

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052615\
 Data File : BF079502.D
 Acq On : 27 May 2015 4:46
 Operator : TP/IZ
 Sample : G2371-03
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SW-023

Quant Time: May 27 06:52:27 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 27 01:32:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	89082	20.00	ng	0.00
21) Naphthalene-d8	8.59	136	361139	20.00	ng	0.00
38) Acenaphthene-d10	10.76	164	181291	20.00	ng	0.00
63) Phenanthrene-d10	12.61	188	346987	20.00	ng	0.01
75) Chrysene-d12	15.89	240	376316	20.00	ng	0.01
86) Perylene-d12	17.59	264	392914	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	504064	98.14	ng	0.00
7) Phenol-d6	6.62	99	725746	110.86	ng	0.00
23) Nitrobenzene-d5	7.71	82	404780	64.79	ng	0.00
41) 2,4,6-Tribromophenol	11.75	330	215964	108.46	ng	0.00
44) 2-Fluorobiphenyl	9.94	172	788215	62.03	ng	0.00
78) Terphenyl-d14	14.59	244	906908	56.56	ng	0.00

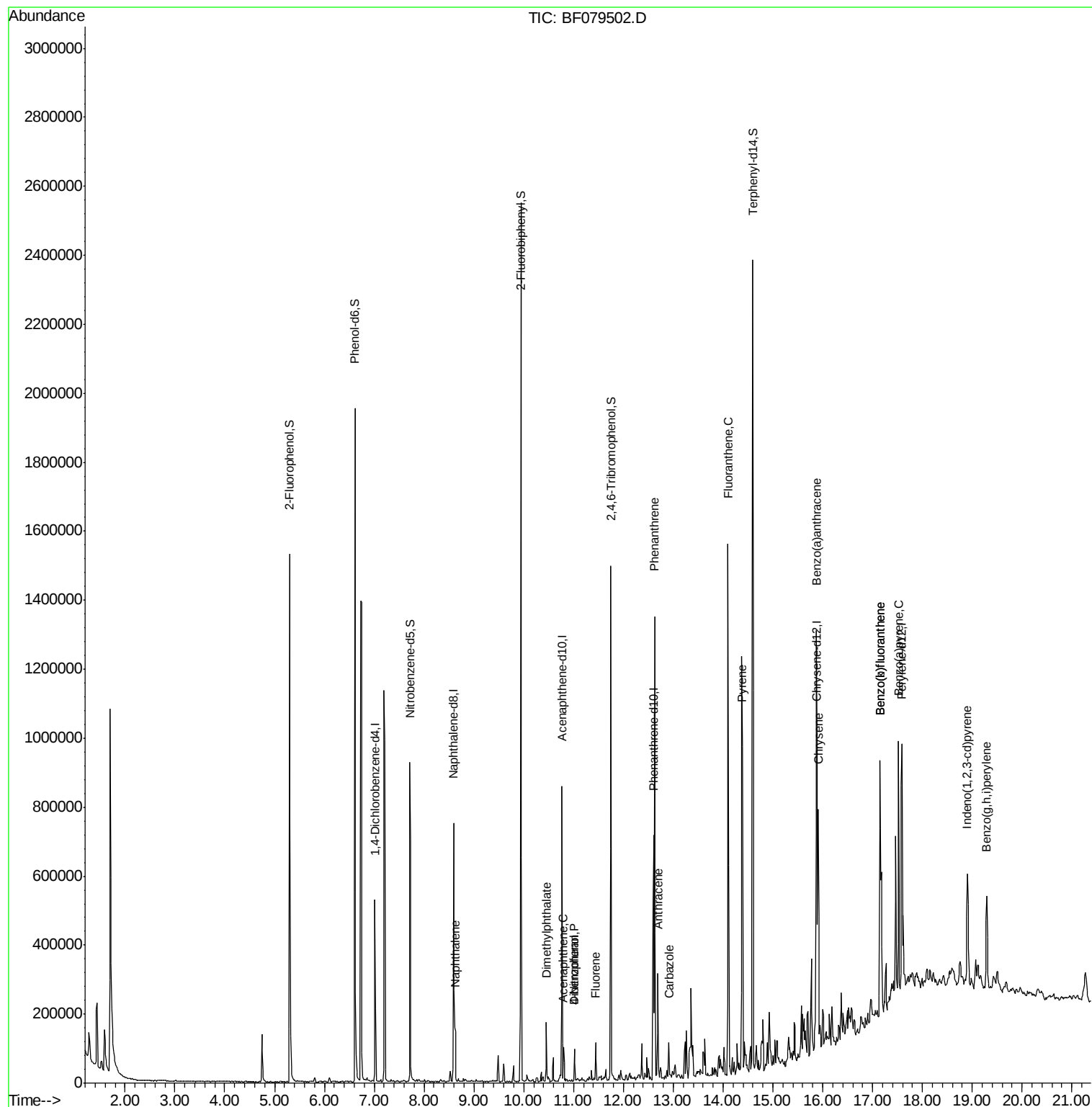
Target Compounds				Qvalue		
9) Benzaldehyde	6.48	77	268	Below Cal	#	80
31) Naphthalene	8.63	128	101497	5.86	ng	99
49) Dimethylphthalate	10.46	163	72860	5.45	ng	99
51) Acenaphthene	10.80	154	27032	2.55	ng	98
54) Dibenzofuran	11.02	168	42763	2.73	ng	99
55) 4-Nitrophenol	11.02	139	16210	8.42	ng	# 13
57) Fluorene	11.44	166	40564	3.14	ng	99
70) Phenanthrene	12.63	178	551374	28.97	ng	99
71) Anthracene	12.70	178	137128	7.10	ng	100
72) Carbazole	12.91	167	65226	3.51	ng	97
73) Di-n-butylphthalate	13.36	149	6792	Below Cal	#	81
74) Fluoranthene	14.10	202	707327	34.65	ng	95
77) Pyrene	14.39	202	623800	26.76	ng	100
80) Benzo(a)anthracene	15.87	228	374822	17.31	ng	98
82) Chrysene	15.91	228	333750	16.22	ng	98
85) Indeno(1,2,3-cd)pyrene	18.90	276	217541	8.22	ng	92
87) Benzo(b)fluoranthene	17.15	252	638854	28.51	ng	98
88) Benzo(k)fluoranthene	17.15	252	638854	31.88	ng	# 96
89) Benzo(a)pyrene	17.52	252	350706	16.63	ng	97
91) Benzo(g,h,i)perylene	19.29	276	215387	8.54	ng	97

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

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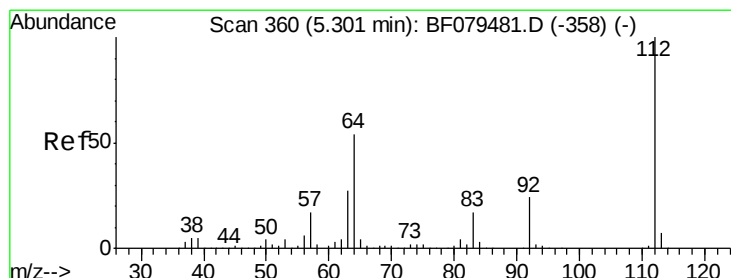
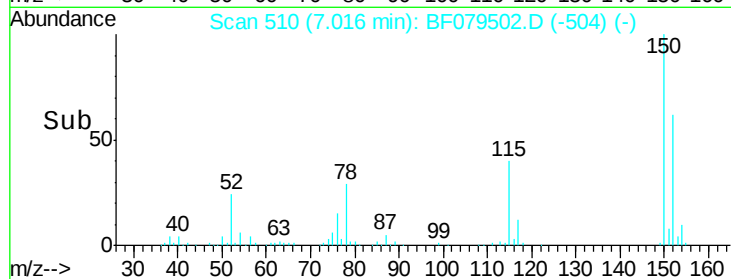
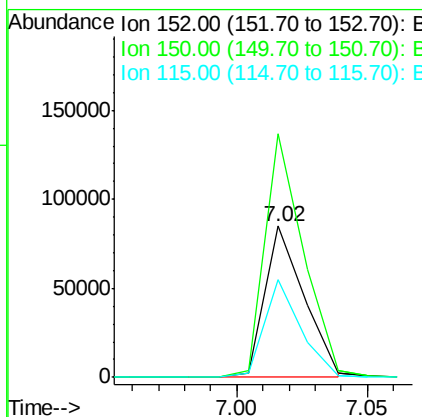
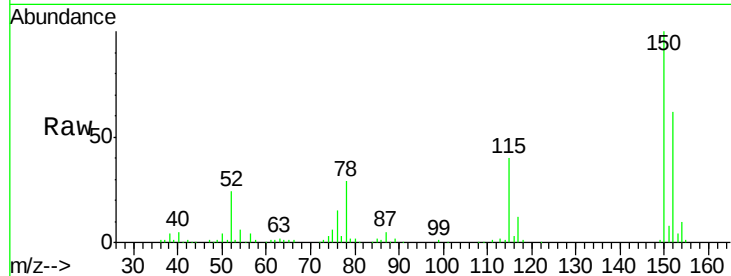




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.02 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: BF079502.D
 Acq: 27 May 2015 4:46

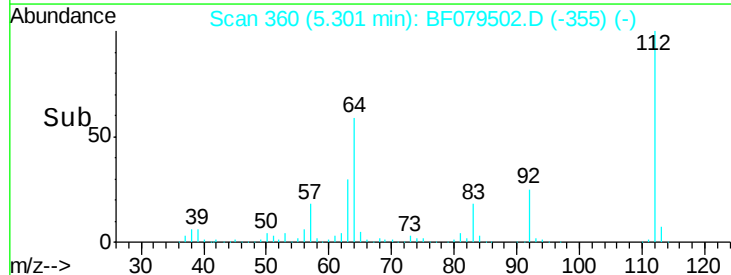
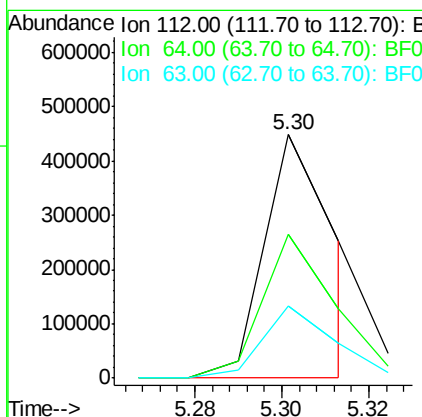
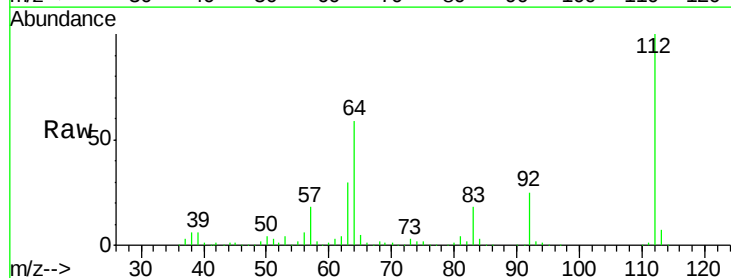
Instrument :
 BNA_F
 ClientSampleId :
 SW-023

