

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102017\
 Data File : BF099704.D
 Acq On : 20 Oct 2017 16:47
 Operator : SJ/JU
 Sample : I5929-09
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 21 21:23:29 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 20 13:11:43 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	102848	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	414456	20.00	ng	-0.01
38) Acenaphthene-d10	9.85	164	170869	20.00	ng	-0.01
63) Phenanthrene-d10	11.33	188	239128	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	190973	20.00	ng	0.00
86) Perylene-d12	15.44	264	196793	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	738436	114.30	ng	0.00
7) Phenol-d6	6.46	99	897985	112.67	ng	0.00
23) Nitrobenzene-d5	7.38	82	519716	80.42	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	149885	107.20	ng	-0.01
44) 2-Fluorobiphenyl	9.17	172	908815	88.79	ng	0.00
78) Terphenyl-d14	12.92	244	565913	67.39	ng	0.00

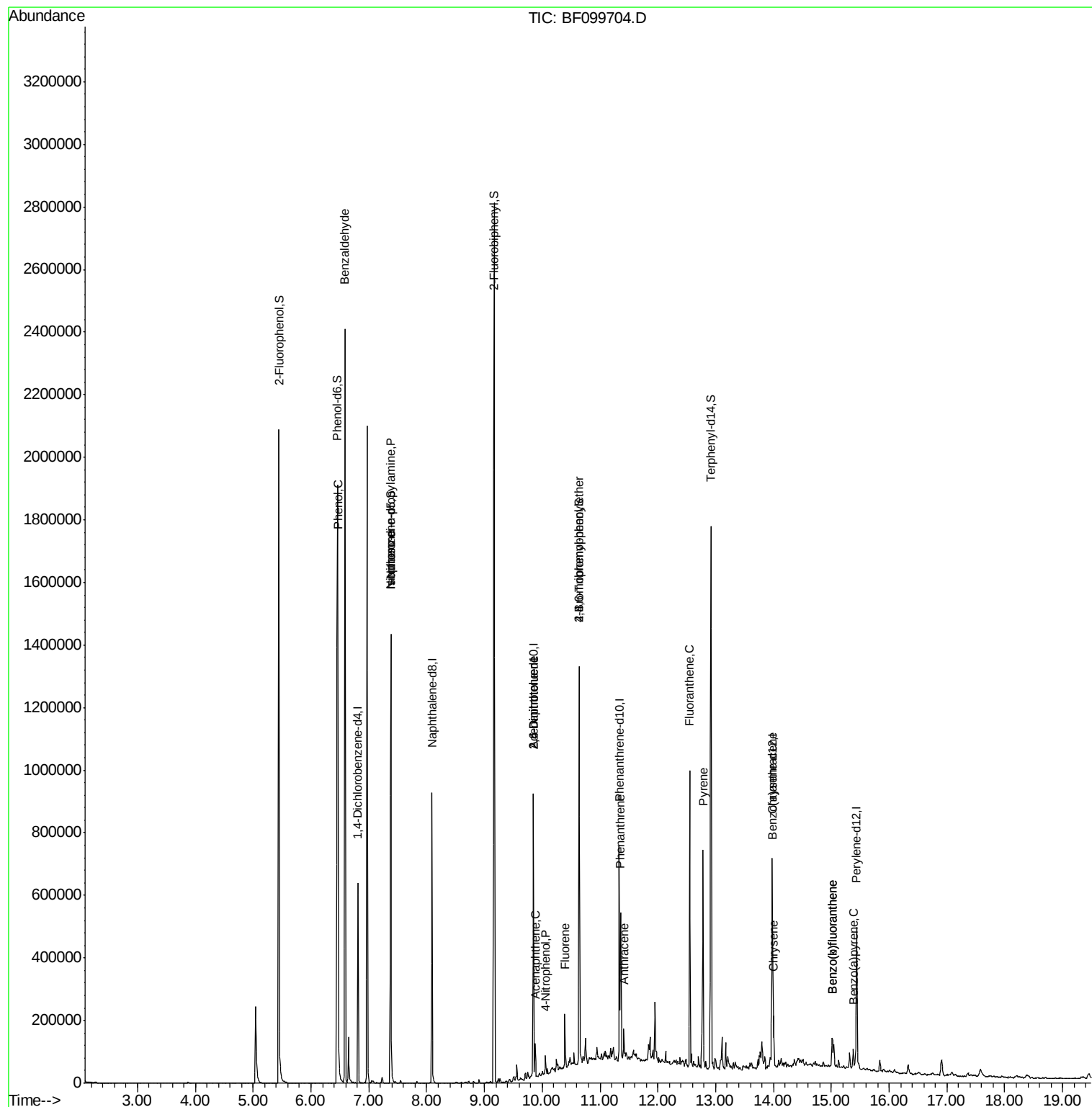
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.59	77	14001	3.028	ng	85
10) Phenol	6.47	94	40780	4.575	ng	93
19) n-Nitroso-di-n-propylamine	7.38	70	65186	12.810	ng	# 72
25) Isophorone	7.38	82	519716	38.896	ng	# 64
50) 2,6-Dinitrotoluene	9.85	165	22380	7.971	ng	# 25
51) Acenaphthene	9.88	154	22362	2.091	ng	98
55) 4-Nitrophenol	10.05	139	7526	2.719	ng	# 16
56) 2,4-Dinitrotoluene	9.85	165	22380	6.142	ng	# 22
57) Fluorene	10.39	166	47433	4.145	ng	97
66) 4-Bromophenyl-phenylether	10.64	248	9902	4.230	ng	# 1
70) Phenanthrene	11.36	178	180360	14.091	ng	98
71) Anthracene	11.41	178	41021	3.132	ng	97
74) Fluoranthene	12.55	202	345437	26.651	ng	98
77) Pyrene	12.78	202	258798	17.772	ng	99
80) Benzo(a)anthracene	13.97	228	71671	6.198	ng	99
82) Chrysene	14.00	228	56794	5.159	ng	95
87) Benzo(b)fluoranthene	15.02	252	64990	5.371	ng	# 93
88) Benzo(k)fluoranthene	15.02	252	64990	5.438	ng	# 96
89) Benzo(a)pyrene	15.38	252	24354	2.193	ng	# 89

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

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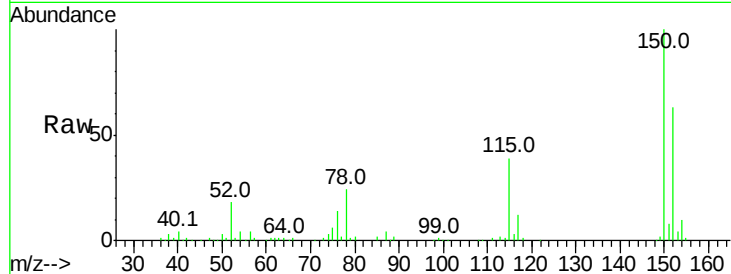


#1

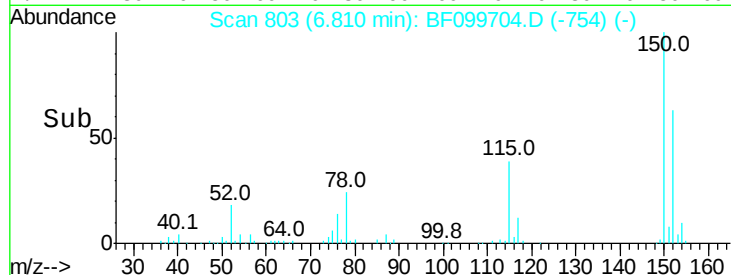
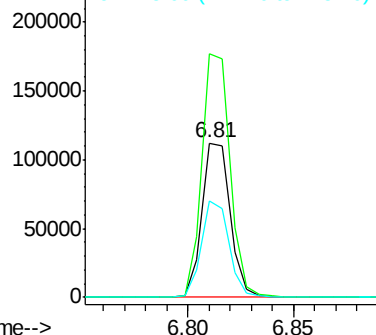
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 102848
Ion Ratio Lower Upper
152 100
150 157.9 124.6 186.8
115 62.3 50.1 75.1



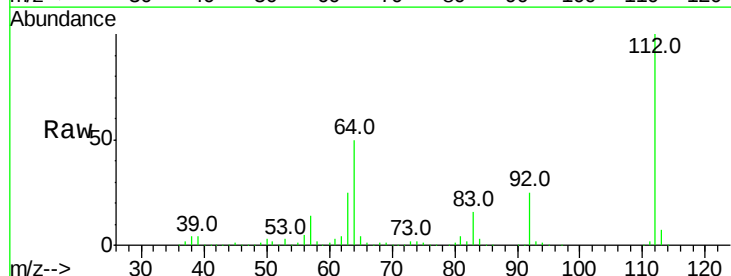
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



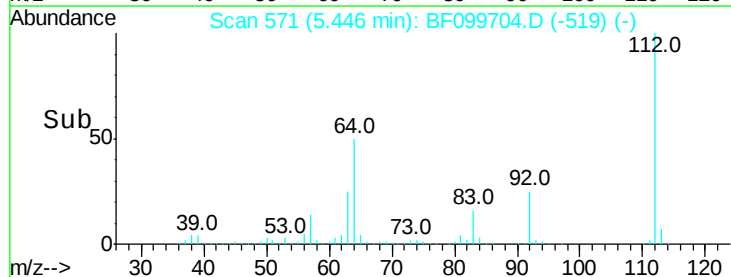
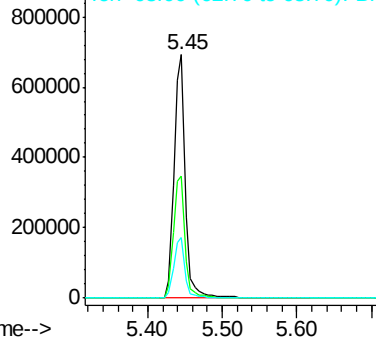
#5

2-Fluorophenol
Concen: 114.297 ng
RT: 5.45 min Scan# 571
Delta R.T. 0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Tgt Ion:112 Resp: 738436
Ion Ratio Lower Upper
112 100
64 50.2 47.9 71.9
63 24.6 23.7 35.5



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: 112.671 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

Instrument :

BNA_F

ClientSampled :

