

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
 Data File : BF088424.D
 Acq On : 26 Jun 2016 17:59
 Operator : UM/SJ
 Sample : H3663-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Jun 27 03:56:21 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	6.55	152	74974	20.00	ng	-0.06
21) Naphthalene-d8	7.84	136	304934	20.00	ng	-0.06
38) Acenaphthene-d10	9.58	164	143472	20.00	ng	-0.07
63) Phenanthrene-d10	11.05	188	256985	20.00	ng	-0.07
75) Chrysene-d12	13.68	240	176846	20.00	ng	-0.07
86) Perylene-d12	15.03	264	156359	20.00	ng	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.14	112	559126	127.49	ng	-0.03
7) Phenol-d6	6.22	99	670169	126.09	ng	-0.05
23) Nitrobenzene-d5	7.12	82	443275	84.89	ng	-0.06
41) 2,4,6-Tribromophenol	10.36	330	145150	95.81	ng	-0.07
44) 2-Fluorobiphenyl	8.91	172	691674	75.09	ng	-0.06
78) Terphenyl-d14	12.64	244	505654	65.06	ng	-0.06

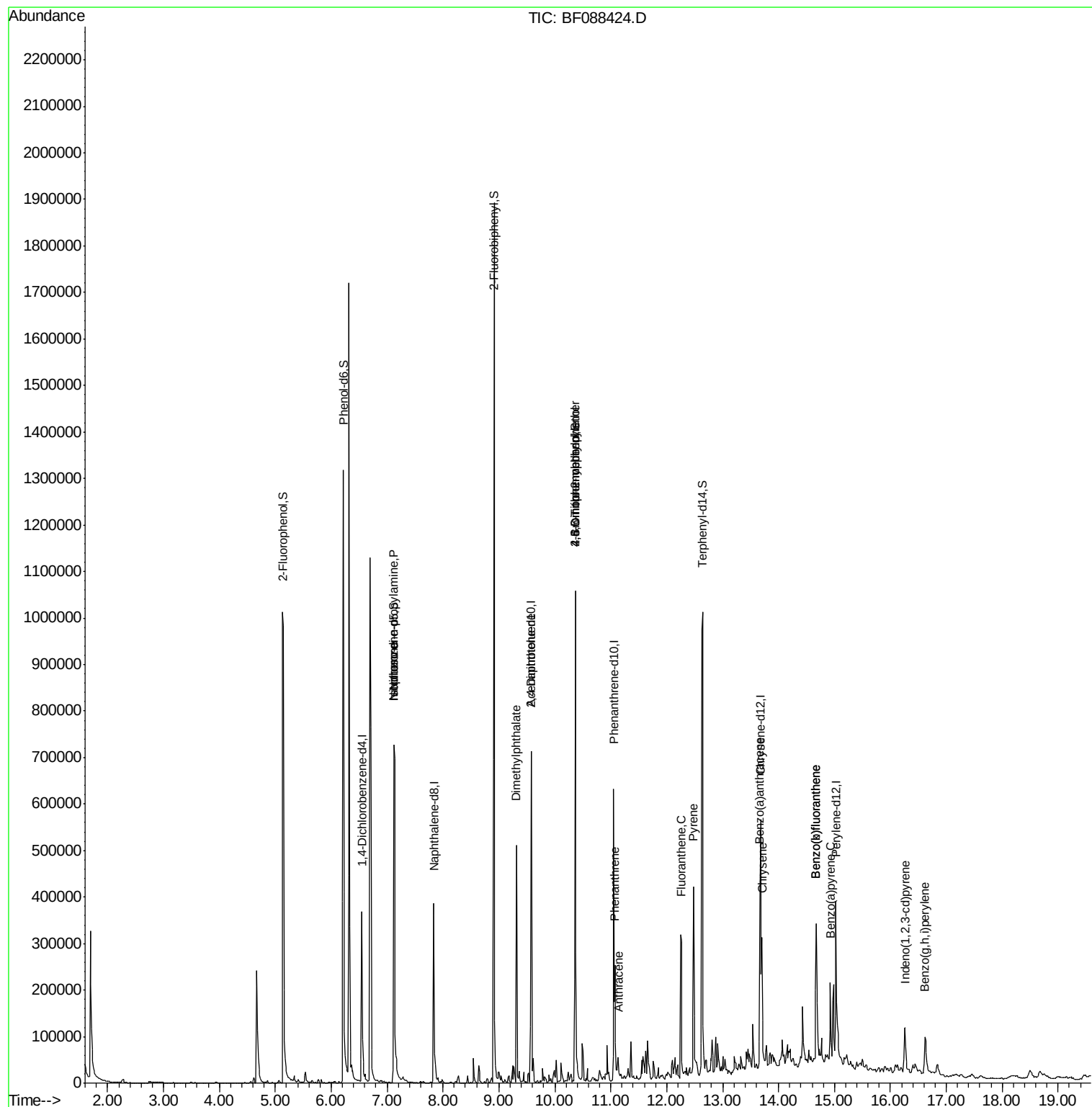
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.23	94	1903	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.12	70	55302	16.26	ng	72
25) Isophorone	7.12	82	421026	43.53	ng	65
45) 1,1'-Biphenyl	9.02	154	1997	Below Cal		90
49) Dimethylphthalate	9.31	163	210873	20.29	ng	99
56) 2,4-Dinitrotoluene	9.58	165	18684	6.11	ng	38
57) Fluorene	10.12	166	5535	Below Cal		98
64) 4,6-Dinitro-2-methylphenol	10.36	198	269	2.32	ng	1
66) 4-Bromophenyl-phenylether	10.36	248	8823	3.20	ng	1
70) Phenanthrene	11.07	178	95666	7.09	ng	98
71) Anthracene	11.13	178	28097	2.07	ng	96
74) Fluoranthene	12.26	202	198372	13.94	ng	94
77) Pyrene	12.48	202	184824	14.08	ng	98
80) Benzo(a)anthracene	13.67	228	119336	11.84	ng	99
82) Chrysene	13.70	228	95024	10.02	ng	97
85) Indeno(1,2,3-cd)pyrene	16.26	276	75735	8.60	ng	100
87) Benzo(b)fluoranthene	14.67	252	207546	19.04	ng	96
88) Benzo(k)fluoranthene	14.67	252	207546	25.25	ng	98
89) Benzo(a)pyrene	14.93	252	74156	8.41	ng	99
91) Benzo(a,h,i)perylene	16.62	276	72941	8.66	ng	94

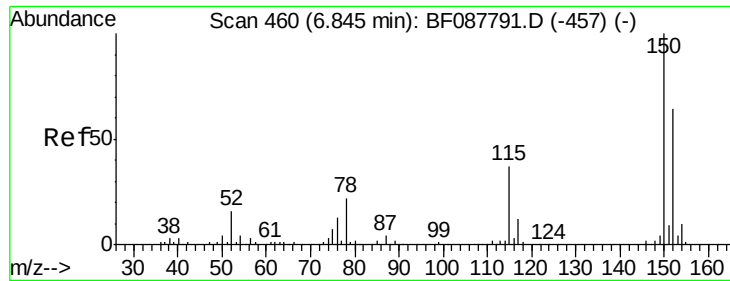
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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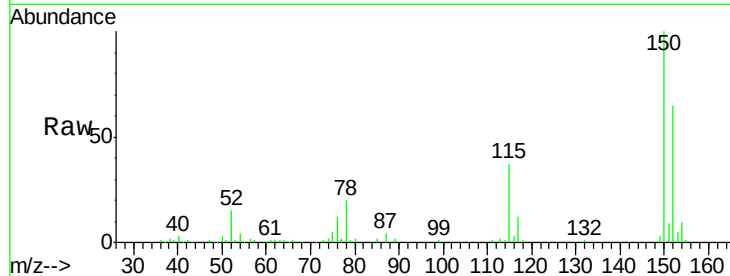


#1

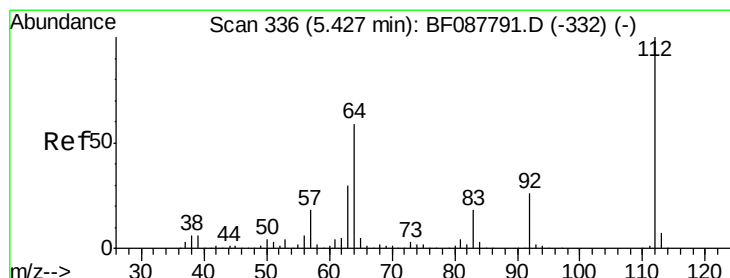
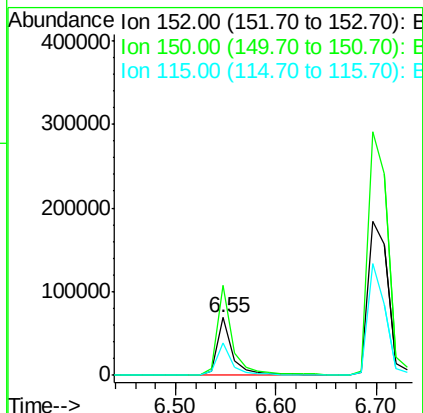
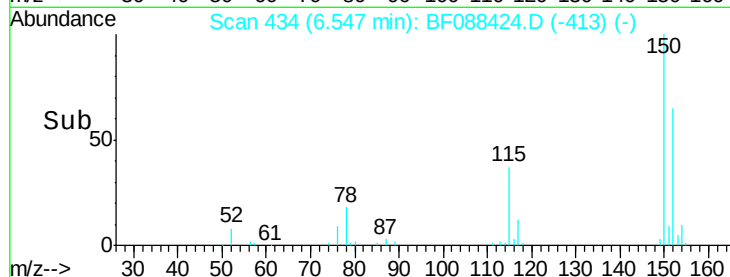
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.55 min Scan# 434
 Delta R.T. -0.06 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:152 Resp: 74974
 Ion Ratio Lower Upper
 152 100
 150 154.4 123.8 185.6
 115 56.8 39.6 59.4



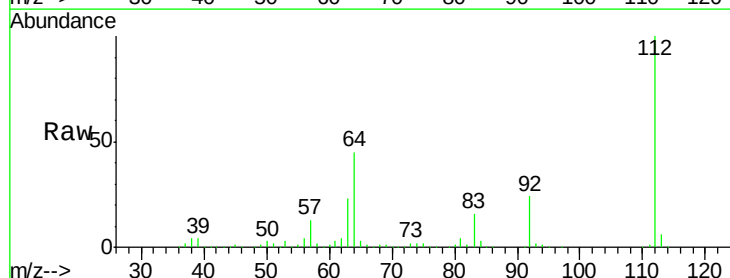
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



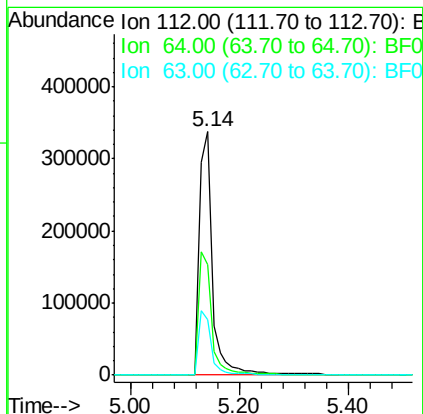
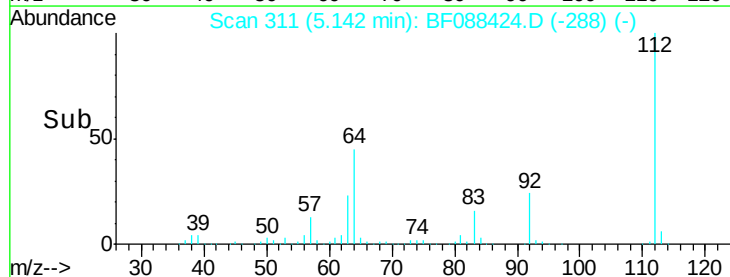
#5