Tgt Ion:152 Resp: 89082
 Ion Ratio Lower Upper
 152 100
 150 160.9 124.0 186.0
 115 64.9 49.6 74.4



#5
 2-Fluorophenol
 Concen: 98.14 ng
 RT: 5.30 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: BF079502.D
 Acq: 27 May 2015 4:46

Tgt Ion:112 Resp: 504064
 Ion Ratio Lower Upper
 112 100
 64 59.0 43.5 65.3
 63 29.7 21.8 32.8





#7

Phenol-d6

Concen: 110.86 ng

RT: 6.62 min Scan# 475

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

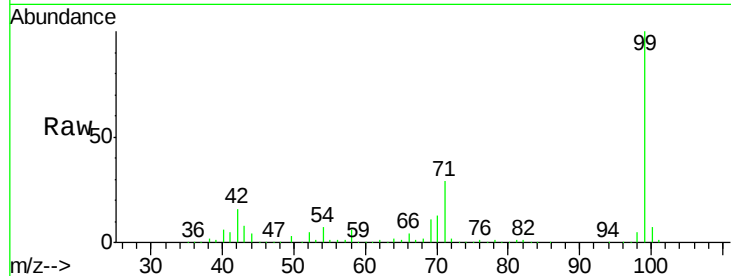
Tgt Ion: 99 Resp: 725746

Ion Ratio Lower Upper

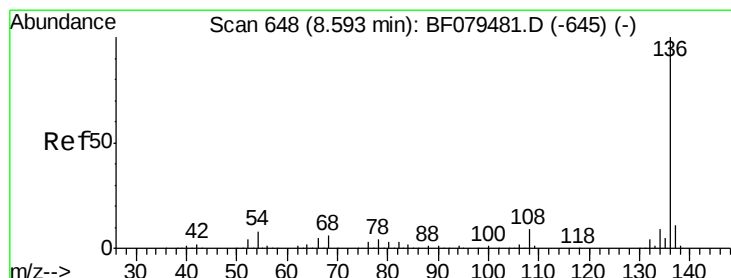
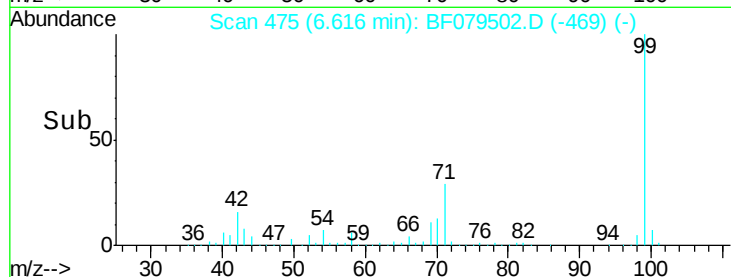
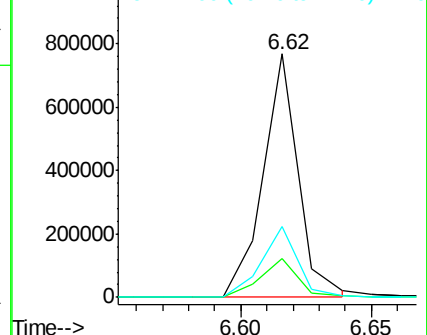
99 100

42 15.7 11.9 17.9

71 29.3 22.1 33.1



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.59 min Scan# 648

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Tgt Ion: 136 Resp: 361139

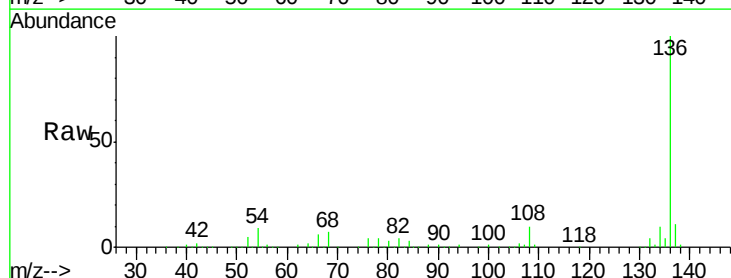
Ion Ratio Lower Upper

136 100

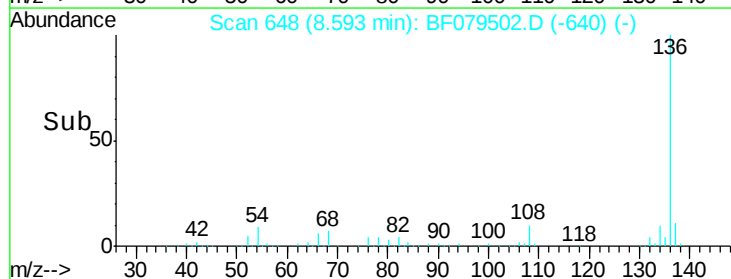
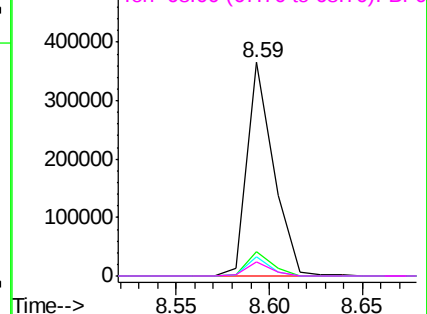
137 11.3 8.5 12.7

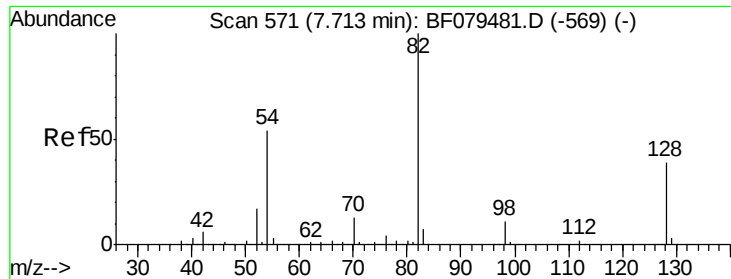
54 9.0 6.6 9.8

68 6.6 4.7 7.1



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

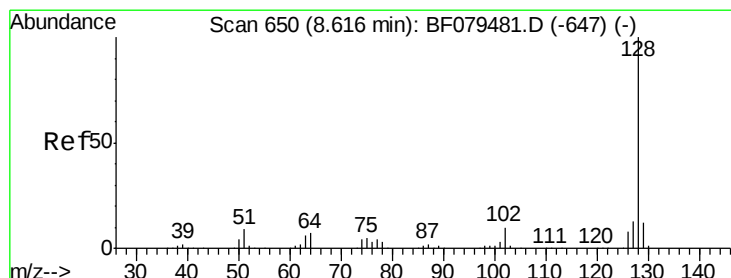
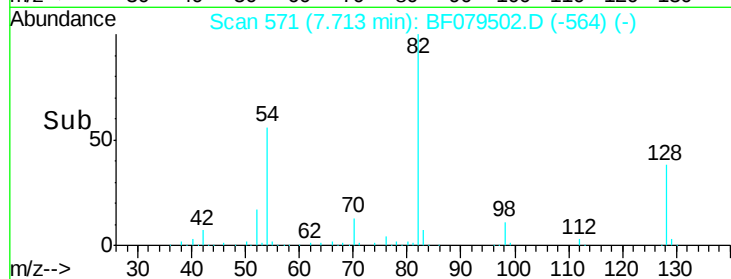
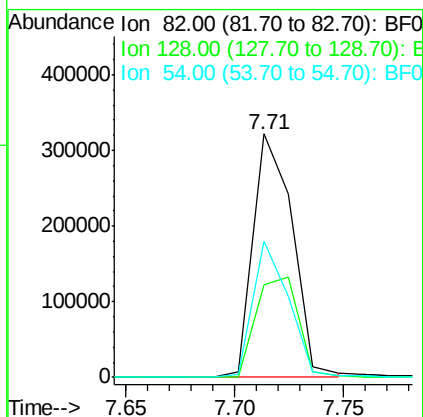
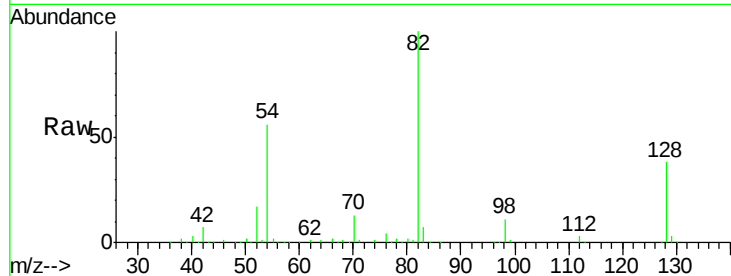




#23
 Nitrobenzene-d5
 Concen: 64.79 ng
 RT: 7.71 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: BF079502.D
 Acq: 27 May 2015 4:46

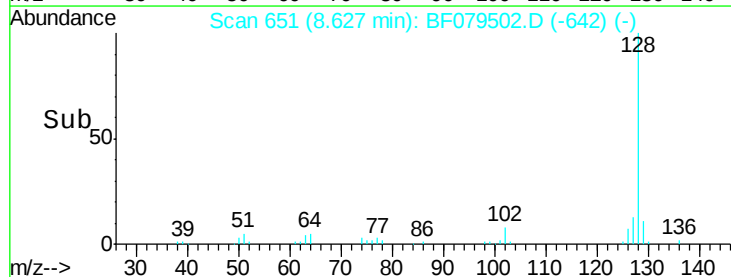
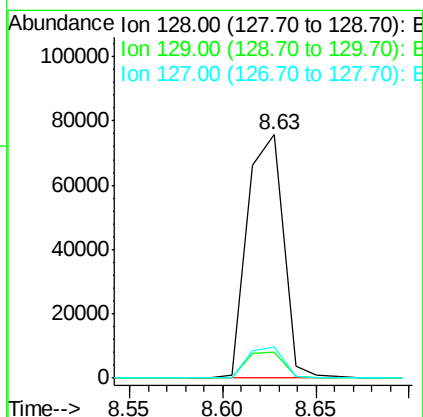
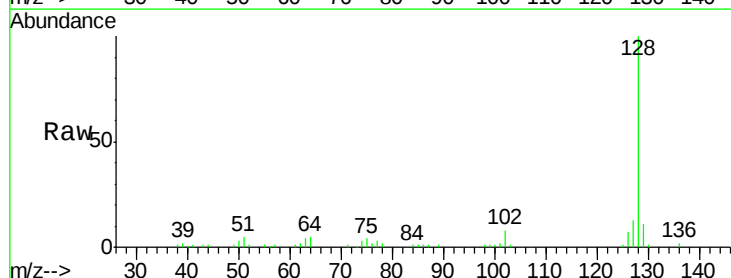
Instrument :
 BNA_F
 ClientSampleId :
 SW-023

