

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
 Data File : BF088422.D
 Acq On : 26 Jun 2016 17:01
 Operator : UM/SJ
 Sample : H3663-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3

Quant Time: Jun 27 03:55:43 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	68547	20.00	ng	-0.06
21) Naphthalene-d8	7.83	136	271357	20.00	ng	-0.07
38) Acenaphthene-d10	9.58	164	135347	20.00	ng	-0.07
63) Phenanthrene-d10	11.05	188	250448	20.00	ng	-0.07
75) Chrysene-d12	13.68	240	175597	20.00	ng	-0.07
86) Perylene-d12	15.03	264	146141	20.00	ng	-0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.14	112	575989	143.65	ng	-0.03
7) Phenol-d6	6.22	99	669698	137.81	ng	-0.05
23) Nitrobenzene-d5	7.12	82	430788	92.70	ng	-0.06
41) 2,4,6-Tribromophenol	10.36	330	163572	114.46	ng	-0.07
44) 2-Fluorobiphenyl	8.91	172	795195	92.80	ng	-0.06
78) Terphenyl-d14	12.64	244	701137	90.86	ng	-0.06

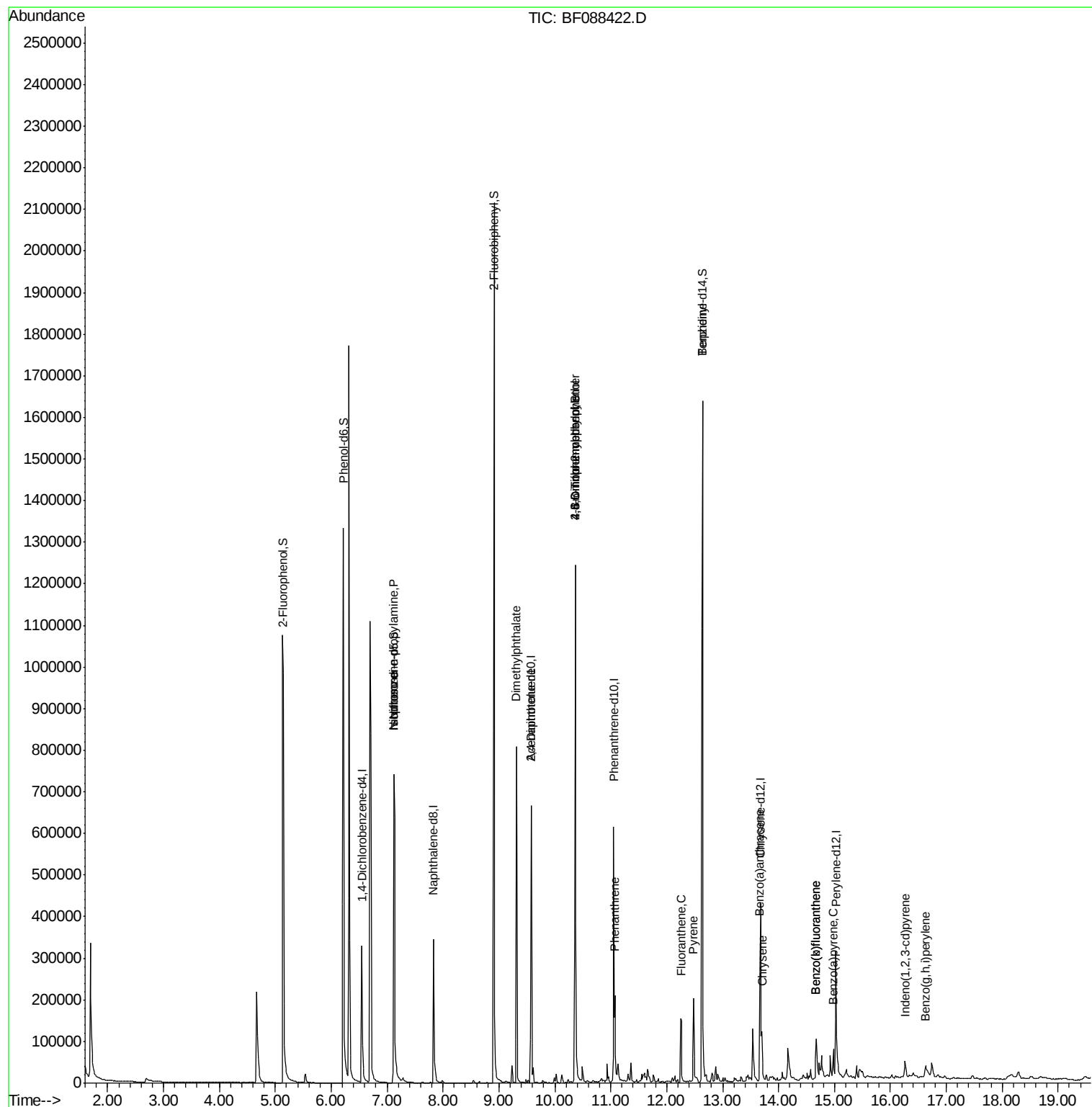
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.23	94	6650	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.12	70	52953	17.03	ng	72
25) Isophorone	7.12	82	432899	50.29	ng	65
45) 1,1'-Biphenyl	9.02	154	764	Below Cal		88
49) Dimethylphthalate	9.31	163	335706	34.24	ng	100
56) 2,4-Dinitrotoluene	9.58	165	17255	5.98	ng	37
57) Fluorene	10.12	166	6655	Below Cal		97
64) 4,6-Dinitro-2-methylphenol	10.36	198	224	2.30	ng	1
66) 4-Bromophenyl-phenylether	10.36	248	9721	3.62	ng	1
70) Phenanthrene	11.07	178	79781	6.07	ng	98
74) Fluoranthene	12.26	202	105329	7.59	ng	94
76) Benzidine	12.64	184	10122	2.08	ng	93
77) Pvrene	12.48	202	96135	7.38	ng	98
80) Benzo(a)anthracene	13.67	228	51158	5.11	ng	98
82) Chrysene	13.70	228	39882	4.24	ng	94
85) Indeno(1,2,3-cd)pyrene	16.26	276	26934	3.08	ng	100
87) Benzo(b)fluoranthene	14.67	252	72373	7.11	ng	97
88) Benzo(k)fluoranthene	14.67	252	72373	9.42	ng	98
89) Benzo(a)pvrene	14.98	252	37111	4.50	ng	95
91) Benzo(a,h,i)perylene	16.63	276	25667	3.26	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: 6.55 min Scan# 434

Delta R.T. -0.06 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampleId :

TP-3

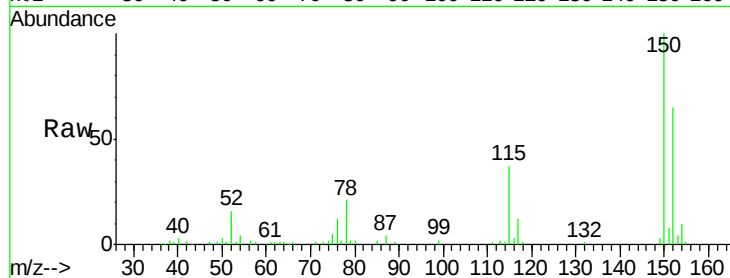
Tot Ion:152 Resp: 68547

Ion Ratio Lower Upper

152 100

150 155.0 123.8 185.6

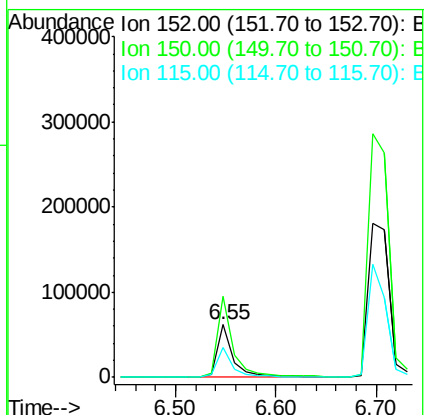
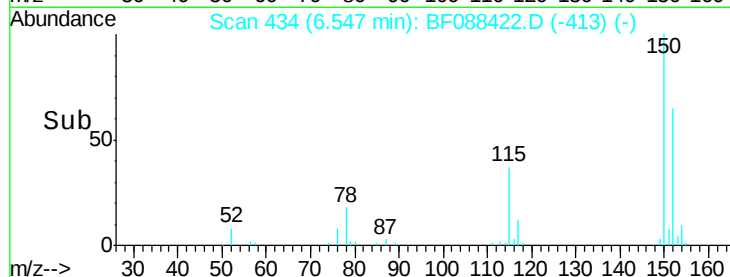
115 57.6 39.6 59.4



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: 143.65 ng

RT: 5.14 min Scan# 311

Delta R.T. -0.03 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

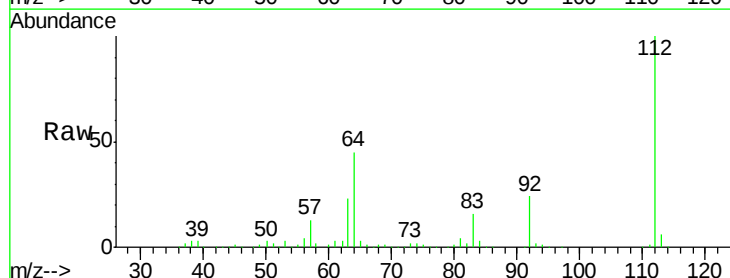
Tgt Ion:112 Resp: 575989

Ion Ratio Lower Upper

112 100

64 44.5 42.2 63.2

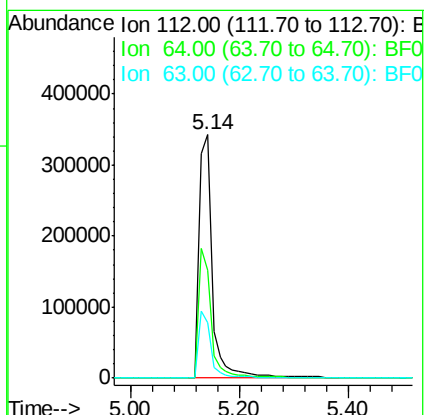
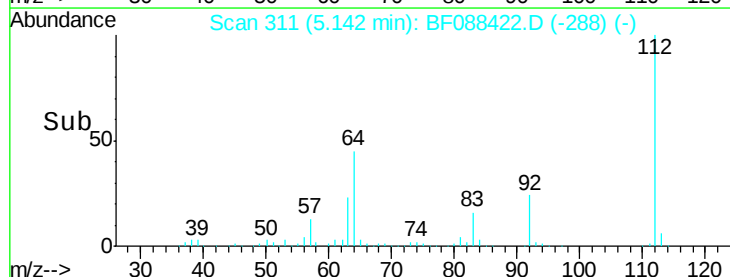
63 22.6 21.8 32.8



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: 137.81 ng

RT: 6.22 min Scan# 405

Delta R.T. -0.05 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampleId :