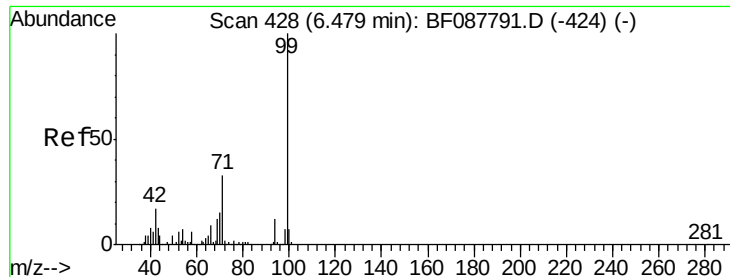
2-Fluorophenol
 Concen: 127.49 ng
 RT: 5.14 min Scan# 311
 Delta R.T. -0.03 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

Tgt Ion:112 Resp: 559126
 Ion Ratio Lower Upper
 112 100
 64 45.2 42.2 63.2
 63 23.0 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: 126.09 ng

RT: 6.22 min Scan# 405

Delta R.T. -0.05 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

Instrument :

BNA_G

ClientSampleId :

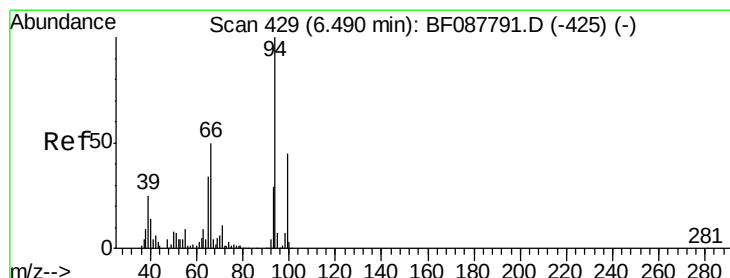
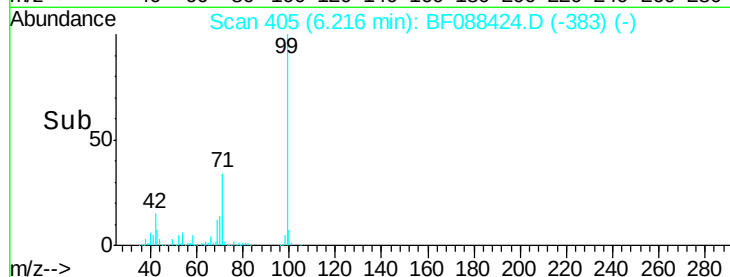
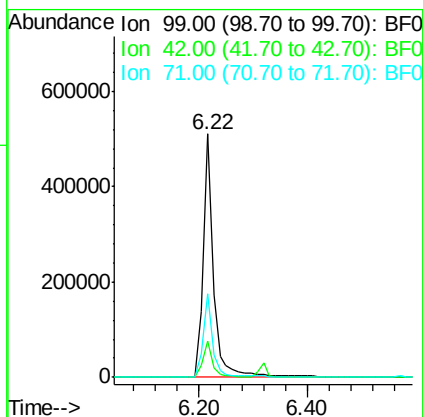
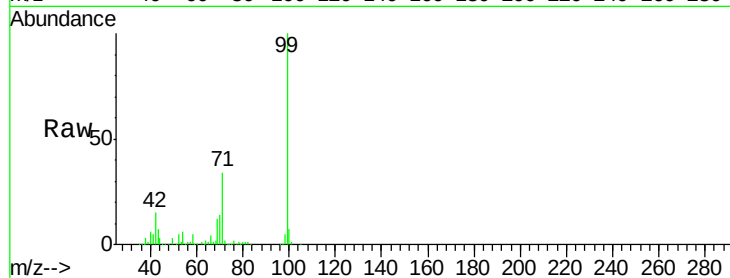
Tot Ion: 99 Resp: 670169

Ion Ratio Lower Upper

99 100

42 14.9 12.2 18.2

71 34.3 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.23 min Scan# 406

Delta R.T. -0.05 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

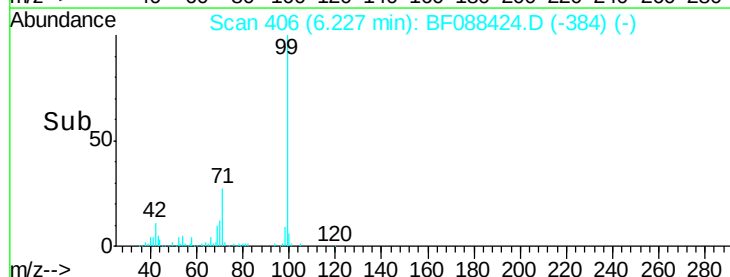
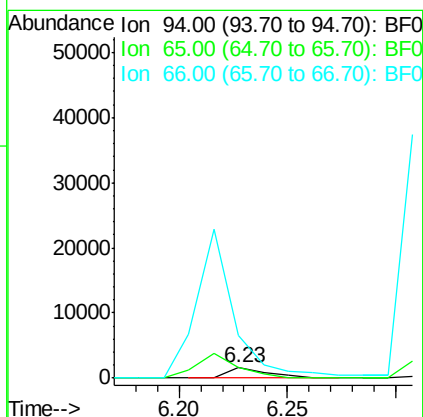
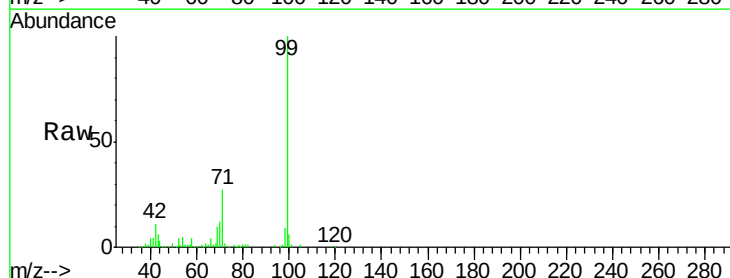
Tgt Ion: 94 Resp: 1903

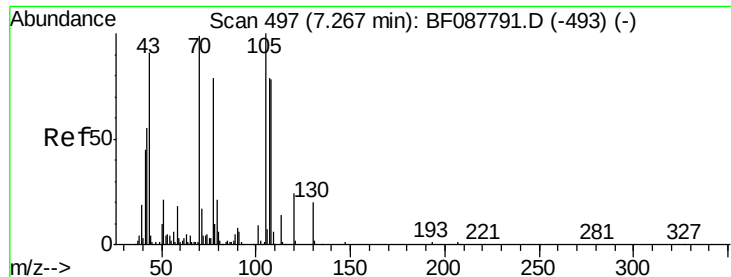
Ion Ratio Lower Upper

94 100

65 105.4 5.9 45.9#

66 422.0 14.0 54.0#

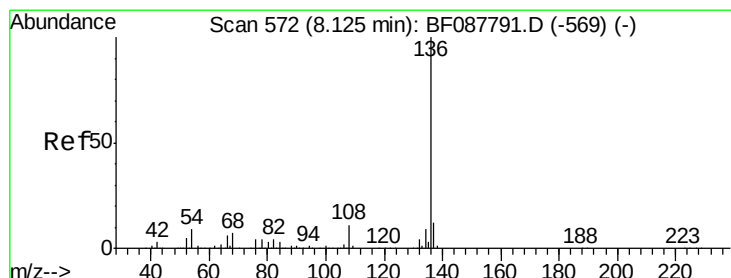
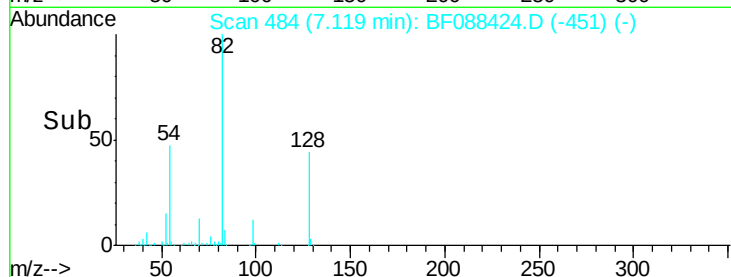
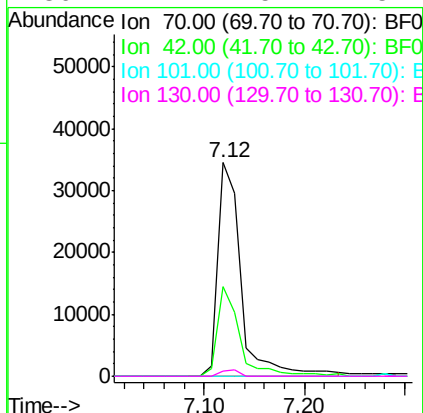
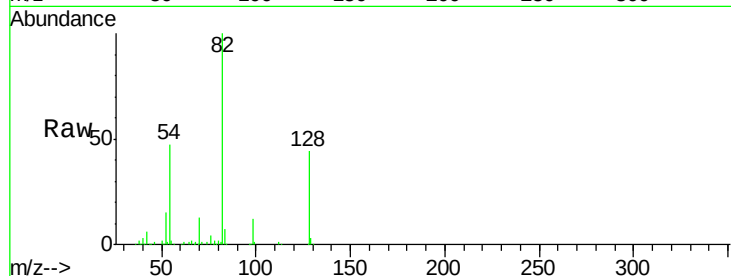




#19
n-Nitroso-di-n-propylamine
Concen: 16.26 ng
RT: 7.12 min Scan# 484
Delta R.T. 0.08 min
Lab File: BF088424.D
Acq: 26 Jun 2016 17:59

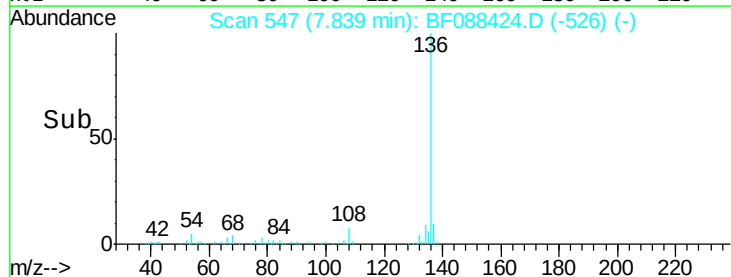
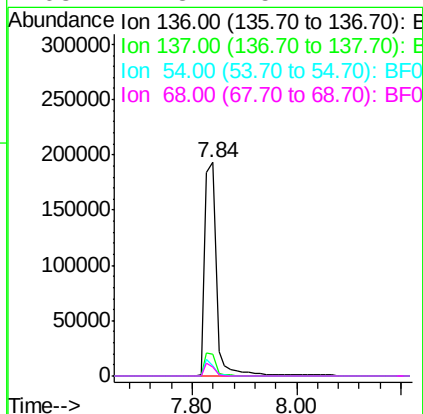
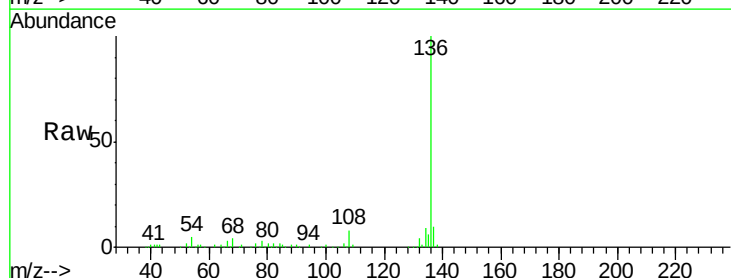
Instrument :
BNA_G
ClientSampleId :

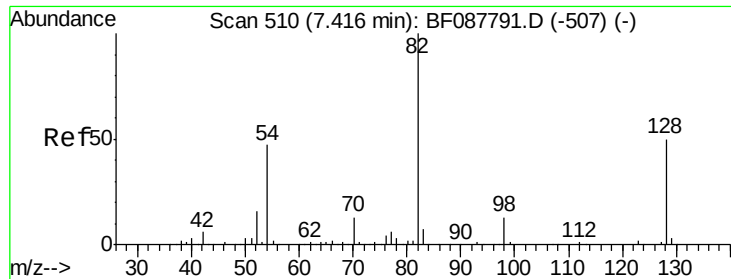
Tot Ion: 70 Resp: 55302
Ion Ratio Lower Upper
70 100
42 42.3 49.6 74.4#
101 0.0 7.1 10.7#
130 2.2 15.4 23.2#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.84 min Scan# 547
Delta R.T. -0.06 min
Lab File: BF088424.D
Acq: 26 Jun 2016 17:59