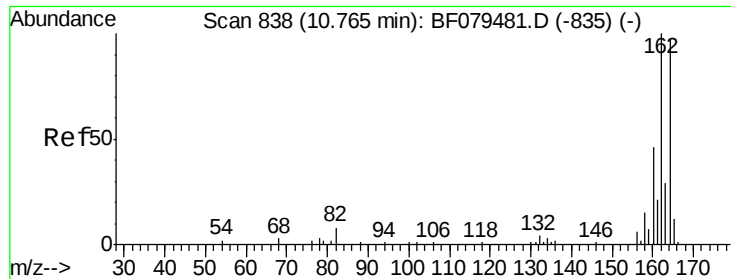
Tgt Ion: 82 Resp: 404780
 Ion Ratio Lower Upper
 82 100
 128 37.9 30.8 46.2
 54 55.7 42.8 64.2



#31
 Naphthalene
 Concen: 5.86 ng
 RT: 8.63 min Scan# 651
 Delta R.T. 0.01 min
 Lab File: BF079502.D
 Acq: 27 May 2015 4:46

Tgt Ion: 128 Resp: 101497
 Ion Ratio Lower Upper
 128 100
 129 10.9 9.3 13.9
 127 13.0 10.6 15.8

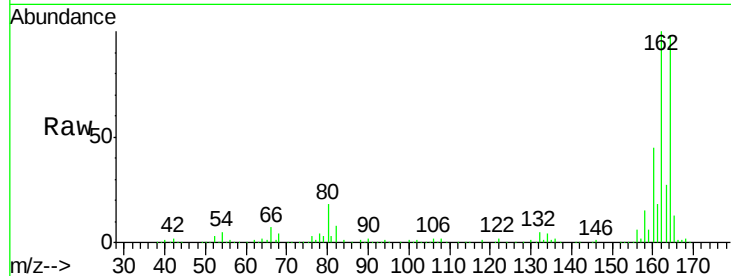




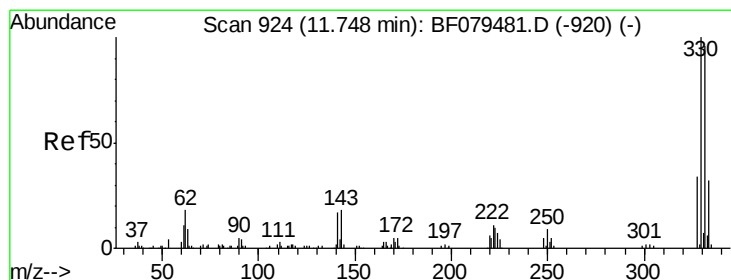
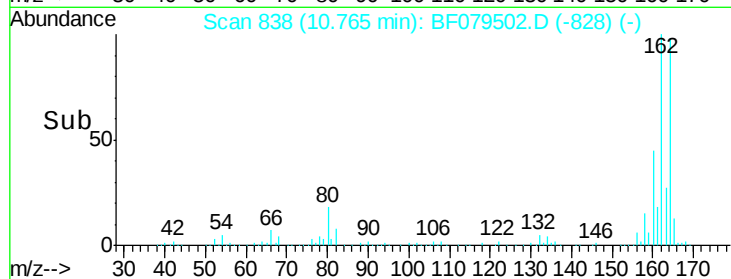
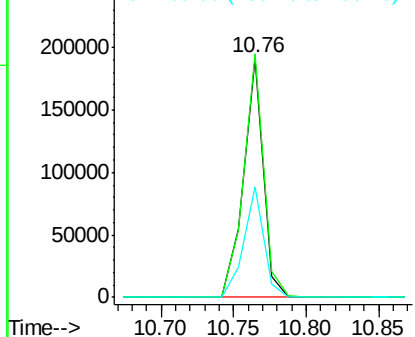
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.76 min Scan# 838
 Delta R.T. 0.00 min
 Lab File: BF079502.D
 Acq: 27 May 2015 4:46

Instrument :
 BNA_F
 ClientSampled :
 SW-023

Tgt Ion:164 Resp: 181291
 Ion Ratio Lower Upper
 164 100
 162 101.9 82.6 124.0
 160 46.0 37.7 56.5

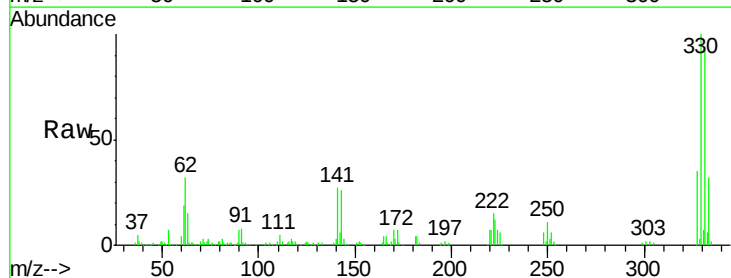


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

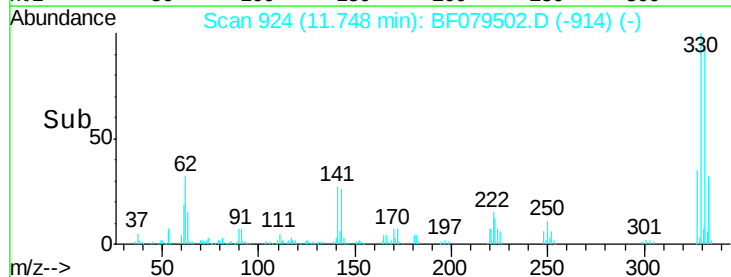
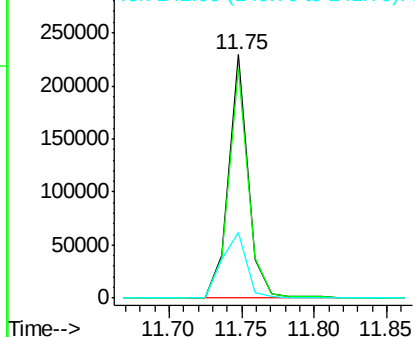


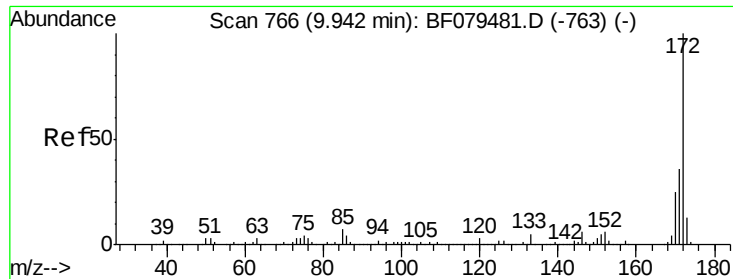
#41
 2,4,6-Tribromophenol
 Concen: 108.46 ng
 RT: 11.75 min Scan# 924
 Delta R.T. 0.00 min
 Lab File: BF079502.D
 Acq: 27 May 2015 4:46

Tgt Ion:330 Resp: 215964
 Ion Ratio Lower Upper
 330 100
 332 95.6 0.0 0.0#
 141 34.0 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

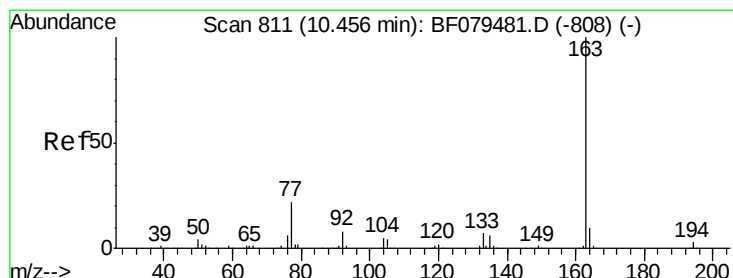
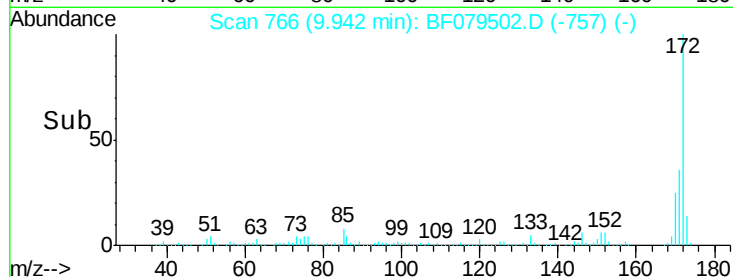
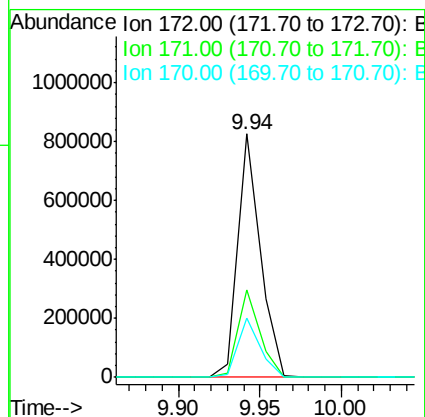
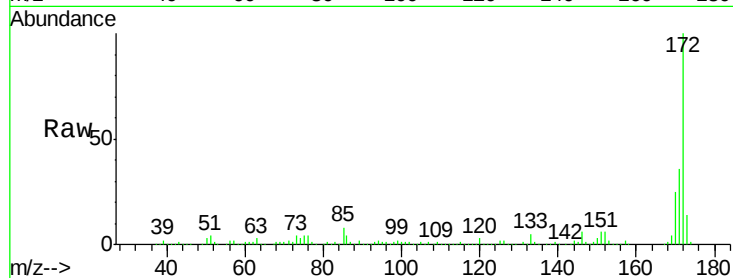




#44
 2-Fluorobiphenyl
 Concen: 62.03 ng
 RT: 9.94 min Scan# 766
 Delta R.T. 0.00 min
 Lab File: BF079502.D
 Acq: 27 May 2015 4:46

