

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011916\
 Data File : BF084555.D
 Acq On : 19 Jan 2016 16:38
 Operator : SJ/UM
 Sample : H1169-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-002(0-2)

Quant Time: Jan 20 00:00:13 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 14:15:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	216455	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	772723	20.00	ng	-0.03
38) Acenaphthene-d10	9.84	164	394656	20.00	ng	-0.03
63) Phenanthrene-d10	11.32	188	643670	20.00	ng	-0.03
75) Chrysene-d12	13.95	240	419819	20.00	ng	-0.05
86) Perylene-d12	15.36	264	393496	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	1358827	101.54	ng	-0.03
7) Phenol-d6	6.44	99	1769224	105.27	ng	-0.03
23) Nitrobenzene-d5	7.36	82	1004095	72.32	ng	-0.05
41) 2,4,6-Tribromophenol	10.62	330	368759	92.55	ng	-0.05
44) 2-Fluorobiphenyl	9.16	172	1598455	70.14	ng	-0.03
78) Terphenyl-d14	12.90	244	1144863	60.87	ng	-0.05

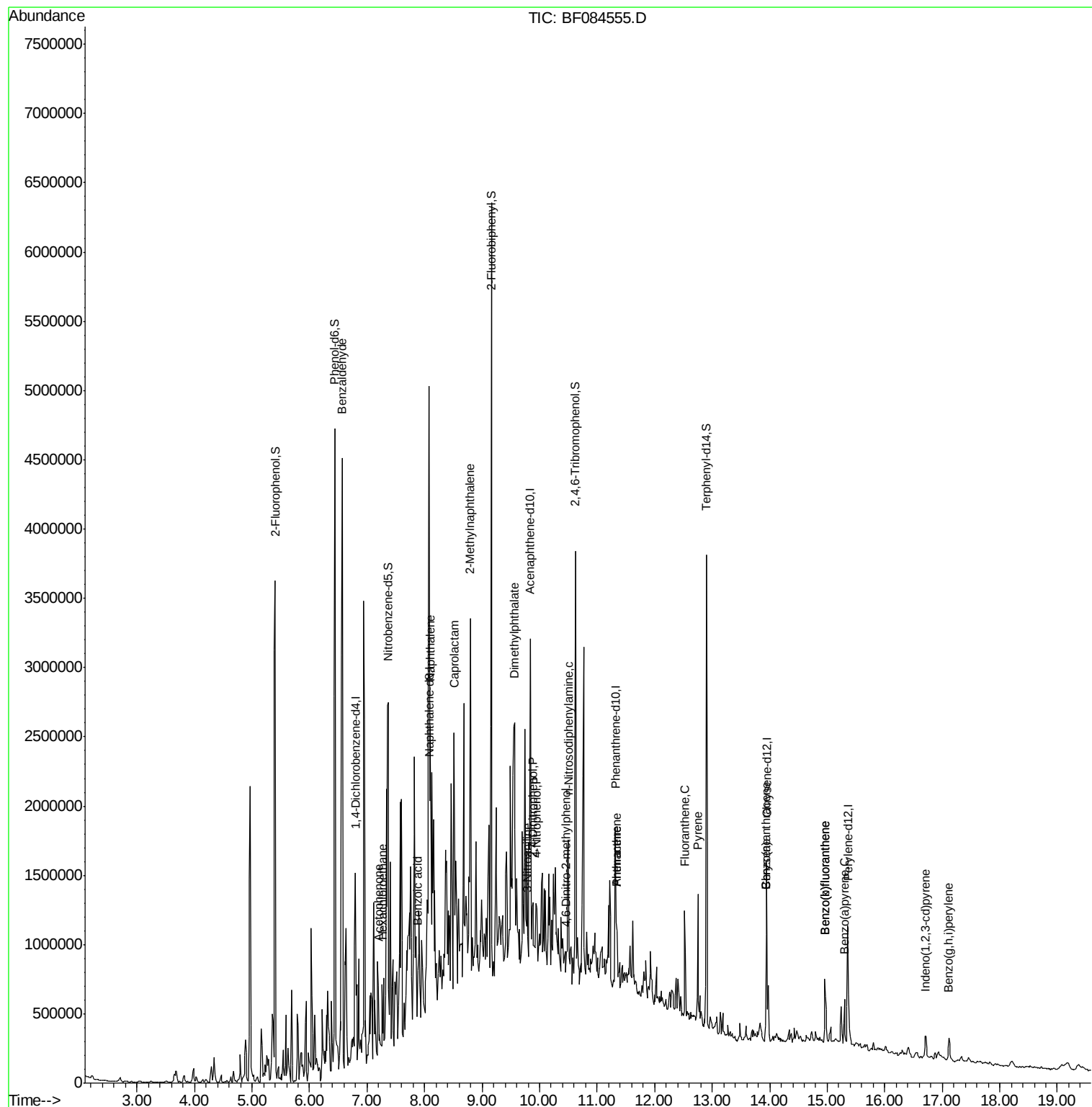
Target Compounds						Qvalue
9) Benzaldehyde	6.57	77	34084	3.11	ng	84
18) Hexachloroethane	7.26	117	28681	4.57	ng	# 1
22) Acetophenone	7.20	105	65260	3.51	ng	# 52
31) Naphthalene	8.10	128	572201	16.32	ng	# 94
32) Benzoic acid	7.88	122	6927	6.97	ng	# 10
35) Caprolactam	8.51	113	44009	12.08	ng	# 1
37) 2-Methylnaphthalene	8.80	142	678729	26.97	ng	97
49) Dimethylphthalate	9.56	163	314197	11.14	ng	# 92
52) 3-Nitroaniline	9.79	138	17651	2.30	ng	# 12
53) 2,4-Dinitrophenol	9.88	184	245	3.65	ng	# 1
54) Dibenzofuran	10.04	168	43782	Below	Cal	# 40
55) 4-Nitrophenol	9.94	139	12663	2.28	ng	# 20
57) Fluorene	10.38	166	46693	Below	Cal	# 90
60) 4-Chlorophenyl-phenylether	10.38	204	1743	Below	Cal	# 1
64) 4,6-Dinitro-2-methylphenol	10.45	198	983	6.61	ng	# 1
65) n-Nitrosodiphenylamine	10.50	169	99790	4.85	ng	# 39
70) Phenanthrene	11.34	178	231732	6.88	ng	97
71) Anthracene	11.34	178	231732	7.02	ng	97
73) Di-n-butylphthalate	11.86	149	4663	Below	Cal	# 47
74) Fluoranthene	12.52	202	366412	10.42	ng	97
77) Pyrene	12.75	202	379334	11.51	ng	99
80) Benzo(a)anthracene	13.94	228	211497	8.58	ng	# 91
82) Chrysene	13.94	228	211497	8.93	ng	95
85) Indeno(1,2,3-cd)pyrene	16.71	276	121149	6.45	ng	97
87) Benzo(b)fluoranthene	14.96	252	323050	12.55	ng	# 96
88) Benzo(k)fluoranthene	14.96	252	323050	15.35	ng	98
89) Benzo(a)pyrene	15.30	252	152439	6.98	ng	# 96
91) Benzo(g,h,i)perylene	17.12	276	121322	6.24	ng	98

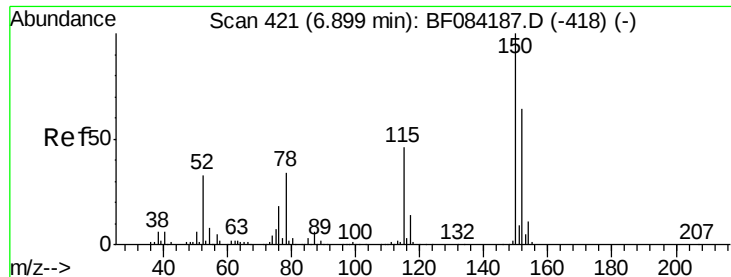
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 20 00:00:13 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 14 14:15:52 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 412

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

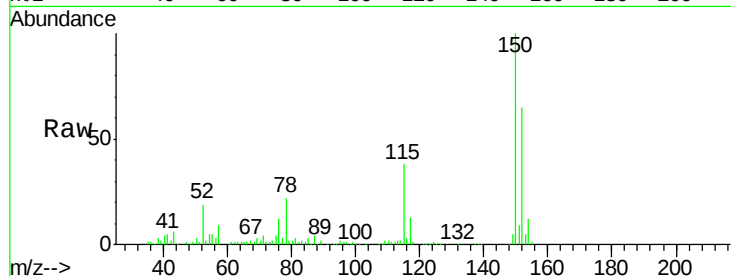
Tgt Ion:152 Resp: 216455

Ion Ratio Lower Upper

152 100

150 154.7 123.0 184.4

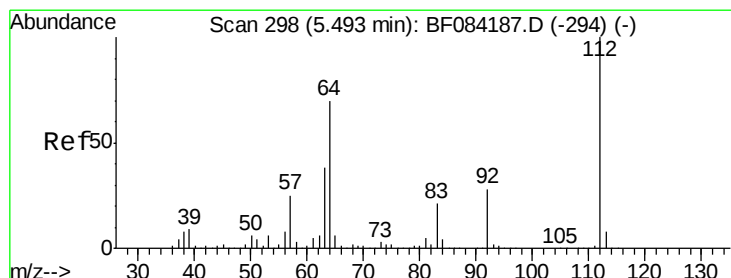
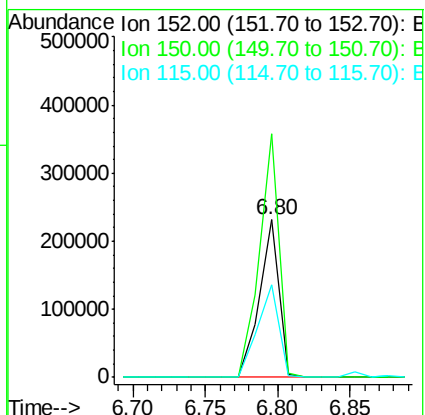
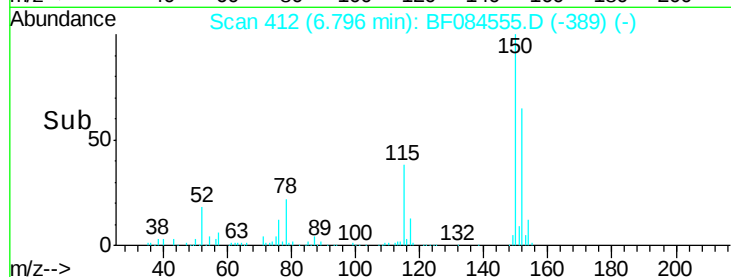
115 58.6 51.4 77.2



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: 101.54 ng

RT: 5.40 min Scan# 290

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

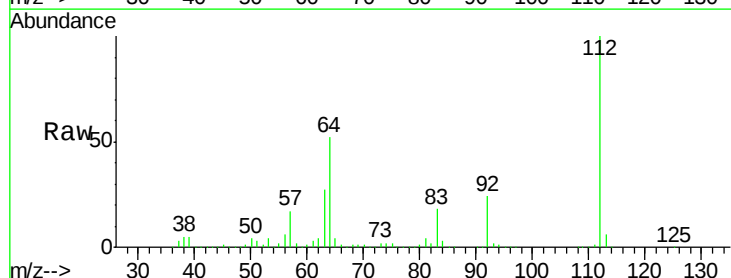
Tgt Ion:112 Resp: 1358827

Ion Ratio Lower Upper

112 100

64 52.4 36.6 55.0

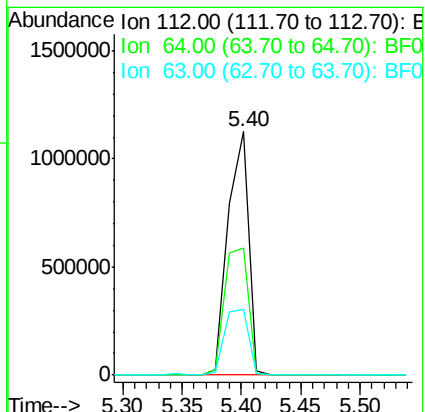
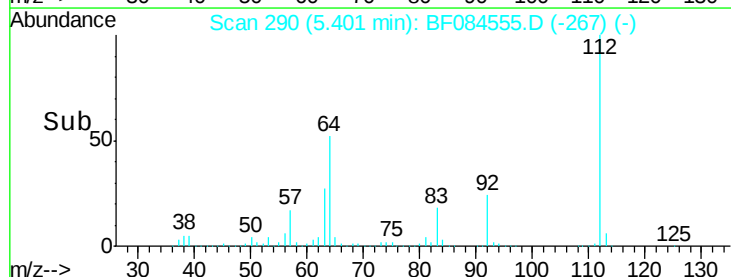
63 27.0 19.4 29.0

