

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
 Data File : BF107817.D
 Acq On : 30 Jul 2018 23:00
 Operator : JU/SJ
 Sample : J4164-06
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 31 01:05:32 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	189270	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	742597	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	291016	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	495719	20.00	ng	0.00
75) Chrysene-d12	14.15	240	484908	20.00	ng	0.00
86) Perylene-d12	15.68	264	500921	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.60	112	1104415	99.17	ng	0.00
7) Phenol-d6	6.60	99	1321175	90.02	ng	0.00
23) Nitrobenzene-d5	7.52	82	920449	71.41	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	290553	73.48	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	1365570	65.39	ng	0.00
78) Terphenyl-d14	13.08	244	1059764	47.39	ng	0.00

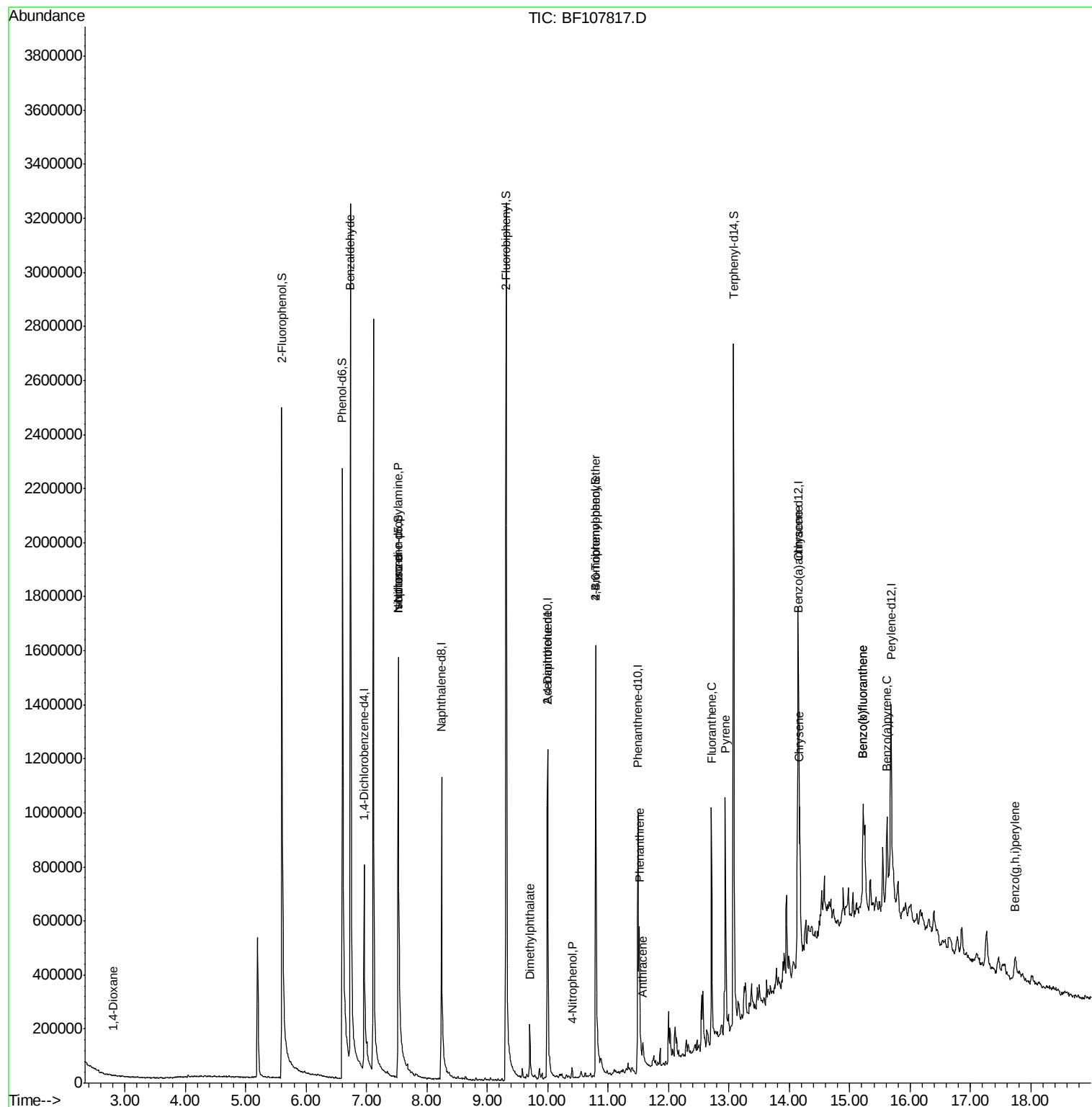
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.80	88	430	5.866	ng	# 1
9) Benzaldehyde	6.74	77	24670	2.786	ng	88
19) n-Nitroso-di-n-propylamine	7.52	70	110834	11.904	ng	# 80
25) Isophorone	7.52	82	923919	43.666	ng	# 64
49) Dimethylphthalate	9.71	163	100131	4.582	ng	99
55) 4-Nitrophenol	10.40	139	164	9.364	ng	85
56) 2,4-Dinitrotoluene	10.00	165	35985	5.764	ng	# 24
66) 4-Bromophenyl-phenylether	10.80	248	17232	2.982	ng	# 1
70) Phenanthrene	11.52	178	215450	9.153	ng	99
71) Anthracene	11.58	178	68486	2.523	ng	98
74) Fluoranthene	12.71	202	437986	15.839	ng	98
77) Pvrene	12.94	202	454114	13.005	ng	96
80) Benzo(a)anthracene	14.14	228	255243	9.292	ng	96
82) Chrysene	14.17	228	270407	9.127	ng	97
87) Benzo(b)fluoranthene	15.22	252	406353	16.448	ng	96
88) Benzo(k)fluoranthene	15.22	252	406353	13.397	ng	99
89) Benzo(a)pvrene	15.62	252	222946	8.741	ng	95
91) Benzo(g,h,i)perylene	17.74	276	106145	4.931	ng	96

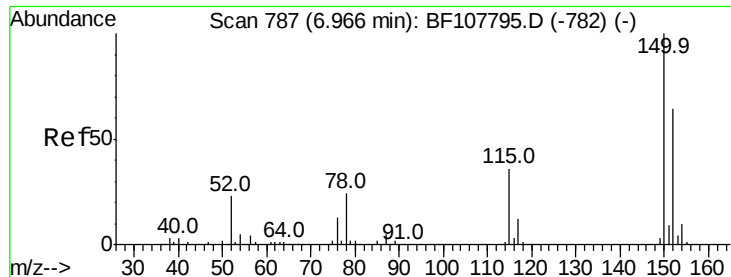
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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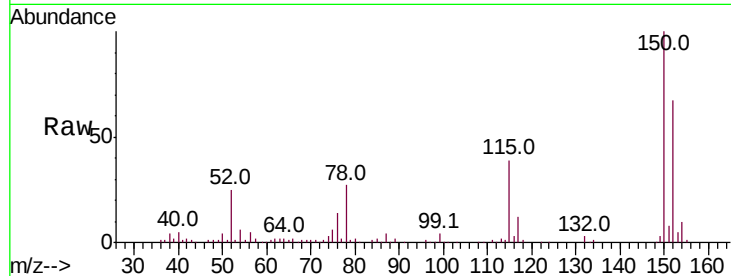


