

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072617\
 Data File : BF097104.D
 Acq On : 27 Jul 2017 4:38
 Operator : SJ/JU
 Sample : I4397-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 27 08:22:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	84295	20.00	ng	0.00
21) Naphthalene-d8	7.78	136	321442	20.00	ng	0.00
38) Acenaphthene-d10	9.53	164	119565	20.00	ng	0.00
63) Phenanthrene-d10	11.00	188	192256	20.00	ng	0.00
75) Chrysene-d12	13.63	240	170640	20.00	ng	0.00
86) Perylene-d12	14.98	264	129747	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.10	112	689326	123.28	ng	0.00
7) Phenol-d6	6.16	99	727144	113.91	ng	0.00
23) Nitrobenzene-d5	7.06	82	386177	70.48	ng	-0.01
41) 2,4,6-Tribromophenol	10.32	330	106064	112.28	ng	0.00
44) 2-Fluorobiphenyl	8.86	172	625055	88.72	ng	-0.01
78) Terphenyl-d14	12.59	244	466149	55.70	ng	0.00

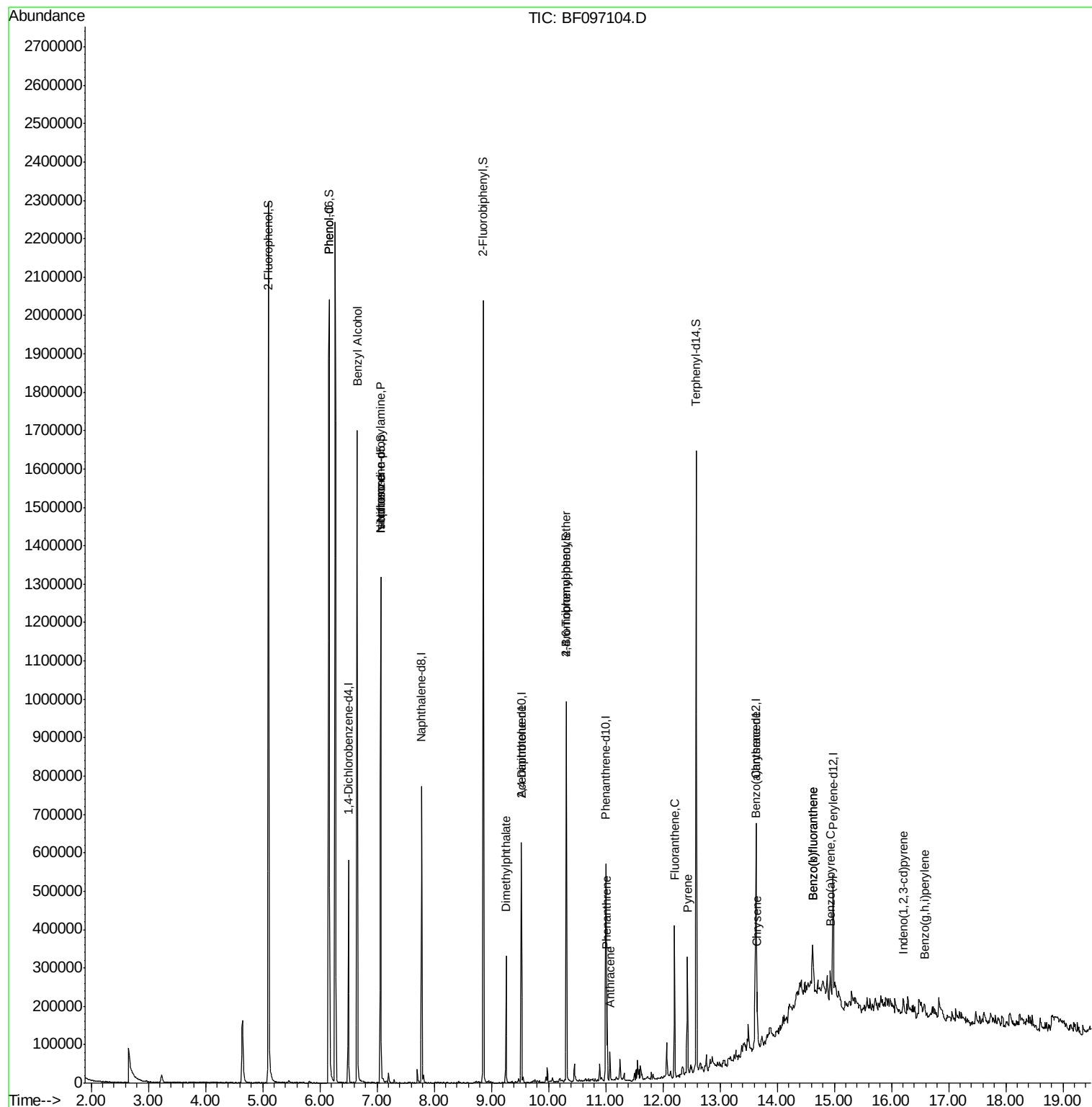
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.17	94	30411	4.016	ng	84
15) Benzyl Alcohol	6.65	79	8319	2.058	ng	# 40
19) n-Nitroso-di-n-propylamine	7.06	70	50693	12.064	ng	# 88
25) Isophorone	7.06	82	381269	35.531	ng	# 67
49) Dimethylphthalate	9.26	163	119981	13.214	ng	98
56) 2,4-Dinitrotoluene	9.53	165	15069	6.807	ng	# 32
66) 4-Bromophenyl-phenylether	10.31	248	6925	3.609	ng	# 1
70) Phenanthrene	11.02	178	79060	7.675	ng	98
71) Anthracene	11.07	178	24405	2.313	ng	96
74) Fluoranthene	12.20	202	148411	14.706	ng	98
77) Pyrene	12.43	202	120518	8.627	ng	97
80) Benzo(a)anthracene	13.62	228	58269	5.277	ng	97
82) Chrysene	13.65	228	46595	4.322	ng	95
85) Indeno(1,2,3-cd)pyrene	16.21	276	18690	2.022	ng	95
87) Benzo(b)fluoranthene	14.62	252	71623	9.183	ng	# 93
88) Benzo(k)fluoranthene	14.62	252	71623	9.637	ng	97
89) Benzo(a)pyrene	14.93	252	33814	4.737	ng	# 94
91) Benzo(a,h,i)perylene	16.57	276	18085	2.946	ng	92

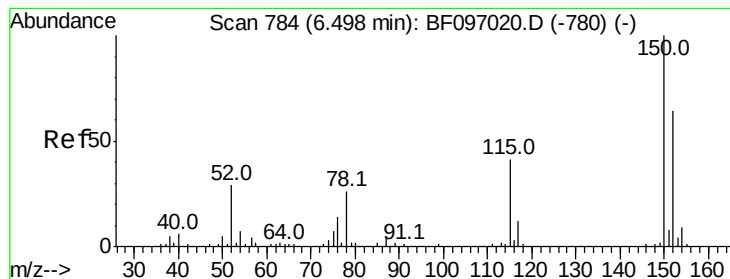
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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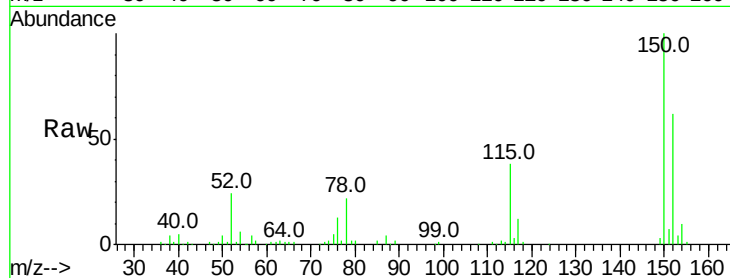


#1

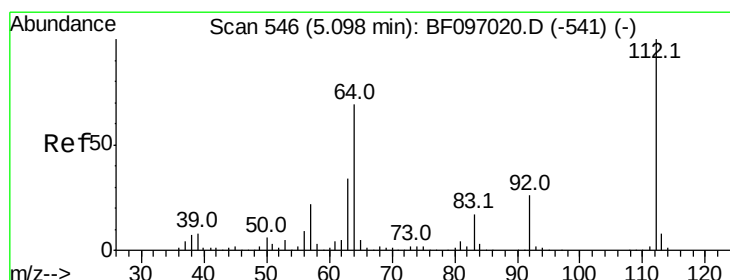
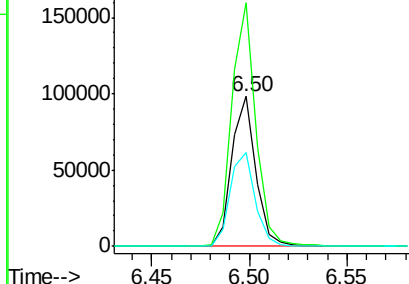
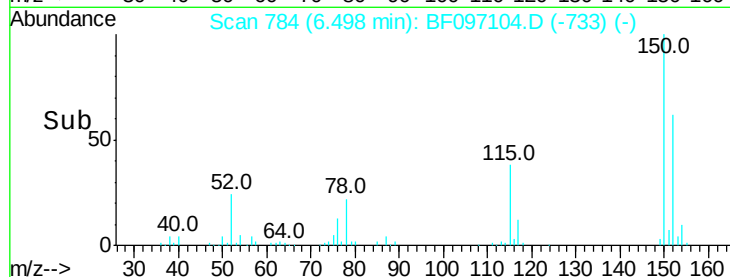
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.50 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF097104.D
Acq: 27 Jul 2017 4:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 84295
Ion Ratio Lower Upper
152 100
150 162.5 126.2 189.2
115 62.5 52.2 78.2



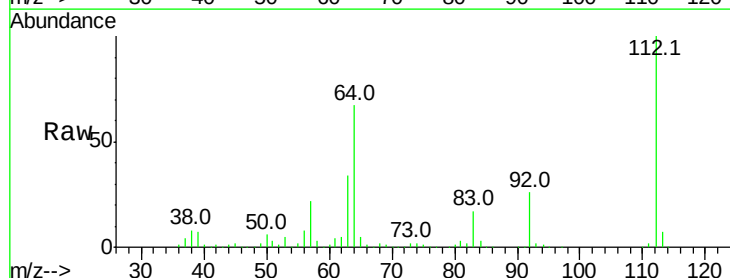
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



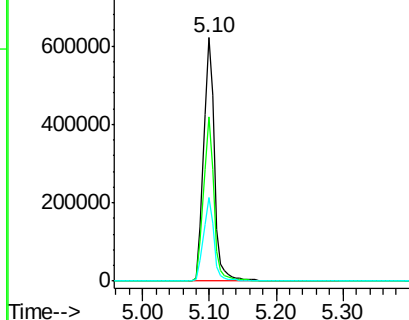
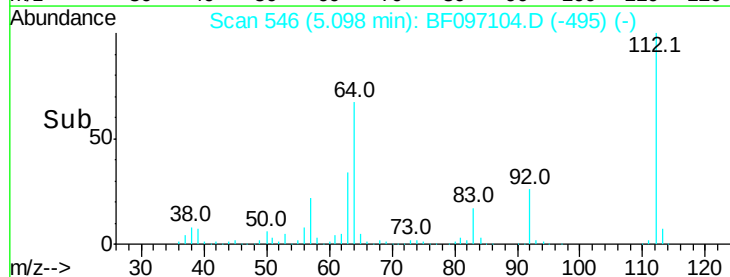
#5