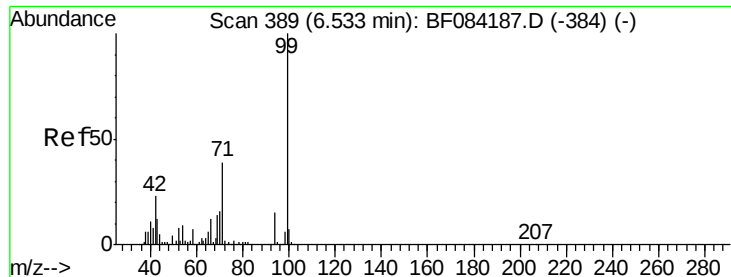


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 105.27 ng

RT: 6.44 min Scan# 381

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

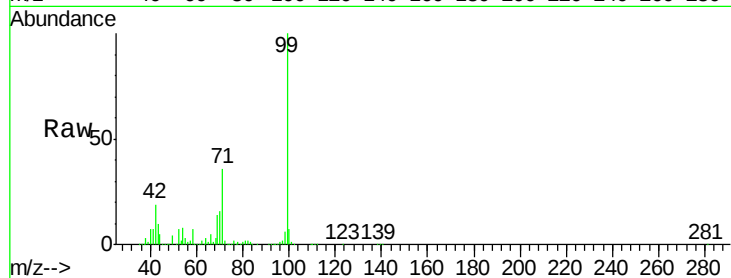
Tgt Ion: 99 Resp: 1769224

Ion Ratio Lower Upper

99 100

42 18.5 12.8 19.2

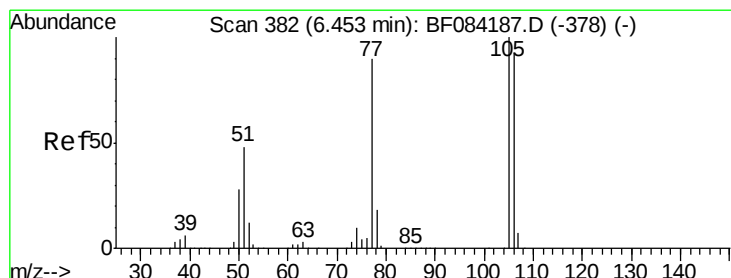
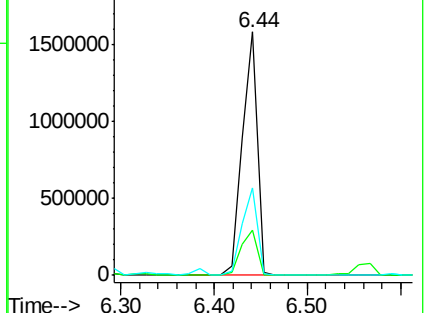
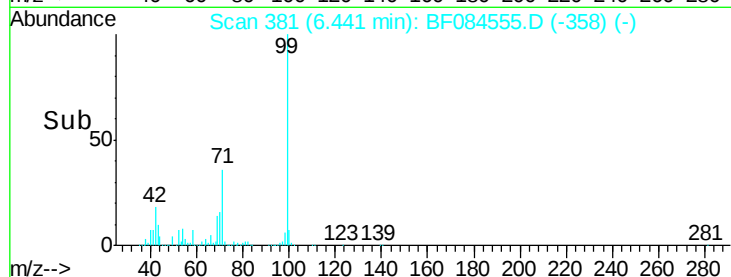
71 35.9 30.9 46.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.11 ng

RT: 6.57 min Scan# 392

Delta R.T. 0.18 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

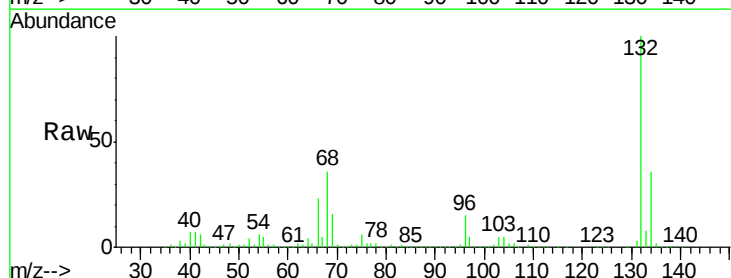
Tgt Ion: 77 Resp: 34084

Ion Ratio Lower Upper

77 100

105 85.7 83.0 123.0

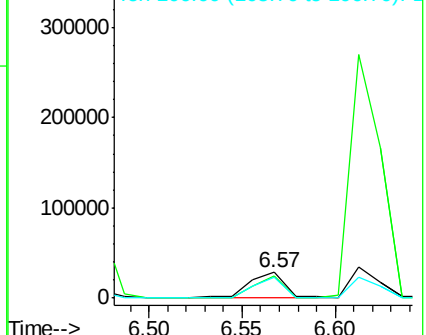
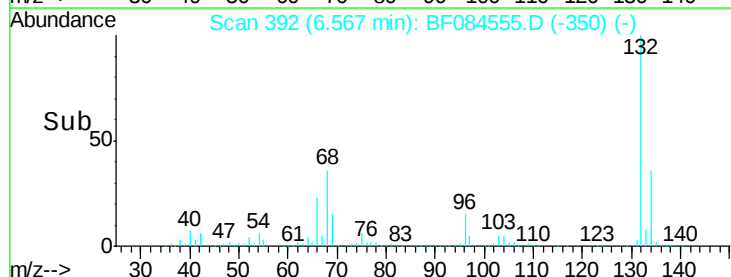
106 79.9 74.6 114.6

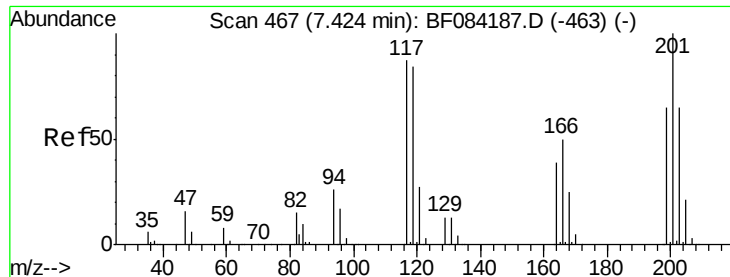


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#18

Hexachloroethane

Concen: 4.57 ng

RT: 7.26 min Scan# 453

Delta R.T. -0.08 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

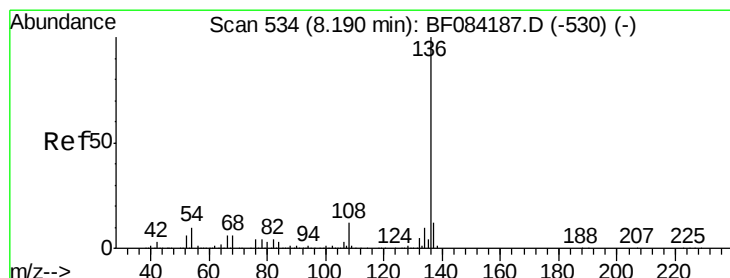
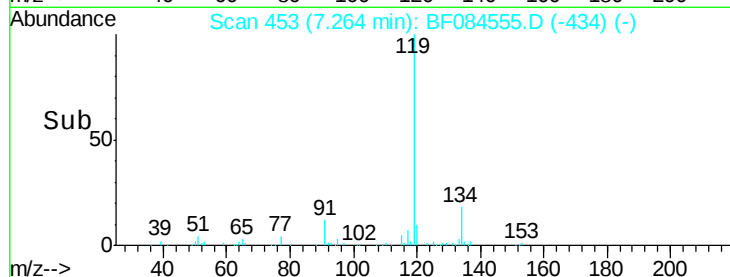
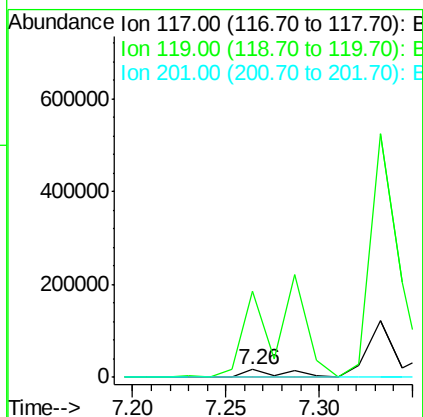
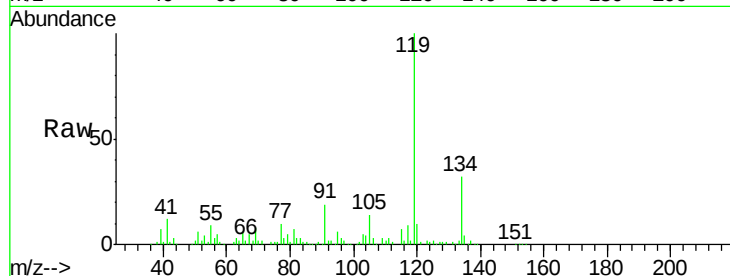
Tgt Ion:117 Resp: 28681

Ion Ratio Lower Upper

117 100

119 1118.8 77.4 116.0#

201 0.0 68.6 103.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 525

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Tgt Ion:136 Resp: 772723

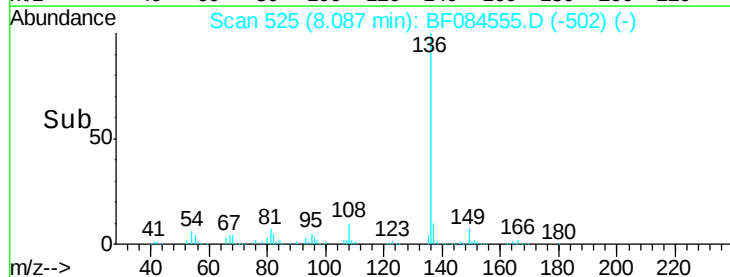
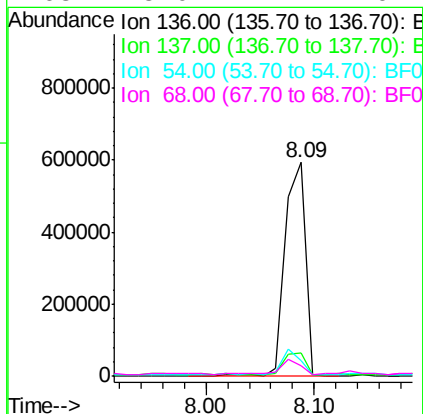
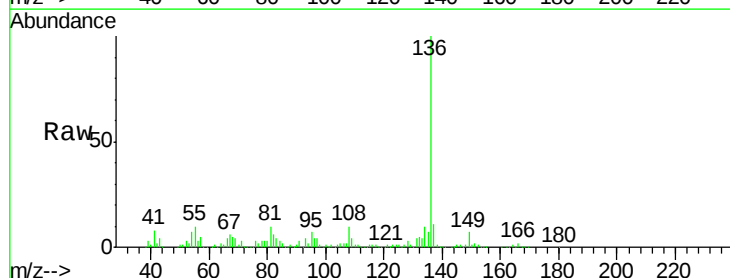
Ion Ratio Lower Upper

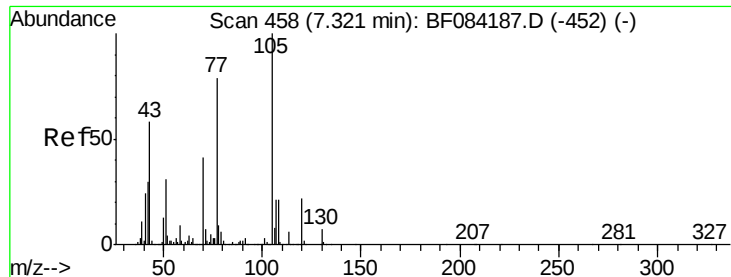
136 100

137 10.9 8.7 13.1

54 7.1 5.8 8.8

68 5.0 4.2 6.2

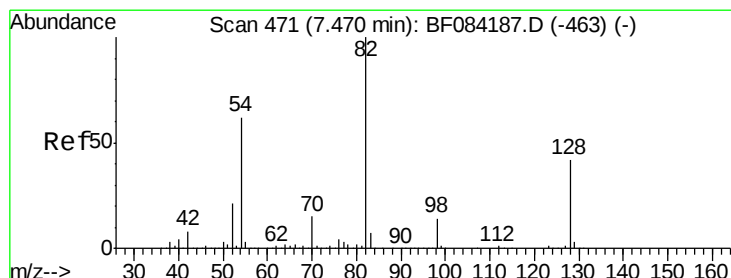
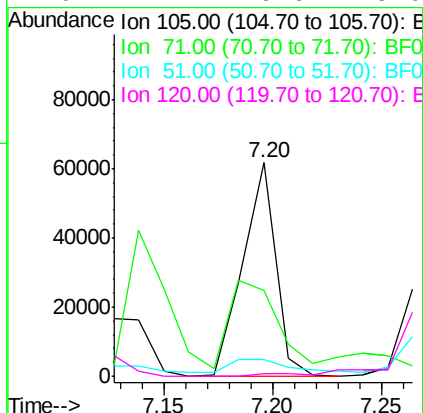
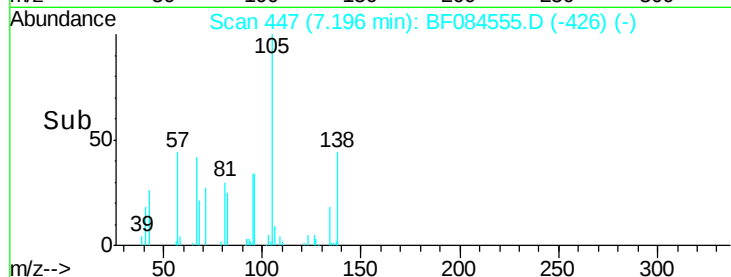
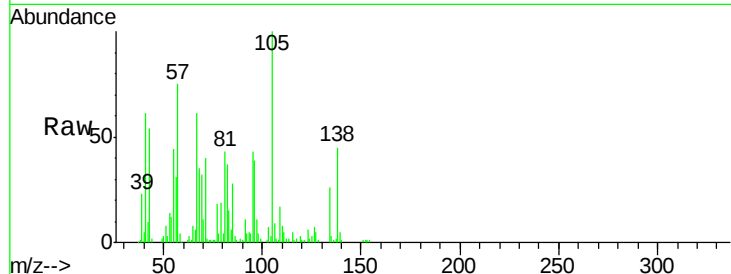