#1

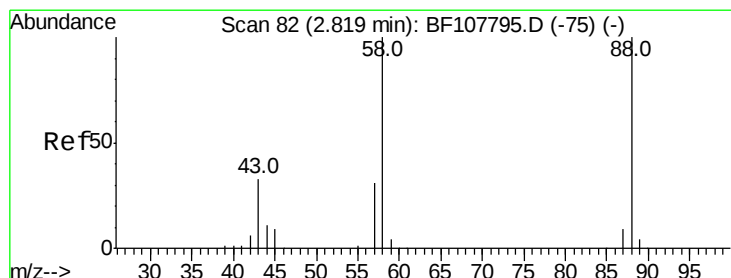
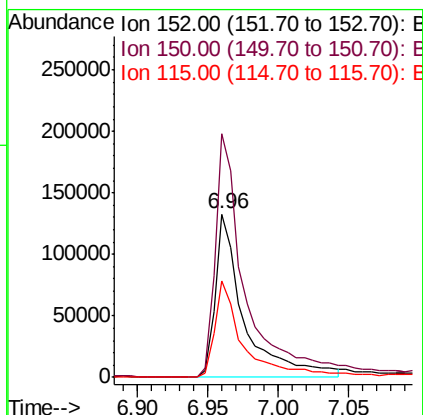
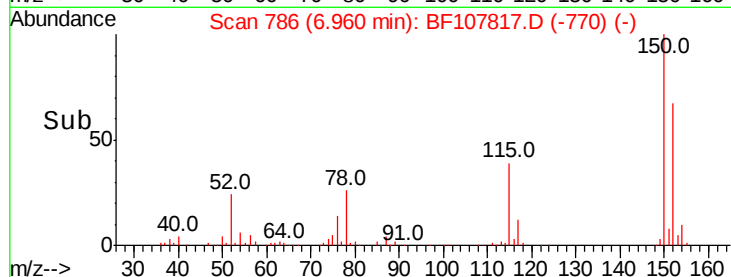
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF107817.D
Acq: 30 Jul 2018 23:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 189270
Ion Ratio Lower Upper
152 100
150 149.1 124.6 186.8
115 58.9 50.1 75.1



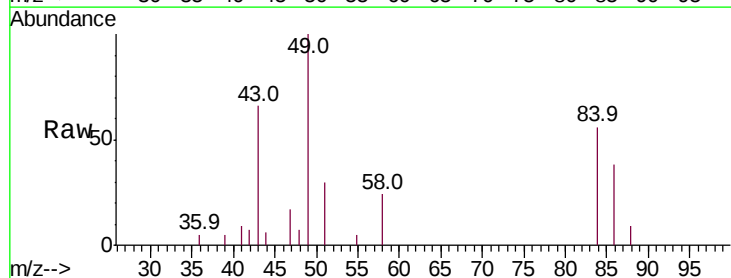
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



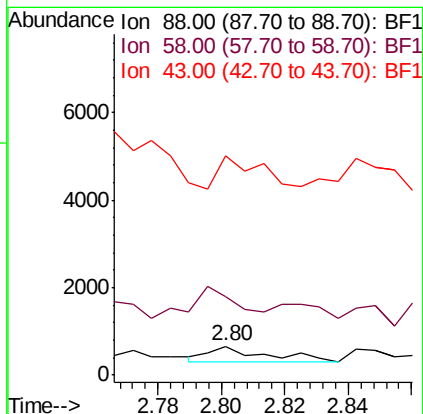
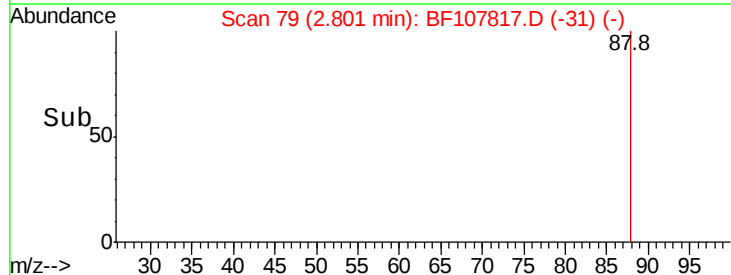
#2

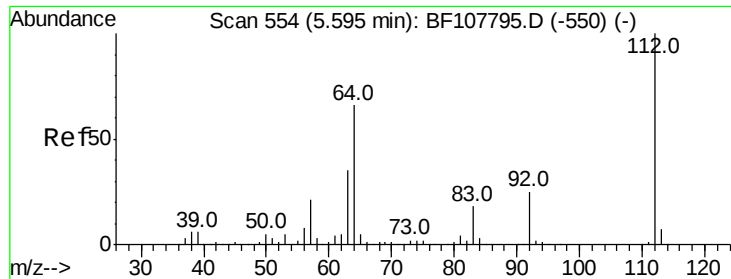
1,4-Dioxane
Concen: 5.866 ng
RT: 2.80 min Scan# 79
Delta R.T. -0.02 min
Lab File: BF107817.D
Acq: 30 Jul 2018 23:00

Tgt Ion: 88 Resp: 430
Ion Ratio Lower Upper
88 100
58 176.7 62.6 93.8#
43 168.6 24.6 37.0#



Abundance Ion 88.00 (87.70 to 88.70): BF1
Ion 58.00 (57.70 to 58.70): BF1
Ion 43.00 (42.70 to 43.70): BF1





#5

2-Fluorophenol

Concen: 99.171 ng

RT: 5.60 min Scan# 555

Delta R.T. 0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :
BNA_F
ClientSampled :

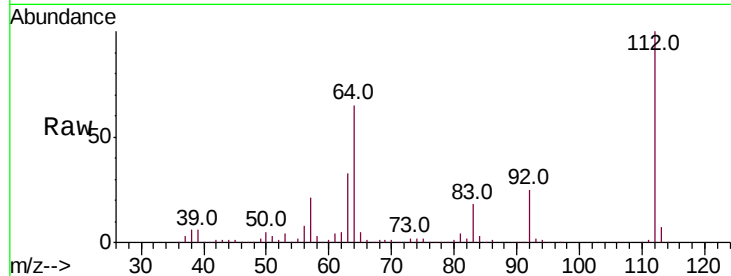
Tot Ion:112 Resp: 1104415

Ion Ratio Lower Upper

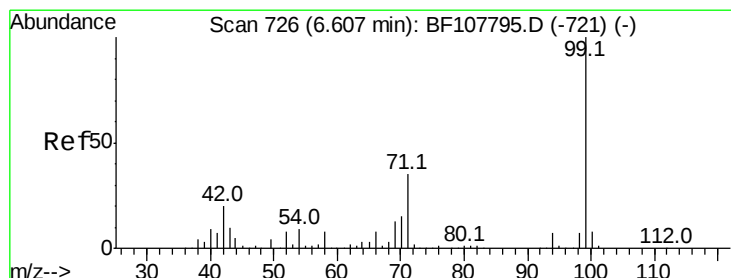
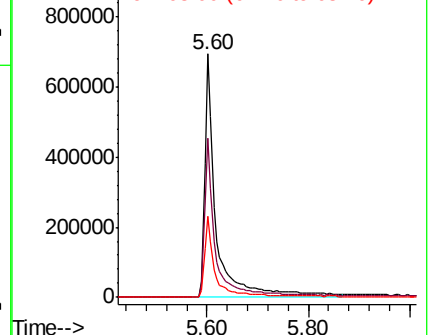
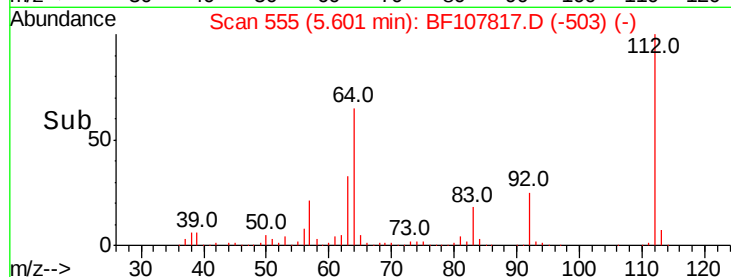
112 100