TP-3

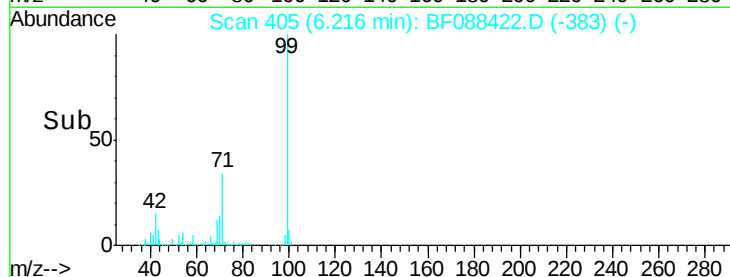
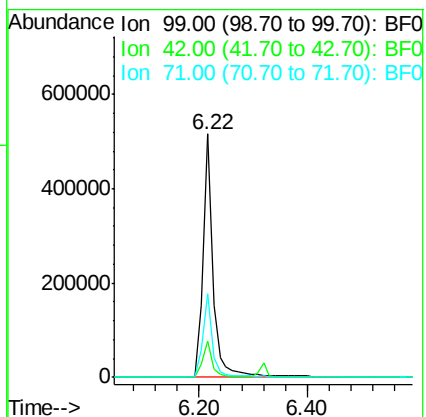
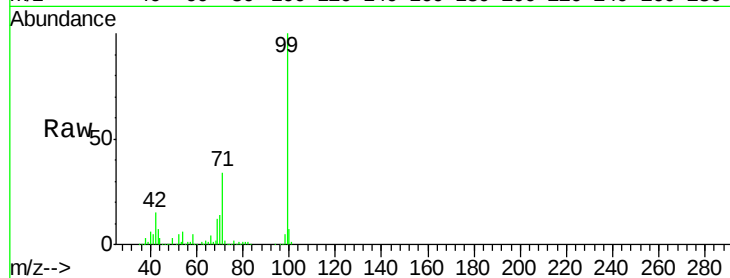
Tot Ion: 99 Resp: 669698

Ion Ratio Lower Upper

99 100

42 15.1 12.2 18.2

71 34.1 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 17.03 ng

RT: 7.12 min Scan# 484

Delta R.T. 0.08 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Tgt Ion: 70 Resp: 52953

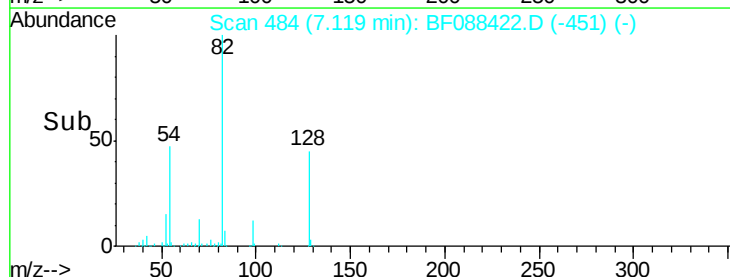
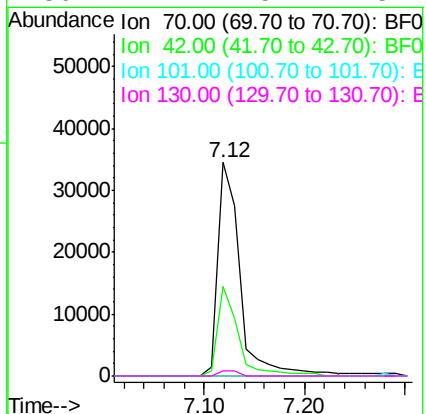
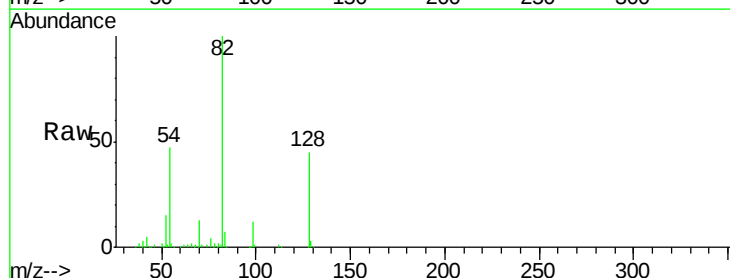
Ion Ratio Lower Upper

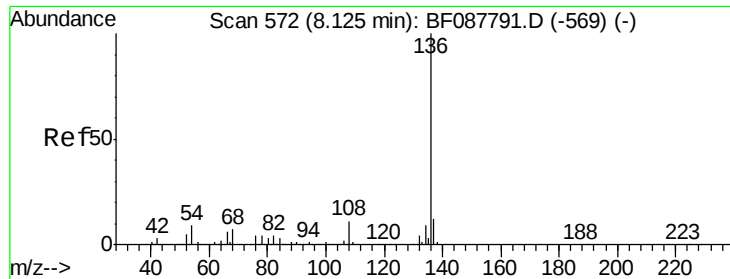
70 100

42 42.1 49.6 74.4#

101 0.0 7.1 10.7#

130 2.2 15.4 23.2#

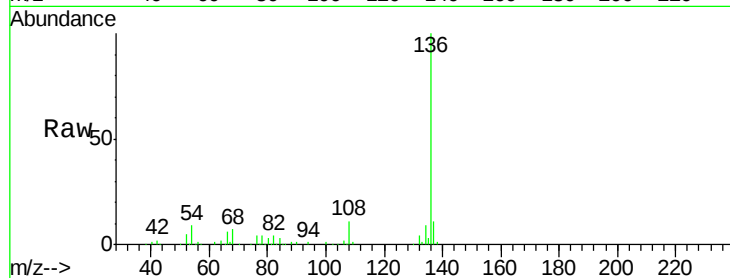




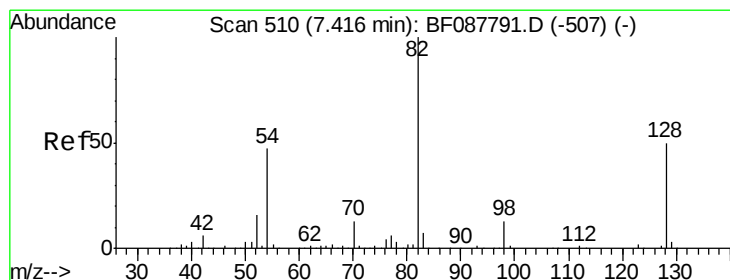
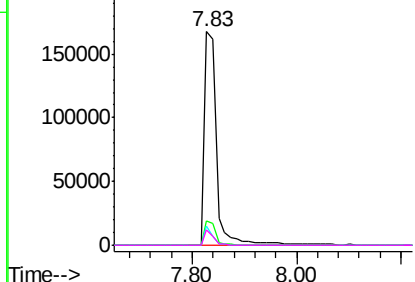
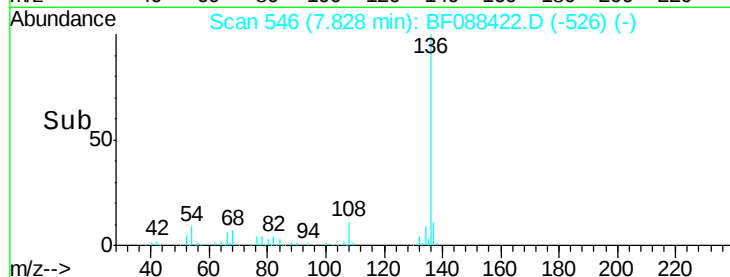
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.83 min Scan# 546
Delta R.T. -0.07 min
Lab File: BF088422.D
Acq: 26 Jun 2016 17:01

Instrument :
BNA_F
ClientSampled :
TP-3

Tot Ion:136	Resp:	271357
Ion	Ratio	Lower Upper
136	100	
137	11.5	9.1 13.7
54	8.9	6.6 10.0
68	6.9	5.1 7.7

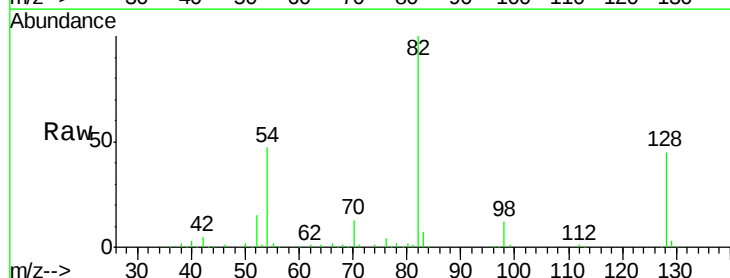


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

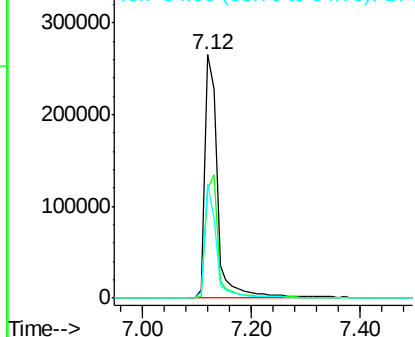
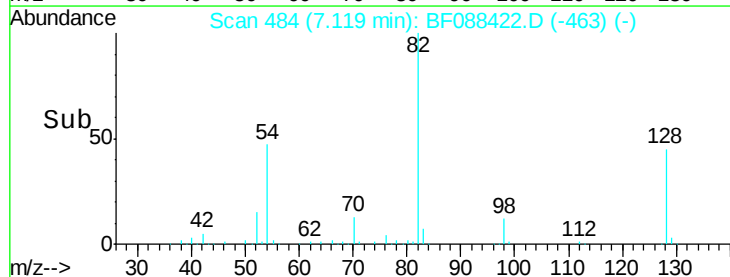


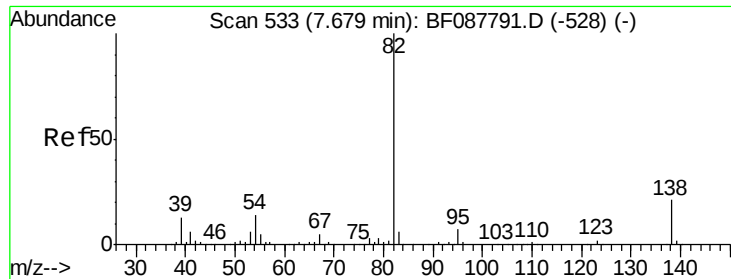
#23
Nitrobenzene-d5
Concen: 92.70 ng
RT: 7.12 min Scan# 484
Delta R.T. -0.06 min
Lab File: BF088422.D
Acq: 26 Jun 2016 17:01

Tgt Ion: 82	Resp:	430788
Ion	Ratio	Lower Upper
82	100	
128	44.9	35.9 53.9
54	46.8	40.9 61.3



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





#25

Isophorone

Concen: 50.29 ng

RT: 7.12 min Scan# 484

Delta R.T. -0.32 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampleId :