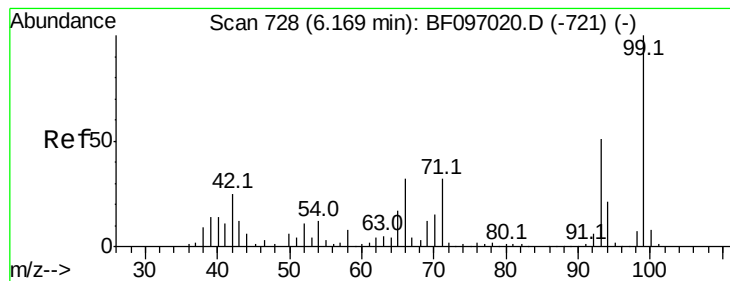
2-Fluorophenol
Concen: 123.276 ng
RT: 5.10 min Scan# 546
Delta R.T. 0.00 min
Lab File: BF097104.D
Acq: 27 Jul 2017 4:38

Tgt Ion:112 Resp: 689326
Ion Ratio Lower Upper
112 100
64 67.5 46.0 69.0
63 34.2 23.4 35.0



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: 113.907 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

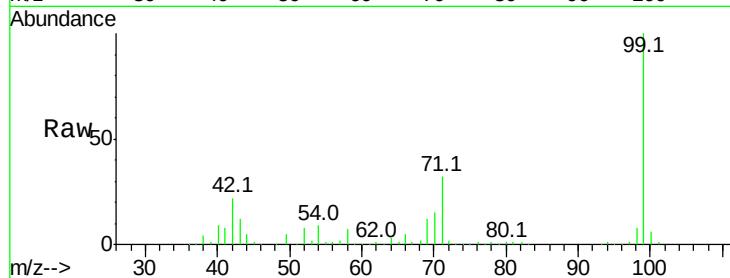
Tot Ion: 99 Resp: 727144

Ion Ratio Lower Upper

99 100

42 21.9 13.5 20.3#

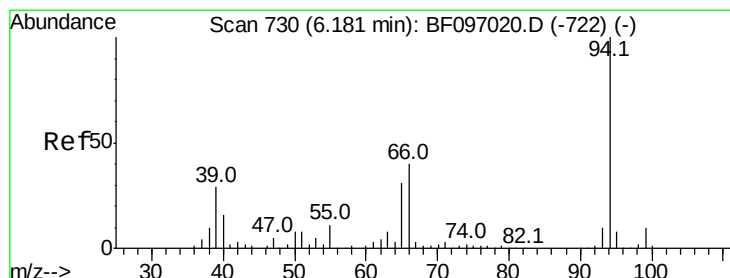
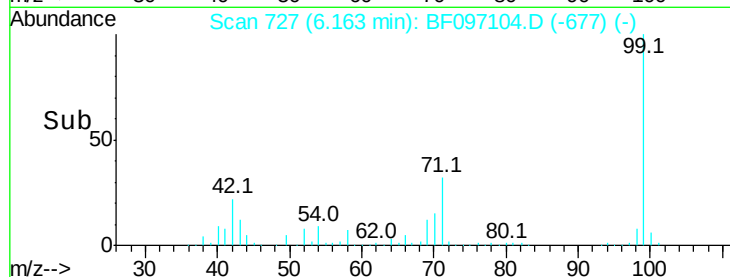
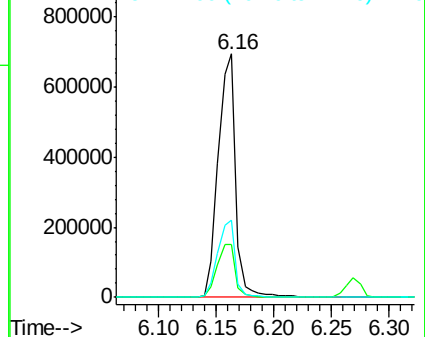
71 31.8 24.5 36.7



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



#10

Phenol

Concen: 4.016 ng

RT: 6.17 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

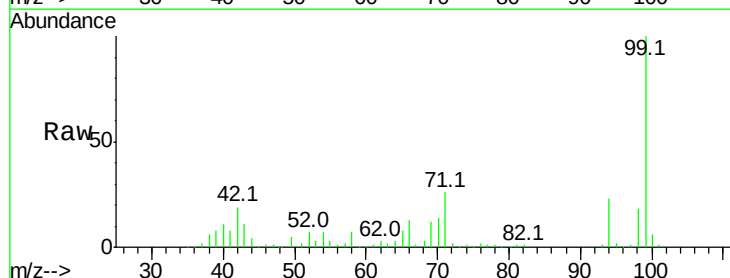
Tgt Ion: 94 Resp: 30411

Ion Ratio Lower Upper

94 100

65 33.8 9.9 49.9

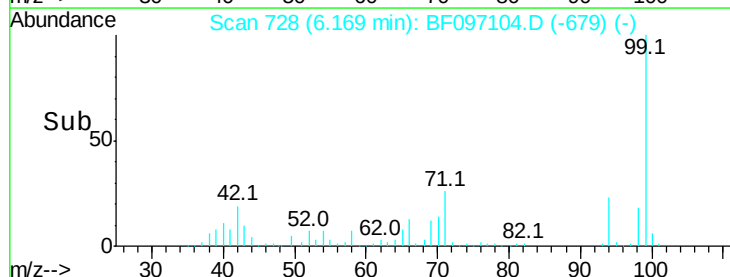
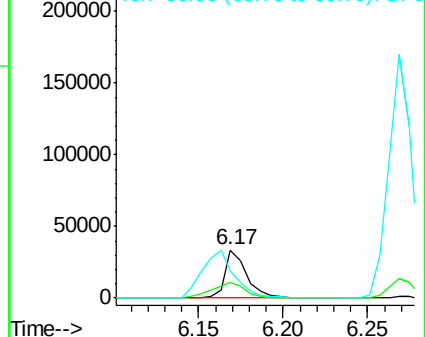
66 57.2 23.1 63.1

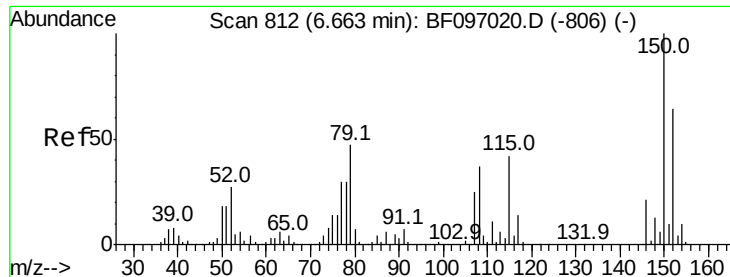


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.058 ng

RT: 6.65 min Scan# 810

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampled :

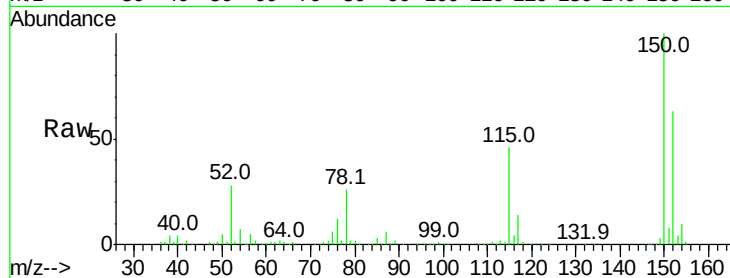
Tot Ion: 79 Resp: 8319

Ion Ratio Lower Upper

79 100

108 24.6 63.4 95.0#

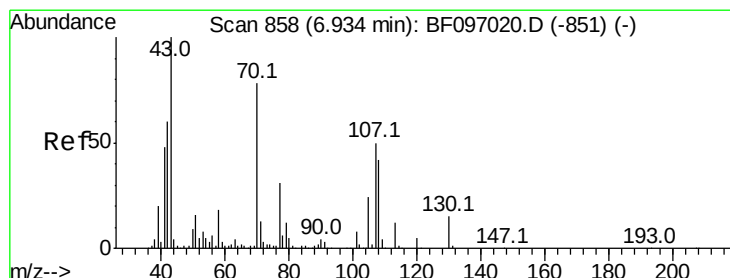
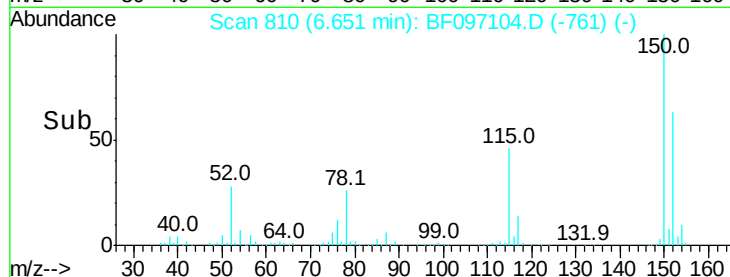
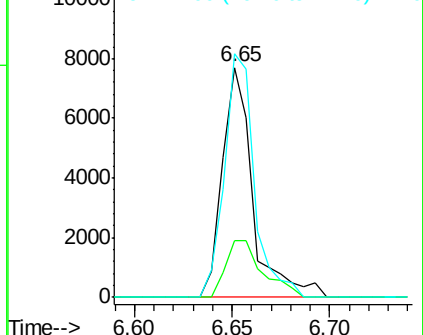
77 105.9 49.2 73.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 12.064 ng

RT: 7.06 min Scan# 880

Delta R.T. 0.13 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Tgt Ion: 70 Resp: 50693

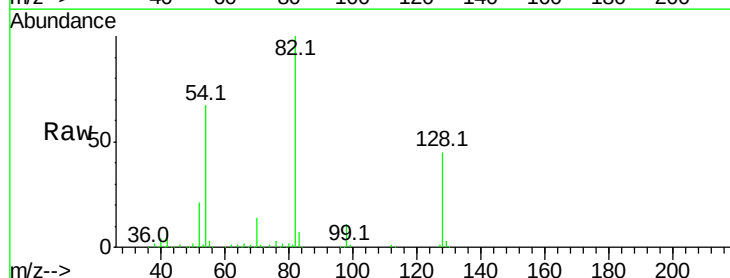
Ion Ratio Lower Upper

70 100

42 60.3 47.2 70.8

101 0.0 7.2 10.8#

130 2.4 15.9 23.9#

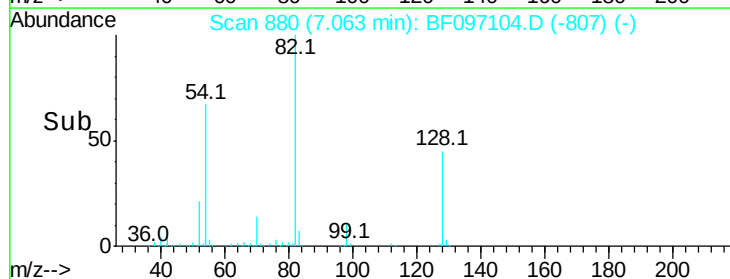
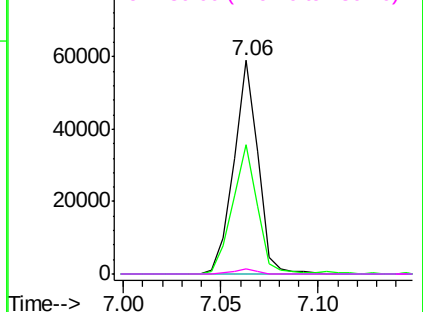