#22
Acetophenone
Concen: 3.51 ng
RT: 7.20 min Scan# 447
Delta R.T. -0.06 min
Lab File: BF084555.D
Acq: 19 Jan 2016 16:38

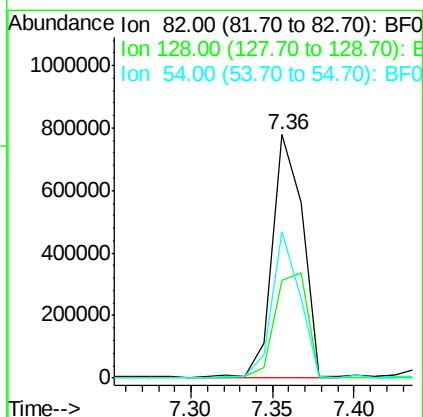
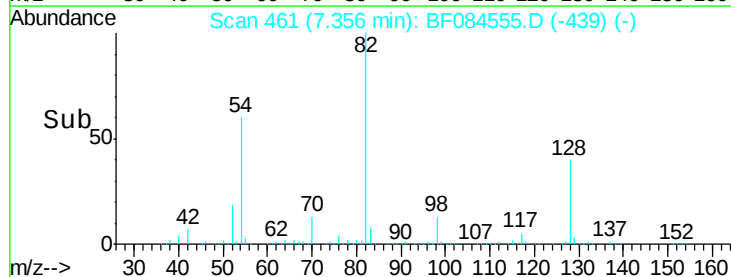
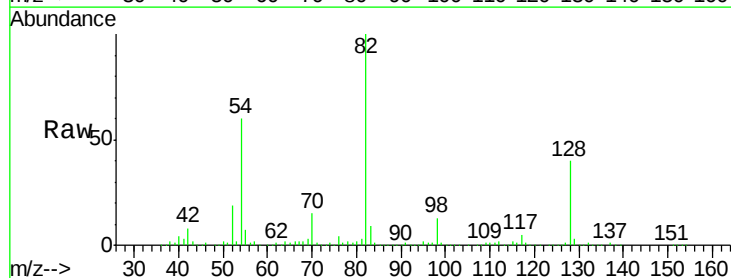
Instrument :
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ClientSampleId :
SP-002(0-2)

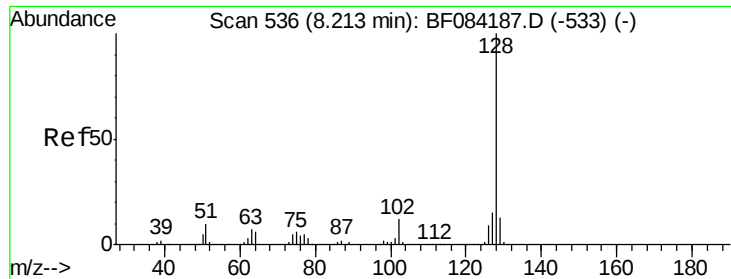
Tgt Ion: 105 Resp: 65260
Ion Ratio Lower Upper
105 100
71 40.3 3.7 5.5#
51 7.7 25.1 37.7#
120 1.1 16.6 25.0#



#23
Nitrobenzene-d5
Concen: 72.32 ng
RT: 7.36 min Scan# 461
Delta R.T. -0.05 min
Lab File: BF084555.D
Acq: 19 Jan 2016 16:38

Tgt Ion: 82 Resp: 1004095
Ion Ratio Lower Upper
82 100
128 40.2 34.6 51.8
54 60.3 38.4 57.6#

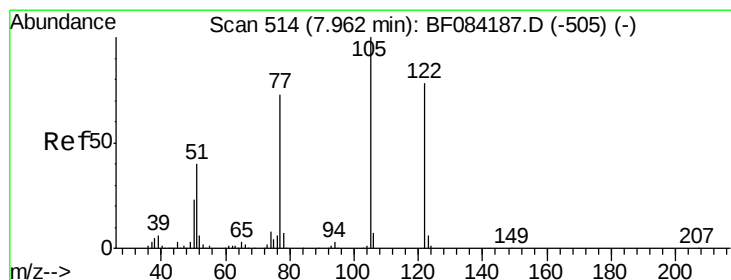
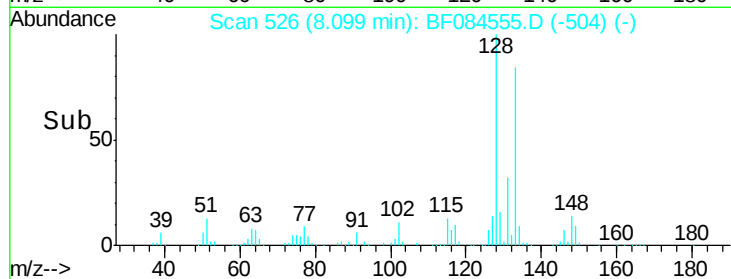
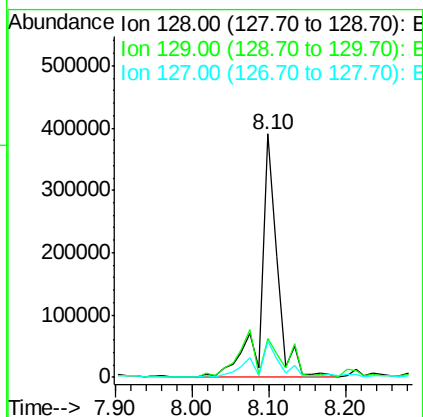
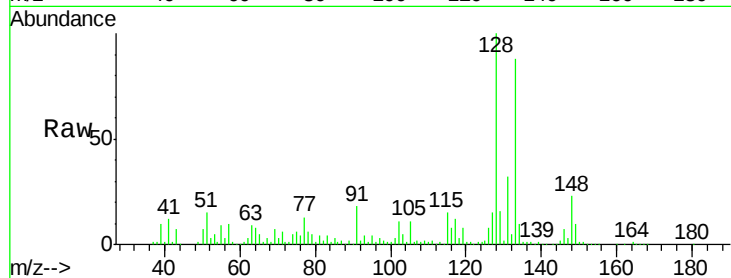




#31
Naphthalene
Concen: 16.32 ng
RT: 8.10 min Scan# 526
Delta R.T. -0.05 min
Lab File: BF084555.D
Acq: 19 Jan 2016 16:38

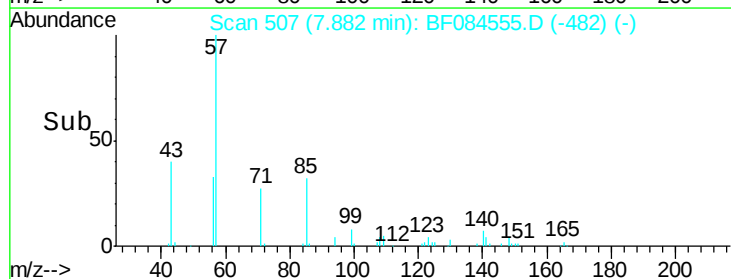
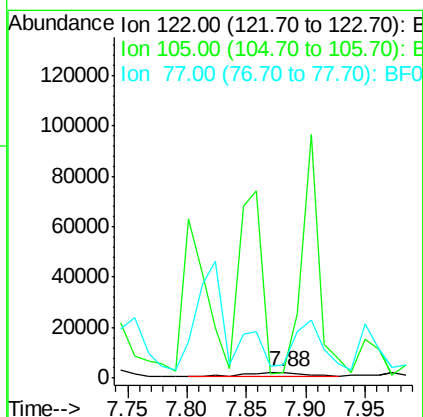
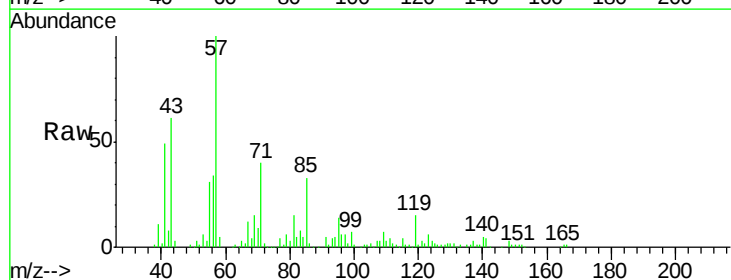
Instrument :
BNA_F
ClientSampleId :
SP-002(0-2)

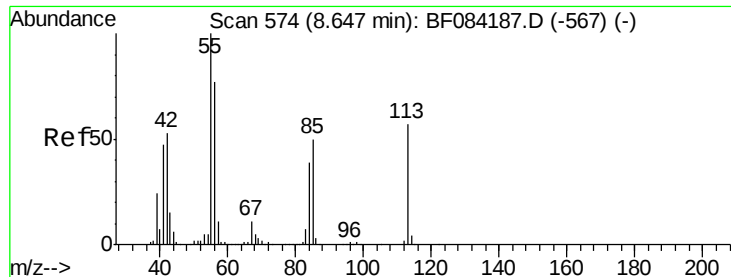
Tgt Ion:128 Resp: 572201
Ion Ratio Lower Upper
128 100
129 15.9 9.1 13.7#
127 14.7 11.1 16.7



#32
Benzoic acid
Concen: 6.97 ng
RT: 7.88 min Scan# 507
Delta R.T. -0.01 min
Lab File: BF084555.D
Acq: 19 Jan 2016 16:38

Tgt Ion:122 Resp: 6927
Ion Ratio Lower Upper
122 100
105 86.7 100.3 140.3#
77 241.7 63.5 103.5#





#35

Caprolactam

Concen: 12.08 ng

RT: 8.51 min Scan# 562

Delta R.T. -0.06 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

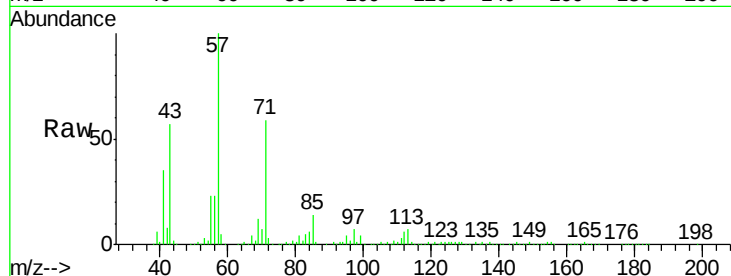
Tgt Ion:113 Resp: 44009

Ion Ratio Lower Upper

113 100

55 345.4 116.9 156.9#

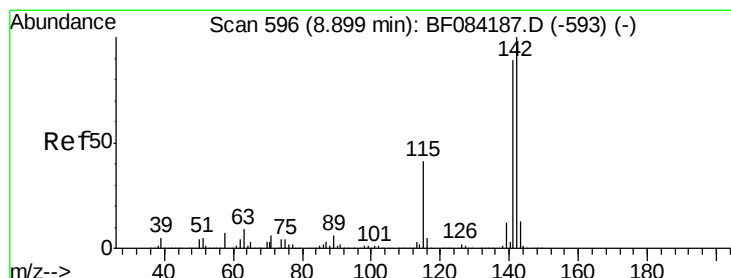
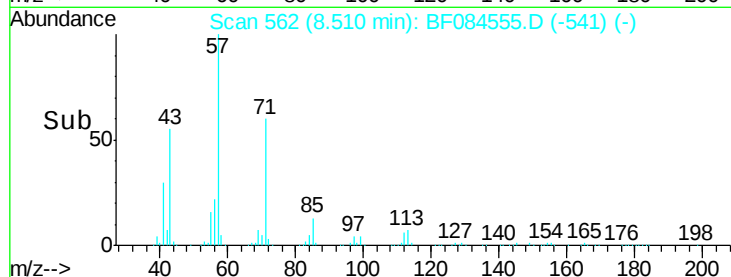
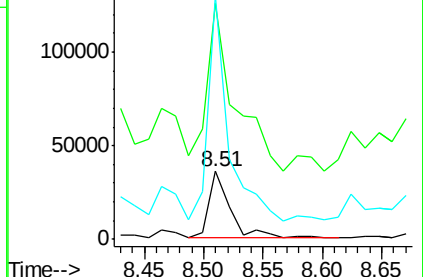
56 357.3 93.8 133.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#37

2-Methylnaphthalene

Concen: 26.97 ng

RT: 8.80 min Scan# 587

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

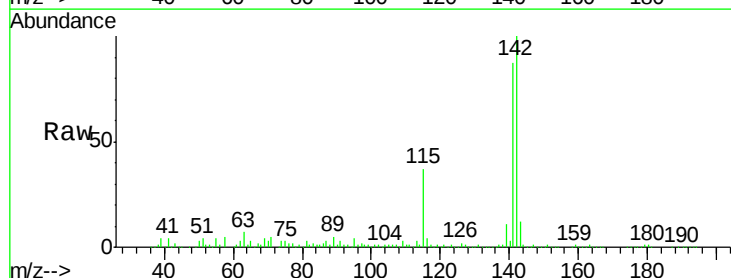
Tgt Ion:142 Resp: 678729

Ion Ratio Lower Upper

142 100

141 87.4 72.4 108.6

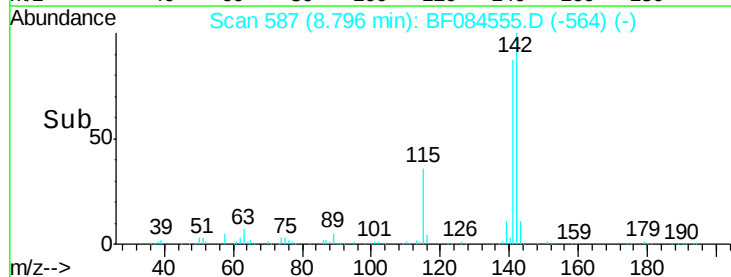
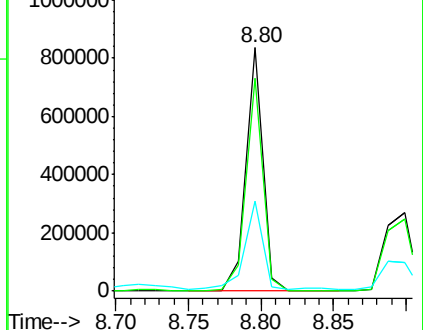
115 37.0 27.9 41.9

