

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062516\
 Data File : BF088401.D
 Acq On : 26 Jun 2016 5:05
 Operator : UM/SJ
 Sample : H3598-13DL 5X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1388(0-4)DL

Quant Time: Jun 26 06:10:57 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	6.72	152	56306	20.00	ng	0.11
21) Naphthalene-d8	7.85	136	292163	20.00	ng	-0.05
38) Acenaphthene-d10	9.59	164	126638	20.00	ng	-0.06
63) Phenanthrene-d10	11.06	188	197186	20.00	ng	-0.06
75) Chrysene-d12	13.69	240	162396	20.00	ng	-0.06
86) Perylene-d12	15.04	264	127680	20.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.14	112	117133	35.56	ng	-0.03
7) Phenol-d6	6.23	99	142333	35.66	ng	-0.03
23) Nitrobenzene-d5	7.14	82	85966	17.18	ng	-0.03
41) 2,4,6-Tribromophenol	10.38	330	25745	19.25	ng	-0.06
44) 2-Fluorobiphenyl	8.92	172	181965	18.22	ng	-0.05
78) Terphenyl-d14	12.64	244	114639	16.06	ng	-0.06

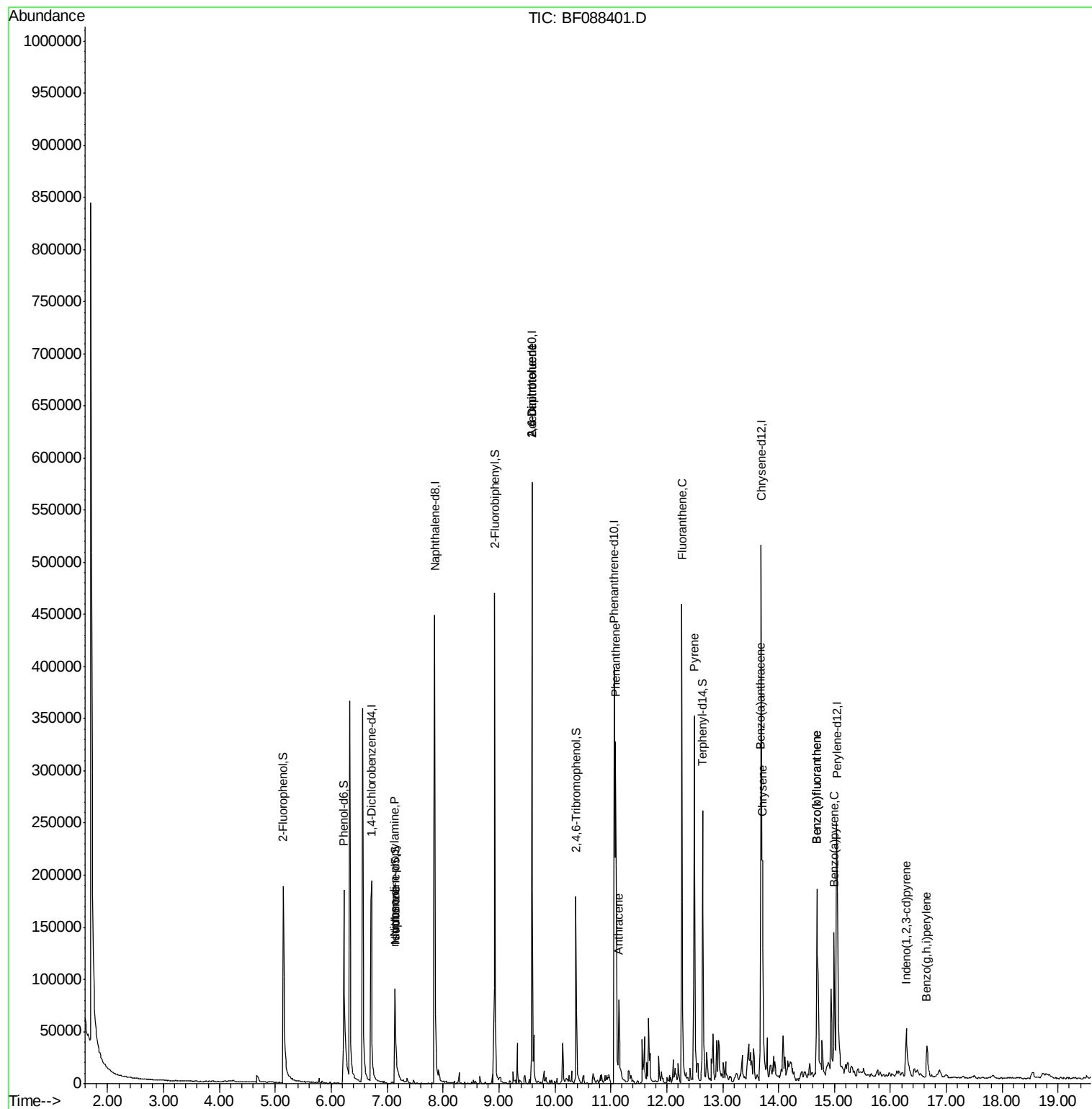
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.33	94	206	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.13	70	10565	4.14	ng	77
25) Isophorone	7.14	82	87872	9.48	ng	65
45) 1,1'-Biphenyl	9.03	154	621	Below Cal	#	43
50) 2,6-Dinitrotoluene	9.59	165	15980	7.61	ng	39
56) 2,4-Dinitrotoluene	9.59	165	15980	5.92	ng	37
57) Fluorene	10.14	166	18396	Below Cal		99
70) Phenanthrene	11.08	178	167896	16.23	ng	98
71) Anthracene	11.14	178	49296	4.72	ng	96
74) Fluoranthene	12.27	202	228629	20.94	ng	96
77) Pyrene	12.49	202	186965	15.51	ng	97
80) Benzo(a)anthracene	13.68	228	108379	11.71	ng	97
82) Chrysene	13.71	228	83356	9.57	ng	97
85) Indeno(1,2,3-cd)pyrene	16.29	276	31135	3.85	ng	# 100
87) Benzo(b)fluoranthene	14.69	252	131796	14.81	ng	# 95
88) Benzo(k)fluoranthene	14.69	252	131796	19.63	ng	99
89) Benzo(a)pyrene	14.99	252	65442	9.09	ng	98
91) Benzo(g,h,i)perylene	16.65	276	28906	4.20	ng	95

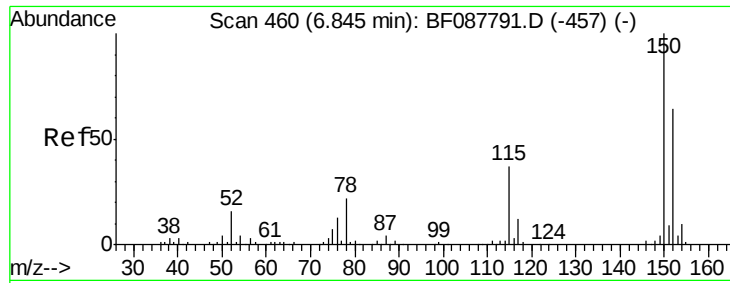
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.72 min Scan# 449

Delta R.T. 0.11 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

Instrument :

BNA_F

ClientSampleId :

PM-STA-1388(0-4)DL

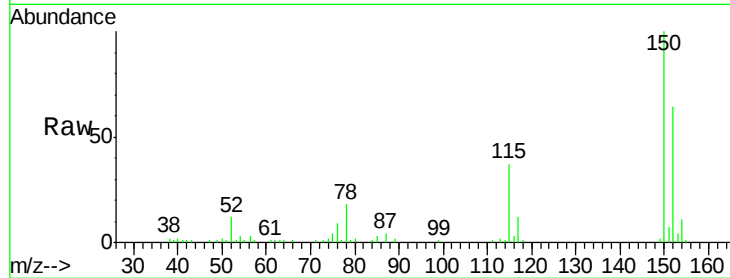
Tgt Ion:152 Resp: 56306

Ion Ratio Lower Upper

152 100

150 156.9 123.8 185.6

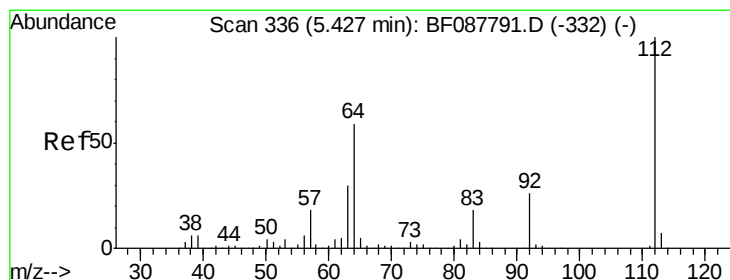
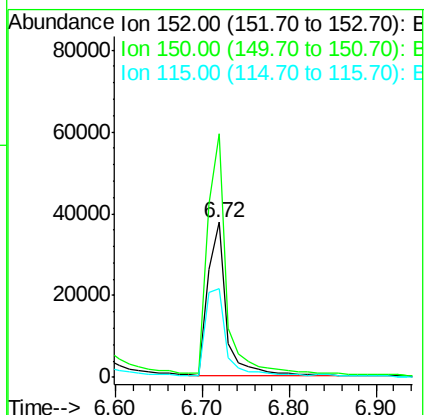
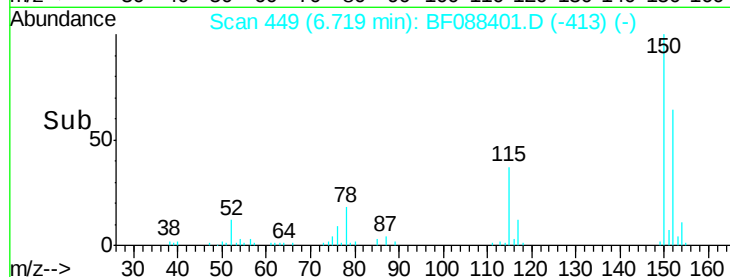
115 57.3 39.6 59.4