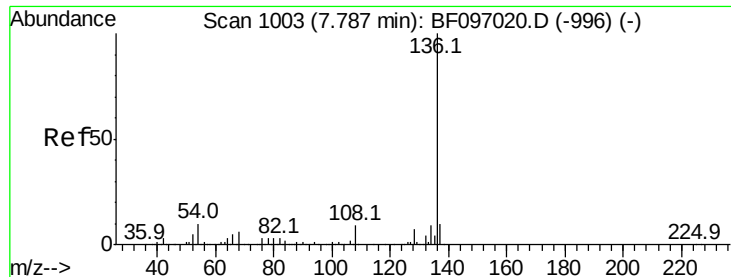
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.78 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 321442

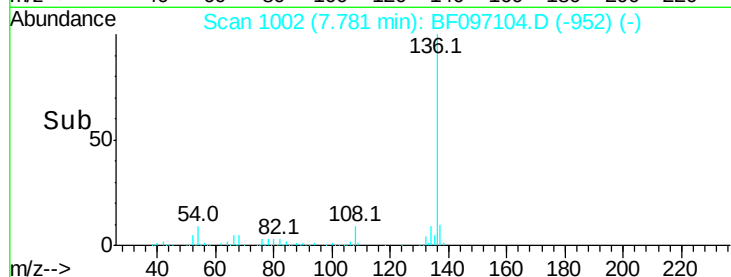
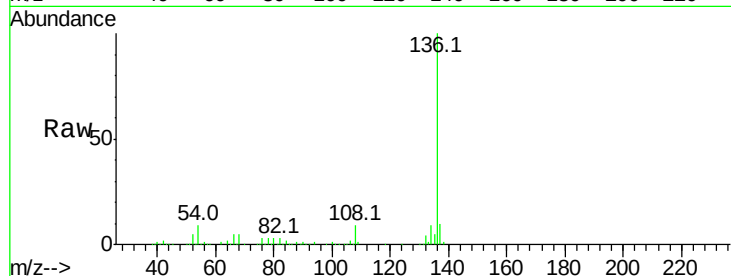
Ion Ratio Lower Upper

136 100

137 10.2 8.5 12.7

54 9.4 4.9 7.3#

68 4.7 4.1 6.1

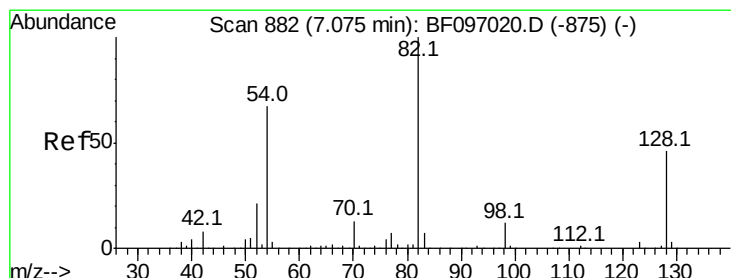
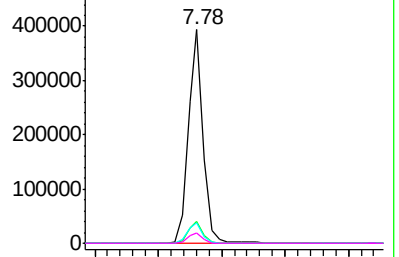


Abundance Ion 136.00 (135.70 to 136.70): E

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: 70.478 ng

RT: 7.06 min Scan# 880

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

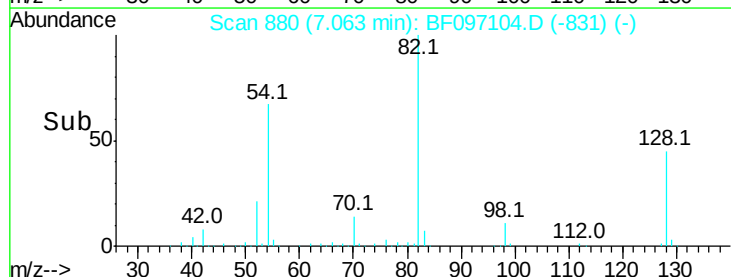
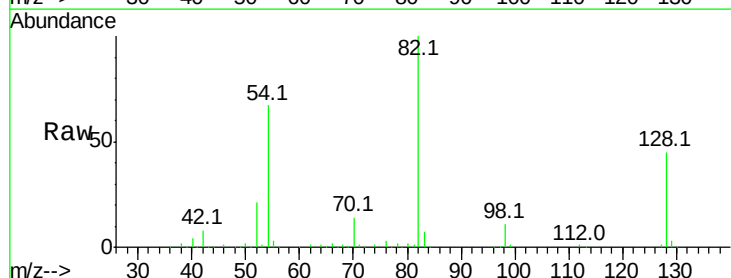
Tgt Ion: 82 Resp: 386177

Ion Ratio Lower Upper

82 100

128 45.1 34.0 51.0

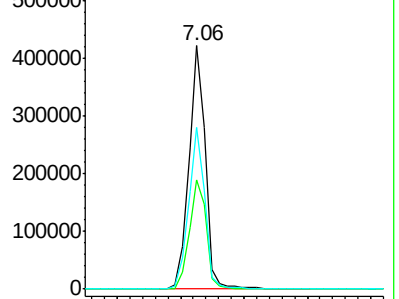
54 66.5 42.2 63.2#

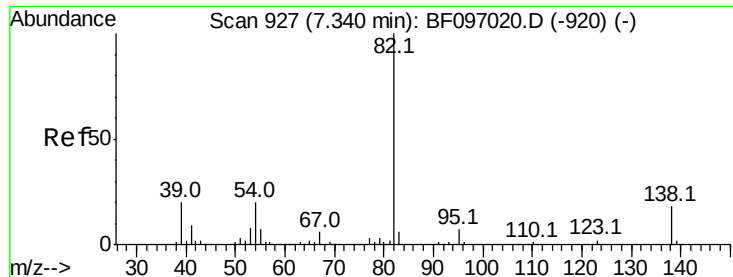


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 35.531 ng

RT: 7.06 min Scan# 880

Delta R.T. -0.28 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

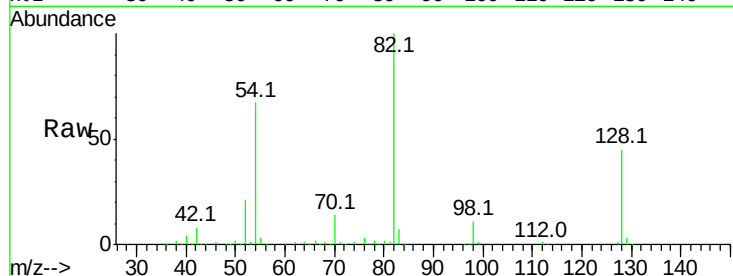
Tot Ion: 82 Resp: 381269

Ion Ratio Lower Upper

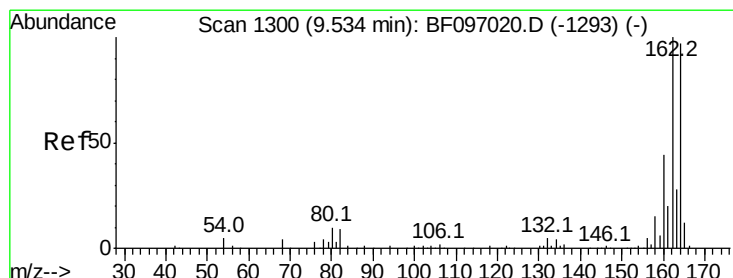
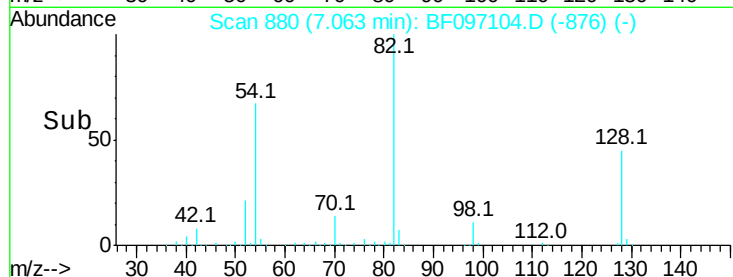
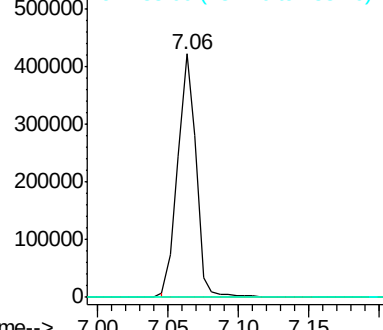
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



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): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.53 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

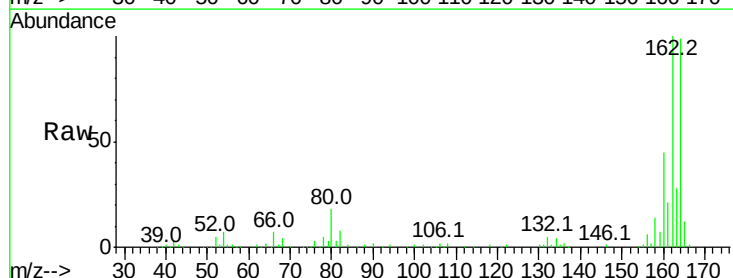
Tgt Ion:164 Resp: 119565

Ion Ratio Lower Upper

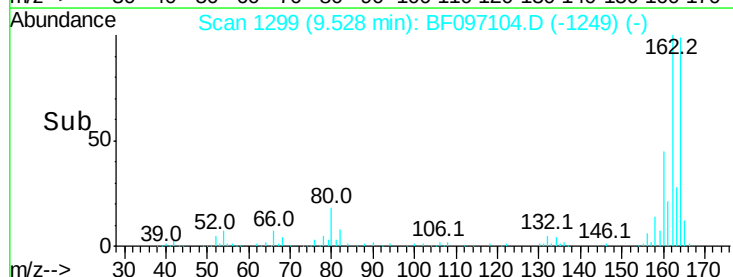
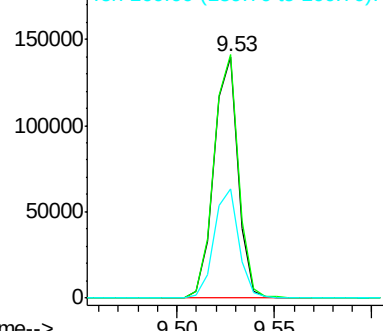
164 100