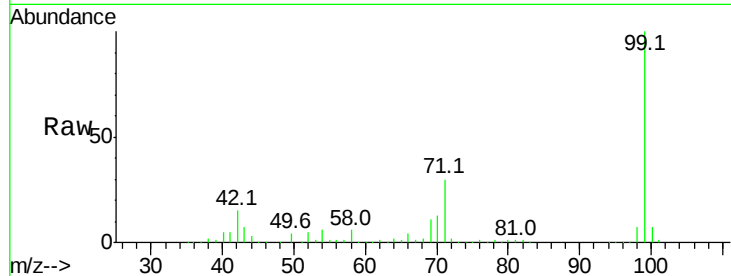
Tot Ion: 99 Resp: 897985

Ion Ratio Lower Upper

99 100

42 14.6 14.5 21.7

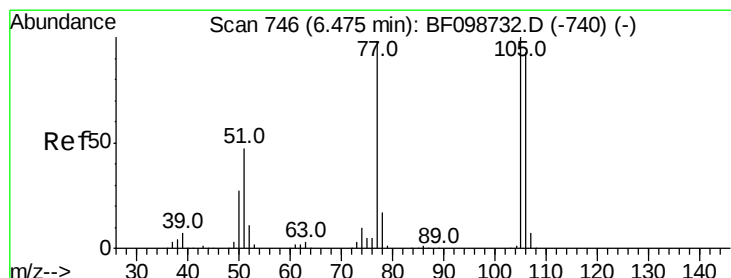
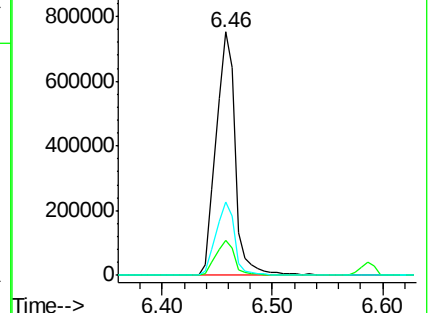
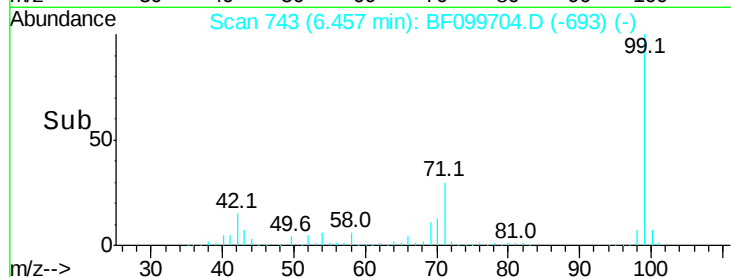
71 30.0 25.4 38.0



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: 3.028 ng

RT: 6.59 min Scan# 765

Delta R.T. 0.21 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

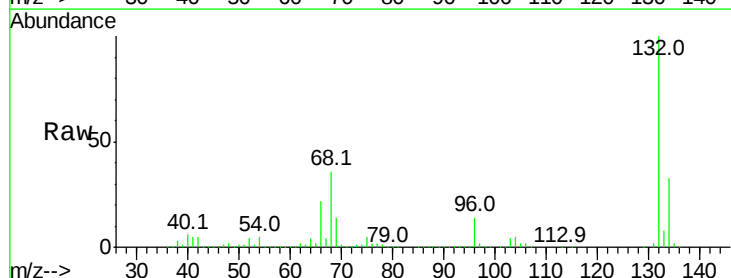
Tgt Ion: 77 Resp: 14001

Ion Ratio Lower Upper

77 100

105 85.5 81.1 121.1

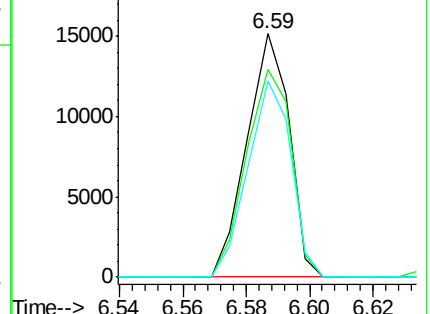
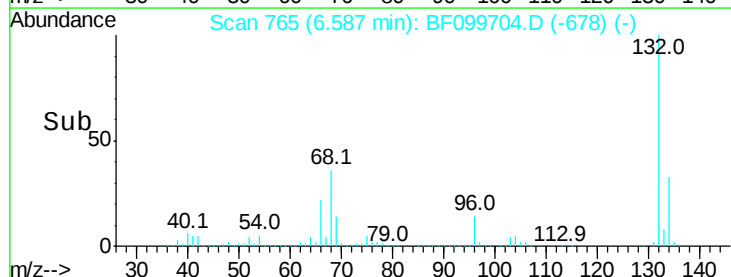
106 80.4 74.5 114.5

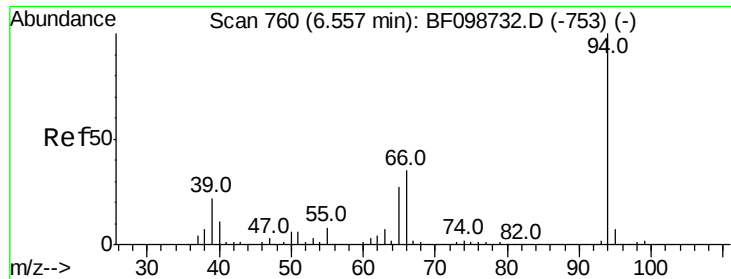


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B

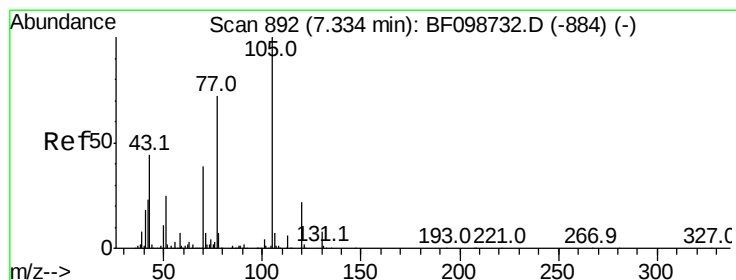
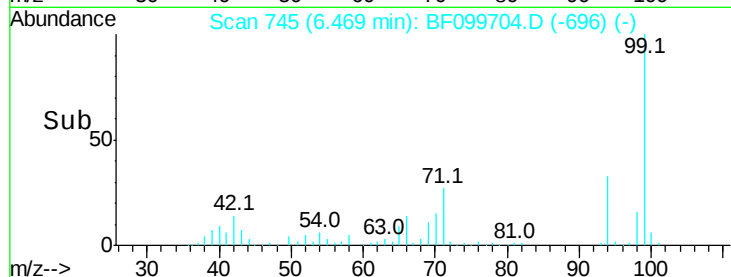
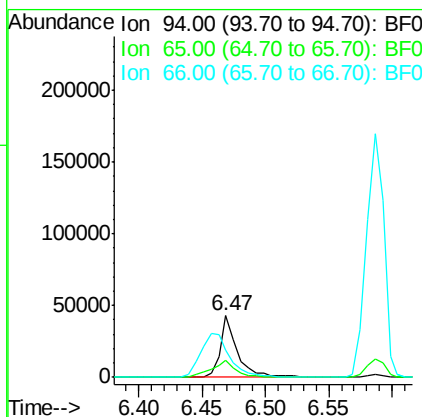
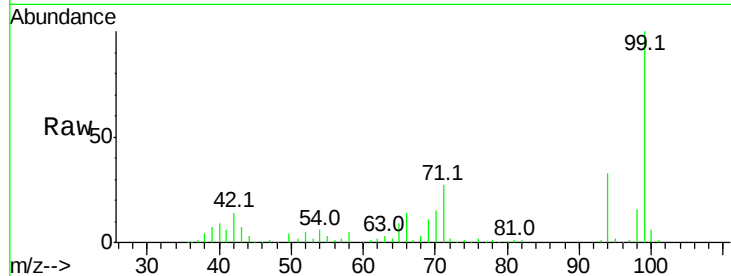




#10
Phenol
Concen: 4.575 ng
RT: 6.47 min Scan# 745
Delta R.T. -0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

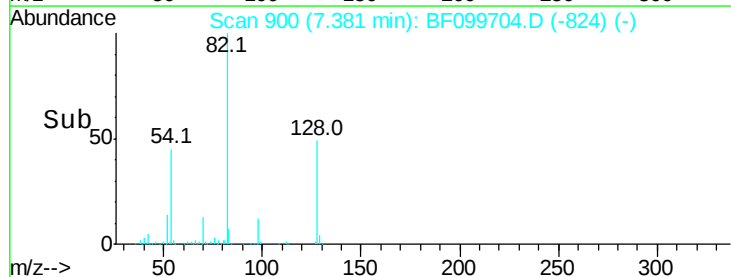
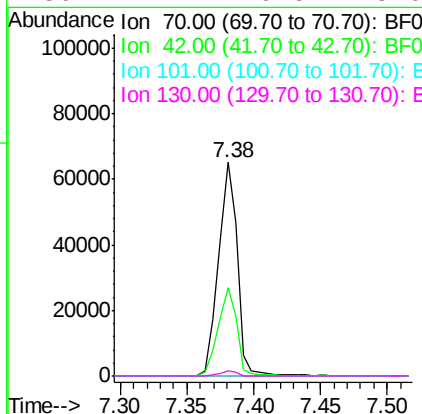
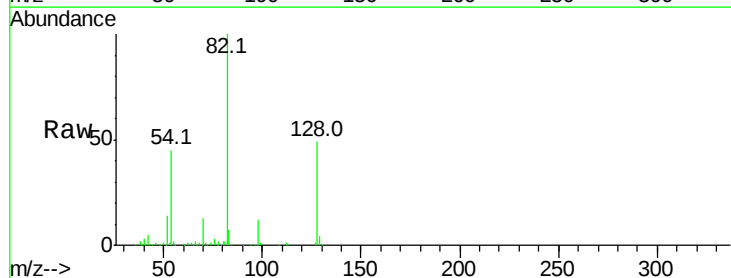
Instrument :
BNA_F
ClientSampleId :

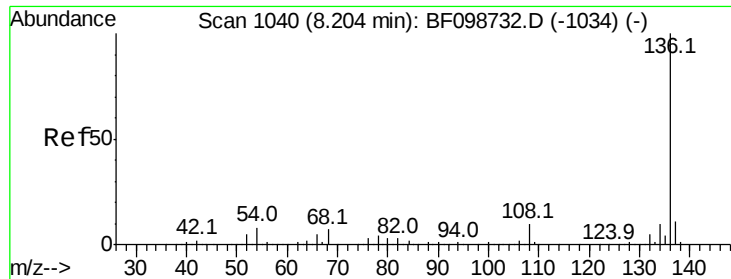
Tot Ion: 94 Resp: 40780
Ion Ratio Lower Upper
94 100
65 27.9 7.9 47.9
66 43.6 16.2 56.2



#19
n-Nitroso-di-n-propylamine
Concen: 12.810 ng
RT: 7.38 min Scan# 900
Delta R.T. 0.15 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Tgt Ion: 70 Resp: 65186
Ion Ratio Lower Upper
70 100
42 41.1 47.5 71.3#
101 0.0 7.4 11.2#
130 2.4 16.6 25.0#