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: 35.56 ng

RT: 5.14 min Scan# 311

Delta R.T. -0.03 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

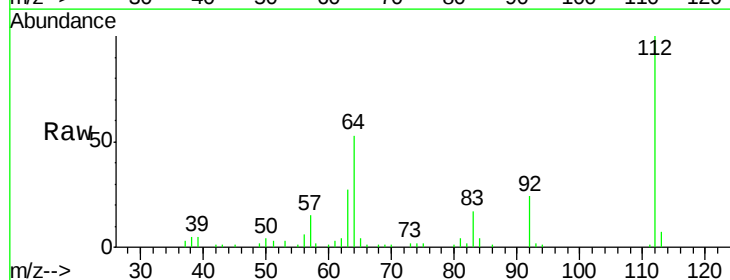
Tgt Ion:112 Resp: 117133

Ion Ratio Lower Upper

112 100

64 52.6 42.2 63.2

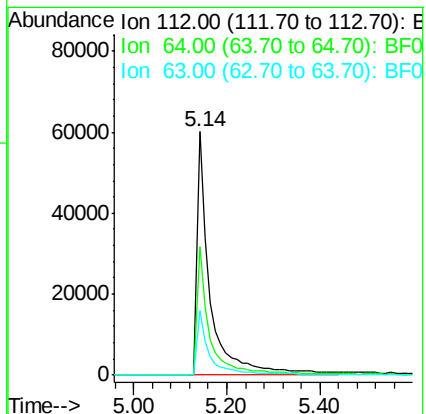
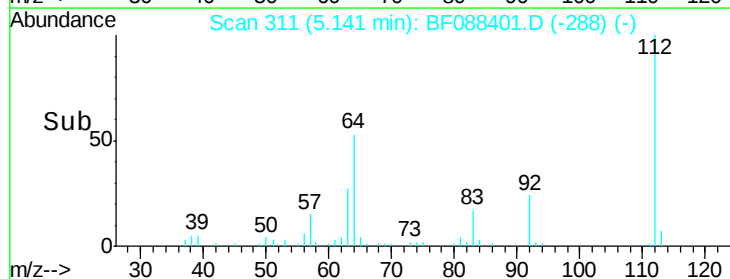
63 26.6 21.8 32.8

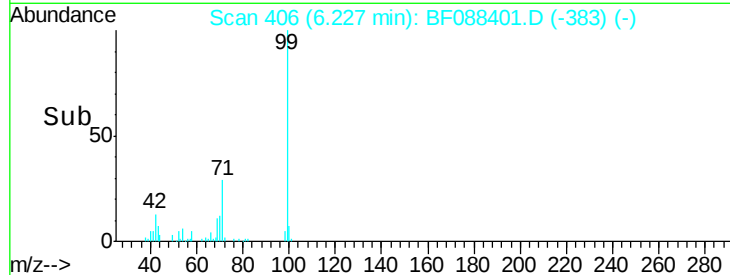
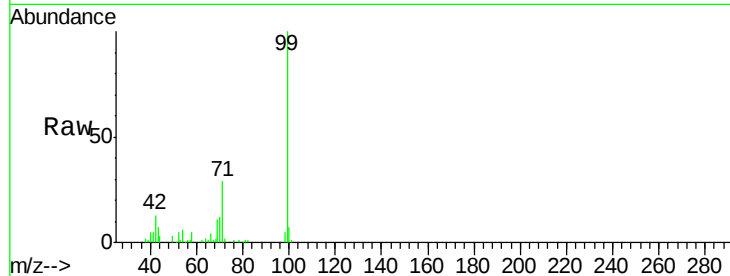


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

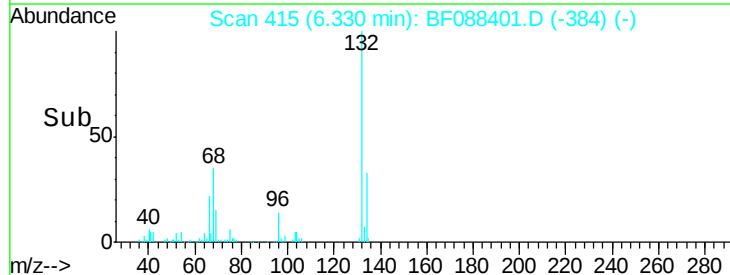
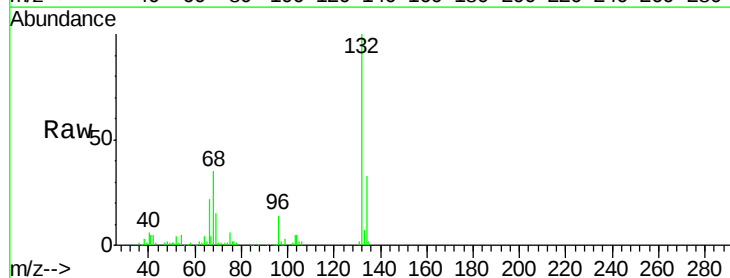
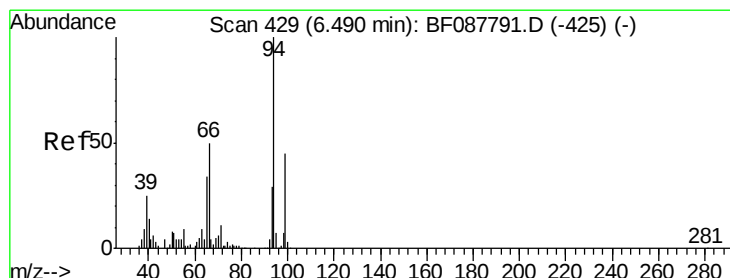
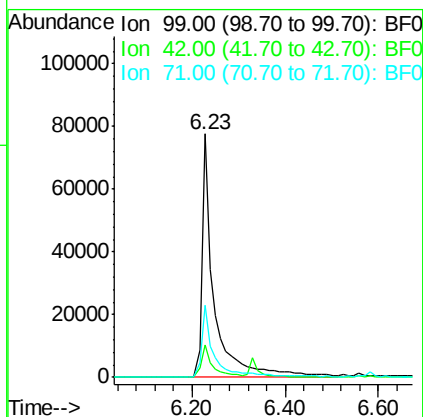




#7
Phenol-d6
Concen: 35.66 ng
RT: 6.23 min Scan# 406
Delta R.T. -0.03 min
Lab File: BF088401.D
Acq: 26 Jun 2016 5:05

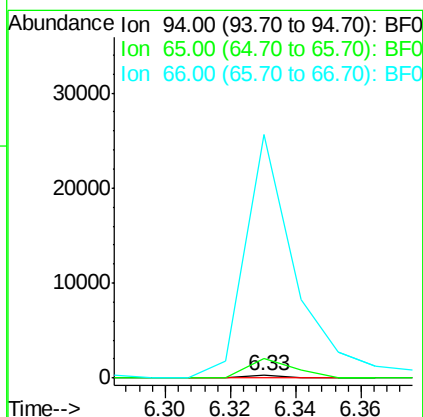
Tgt Ion	Ratio	Lower	Upper
99	100		
42	13.3	12.2	18.2
71	29.5	23.4	35.0

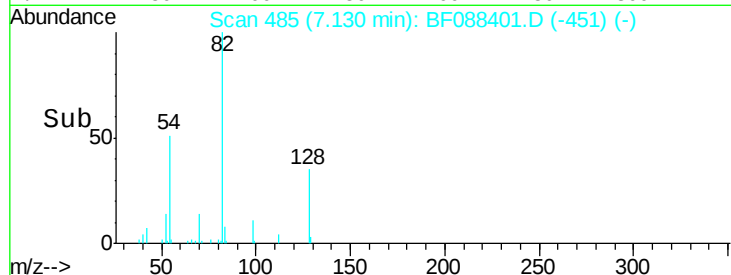
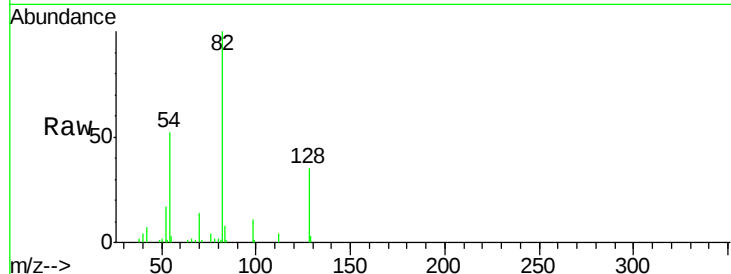
Instrument :
BNA_F
ClientSampleId :
PM-STA-1388(0-4)DL



#10
Phenol
Concen: Below Cal
RT: 6.33 min Scan# 415
Delta R.T. 0.06 min
Lab File: BF088401.D
Acq: 26 Jun 2016 5:05

Tgt Ion	Ratio	Lower	Upper
94	100		
65	693.0	5.9	45.9#
66	8513.0	14.0	54.0#

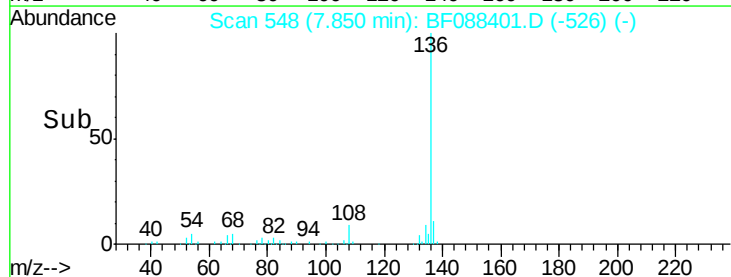
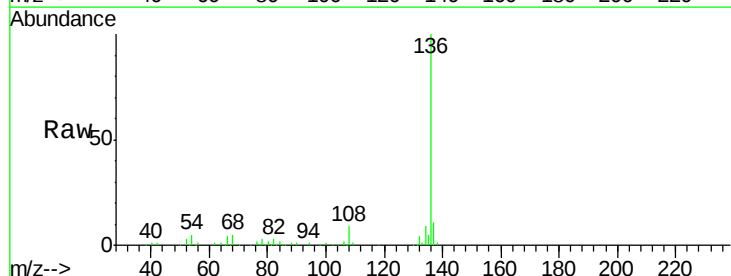
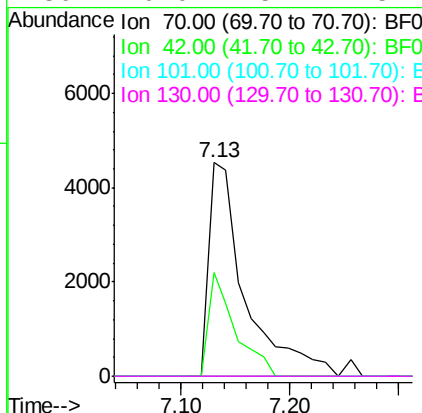




#19
n-Nitroso-di-n-propylamine
Concen: 4.14 ng
RT: 7.13 min Scan# 485
Delta R.T. 0.09 min
Lab File: BF088401.D
Acq: 26 Jun 2016 5:05

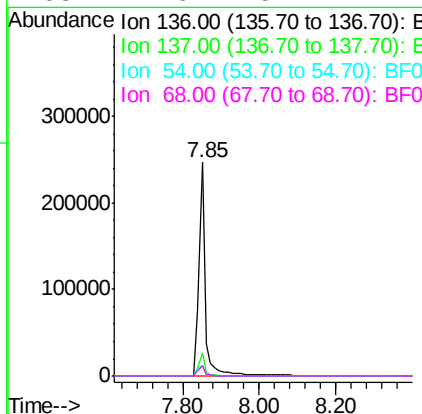
Instrument :
BNA_F
ClientSampleId :
PM-STA-1388(0-4)DL