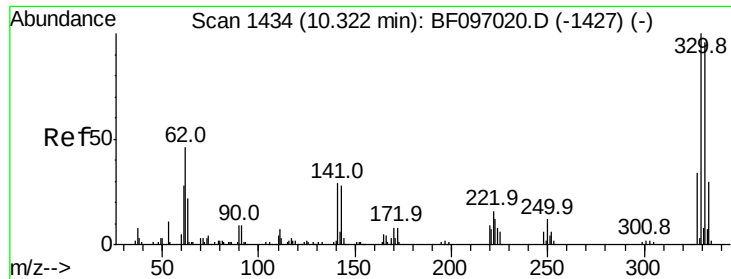
162 100.8 82.6 123.8

160 45.0 36.2 54.2



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

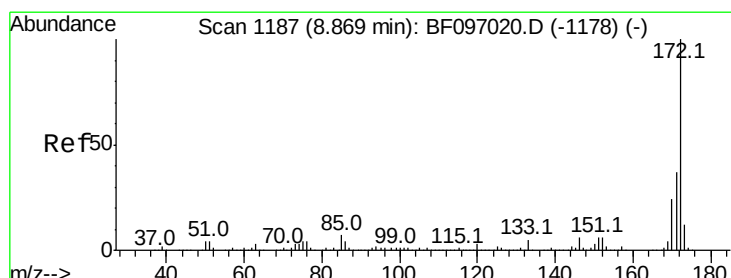
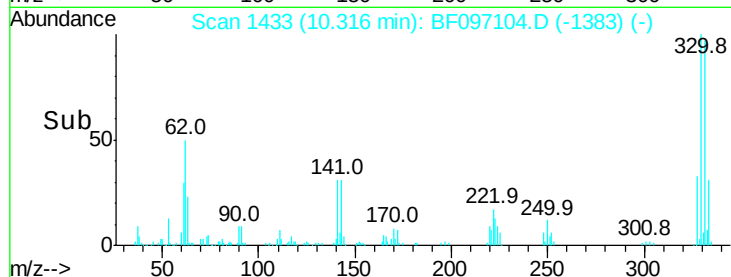
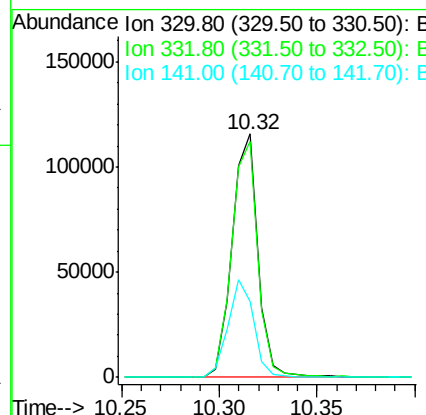
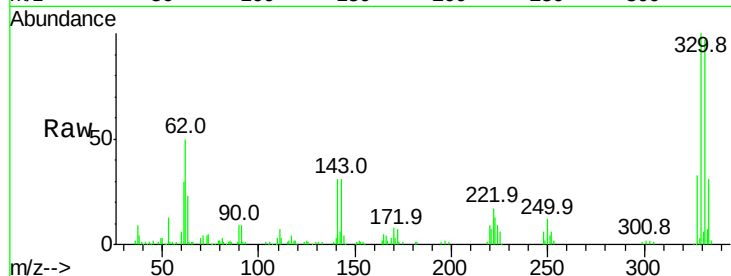




#41
 2,4,6-Tribromophenol
 Concen: 112.275 ng
 RT: 10.32 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: BF097104.D
 Acq: 27 Jul 2017 4:38

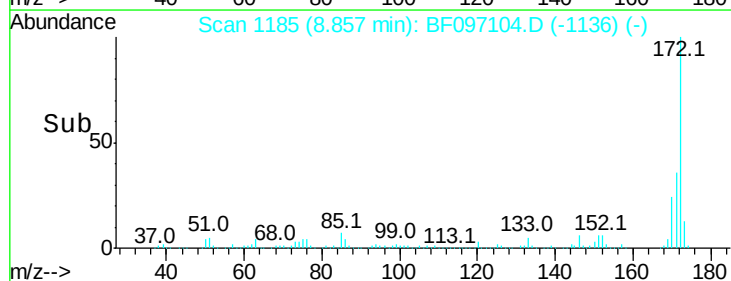
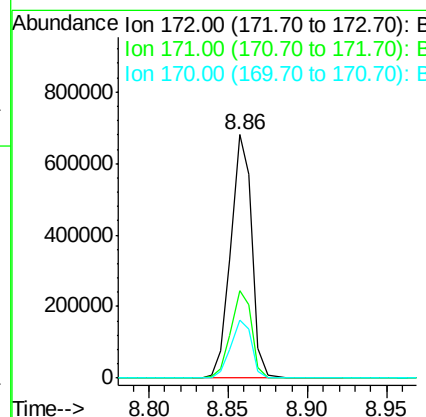
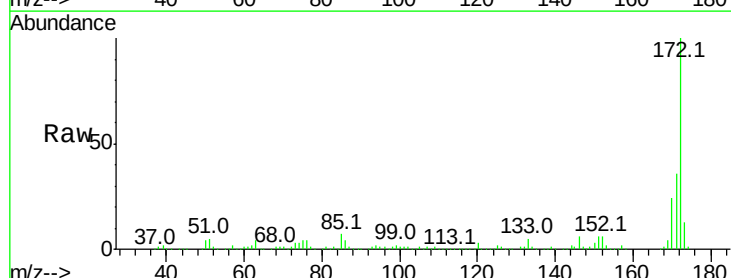
Instrument :
 BNA_F
 ClientSampleId :

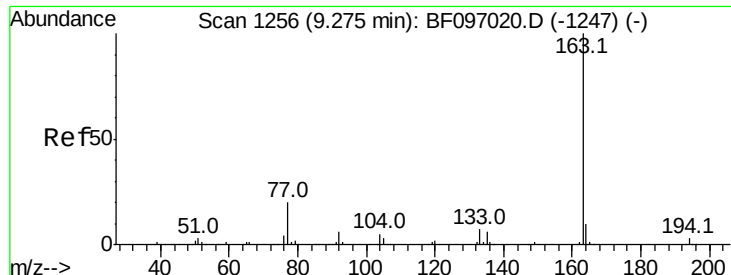
Tot Ion	Ratio	Lower	Upper
330	100		
332	98.9	76.6	115.0
141	40.1	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 88.720 ng
 RT: 8.86 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF097104.D
 Acq: 27 Jul 2017 4:38

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	23.8	19.8	29.8





#49

Dimethylphthalate

Concen: 13.214 ng

RT: 9.26 min Scan# 1253

Delta R.T. -0.02 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

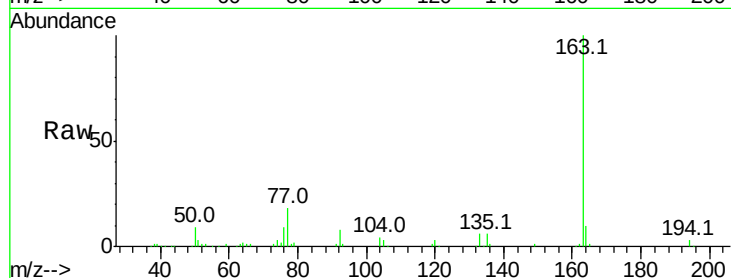
Tot Ion:163 Resp: 119981

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

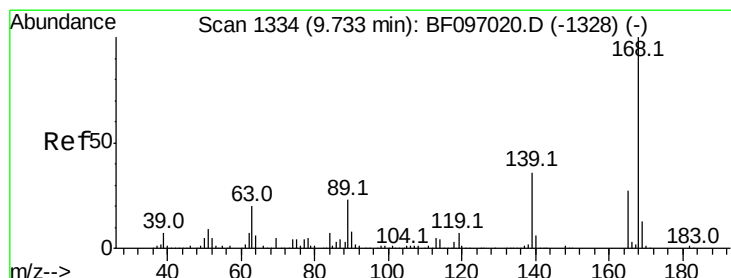
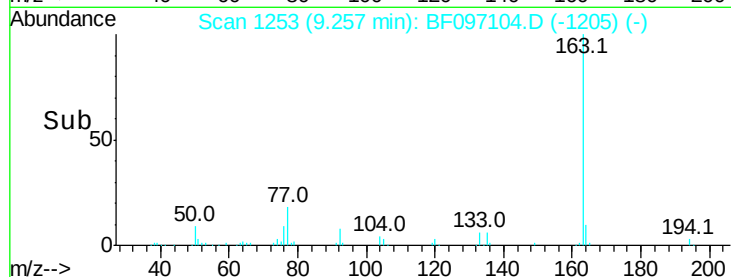
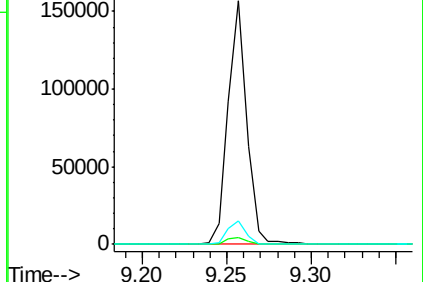
164 9.7 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 6.807 ng

RT: 9.53 min Scan# 1299

Delta R.T. -0.21 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Tgt Ion:165 Resp: 15069

Ion Ratio Lower Upper

165 100

63 1.9 25.4 38.0#

89 0.0 46.4 69.6#

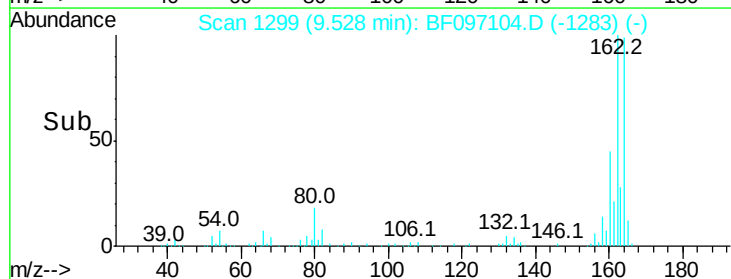
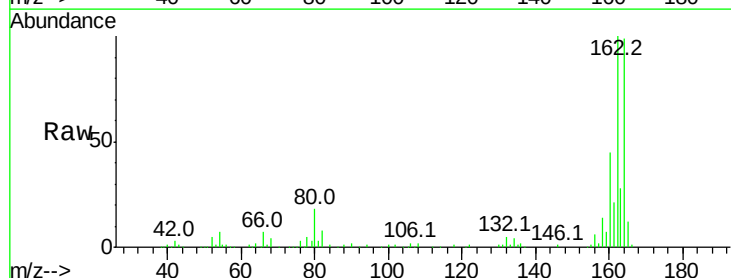
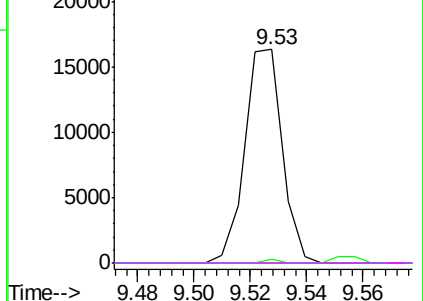
182 0.0 1.8 2.6#