64 65.3 47.9 71.9

63 33.1 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): BF1
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1



#7

Phenol-d6

Concen: 90.015 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

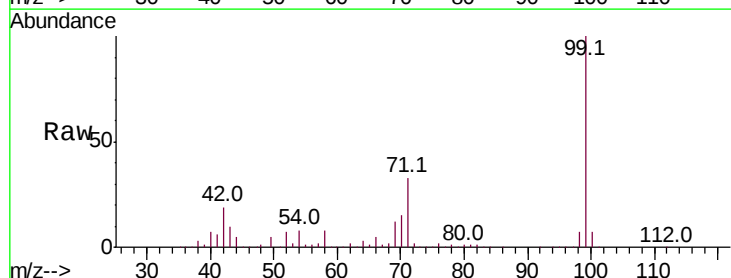
Tgt Ion: 99 Resp: 1321175

Ion Ratio Lower Upper

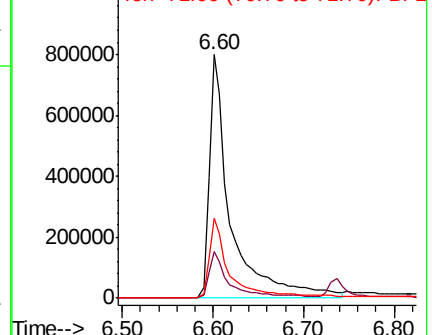
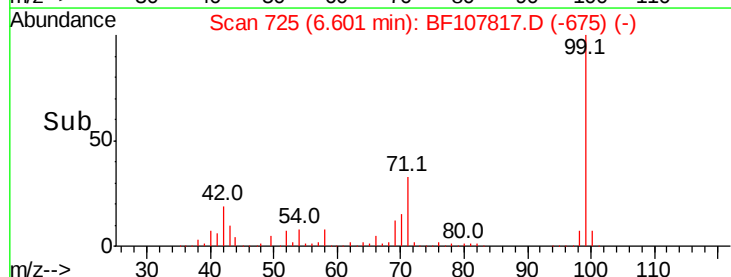
99 100

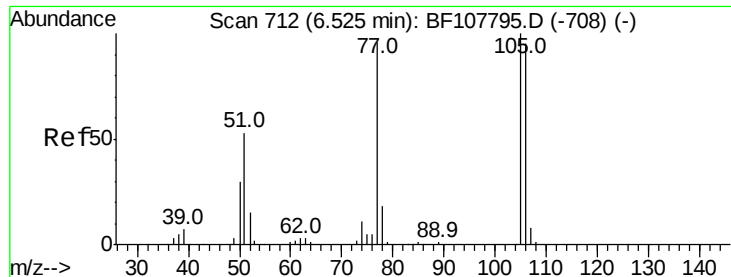
42 19.3 14.5 21.7

71 32.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1





#9

Benzaldehyde

Concen: 2.786 ng

RT: 6.74 min Scan# 748

Delta R.T. 0.21 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :

BNA_F

ClientSampled :

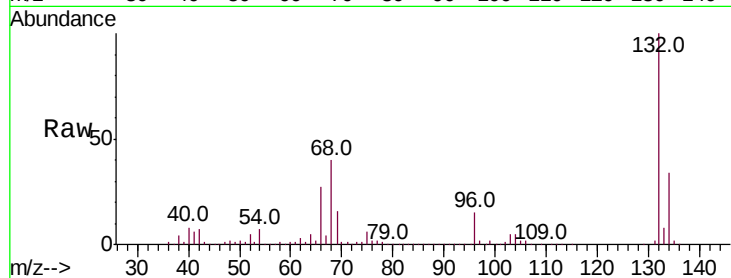
Tot Ion: 77 Resp: 24670

Ion Ratio Lower Upper

77 100

105 89.8 81.1 121.1

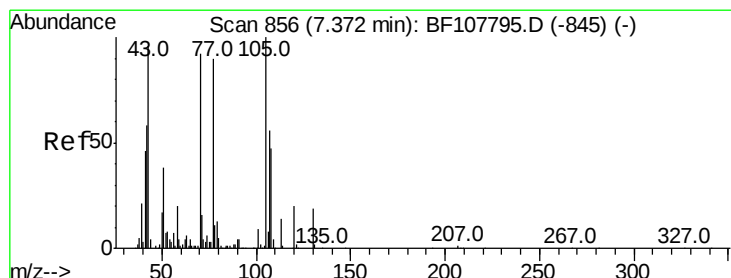
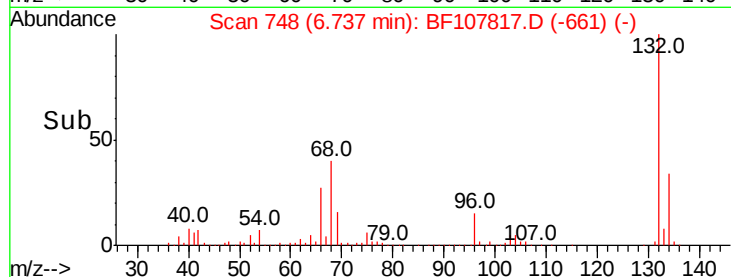
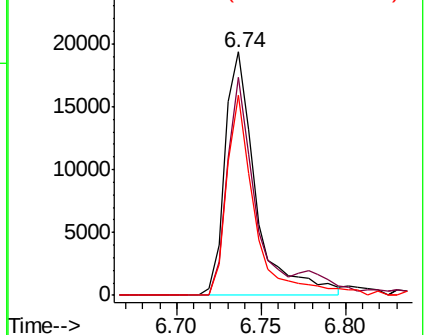
106 82.1 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.904 ng

RT: 7.52 min Scan# 882

Delta R.T. 0.15 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Tgt Ion: 70 Resp: 110834

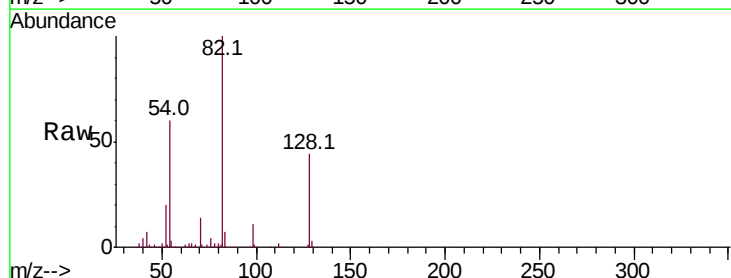
Ion Ratio Lower Upper

70 100

42 49.9 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#

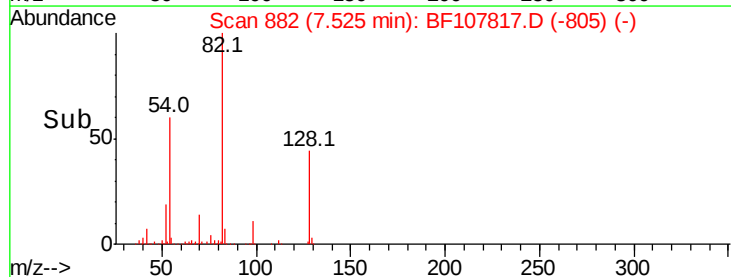
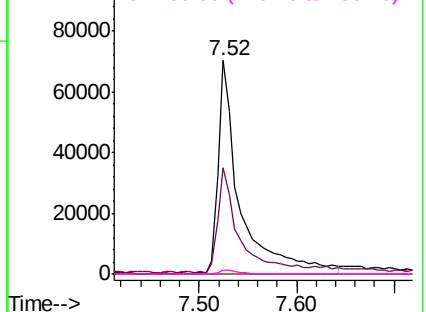