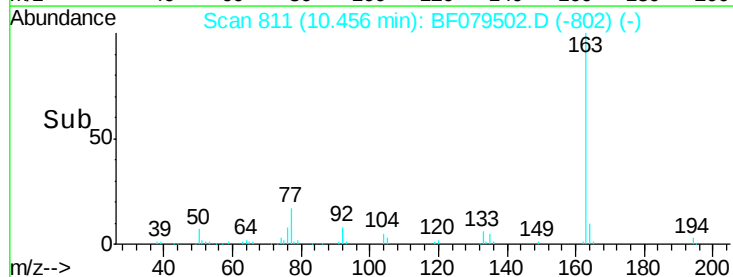
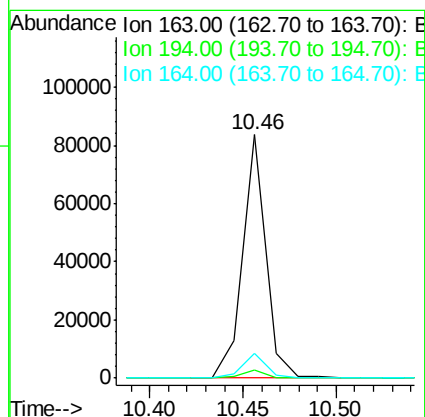
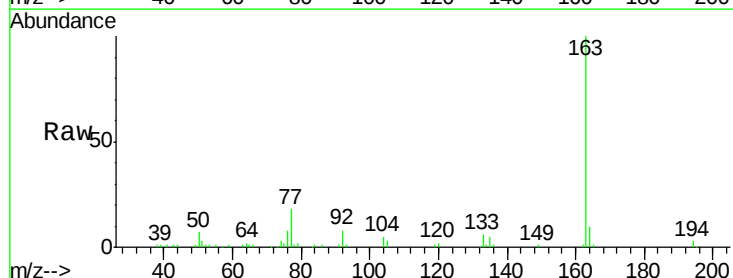
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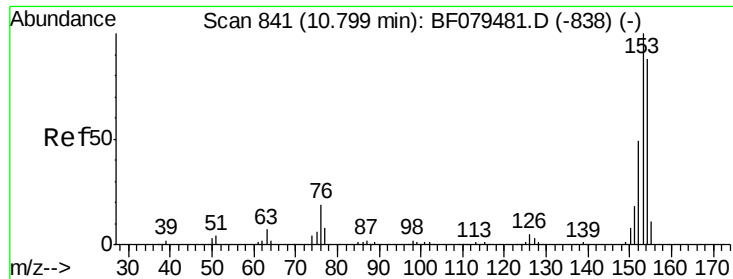
Tgt Ion:172 Resp: 788215
 Ion Ratio Lower Upper
 172 100
 171 35.8 28.5 42.7
 170 24.6 19.7 29.5



#49
 Dimethylphthalate
 Concen: 5.45 ng
 RT: 10.46 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: BF079502.D
 Acq: 27 May 2015 4:46

Tgt Ion:163 Resp: 72860
 Ion Ratio Lower Upper
 163 100
 194 3.1 2.4 3.6
 164 9.9 8.2 12.4





#51

Acenaphthene

Concen: 2.55 ng

RT: 10.80 min Scan# 841

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

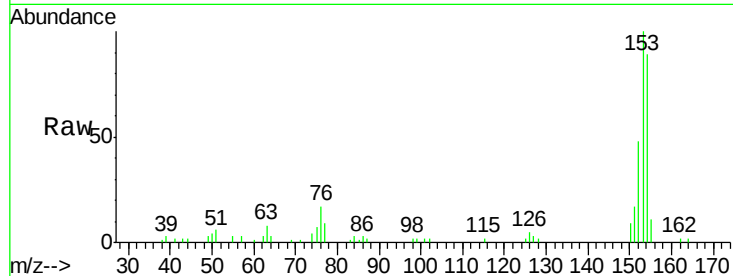
Tgt Ion:154 Resp: 27032

Ion Ratio Lower Upper

154 100

153 111.9 91.1 136.7

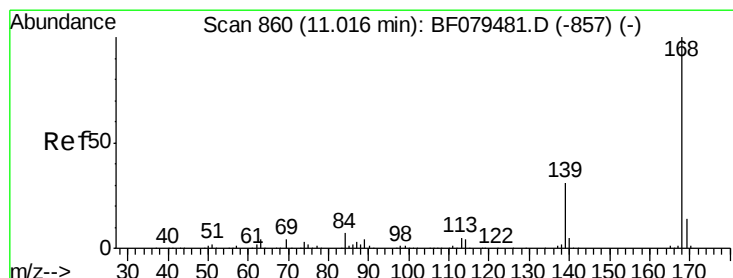
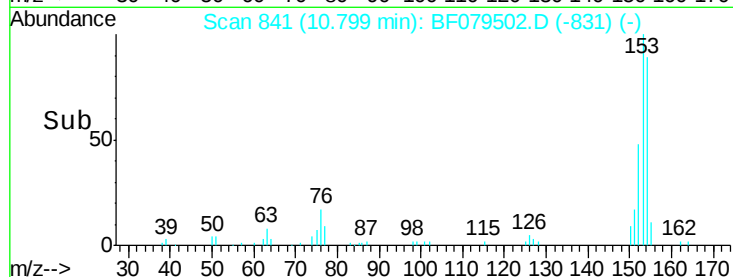
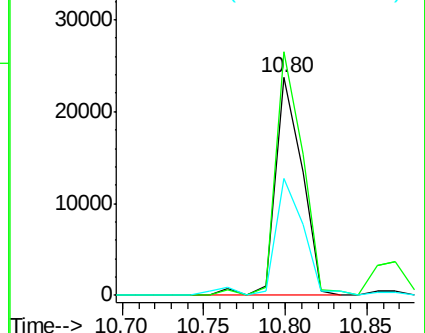
152 53.8 44.6 66.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.73 ng

RT: 11.02 min Scan# 860

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

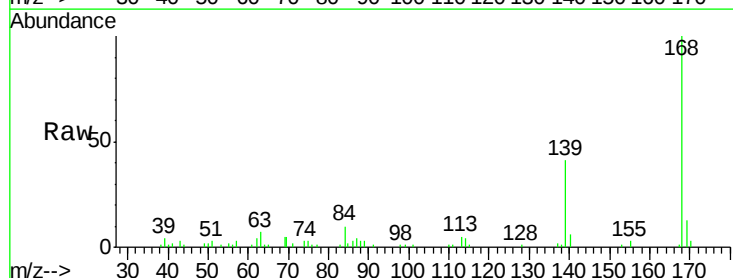
Tgt Ion:168 Resp: 42763

Ion Ratio Lower Upper

168 100

139 40.6 32.9 49.3

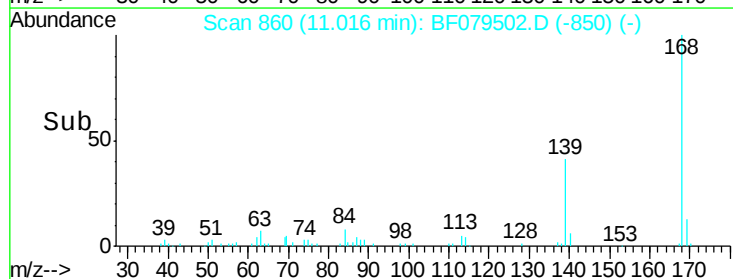
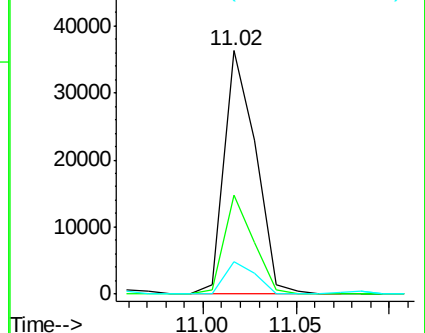
169 13.4 11.1 16.7

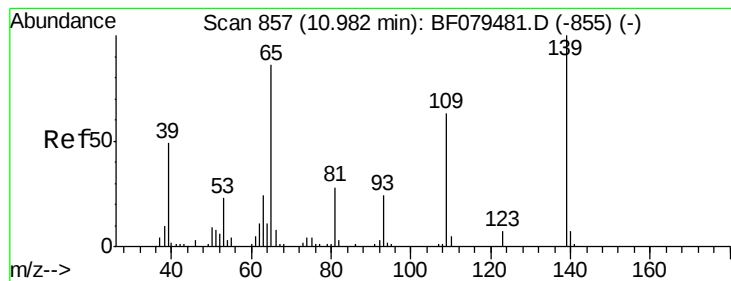


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 8.42 ng

RT: 11.02 min Scan# 860

Delta R.T. 0.03 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

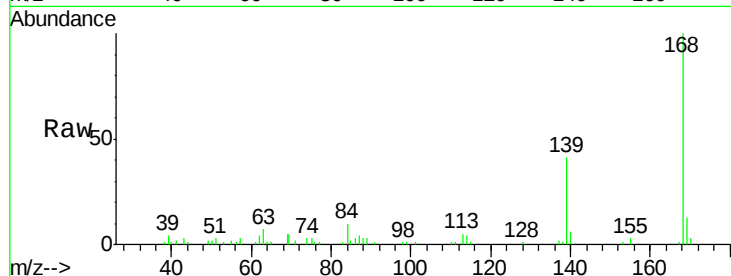
Tgt Ion:139 Resp: 16210

Ion Ratio Lower Upper

139 100

109 0.0 42.8 82.8#

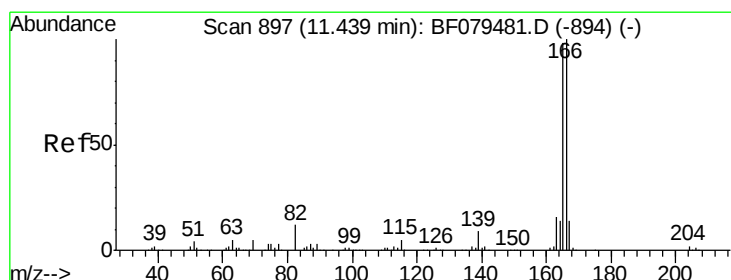
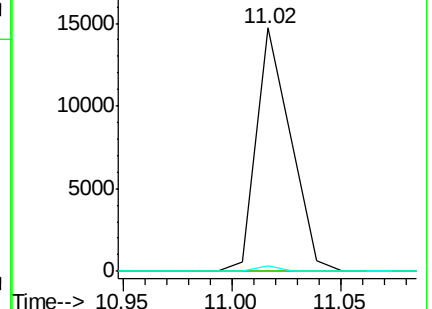
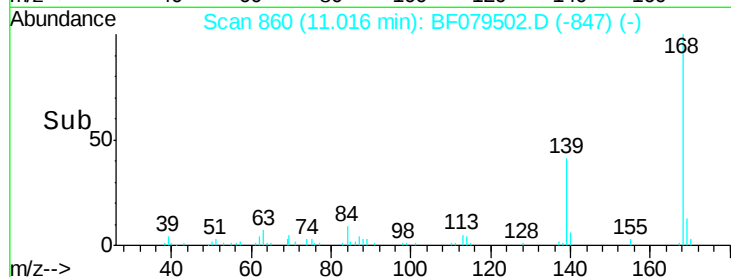
65 2.3 66.3 106.3#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#57