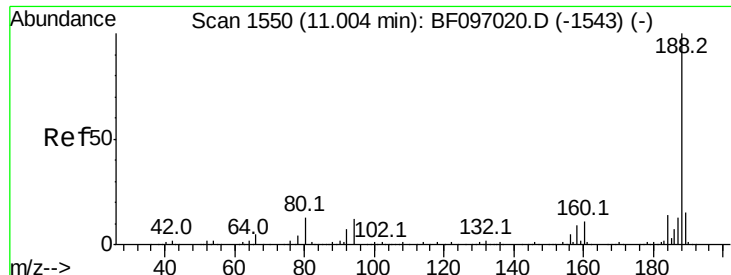
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

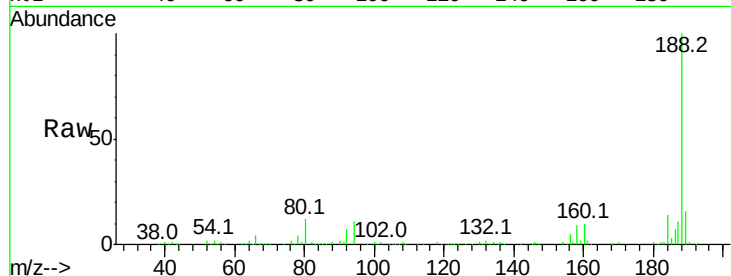




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.00 min Scan# 1549
 Delta R.T. -0.01 min
 Lab File: BF097104.D
 Acq: 27 Jul 2017 4:38

Instrument :
 BNA_F
 ClientSampled :

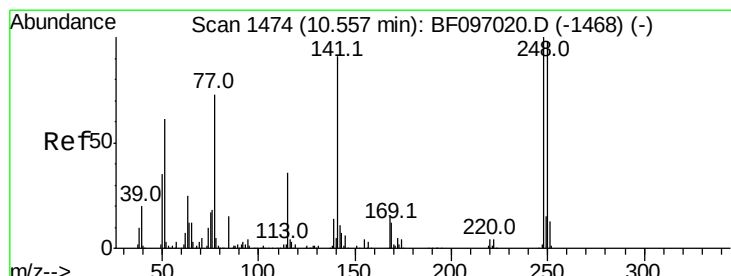
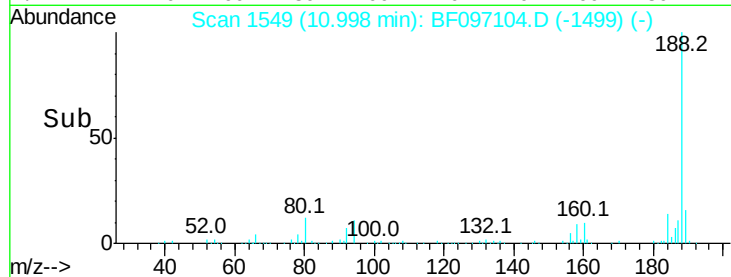
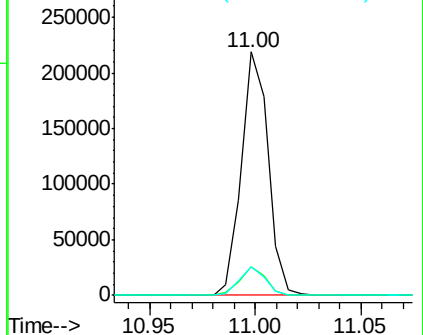
Tot Ion	Ratio	Lower	Upper
188	100		
94	11.5	9.4	14.2
80	12.0	10.2	15.2



Abundance Ion 188.00 (187.70 to 188.70): E

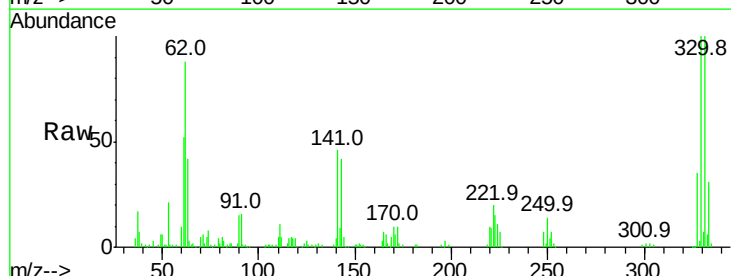
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#66
 4-Bromophenyl-phenylether
 Concen: 3.609 ng
 RT: 10.31 min Scan# 1432
 Delta R.T. -0.25 min
 Lab File: BF097104.D
 Acq: 27 Jul 2017 4:38

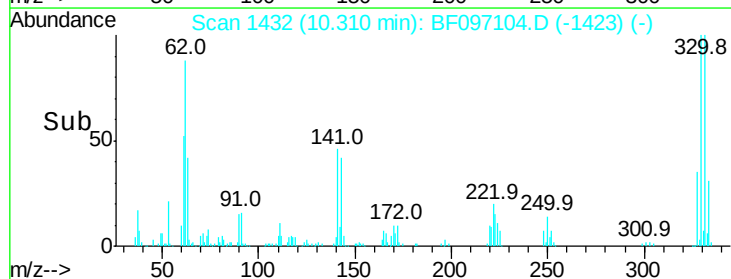
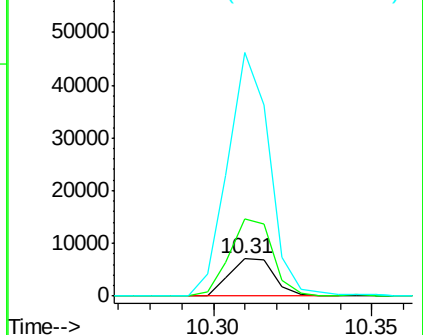
Tgt Ion	Ratio	Lower	Upper
248	100		
250	204.5	76.8	115.2#
141	649.7	68.6	103.0#

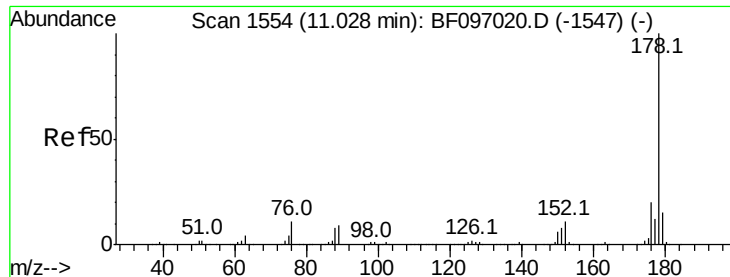


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 7.675 ng

RT: 11.02 min Scan# 1553

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

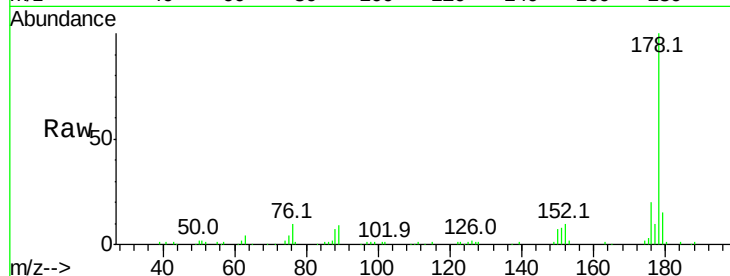
Tot Ion:178 Resp: 79060

Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.4

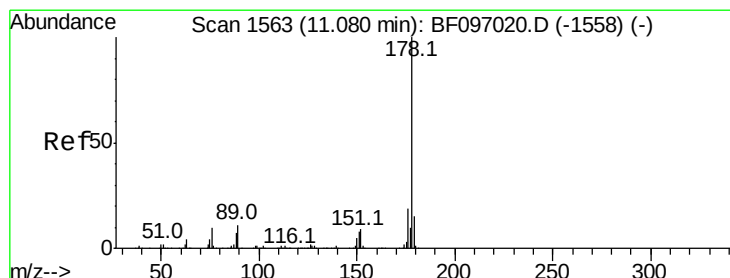
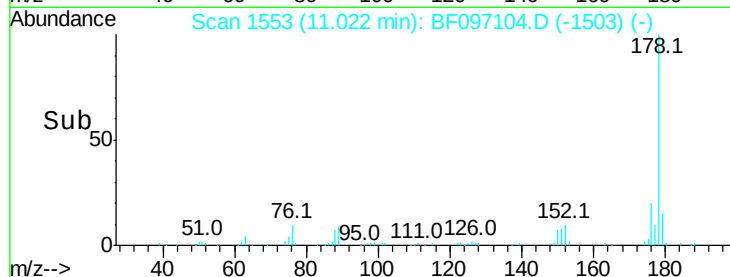
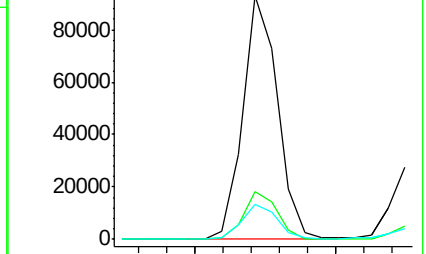
179 14.6 12.6 19.0



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: 2.313 ng

RT: 11.07 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

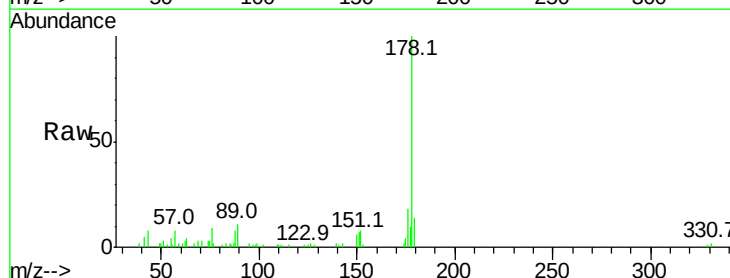
Tgt Ion:178 Resp: 24405

Ion Ratio Lower Upper

178 100

176 18.0 15.8 23.8

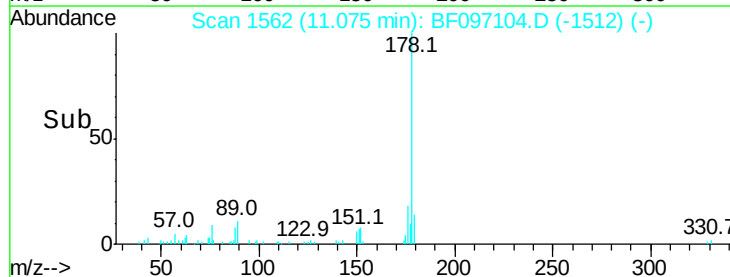
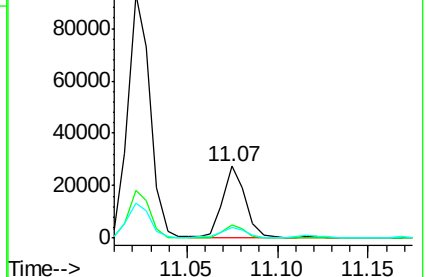
179 14.2 12.7 19.1