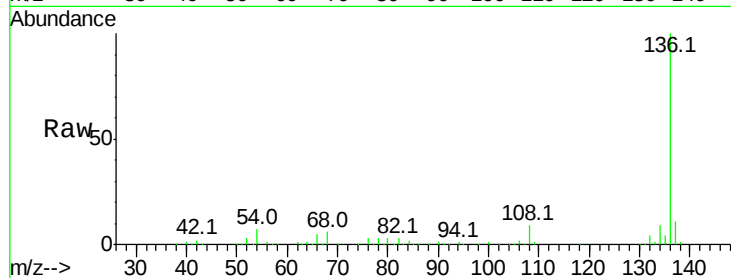




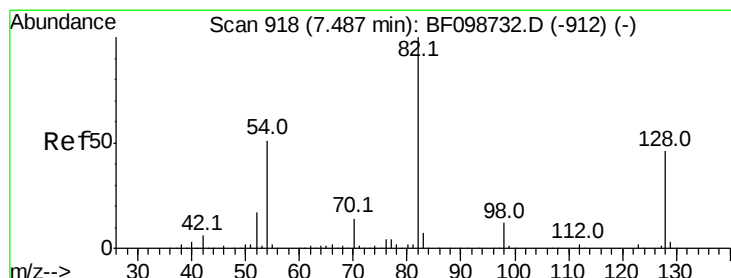
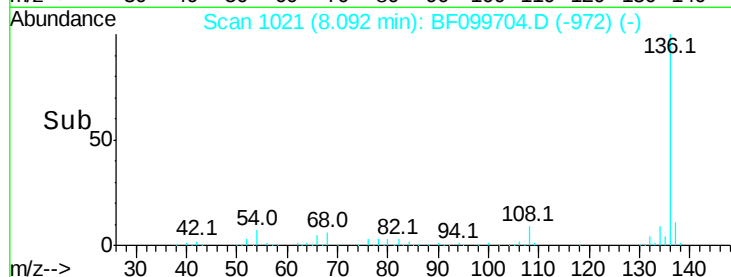
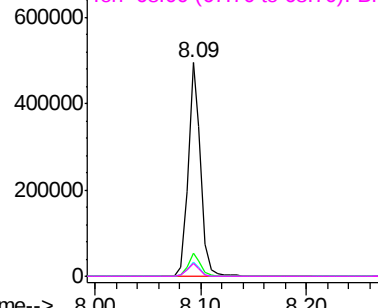
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	414456
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	6.7	6.6	9.8
68	5.8	5.0	7.4

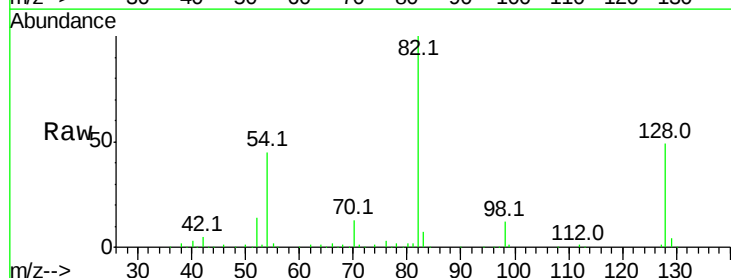


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

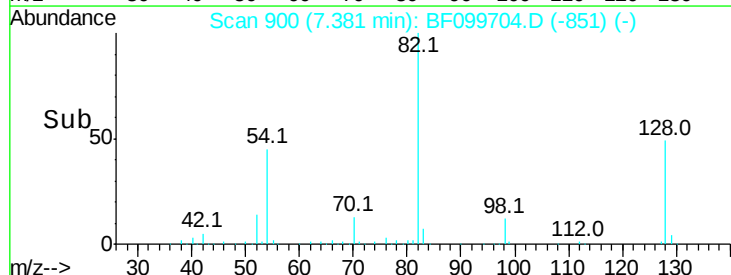
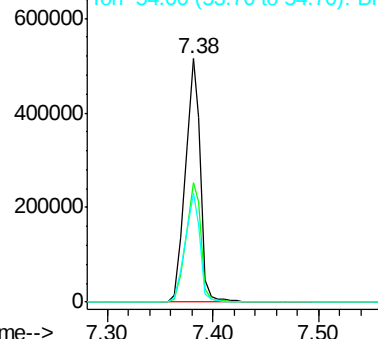


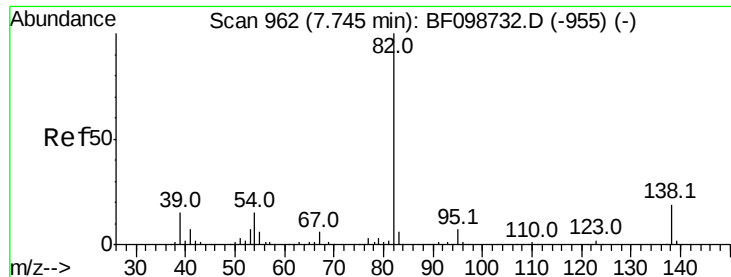
#23
Nitrobenzene-d5
Concen: 80.417 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Tgt Ion:	82	Resp:	519716
Ion	Ratio	Lower	Upper
82	100		
128	48.8	36.1	54.1
54	45.1	41.4	62.2



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: 38.896 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.26 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

Instrument :

BNA_F

ClientSampleId :

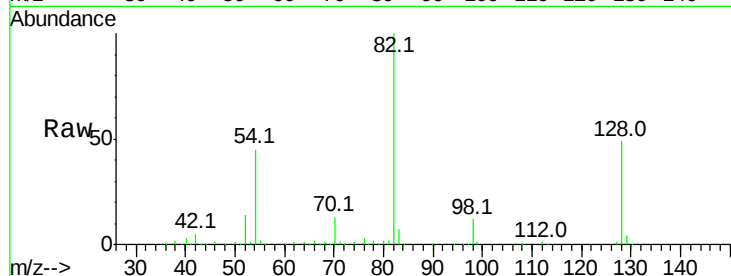
Tot Ion: 82 Resp: 519716

Ion Ratio Lower Upper

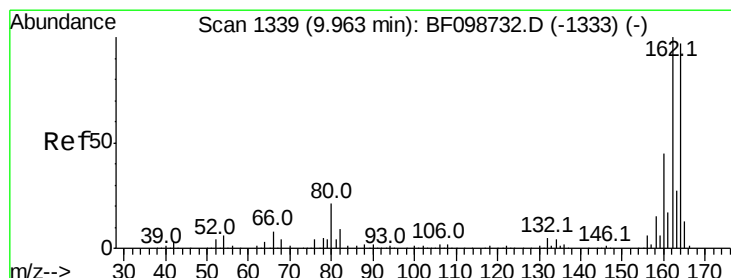
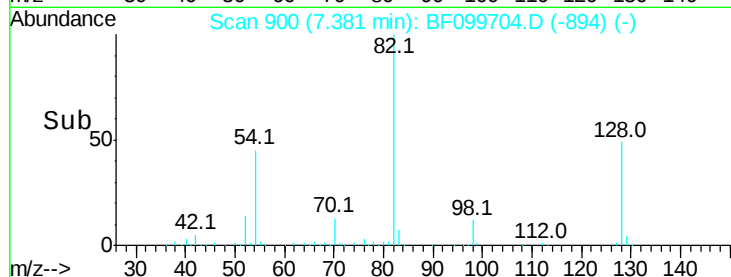
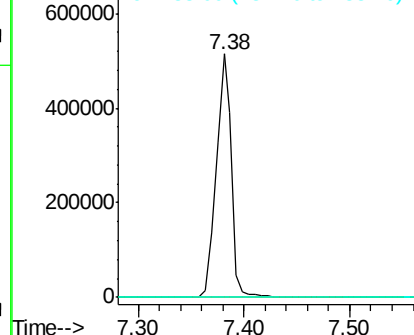
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

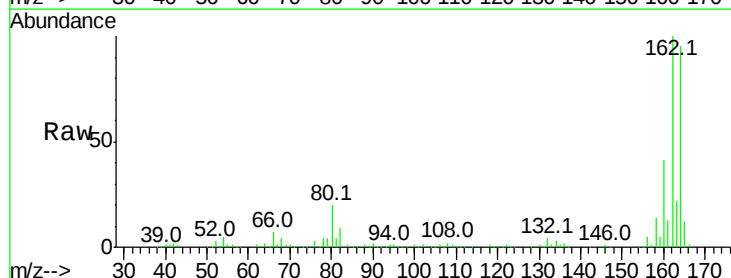
Tgt Ion:164 Resp: 170869

Ion Ratio Lower Upper

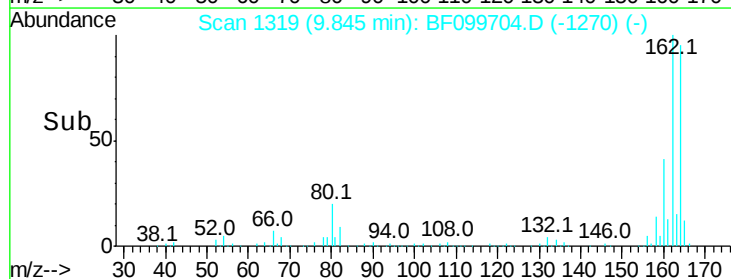
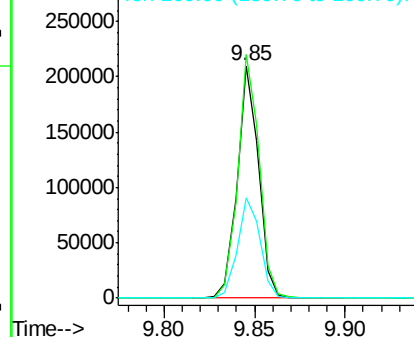
164 100