Fluorene

Concen: 3.14 ng

RT: 11.44 min Scan# 897

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

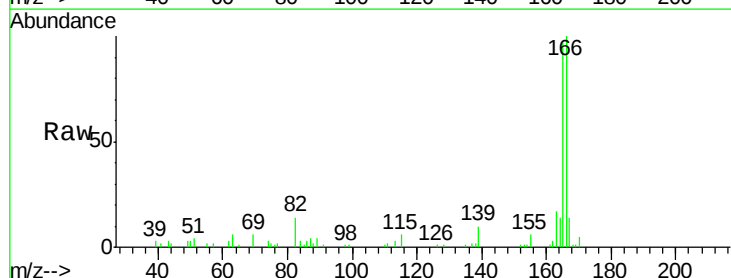
Tgt Ion:166 Resp: 40564

Ion Ratio Lower Upper

166 100

165 97.2 78.6 117.8

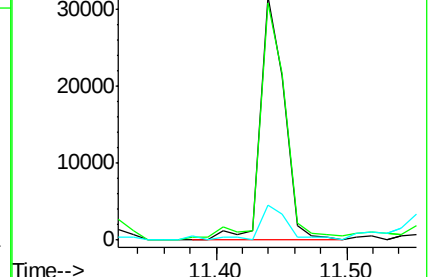
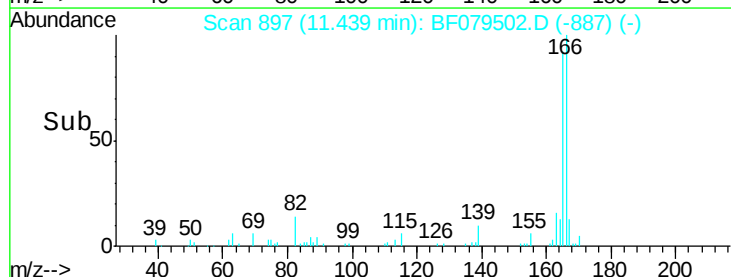
167 14.3 10.8 16.2

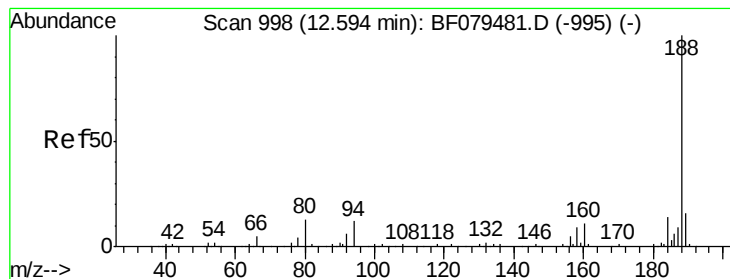


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.61 min Scan# 999

Delta R.T. 0.01 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

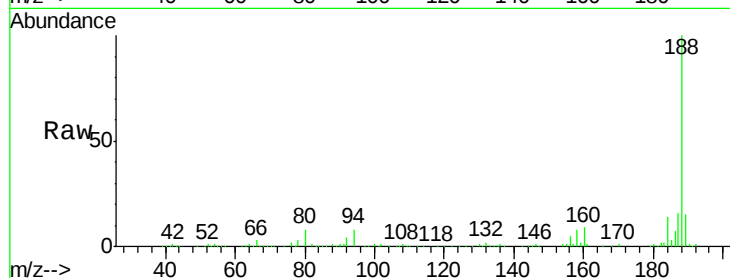
Tgt Ion:188 Resp: 346987

Ion Ratio Lower Upper

188 100

94 7.8 9.8 14.6#

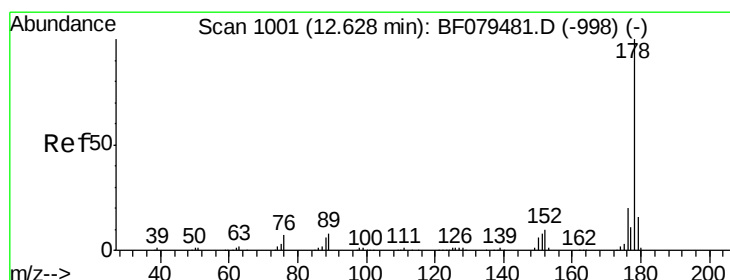
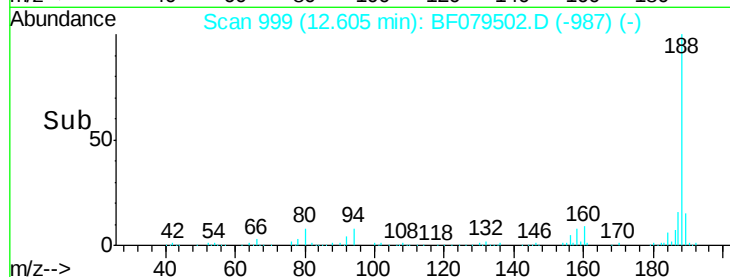
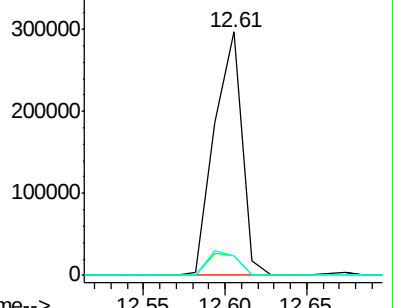
80 8.1 10.5 15.7#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 28.97 ng

RT: 12.63 min Scan# 1001

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

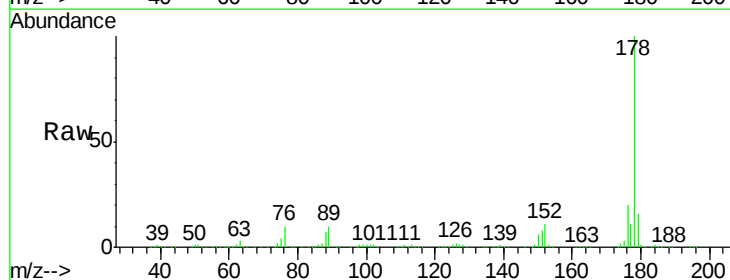
Tgt Ion:178 Resp: 551374

Ion Ratio Lower Upper

178 100

176 20.1 15.7 23.5

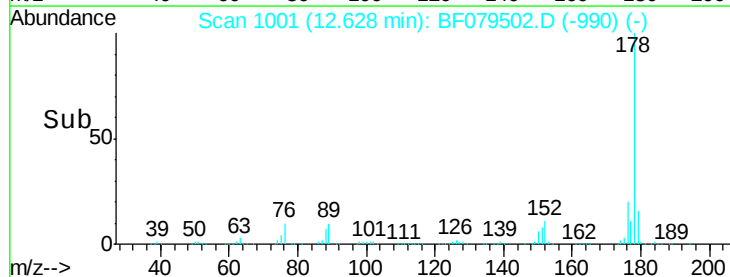
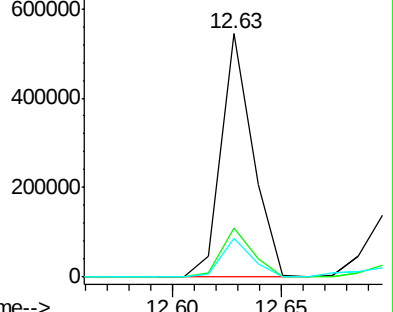
179 15.9 12.4 18.6

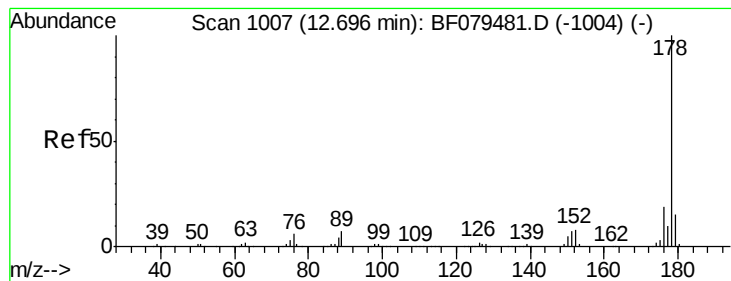


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 7.10 ng

RT: 12.70 min Scan# 1007

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

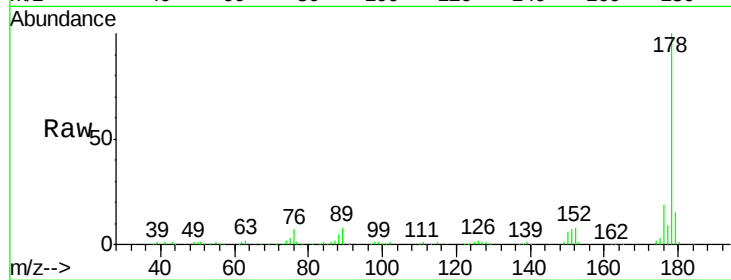
Tgt Ion:178 Resp: 137128

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

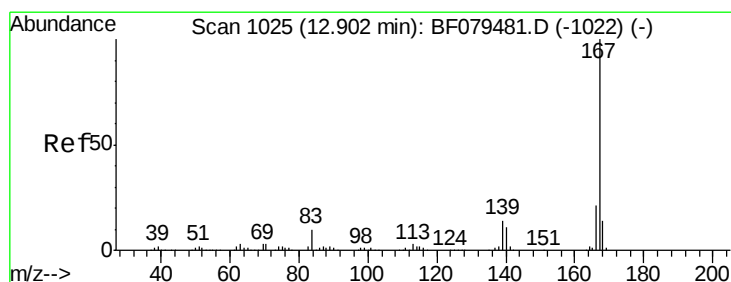
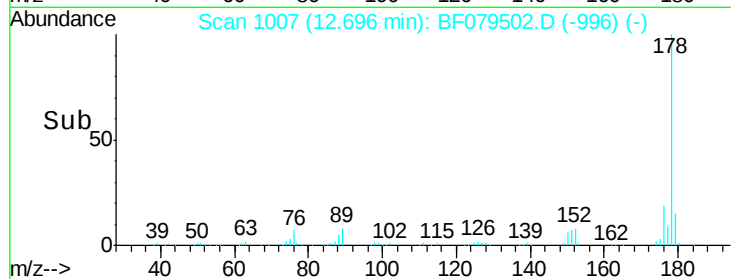
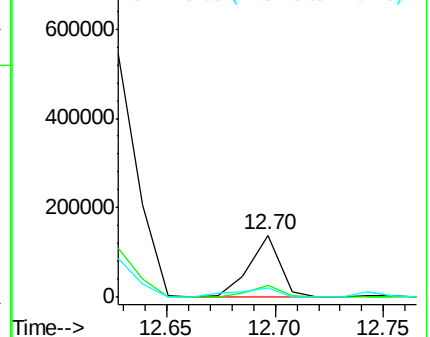
179 15.4 12.2 18.4



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



#72

Carbazole

Concen: 3.51 ng

RT: 12.91 min Scan# 1026

Delta R.T. 0.01 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

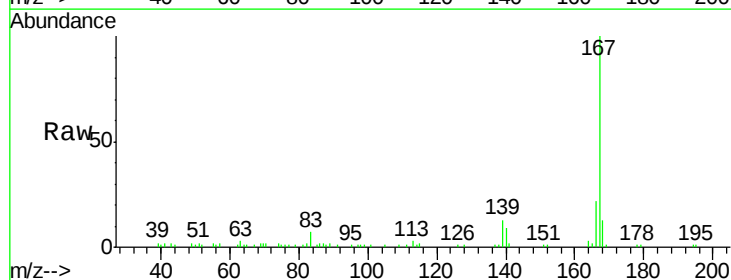
Tgt Ion:167 Resp: 65226

Ion Ratio Lower Upper

167 100

166 22.4 17.0 25.4

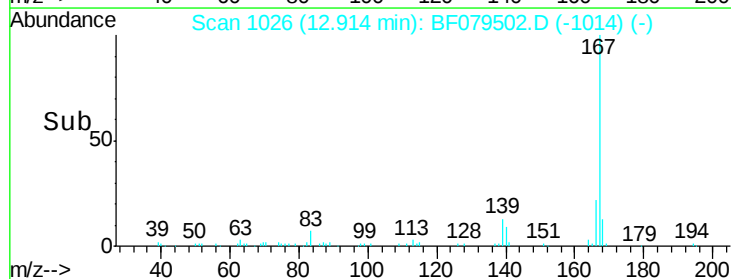
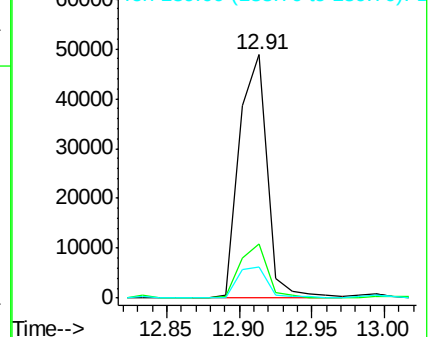
139 12.8 11.2 16.8