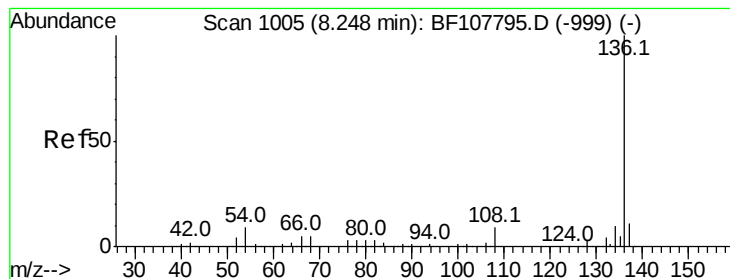
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 742597

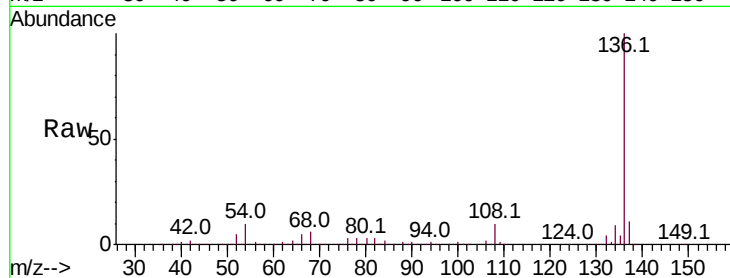
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 9.8 6.6 9.8

68 5.8 5.0 7.4

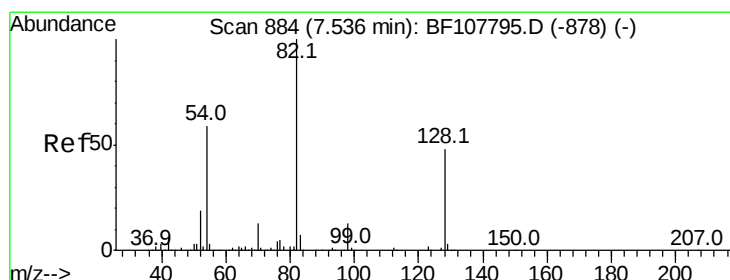
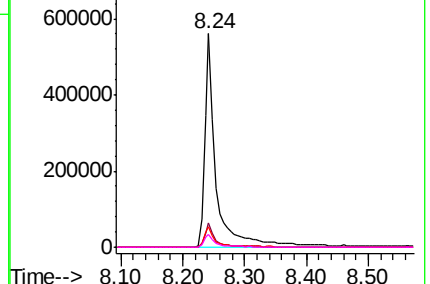
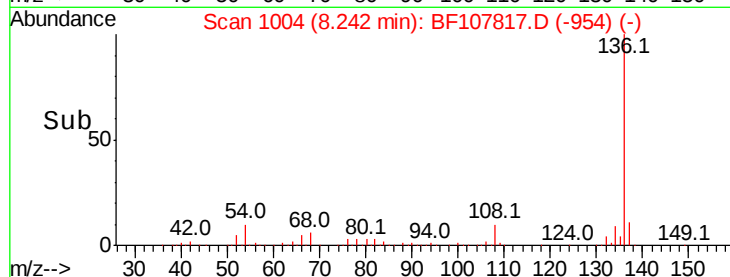


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 71.408 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

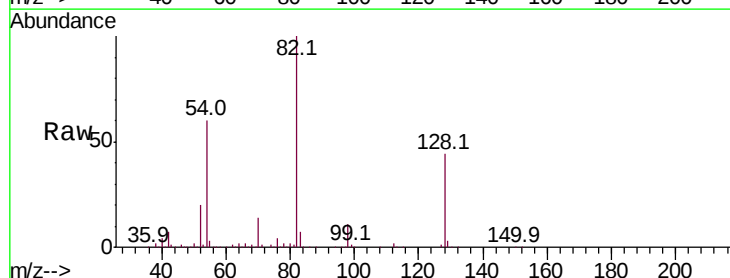
Tgt Ion: 82 Resp: 920449

Ion Ratio Lower Upper

82 100

128 44.0 36.1 54.1

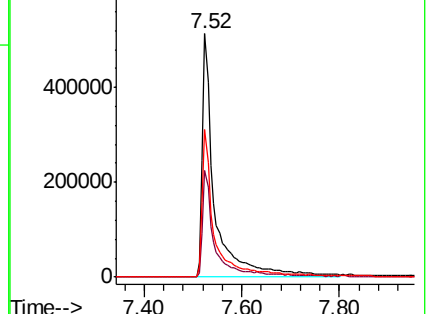
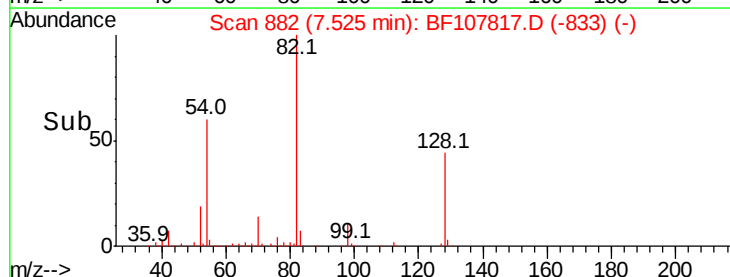
54 60.4 41.4 62.2

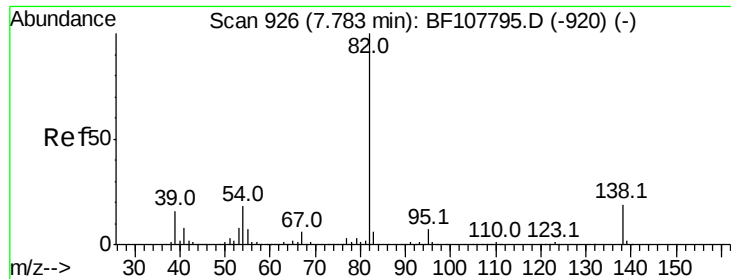


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

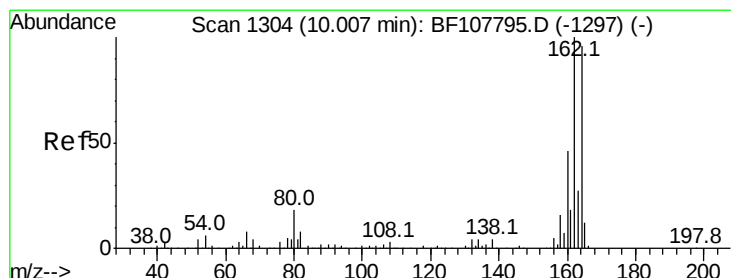
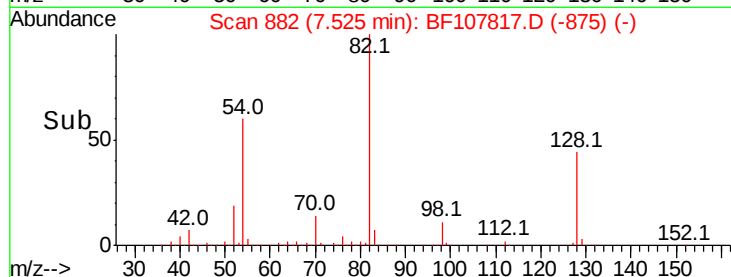
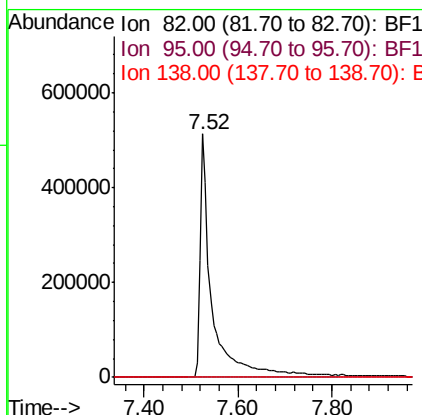
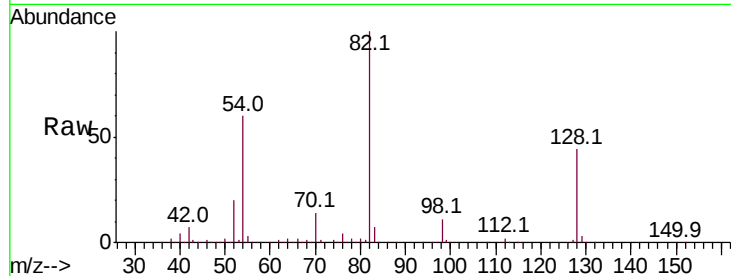