Tgt Ion:136 Resp: 304934
Ion Ratio Lower Upper
136 100
137 10.4 9.1 13.7
54 4.8 6.6 10.0#
68 4.3 5.1 7.7#

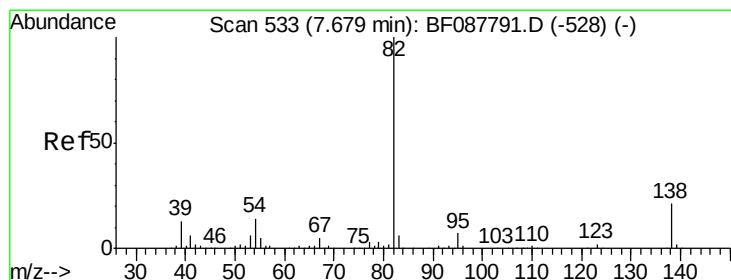
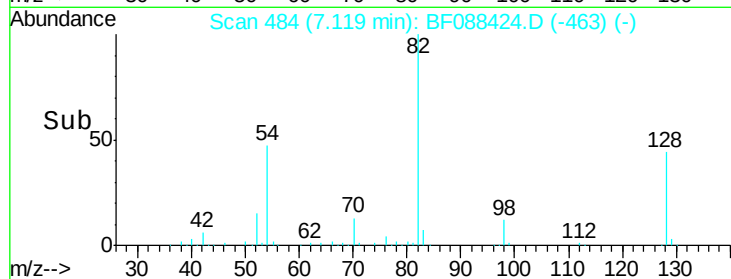
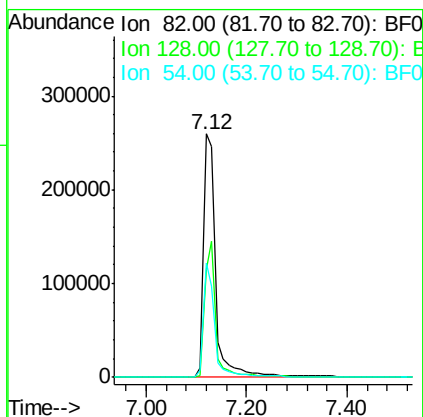
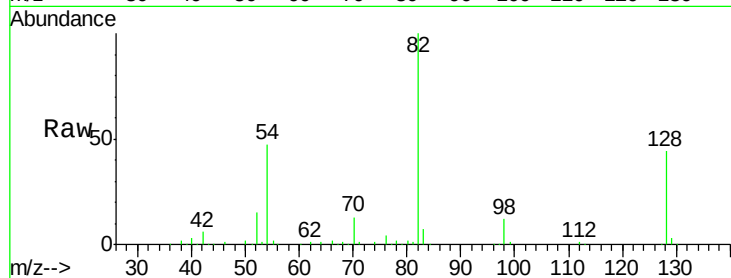




#23
 Nitrobenzene-d5
 Concen: 84.89 ng
 RT: 7.12 min Scan# 484
 Delta R.T. -0.06 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

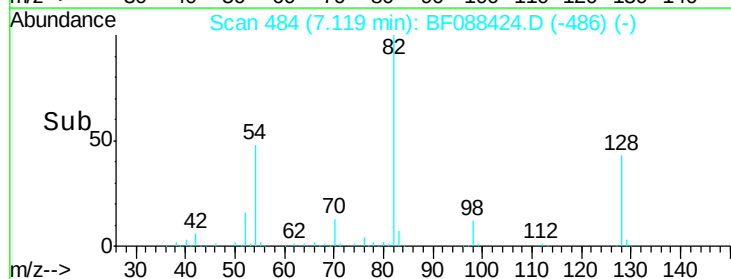
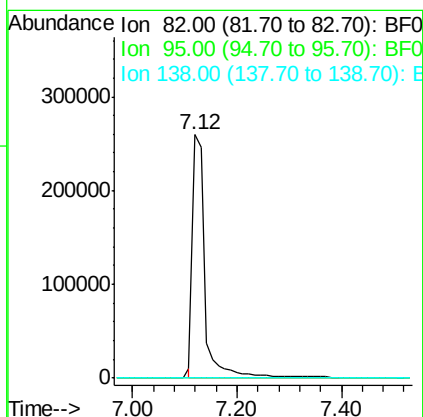
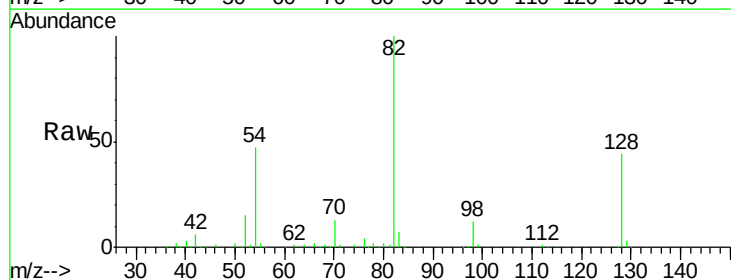
Instrument :
 BNA_G
 ClientSampleId :

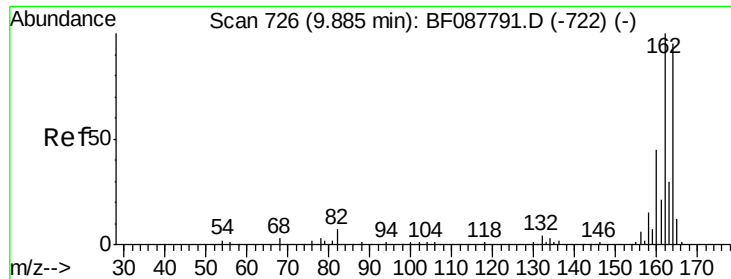
Tot Ion: 82 Resp: 443275
 Ion Ratio Lower Upper
 82 100
 128 44.1 35.9 53.9
 54 47.2 40.9 61.3



#25
 Isophorone
 Concen: 43.53 ng
 RT: 7.12 min Scan# 484
 Delta R.T. -0.32 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

Tgt Ion: 82 Resp: 421026
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.4 8.2#
 138 0.0 14.6 21.8#

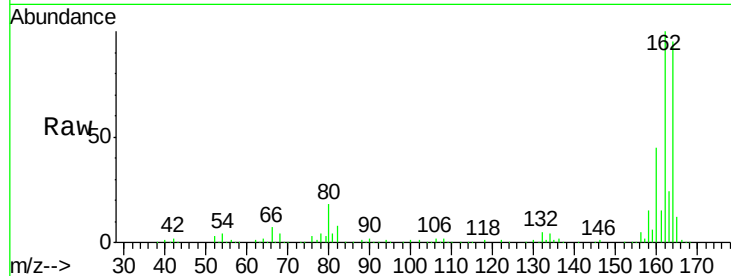




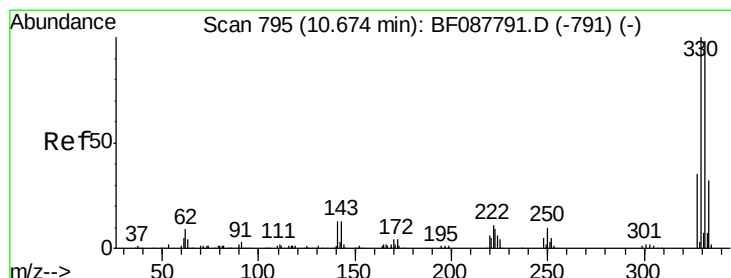
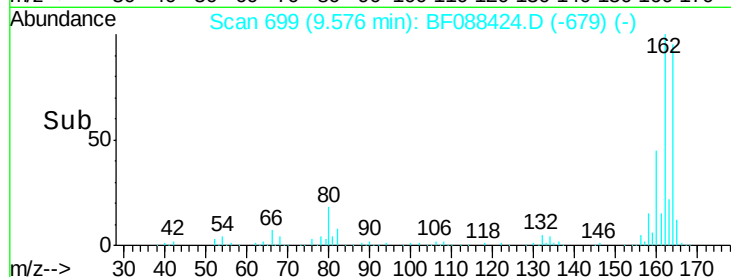
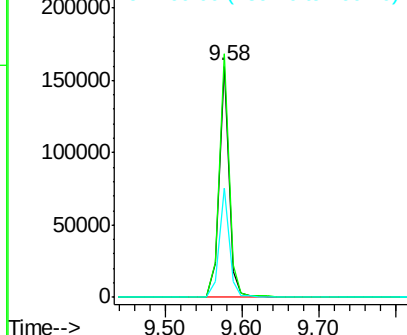
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.07 min
Lab File: BF088424.D
Acq: 26 Jun 2016 17:59

Instrument :
BNA_G
ClientSampleId :

Tot Ion:164 Resp: 143472
Ion Ratio Lower Upper
164 100
162 105.2 85.4 128.2
160 47.1 39.5 59.3

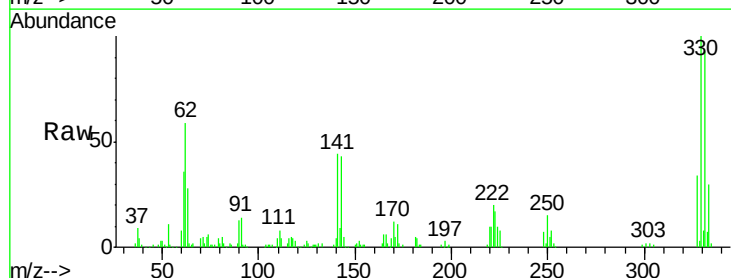


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

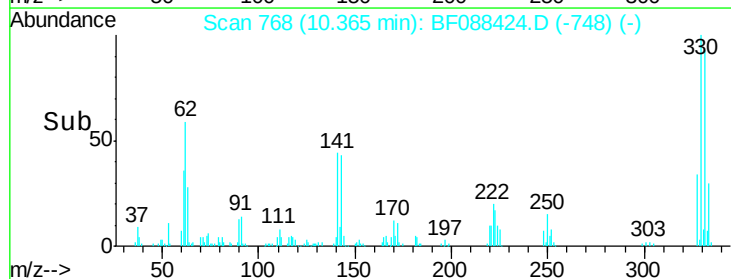
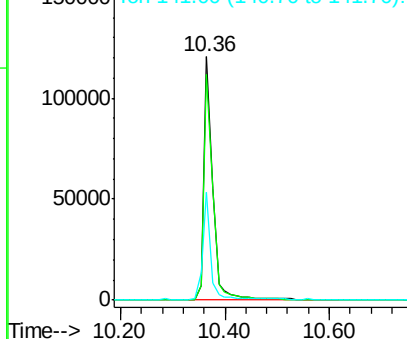


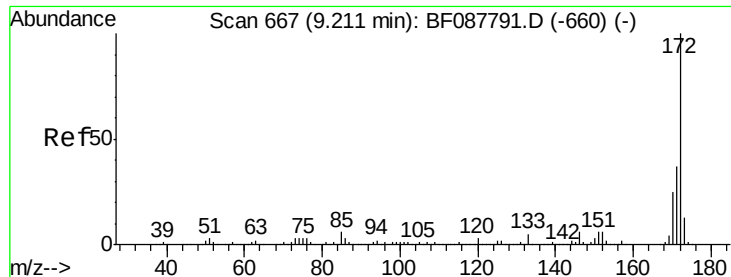
#41
2,4,6-Tribromophenol
Concen: 95.81 ng
RT: 10.36 min Scan# 768
Delta R.T. -0.07 min
Lab File: BF088424.D
Acq: 26 Jun 2016 17:59