TP-3

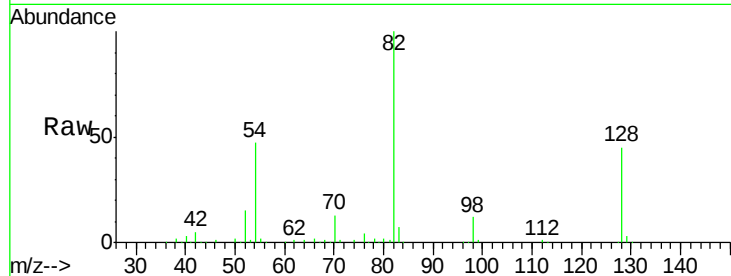
Tot Ion: 82 Resp: 432899

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

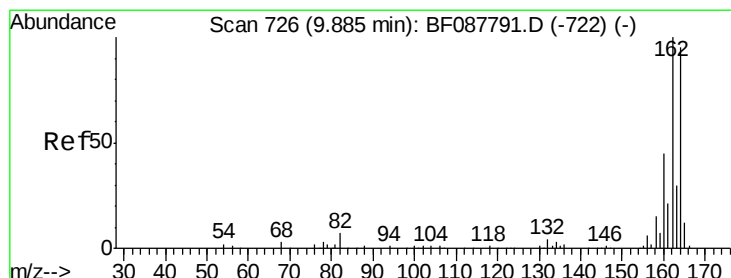
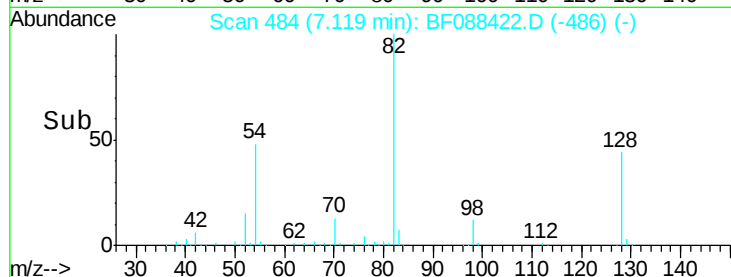
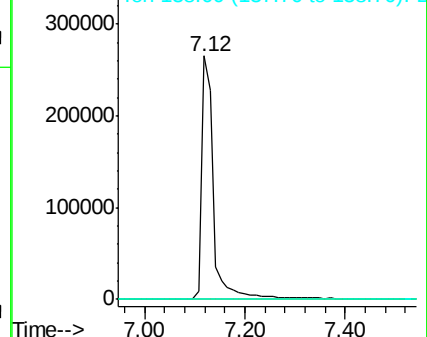
138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.58 min Scan# 699

Delta R.T. -0.07 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

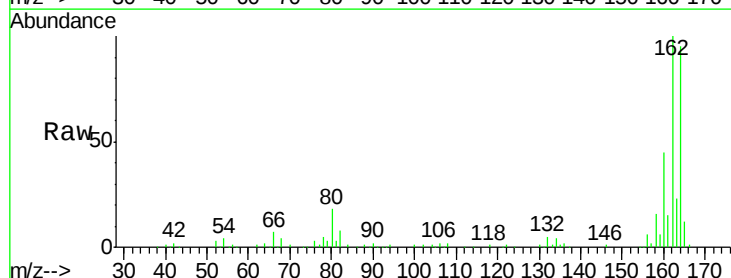
Tgt Ion: 164 Resp: 135347

Ion Ratio Lower Upper

164 100

162 104.8 85.4 128.2

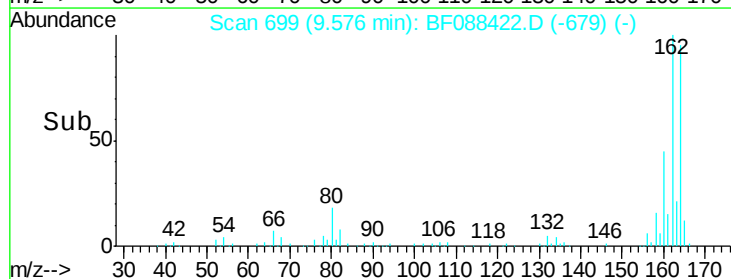
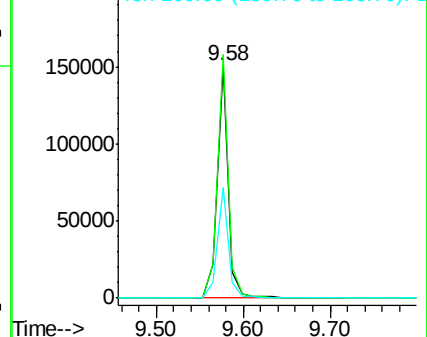
160 47.5 39.5 59.3

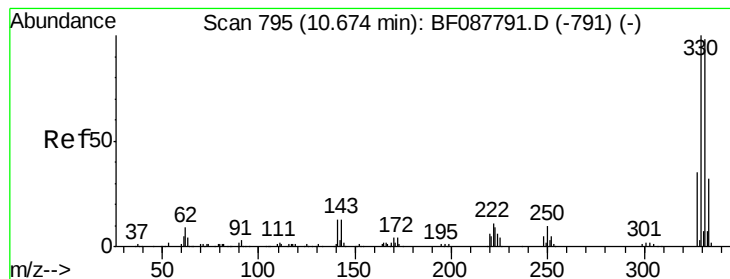


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 114.46 ng

RT: 10.36 min Scan# 768

Delta R.T. -0.07 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampleId :

TP-3

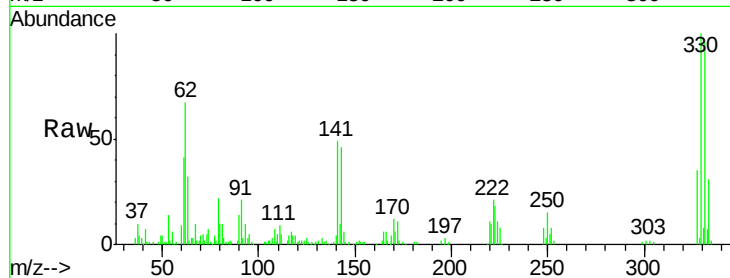
Tot Ion:330 Resp: 163572

Ion Ratio Lower Upper

330 100

332 97.0 0.0 0.0#

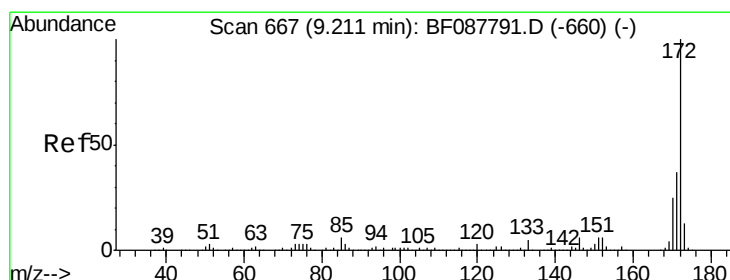
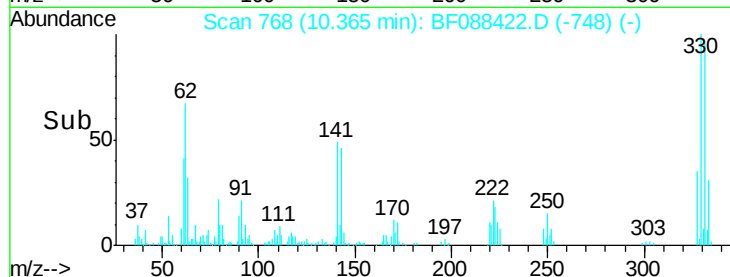
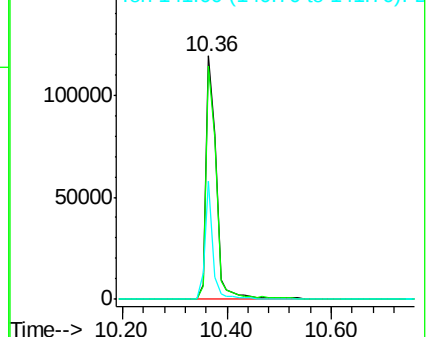
141 38.1 0.0 0.0#



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 92.80 ng

RT: 8.91 min Scan# 641

Delta R.T. -0.06 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

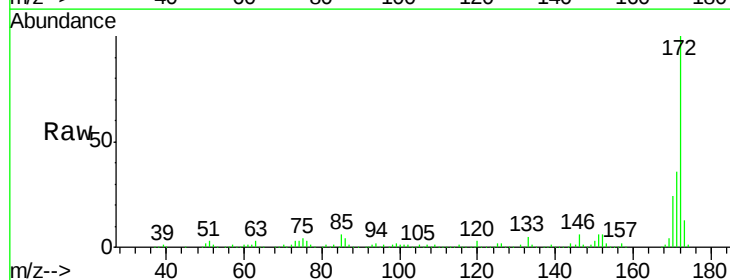
Tgt Ion:172 Resp: 795195

Ion Ratio Lower Upper

172 100

171 36.1 28.6 43.0

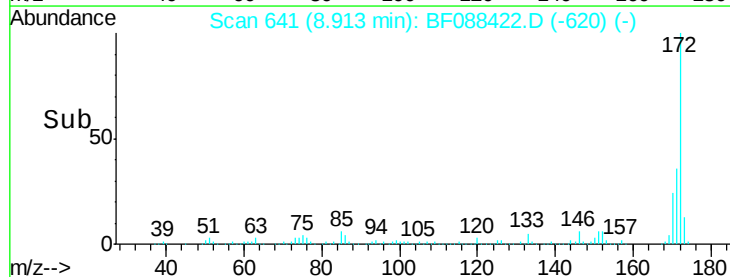
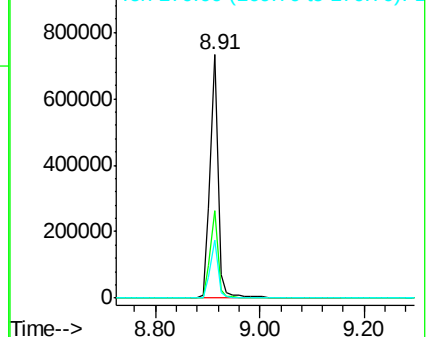
170 24.0 19.2 28.8

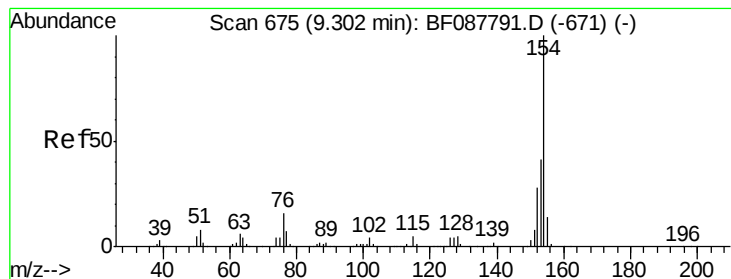


Abundance Ion 172.00 (171.70 to 172.70): E

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: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampled :

TP-3

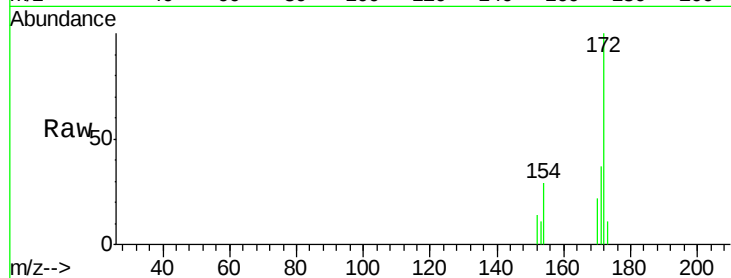
Tot Ion:154 Resp: 764

Ion Ratio Lower Upper

154 100

153 39.0 20.6 60.6

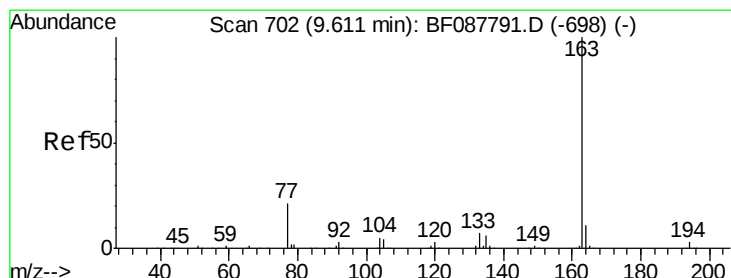
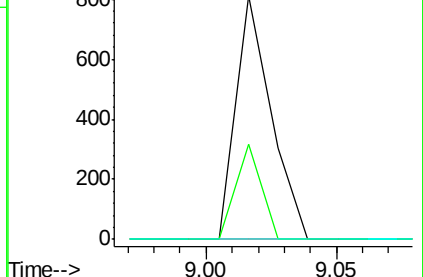
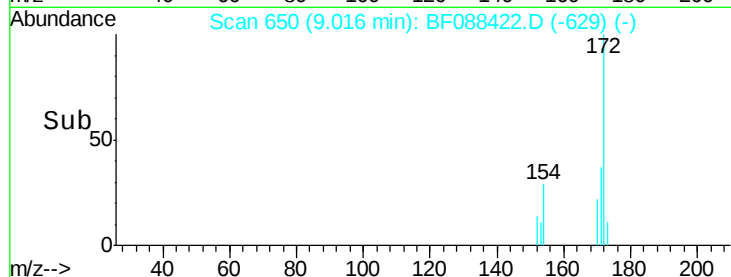
76 0.0 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 34.24 ng

RT: 9.31 min Scan# 676

Delta R.T. -0.07 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

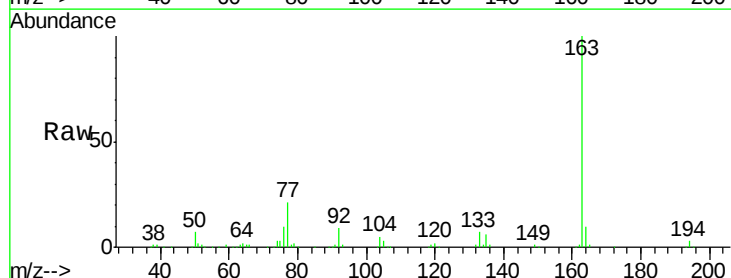
Tgt Ion:163 Resp: 335706

Ion Ratio Lower Upper

163 100

194 3.1 2.8 4.2

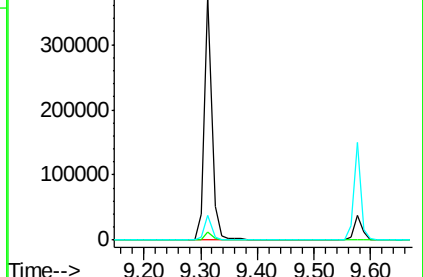
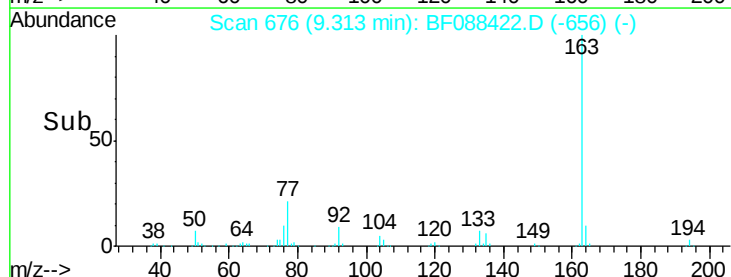
164 10.4 8.3 12.5



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

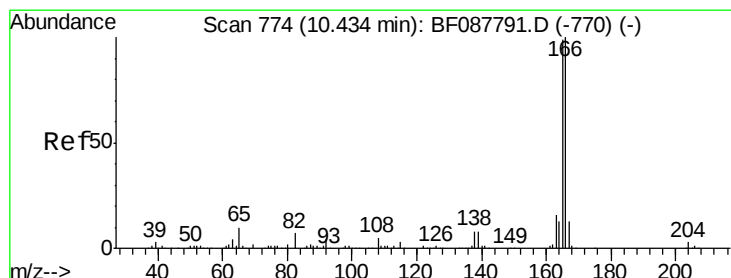
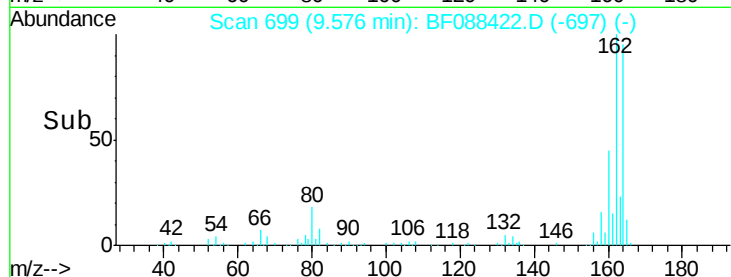
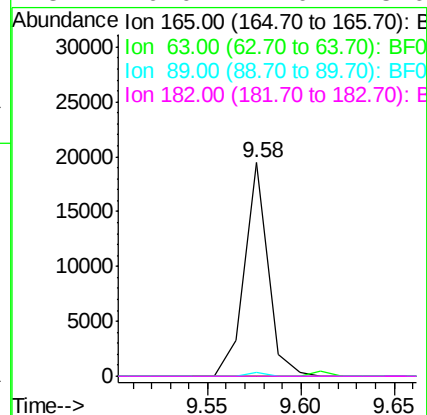
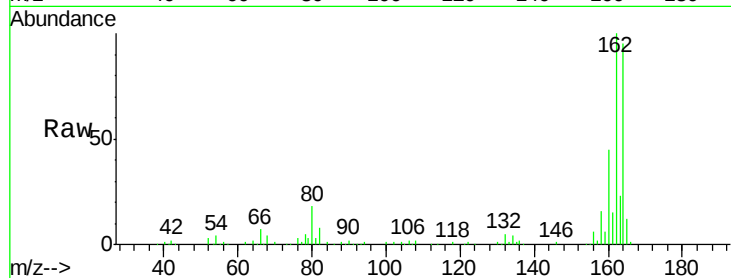




#56
2,4-Dinitrotoluene
Concen: 5.98 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.27 min
Lab File: BF088422.D
Acq: 26 Jun 2016 17:01

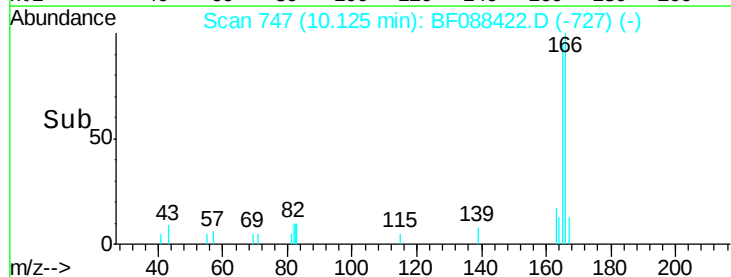
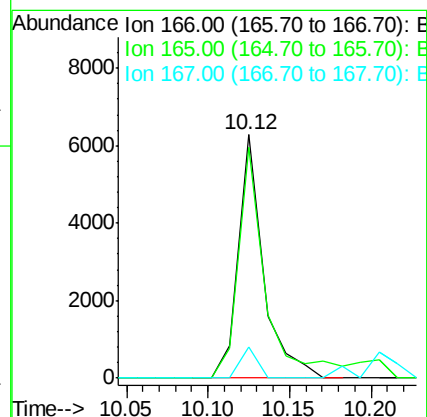
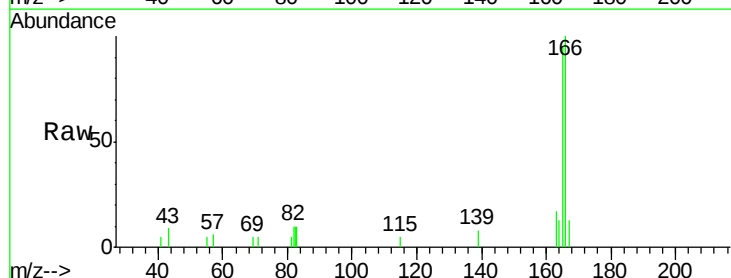
Instrument :
BNA_F
ClientSampleId :
TP-3

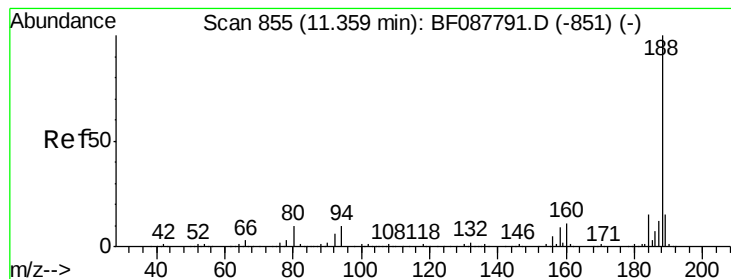
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.0	33.0#
89	1.5	41.1	61.7#
182	0.0	2.0	3.0#



#57
Fluorene
Concen: Below Cal
RT: 10.12 min Scan# 747
Delta R.T. -0.07 min
Lab File: BF088422.D
Acq: 26 Jun 2016 17:01

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.8	77.8	116.8
167	12.9	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: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampleId :

