

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011016\
 Data File : BF084362.D
 Acq On : 10 Jan 2016 13:59
 Operator : SJ/UM
 Sample : H1043-09 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 11 00:19:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 04 12:22:40 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	284094	20.00	ng	-0.05
21) Naphthalene-d8	8.14	136	1145699	20.00	ng	-0.05
38) Acenaphthene-d10	9.89	164	485365	20.00	ng	-0.06
63) Phenanthrene-d10	11.38	188	865240	20.00	ng	-0.05
75) Chrysene-d12	14.02	240	536238	20.00	ng	-0.05
86) Perylene-d12	15.45	264	467149	20.00	ng	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	513492	29.24	ng	-0.03
7) Phenol-d6	6.50	99	683524	30.99	ng	-0.03
23) Nitrobenzene-d5	7.41	82	387496	18.82	ng	-0.06
41) 2,4,6-Tribromophenol	10.68	330	139900	28.55	ng	-0.06
44) 2-Fluorobiphenyl	9.22	172	713110	21.09	ng	-0.05
78) Terphenyl-d14	12.97	244	494840	20.60	ng	-0.05

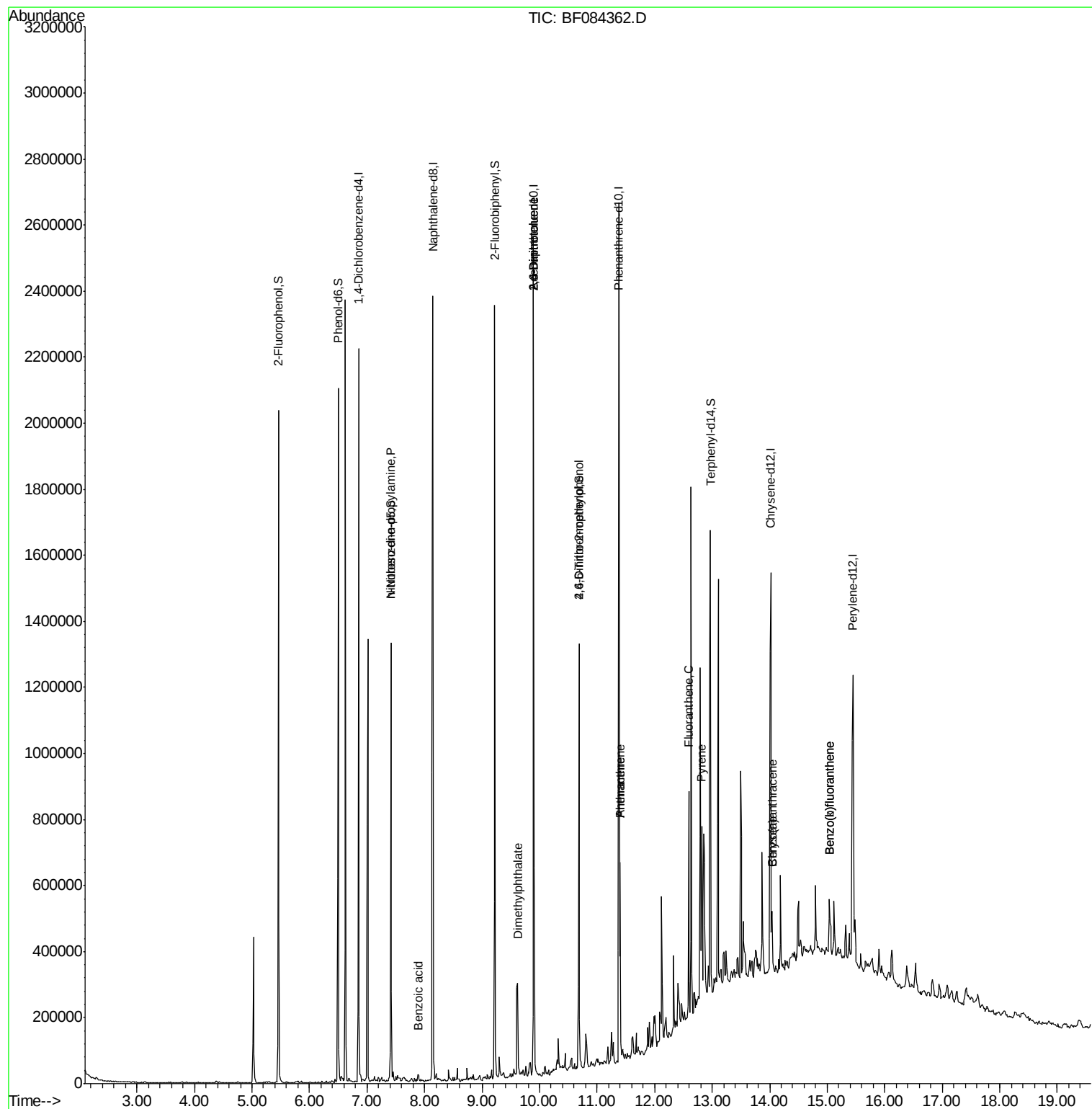
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.41	70	52889	3.54	ng	# 66
32) Benzoic acid	7.89	122	226	6.26	ng	# 1
49) Dimethylphthalate	9.62	163	165446	4.77	ng	# 90
50) 2,6-Dinitrotoluene	9.89	165	64704	8.50	ng	# 37
54) Dibenzofuran	10.10	168	7198	Below Cal		# 95
56) 2,4-Dinitrotoluene	9.89	165	65203	6.77	ng	# 21
57) Fluorene	10.44	166	12750	Below Cal		# 98
64) 4,6-Dinitro-2-methylphenol	10.68	198	367	6.48	ng	# 1
70) Phenanthrene	11.40	178	200387	4.43	ng	100
71) Anthracene	11.40	178	200387	4.52	ng	99
73) Di-n-butylphthalate	11.95	149	10814	Below Cal		# 96
74) Fluoranthene	12.59	202	250994	5.31	ng	99
77) Pvrene	12.82	202	207583	4.93	ng	98
80) Benzo(a)anthracene	14.04	228	126809	4.03	ng	96
82) Chrysene	14.04	228	126809	4.19	ng	98
87) Benzo(b)fluoranthene	15.04	252	116086	3.80	ng	# 91
88) Benzo(k)fluoranthene	15.04	252	116086	4.64	ng	# 94

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

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M
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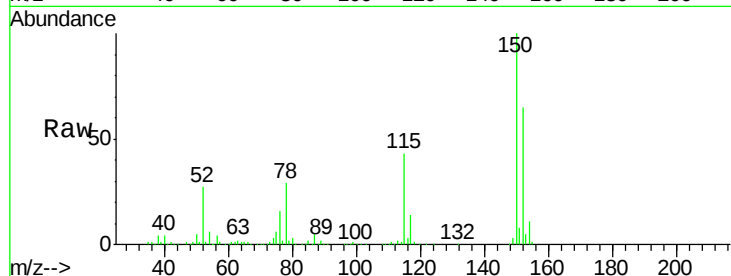


#1

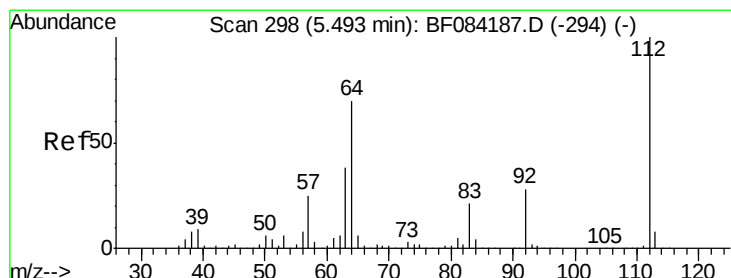
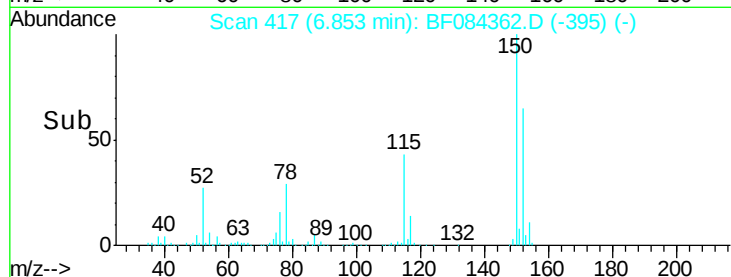
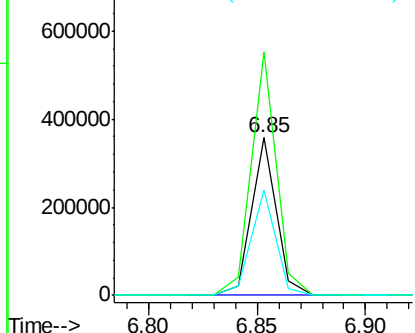
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 417
Delta R.T. -0.05 min
Lab File: BF084362.D
Acq: 10 Jan 2016 13:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	123.0	184.4
115	66.7	51.4	77.2



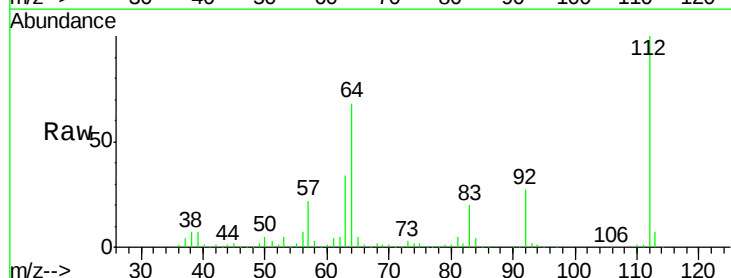
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