#25
Isophorone
Concen: 43.666 ng
RT: 7.52 min Scan# 882
Delta R.T. -0.26 min
Lab File: BF107817.D
Acq: 30 Jul 2018 23:00

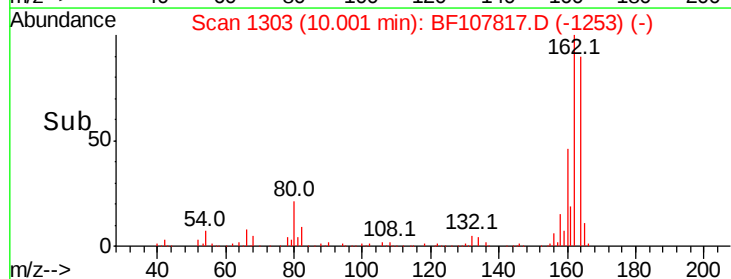
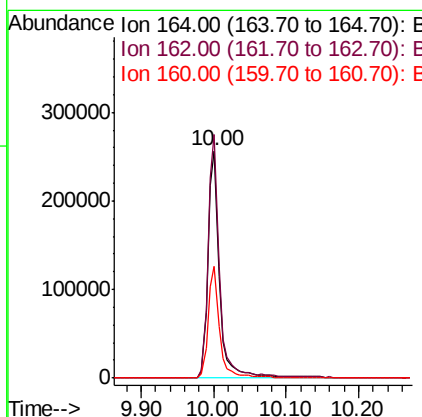
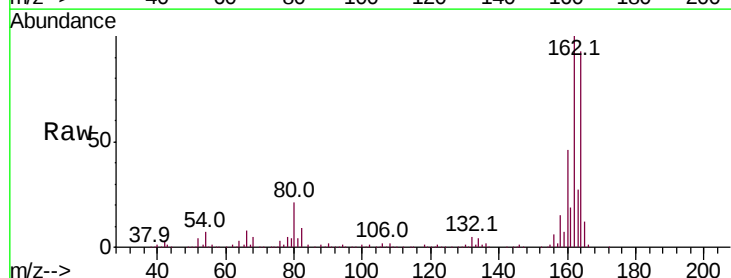
Instrument :
BNA_F
ClientSampleId :

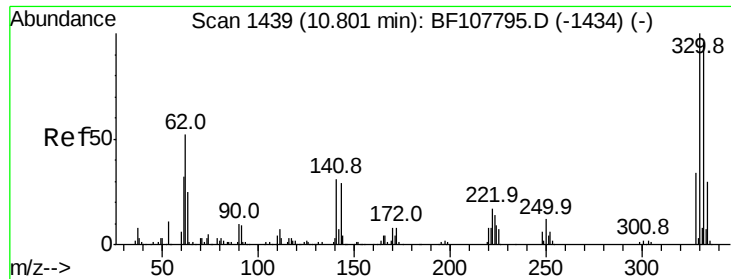
Tot Ion: 82 Resp: 923919
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF107817.D
Acq: 30 Jul 2018 23:00

Tgt Ion:164 Resp: 291016
Ion Ratio Lower Upper
164 100
162 107.2 86.1 129.1
160 49.1 38.3 57.5





#41

2,4,6-Tribromophenol

Concen: 73.477 ng

RT: 10.80 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :

BNA_F

ClientSampled :

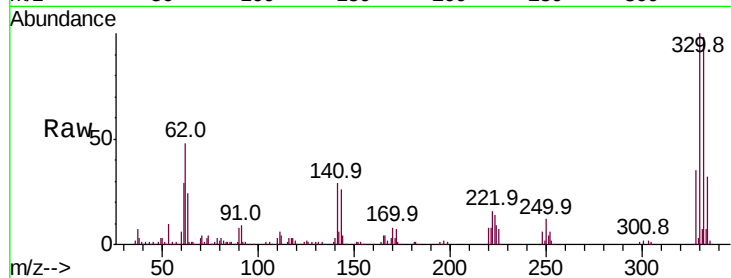
Tot Ion:330 Resp: 290553

Ion Ratio Lower Upper

330 100

332 97.4 77.0 115.6

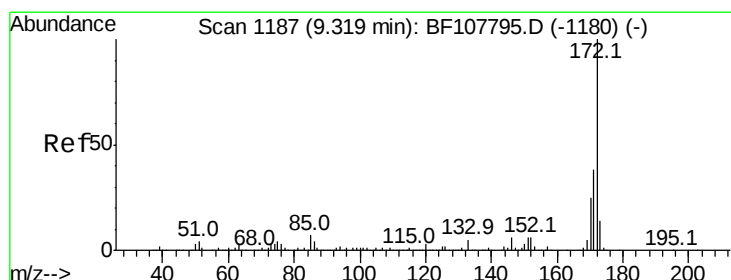
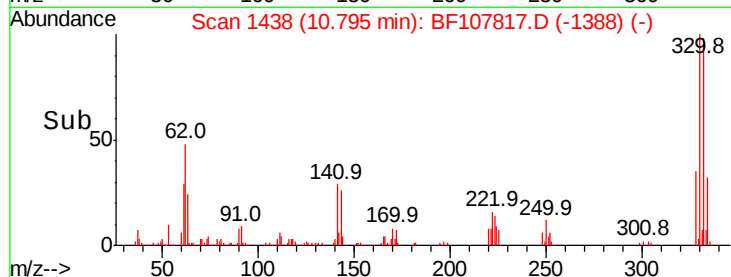
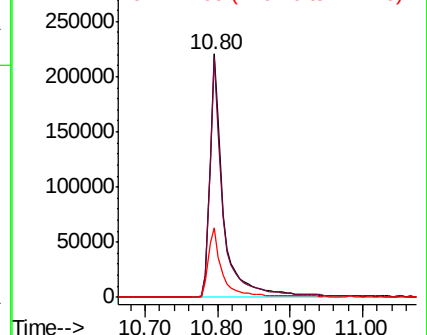
141 30.5 29.9 44.9