Tgt Ion: 70 Resp: 10565
Ion Ratio Lower Upper
70 100
42 48.7 49.6 74.4#
101 0.0 7.1 10.7#
130 0.0 15.4 23.2#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.85 min Scan# 548
Delta R.T. -0.05 min
Lab File: BF088401.D
Acq: 26 Jun 2016 5:05

Tgt Ion: 136 Resp: 292163
Ion Ratio Lower Upper
136 100
137 10.6 9.1 13.7
54 5.0 6.6 10.0#
68 4.6 5.1 7.7#

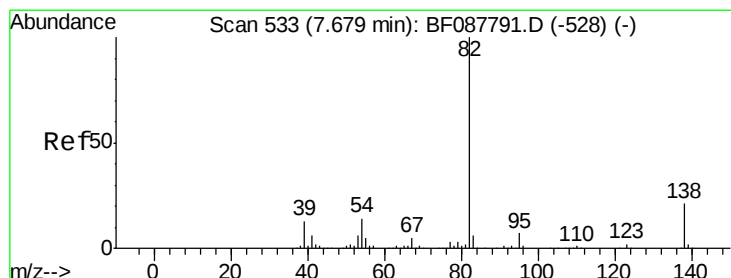
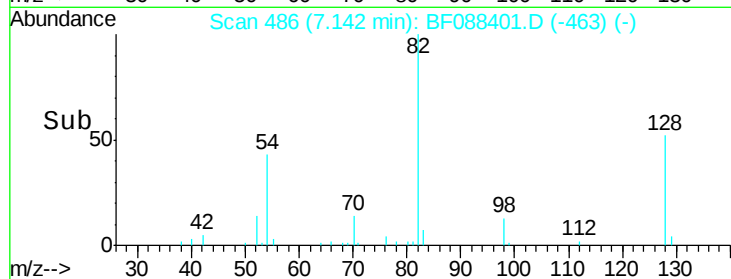
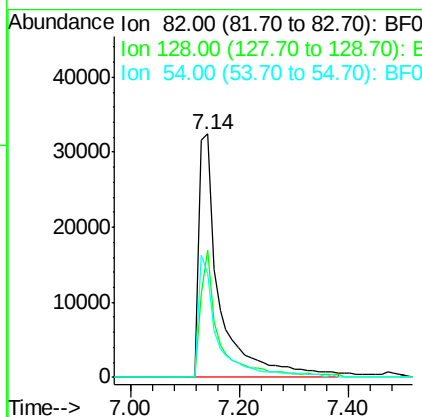
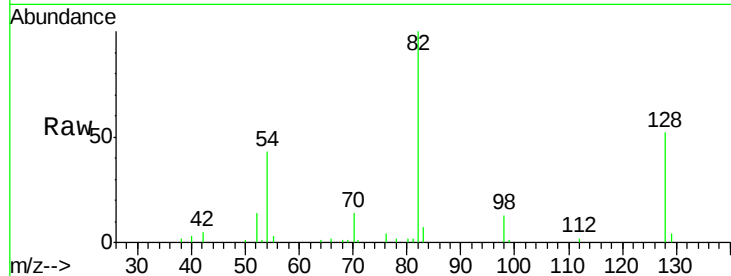




#23
 Nitrobenzene-d5
 Concen: 17.18 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.03 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

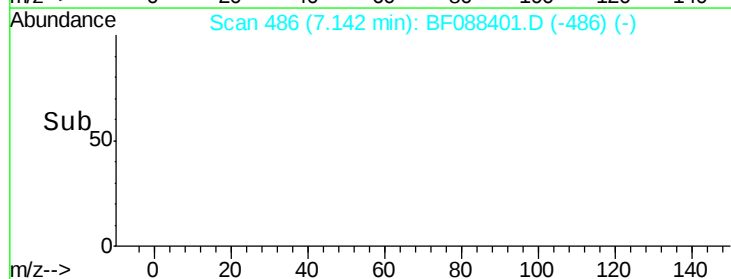
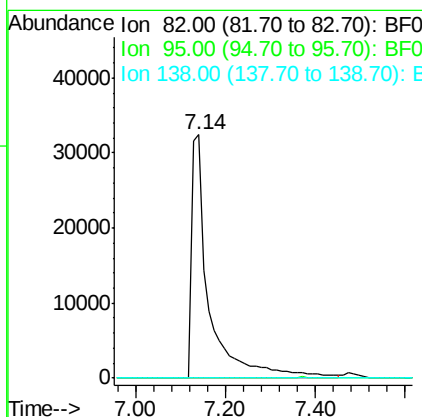
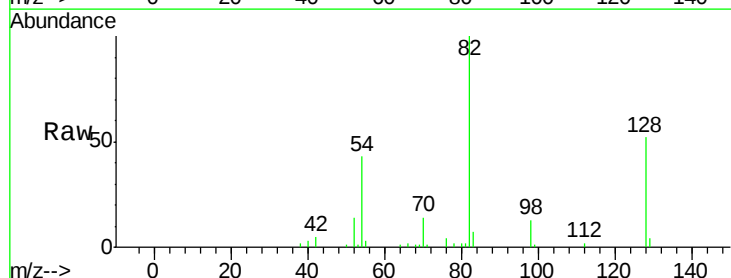
Instrument :
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 ClientSampleId :
 PM-STA-1388(0-4)DL

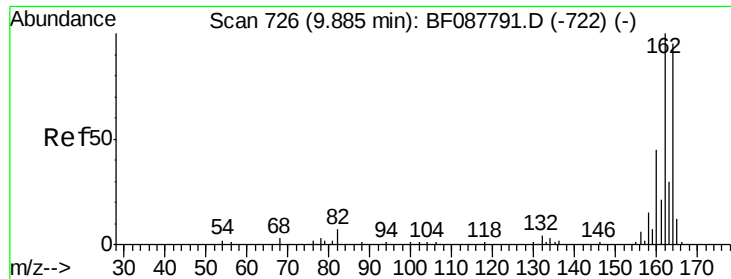
Tgt Ion: 82 Resp: 85966
 Ion Ratio Lower Upper
 82 100
 128 52.2 35.9 53.9
 54 42.8 40.9 61.3



#25
 Isophorone
 Concen: 9.48 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.30 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

Tgt Ion: 82 Resp: 87872
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.4 8.2#
 138 0.0 14.6 21.8#

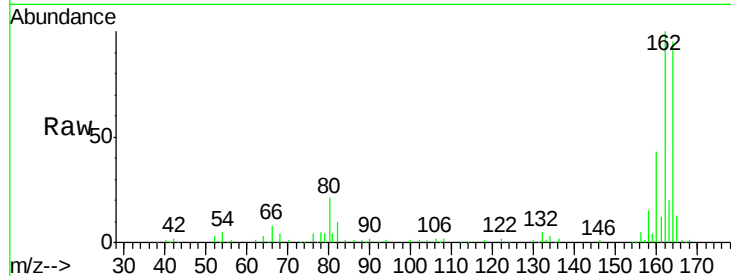




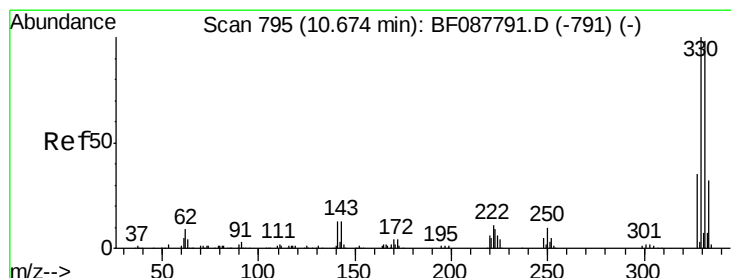
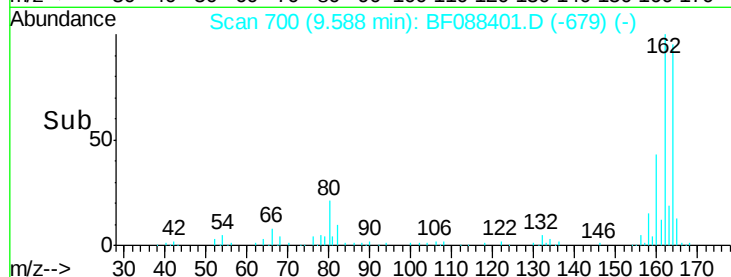
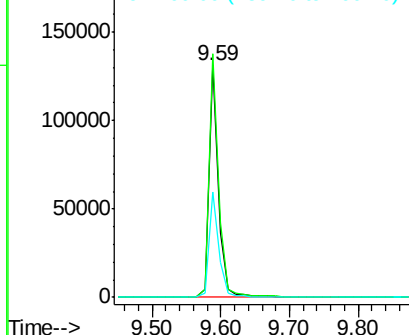
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.59 min Scan# 700
 Delta R.T. -0.06 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1388(0-4)DL

Tgt Ion:164 Resp: 126638
 Ion Ratio Lower Upper
 164 100
 162 105.1 85.4 128.2
 160 45.6 39.5 59.3

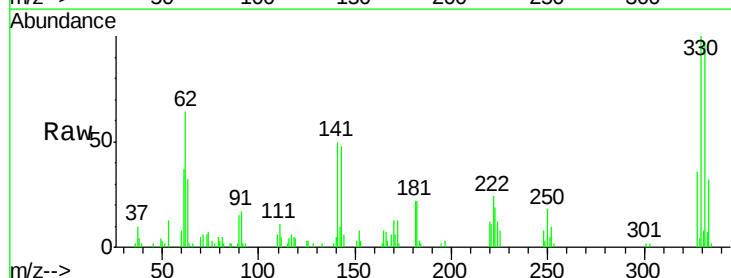


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

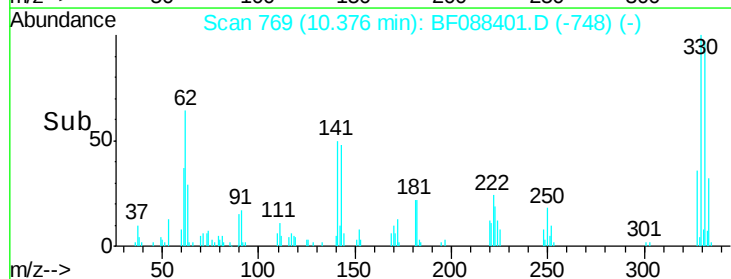
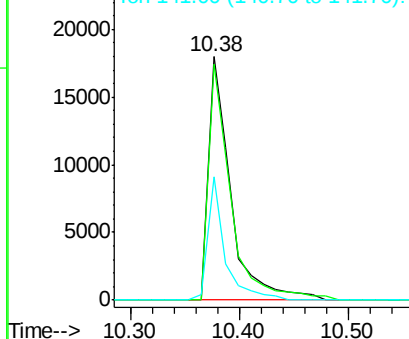