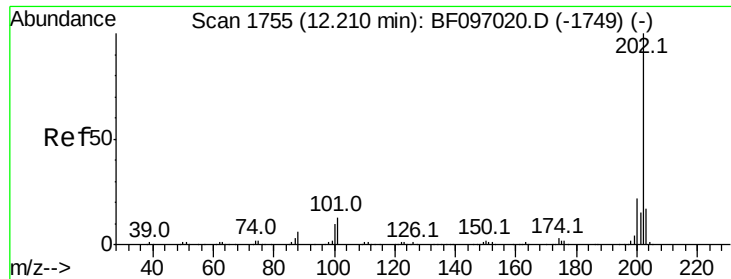


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 14.706 ng

RT: 12.20 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

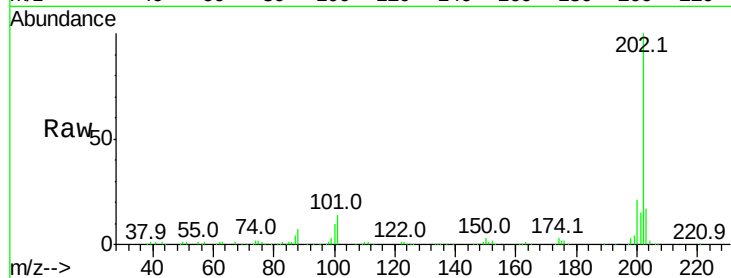
Tot Ion:202 Resp: 148411

Ion Ratio Lower Upper

202 100

101 13.7 0.0 33.2

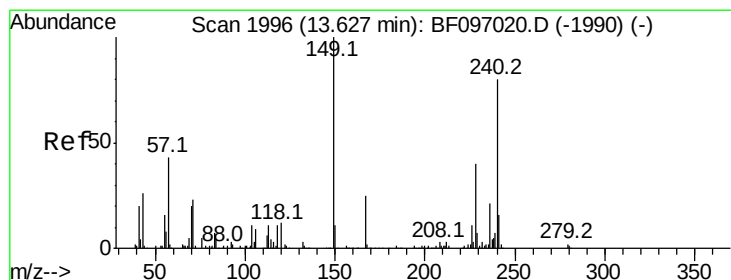
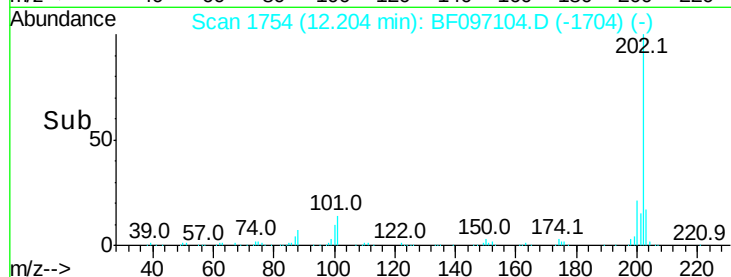
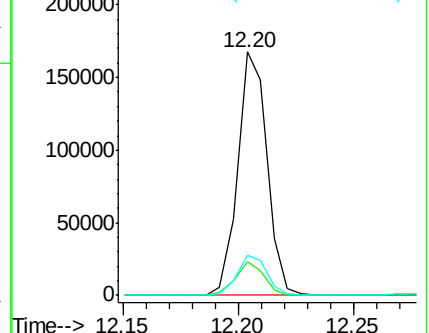
203 16.6 0.0 38.1



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: 20.000 ng

RT: 13.63 min Scan# 1996

Delta R.T. -0.00 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

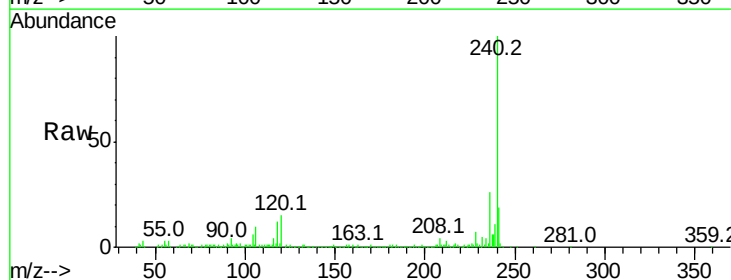
Tgt Ion:240 Resp: 170640

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

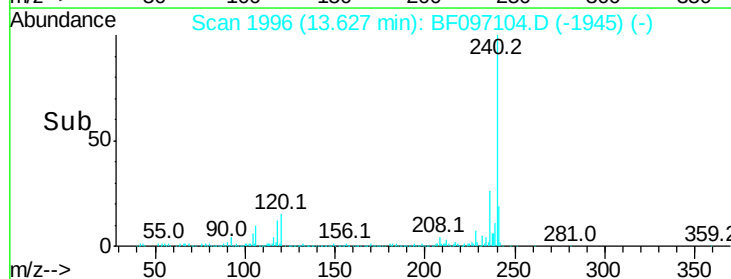
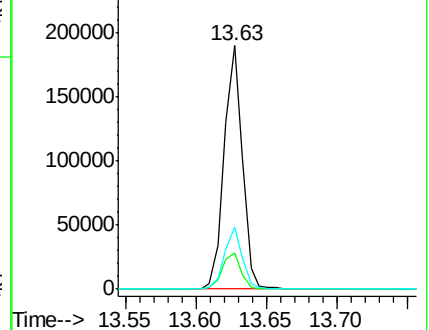
236 25.6 20.5 30.7

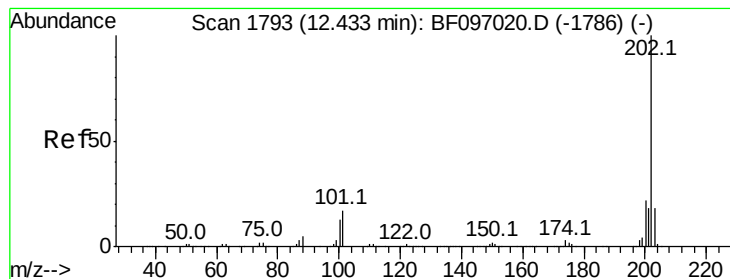


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 8.627 ng

RT: 12.43 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

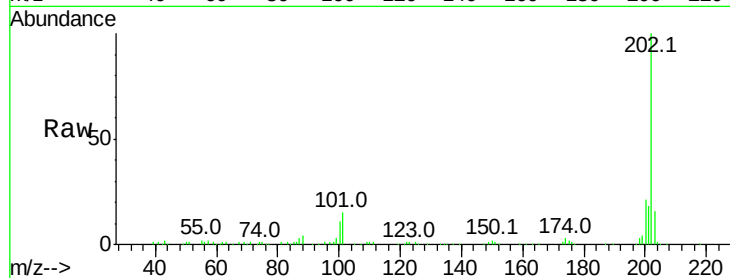
Tot Ion:202 Resp: 120518

Ion Ratio Lower Upper

202 100

200 20.9 17.6 26.4

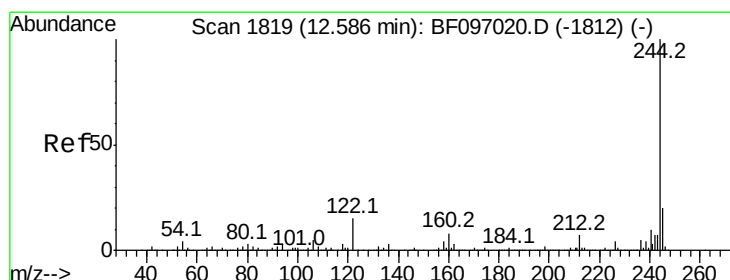
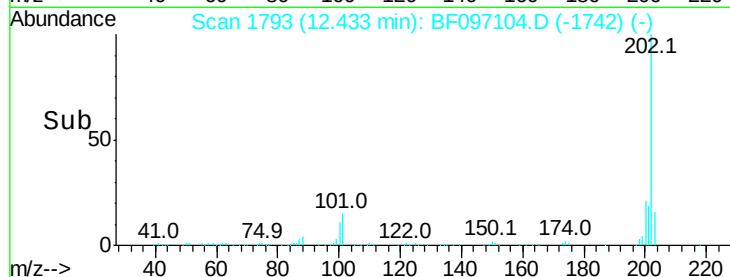
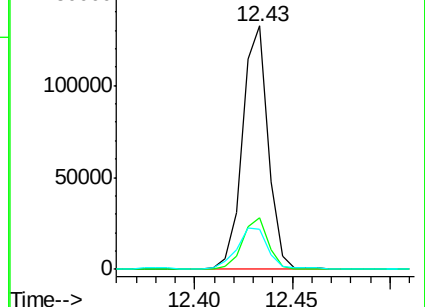
203 16.3 14.4 21.6



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: 55.697 ng

RT: 12.59 min Scan# 1819

Delta R.T. -0.00 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

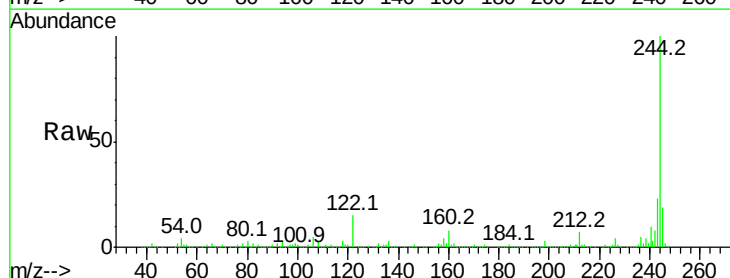
Tgt Ion:244 Resp: 466149

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

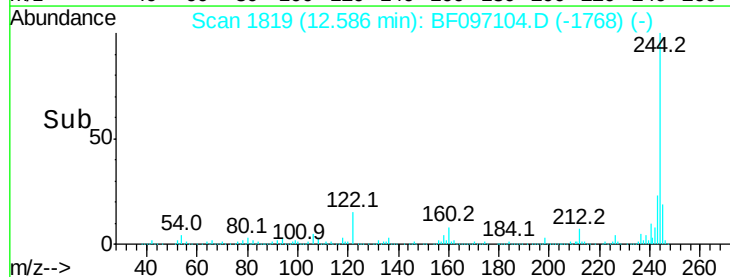
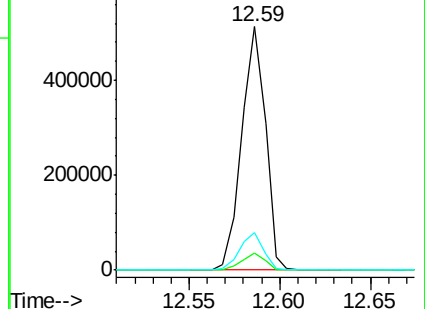
122 15.4 10.3 15.5