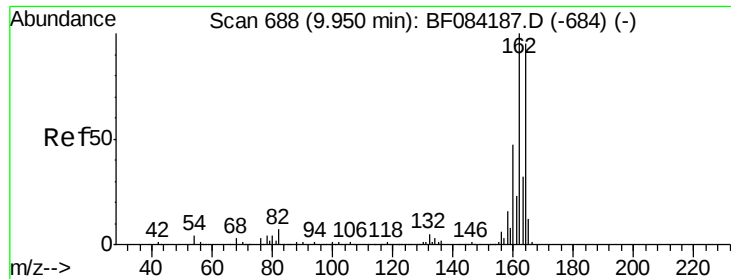


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

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SP-002(0-2)

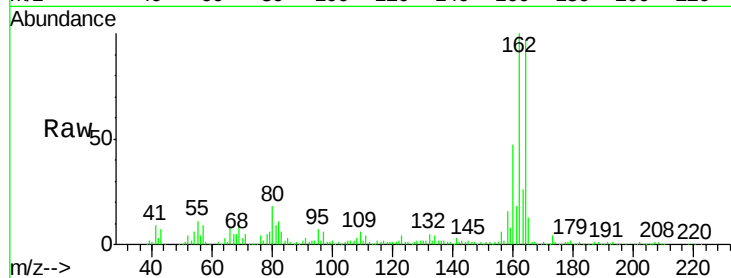
Tgt Ion:164 Resp: 394656

Ion Ratio Lower Upper

164 100

162 103.1 85.1 127.7

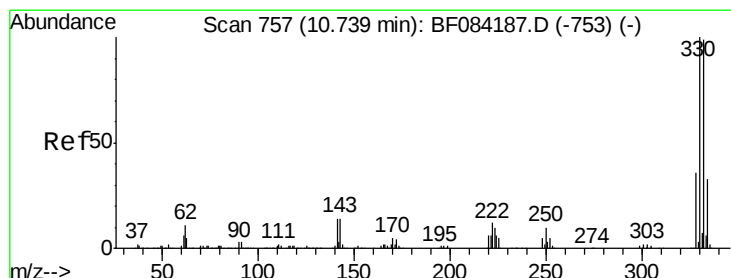
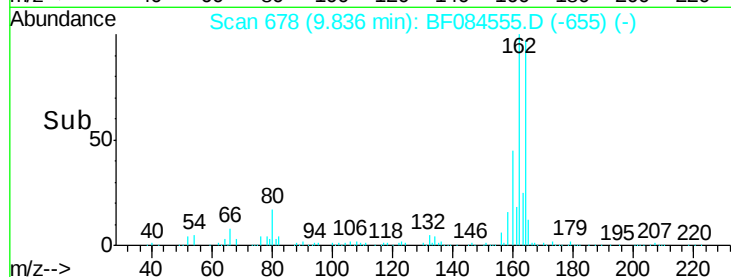
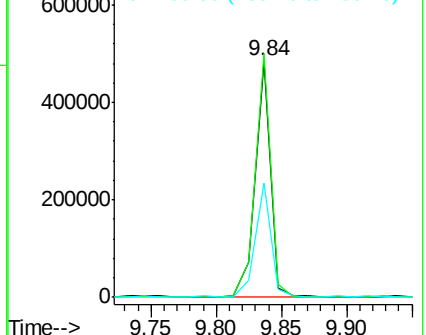
160 48.4 37.5 56.3



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: 92.55 ng

RT: 10.62 min Scan# 747

Delta R.T. -0.05 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

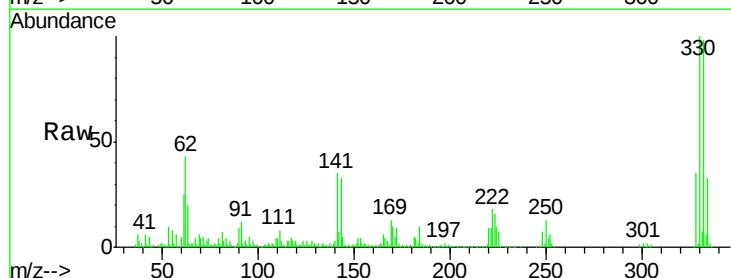
Tgt Ion:330 Resp: 368759

Ion Ratio Lower Upper

330 100

332 97.0 76.6 114.8

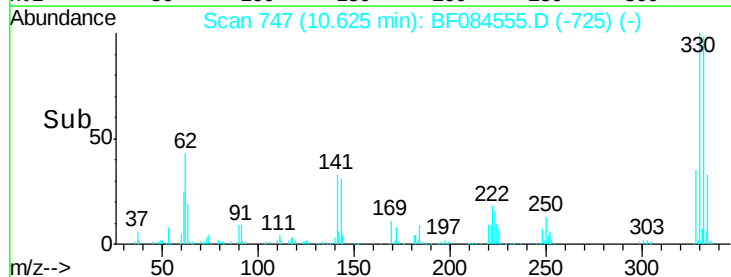
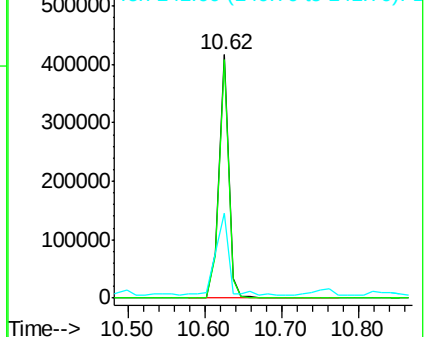
141 42.3 27.8 41.6#

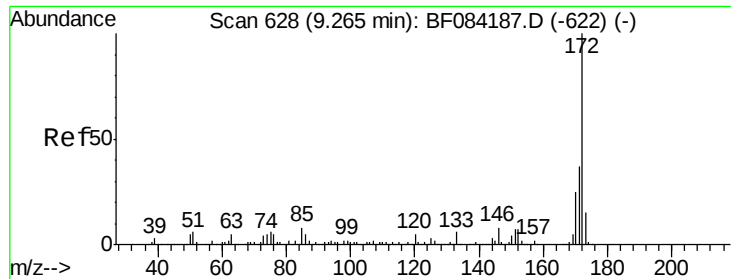


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 70.14 ng

RT: 9.16 min Scan# 619

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

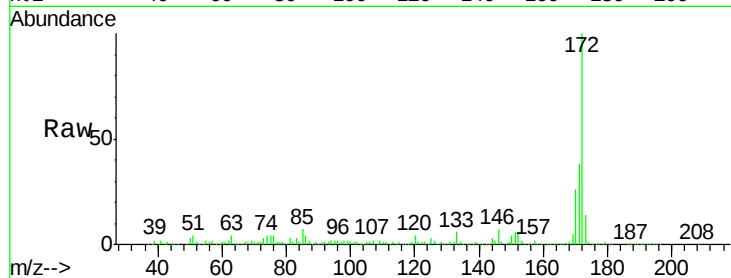
Tgt Ion:172 Resp: 1598455

Ion Ratio Lower Upper

172 100

171 37.9 28.9 43.3

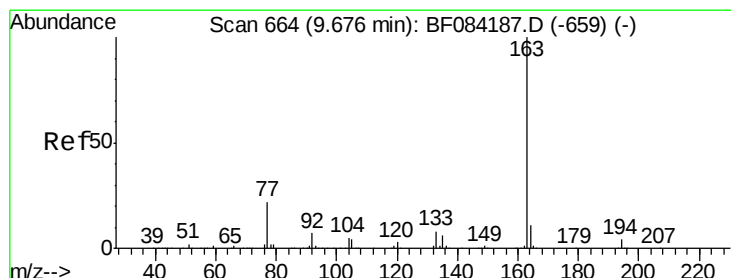
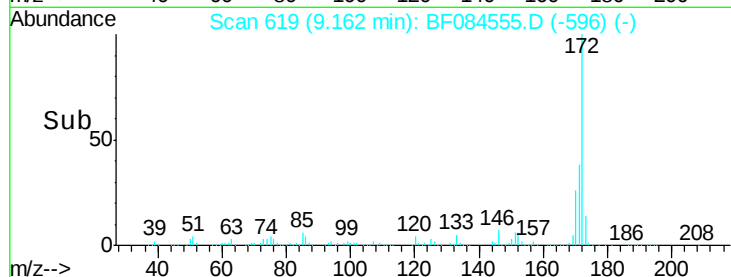
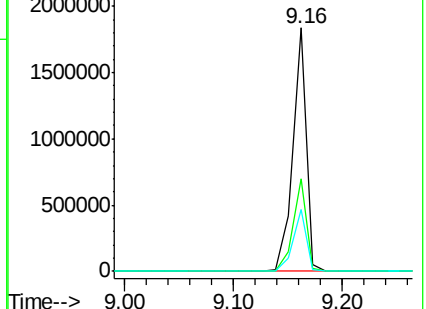
170 25.6 18.6 27.8



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: 11.14 ng

RT: 9.56 min Scan# 654

Delta R.T. -0.05 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

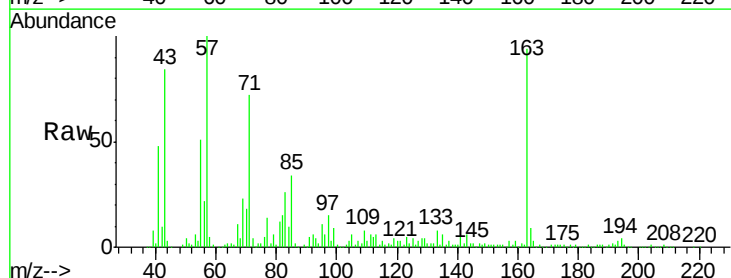
Tgt Ion:163 Resp: 314197

Ion Ratio Lower Upper

163 100

194 3.9 8.0 12.0#

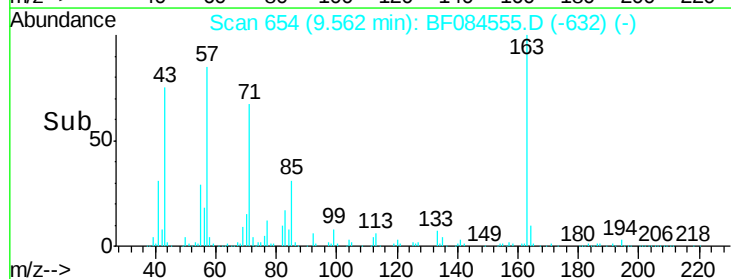
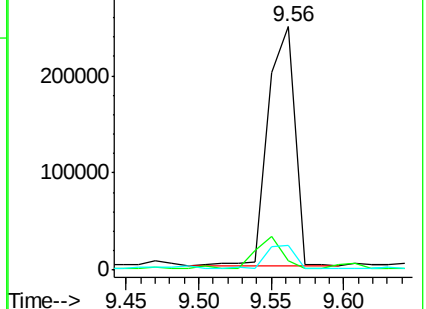
164 10.0 8.0 12.0

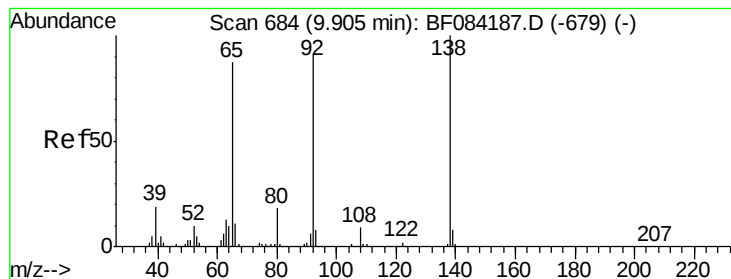


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#52

3-Nitroaniline

Concen: 2.30 ng

RT: 9.79 min Scan# 674

Delta R.T. -0.05 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

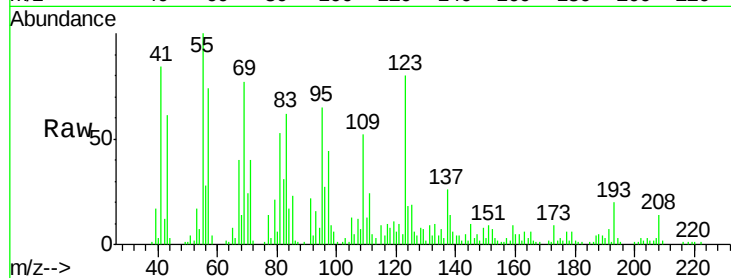
Tgt Ion:138 Resp: 17651

Ion Ratio Lower Upper

138 100

108 47.9 10.5 15.7#

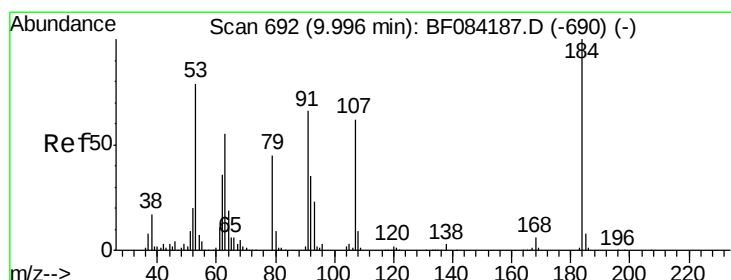
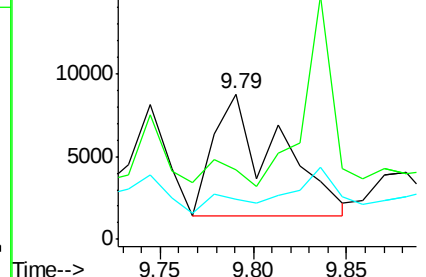
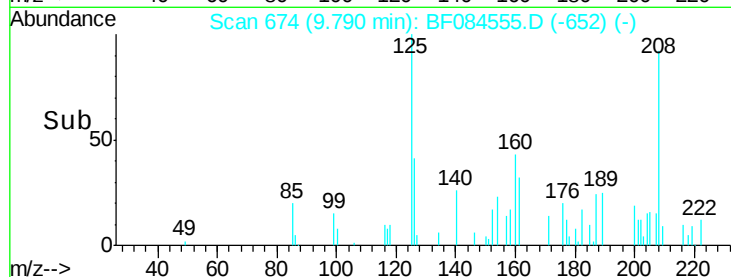
92 27.5 103.9 155.9#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0