Tgt Ion:330 Resp: 145150
Ion Ratio Lower Upper
330 100
332 94.9 0.0 0.0#
141 40.3 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

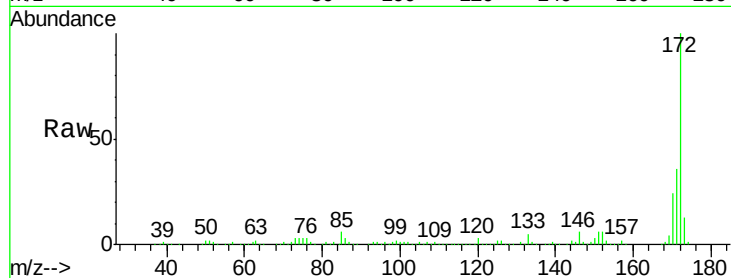




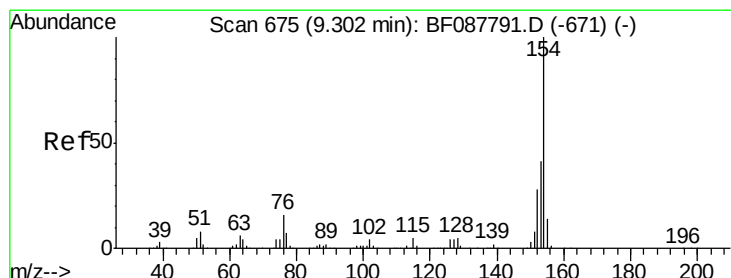
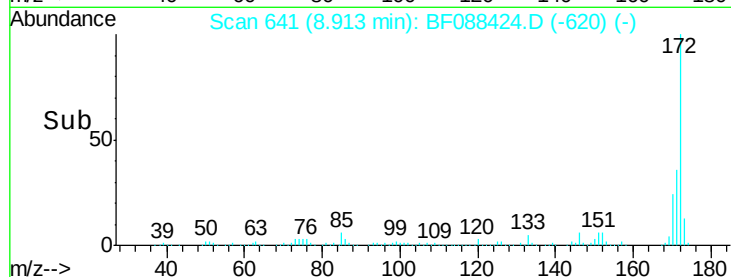
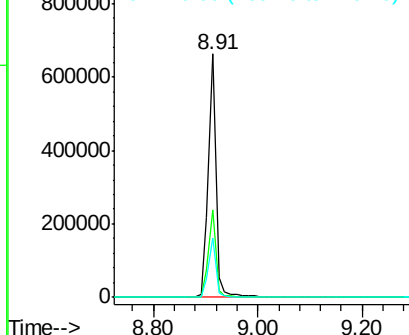
#44
2-Fluorobiphenyl
Concen: 75.09 na
RT: 8.91 min Scan# 641
Delta R.T. -0.06 min
Lab File: BF088424.D
Acq: 26 Jun 2016 17:59

Instrument :
BNA_G
ClientSampleId :

Tot Ion:172 Resp: 691674
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.4 19.2 28.8

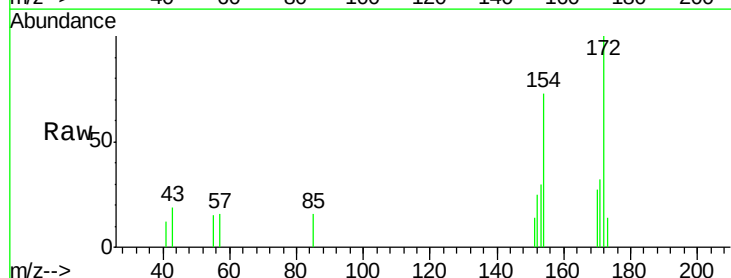


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

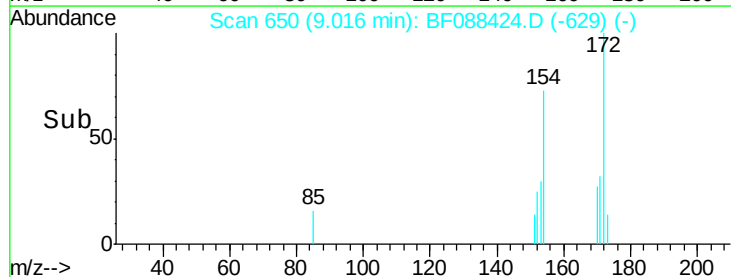
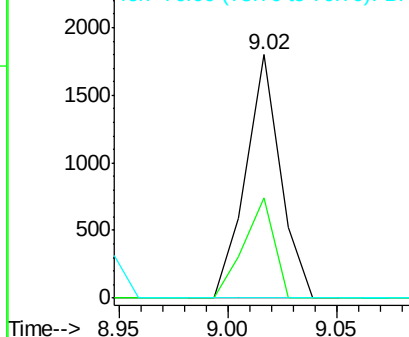


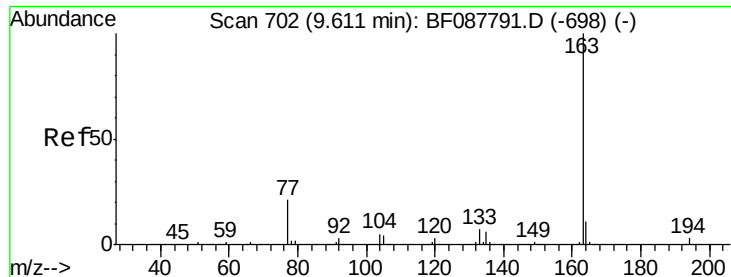
#45
1,1'-Biphenyl
Concen: Below Cal
RT: 9.02 min Scan# 650
Delta R.T. -0.06 min
Lab File: BF088424.D
Acq: 26 Jun 2016 17:59

Tgt Ion:154 Resp: 1997
Ion Ratio Lower Upper
154 100
153 41.2 20.6 60.6
76 0.0 0.0 35.1



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





#49

Dimethylphthalate

Concen: 20.29 ng

RT: 9.31 min Scan# 676

Delta R.T. -0.07 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

Instrument :

BNA_G

ClientSampleId :

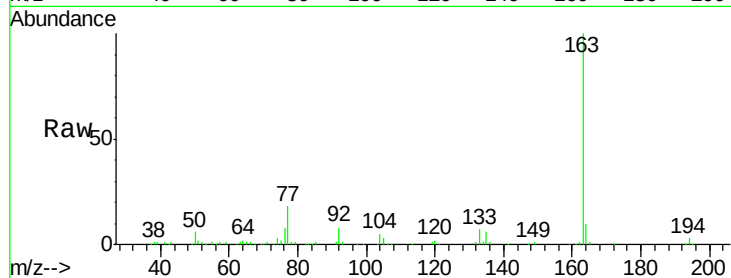
Tot Ion:163 Resp: 210873

Ion Ratio Lower Upper

163 100

194 3.3 2.8 4.2

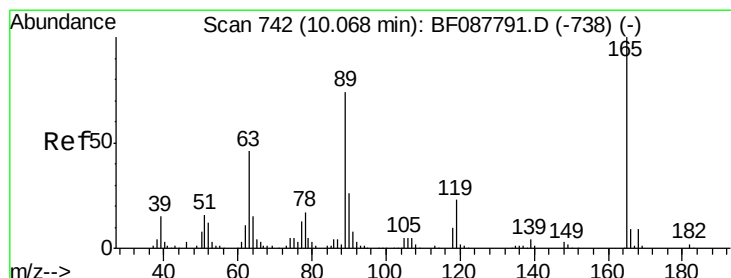
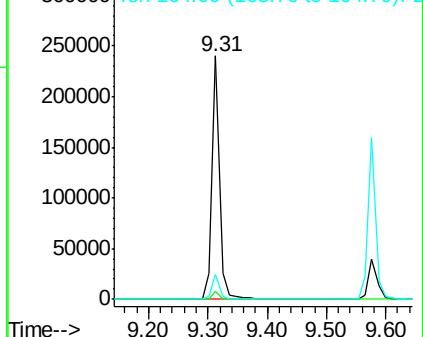
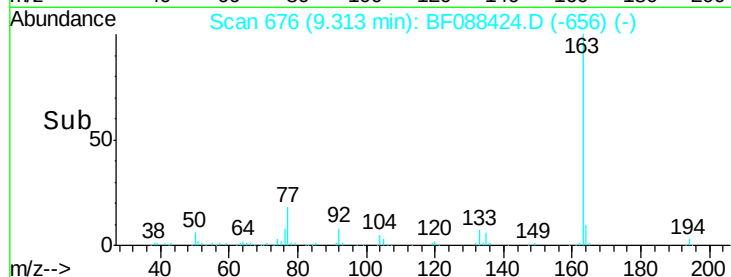
164 10.1 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 6.11 ng

RT: 9.58 min Scan# 699

Delta R.T. -0.27 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

Tgt Ion:165 Resp: 18684

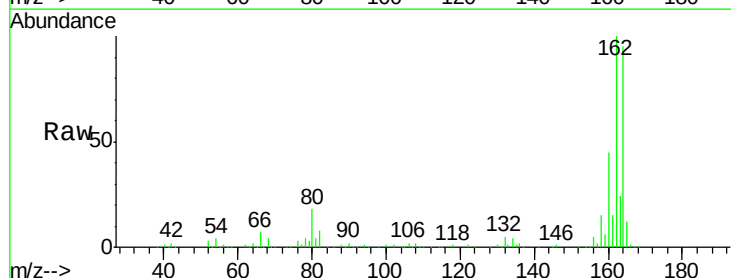
Ion Ratio Lower Upper

165 100

63 1.4 22.0 33.0#

89 1.7 41.1 61.7#

182 0.0 2.0 3.0#

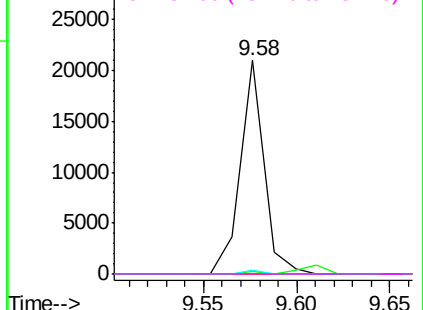
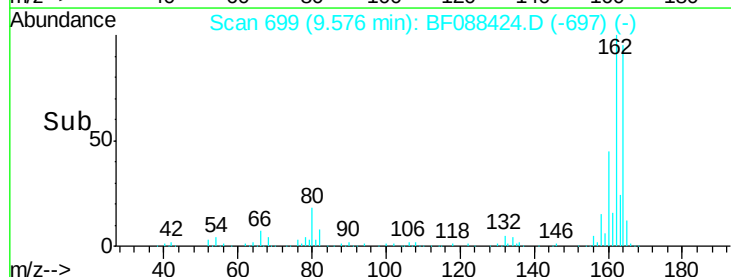


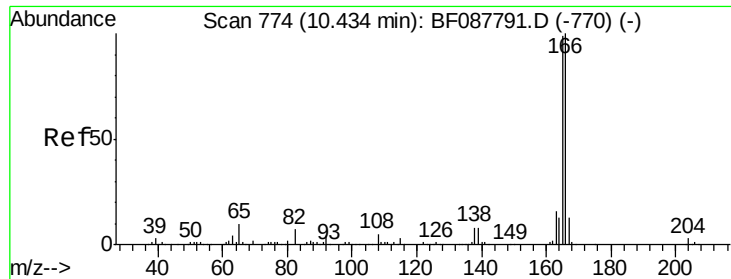
Abundance Ion 165.00 (164.70 to 165.70): E