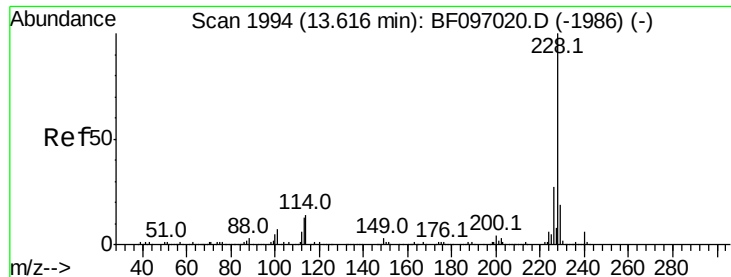


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.277 ng

RT: 13.62 min Scan# 1994

Delta R.T. -0.00 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

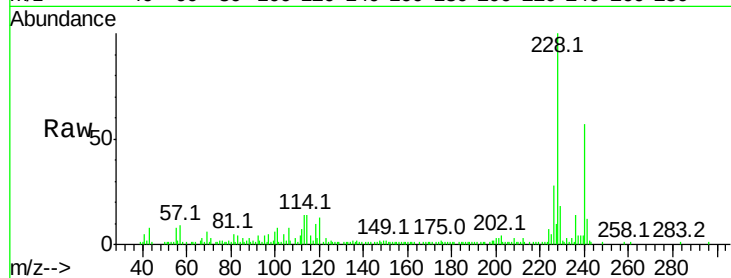
Tot Ion:228 Resp: 58269

Ion Ratio Lower Upper

228 100

226 27.5 22.6 33.8

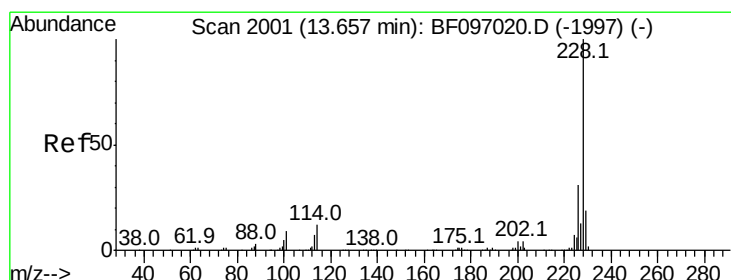
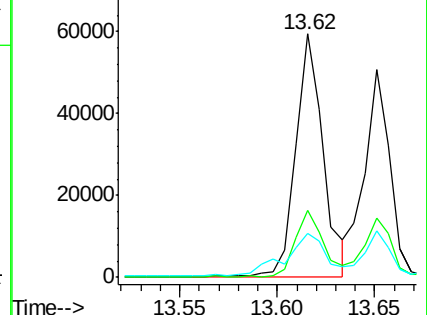
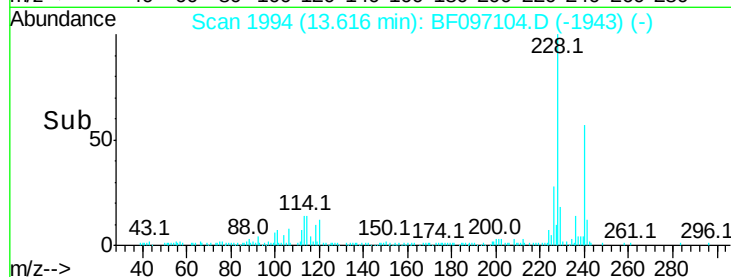
229 18.2 16.3 24.5



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



#82

Chrysene

Concen: 4.322 ng

RT: 13.65 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

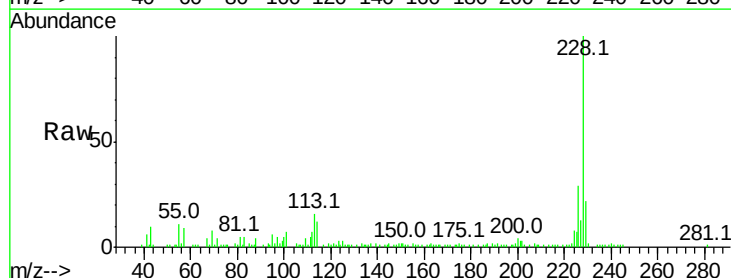
Tgt Ion:228 Resp: 46595

Ion Ratio Lower Upper

228 100

226 28.9 24.9 37.3

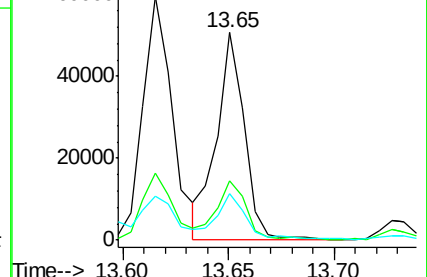
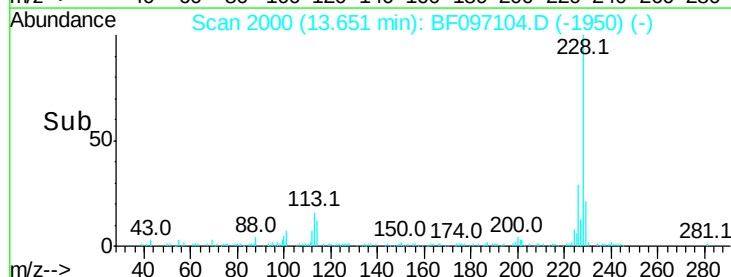
229 22.5 15.8 23.6

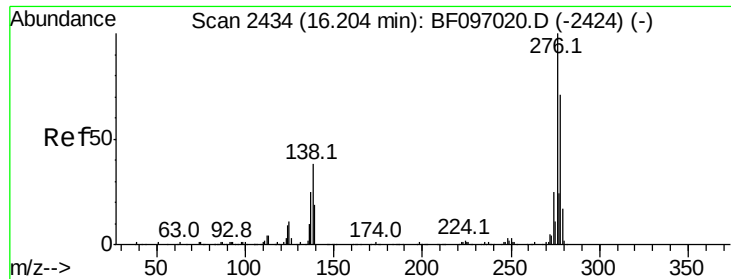


Abundance Ion 228.00 (227.70 to 228.70): E

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: 2.022 ng

RT: 16.21 min Scan# 2435

Delta R.T. 0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampled :

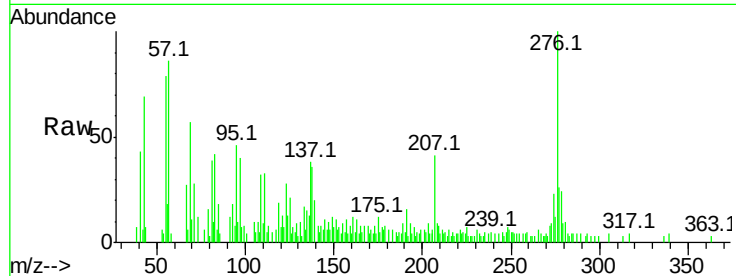
Tot Ion:276 Resp: 18690

Ion Ratio Lower Upper

276 100

138 31.4 27.8 41.6

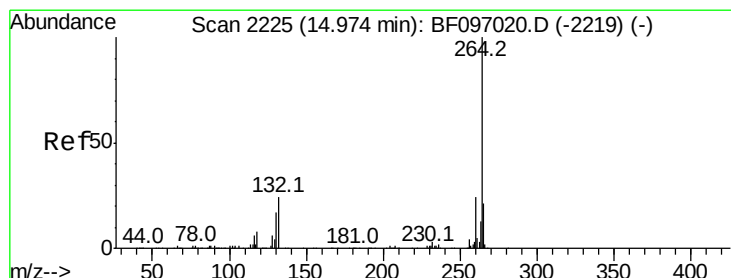
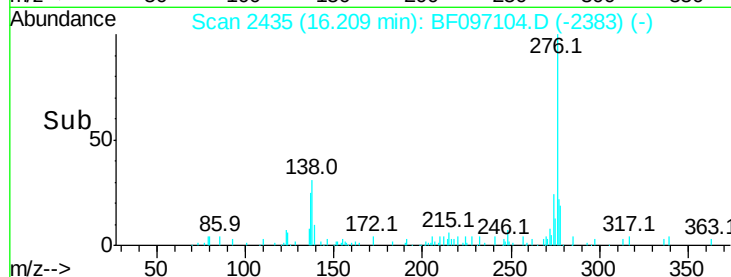
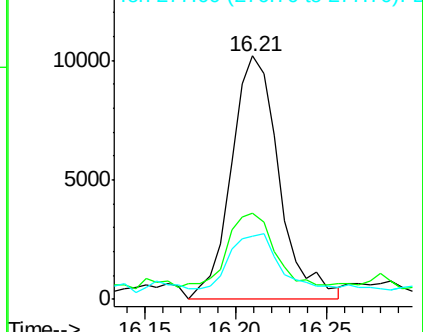
277 23.1 20.2 30.4



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: 20.000 ng

RT: 14.98 min Scan# 2226

Delta R.T. 0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

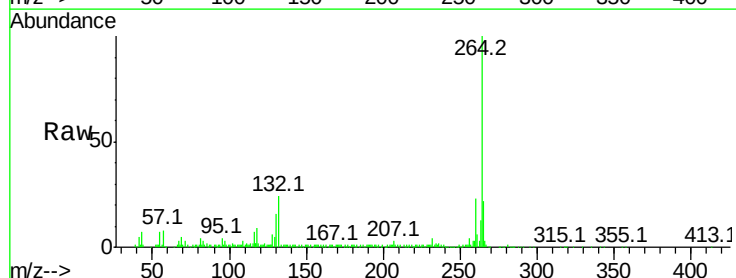
Tgt Ion:264 Resp: 129747

Ion Ratio Lower Upper

264 100

260 23.4 19.5 29.3

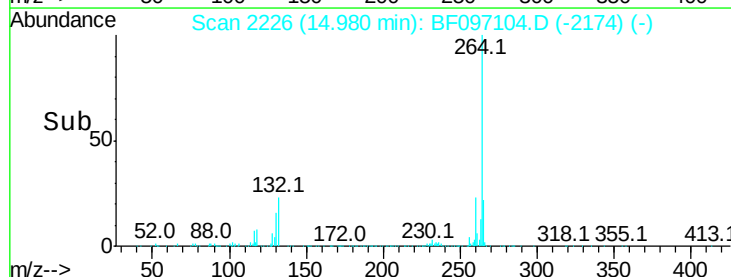
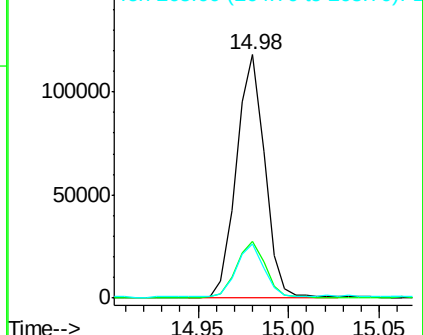
265 22.4 17.2 25.8