TP-3

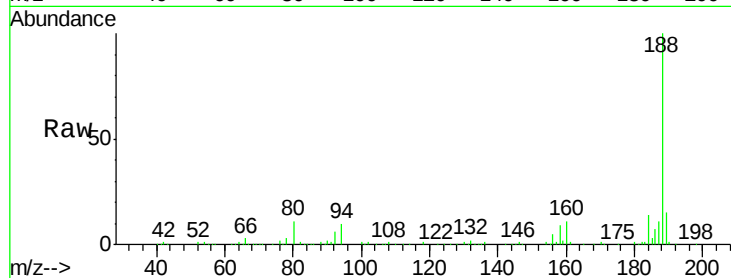
Tot Ion:188 Resp: 250448

Ion Ratio Lower Upper

188 100

94 10.1 9.0 13.6

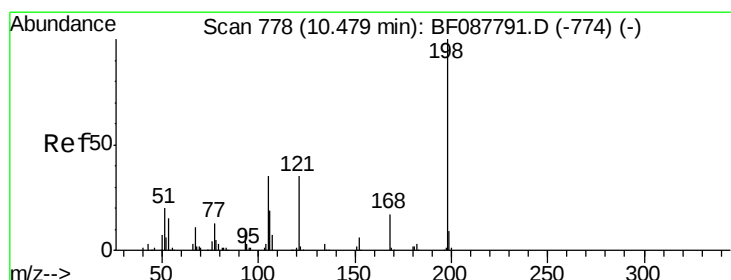
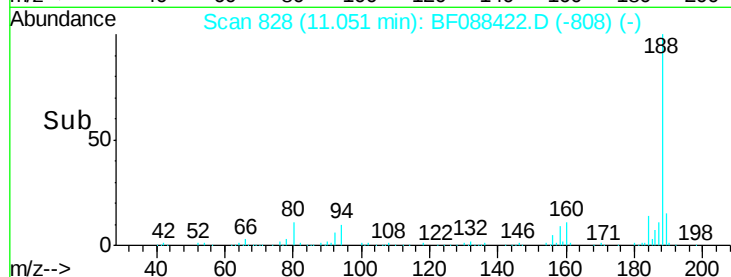
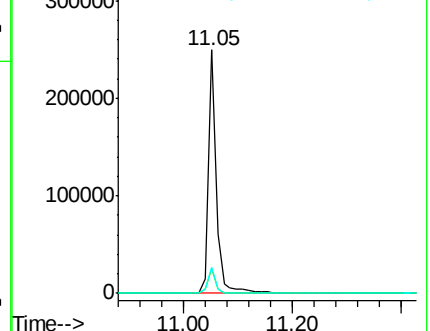
80 10.5 10.0 15.0



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



#64

4,6-Dinitro-2-methylphenol

Concen: 2.30 ng

RT: 10.36 min Scan# 768

Delta R.T. 0.10 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

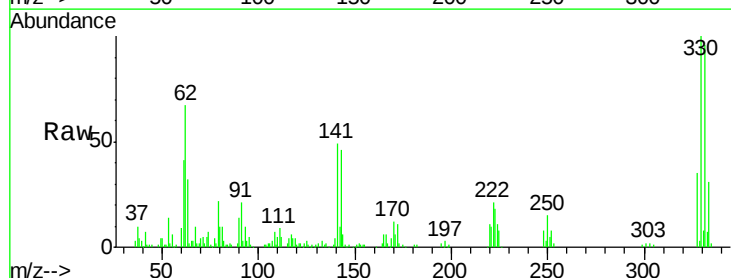
Tgt Ion:198 Resp: 224

Ion Ratio Lower Upper

198 100

51 351.4 39.6 79.6#

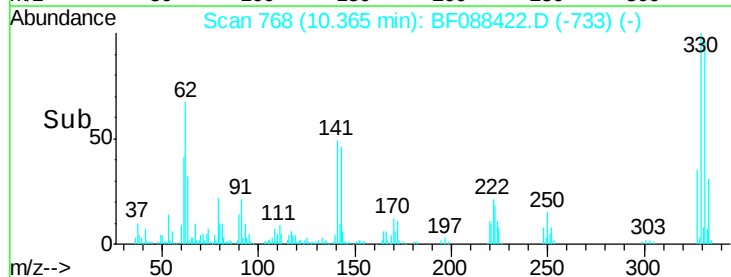
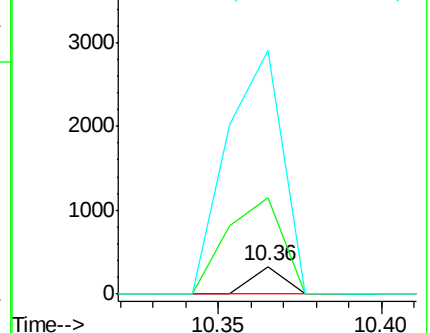
105 887.8 36.6 76.6#



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: 3.62 ng

RT: 10.36 min Scan# 768

Delta R.T. -0.31 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampleId :

TP-3

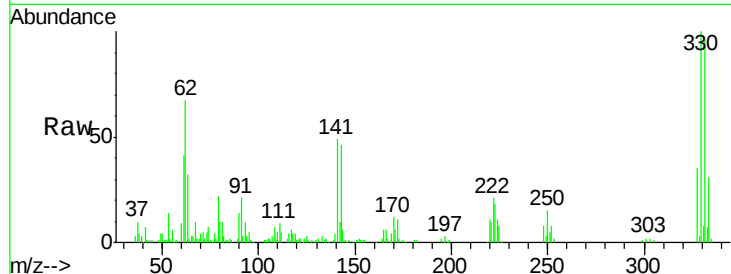
Tot Ion:248 Resp: 9721

Ion Ratio Lower Upper

248 100

250 195.2 77.1 115.7#

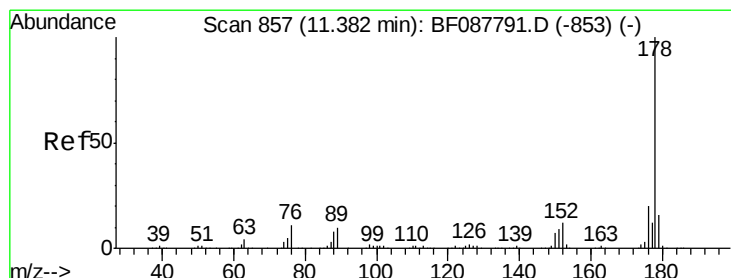
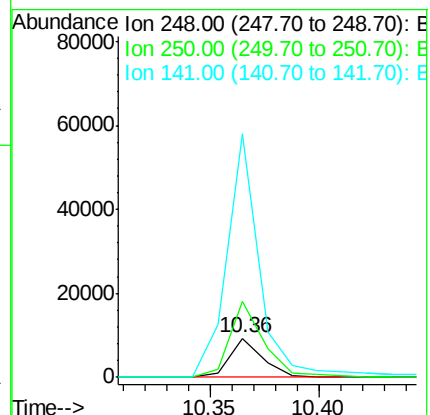
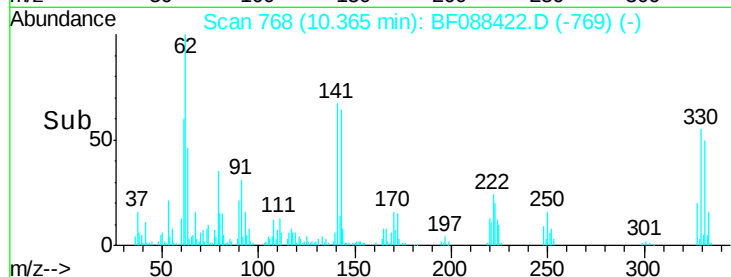
141 622.8 50.6 76.0#



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: 6.07 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.07 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

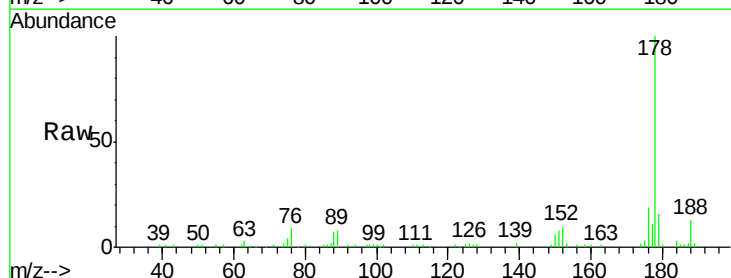
Tgt Ion:178 Resp: 79781

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.6

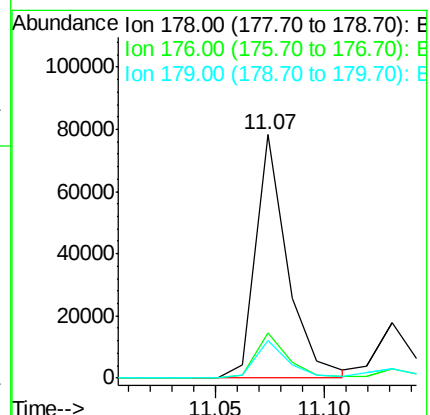
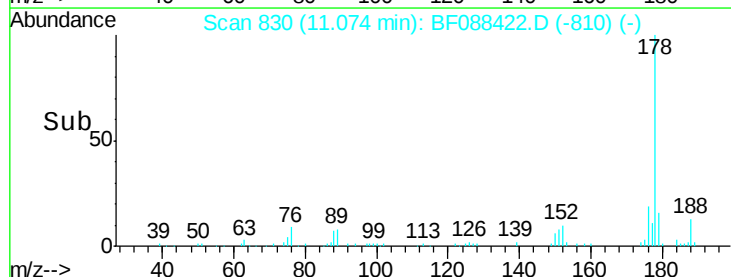
179 15.6 13.0 19.4

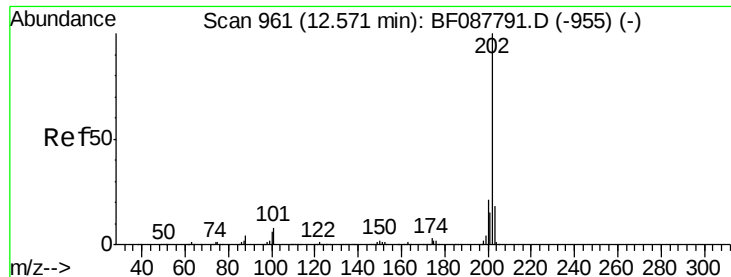


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 7.59 ng

RT: 12.26 min Scan# 934

Delta R.T. -0.06 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampled :

TP-3

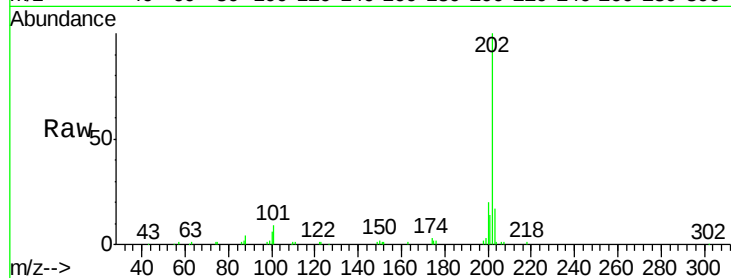
Tot Ion:202 Resp: 105329

Ion Ratio Lower Upper

202 100

101 8.8 0.0 33.1

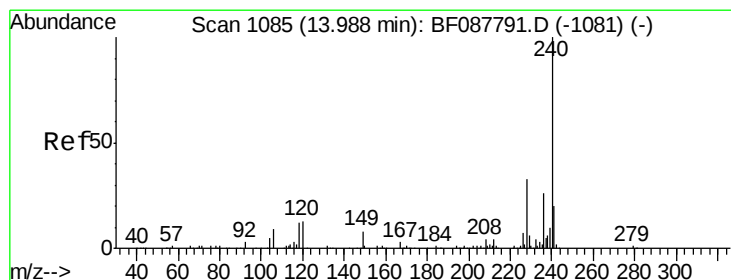
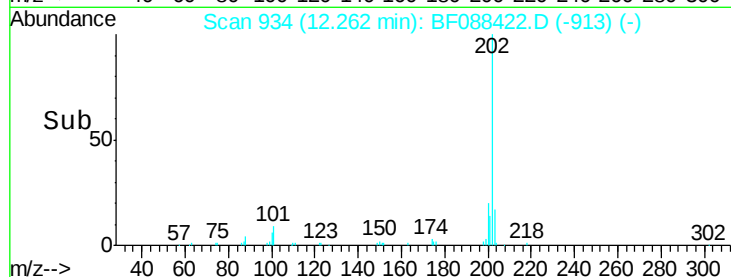
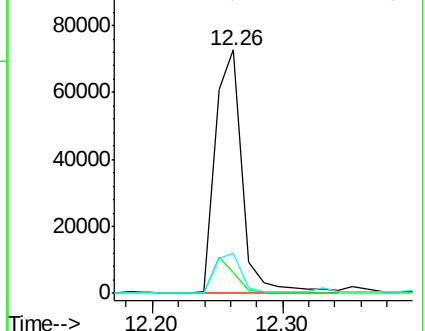
203 16.7 0.0 38.1



