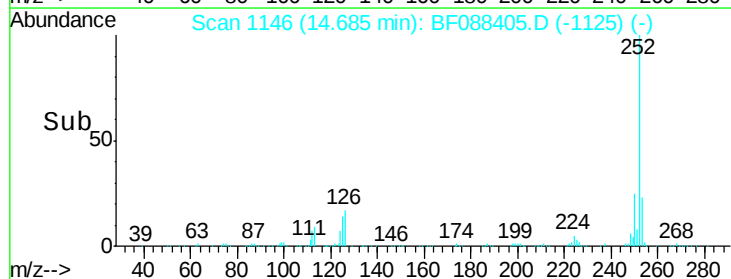
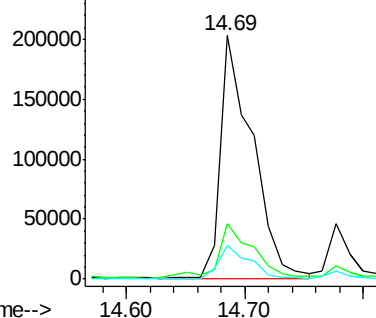


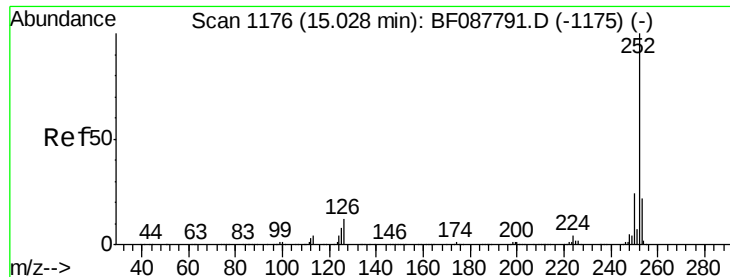
#87
Benzo(b)fluoranthene
Concen: 32.16 ng
RT: 14.69 min Scan# 1146
Delta R.T. -0.06 min
Lab File: BF088405.D
Acq: 26 Jun 2016 7:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	13.9	7.1	10.7#



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





#88

Benzo(k)fluoranthene

Concen: 42.63 ng

RT: 14.69 min Scan# 1146

Delta R.T. -0.08 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

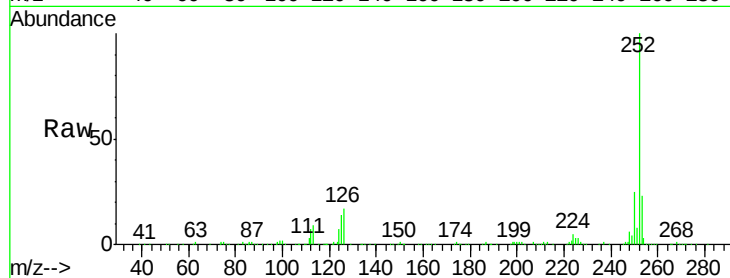
Instrument :

BNA_F

ClientSampleId :

PM-STA-1381(0-4)DL

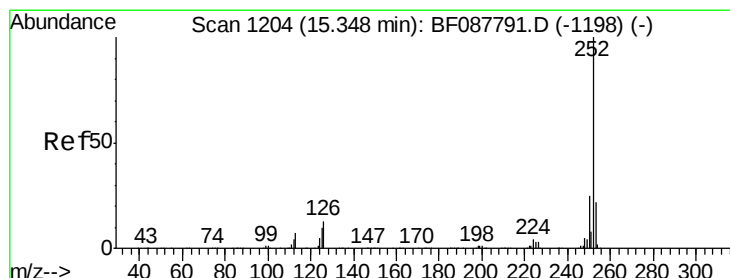
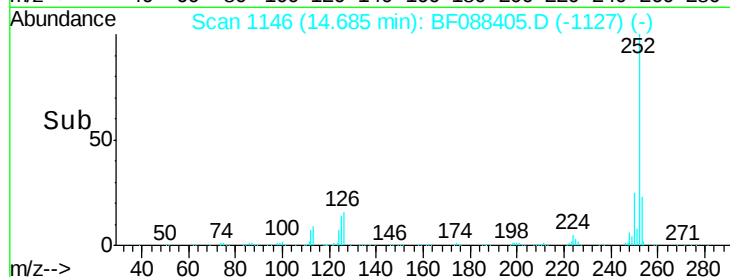
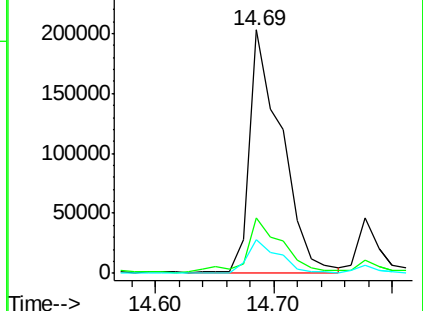
Tgt Ion:	252	Resp:	376035
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.0	27.0
125	13.9	11.2	16.8