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: 65.388 ng

RT: 9.31 min Scan# 1186

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

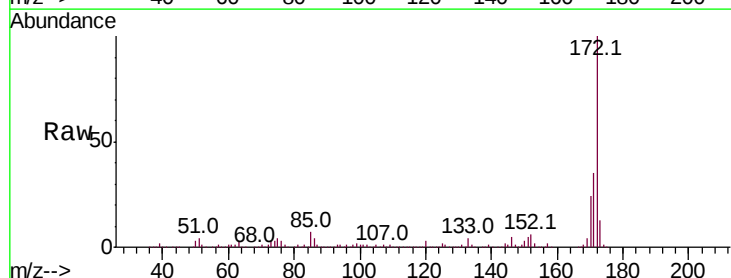
Tgt Ion:172 Resp: 1365570

Ion Ratio Lower Upper

172 100

171 35.3 29.7 44.5

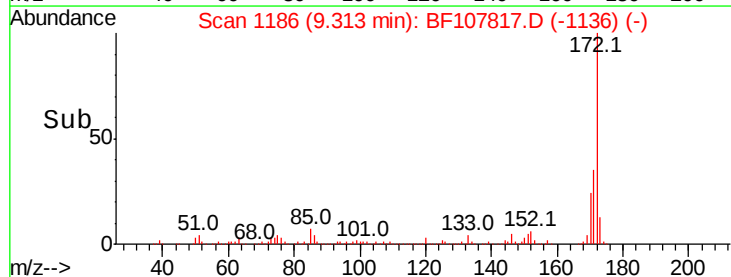
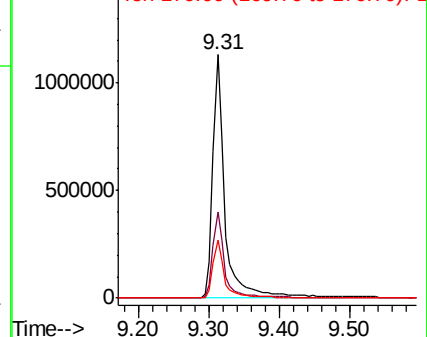
170 24.0 19.6 29.4

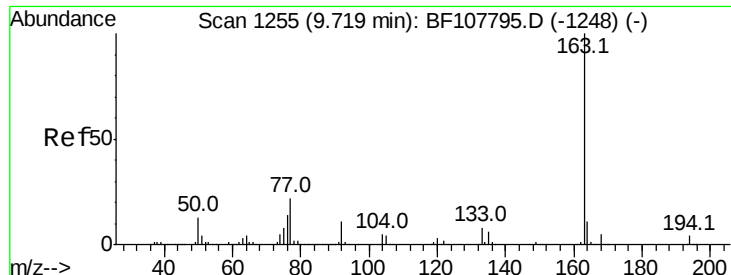


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 4.582 ng

RT: 9.71 min Scan# 1253

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :

BNA_F

ClientSampleId :

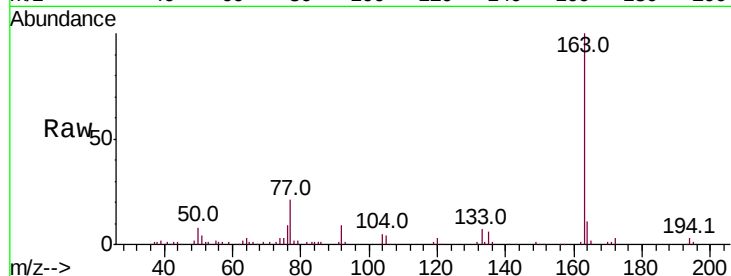
Tot Ion:163 Resp: 100131

Ion Ratio Lower Upper

163 100

194 3.5 2.7 4.1

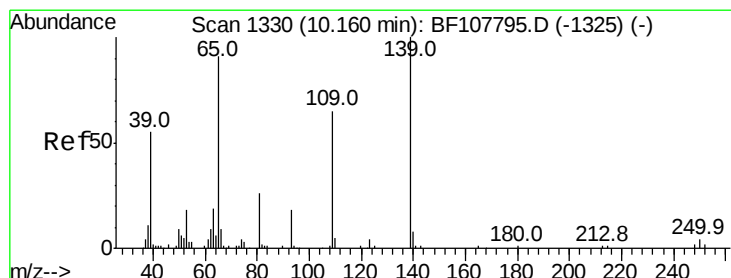
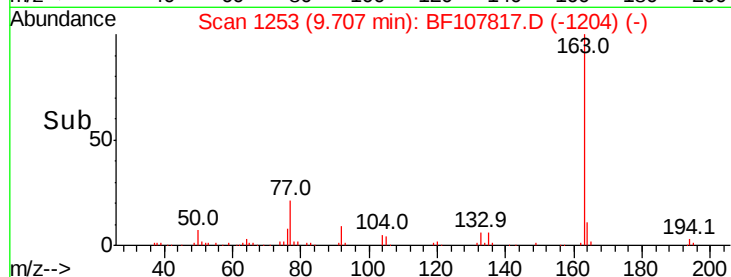
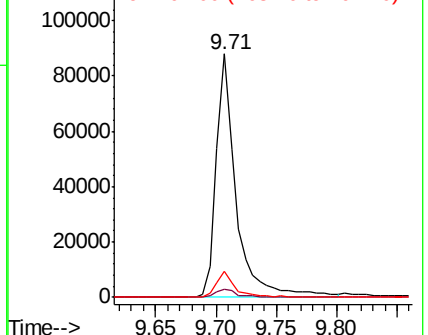
164 10.8 8.2 12.2



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



#55

4-Nitrophenol

Concen: 9.364 ng

RT: 10.40 min Scan# 1371

Delta R.T. 0.24 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

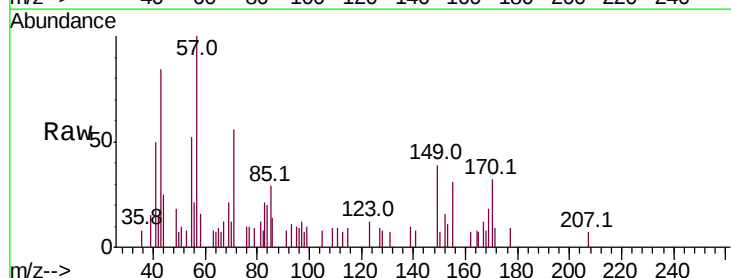
Tgt Ion:139 Resp: 164

Ion Ratio Lower Upper

139 100

109 86.9 48.4 88.4

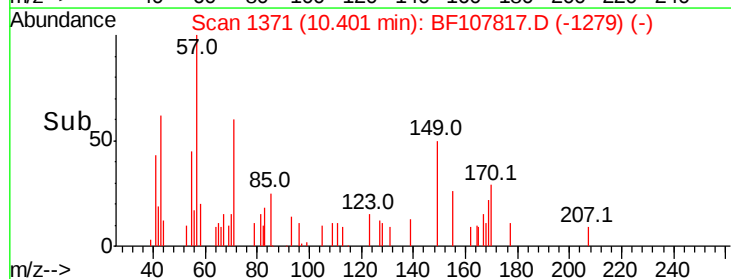
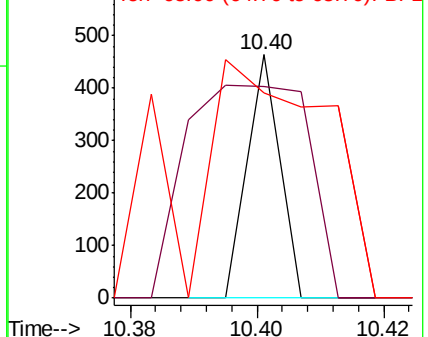
65 84.3 72.6 112.6