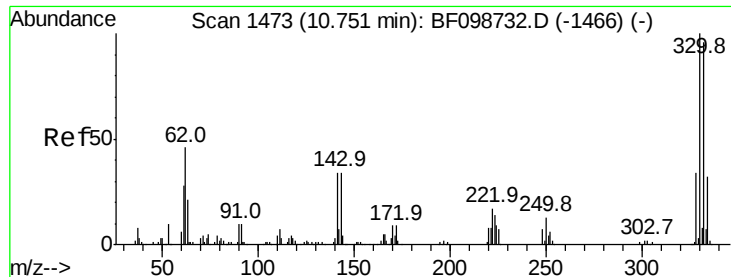
162 104.9 86.1 129.1

160 43.2 38.3 57.5



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

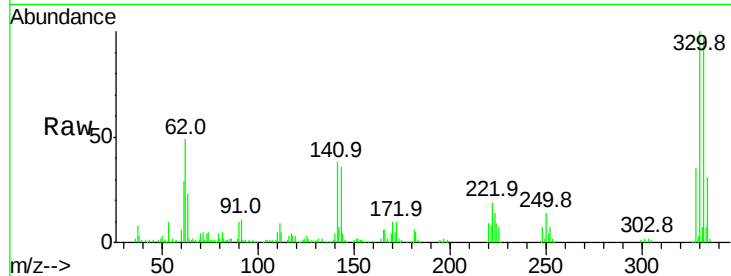




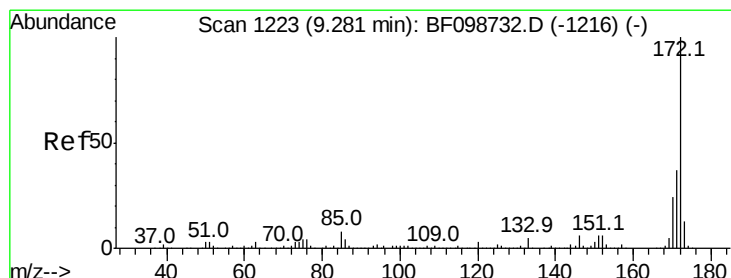
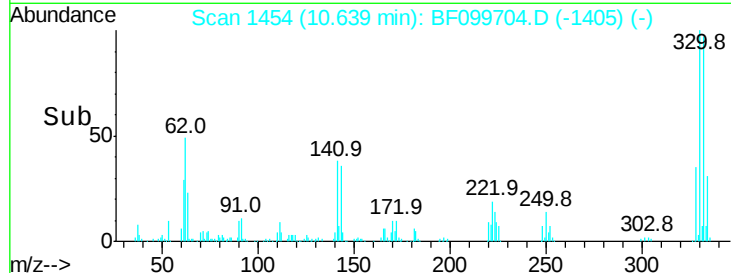
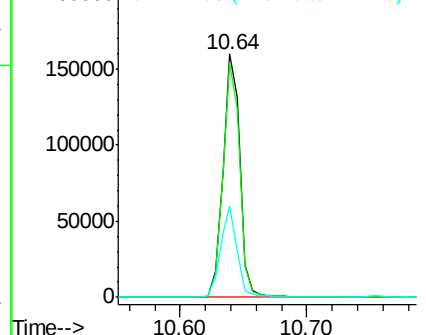
#41
 2,4,6-Tribromophenol
 Concen: 107.201 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF099704.D
 Acq: 20 Oct 2017 16:47

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.0	115.6
141	37.1	29.9	44.9

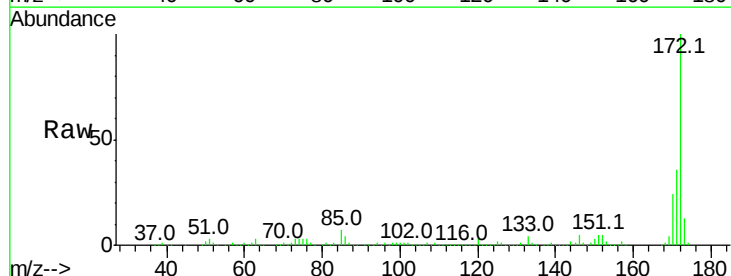


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

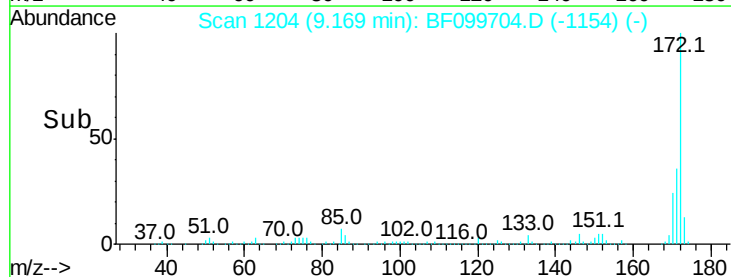
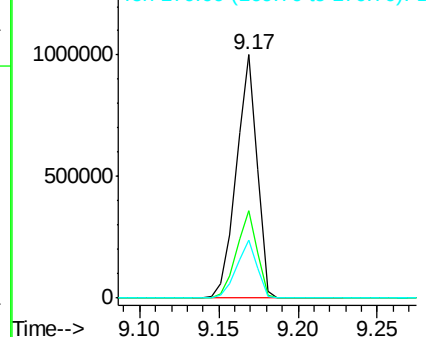


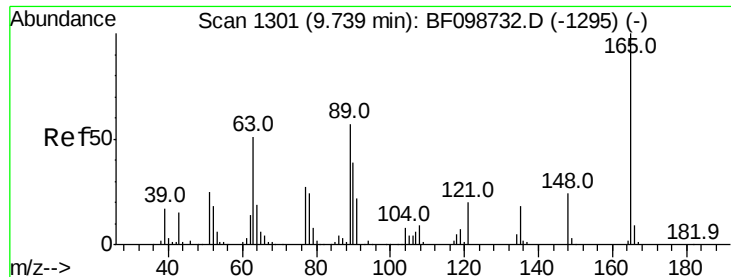
#44
 2-Fluorobiphenyl
 Concen: 88.793 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF099704.D
 Acq: 20 Oct 2017 16:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.7	44.5
170	24.0	19.6	29.4



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





#50

2,6-Dinitrotoluene

Concen: 7.971 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.19 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

Instrument :

BNA_F

ClientSampleId :

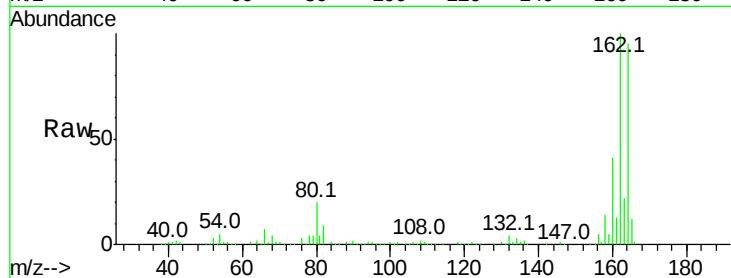
Tot Ion:165 Resp: 22380

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

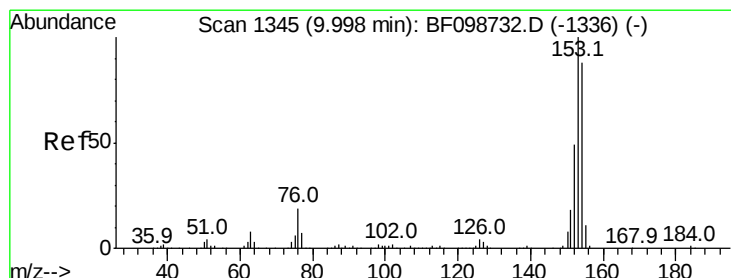
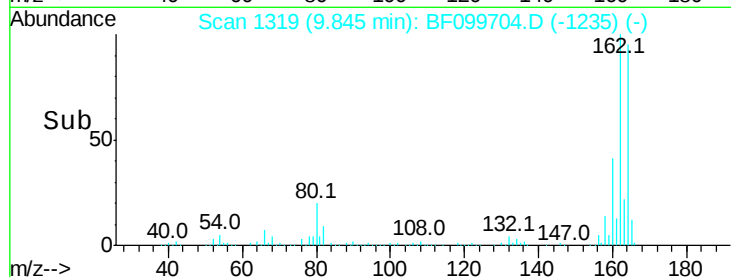
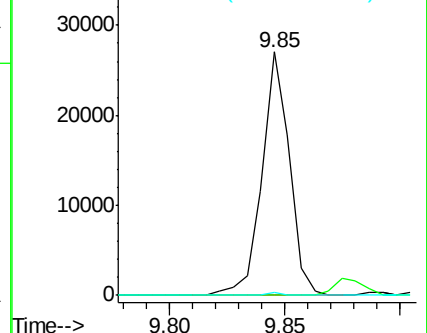
89 1.4 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51

Acenaphthene

Concen: 2.091 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

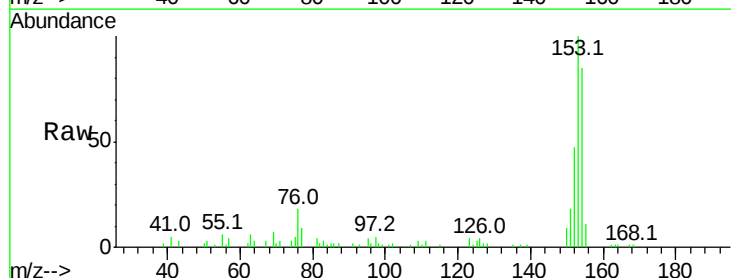
Tgt Ion:154 Resp: 22362

Ion Ratio Lower Upper

154 100

153 117.1 91.2 136.8

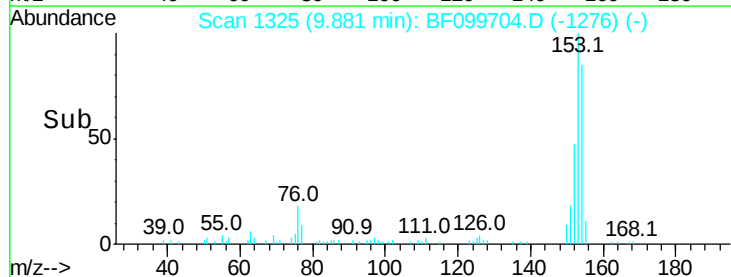
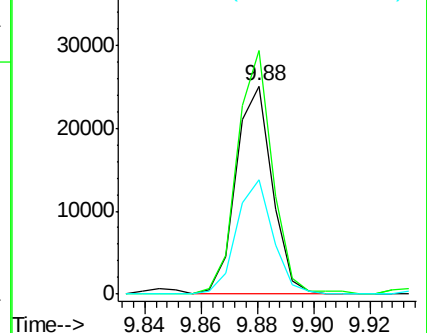
152 54.7 43.8 65.8

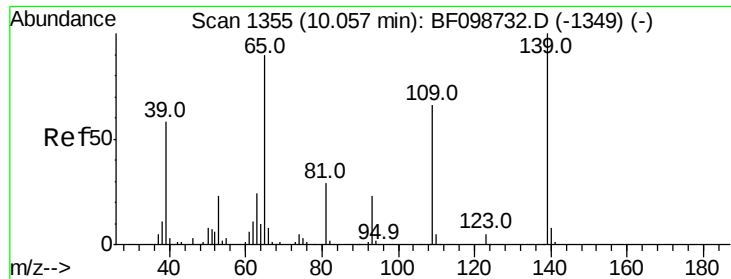


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#55

4-Nitrophenol

Concen: 2.719 ng

RT: 10.05 min Scan# 1354

Delta R.T. 0.05 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

Instrument :

BNA_F

ClientSampleId :