#41
 2,4,6-Tribromophenol
 Concen: 19.25 ng
 RT: 10.38 min Scan# 769
 Delta R.T. -0.06 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

Tgt Ion:330 Resp: 25745
 Ion Ratio Lower Upper
 330 100
 332 97.2 0.0 0.0#
 141 38.9 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

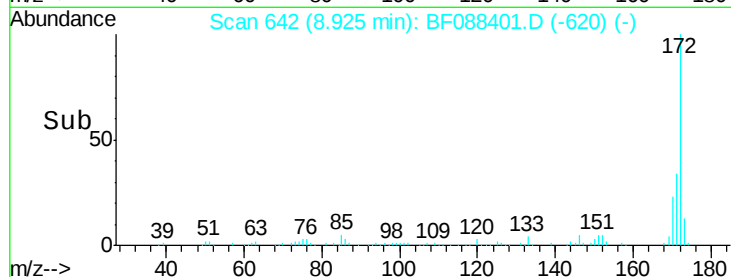
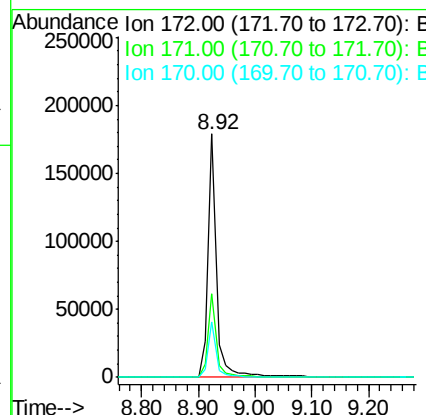
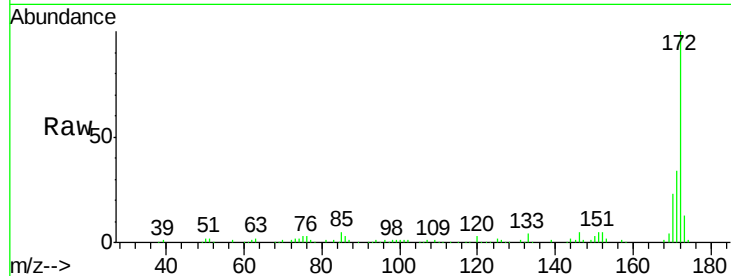




#44
 2-Fluorobiphenyl
 Concen: 18.22 ng
 RT: 8.92 min Scan# 642
 Delta R.T. -0.05 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

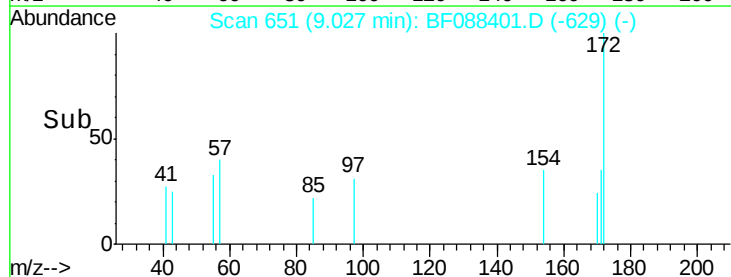
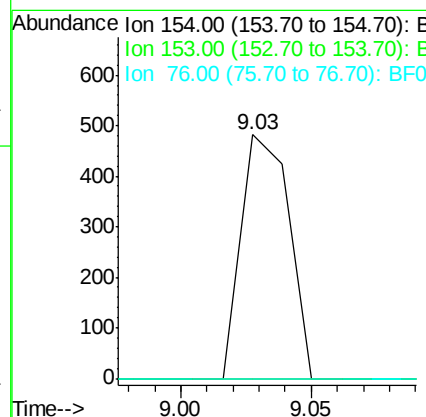
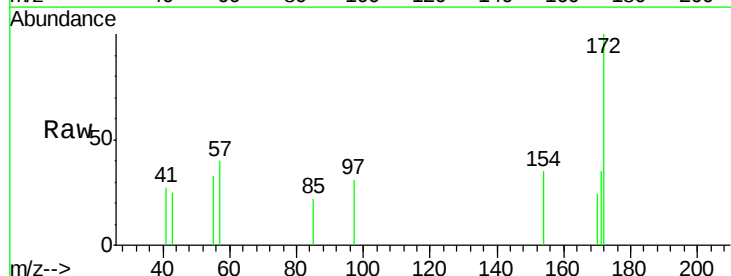
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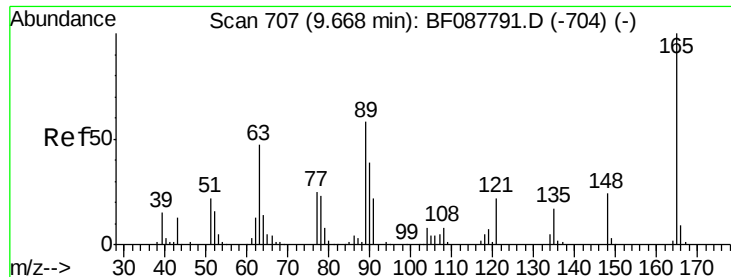
Tgt Ion:172 Resp: 181965
 Ion Ratio Lower Upper
 172 100
 171 34.3 28.6 43.0
 170 22.6 19.2 28.8



#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.03 min Scan# 651
 Delta R.T. -0.05 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

Tgt Ion:154 Resp: 621
 Ion Ratio Lower Upper
 154 100
 153 0.0 20.6 60.6#
 76 0.0 0.0 35.1

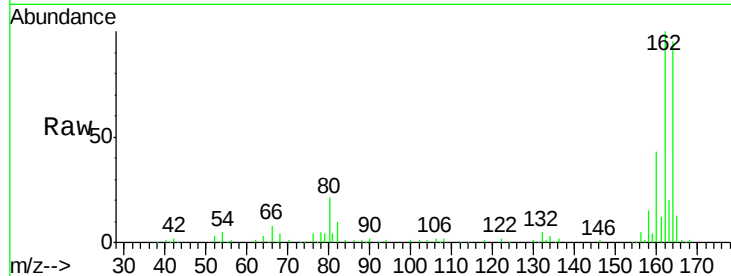




#50
 2,6-Dinitrotoluene
 Concen: 7.61 ng
 RT: 9.59 min Scan# 700
 Delta R.T. 0.14 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

Instrument :
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 PM-STA-1388(0-4)DL

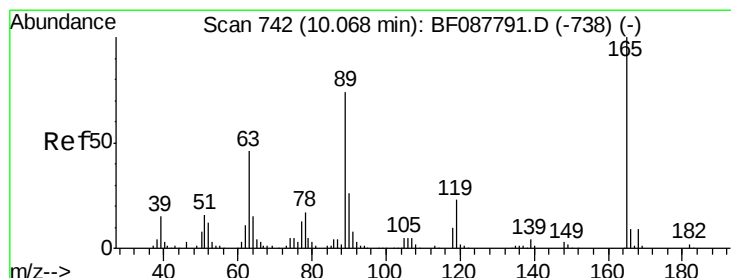
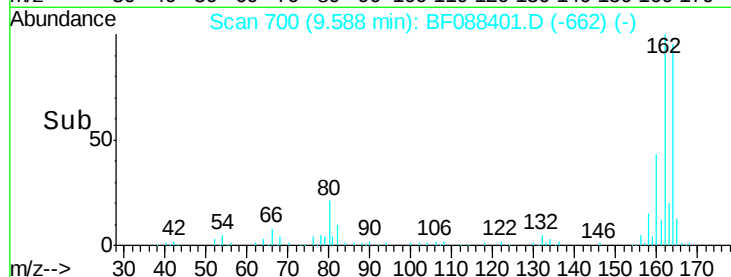
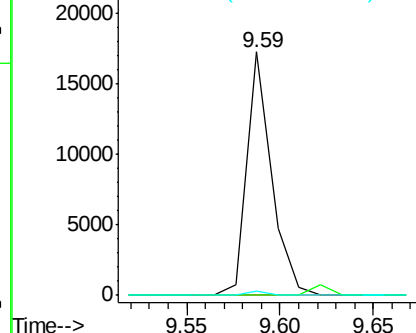
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	28.1	42.1#
89	1.8	32.2	48.2#



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: BF088401.D
 Acq: 26 Jun 2016 5:05

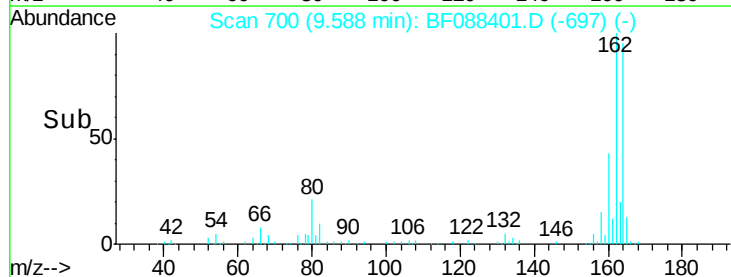
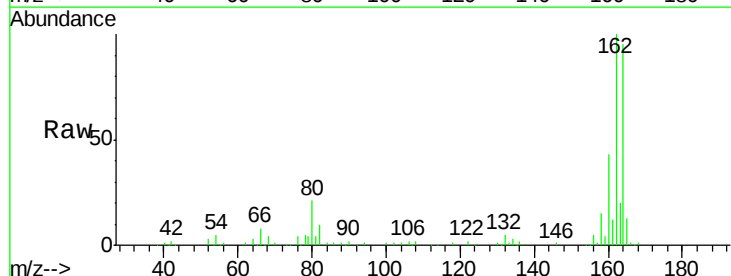
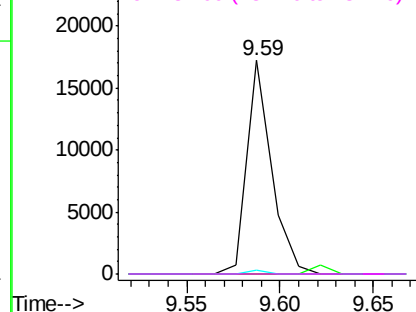
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.0	33.0#
89	1.8	41.1	61.7#
182	0.0	2.0	3.0#

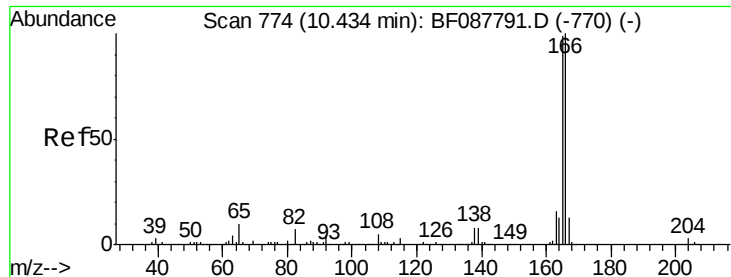
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: Below Cal