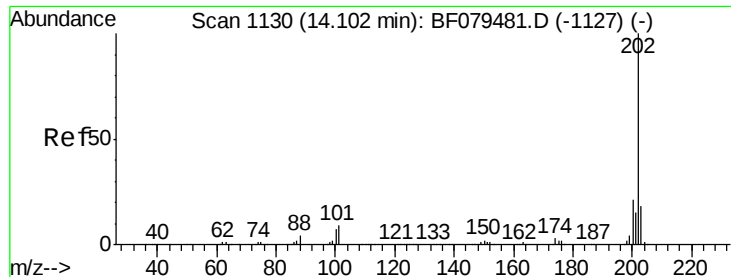


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 34.65 ng

RT: 14.10 min Scan# 1130

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

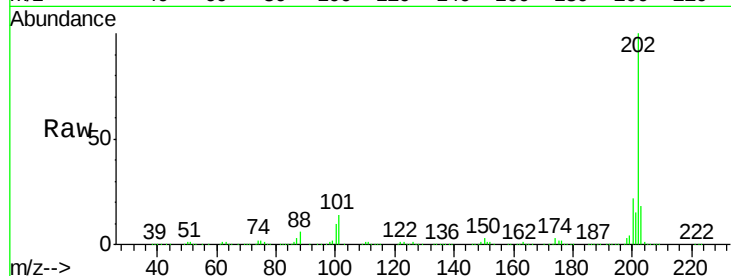
Tgt Ion: 202 Resp: 707327

Ion Ratio Lower Upper

202 100

101 13.9 0.0 29.3

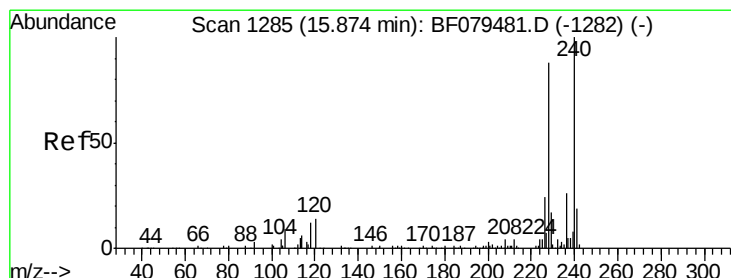
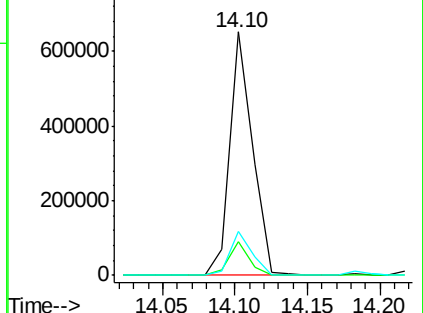
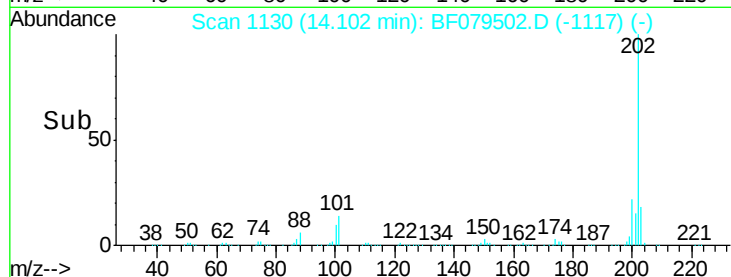
203 18.1 0.0 37.6



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: 15.89 min Scan# 1286

Delta R.T. 0.01 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

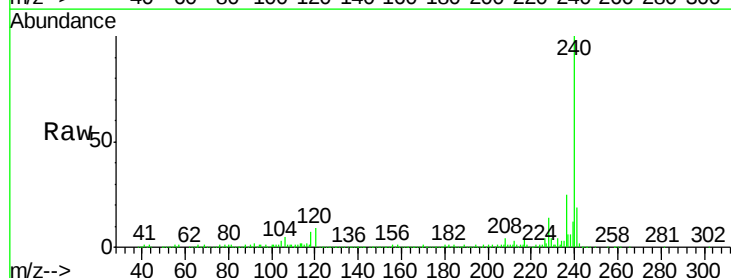
Tgt Ion: 240 Resp: 376316

Ion Ratio Lower Upper

240 100

120 8.6 10.8 16.2#

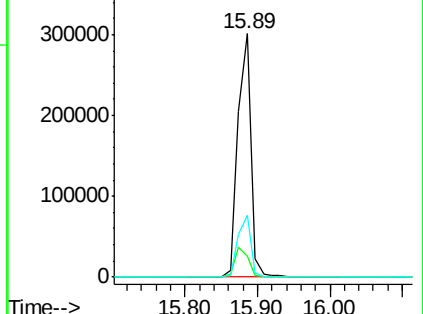
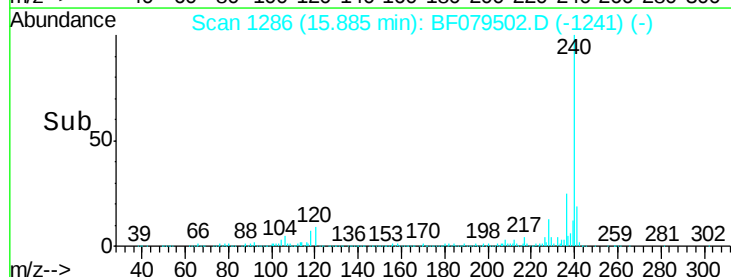
236 25.4 21.0 31.6

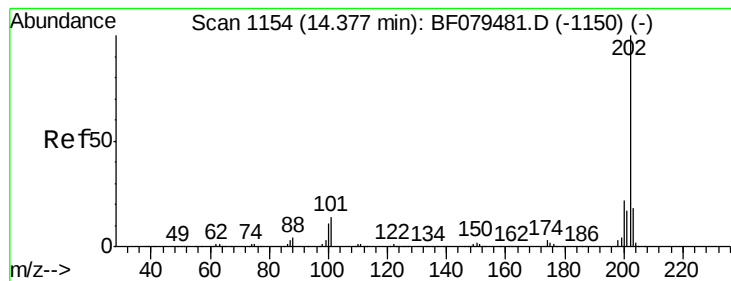


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 26.76 ng

RT: 14.39 min Scan# 1155

Delta R.T. 0.01 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

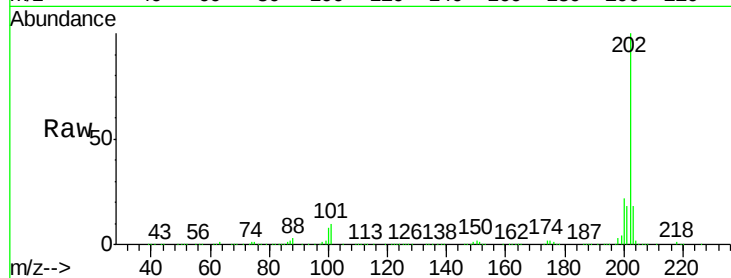
Tgt Ion: 202 Resp: 623800

Ion Ratio Lower Upper

202 100

200 21.7 17.5 26.3

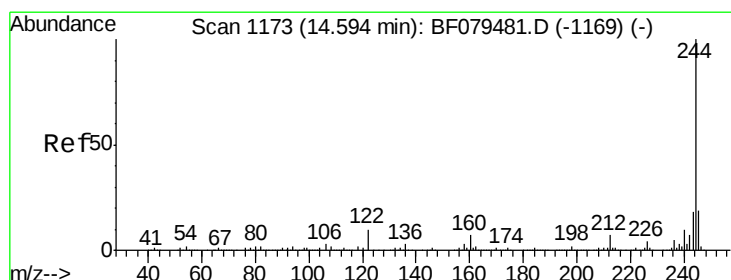
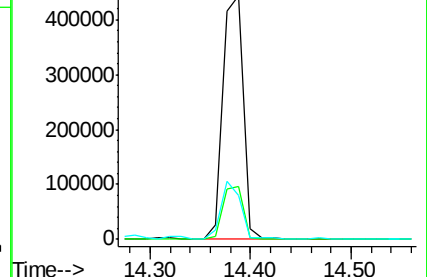
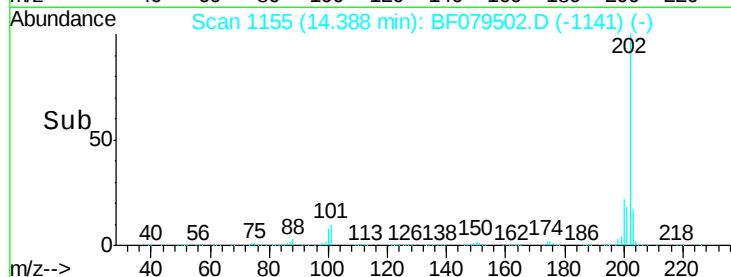
203 18.0 14.4 21.6



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: 56.56 ng

RT: 14.59 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

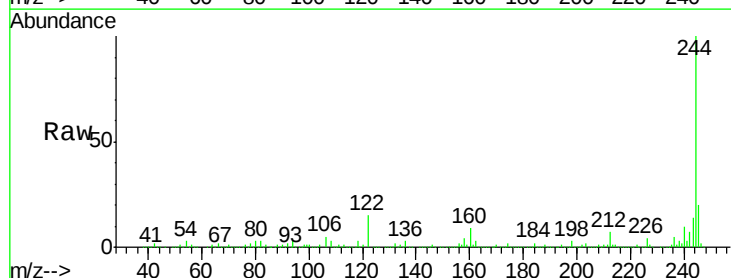
Tgt Ion: 244 Resp: 906908

Ion Ratio Lower Upper

244 100

212 7.2 5.2 7.8

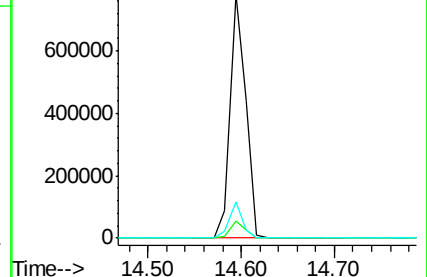
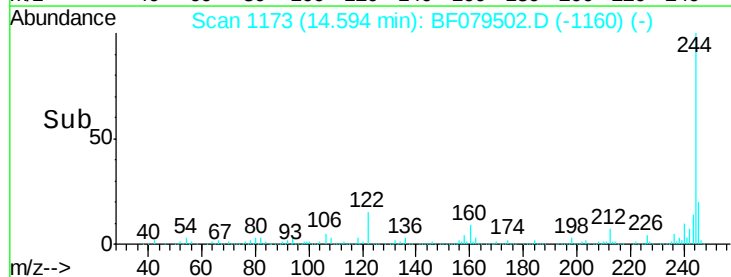
122 14.8 8.0 12.0#