#53

2,4-Dinitrophenol

Concen: 3.65 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.06 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

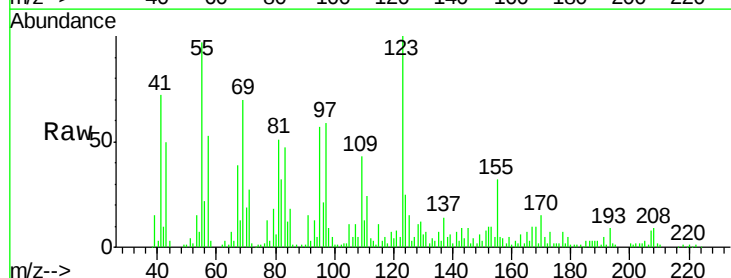
Tgt Ion:184 Resp: 245

Ion Ratio Lower Upper

184 100

63 558.0 43.1 64.7#

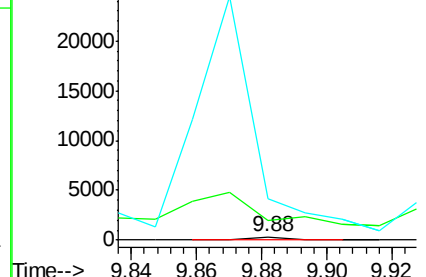
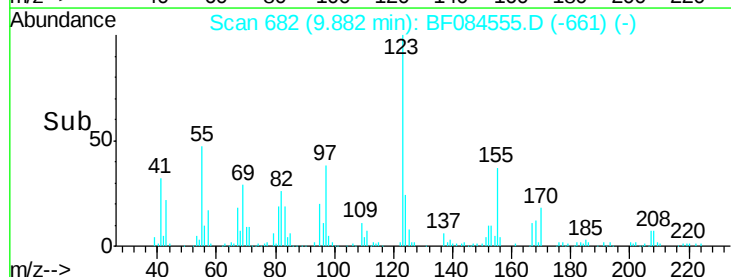
154 1173.7 60.5 90.7#

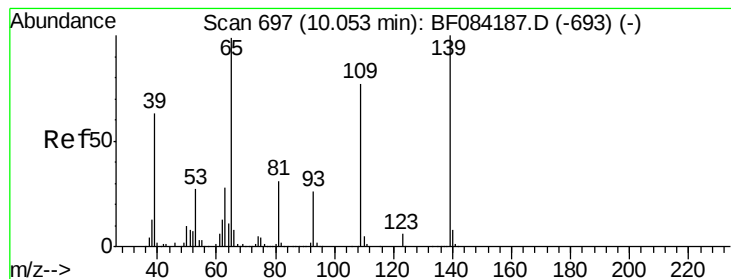


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E





#55

4-Nitrophenol

Concen: 2.28 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.07 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

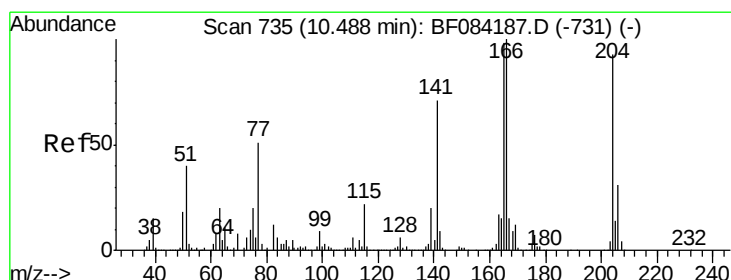
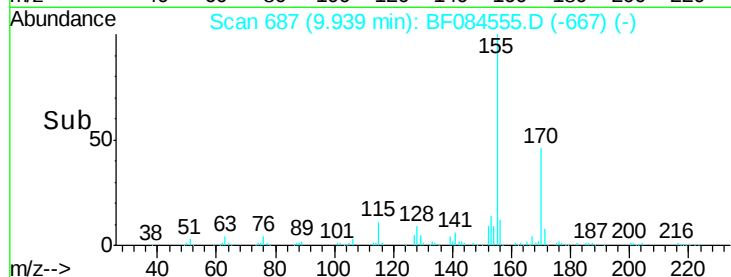
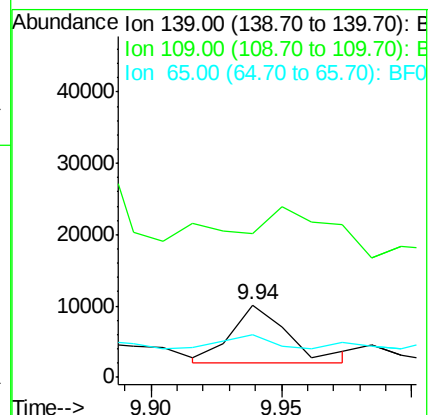
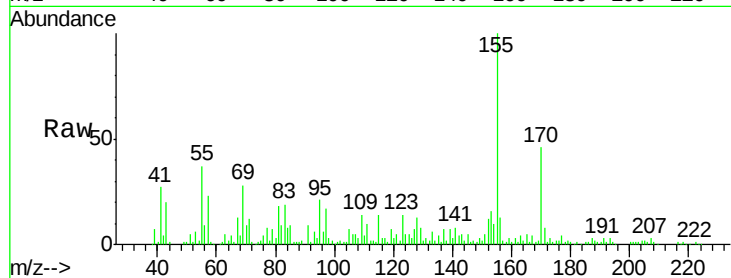
Tgt Ion:139 Resp: 12663

Ion Ratio Lower Upper

139 100

109 198.8 58.5 98.5#

65 58.4 57.6 97.6



#60

4-Chlorophenyl-phenylether

Concen: Below Cal

RT: 10.38 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

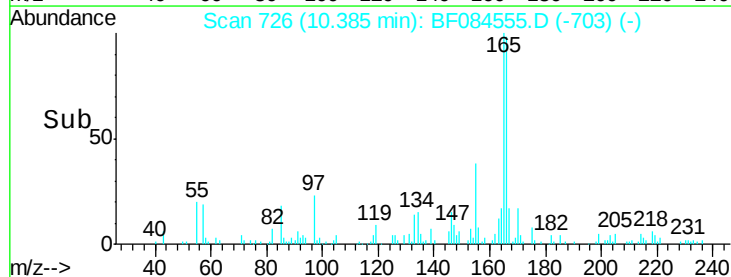
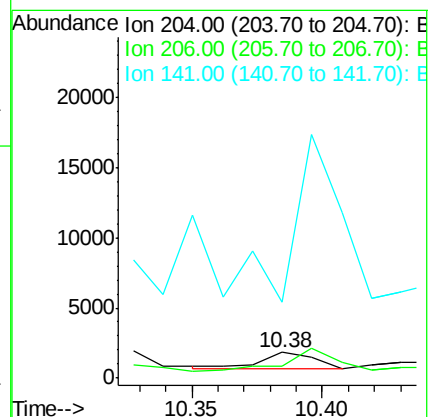
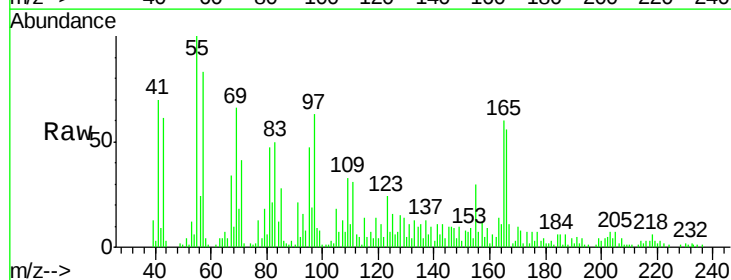
Tgt Ion:204 Resp: 1743

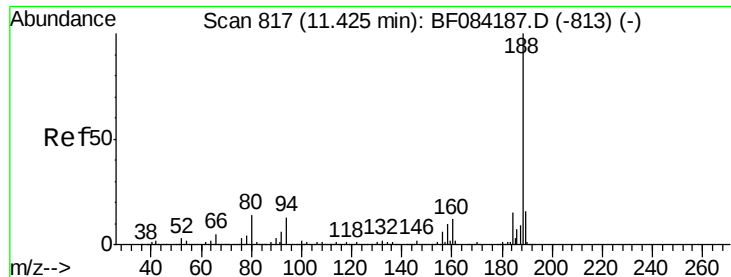
Ion Ratio Lower Upper

204 100

206 44.5 25.7 38.5#

141 292.3 55.1 82.7#

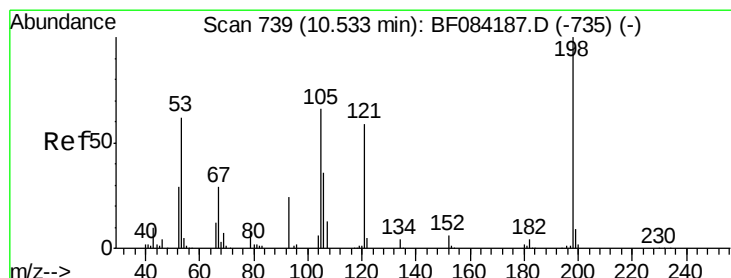
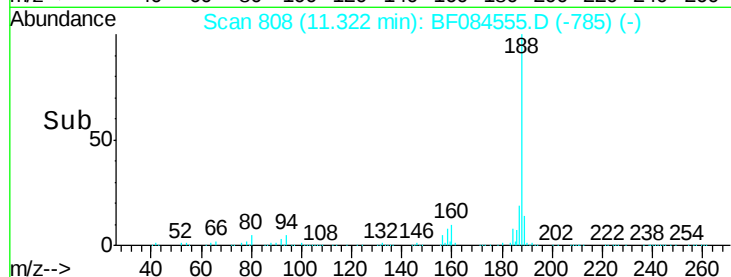
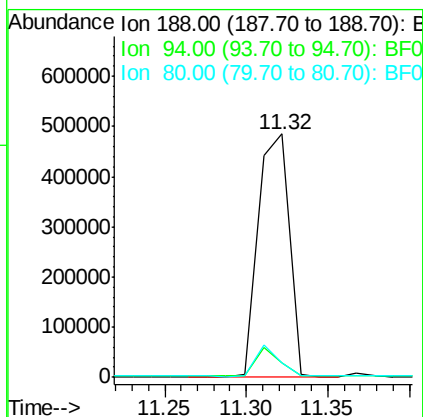
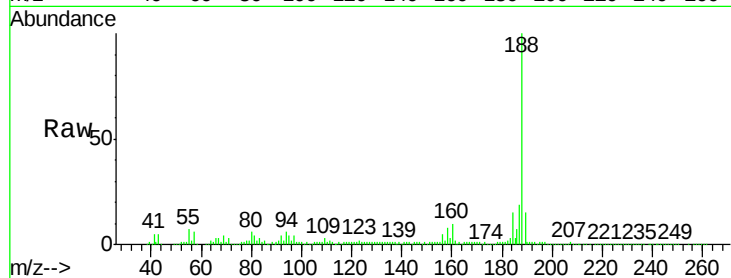




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.32 min Scan# 808
Delta R.T. -0.03 min
Lab File: BF084555.D
Acq: 19 Jan 2016 16:38

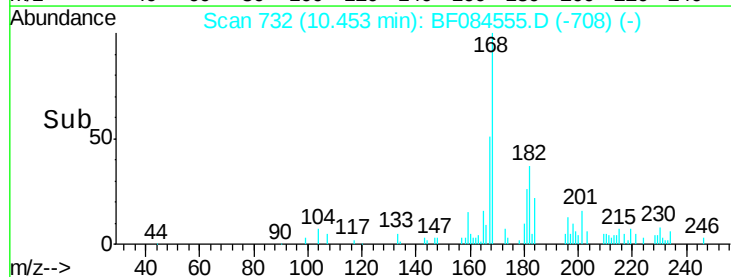
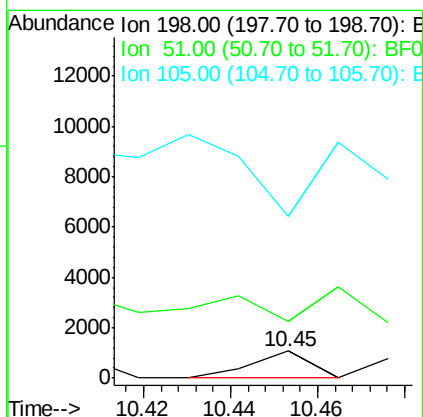
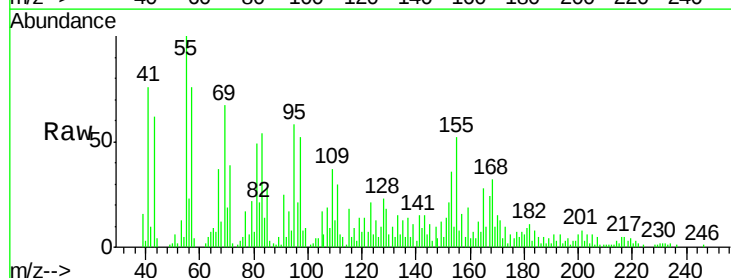
Instrument :
BNA_F
ClientSampleId :
SP-002(0-2)