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

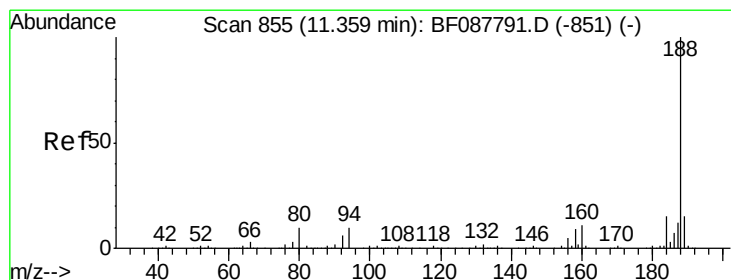
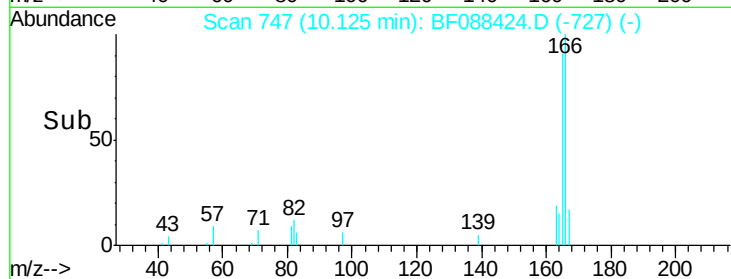
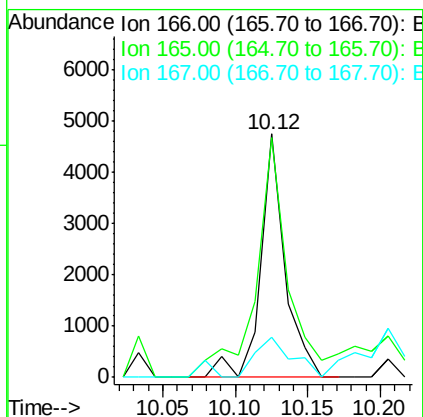
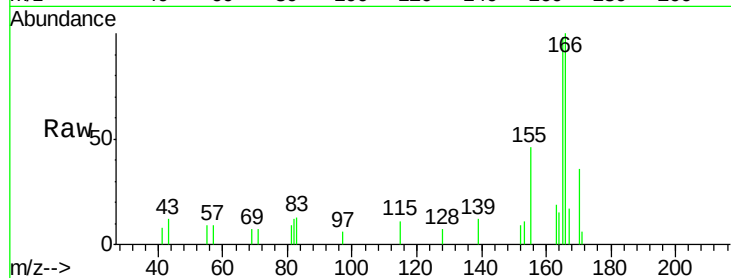




#57
 Fluorene
 Concen: Below Cal
 RT: 10.12 min Scan# 747
 Delta R.T. -0.07 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

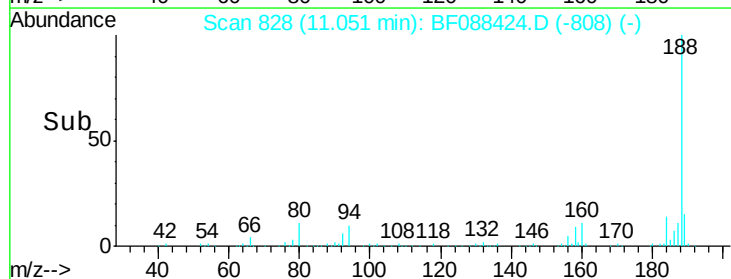
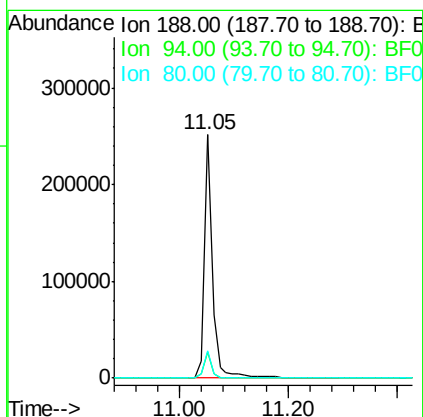
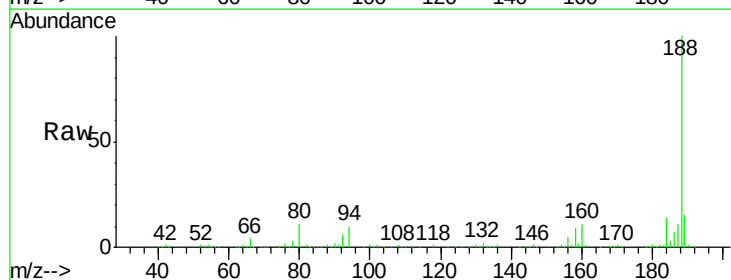
Instrument :
 BNA_G
 ClientSampleId :

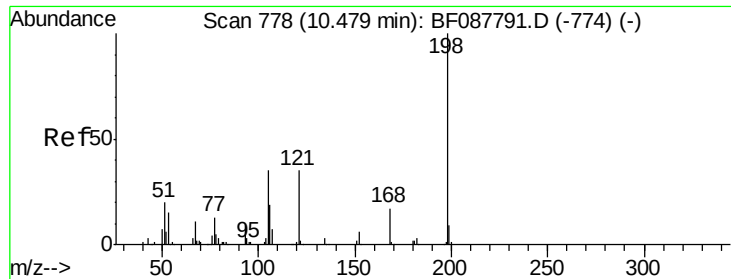
Tot Ion:166 Resp: 5535
 Ion Ratio Lower Upper
 166 100
 165 98.4 77.8 116.8
 167 16.5 11.2 16.8



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.05 min Scan# 828
 Delta R.T. -0.07 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

Tgt Ion:188 Resp: 256985
 Ion Ratio Lower Upper
 188 100
 94 10.5 9.0 13.6
 80 11.1 10.0 15.0





#64

4,6-Dinitro-2-methylphenol

Concen: 2.32 ng

RT: 10.36 min Scan# 768

Delta R.T. 0.10 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

Instrument :

BNA_G

ClientSampled :

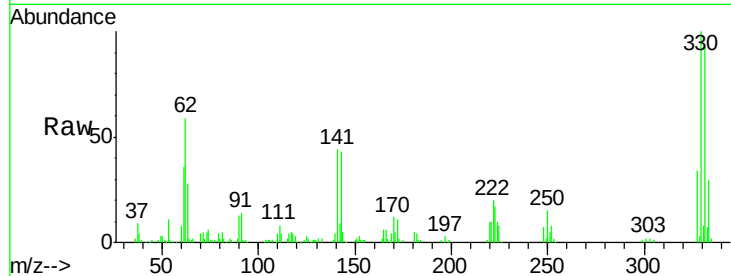
Tot Ion:198 Resp: 269

Ion Ratio Lower Upper

198 100

51 183.2 39.6 79.6#

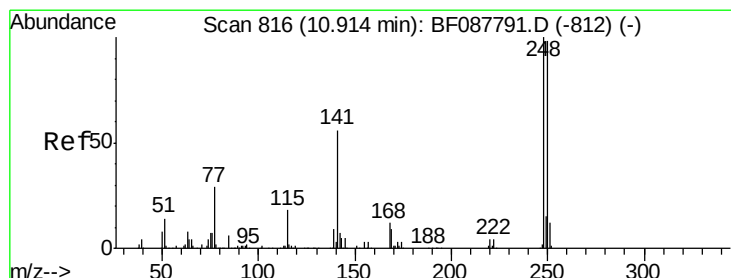
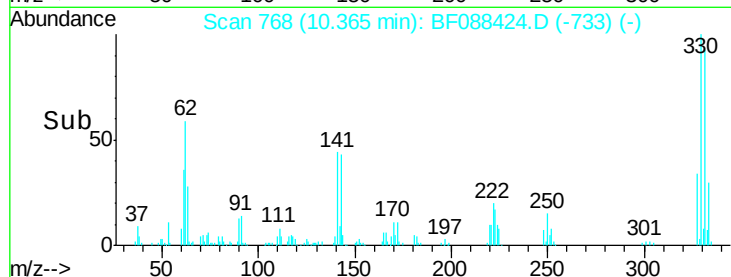
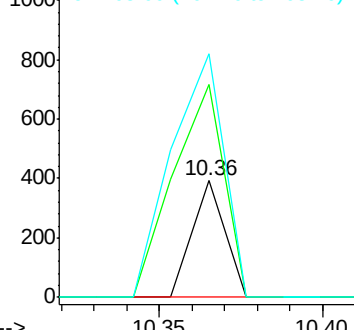
105 209.2 36.6 76.6#



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



#66

4-Bromophenyl-phenylether

Concen: 3.20 ng

RT: 10.36 min Scan# 768

Delta R.T. -0.31 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

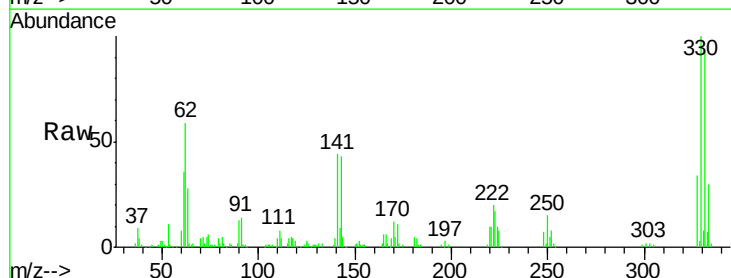
Tgt Ion:248 Resp: 8823

Ion Ratio Lower Upper

248 100

250 205.5 77.1 115.7#

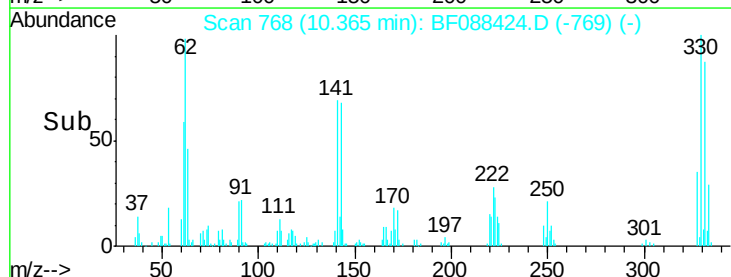
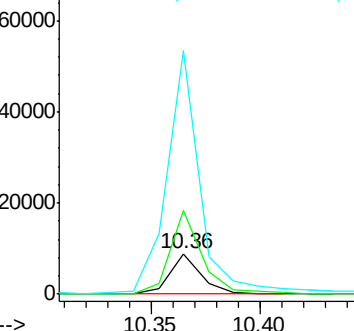
141 600.4 50.6 76.0#

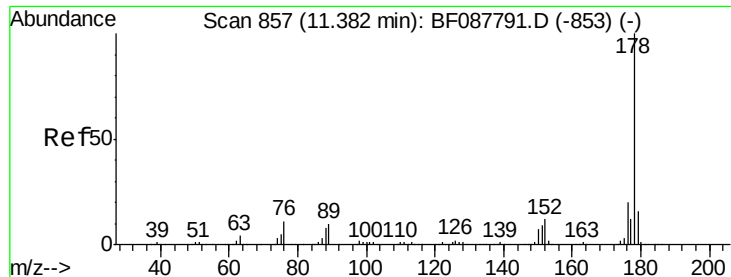


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

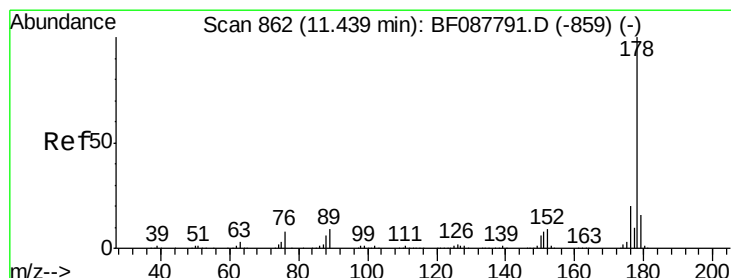
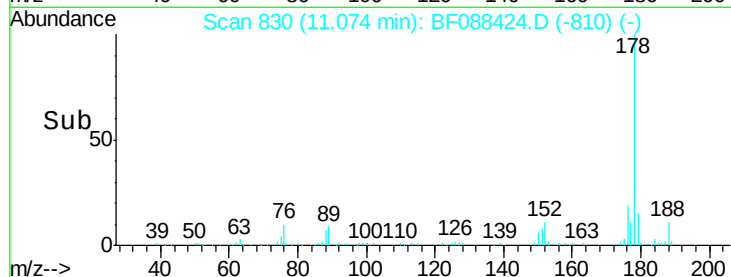
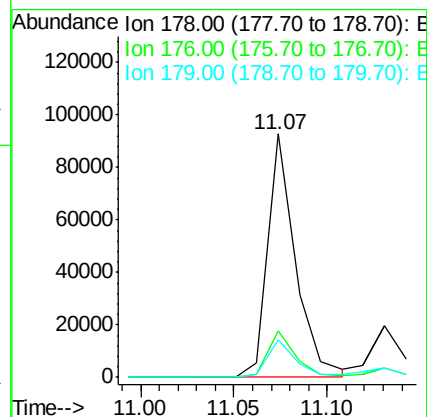
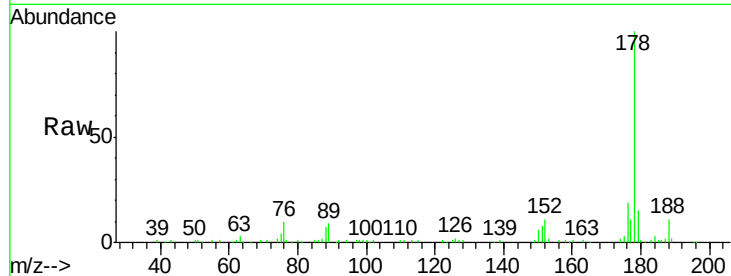