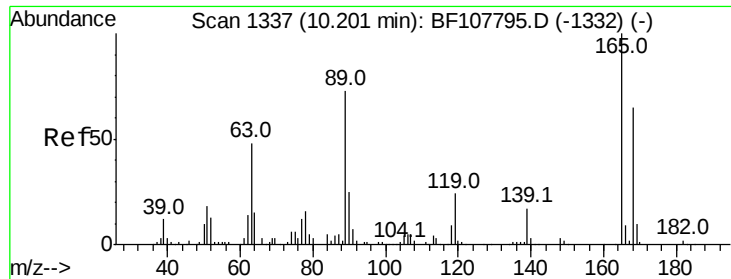


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

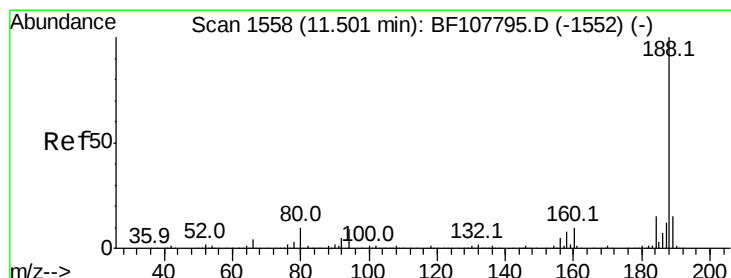
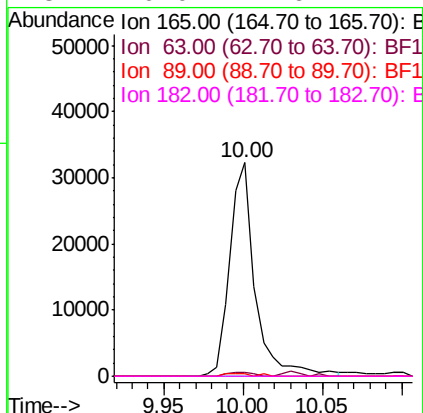
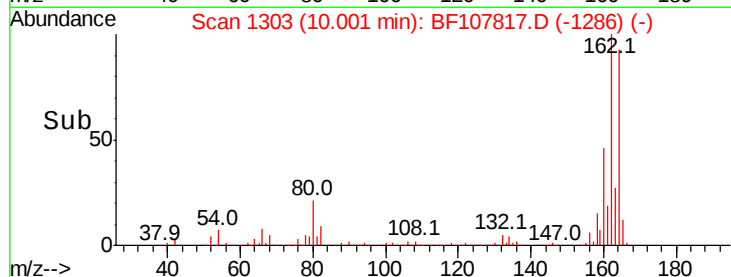
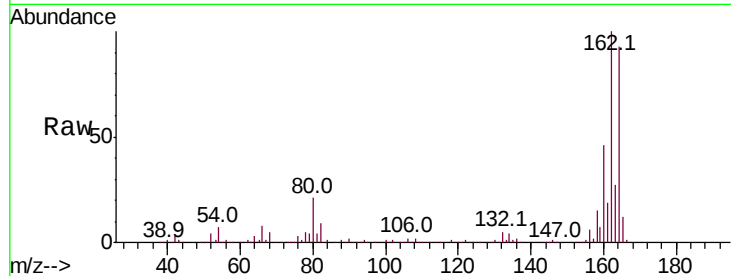




#56
 2,4-Dinitrotoluene
 Concen: 5.764 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.20 min
 Lab File: BF107817.D
 Acq: 30 Jul 2018 23:00

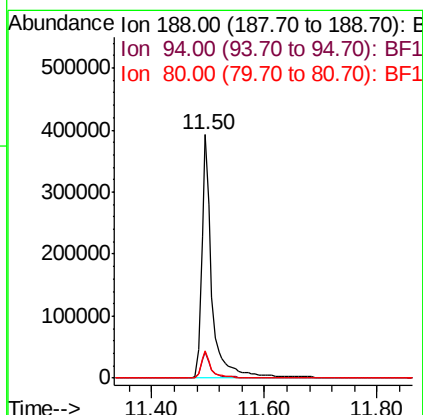
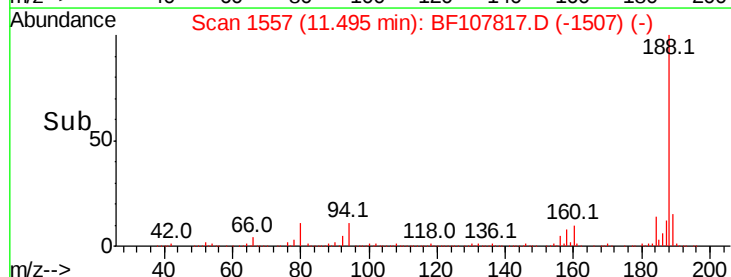
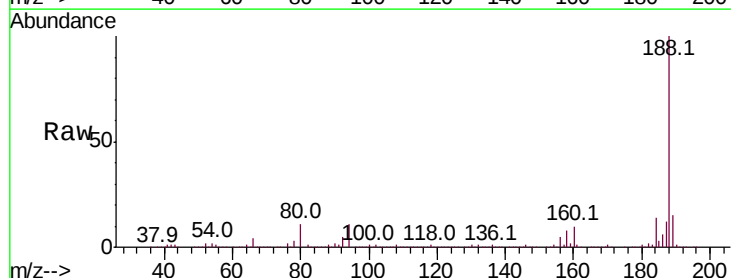
Instrument :
 BNA_F
 ClientSampleId :

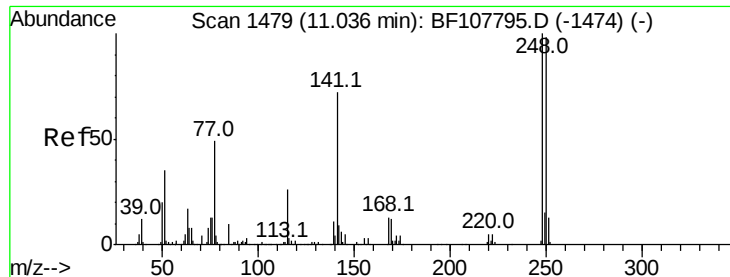
Tot Ion:	165	Resp:	35985
Ion	Ratio	Lower	Upper
165	100		
63	2.1	36.4	54.6#
89	1.5	57.8	86.6#
182	0.0	1.6	2.4#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF107817.D
 Acq: 30 Jul 2018 23:00

Tgt Ion:	188	Resp:	495719
Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.5	12.7
80	11.2	9.2	13.8

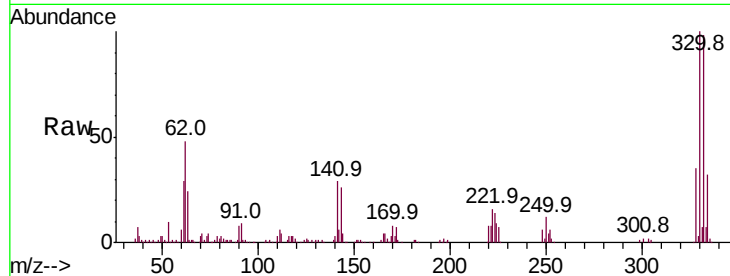




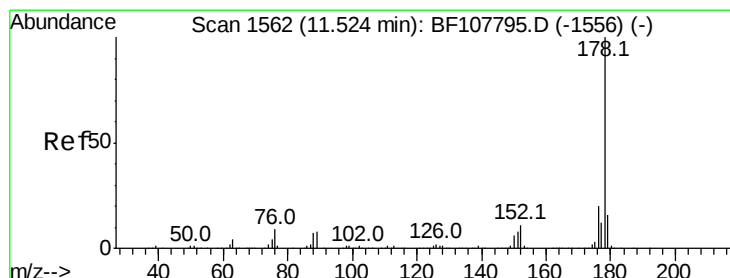
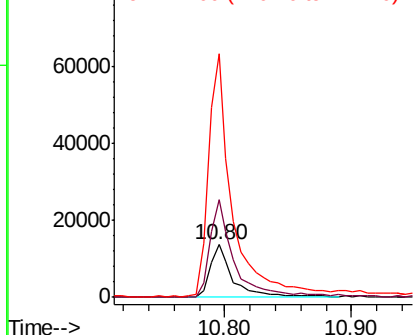
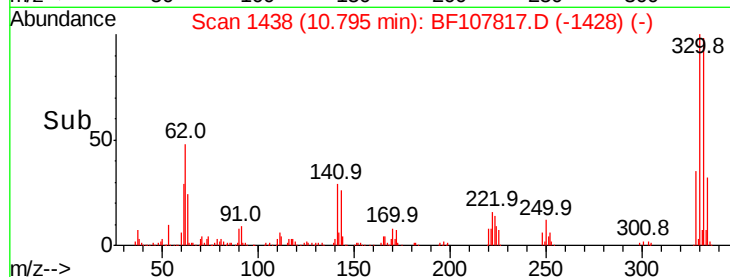
#66
 4-Bromophenyl-phenylether
 Concen: 2.982 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.24 min
 Lab File: BF107817.D
 Acq: 30 Jul 2018 23:00