RT: 10.14 min Scan# 748

Delta R.T. -0.06 min

Lab File: BF088401.D

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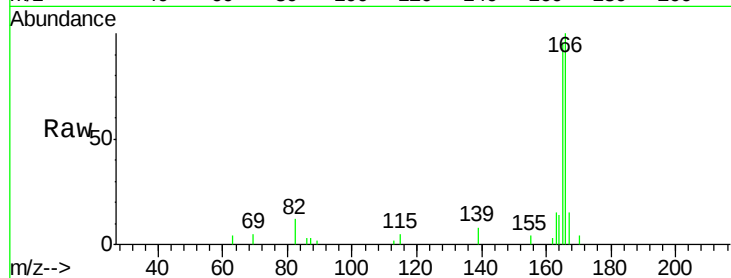
Tgt Ion:166 Resp: 18396

Ion Ratio Lower Upper

166 100

165 96.4 77.8 116.8

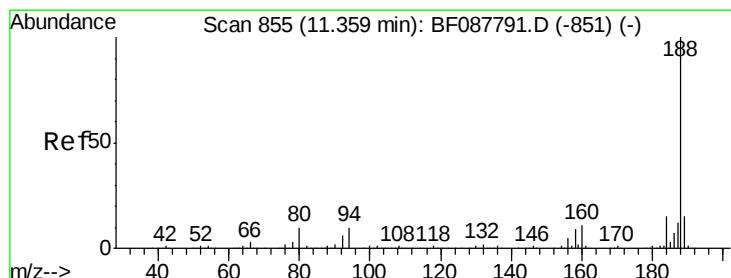
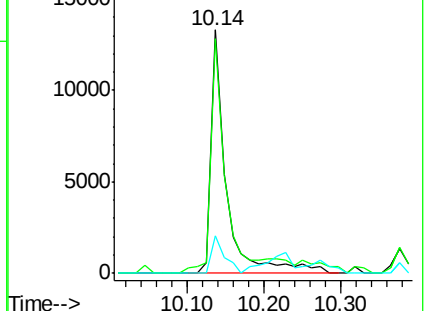
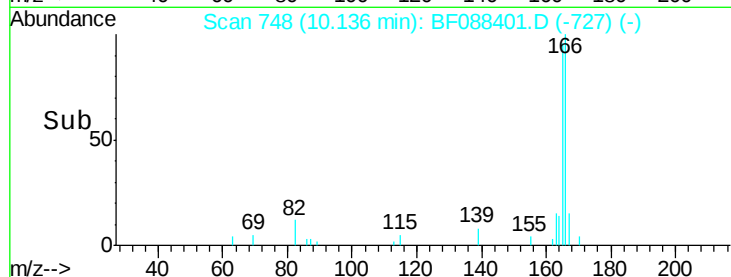
167 15.2 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.06 min Scan# 829

Delta R.T. -0.06 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

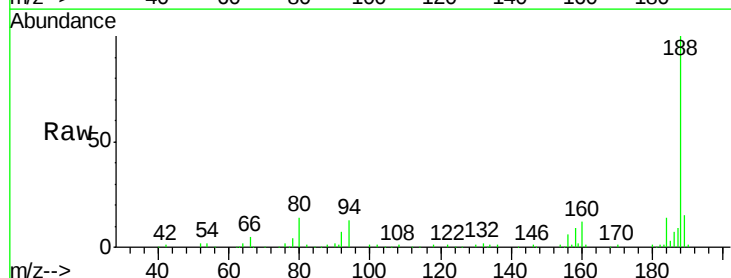
Tgt Ion:188 Resp: 197186

Ion Ratio Lower Upper

188 100

94 12.9 9.0 13.6

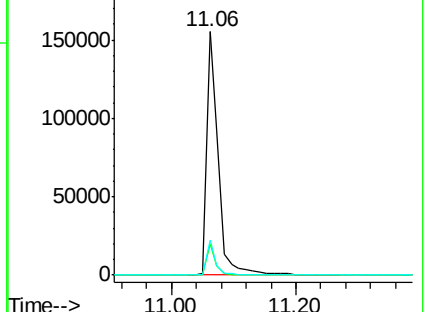
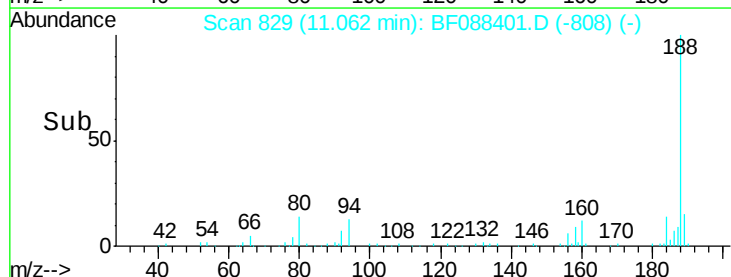
80 14.1 10.0 15.0

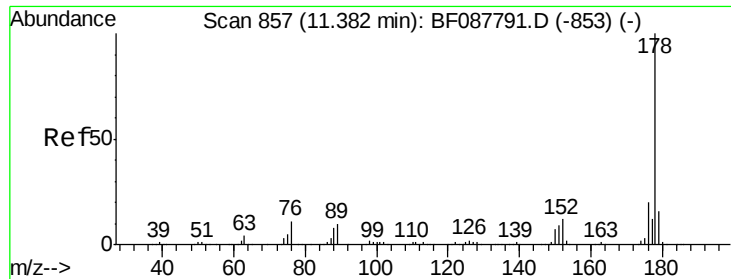


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

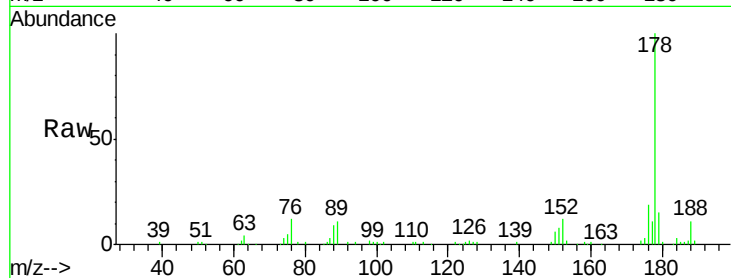




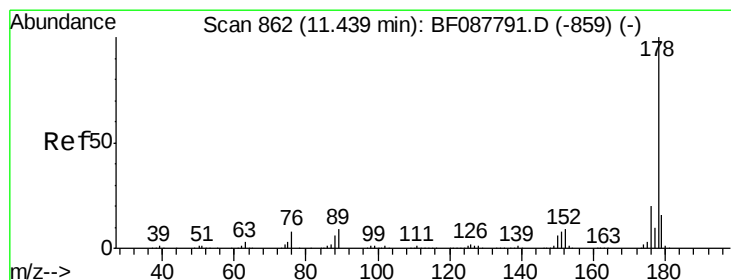
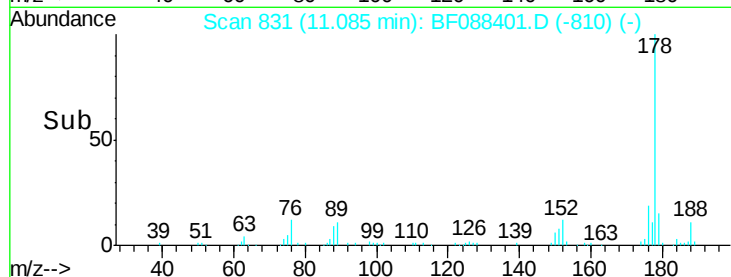
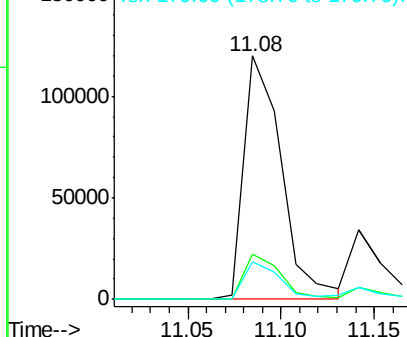
#70
Phenanthrene
Concen: 16.23 ng
RT: 11.08 min Scan# 831
Delta R.T. -0.06 min
Lab File: BF088401.D
Acq: 26 Jun 2016 5:05

Instrument :
BNA_F
ClientSampleId :
PM-STA-1388(0-4)DL

Tgt Ion:178 Resp: 167896
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.6
179 15.5 13.0 19.4

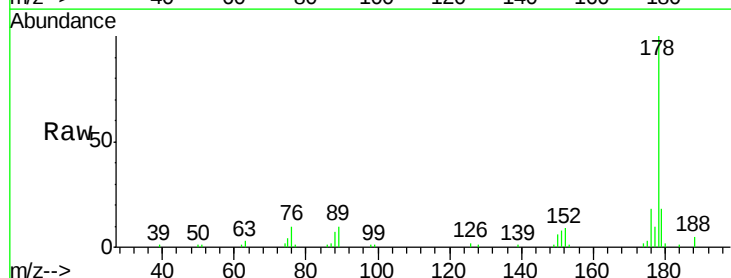


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

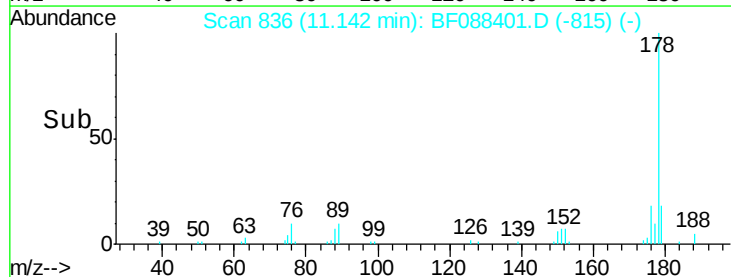
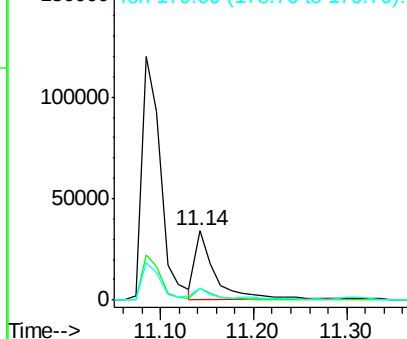


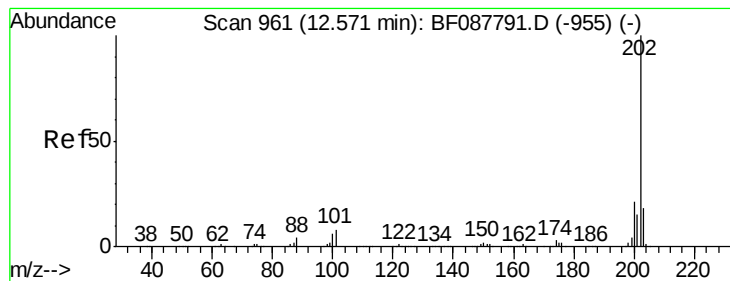
#71
Anthracene
Concen: 4.72 ng
RT: 11.14 min Scan# 836
Delta R.T. -0.06 min
Lab File: BF088401.D
Acq: 26 Jun 2016 5:05