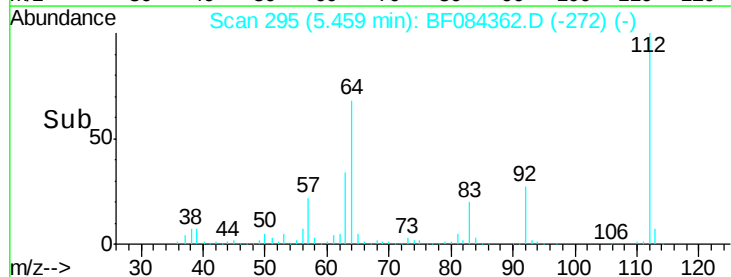
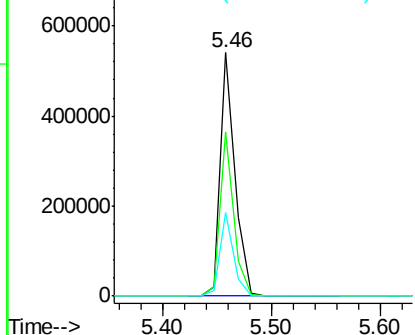
#5

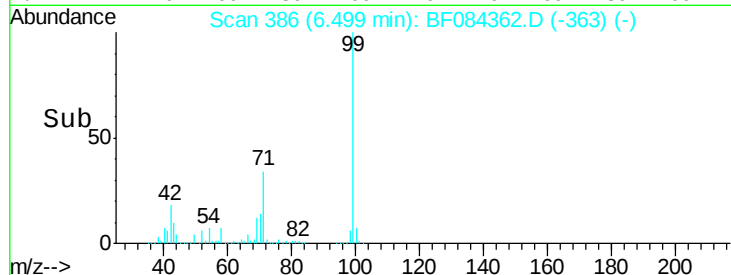
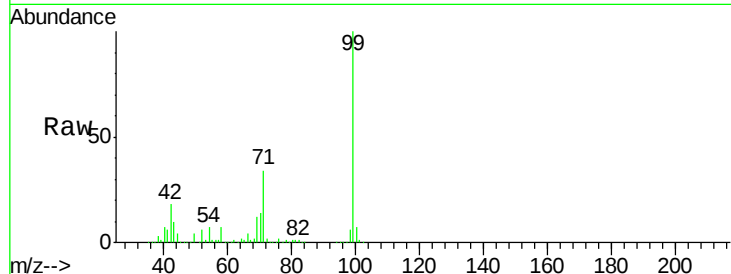
2-Fluorophenol
Concen: 29.24 ng
RT: 5.46 min Scan# 295
Delta R.T. -0.03 min
Lab File: BF084362.D
Acq: 10 Jan 2016 13:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.6	36.6	55.0#
63	34.4	19.4	29.0#



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: 30.99 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.03 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampled :

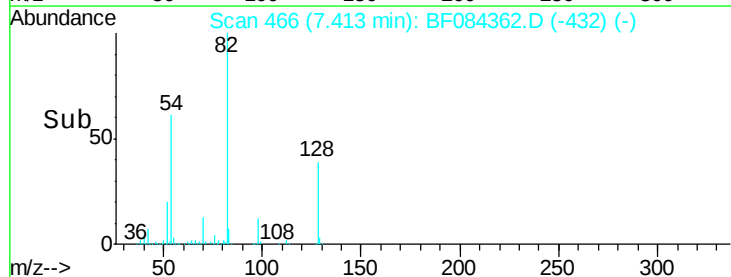
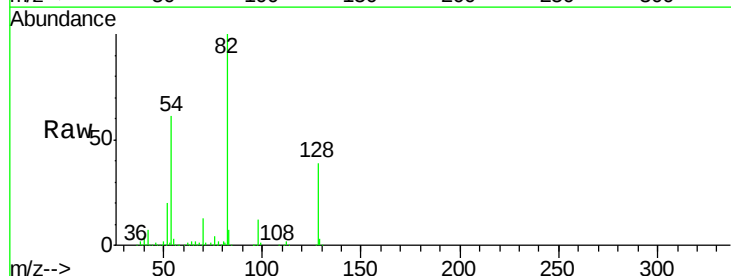
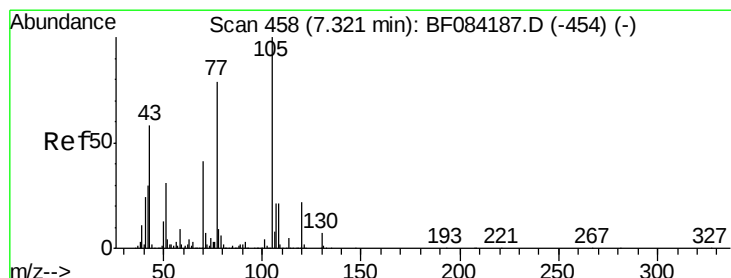
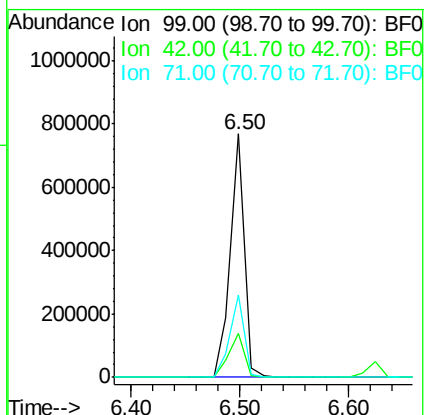
Tot Ion: 99 Resp: 683524

Ion Ratio Lower Upper

99 100

42 18.1 12.8 19.2

71 33.7 30.9 46.3



#19

n-Nitroso-di-n-propylamine

Concen: 3.54 ng

RT: 7.41 min Scan# 466

Delta R.T. 0.09 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Tgt Ion: 70 Resp: 52889

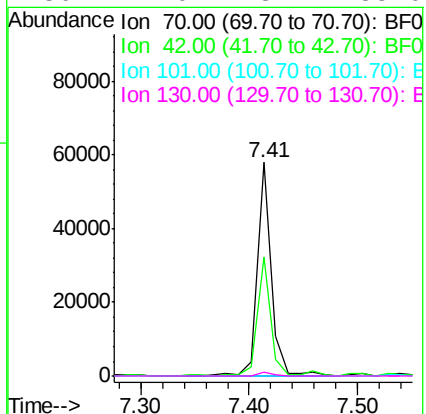
Ion Ratio Lower Upper

70 100

42 56.0 33.3 49.9#

101 0.0 9.3 13.9#

130 2.0 23.4 35.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.05 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 1145699

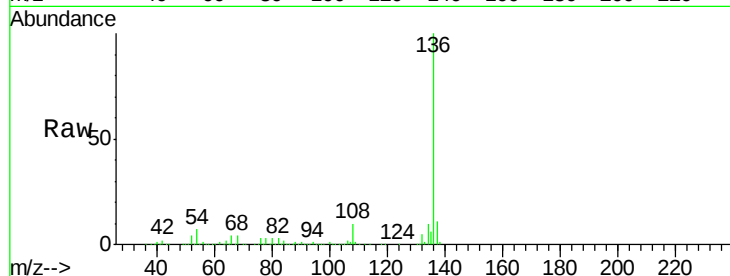
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 7.2 5.8 8.8

68 4.0 4.2 6.2#

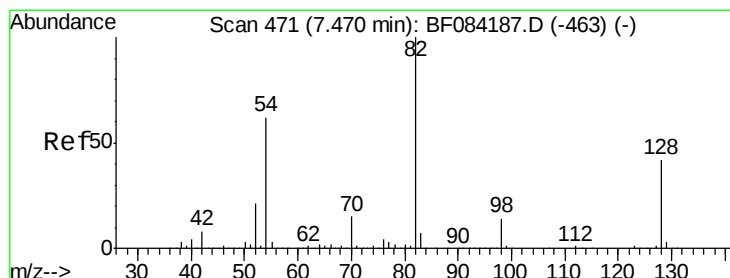
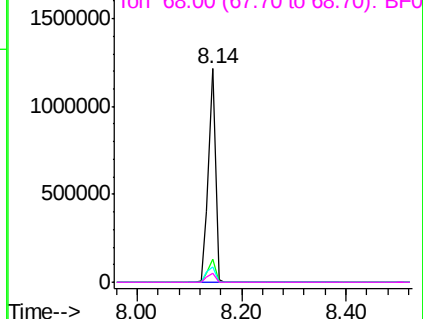
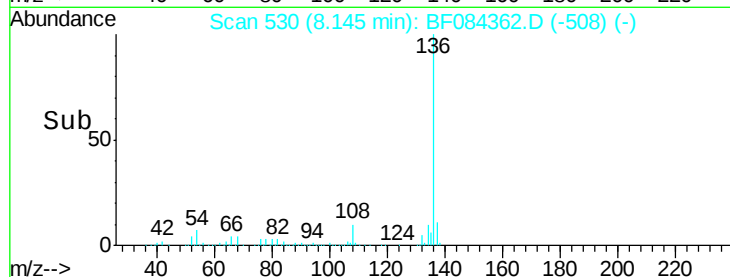


Abundance Ion 136.00 (135.70 to 136.70): E

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: 18.82 ng

RT: 7.41 min Scan# 466

Delta R.T. -0.06 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

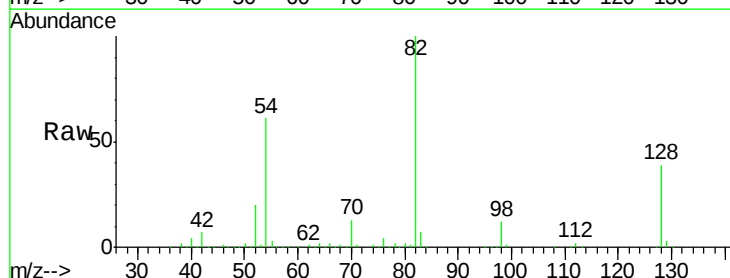
Tgt Ion: 82 Resp: 387496

Ion Ratio Lower Upper

82 100

128 38.8 34.6 51.8

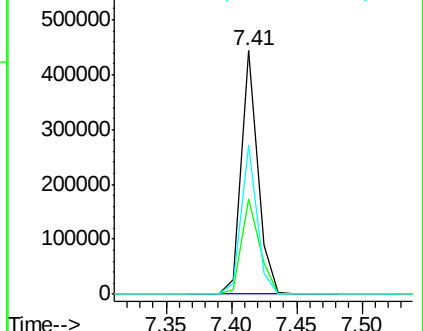
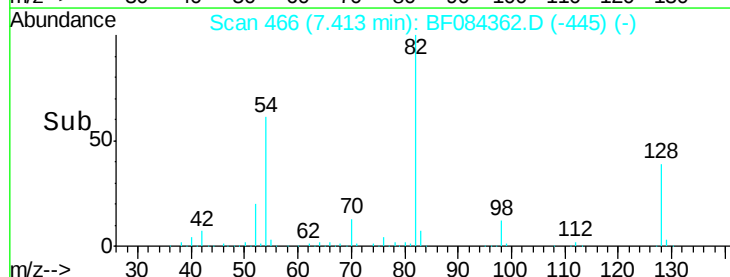
54 61.0 38.4 57.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