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: BF088422.D

Acq: 26 Jun 2016 17:01

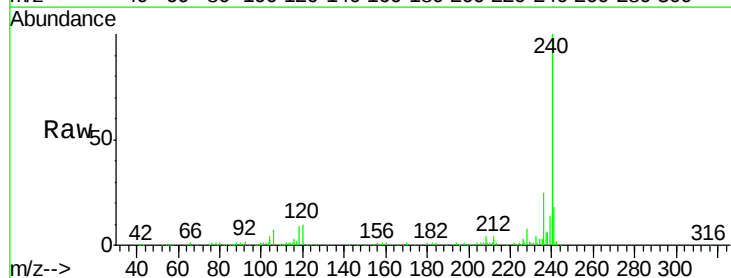
Tgt Ion:240 Resp: 175597

Ion Ratio Lower Upper

240 100

120 10.4 6.8 10.2#

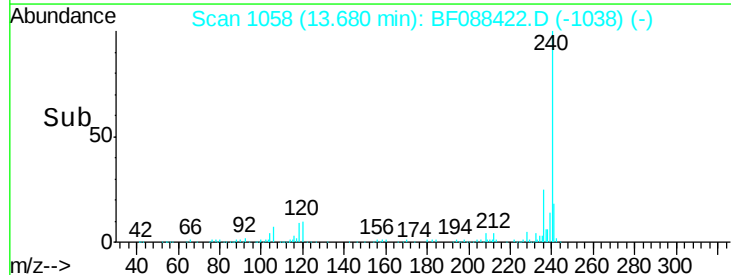
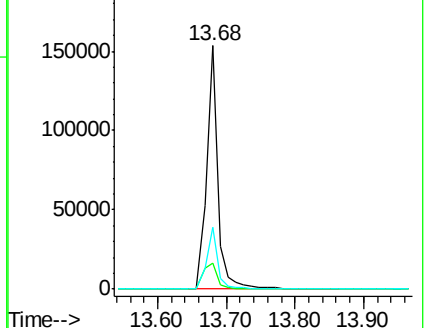
236 25.4 20.2 30.2

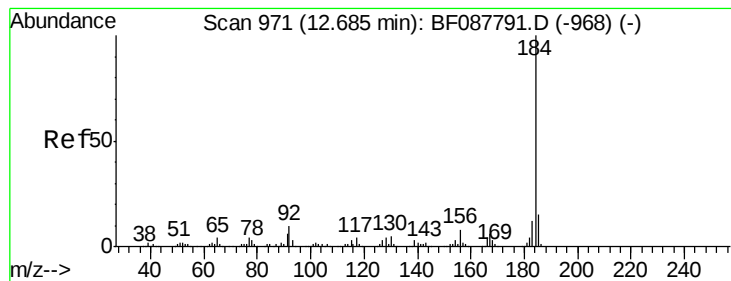


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 2.08 ng

RT: 12.64 min Scan# 967

Delta R.T. 0.18 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampleId :

TP-3

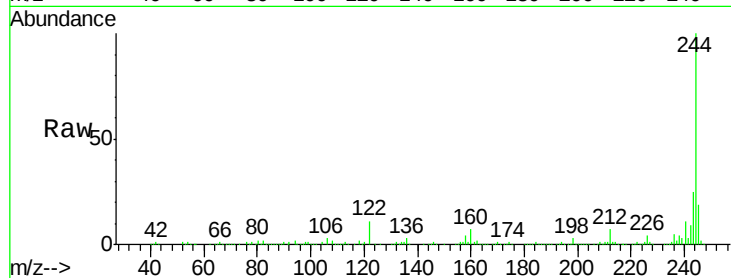
Tot Ion:184 Resp: 10122

Ion Ratio Lower Upper

184 100

185 17.3 12.5 18.7

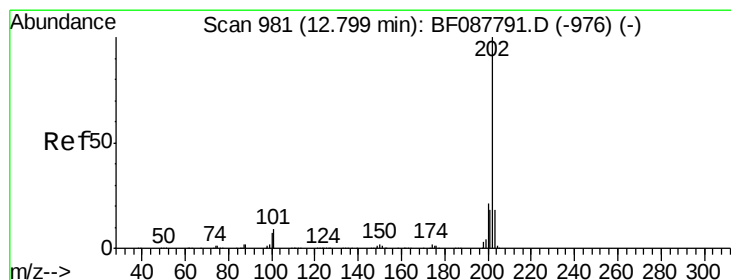
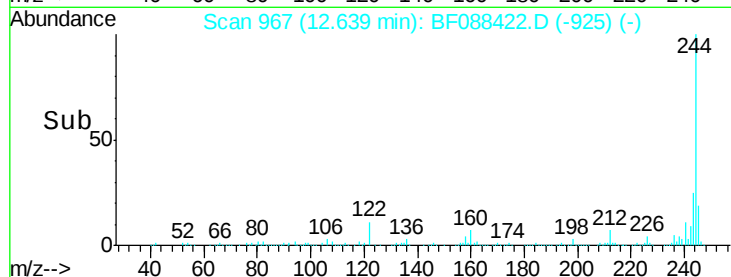
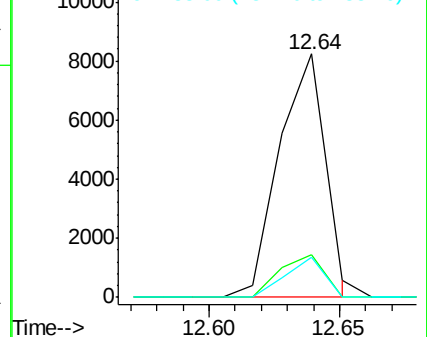
183 16.2 9.3 13.9#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 7.38 ng

RT: 12.48 min Scan# 953

Delta R.T. -0.07 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

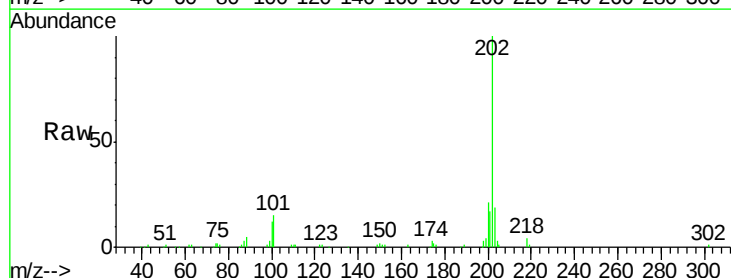
Tgt Ion:202 Resp: 96135

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

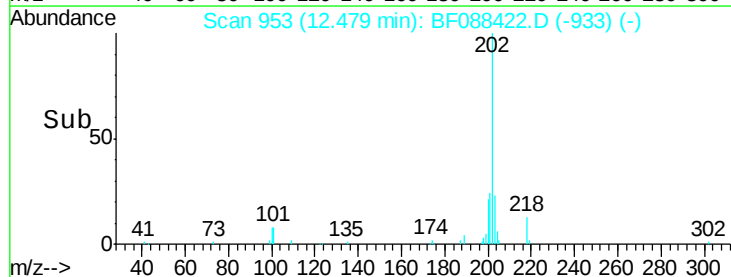
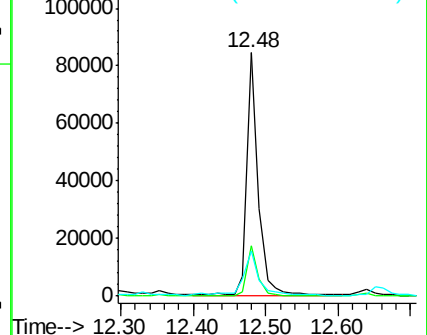
203 18.7 14.5 21.7

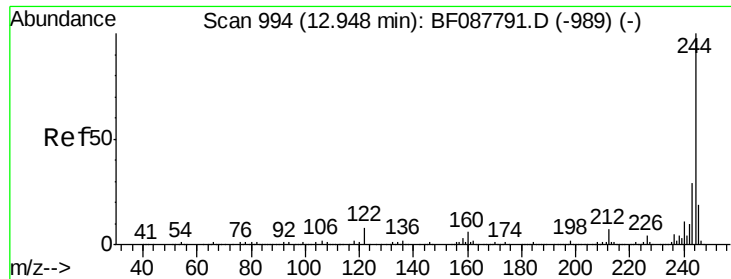


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

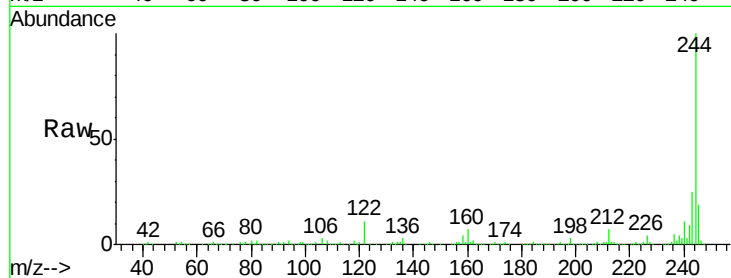




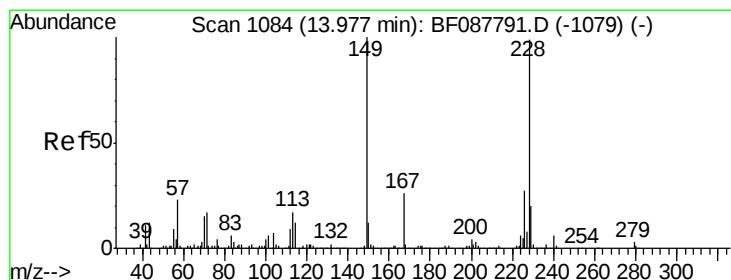
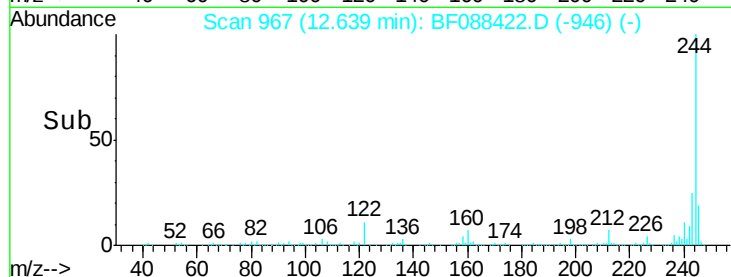
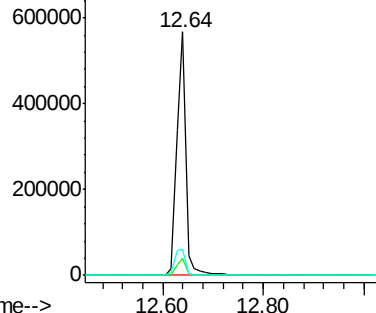
#78
 Terphenyl-d14
 Concen: 90.86 ng
 RT: 12.64 min Scan# 967
 Delta R.T. -0.06 min
 Lab File: BF088422.D
 Acq: 26 Jun 2016 17:01