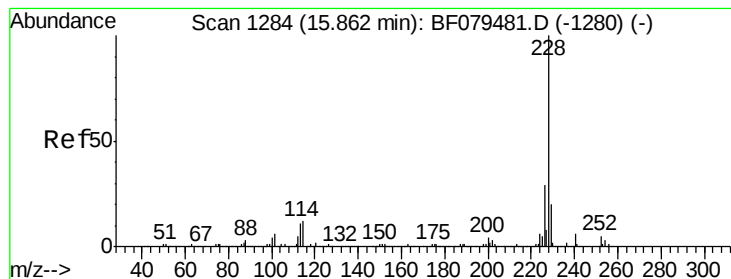


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 17.31 ng

RT: 15.87 min Scan# 1285

Delta R.T. 0.01 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

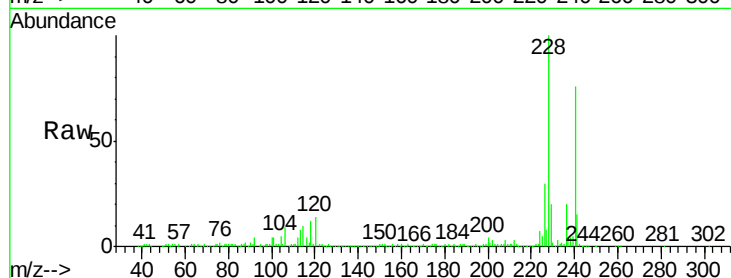
Tgt Ion:228 Resp: 374822

Ion Ratio Lower Upper

228 100

226 29.9 22.8 34.2

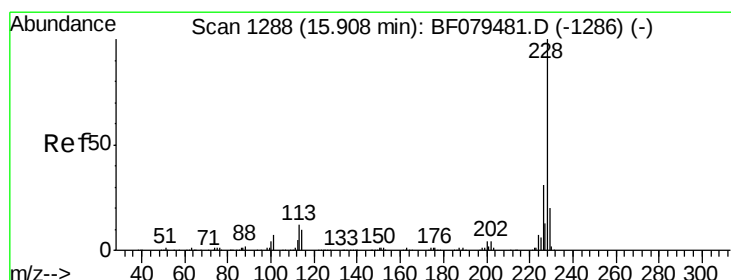
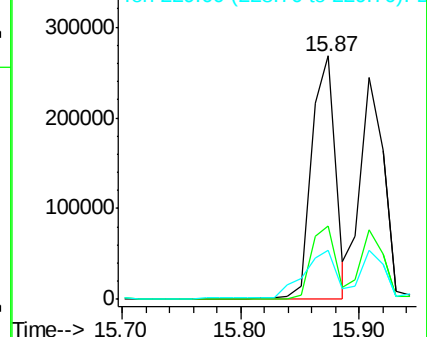
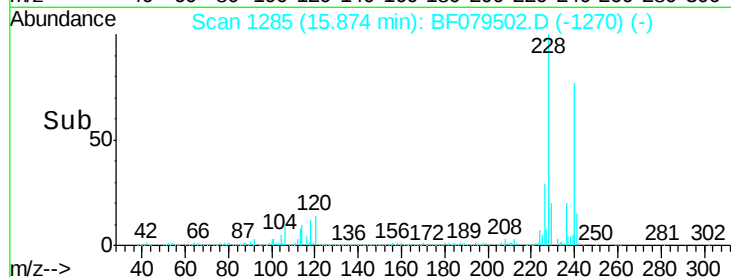
229 20.3 15.9 23.9



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: 16.22 ng

RT: 15.91 min Scan# 1288

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

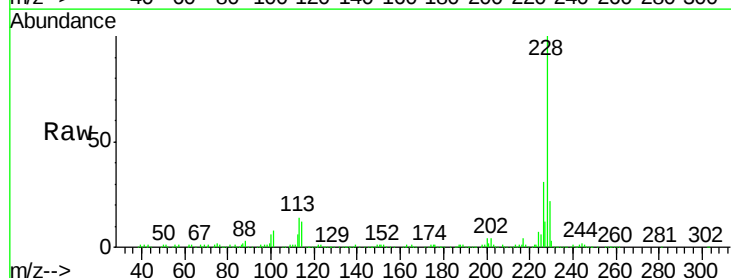
Tgt Ion:228 Resp: 333750

Ion Ratio Lower Upper

228 100

226 31.1 25.0 37.4

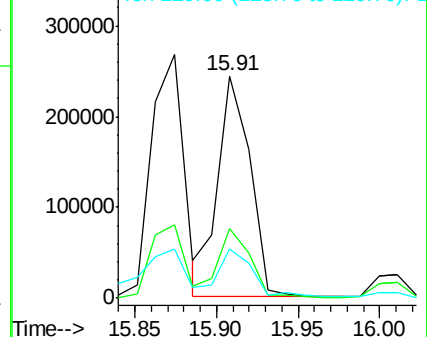
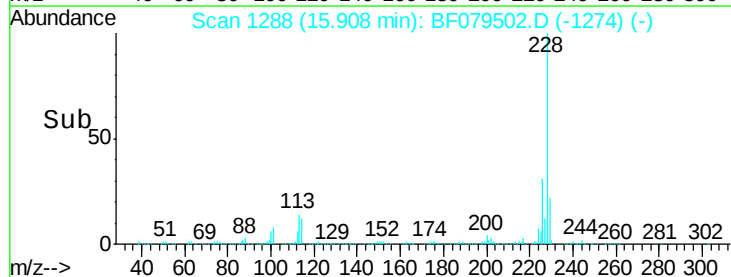
229 22.1 15.9 23.9

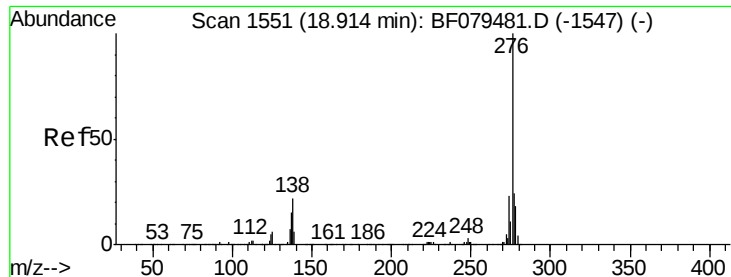


Abundance Ion 228.00 (227.70 to 228.70): E

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: 8.22 ng

RT: 18.90 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

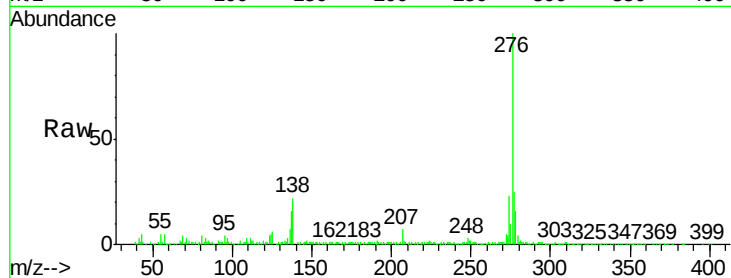
Tgt Ion:276 Resp: 217541

Ion Ratio Lower Upper

276 100

138 22.9 21.4 32.2

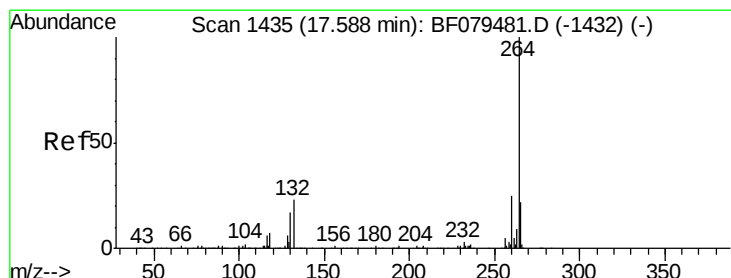
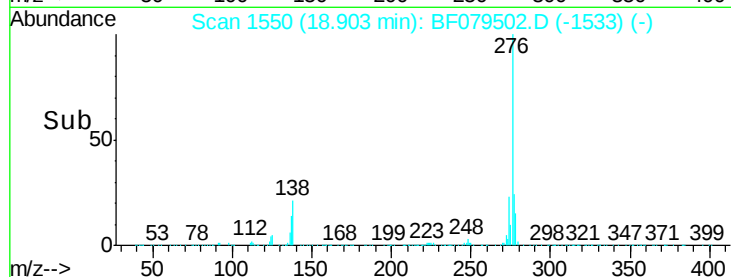
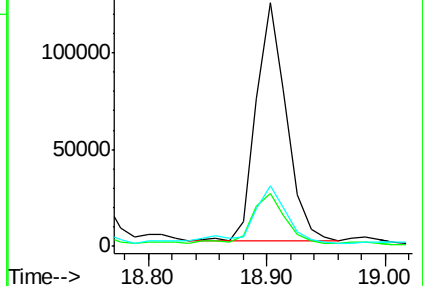
277 28.7 19.8 29.6



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: 17.59 min Scan# 1435

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

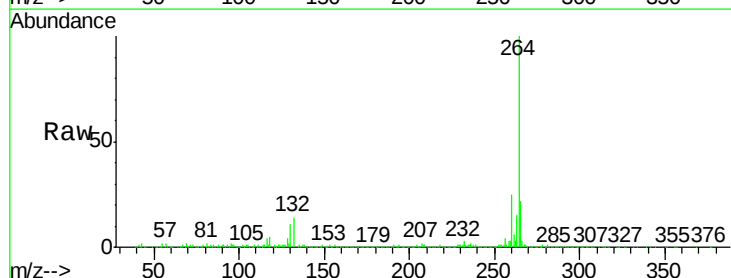
Tgt Ion:264 Resp: 392914

Ion Ratio Lower Upper

264 100

260 24.9 19.8 29.8

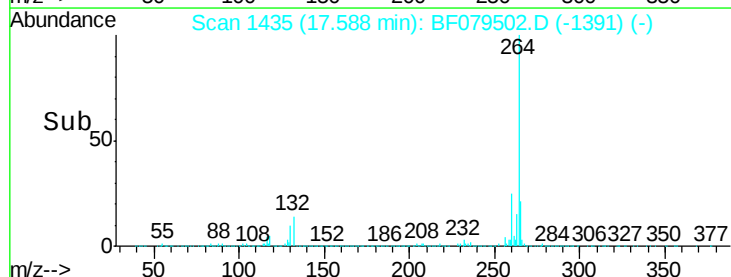
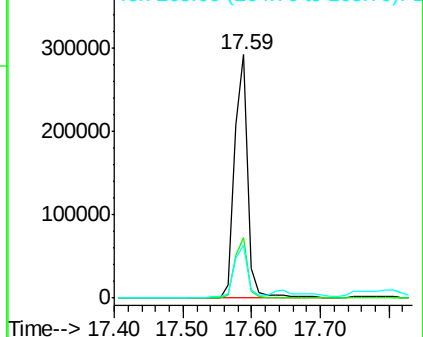
265 21.6 17.8 26.6