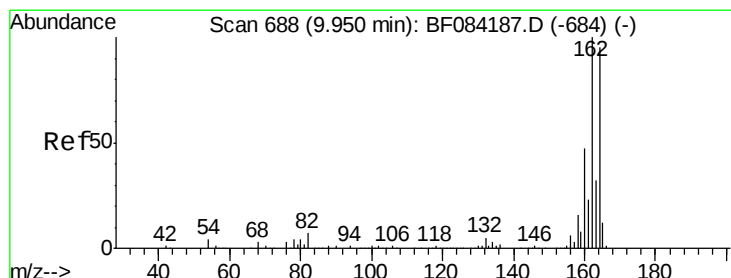
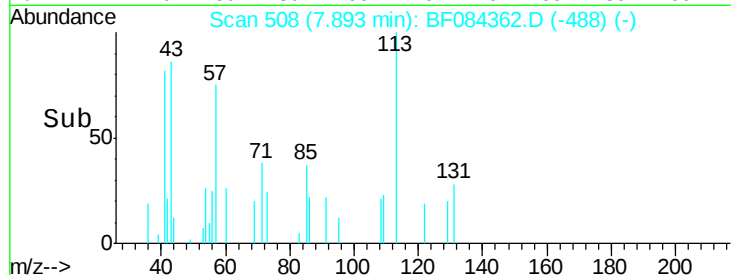
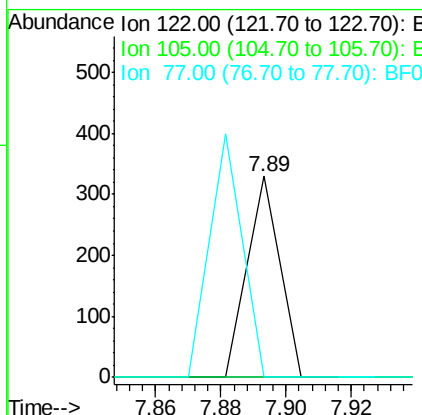
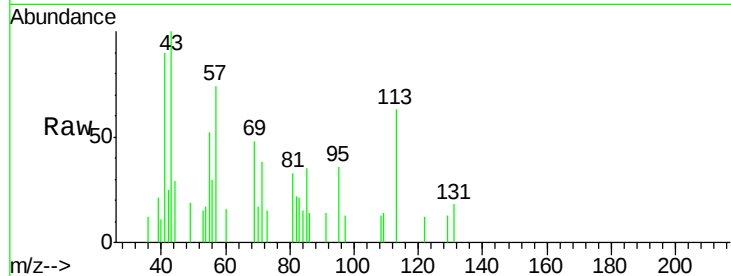




#32
Benzoic acid
Concen: 6.26 ng
RT: 7.89 min Scan# 508
Delta R.T. -0.07 min
Lab File: BF084362.D
Acq: 10 Jan 2016 13:59

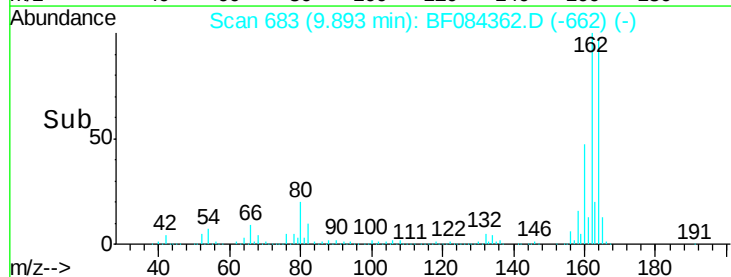
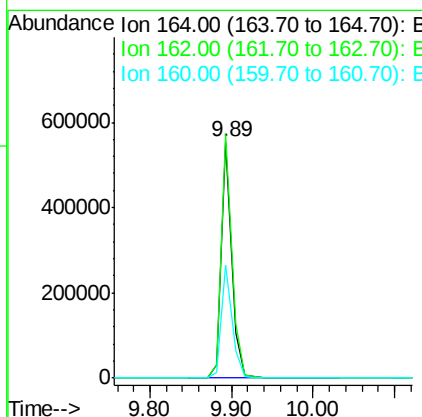
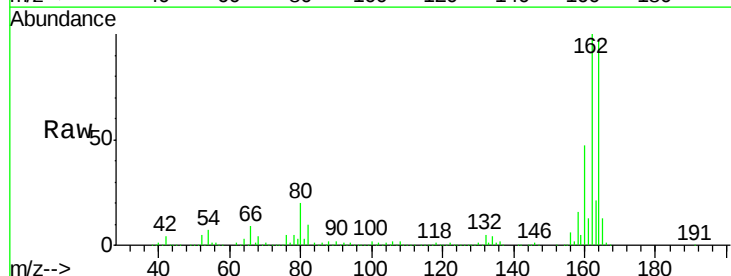
Instrument :
BNA_F
ClientSampleId :

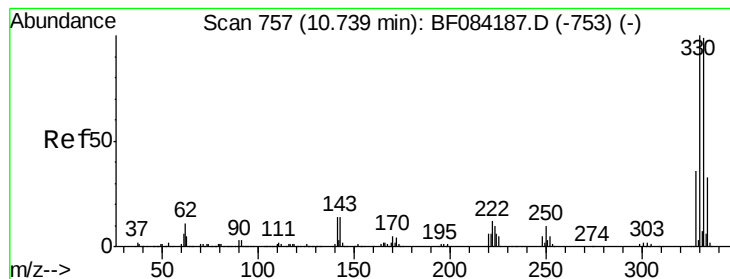
Tot Ion	Ratio	Lower	Upper
122	100		
105	0.0	100.3	140.3#
77	0.0	63.5	103.5#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 683
Delta R.T. -0.06 min
Lab File: BF084362.D
Acq: 10 Jan 2016 13:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	85.1	127.7
160	48.1	37.5	56.3





#41

2,4,6-Tribromophenol

Concen: 28.55 ng

RT: 10.68 min Scan# 752

Delta R.T. -0.06 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

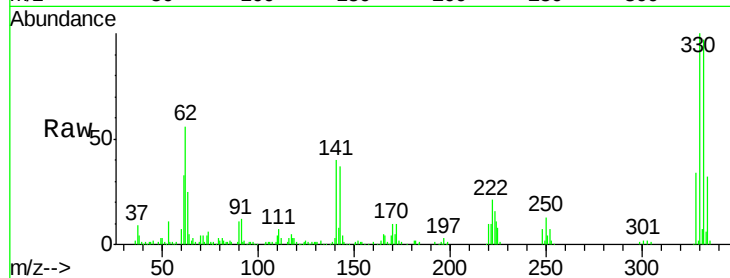
Tot Ion:330 Resp: 139900

Ion Ratio Lower Upper

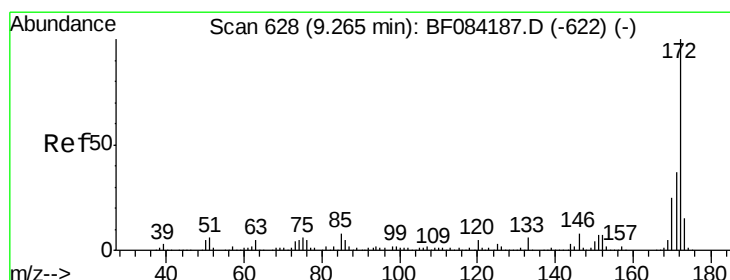
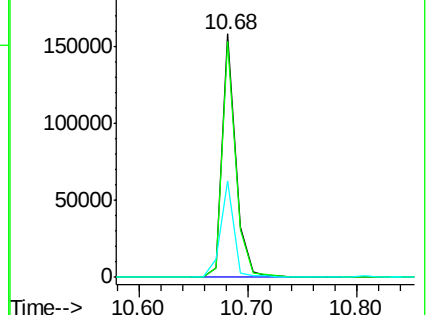
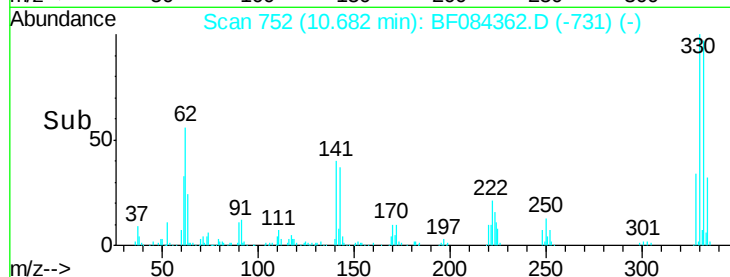
330 100