Instrument :
 BNA_F
 ClientSampleId :
 TP-3

Tot Ion:244 Resp: 701137
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 10.5 11.2 16.8#

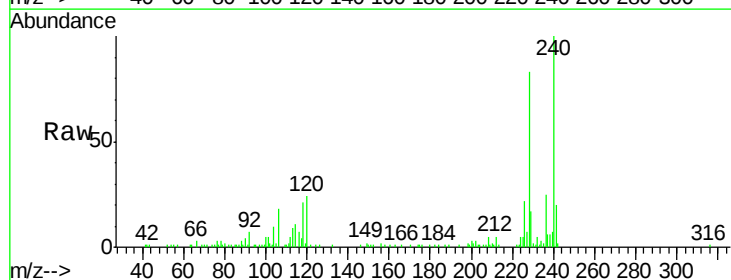


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

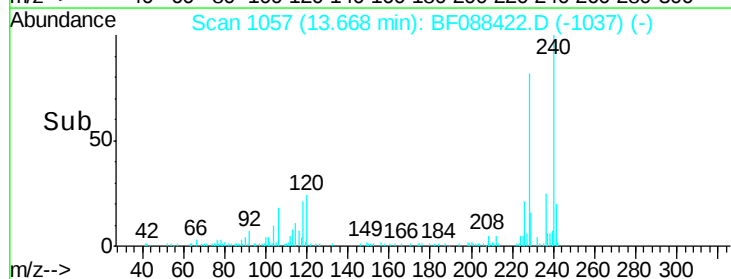
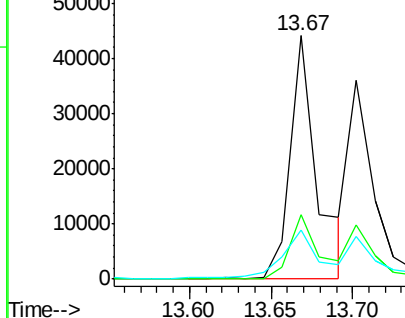


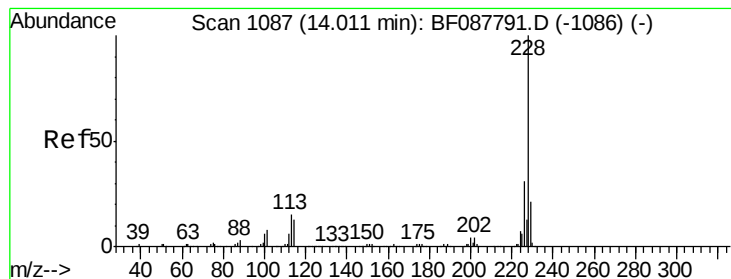
#80
 Benzo(a)anthracene
 Concen: 5.11 ng
 RT: 13.67 min Scan# 1057
 Delta R.T. -0.07 min
 Lab File: BF088422.D
 Acq: 26 Jun 2016 17:01

Tgt Ion:228 Resp: 51158
 Ion Ratio Lower Upper
 228 100
 226 26.5 22.3 33.5
 229 20.3 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: 4.24 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.07 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

Instrument :

BNA_F

ClientSampleId :

TP-3

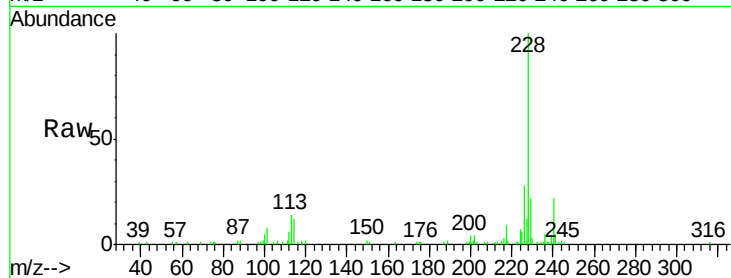
Tot Ion:228 Resp: 39882

Ion Ratio Lower Upper

228 100

226 27.6 25.4 38.2

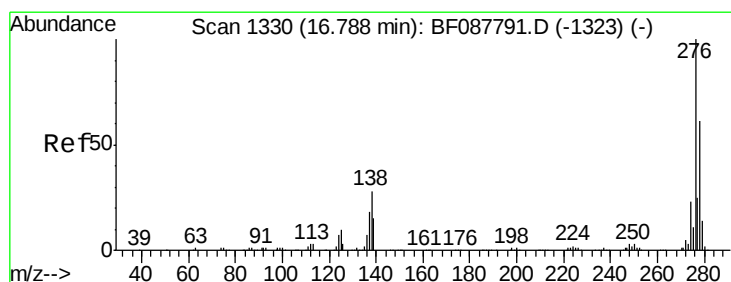
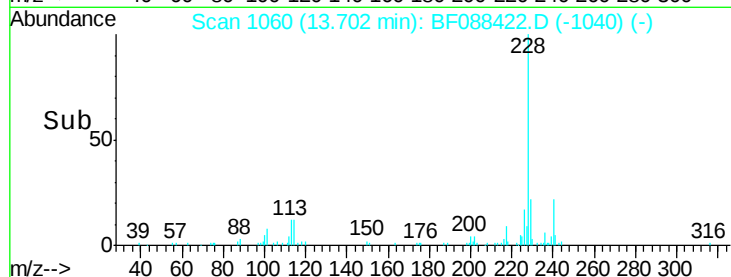
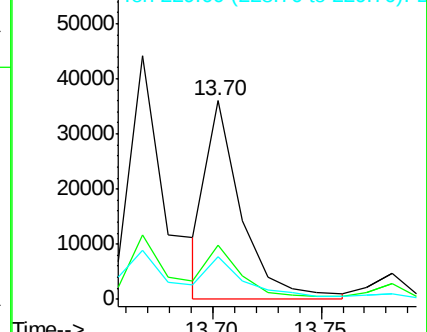
229 21.7 16.3 24.5



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: 3.08 ng

RT: 16.26 min Scan# 1284

Delta R.T. -0.10 min

Lab File: BF088422.D

Acq: 26 Jun 2016 17:01

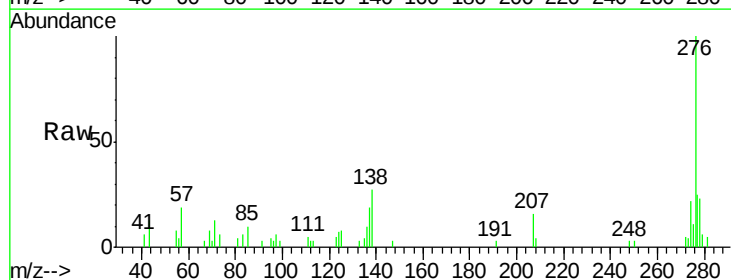
Tgt Ion:276 Resp: 26934

Ion Ratio Lower Upper

276 100

138 29.4 0.0 0.0#

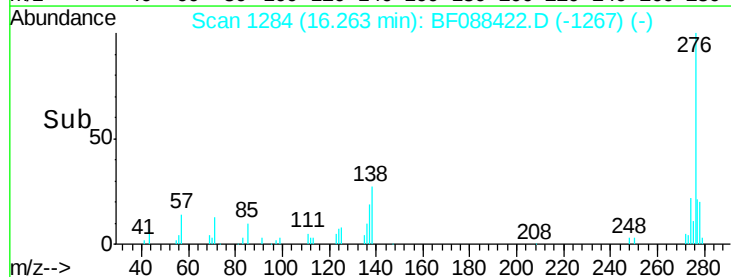
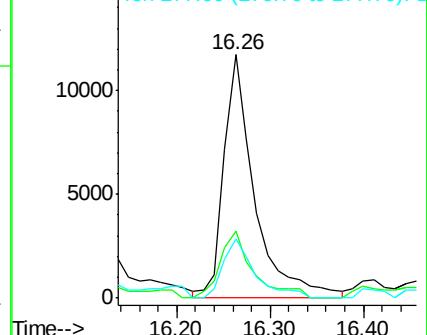
277 25.3 0.0 0.0#

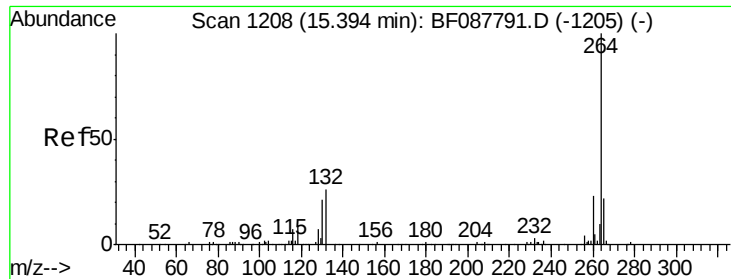


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

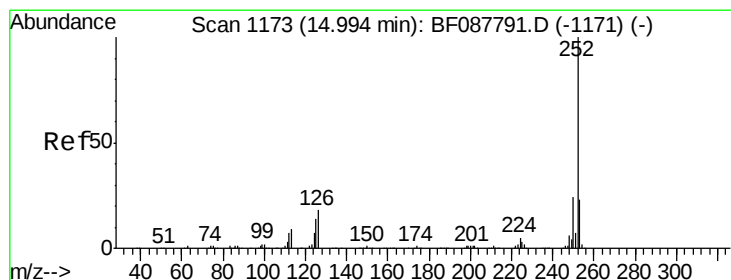
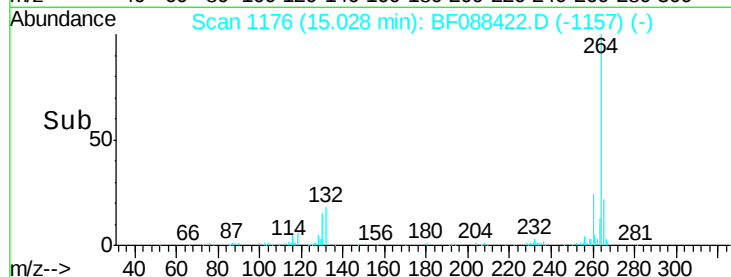
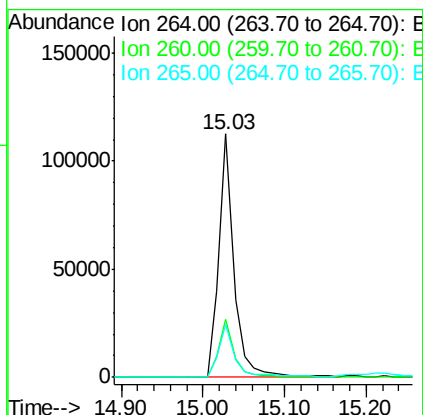
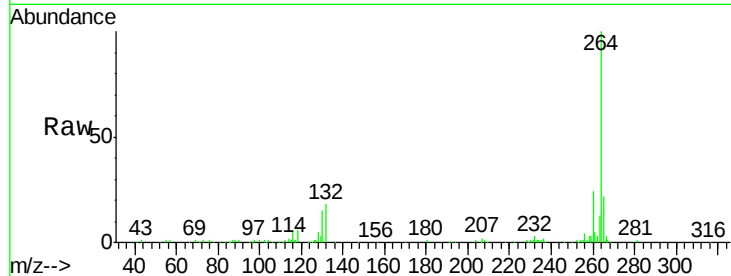