Tgt Ion:178 Resp: 49296
Ion Ratio Lower Upper
178 100
176 17.7 15.6 23.4
179 18.0 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: 20.94 ng

RT: 12.27 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

Instrument :

BNA_F

ClientSampleId :

PM-STA-1388(0-4)DL

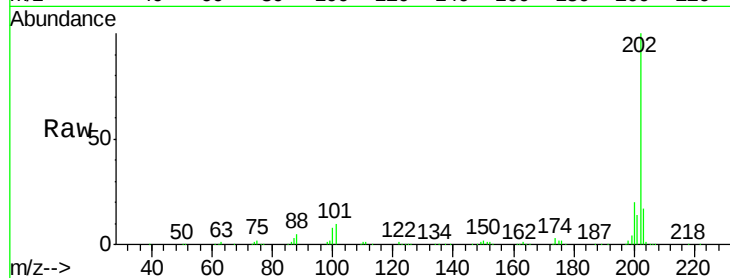
Tgt Ion: 202 Resp: 228629

Ion Ratio Lower Upper

202 100

101 10.0 0.0 33.1

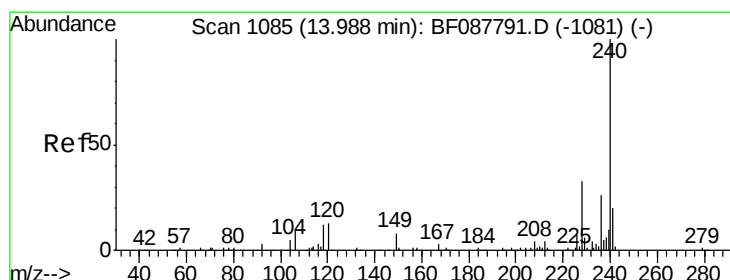
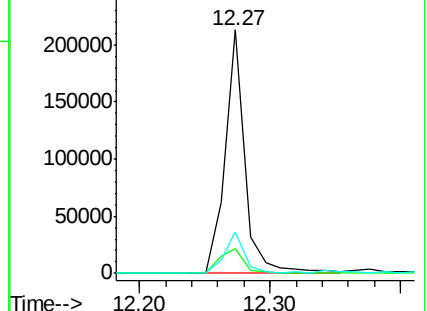
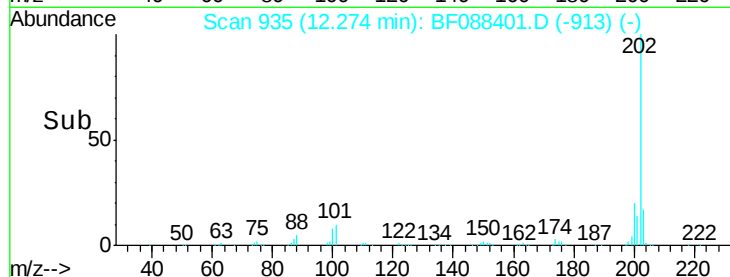
203 17.2 0.0 38.1



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: BF088401.D

Acq: 26 Jun 2016 5:05

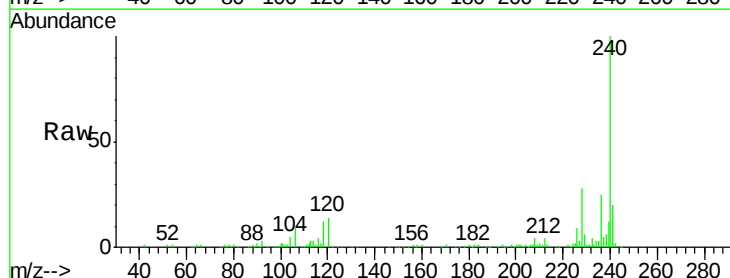
Tgt Ion: 240 Resp: 162396

Ion Ratio Lower Upper

240 100

120 13.6 6.8 10.2#

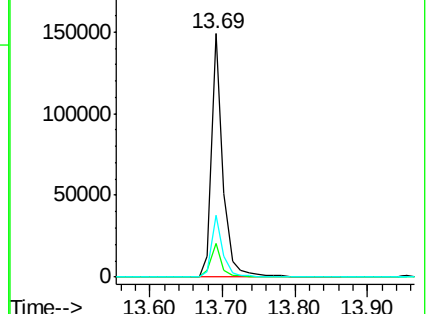
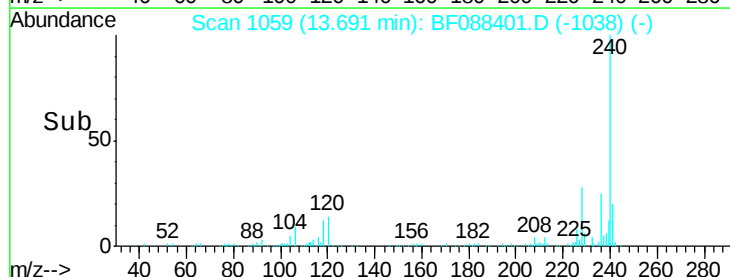
236 25.3 20.2 30.2

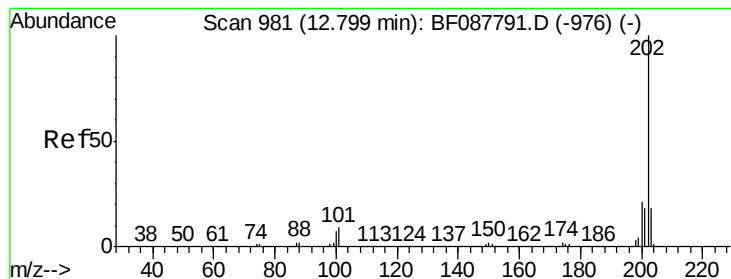


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 15.51 ng

RT: 12.49 min Scan# 954

Delta R.T. -0.06 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

Instrument :

BNA_F

ClientSampleId :

PM-STA-1388(0-4)DL

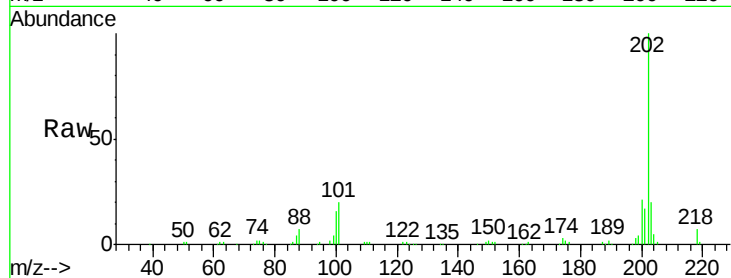
Tgt Ion: 202 Resp: 186965

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

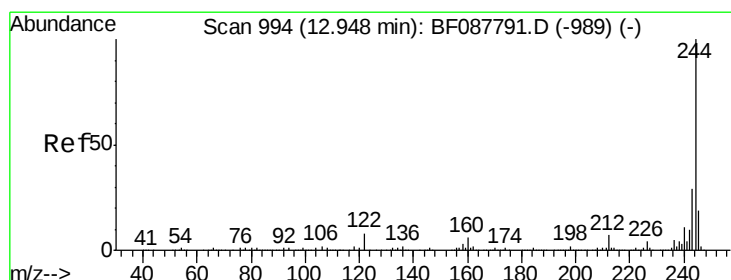
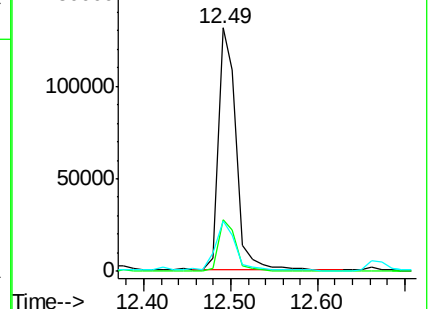
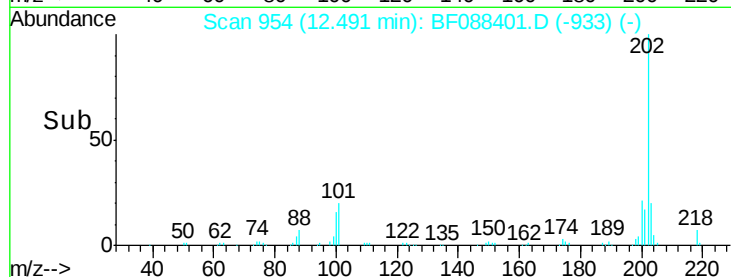
203 20.5 14.5 21.7



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: 16.06 ng

RT: 12.64 min Scan# 967

Delta R.T. -0.06 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

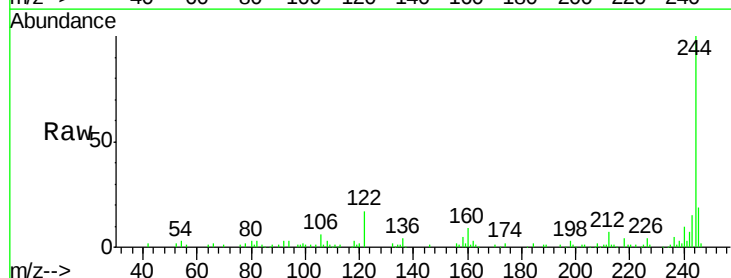
Tgt Ion: 244 Resp: 114639

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

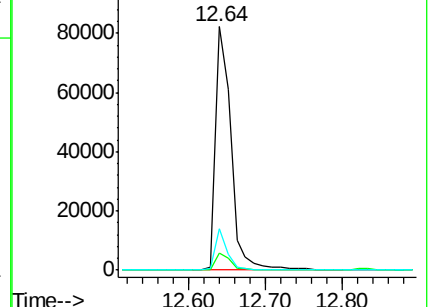
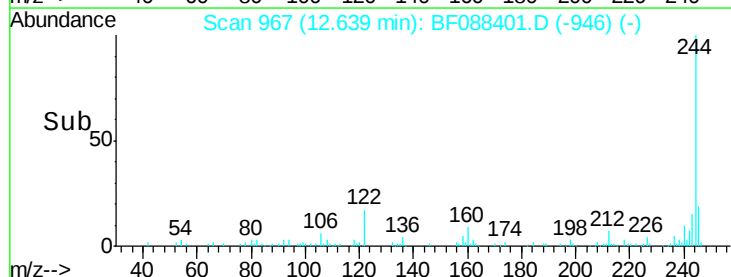
122 16.9 11.2 16.8#