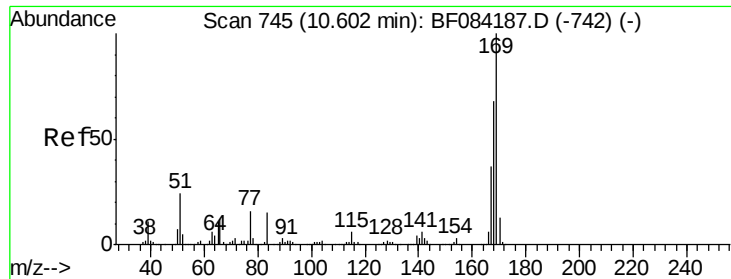
Tgt Ion:188 Resp: 643670
Ion Ratio Lower Upper
188 100
94 5.8 9.0 13.4#
80 5.9 9.6 14.4#



#64
4,6-Dinitro-2-methylphenol
Concen: 6.61 ng
RT: 10.45 min Scan# 732
Delta R.T. -0.02 min
Lab File: BF084555.D
Acq: 19 Jan 2016 16:38

Tgt Ion:198 Resp: 983
Ion Ratio Lower Upper
198 100
51 212.1 18.9 58.9#
105 601.3 26.4 66.4#





#65

n-Nitrosodiphenylamine

Concen: 4.85 ng

RT: 10.50 min Scan# 736

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

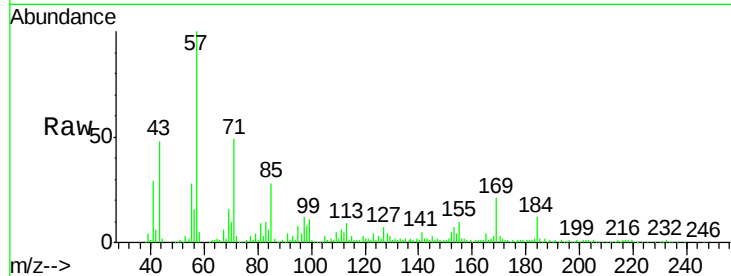
Tgt Ion:169 Resp: 99790

Ion Ratio Lower Upper

169 100

168 13.3 55.1 82.7#

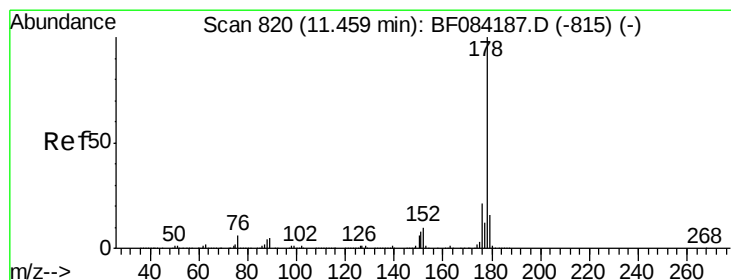
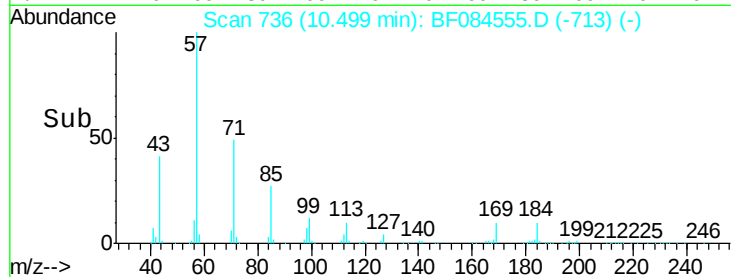
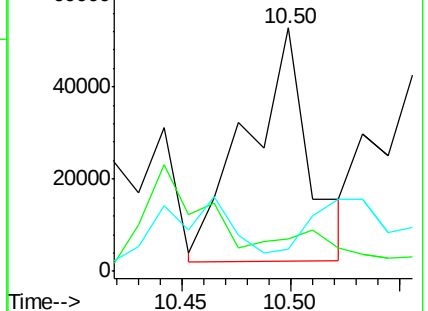
167 9.0 30.0 45.0#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 6.88 ng

RT: 11.34 min Scan# 810

Delta R.T. -0.03 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

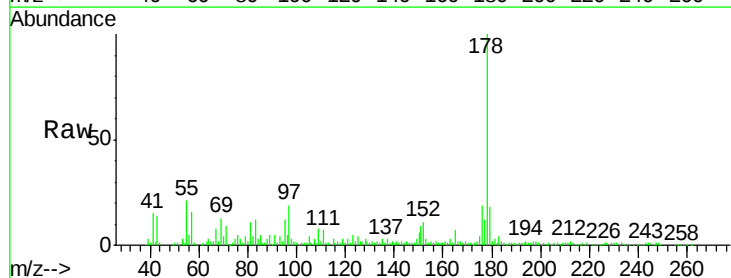
Tgt Ion:178 Resp: 231732

Ion Ratio Lower Upper

178 100

176 18.7 15.3 22.9

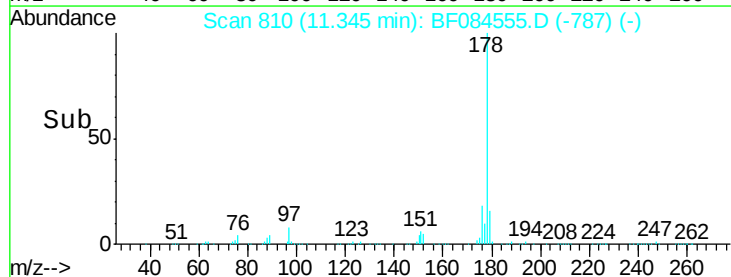
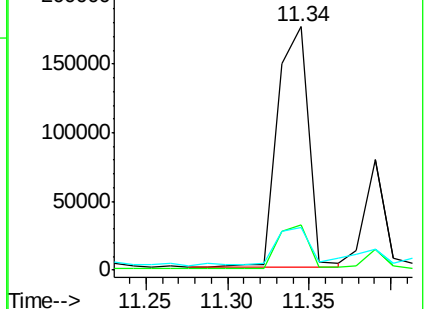
179 17.7 12.0 18.0

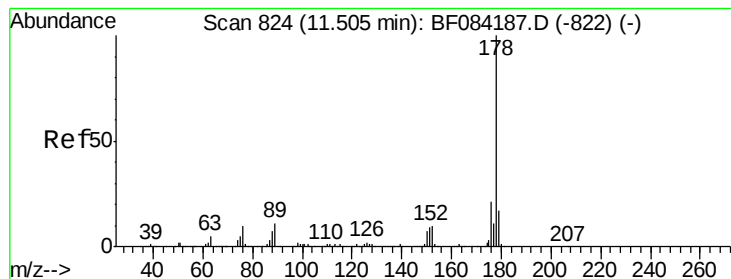


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 7.02 ng

RT: 11.34 min Scan# 810

Delta R.T. -0.09 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

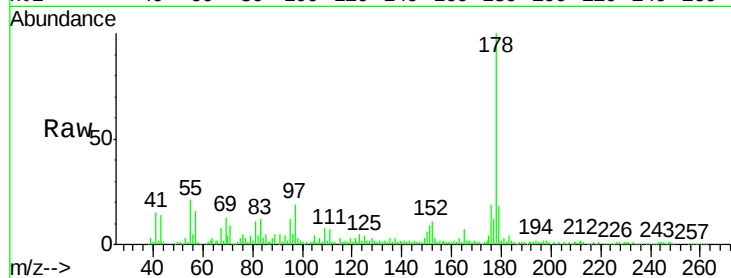
Tgt Ion:178 Resp: 231732

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.0

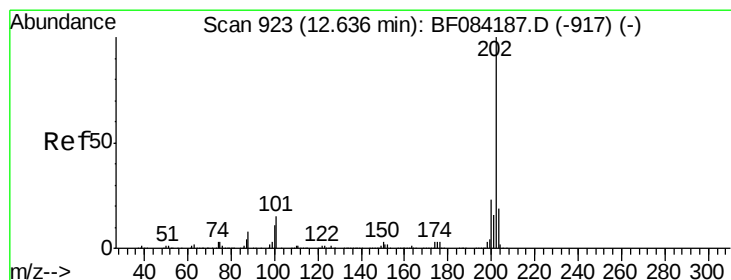
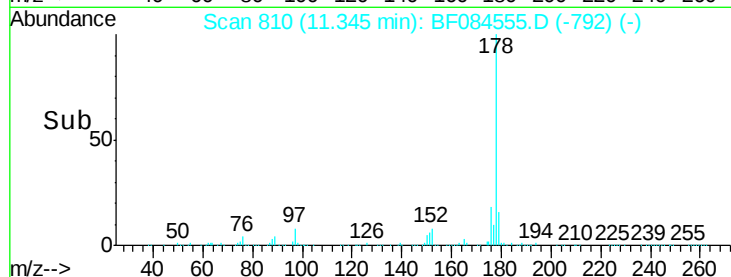
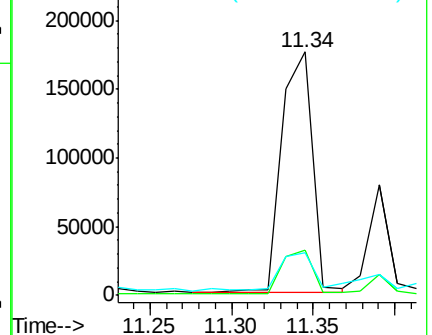
179 17.7 12.5 18.7



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: 10.42 ng

RT: 12.52 min Scan# 913

Delta R.T. -0.05 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

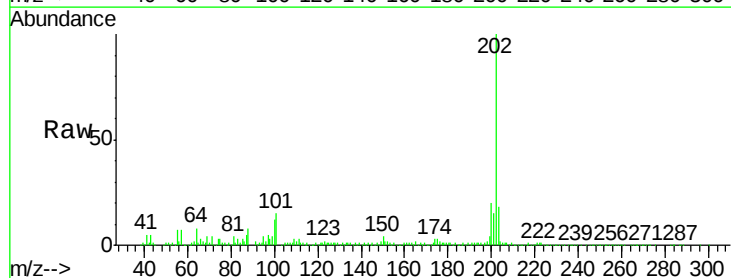
Tgt Ion:202 Resp: 366412

Ion Ratio Lower Upper

202 100

101 14.9 0.0 32.8

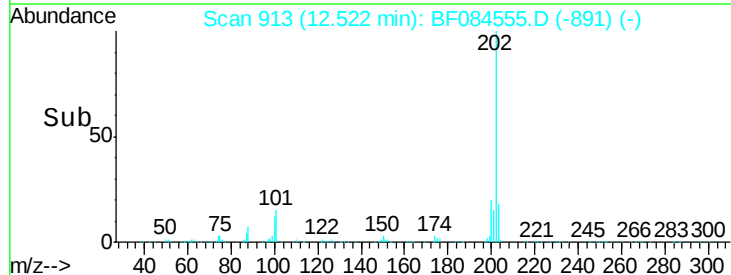
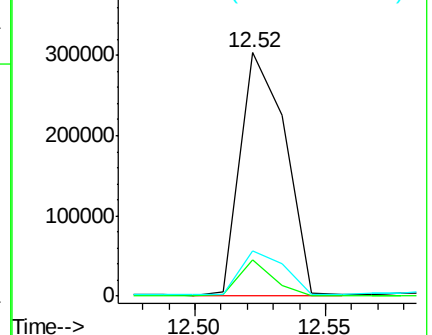
203 18.5 0.0 37.9