332 96.4 76.6 114.8

141 39.8 27.8 41.6



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: 21.09 ng

RT: 9.22 min Scan# 624

Delta R.T. -0.05 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

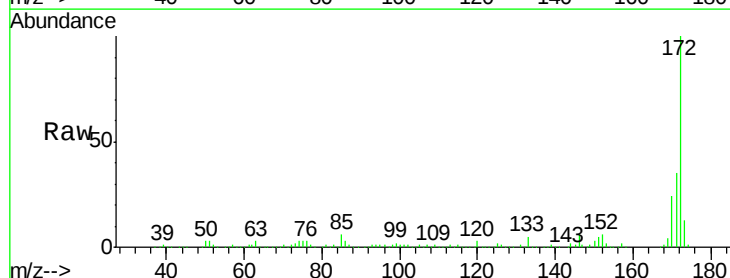
Tgt Ion:172 Resp: 713110

Ion Ratio Lower Upper

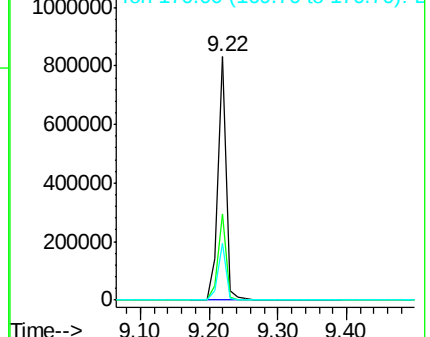
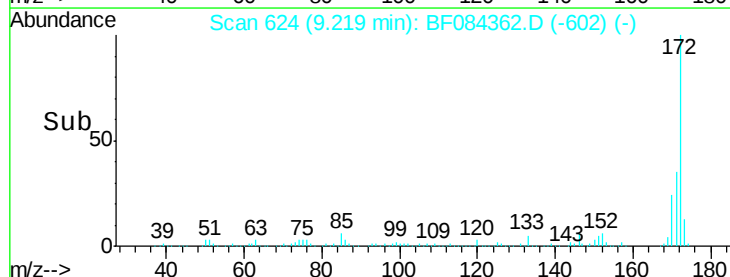
172 100

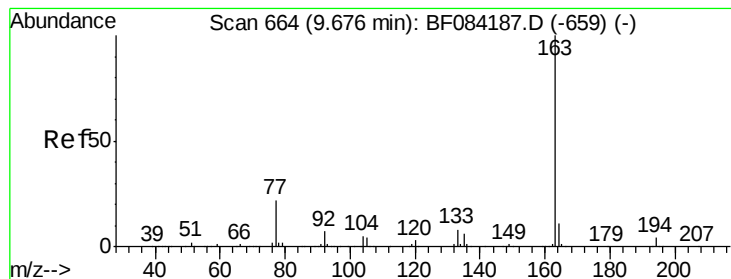
171 35.4 28.9 43.3

170 23.5 18.6 27.8



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





#49

Dimethylphthalate

Concen: 4.77 ng

RT: 9.62 min Scan# 659

Delta R.T. -0.06 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

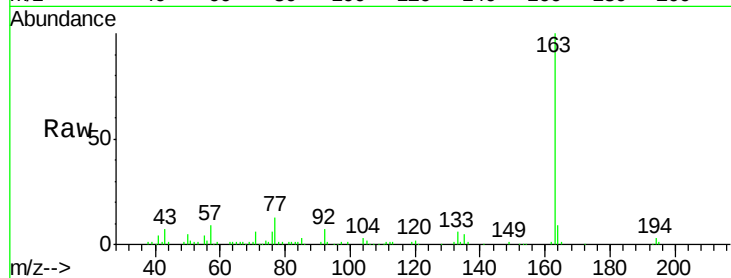
Tot Ion:163 Resp: 165446

Ion Ratio Lower Upper

163 100

194 3.5 8.0 12.0#

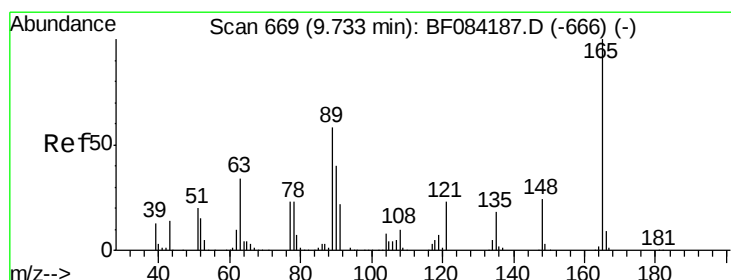
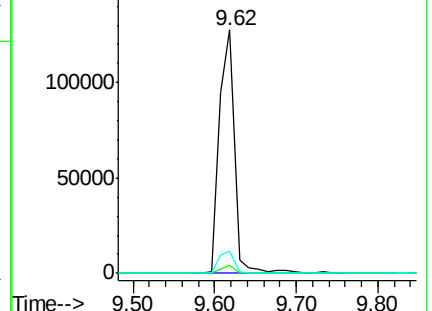
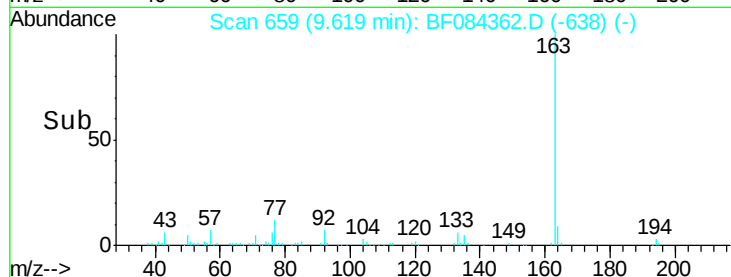
164 9.2 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.50 ng

RT: 9.89 min Scan# 683

Delta R.T. 0.16 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

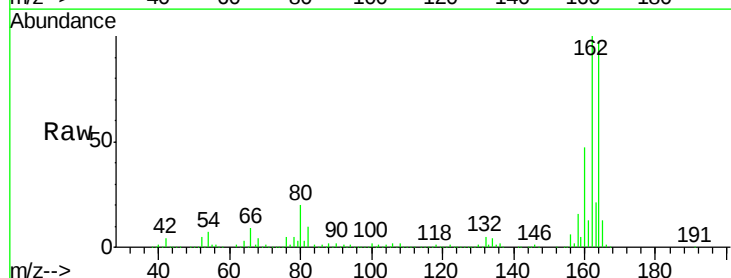
Tgt Ion:165 Resp: 64704

Ion Ratio Lower Upper

165 100

63 1.2 28.8 43.2#

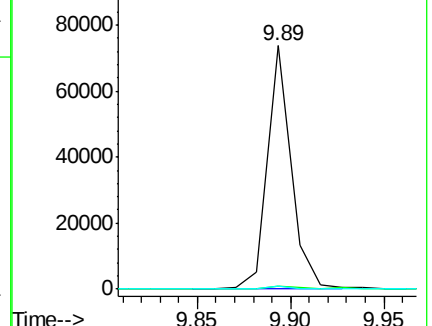
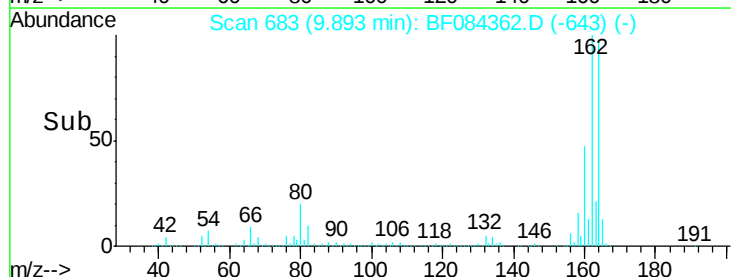
89 1.1 35.1 52.7#

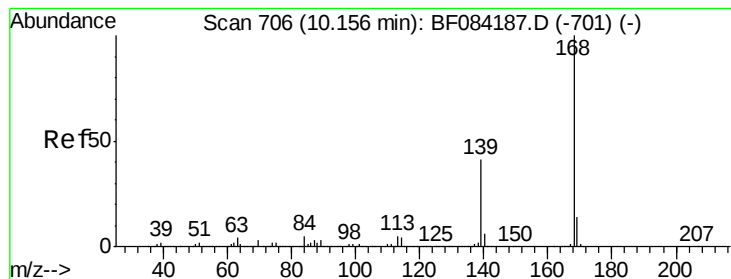


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#54

Dibenzofuran

Concen: Below Cal

RT: 10.10 min Scan# 701

Delta R.T. -0.06 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

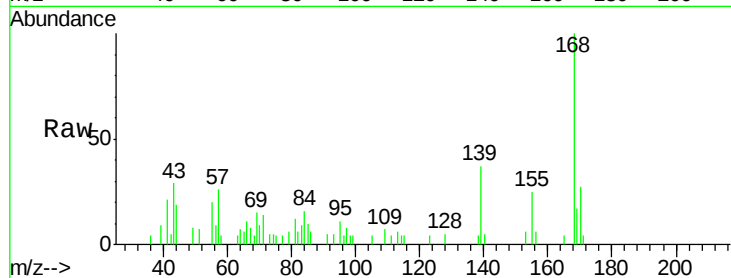
Tot Ion:168 Resp: 7198

Ion Ratio Lower Upper

168 100

139 36.6 30.5 45.7

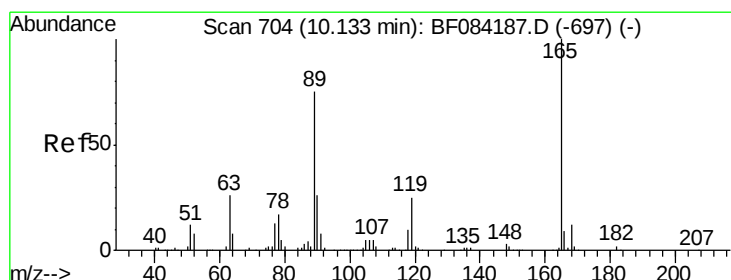
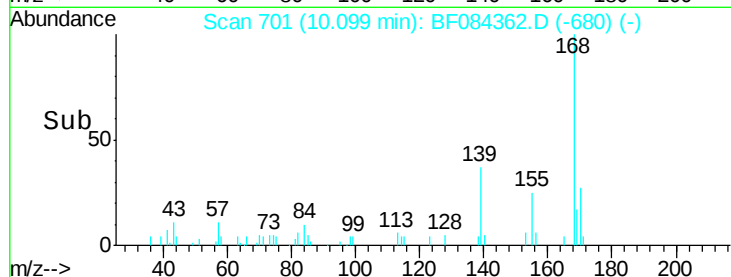
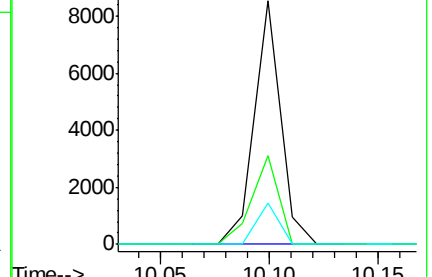
169 17.1 10.4 15.6#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56