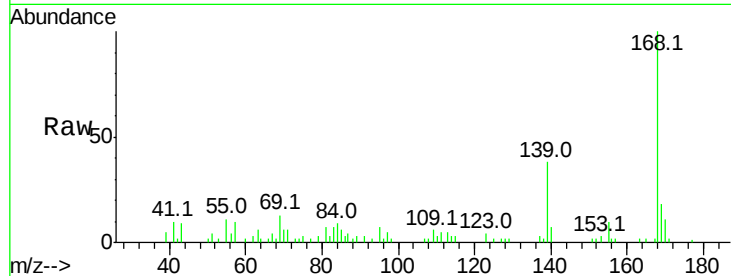
Tot Ion:139 Resp: 7526

Ion Ratio Lower Upper

139 100

109 14.8 48.4 88.4#

65 0.0 72.6 112.6#

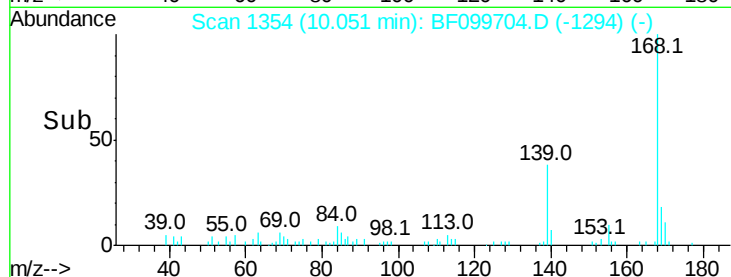


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): E

Time-->



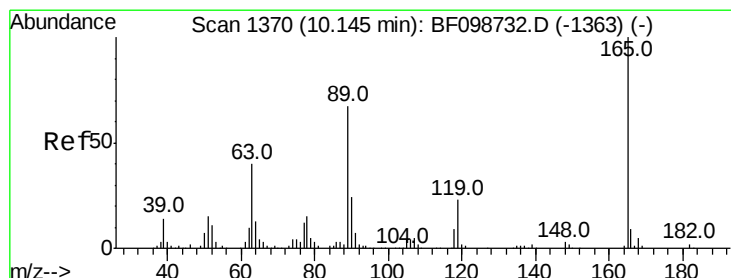
Abundance

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): E

Time-->



#56

2,4-Dinitrotoluene

Concen: 6.142 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.21 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

Tgt Ion:165 Resp: 22380

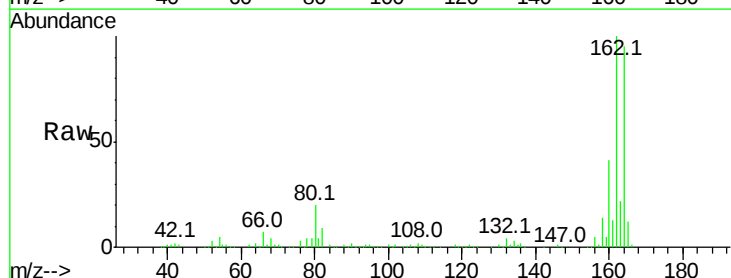
Ion Ratio Lower Upper

165 100

63 0.0 36.4 54.6#

89 1.4 57.8 86.6#

182 0.0 1.6 2.4#



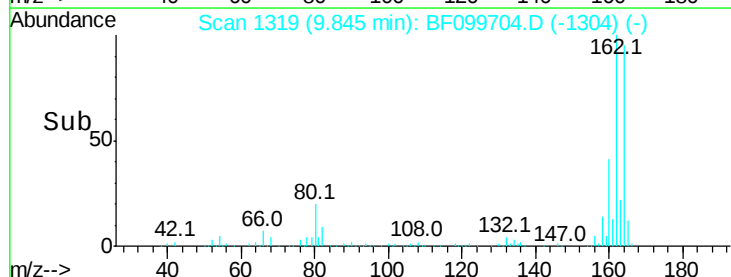
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): E

Ion 89.00 (88.70 to 89.70): E

Ion 182.00 (181.70 to 182.70): E

Time-->



Abundance

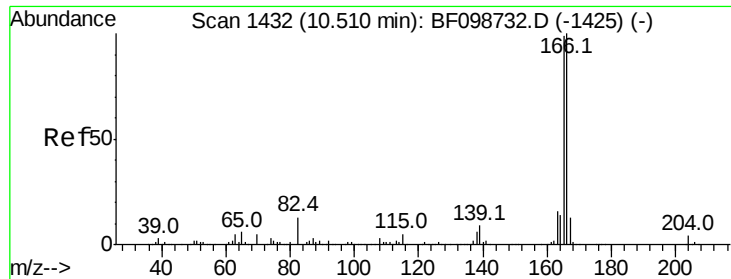
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): E

Ion 89.00 (88.70 to 89.70): E

Ion 182.00 (181.70 to 182.70): E

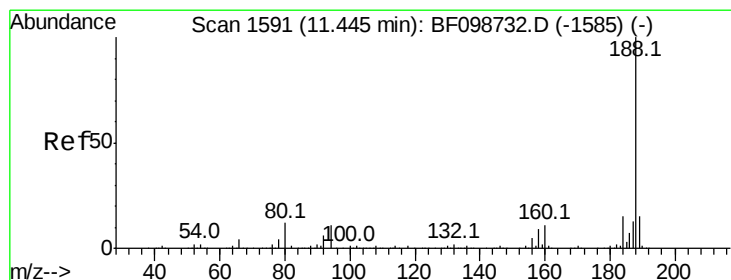
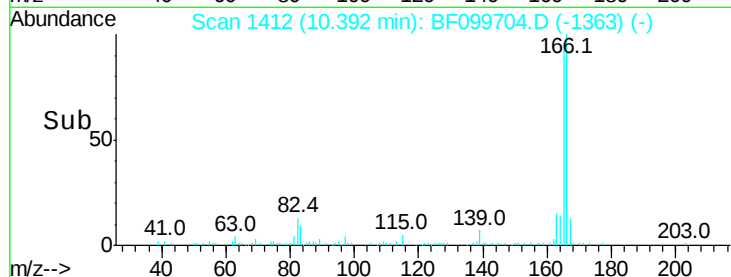
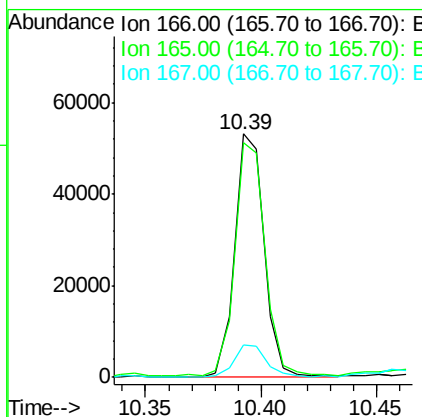
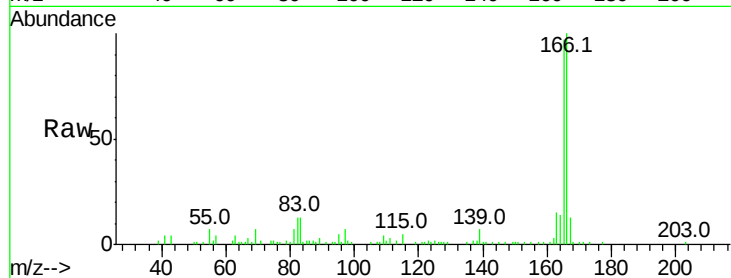
Time-->



#57
Fluorene
 Concen: 4.145 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF099704.D
 Acq: 20 Oct 2017 16:47

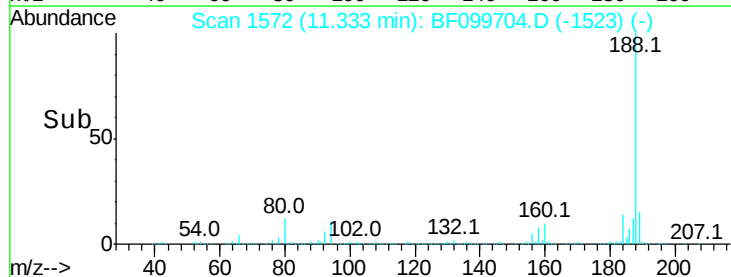
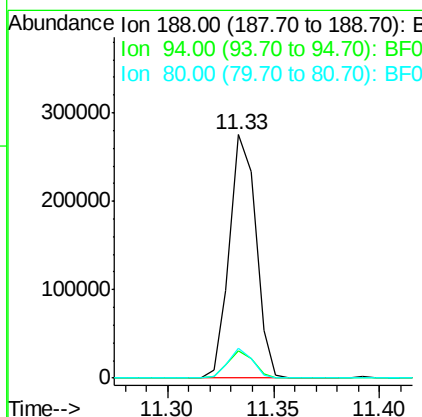
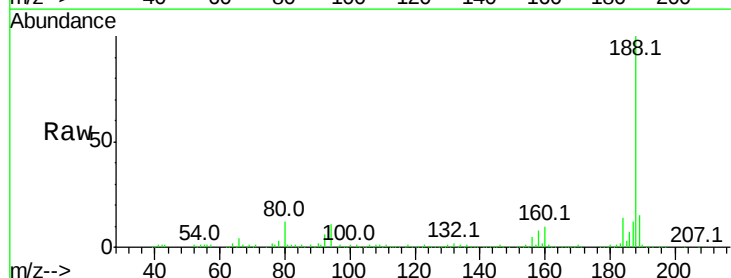
Instrument :
 BNA_F
 ClientSampleId :

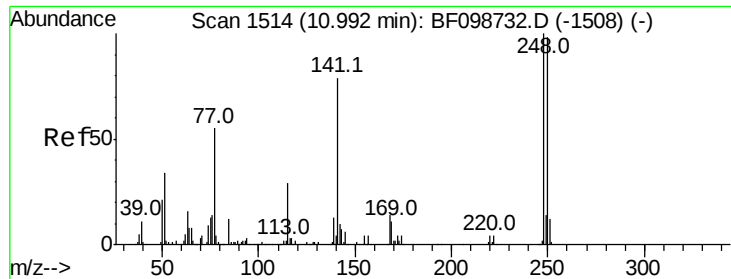
Tot Ion:166 Resp: 47433
 Ion Ratio Lower Upper
 166 100
 165 96.6 79.8 119.8
 167 13.2 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF099704.D
 Acq: 20 Oct 2017 16:47

Tgt Ion:188 Resp: 239128
 Ion Ratio Lower Upper
 188 100
 94 11.1 8.5 12.7
 80 12.2 9.2 13.8