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: 17.30 ng

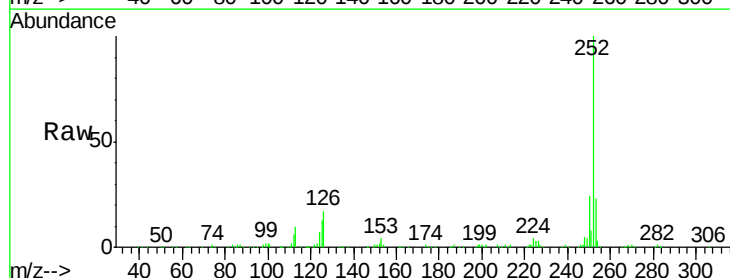
RT: 14.99 min Scan# 1173

Delta R.T. -0.06 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

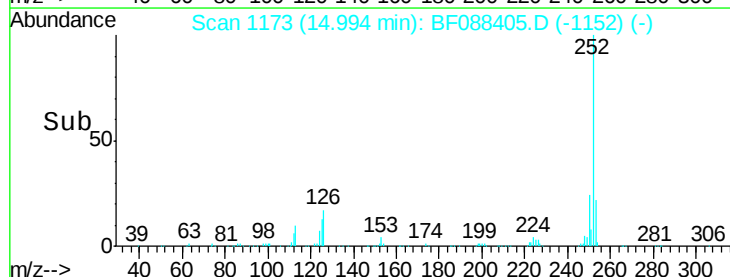
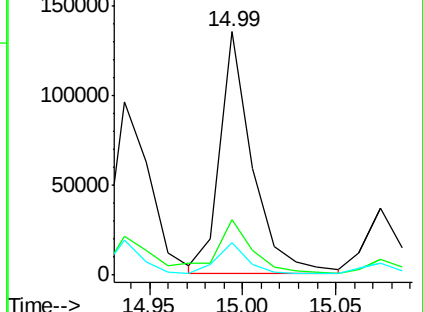
Tgt Ion:	252	Resp:	163676
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.9	26.9
125	13.5	12.5	18.7

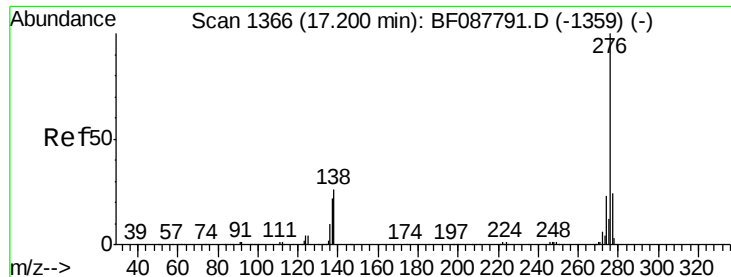


Abundance Ion 252.00 (251.70 to 252.70): E

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: 7.42 ng

RT: 16.65 min Scan# 1318

Delta R.T. -0.09 min

Lab File: BF088405.D

Acq: 26 Jun 2016 7:00

Instrument :

BNA_F

ClientSampleId :

PM-STA-1381(0-4)DL

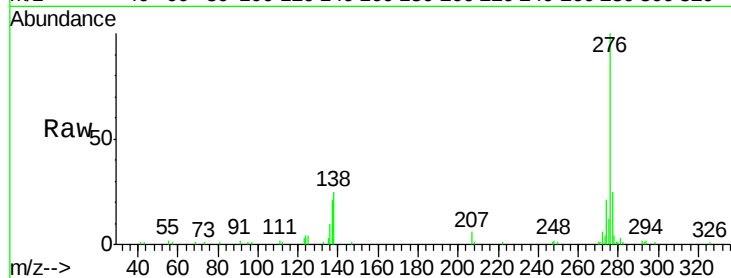
Tgt Ion: 276 Resp: 67062

Ion Ratio Lower Upper

276 100

277 25.2 18.9 28.3

138 25.2 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