2,4-Dinitrotoluene

Concen: 6.77 ng

RT: 9.89 min Scan# 683

Delta R.T. -0.24 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Tgt Ion:165 Resp: 65203

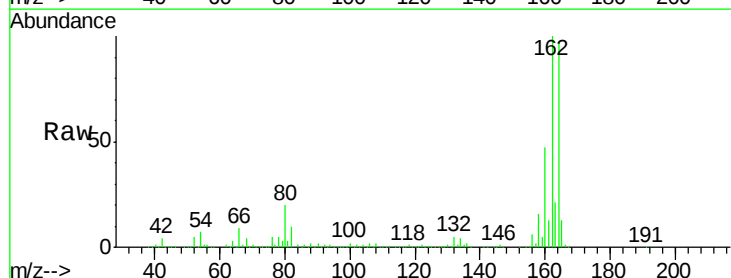
Ion Ratio Lower Upper

165 100

63 1.2 36.7 55.1#

89 1.1 61.9 92.9#

182 0.0 2.0 3.0#

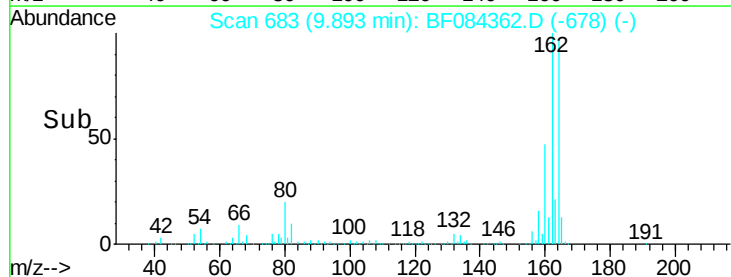
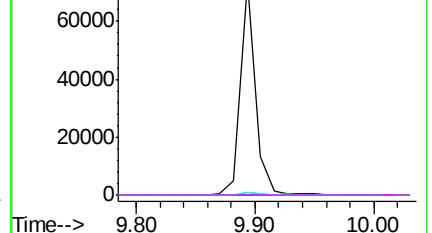


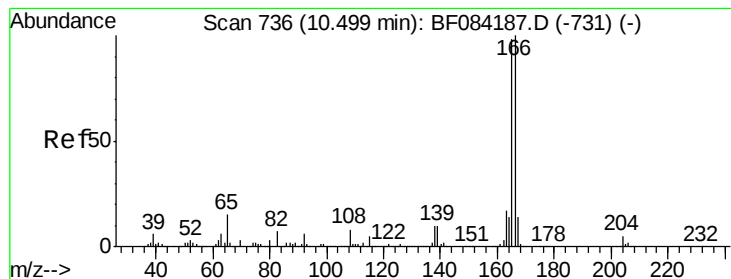
Abundance Ion 165.00 (164.70 to 165.70): E

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: 10.44 min Scan# 731

Delta R.T. -0.06 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

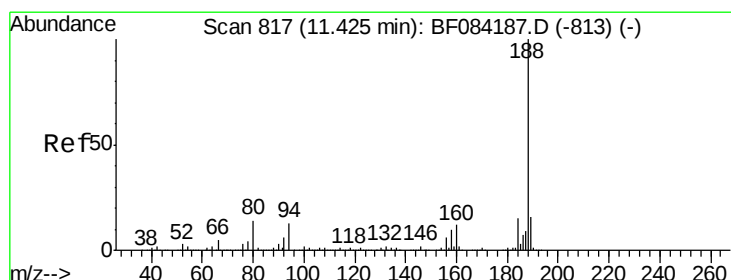
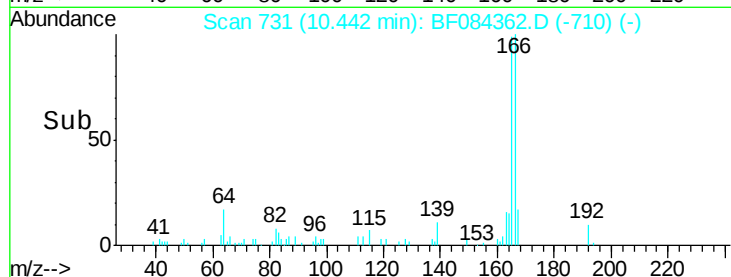
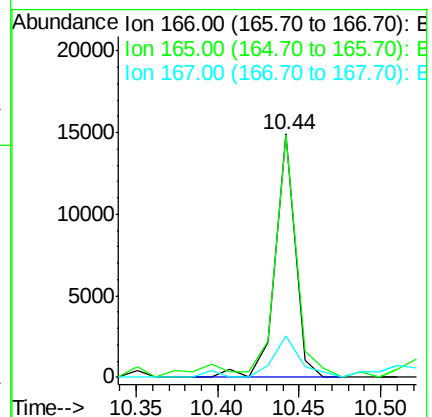
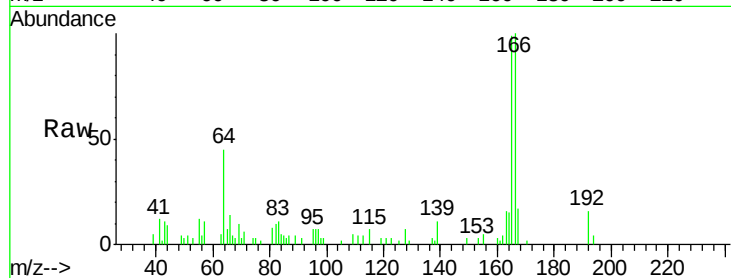
Tot Ion:166 Resp: 12750

Ion Ratio Lower Upper

166 100

165 99.3 79.1 118.7

167 16.9 10.4 15.6#



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.38 min Scan# 813

Delta R.T. -0.05 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

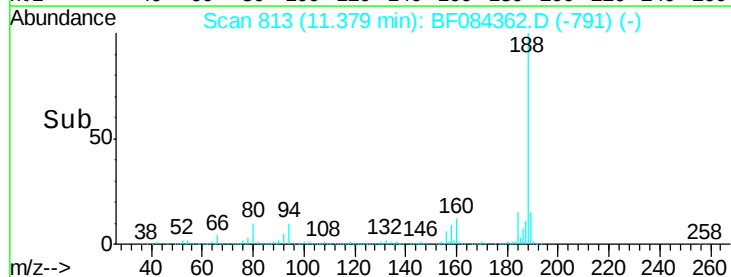
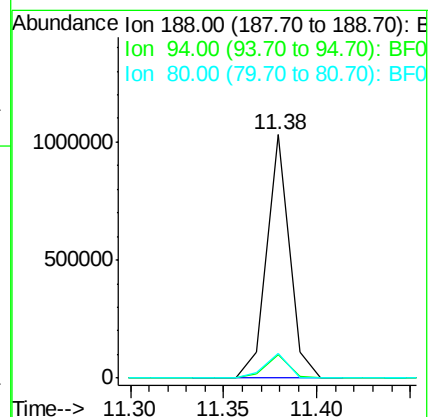
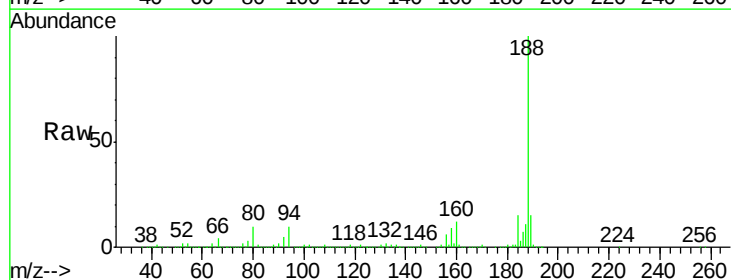
Tgt Ion:188 Resp: 865240