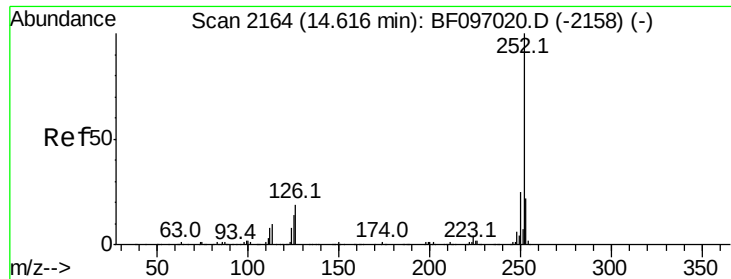


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

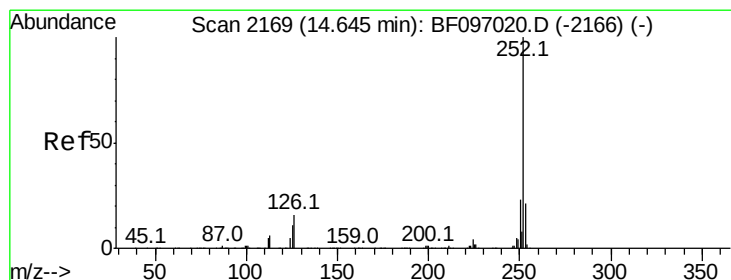
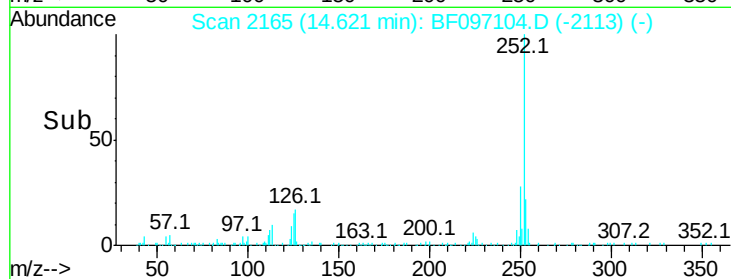
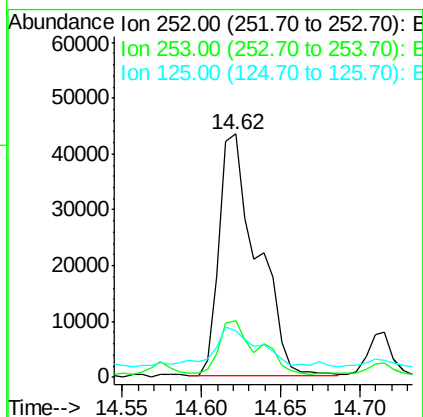
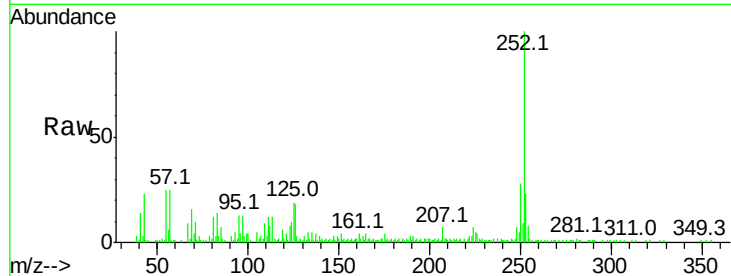




#87
Benzo(b)fluoranthene
Concen: 9.183 ng
RT: 14.62 min Scan# 2165
Delta R.T. 0.01 min
Lab File: BF097104.D
Acq: 27 Jul 2017 4:38

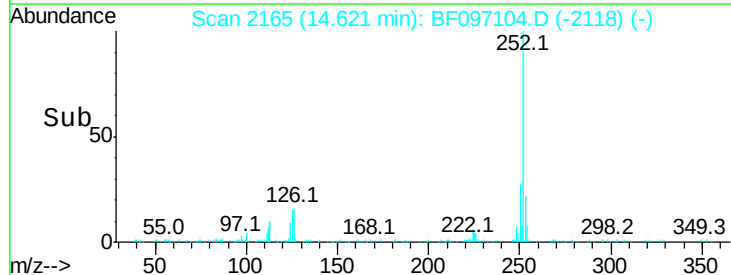
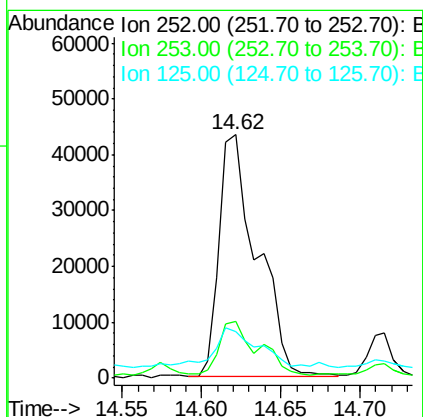
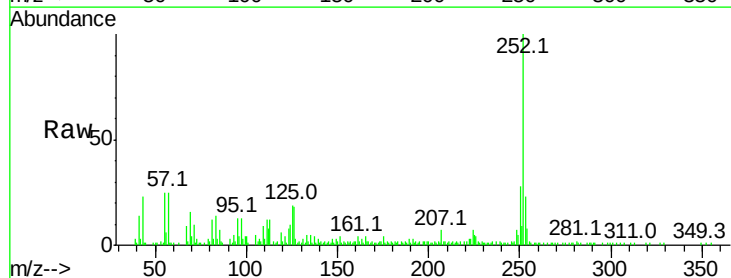
Instrument :
BNA_F
ClientSampleId :

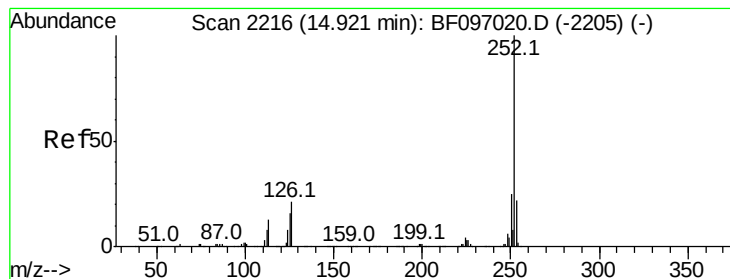
Tot Ion:252 Resp: 71623
Ion Ratio Lower Upper
252 100
253 23.1 18.1 27.1
125 19.3 9.8 14.8#



#88
Benzo(k)fluoranthene
Concen: 9.637 ng
RT: 14.62 min Scan# 2165
Delta R.T. -0.02 min
Lab File: BF097104.D
Acq: 27 Jul 2017 4:38

Tgt Ion:252 Resp: 71623
Ion Ratio Lower Upper
252 100
253 23.1 18.4 27.6
125 19.3 13.1 19.7





#89

Benzo(a)pyrene

Concen: 4.737 ng

RT: 14.93 min Scan# 2217

Delta R.T. 0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

Instrument :

BNA_F

ClientSampleId :

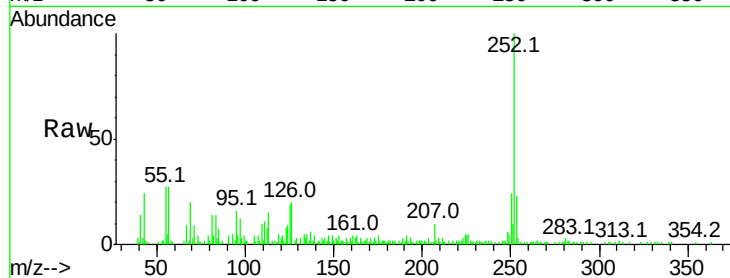
Tot Ion:252 Resp: 33814

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

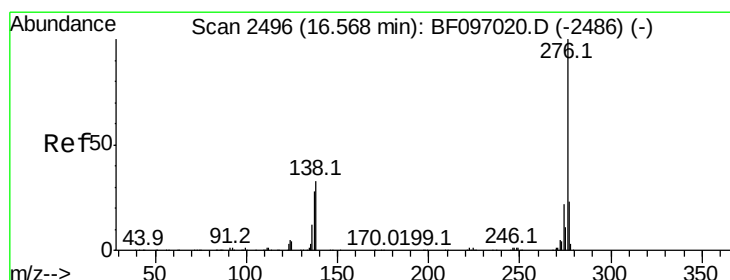
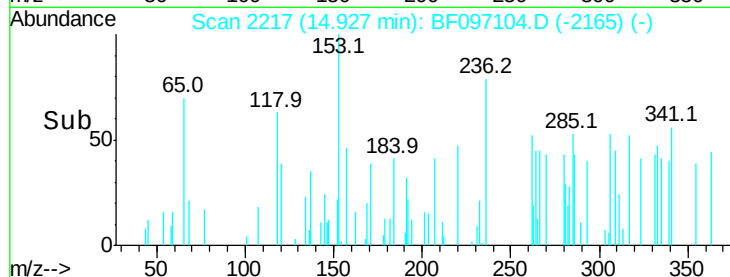
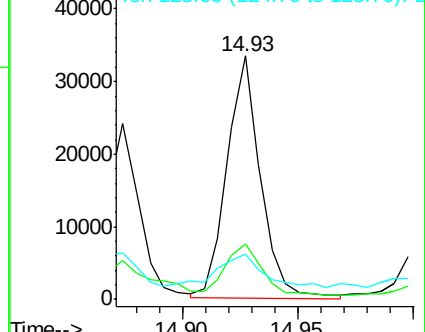
125 18.7 11.0 16.4#



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: 2.946 ng

RT: 16.57 min Scan# 2497

Delta R.T. 0.01 min

Lab File: BF097104.D

Acq: 27 Jul 2017 4:38

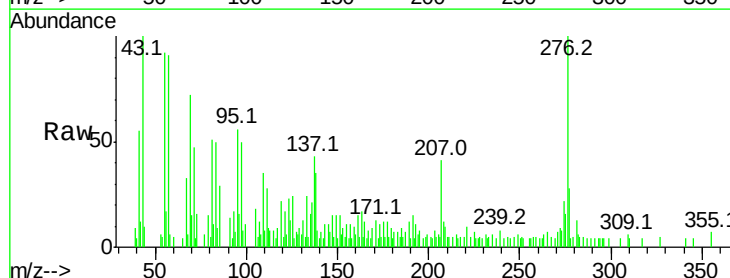
Tgt Ion:276 Resp: 18085

Ion Ratio Lower Upper

276 100

277 27.7 18.6 28.0

138 35.3 25.4 38.0



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