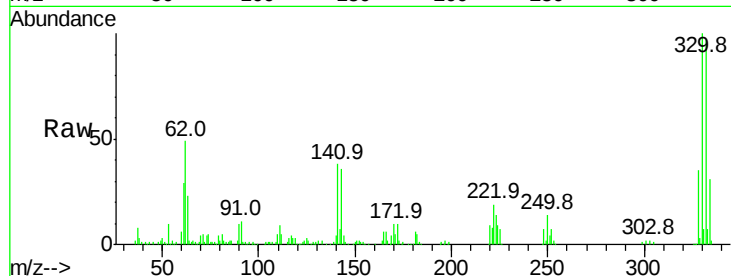




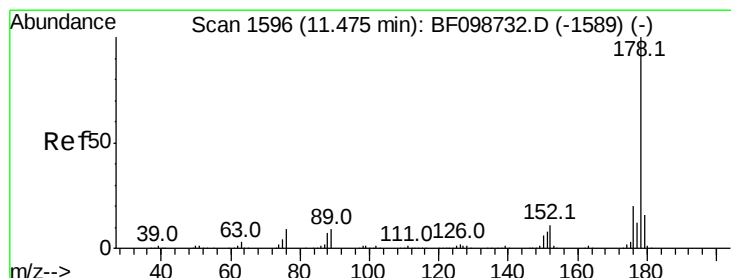
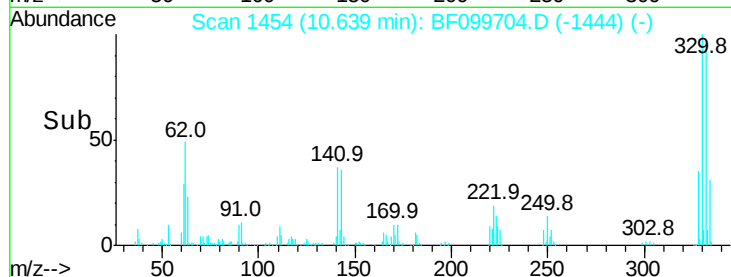
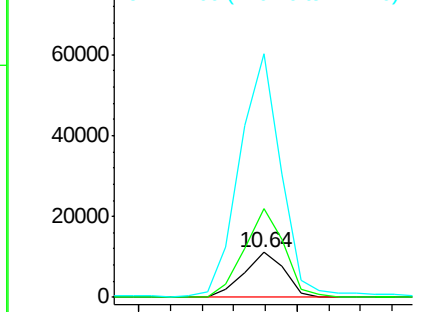
#66
 4-Bromophenyl-phenylether
 Concen: 4.230 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.24 min
 Lab File: BF099704.D
 Acq: 20 Oct 2017 16:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 9902
 Ion Ratio Lower Upper
 248 100
 250 198.0 76.9 115.3#
 141 541.1 74.4 111.6#

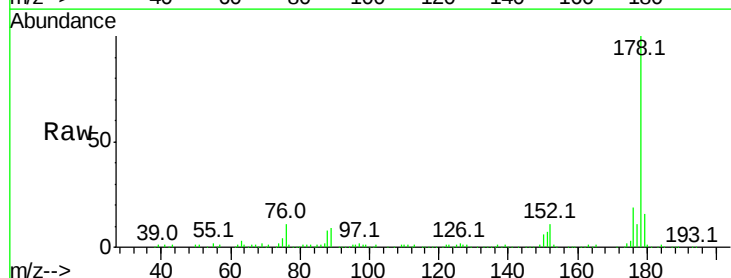


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

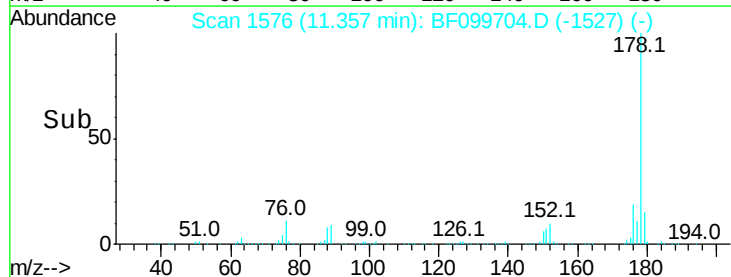
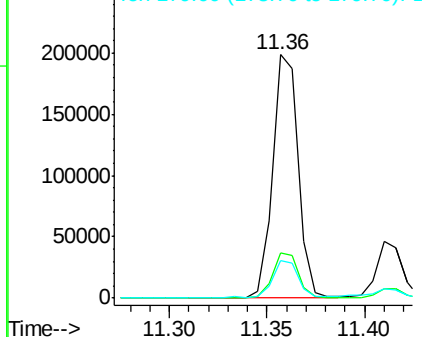


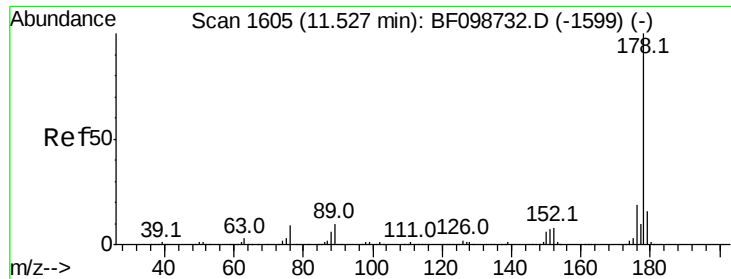
#70
 Phenanthrene
 Concen: 14.091 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF099704.D
 Acq: 20 Oct 2017 16:47

Tgt Ion:178 Resp: 180360
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.8 23.8
 179 15.5 13.0 19.6



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: 3.132 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

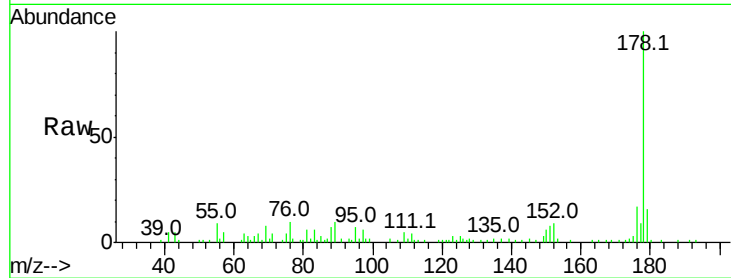
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 41021

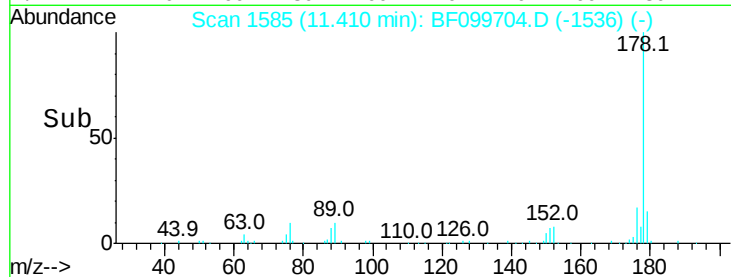
Ion	Ratio	Lower	Upper
178	100		
176	16.9	15.4	23.2
179	16.0	12.6	19.0



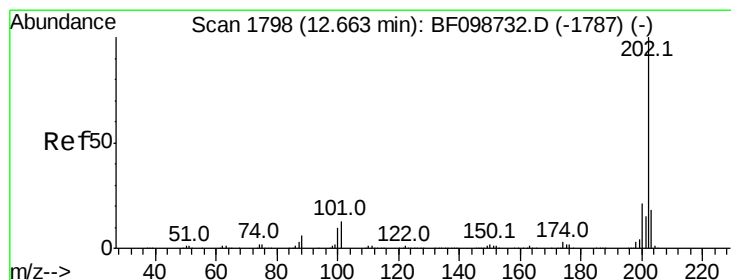
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#74

Fluoranthene

Concen: 26.651 ng

RT: 12.55 min Scan# 1779

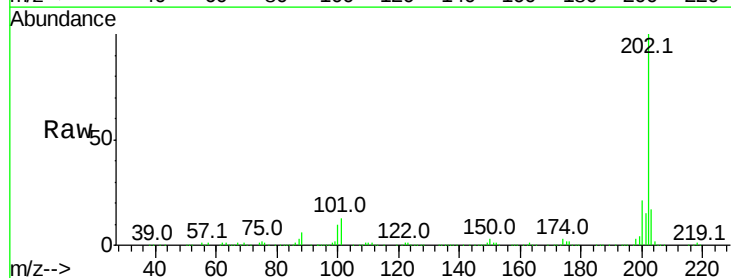
Delta R.T. -0.01 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

Tgt Ion:202 Resp: 345437

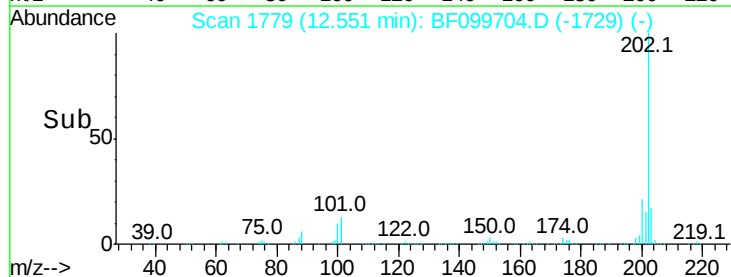
Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	34.1
203	17.5	0.0	38.1



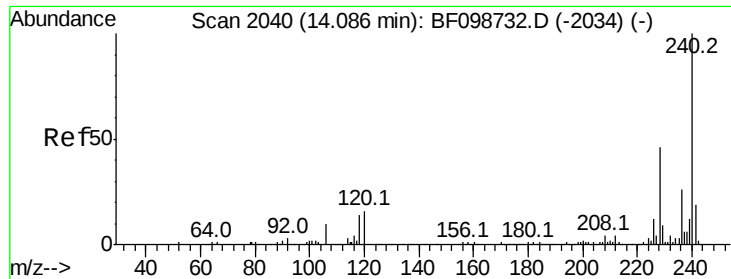
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