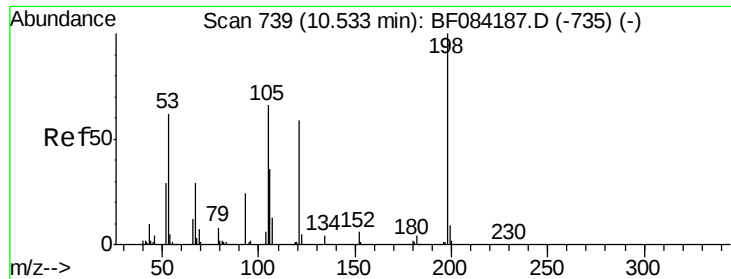
Ion Ratio Lower Upper

188 100

94 9.7 9.0 13.4

80 10.1 9.6 14.4





#64

4,6-Dinitro-2-methylphenol

Concen: 6.48 ng

RT: 10.68 min Scan# 752

Delta R.T. 0.15 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

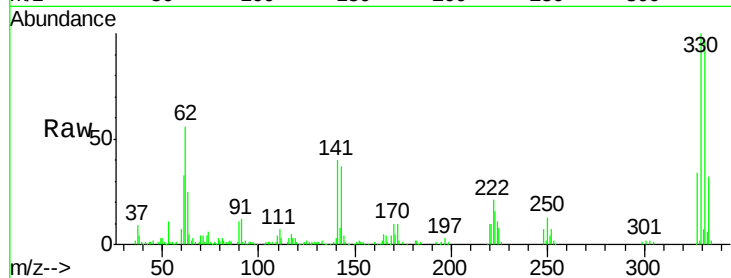
Tot Ion:198 Resp: 367

Ion Ratio Lower Upper

198 100

51 224.7 18.9 58.9#

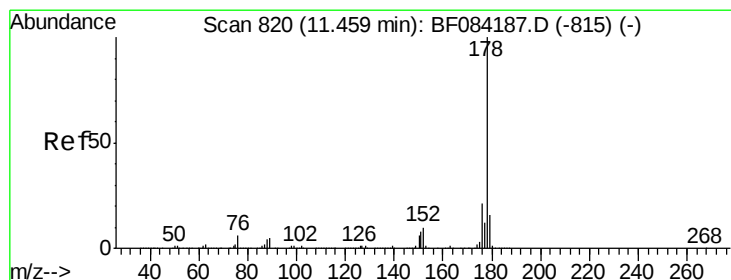
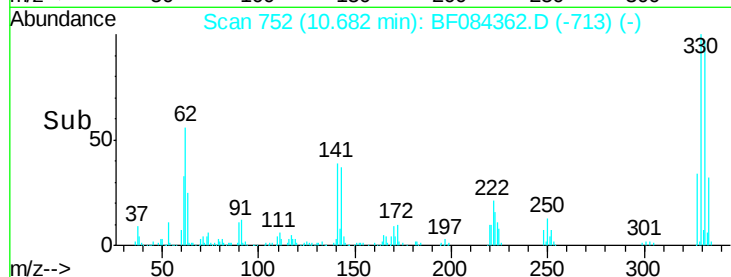
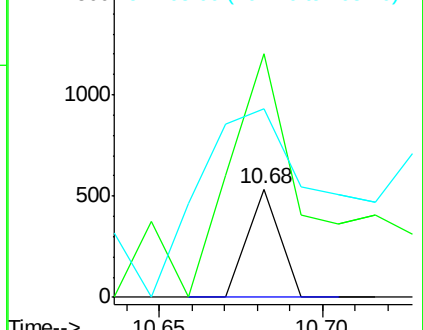
105 174.2 26.4 66.4#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#70

Phenanthrene

Concen: 4.43 ng

RT: 11.40 min Scan# 815

Delta R.T. -0.06 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

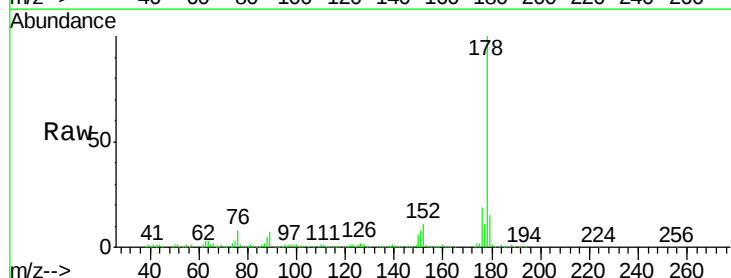
Tgt Ion:178 Resp: 200387

Ion Ratio Lower Upper

178 100

176 18.9 15.3 22.9

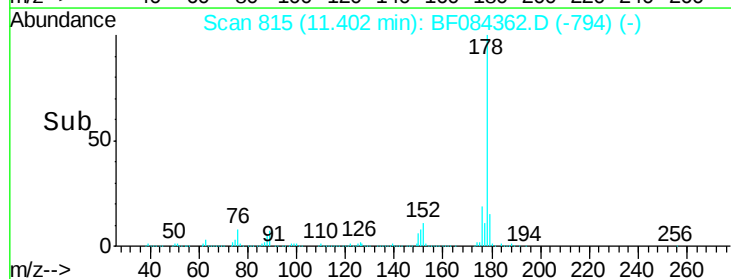
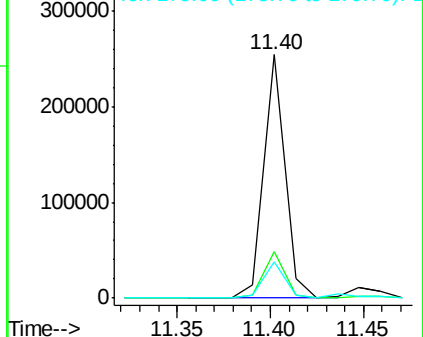
179 15.0 12.0 18.0

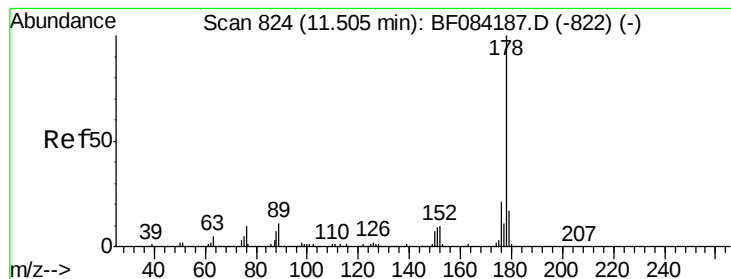


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 4.52 ng

RT: 11.40 min Scan# 815

Delta R.T. -0.10 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

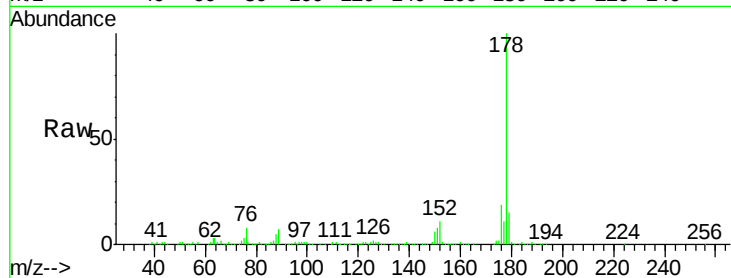
Tot Ion:178 Resp: 200387

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.0

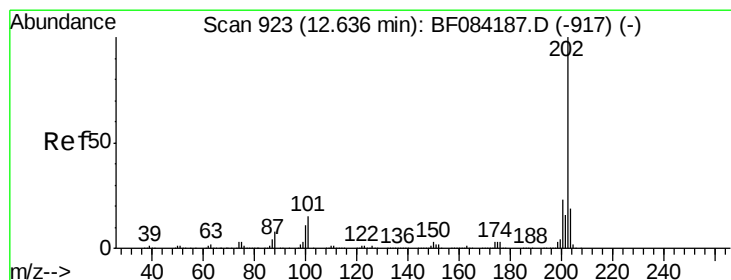
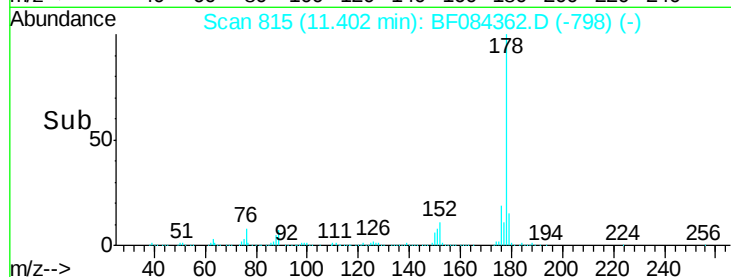
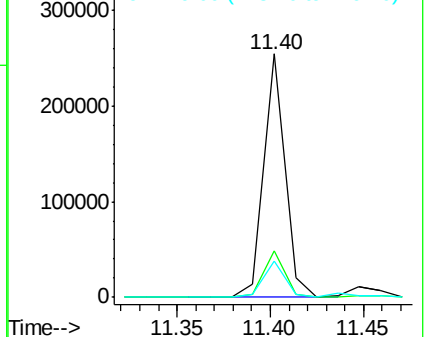
179 15.0 12.5 18.7



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: 5.31 ng

RT: 12.59 min Scan# 919

Delta R.T. -0.05 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

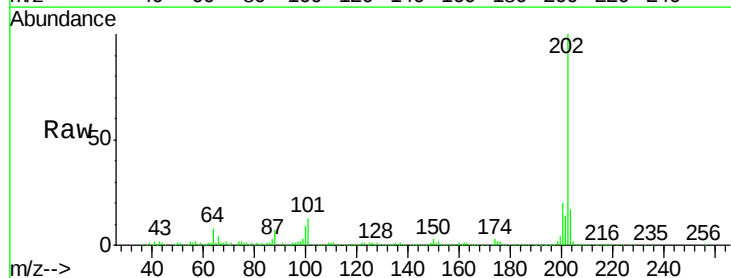
Tgt Ion:202 Resp: 250994

Ion Ratio Lower Upper

202 100

101 12.6 0.0 32.8

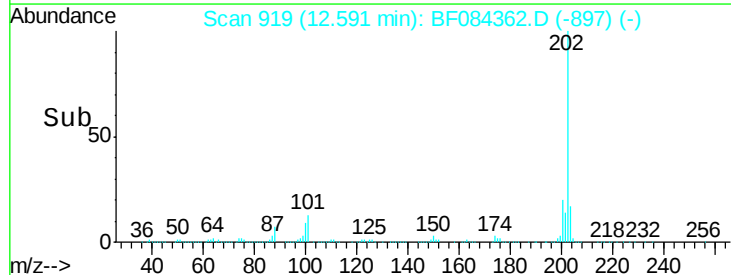
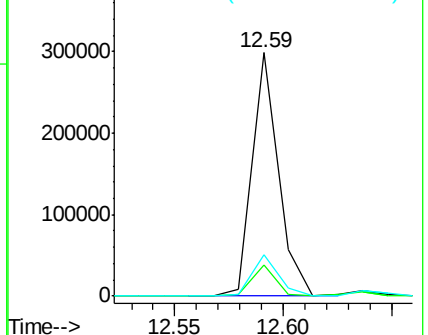
203 17.1 0.0 37.9

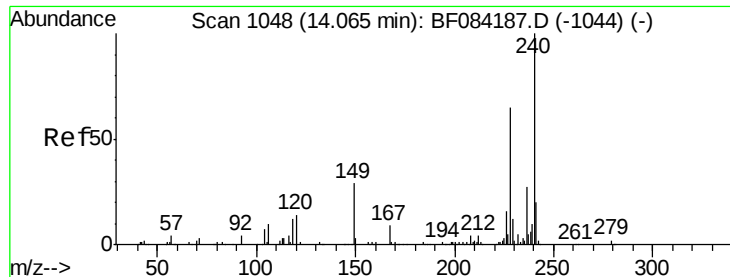


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 1044

Delta R.T. -0.05 min

Lab File: BF084362.D

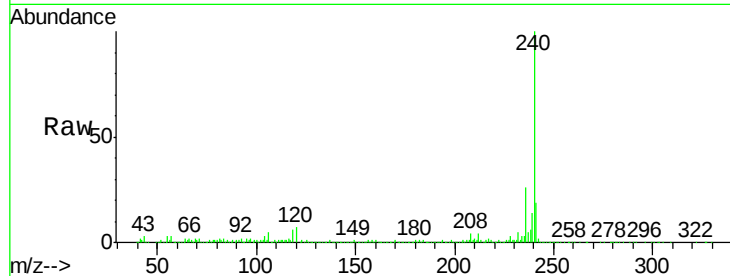
Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