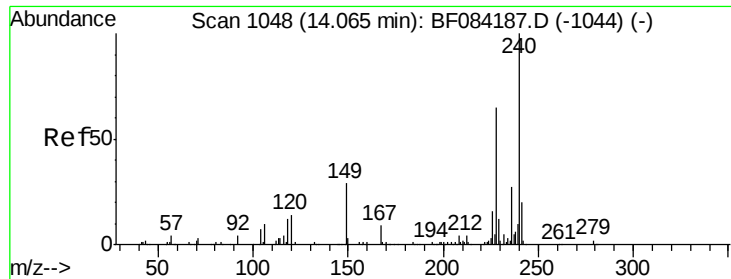


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.95 min Scan# 1038

Delta R.T. -0.05 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

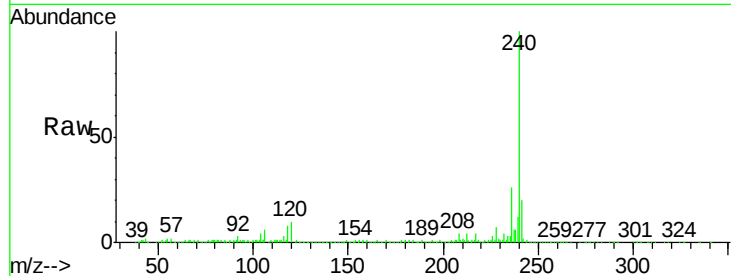
Tgt Ion:240 Resp: 419819

Ion Ratio Lower Upper

240 100

120 9.7 9.5 14.3

236 25.5 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

600000

500000

400000

300000

200000

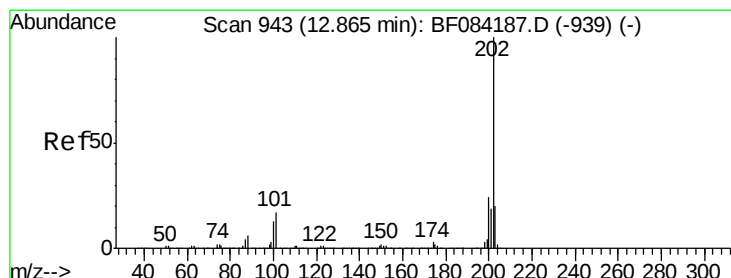
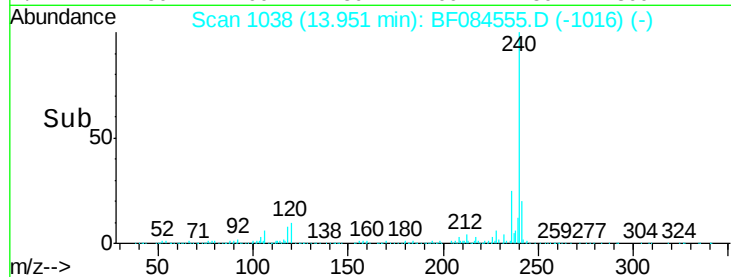
100000

0

13.95

13.90 14.00 14.10

Time-->



#77

Pyrene

Concen: 11.51 ng

RT: 12.75 min Scan# 933

Delta R.T. -0.05 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

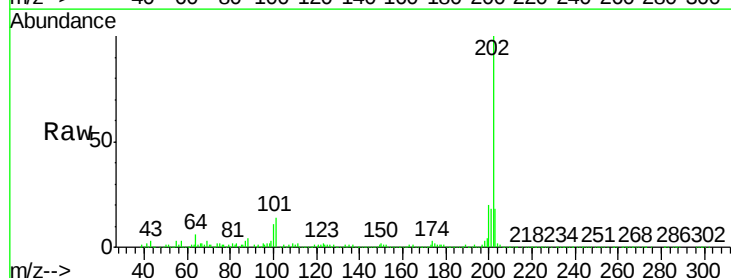
Tgt Ion:202 Resp: 379334

Ion Ratio Lower Upper

202 100

200 20.5 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

500000

400000

300000

200000

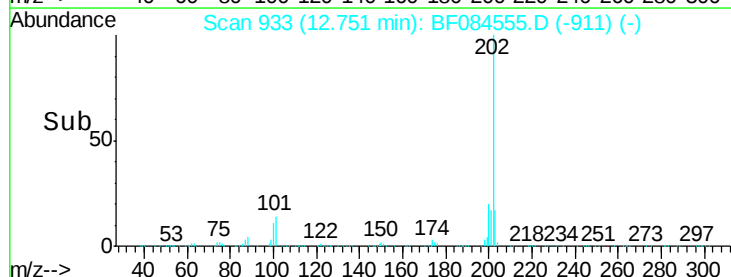
100000

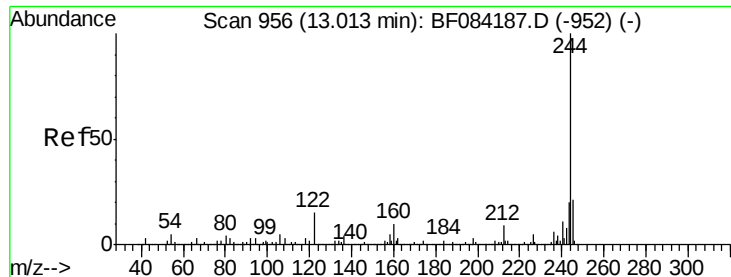
0

12.75

12.70 12.75 12.80

Time-->

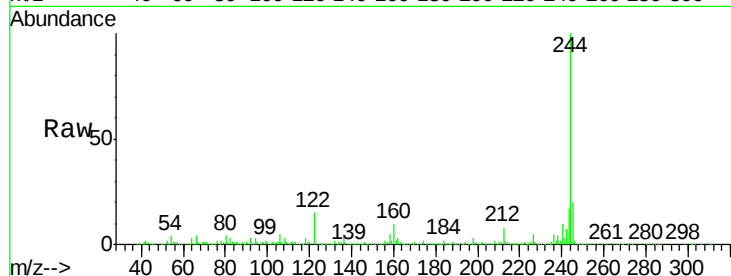




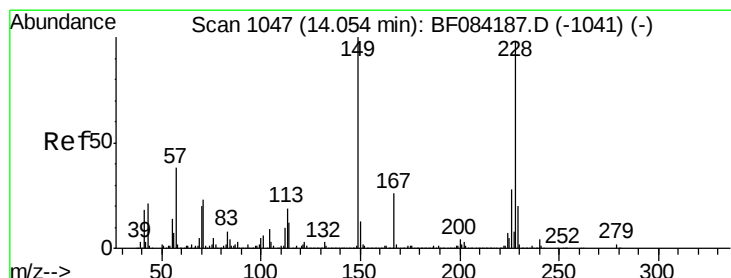
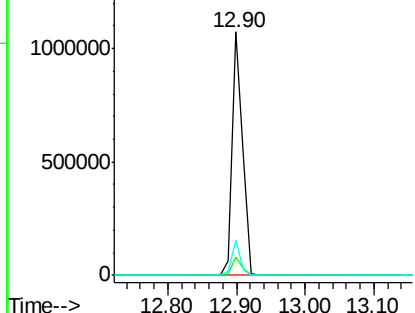
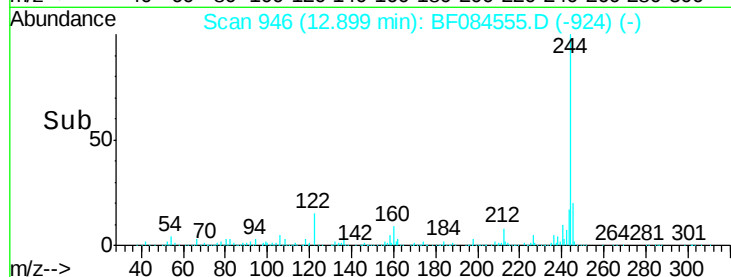
#78
 Terphenyl-d14
 Concen: 60.87 ng
 RT: 12.90 min Scan# 946
 Delta R.T. -0.05 min
 Lab File: BF084555.D
 Acq: 19 Jan 2016 16:38

Instrument :
 BNA_F
 ClientSampled :
 SP-002(0-2)

Tgt Ion:244 Resp: 1144863
 Ion Ratio Lower Upper
 244 100
 212 7.8 5.7 8.5
 122 14.6 7.4 11.0#

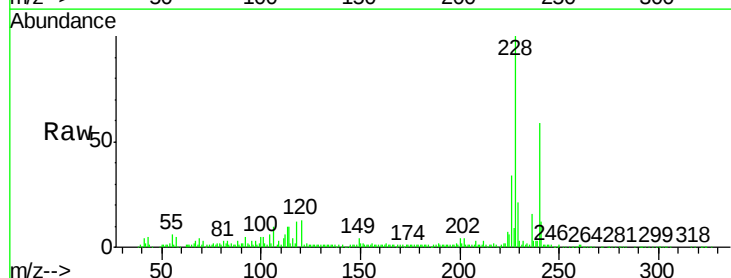


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

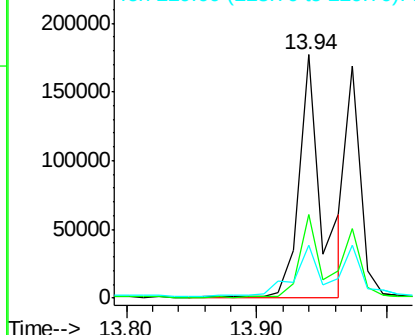
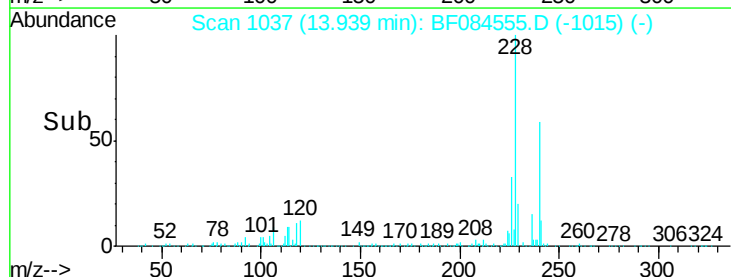


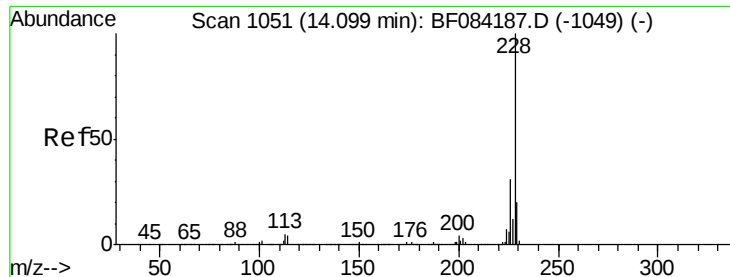
#80
 Benzo(a)anthracene
 Concen: 8.58 ng
 RT: 13.94 min Scan# 1037
 Delta R.T. -0.05 min
 Lab File: BF084555.D
 Acq: 19 Jan 2016 16:38

Tgt Ion:228 Resp: 211497
 Ion Ratio Lower Upper
 228 100
 226 34.1 21.8 32.6#
 229 21.5 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: 8.93 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.08 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

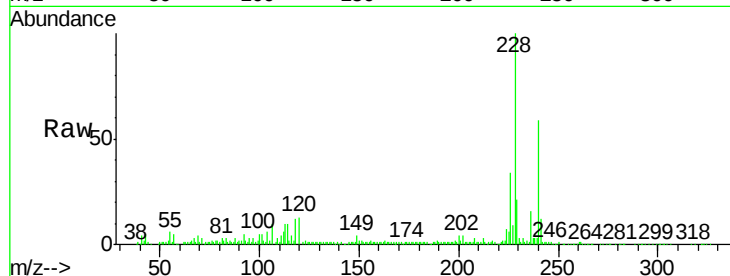
Tgt Ion:228 Resp: 211497

Ion Ratio Lower Upper

228 100

226 34.1 24.3 36.5

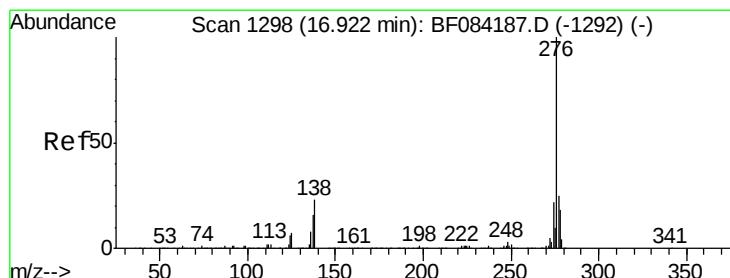
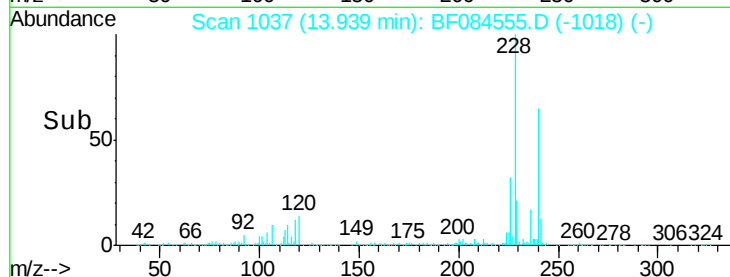
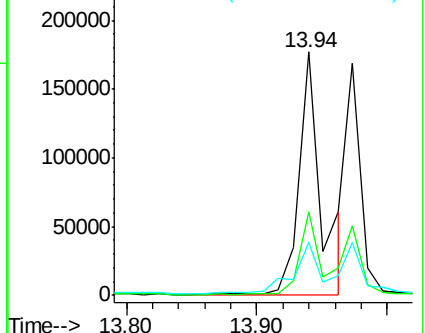
229 21.5 16.1 24.1



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.45 ng

RT: 16.71 min Scan# 1279

Delta R.T. -0.09 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

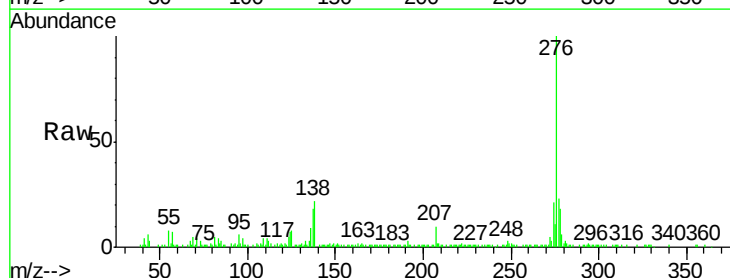
Tgt Ion:276 Resp: 121149

Ion Ratio Lower Upper

276 100

138 23.4 20.6 30.8

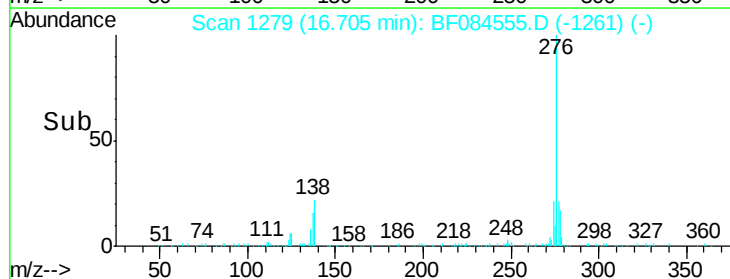
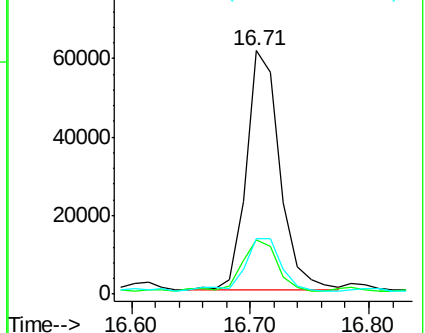
277 24.3 20.1 30.1