#70
Phenanthrene
Concen: 7.09 ng
RT: 11.07 min Scan# 830
Delta R.T. -0.07 min
Lab File: BF088424.D
Acq: 26 Jun 2016 17:59

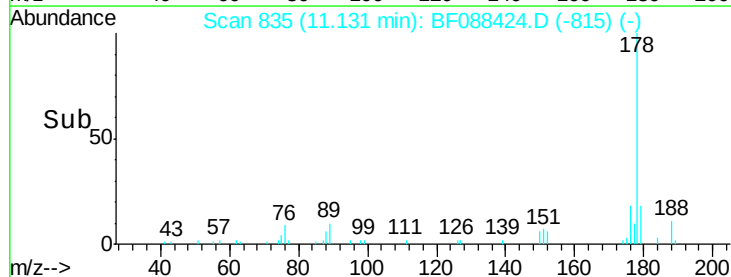
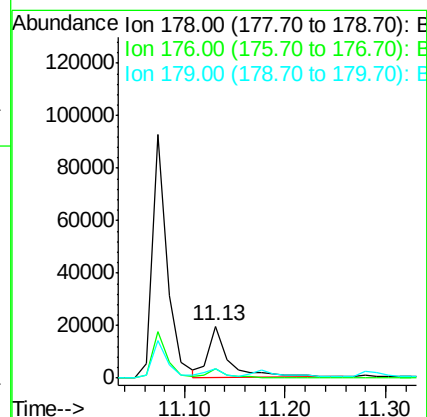
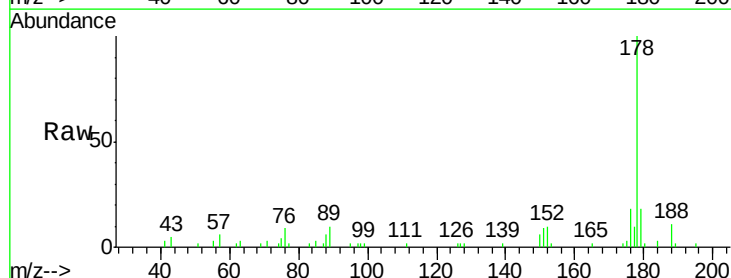
Instrument :
BNA_G
ClientSampleId :

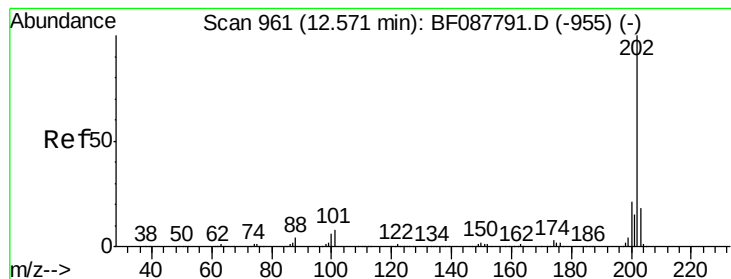
Tot Ion:178 Resp: 95666
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.6
179 15.4 13.0 19.4



#71
Anthracene
Concen: 2.07 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.07 min
Lab File: BF088424.D
Acq: 26 Jun 2016 17:59

Tgt Ion:178 Resp: 28097
Ion Ratio Lower Upper
178 100
176 18.0 15.6 23.4
179 17.8 12.8 19.2

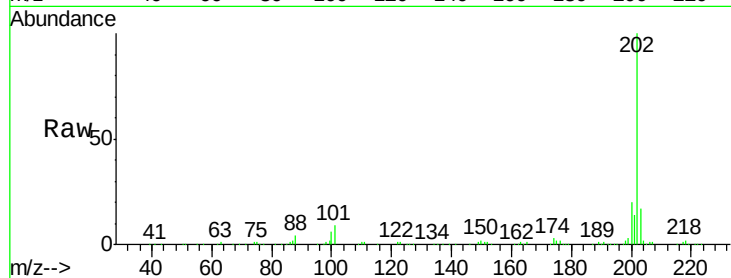




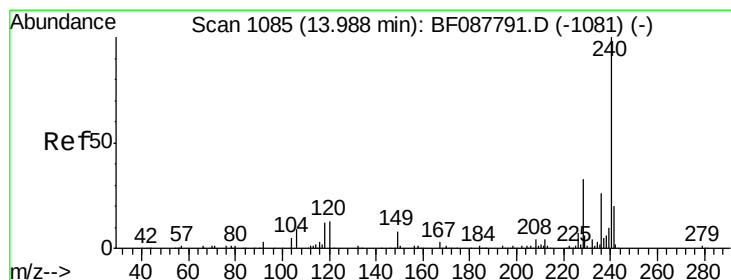
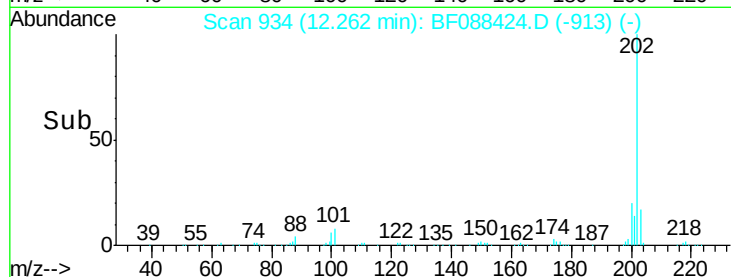
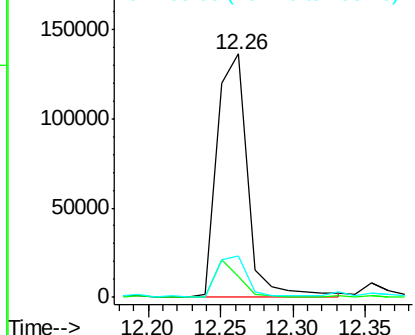
#74
 Fluoranthene
 Concen: 13.94 ng
 RT: 12.26 min Scan# 934
 Delta R.T. -0.06 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	8.5	0.0	33.1
203	17.0	0.0	38.1

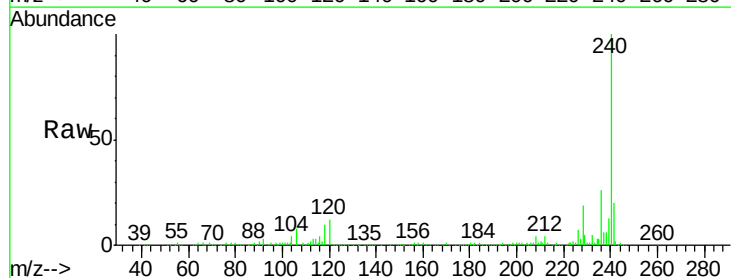


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

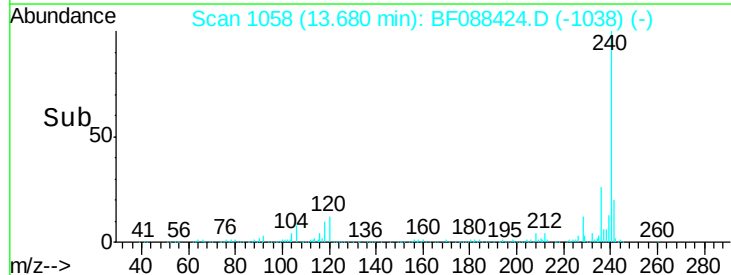
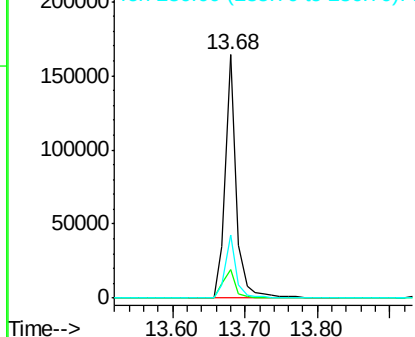


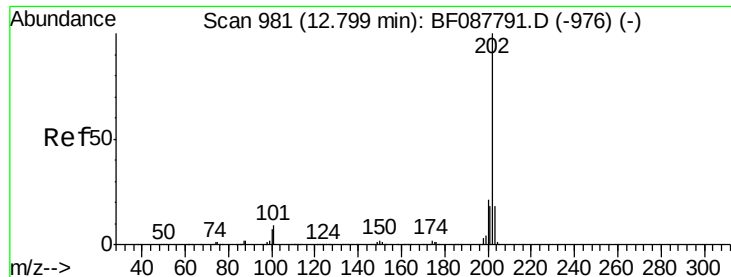
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.68 min Scan# 1058
 Delta R.T. -0.07 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.8	6.8	10.2#
236	25.8	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

Pvrene

Concen: 14.08 ng

RT: 12.48 min Scan# 953

Delta R.T. -0.07 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

Instrument :

BNA_G

ClientSampleId :

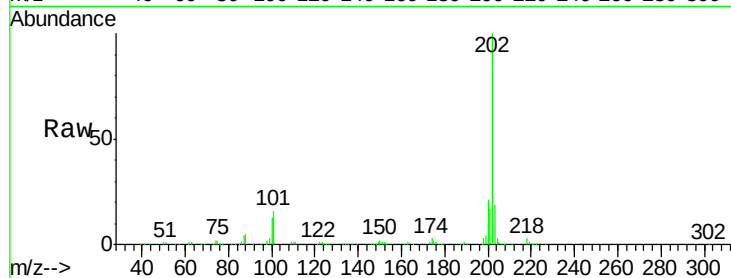
Tot Ion:202 Resp: 184824

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

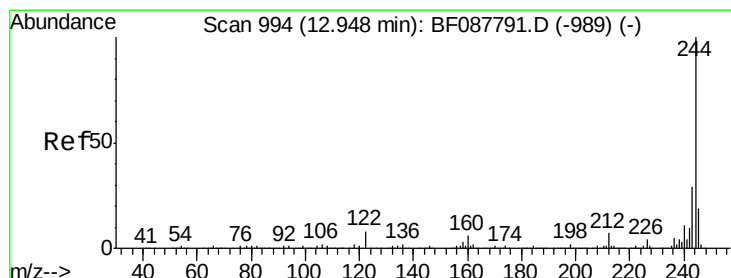
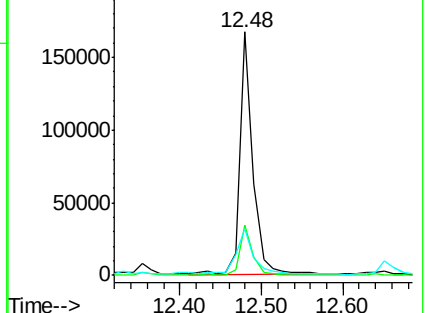
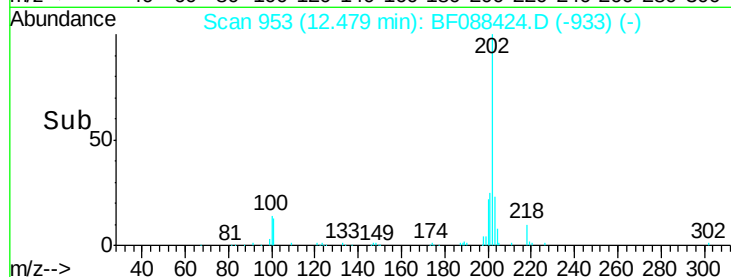
203 19.1 14.5 21.7