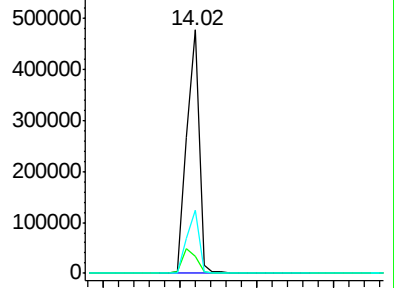
Tot Ion:	240	Resp:	536238
Ion	Ratio	Lower	Upper
240	100		
120	7.0	9.5	14.3#
236	25.8	20.6	31.0



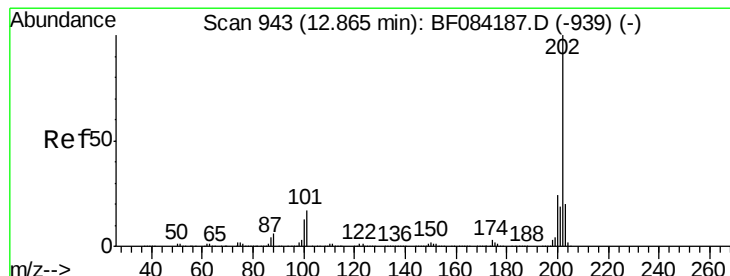
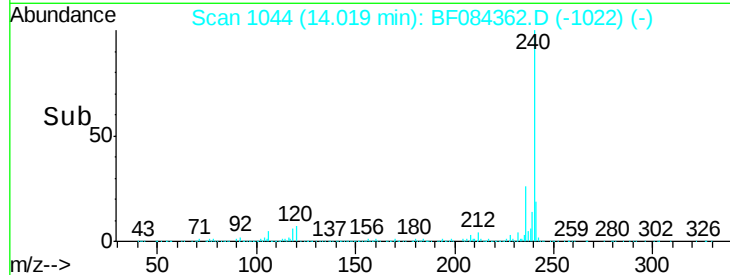
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time--> 13.90 14.00 14.10 14.20



#77

Pyrene

Concen: 4.93 ng

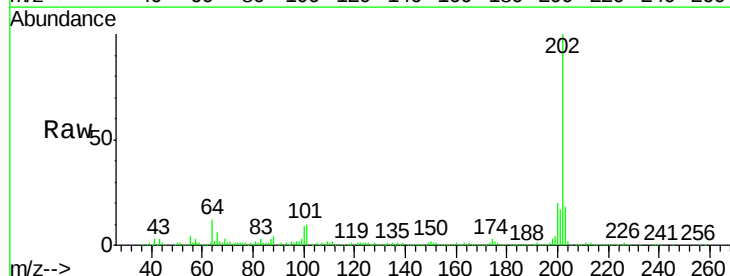
RT: 12.82 min Scan# 939

Delta R.T. -0.05 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

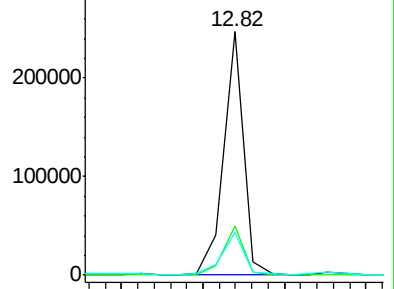
Tgt Ion:	202	Resp:	207583
Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.2	25.8
203	17.6	14.3	21.5



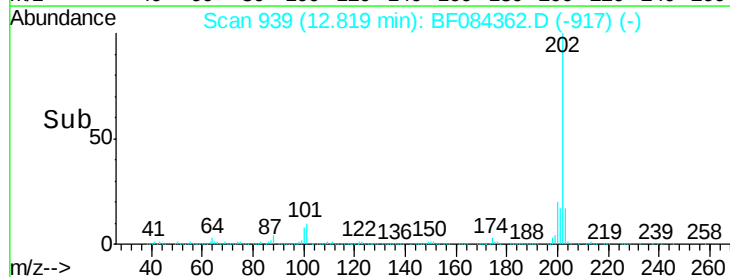
Abundance Ion 202.00 (201.70 to 202.70): E

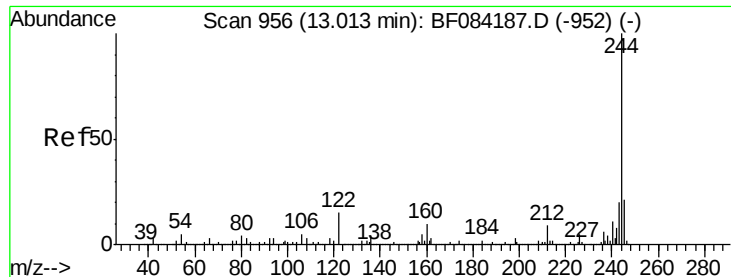
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 12.75 12.80 12.85





#78

Terphenyl-d14

Concen: 20.60 ng

RT: 12.97 min Scan# 952

Delta R.T. -0.05 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

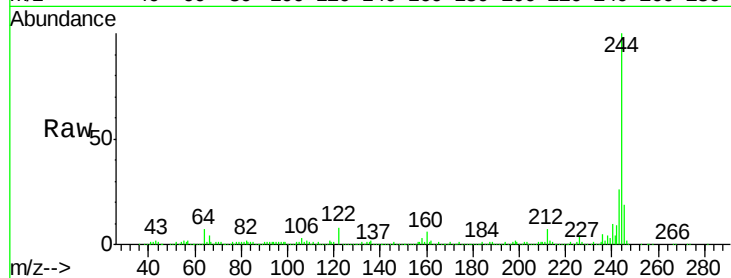
Tot Ion:244 Resp: 494840

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

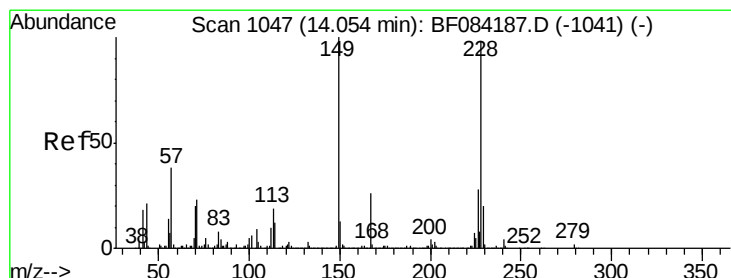
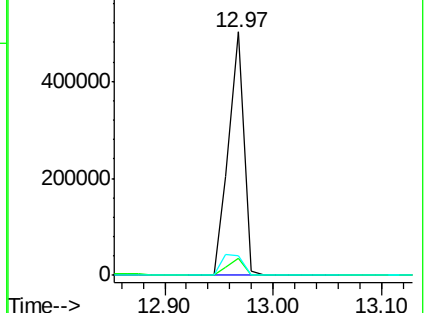
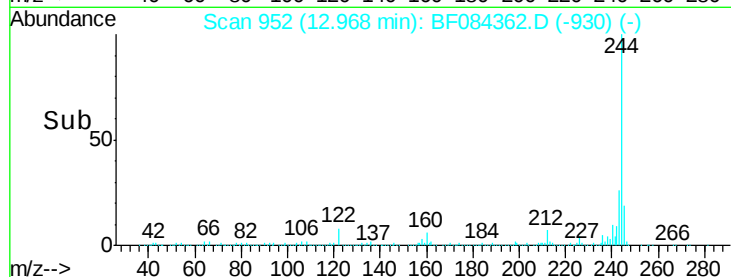
122 7.9 7.4 11.0



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: 4.03 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

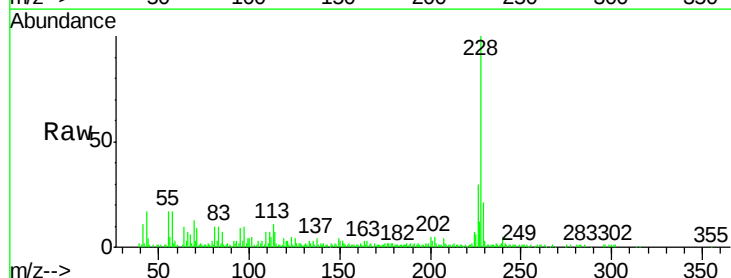
Tgt Ion:228 Resp: 126809

Ion Ratio Lower Upper

228 100

226 29.5 21.8 32.6

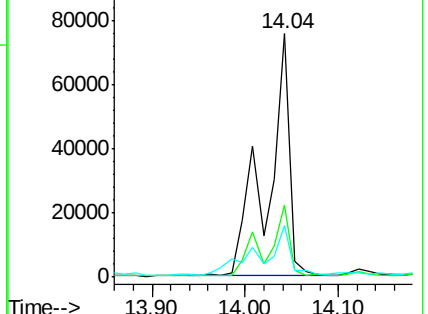
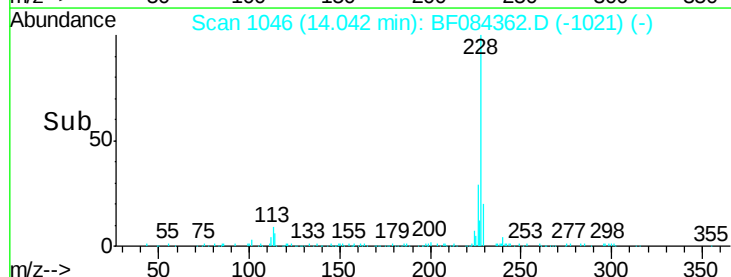
229 21.0 15.8 23.8