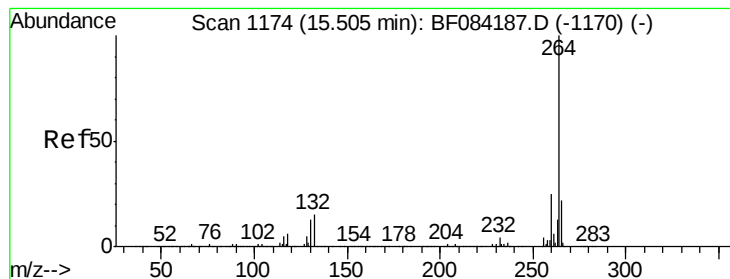


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.36 min Scan# 1161

Delta R.T. -0.06 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

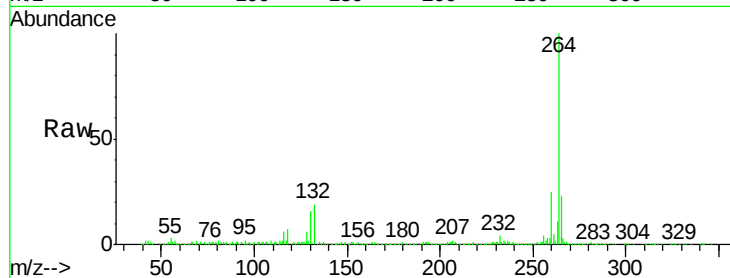
Tgt Ion:264 Resp: 393496

Ion Ratio Lower Upper

264 100

260 24.6 19.4 29.2

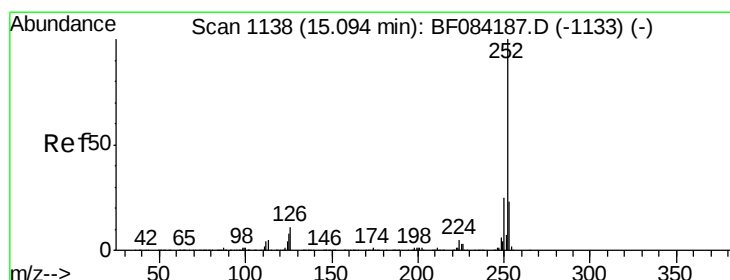
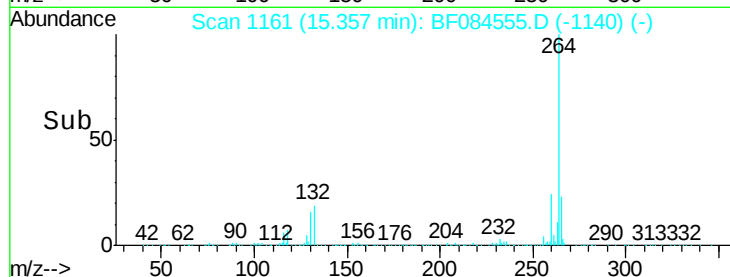
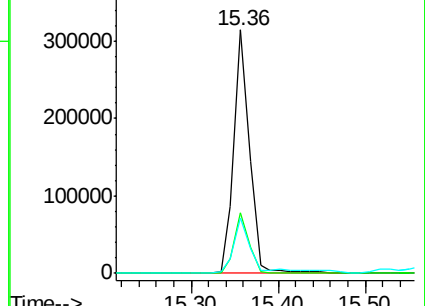
265 23.0 17.8 26.6



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: 12.55 ng

RT: 14.96 min Scan# 1126

Delta R.T. -0.06 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

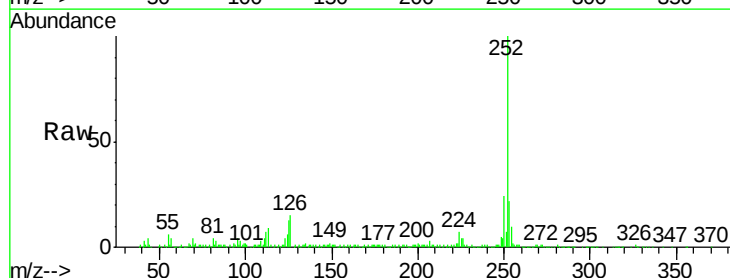
Tgt Ion:252 Resp: 323050

Ion Ratio Lower Upper

252 100

253 21.9 17.3 25.9

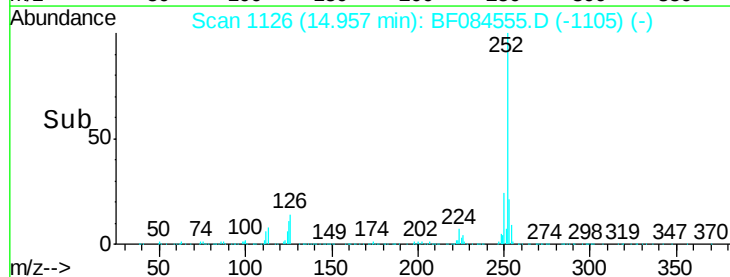
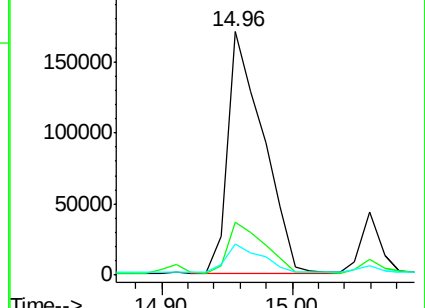
125 12.6 6.5 9.7#

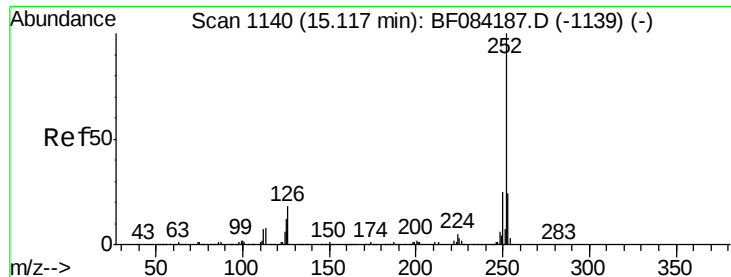


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 15.35 ng

RT: 14.96 min Scan# 1126

Delta R.T. -0.08 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

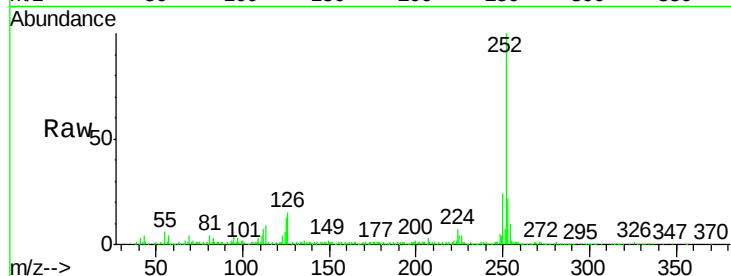
Tgt Ion:252 Resp: 323050

Ion Ratio Lower Upper

252 100

253 21.9 18.1 27.1

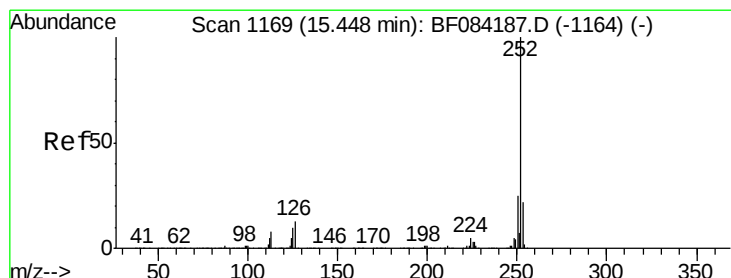
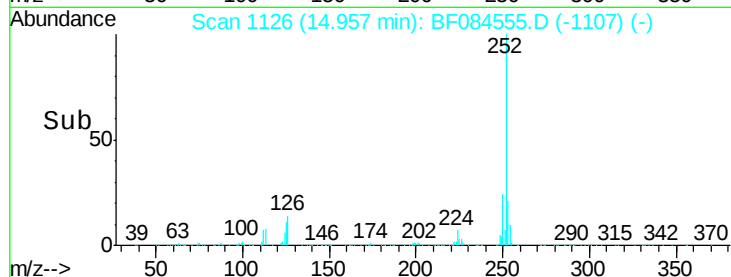
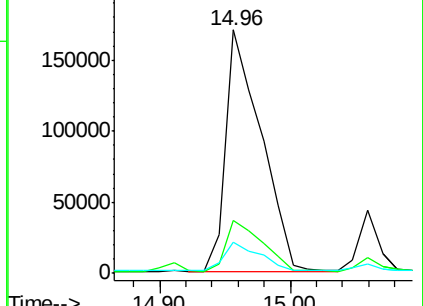
125 12.6 9.0 13.6



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



#89

Benzo(a)pyrene

Concen: 6.98 ng

RT: 15.30 min Scan# 1156

Delta R.T. -0.06 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

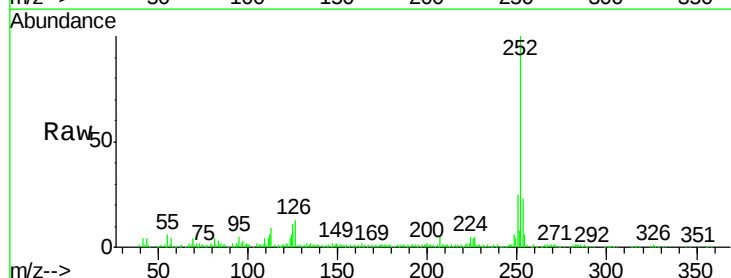
Tgt Ion:252 Resp: 152439

Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

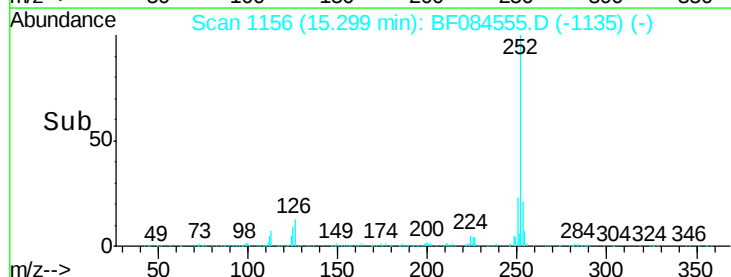
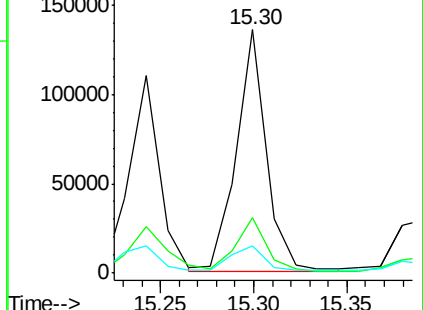
125 11.3 7.0 10.4#

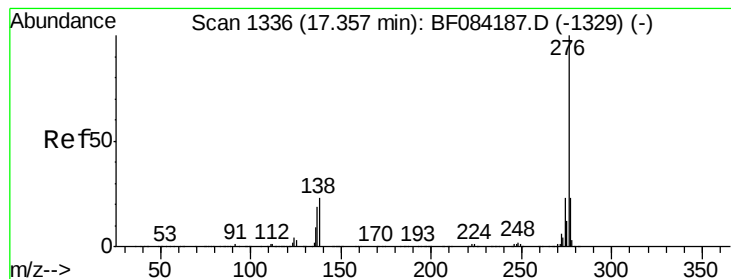


Abundance Ion 252.00 (251.70 to 252.70): E

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: 6.24 ng

RT: 17.12 min Scan# 1315

Delta R.T. -0.10 min

Lab File: BF084555.D

Acq: 19 Jan 2016 16:38

Instrument :

BNA_F

ClientSampleId :

SP-002(0-2)

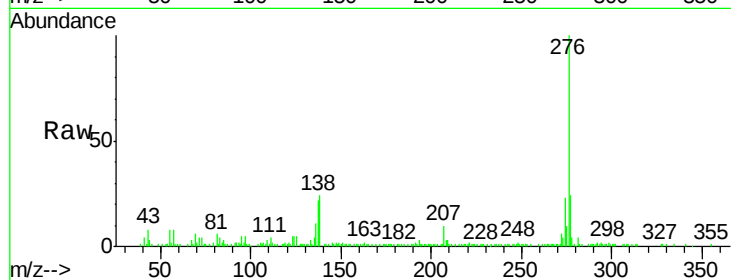
Tgt Ion: 276 Resp: 121322

Ion Ratio Lower Upper

276 100

277 23.7 18.8 28.2

138 23.8 17.8 26.6



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