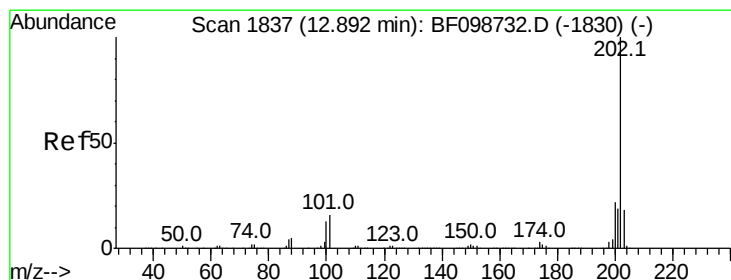
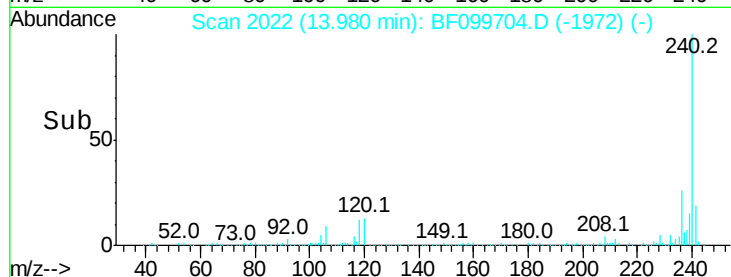
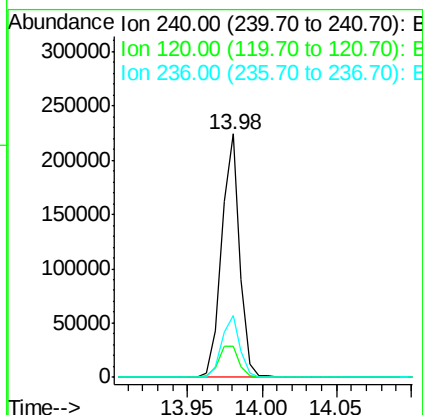
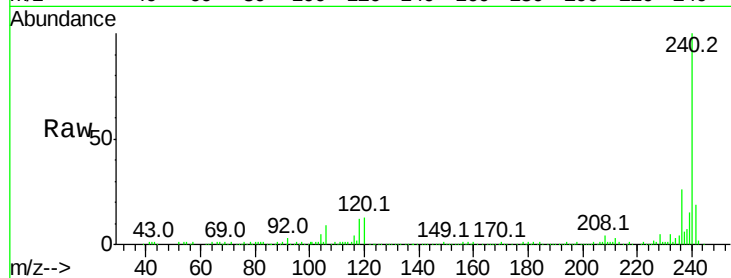
Time-->



#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

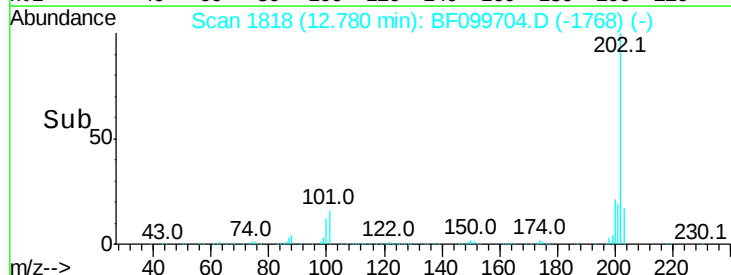
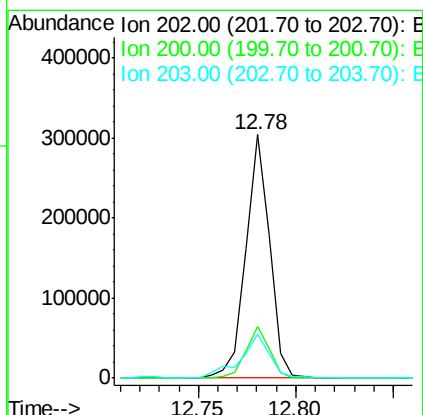
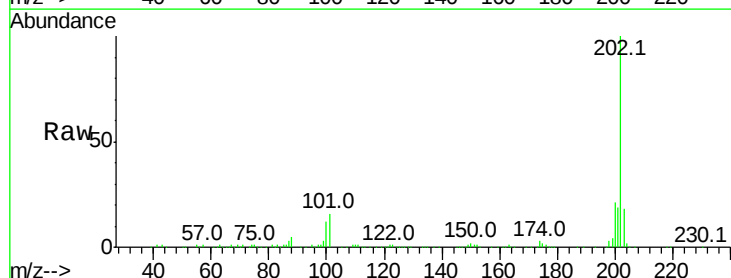
Instrument :
BNA_F
ClientSampleId :

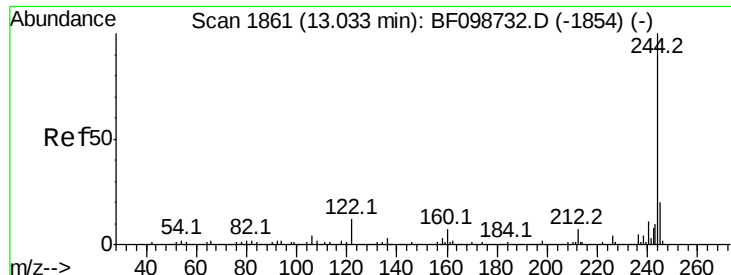
Tot Ion:240 Resp: 190973
Ion Ratio Lower Upper
240 100
120 13.0 9.5 14.3
236 25.6 20.7 31.1



#77
Pyrene
Concen: 17.772 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Tgt Ion:202 Resp: 258798
Ion Ratio Lower Upper
202 100
200 21.0 17.4 26.2
203 17.8 14.3 21.5





#78

Terphenyl-d14

Concen: 67.392 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

Instrument :

BNA_F

ClientSampleId :

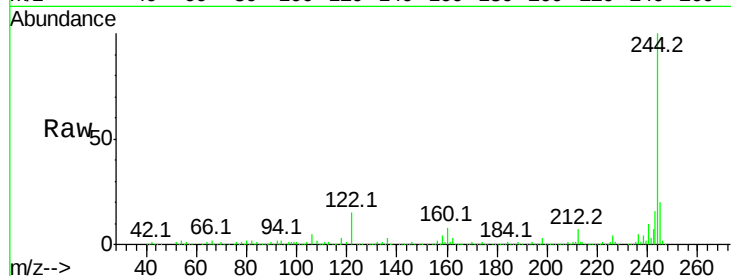
Tot Ion:244 Resp: 565913

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

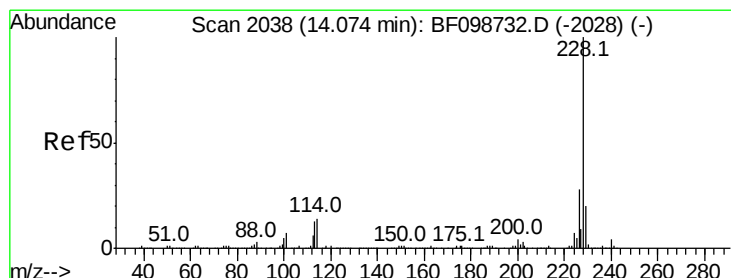
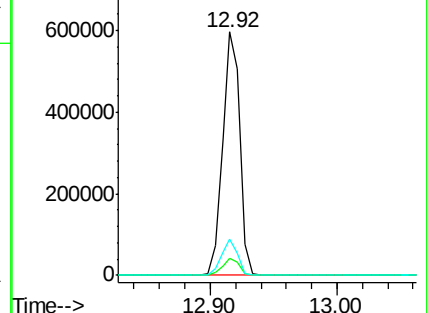
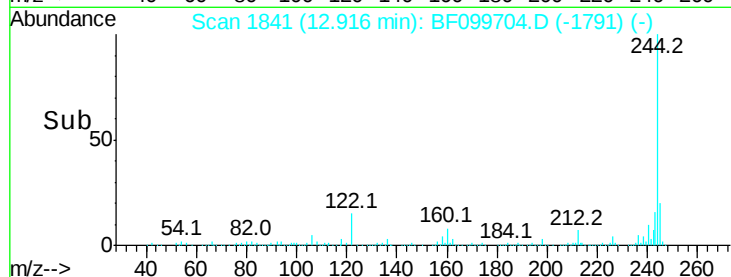
122 14.6 11.0 16.4



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: 6.198 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

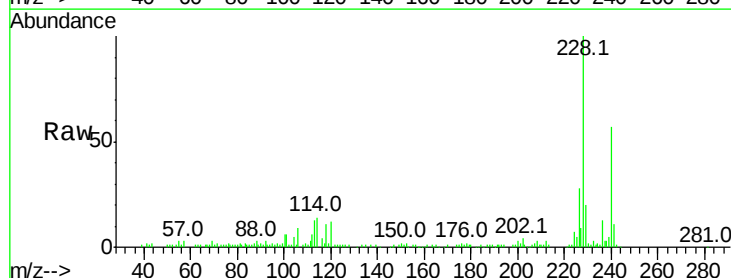
Tgt Ion:228 Resp: 71671

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

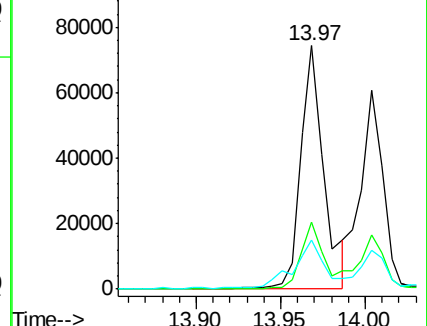
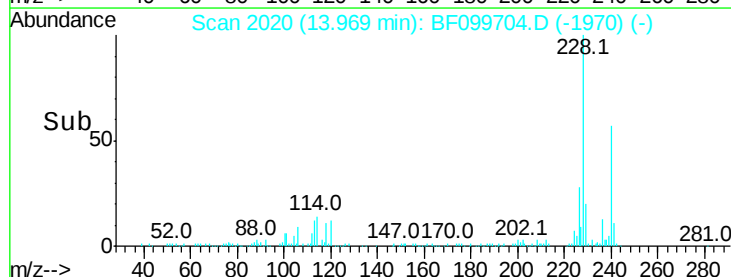
229 20.4 15.8 23.6

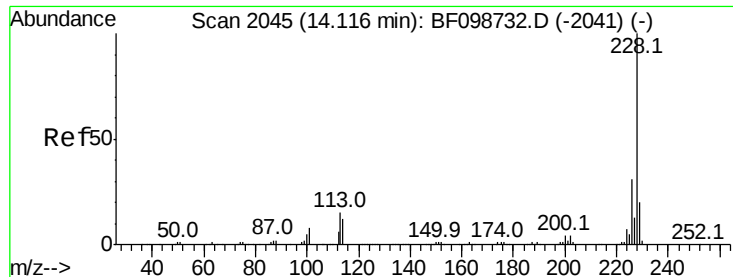


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

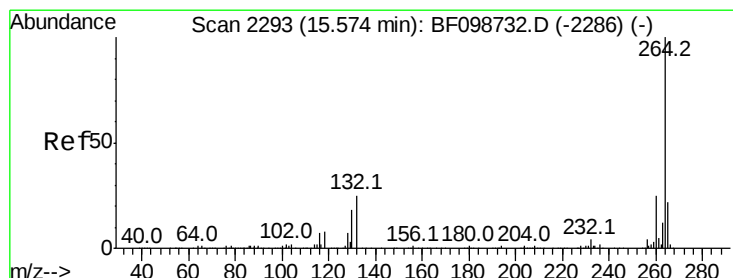
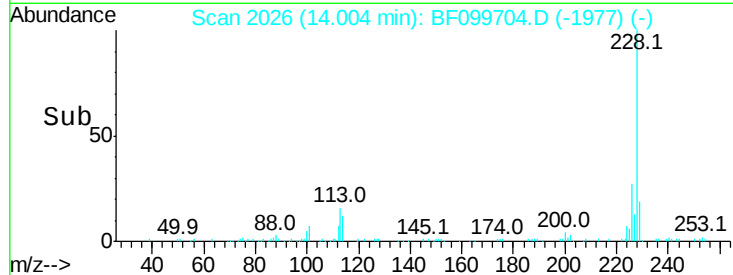
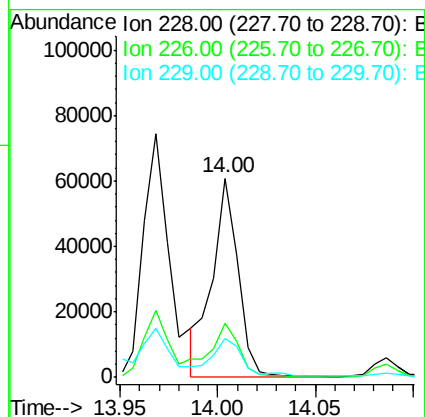
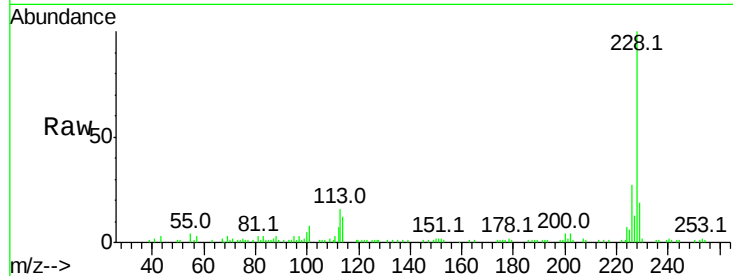