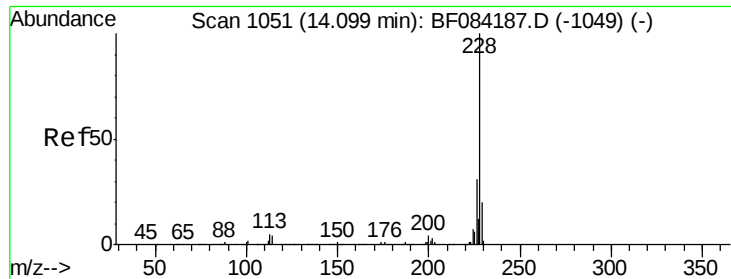


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.19 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.06 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

Instrument :

BNA_F

ClientSampleId :

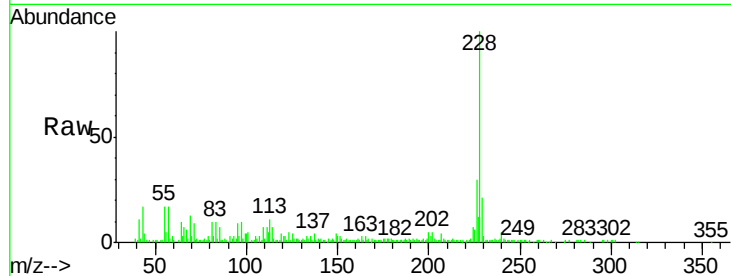
Tot Ion:228 Resp: 126809

Ion Ratio Lower Upper

228 100

226 29.5 24.3 36.5

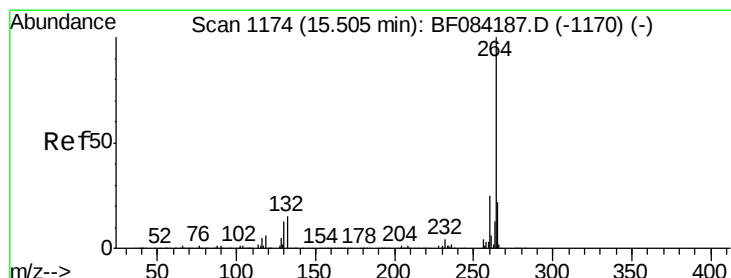
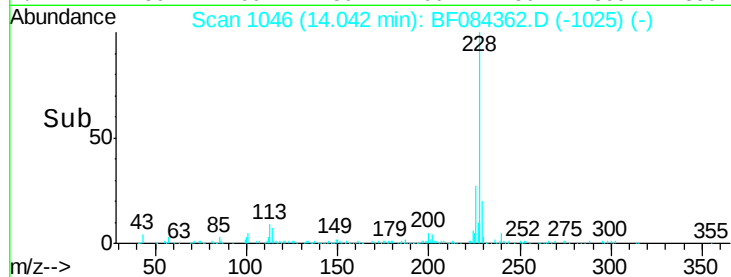
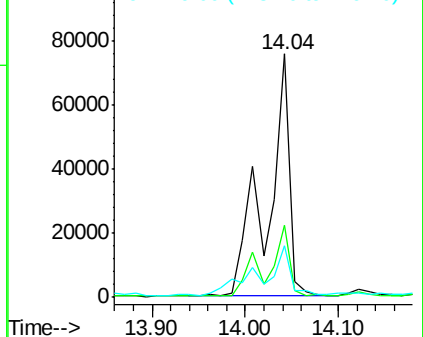
229 21.0 16.1 24.1



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.45 min Scan# 1169

Delta R.T. -0.06 min

Lab File: BF084362.D

Acq: 10 Jan 2016 13:59

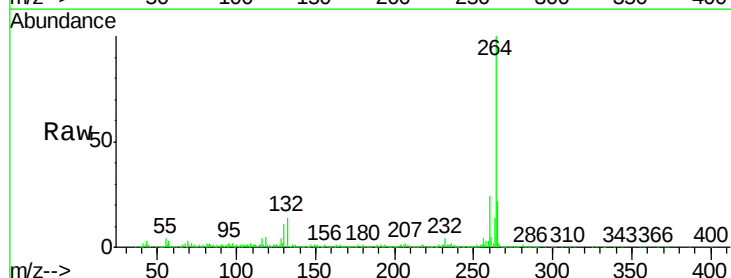
Tgt Ion:264 Resp: 467149

Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.2

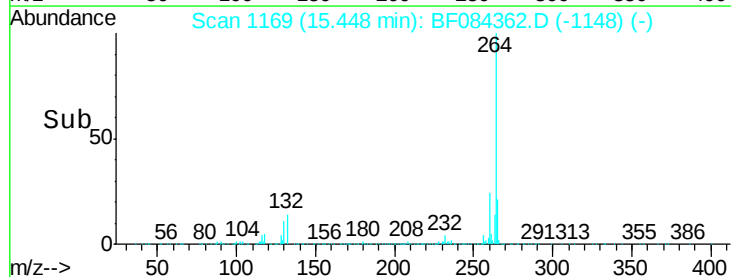
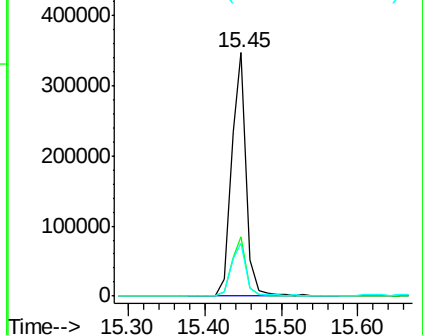
265 21.5 17.8 26.6

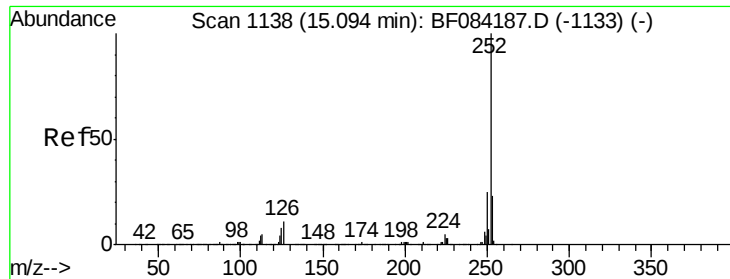


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

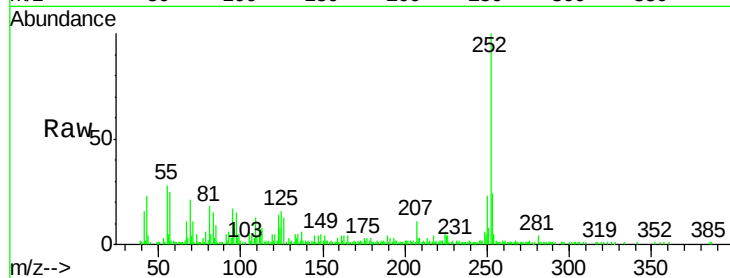




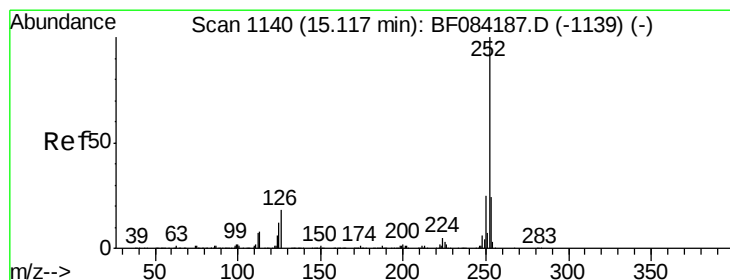
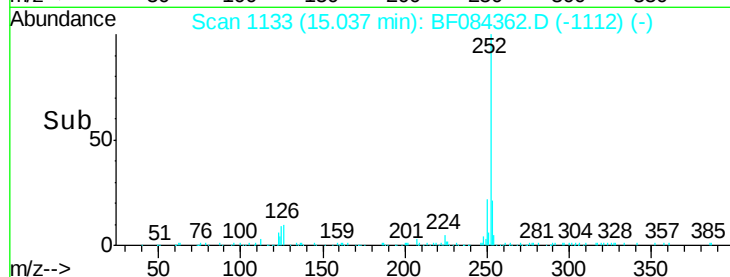
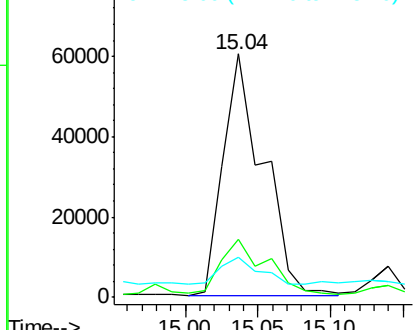
#87
Benzo(b)fluoranthene
Concen: 3.80 ng
RT: 15.04 min Scan# 1133
Delta R.T. -0.06 min
Lab File: BF084362.D
Acq: 10 Jan 2016 13:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.3	25.9
125	16.3	6.5	9.7#

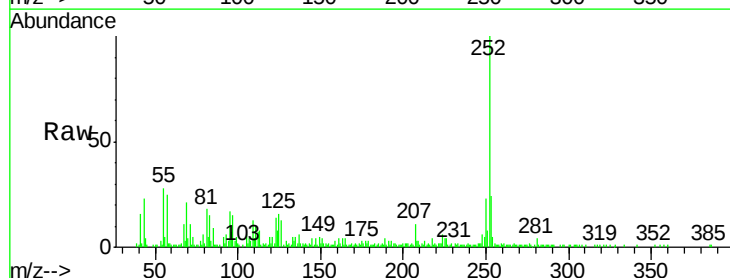


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88
Benzo(k)fluoranthene
Concen: 4.64 ng
RT: 15.04 min Scan# 1133
Delta R.T. -0.08 min
Lab File: BF084362.D
Acq: 10 Jan 2016 13:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	16.3	9.0	13.6#



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