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: 65.06 ng

RT: 12.64 min Scan# 967

Delta R.T. -0.06 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

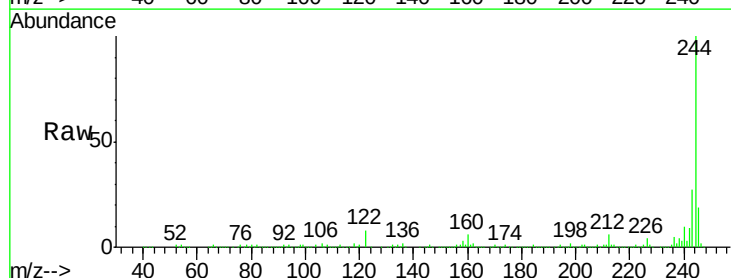
Tgt Ion:244 Resp: 505654

Ion Ratio Lower Upper

244 100

212 6.4 6.0 9.0

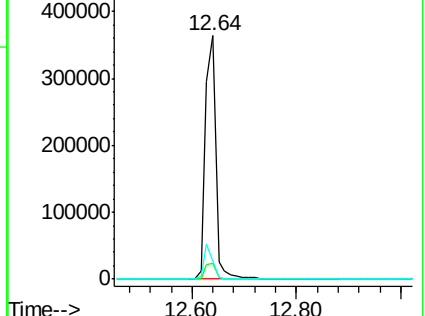
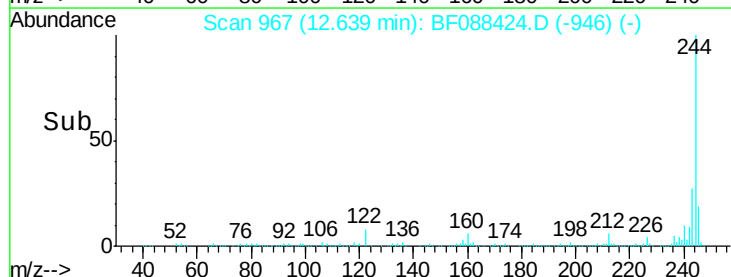
122 7.8 11.2 16.8#

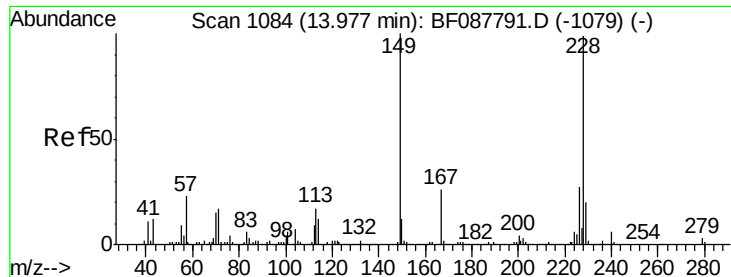


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.84 ng

RT: 13.67 min Scan# 1057

Delta R.T. -0.07 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

Instrument :

BNA_G

ClientSampleId :

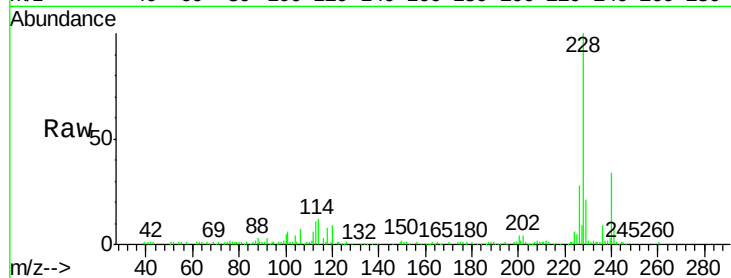
Tot Ion:228 Resp: 119336

Ion Ratio Lower Upper

228 100

226 28.0 22.3 33.5

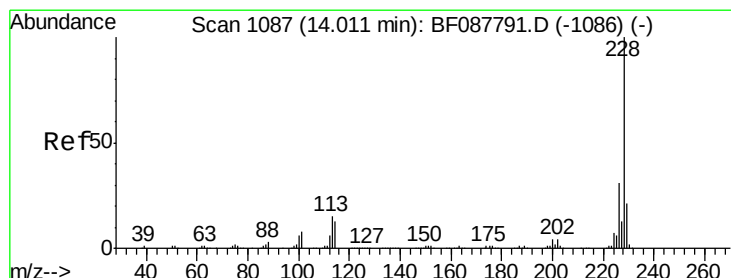
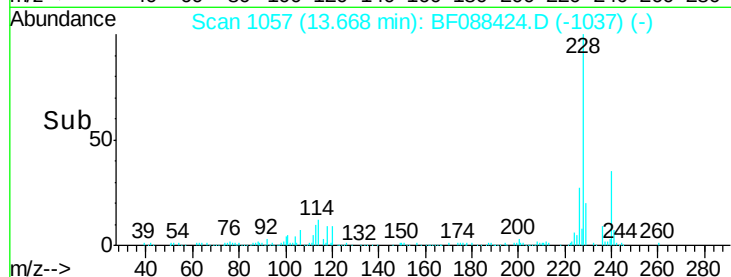
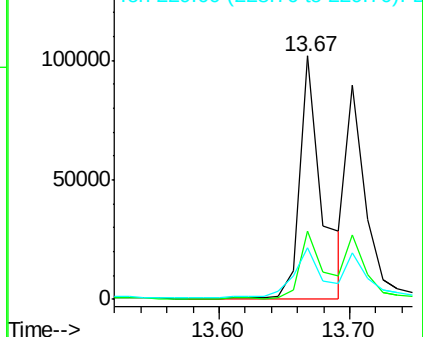
229 21.2 16.0 24.0



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: 10.02 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.07 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

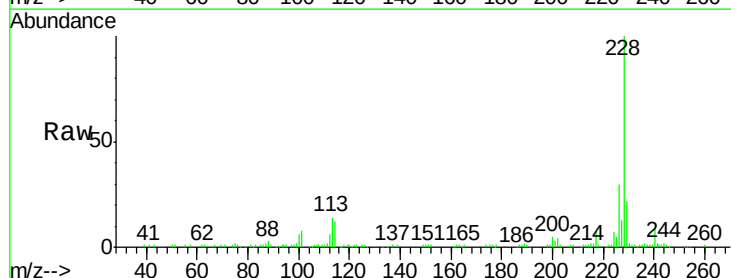
Tgt Ion:228 Resp: 95024

Ion Ratio Lower Upper

228 100

226 29.8 25.4 38.2

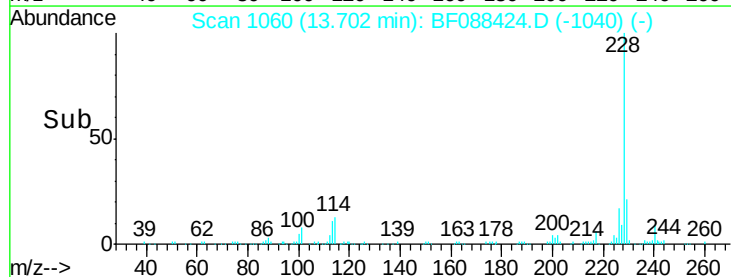
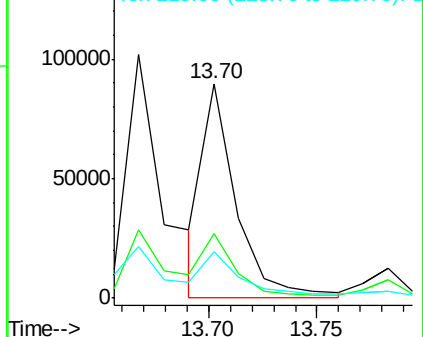
229 21.8 16.3 24.5

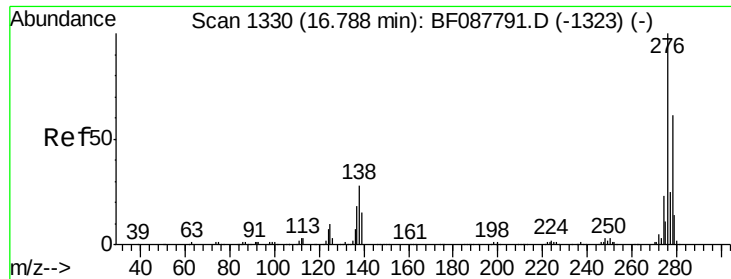


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

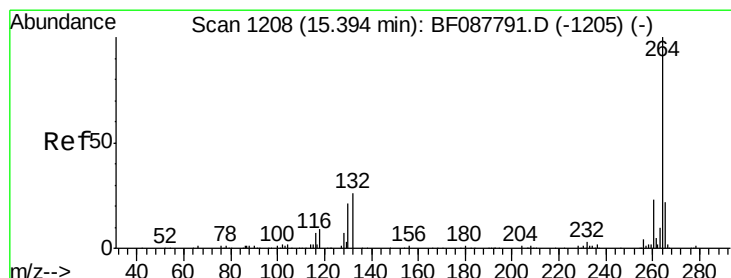
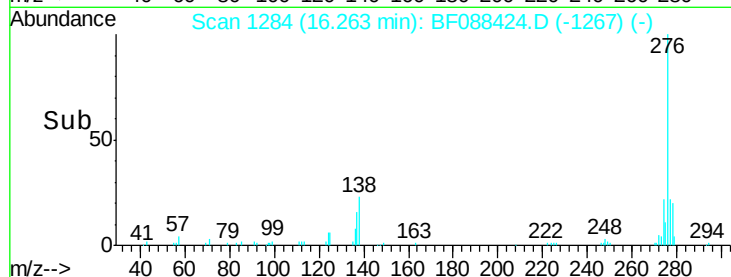
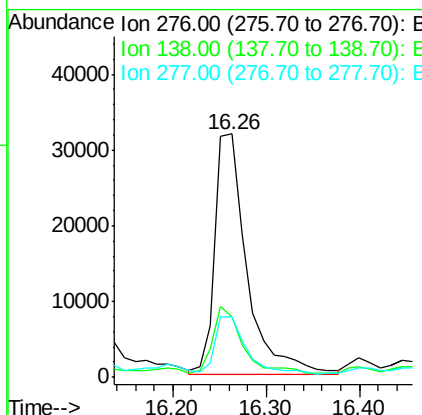
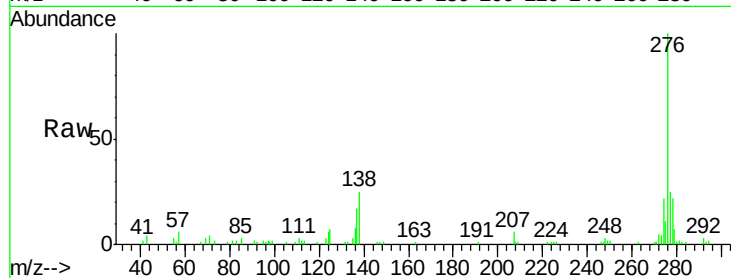




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.60 ng
 RT: 16.26 min Scan# 1284
 Delta R.T. -0.10 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