#82
Chrysene
Concen: 5.159 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

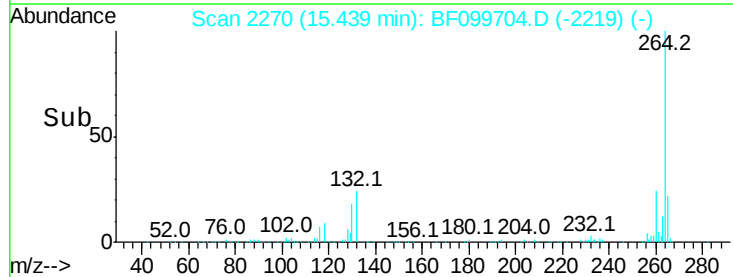
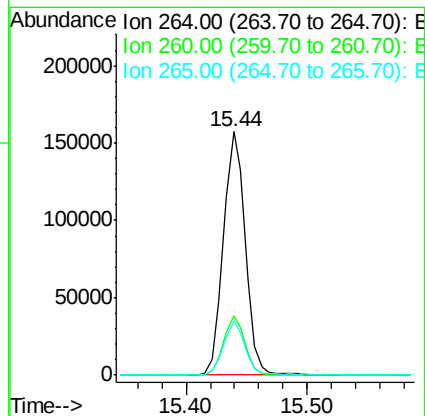
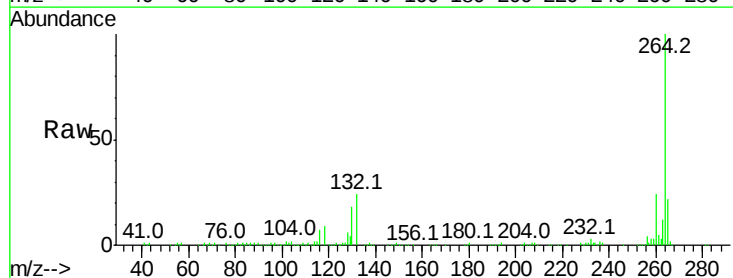
Instrument :
BNA_F
ClientSampled :

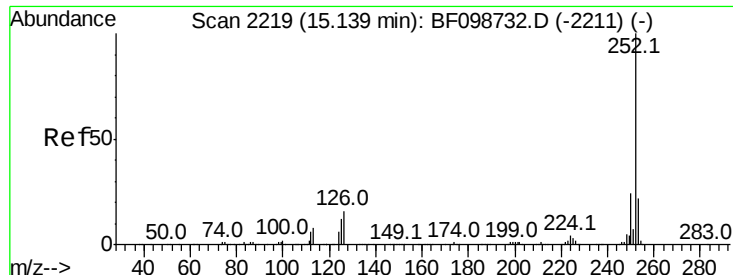
Tot Ion:228 Resp: 56794
Ion Ratio Lower Upper
228 100
226 27.5 25.0 37.6
229 19.4 16.2 24.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.00 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Tgt Ion:264 Resp: 196793
Ion Ratio Lower Upper
264 100
260 24.5 19.2 28.8
265 22.0 17.5 26.3

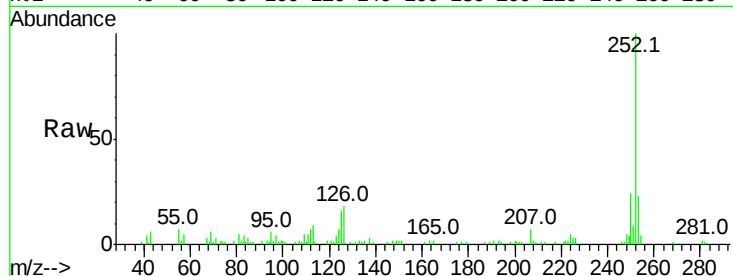




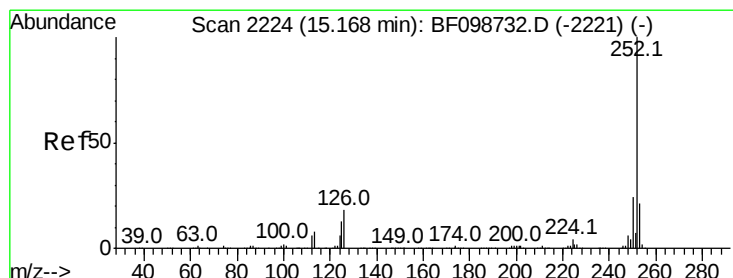
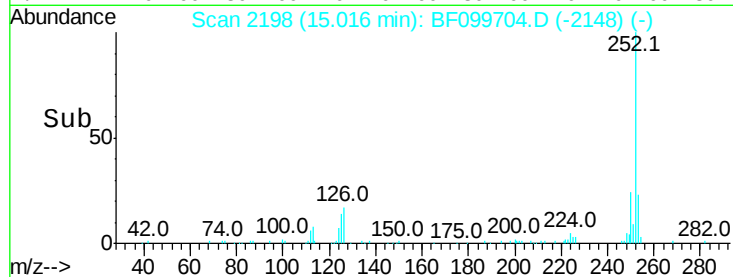
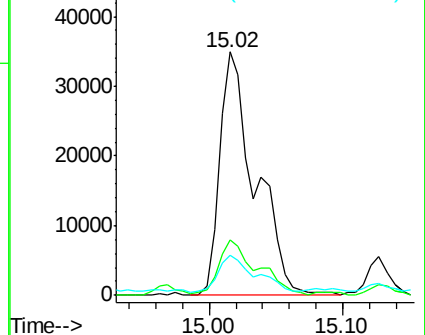
#87
Benzo(b)fluoranthene
Concen: 5.371 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.01 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	16.3	9.0	13.6

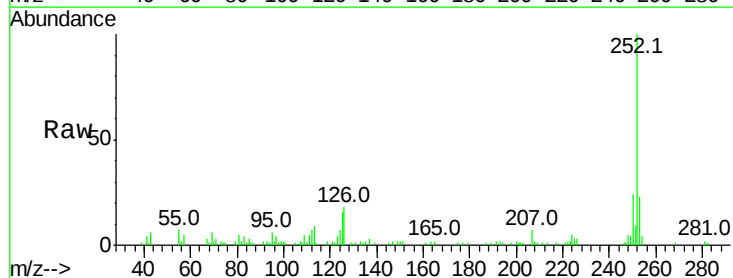


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

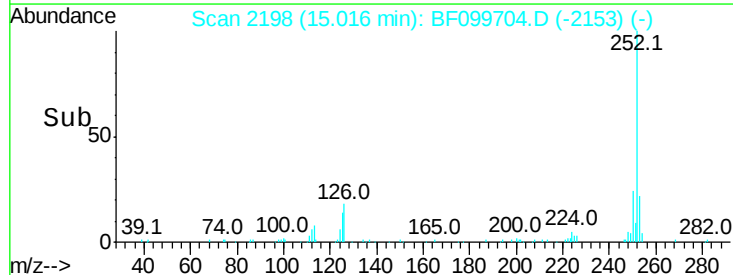
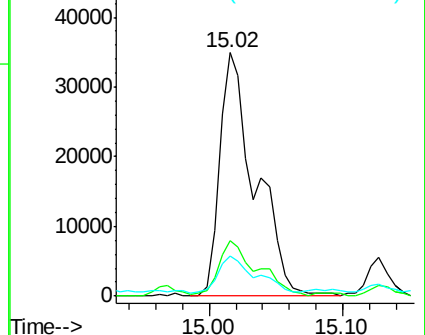


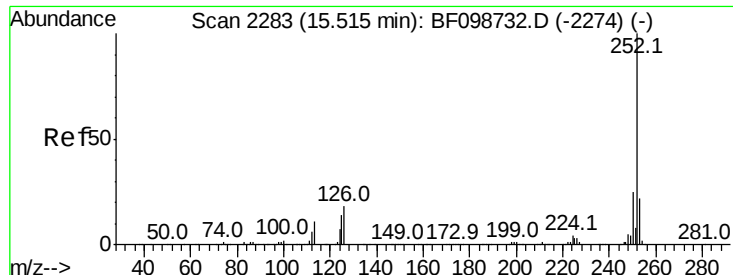
#88
Benzo(k)fluoranthene
Concen: 5.438 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.04 min
Lab File: BF099704.D
Acq: 20 Oct 2017 16:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	16.3	10.2	15.2



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: 2.193 ng

RT: 15.38 min Scan# 2260

Delta R.T. -0.01 min

Lab File: BF099704.D

Acq: 20 Oct 2017 16:47

Instrument :

BNA_F

ClientSampleId :

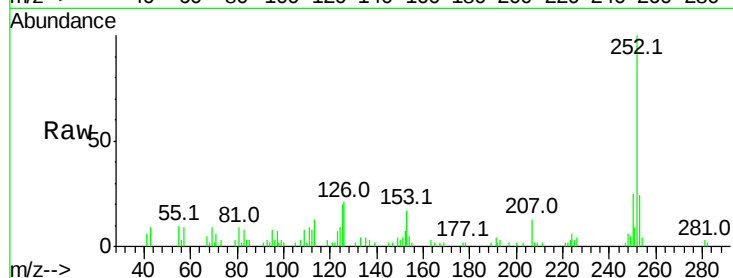
Tot Ion:252 Resp: 24354

Ion Ratio Lower Upper

252 100

253 24.4 17.1 25.7

125 19.6 9.8 14.6



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