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.03 min Scan# 1176
Delta R.T. -0.08 min
Lab File: BF088422.D
Acq: 26 Jun 2016 17:01

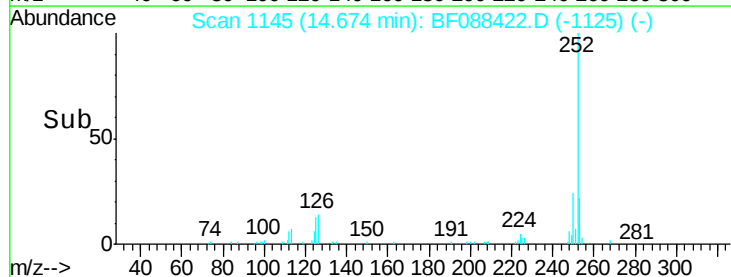
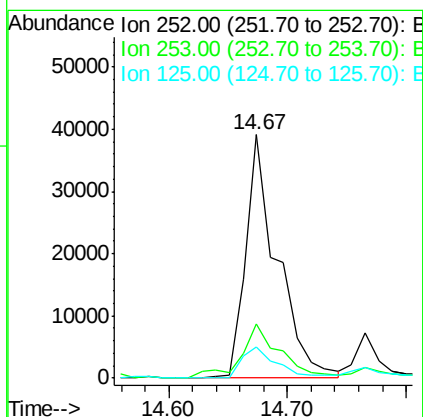
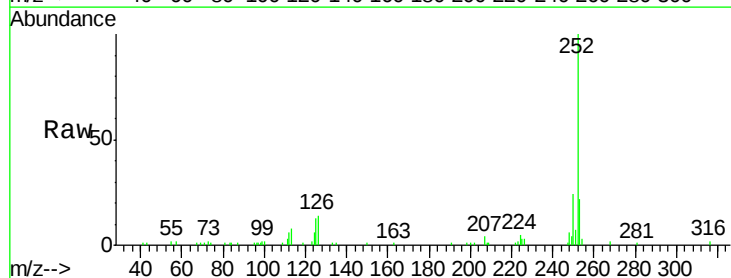
Instrument :
BNA_F
ClientSampleId :
TP-3

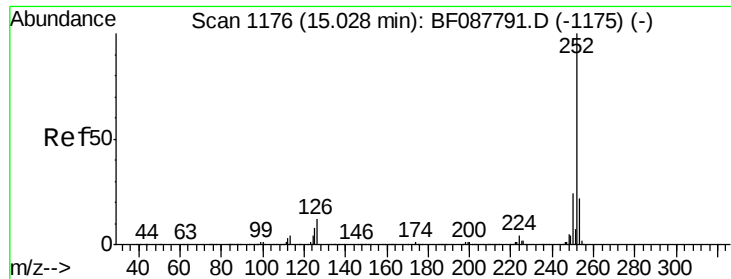
Tot Ion:264 Resp: 146141
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 21.6 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 7.11 ng
RT: 14.67 min Scan# 1145
Delta R.T. -0.07 min
Lab File: BF088422.D
Acq: 26 Jun 2016 17:01

Tgt Ion:252 Resp: 72373
Ion Ratio Lower Upper
252 100
253 22.2 17.4 26.2
125 12.5 7.1 10.7#

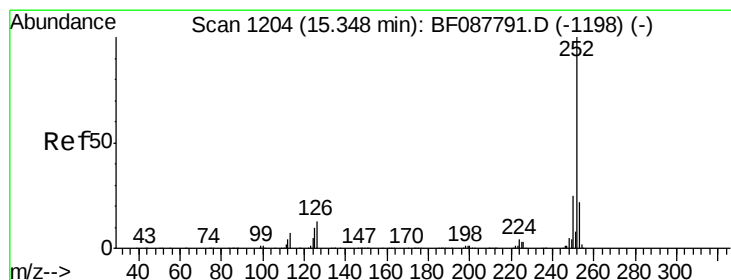
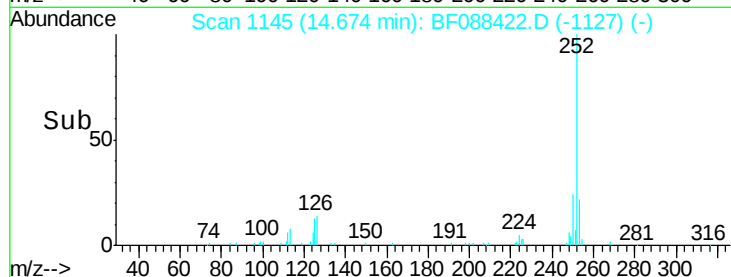
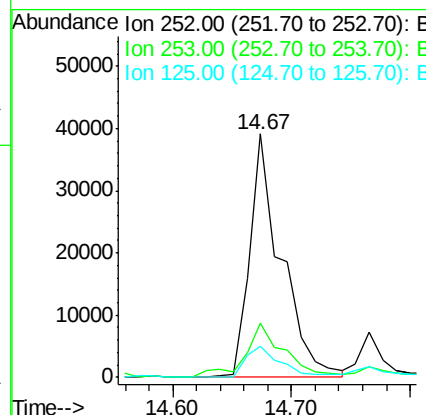
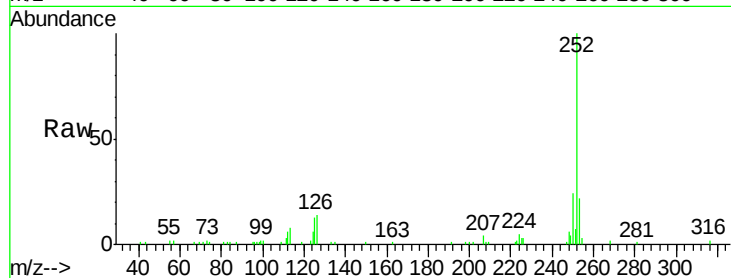




#88
Benzo(k)fluoranthene
Concen: 9.42 ng
RT: 14.67 min Scan# 1145
Delta R.T. -0.09 min
Lab File: BF088422.D
Acq: 26 Jun 2016 17:01

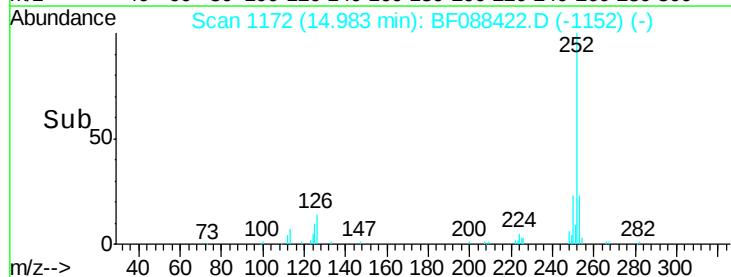
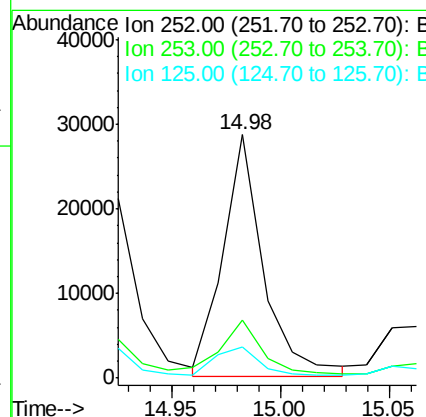
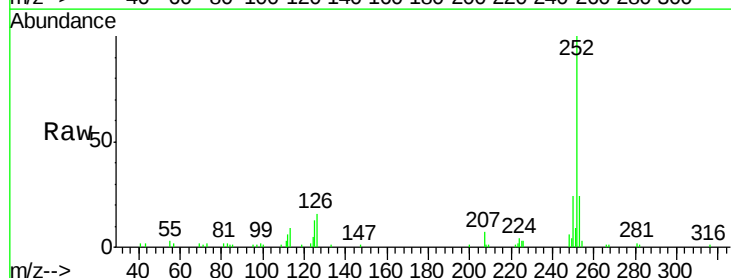
Instrument :
BNA_F
ClientSampled :
TP-3

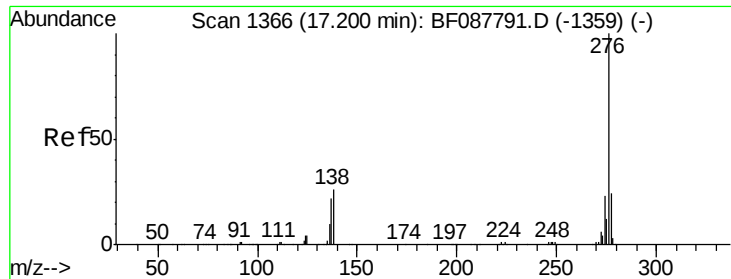
Tot Ion:252 Resp: 72373
Ion Ratio Lower Upper
252 100
253 22.2 18.0 27.0
125 12.5 11.2 16.8



#89
Benzo(a)pyrene
Concen: 4.50 ng
RT: 14.98 min Scan# 1172
Delta R.T. -0.07 min
Lab File: BF088422.D
Acq: 26 Jun 2016 17:01

Tgt Ion:252 Resp: 37111
Ion Ratio Lower Upper
252 100
253 24.0 17.9 26.9
125 13.0 12.5 18.7





#91
 Benzo(a,h,i)perylene
 Concen: 3.26 ng
 RT: 16.63 min Scan# 1316
 Delta R.T. -0.11 min
 Lab File: BF088422.D
 Acq: 26 Jun 2016 17:01

Instrument :
 BNA_F
 ClientSampleId :
 TP-3

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.3	18.9	28.3
138	25.1	21.4	32.2