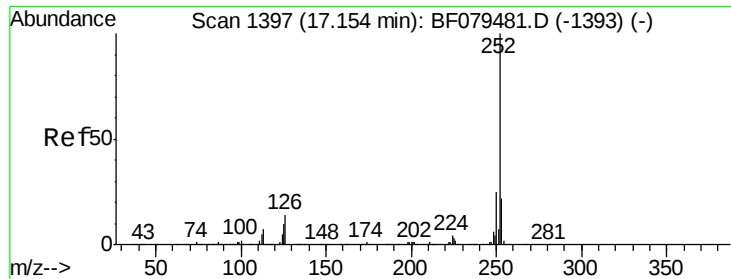


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 28.51 ng

RT: 17.15 min Scan# 1397

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

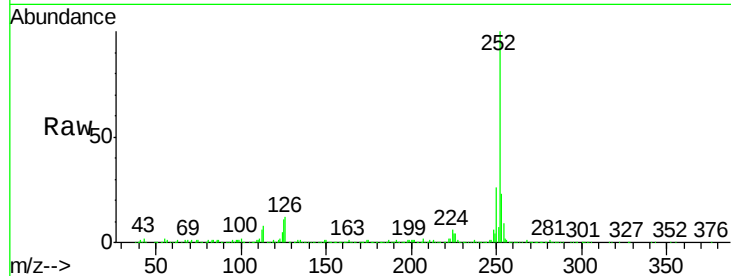
Tgt Ion:252 Resp: 638854

Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

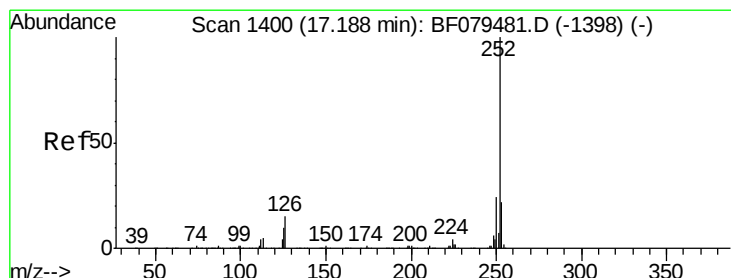
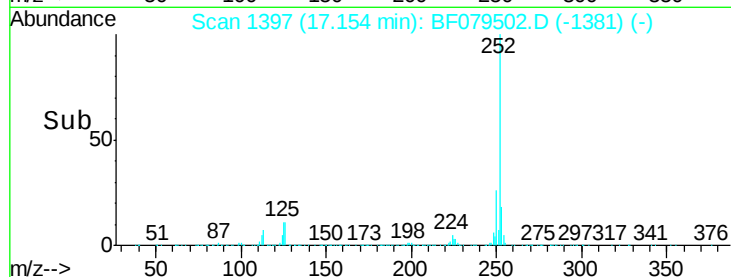
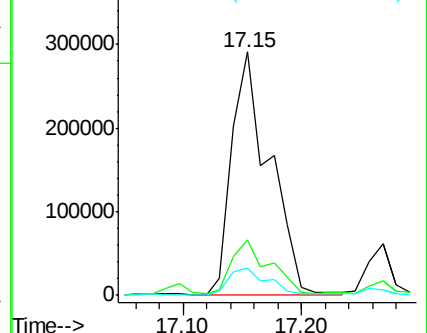
125 11.4 7.8 11.6



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



#88

Benzo(k)fluoranthene

Concen: 31.88 ng

RT: 17.15 min Scan# 1397

Delta R.T. -0.03 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

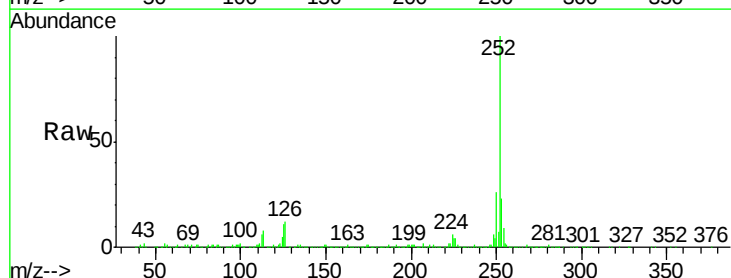
Tgt Ion:252 Resp: 638854

Ion Ratio Lower Upper

252 100

253 22.5 17.2 25.8

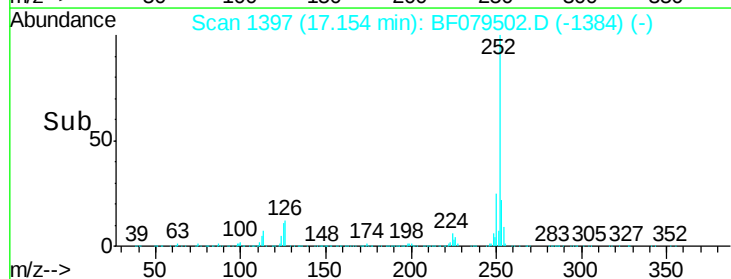
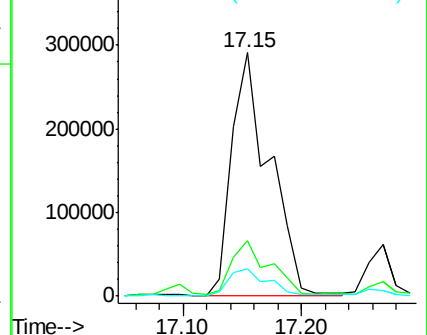
125 11.4 6.8 10.2#

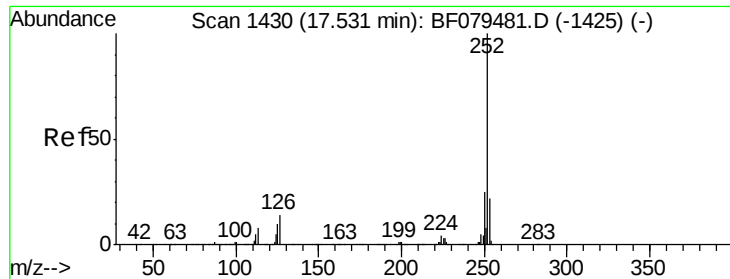


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 16.63 ng

RT: 17.52 min Scan# 1429

Delta R.T. -0.01 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

Instrument :

BNA_F

ClientSampleId :

SW-023

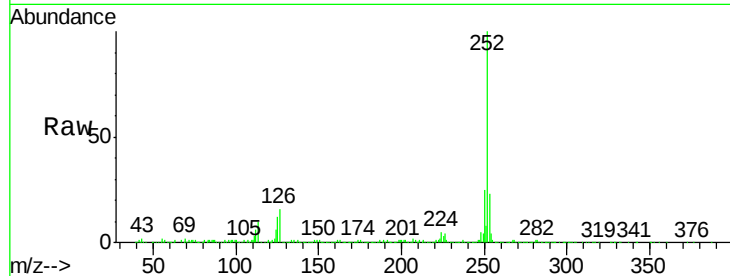
Tgt Ion:252 Resp: 350706

Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

125 11.9 7.9 11.9

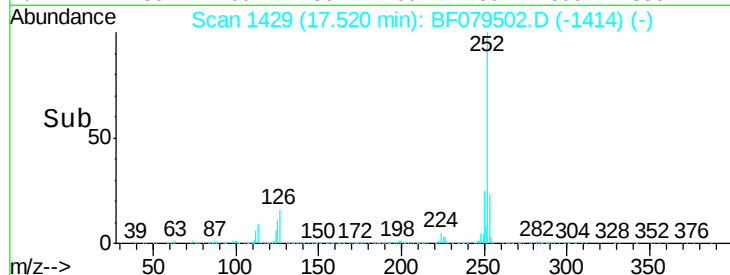


Abundance Ion 252.00 (251.70 to 252.70): E

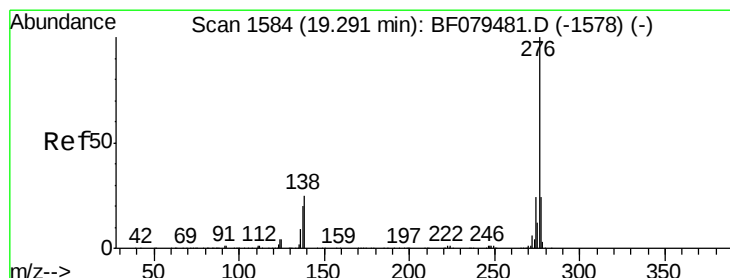
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time-->



Time-->



#91

Benzo(g,h,i)perylene

Concen: 8.54 ng

RT: 19.29 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF079502.D

Acq: 27 May 2015 4:46

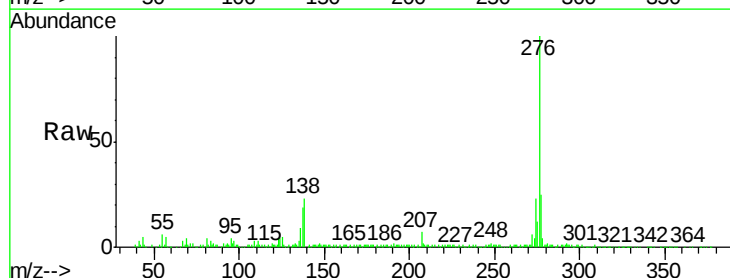
Tgt Ion:276 Resp: 215387

Ion Ratio Lower Upper

276 100

277 24.5 19.1 28.7

138 23.2 20.1 30.1

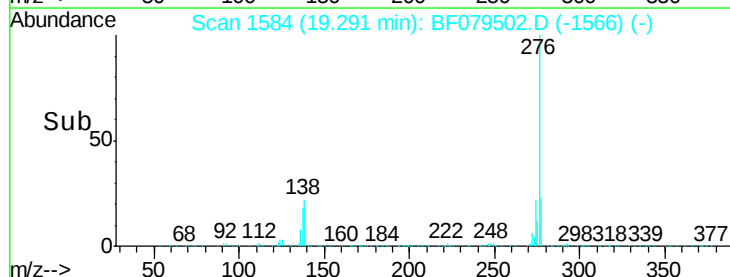


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

Time-->



Time-->