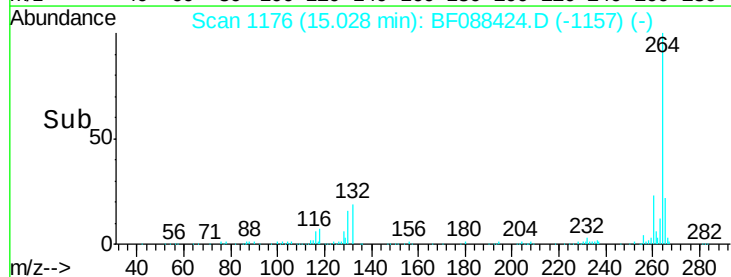
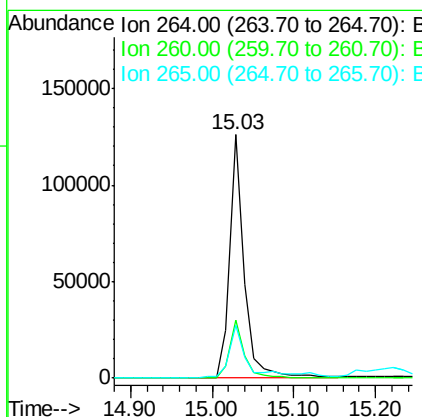
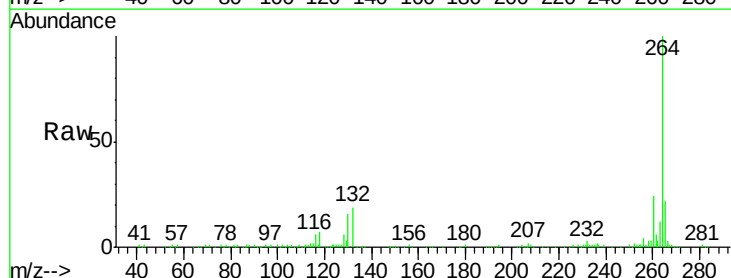
Instrument :
 BNA_G
 ClientSampleId :

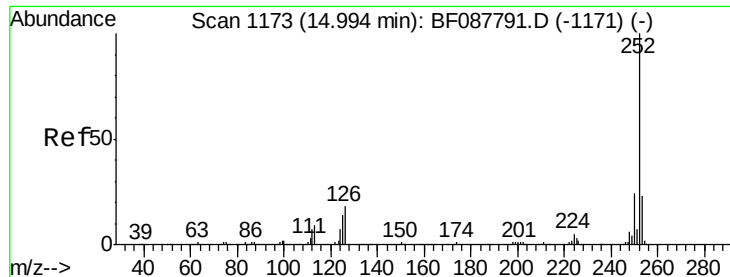
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.1	0.0	0.0#
277	23.2	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.03 min Scan# 1176
 Delta R.T. -0.08 min
 Lab File: BF088424.D
 Acq: 26 Jun 2016 17:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.0	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 19.04 ng

RT: 14.67 min Scan# 1145

Delta R.T. -0.07 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

Instrument :

BNA_G

ClientSampleId :

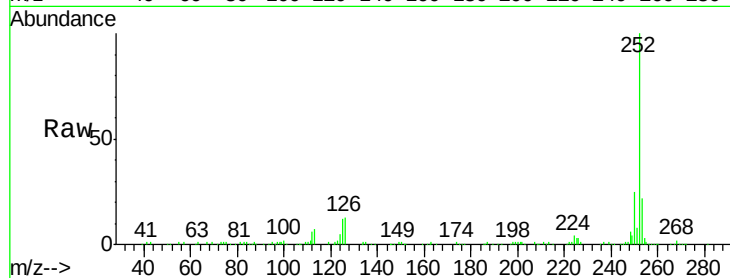
Tot Ion:252 Resp: 207546

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

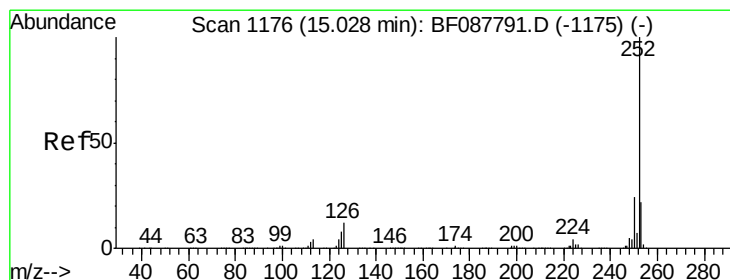
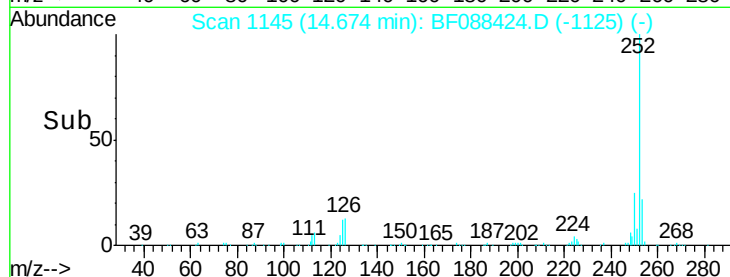
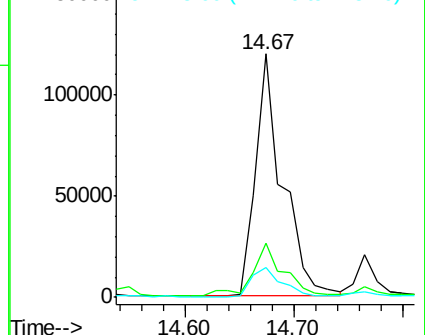
125 12.4 7.1 10.7#



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: 25.25 ng

RT: 14.67 min Scan# 1145

Delta R.T. -0.09 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

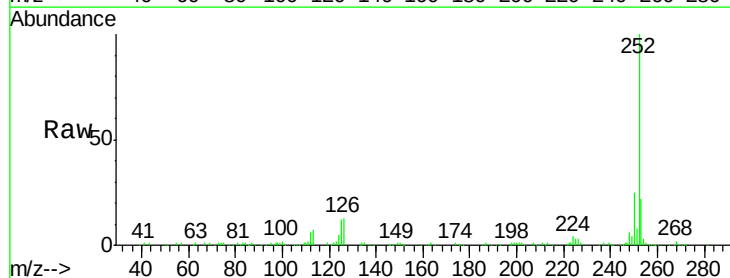
Tgt Ion:252 Resp: 207546

Ion Ratio Lower Upper

252 100

253 22.3 18.0 27.0

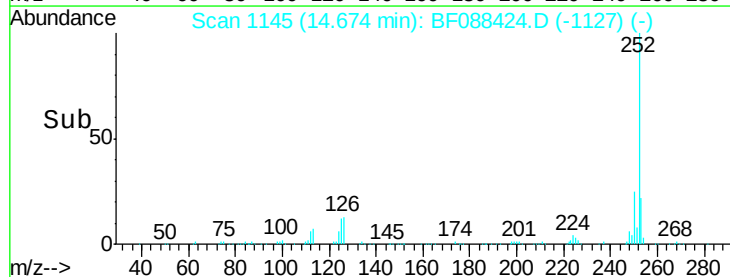
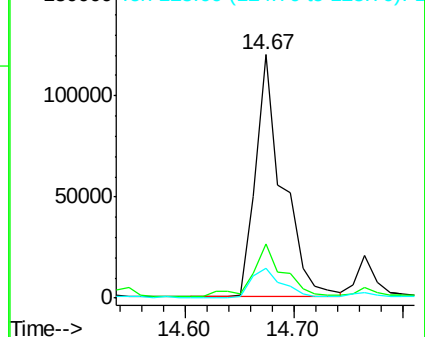
125 12.4 11.2 16.8

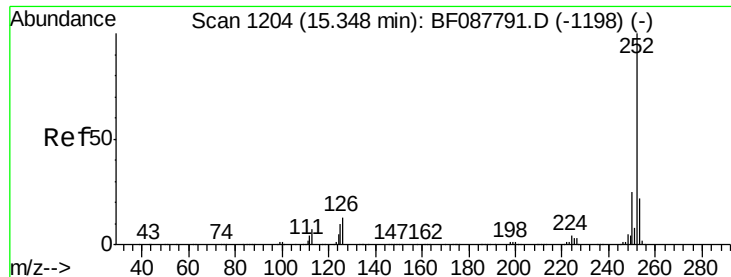


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 8.41 ng

RT: 14.93 min Scan# 1167

Delta R.T. -0.13 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

Instrument :

BNA_G

ClientSampleId :

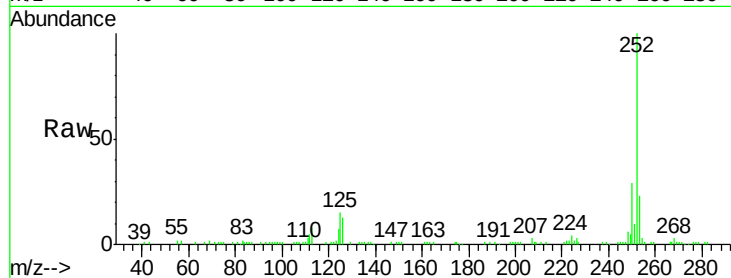
Tot Ion:252 Resp: 74156

Ion Ratio Lower Upper

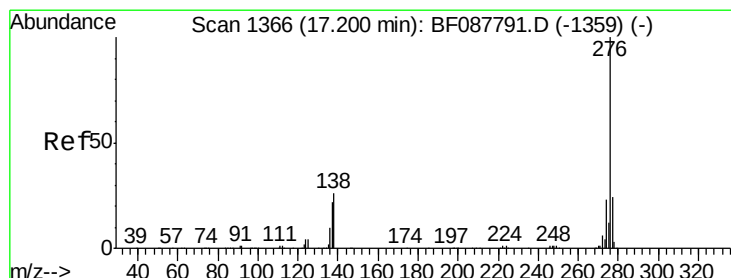
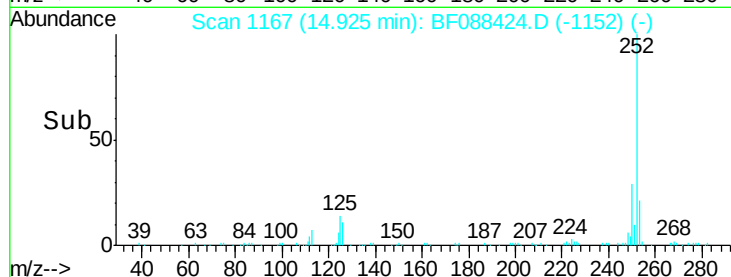
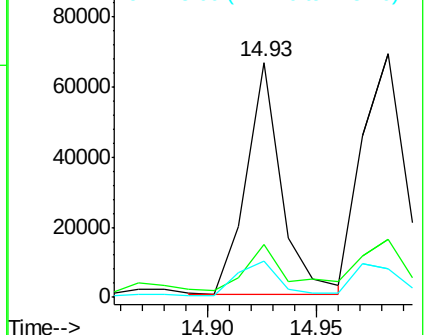
252 100

253 22.6 17.9 26.9

125 15.2 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: 8.66 ng

RT: 16.62 min Scan# 1315

Delta R.T. -0.13 min

Lab File: BF088424.D

Acq: 26 Jun 2016 17:59

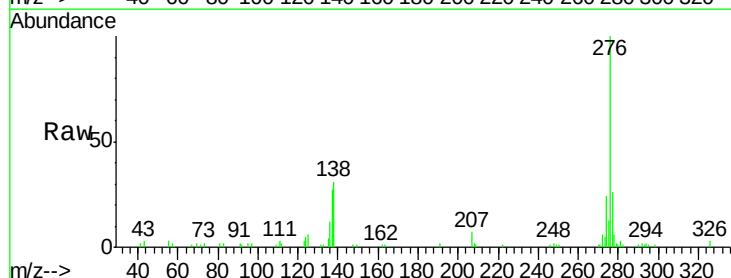
Tgt Ion:276 Resp: 72941

Ion Ratio Lower Upper

276 100

277 26.2 18.9 28.3

138 30.6 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