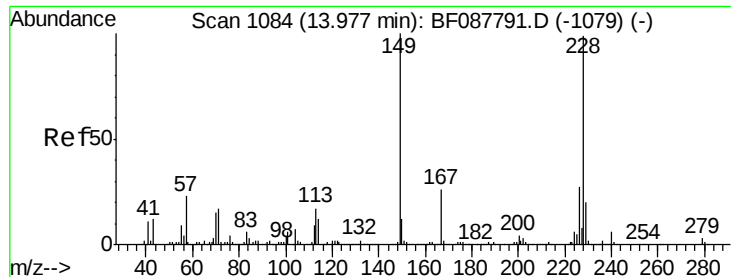


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.71 ng

RT: 13.68 min Scan# 1058

Delta R.T. -0.06 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

Instrument :

BNA_F

ClientSampleId :

PM-STA-1388(0-4)DL

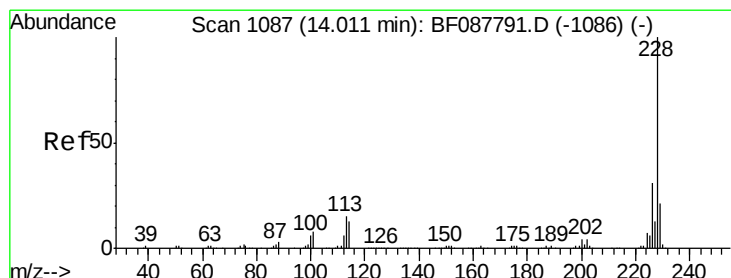
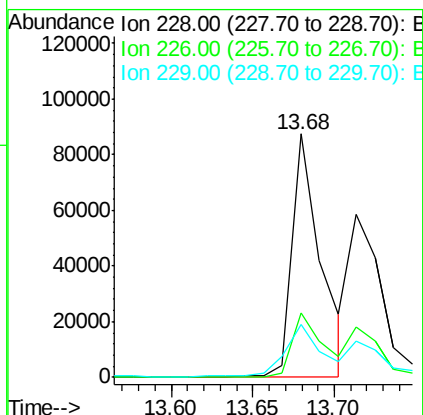
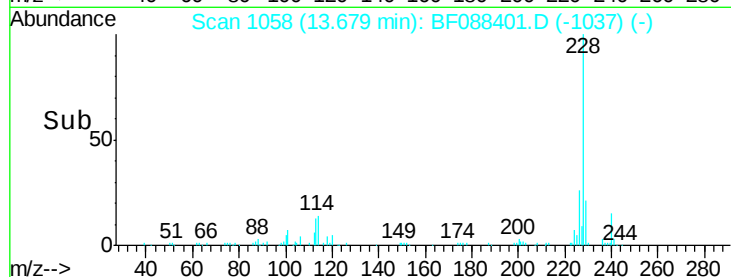
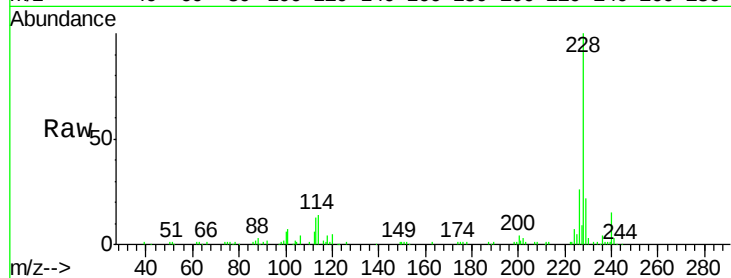
Tgt Ion:228 Resp: 108379

Ion Ratio Lower Upper

228 100

226 26.5 22.3 33.5

229 21.7 16.0 24.0



#82

Chrysene

Concen: 9.57 ng

RT: 13.71 min Scan# 1061

Delta R.T. -0.06 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

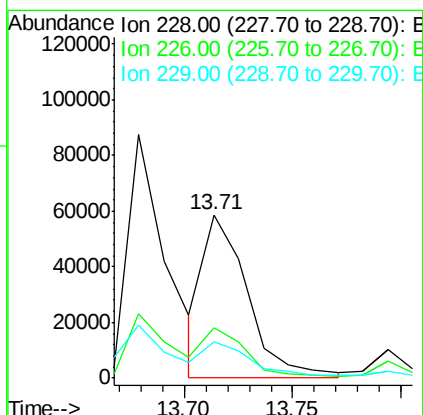
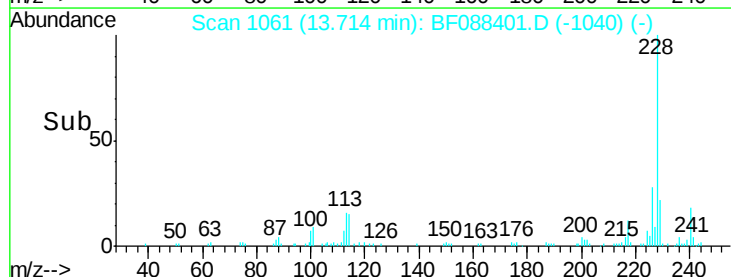
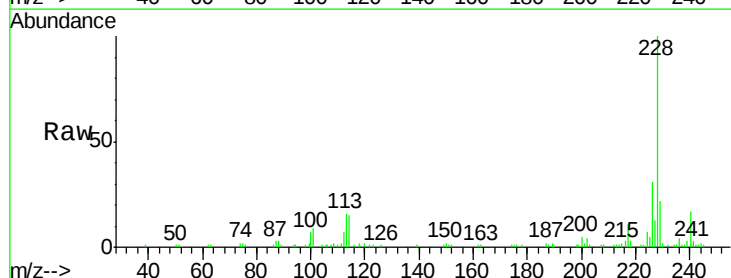
Tgt Ion:228 Resp: 83356

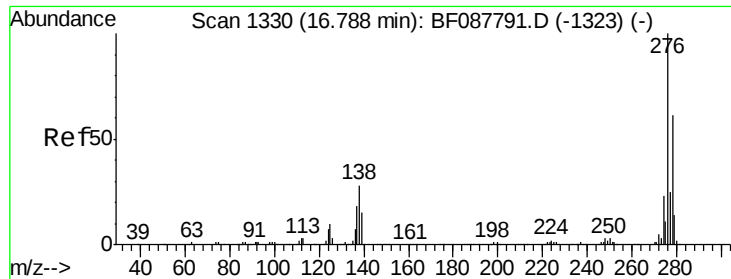
Ion Ratio Lower Upper

228 100

226 30.7 25.4 38.2

229 22.3 16.3 24.5

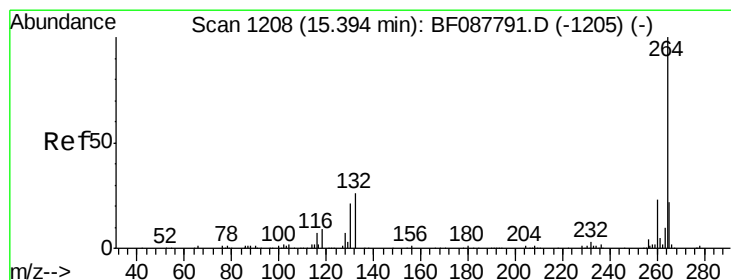
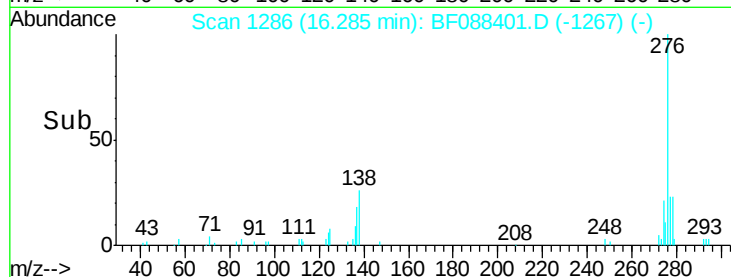
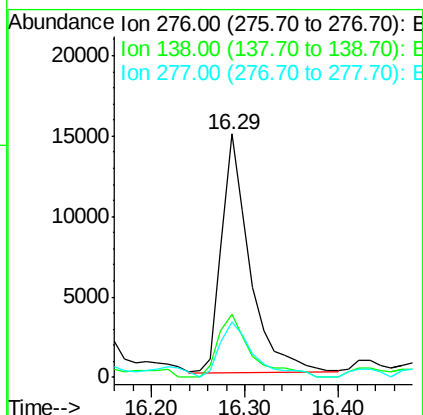
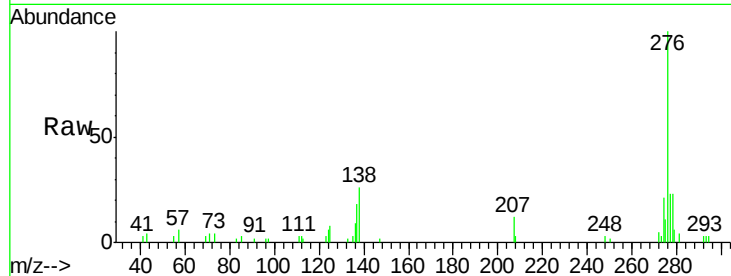




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.85 ng
 RT: 16.29 min Scan# 1286
 Delta R.T. -0.08 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

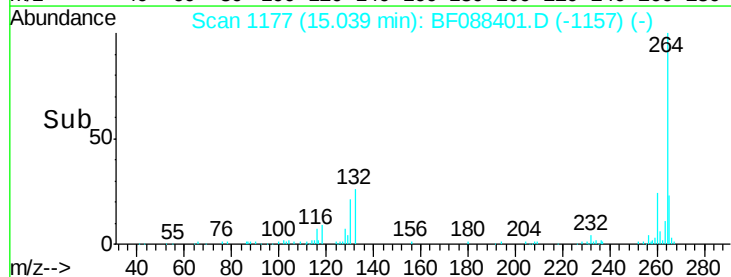
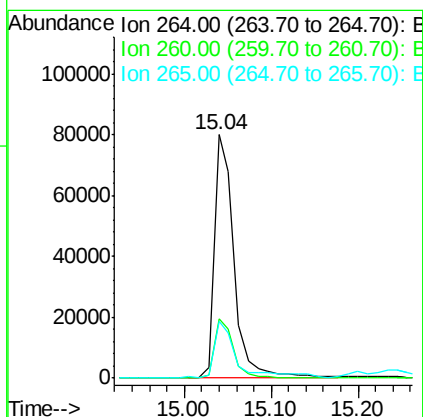
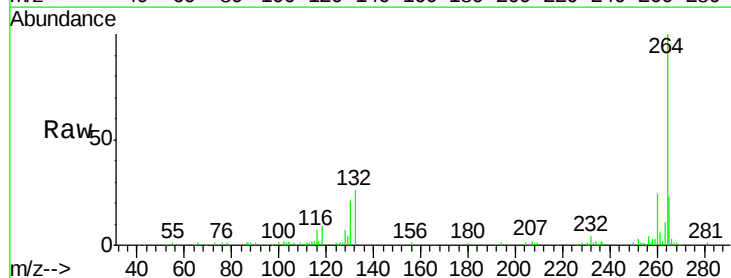
Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1388(0-4)DL

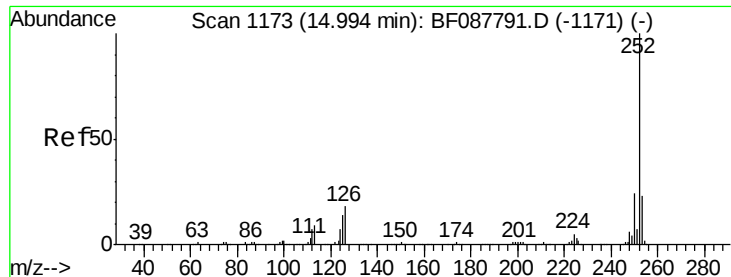
Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.9	0.0	0.0#
277	27.9	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.04 min Scan# 1177
 Delta R.T. -0.07 min
 Lab File: BF088401.D
 Acq: 26 Jun 2016 5:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.1	16.9	25.3

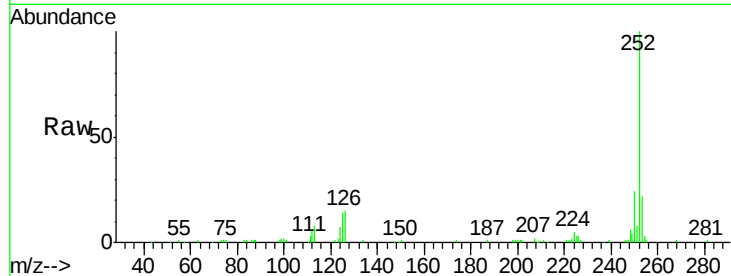




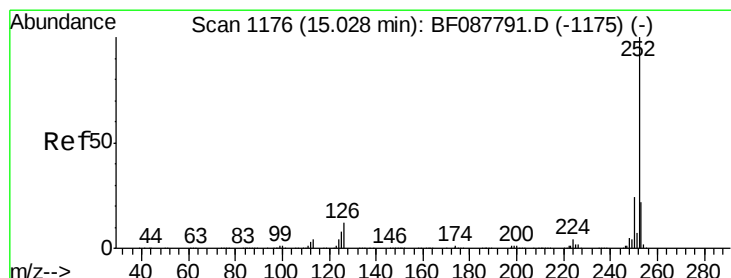
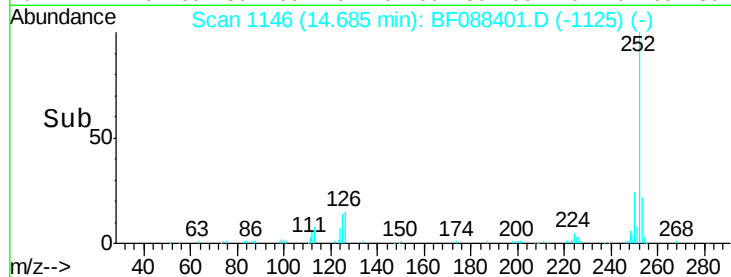
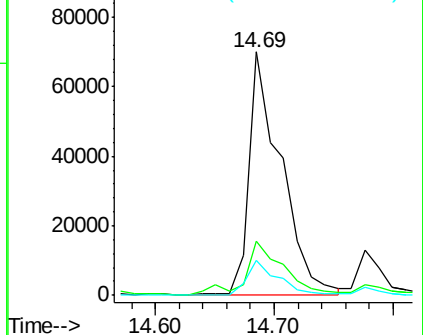
#87
Benzo(b)fluoranthene
Concen: 14.81 ng
RT: 14.69 min Scan# 1146
Delta R.T. -0.06 min
Lab File: BF088401.D
Acq: 26 Jun 2016 5:05

Instrument :
BNA_F
ClientSampleId :
PM-STA-1388(0-4)DL

Tgt Ion:252 Resp: 131796
Ion Ratio Lower Upper
252 100
253 22.2 17.4 26.2
125 14.3 7.1 10.7#

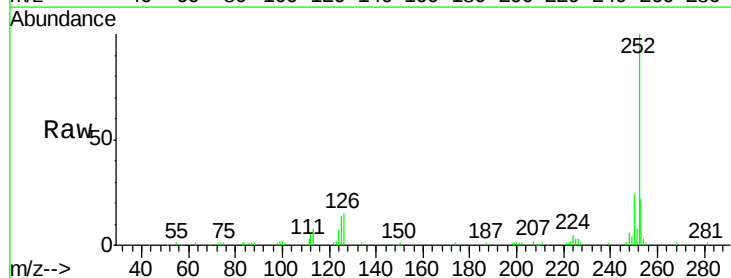


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

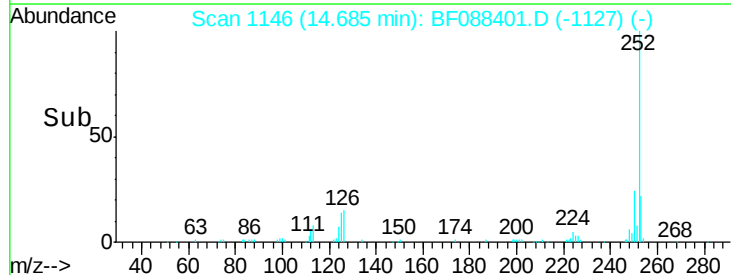
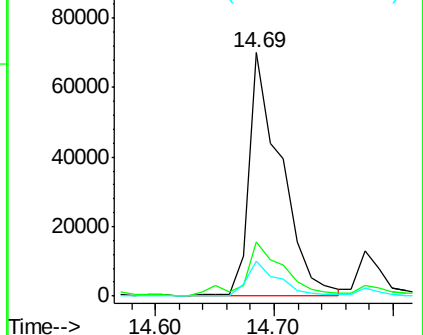


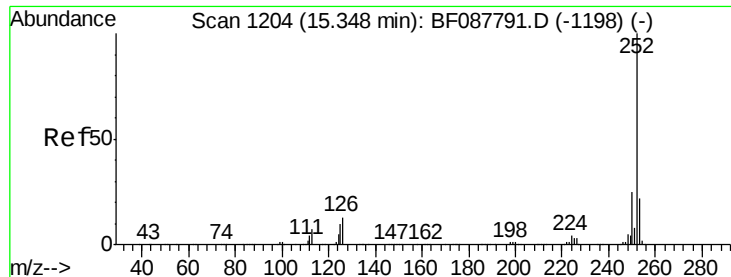
#88
Benzo(k)fluoranthene
Concen: 19.63 ng
RT: 14.69 min Scan# 1146
Delta R.T. -0.08 min
Lab File: BF088401.D
Acq: 26 Jun 2016 5:05

Tgt Ion:252 Resp: 131796
Ion Ratio Lower Upper
252 100
253 22.2 18.0 27.0
125 14.3 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: 9.09 ng

RT: 14.99 min Scan# 1173

Delta R.T. -0.06 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

Instrument :

BNA_F

ClientSampleId :

PM-STA-1388(0-4)DL

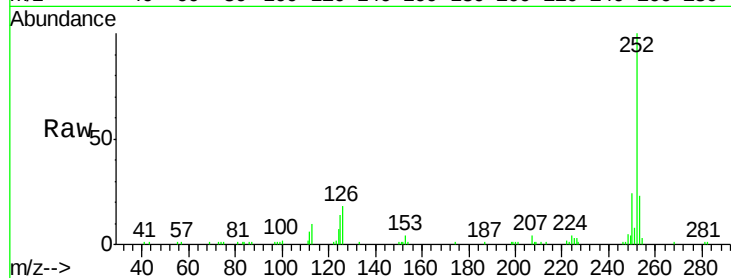
Tgt Ion:252 Resp: 65442

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

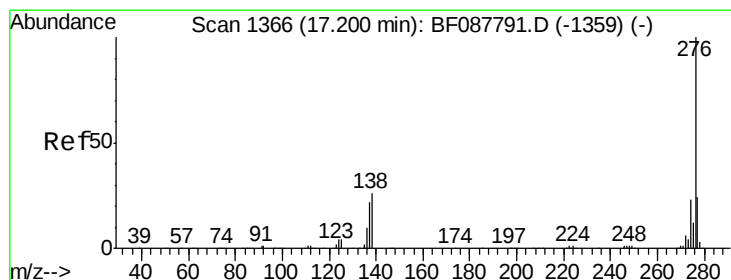
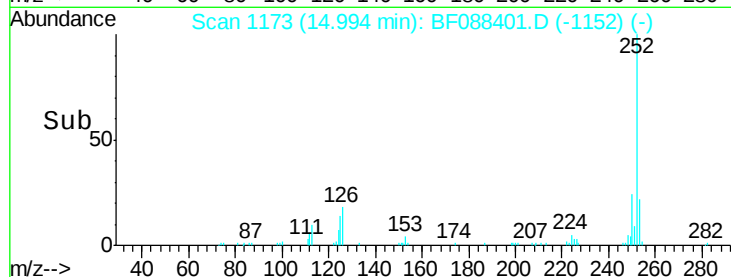
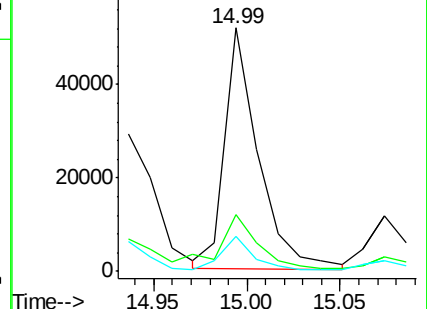
125 14.3 12.5 18.7



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: 4.20 ng

RT: 16.65 min Scan# 1318

Delta R.T. -0.09 min

Lab File: BF088401.D

Acq: 26 Jun 2016 5:05

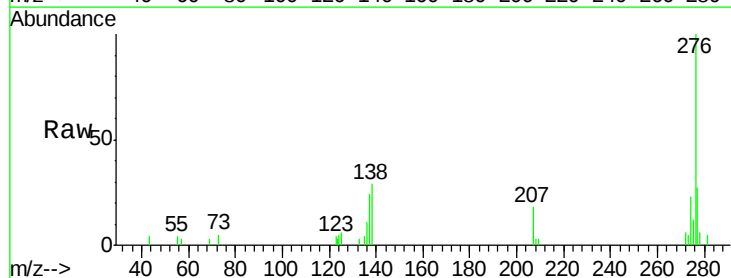
Tgt Ion:276 Resp: 28906

Ion Ratio Lower Upper

276 100

277 26.9 18.9 28.3

138 29.0 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