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 17232
 Ion Ratio Lower Upper
 248 100
 250 185.6 76.9 115.3#
 141 462.5 74.4 111.6#

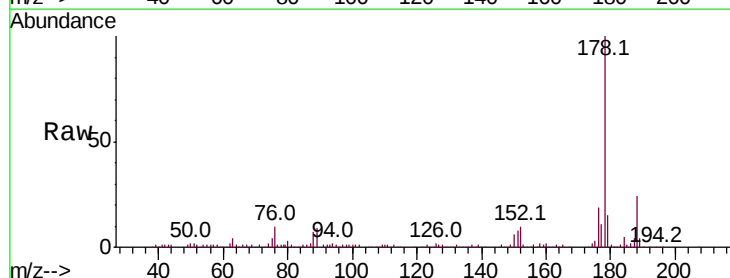


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

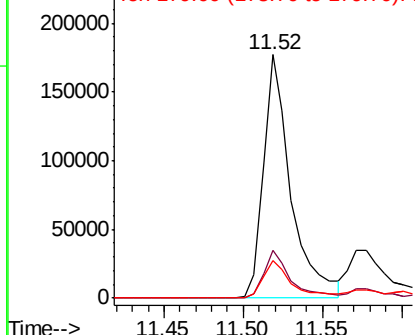
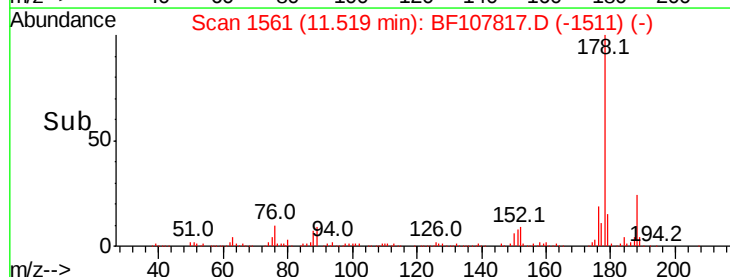


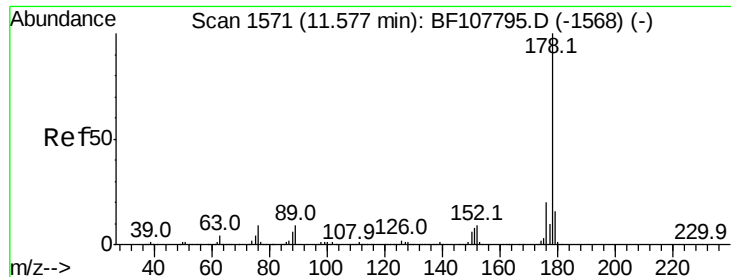
#70
 Phenanthrene
 Concen: 9.153 ng
 RT: 11.52 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: BF107817.D
 Acq: 30 Jul 2018 23:00

Tgt Ion:178 Resp: 215450
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.8 23.8
 179 15.4 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

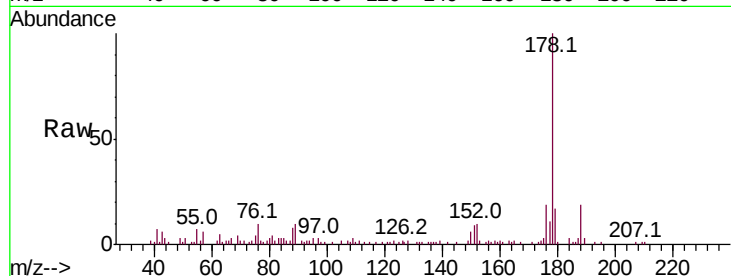




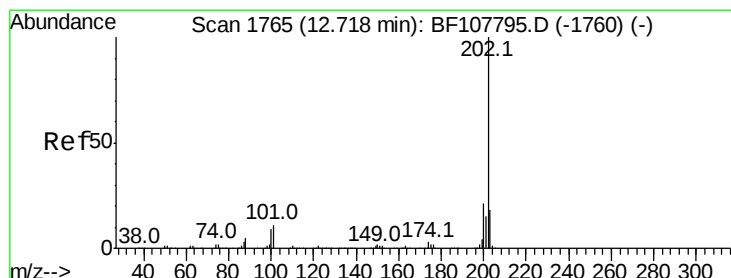
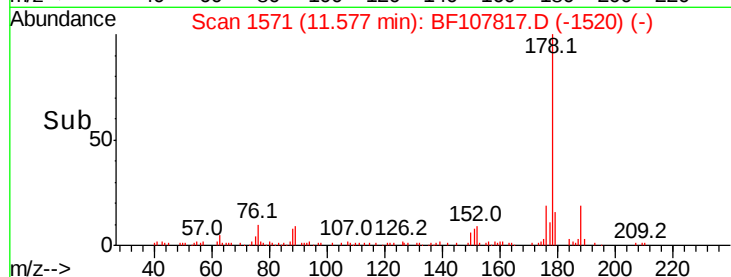
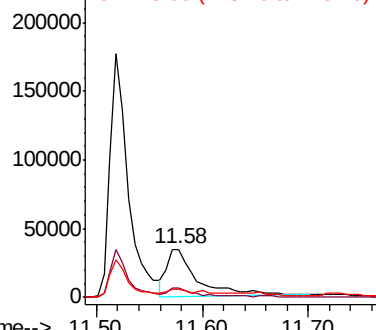
#71
 Anthracene
 Concen: 2.523 ng
 RT: 11.58 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: BF107817.D
 Acq: 30 Jul 2018 23:00

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 68486
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.4 23.2
 179 17.3 12.6 19.0

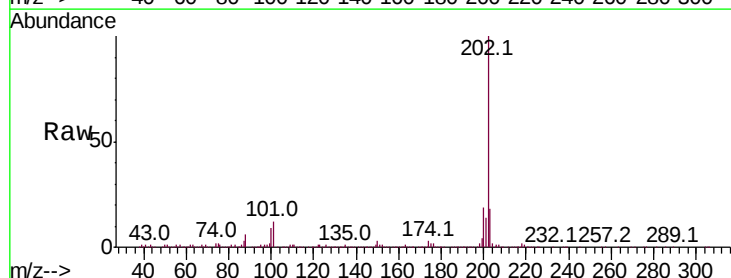


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

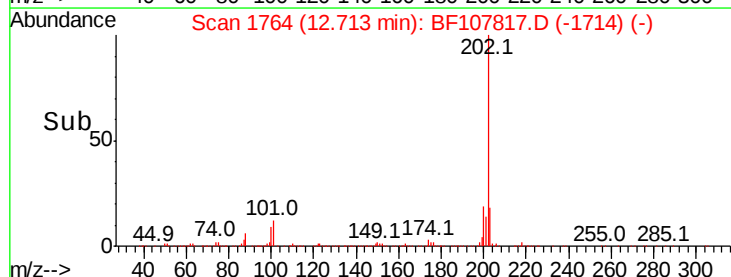
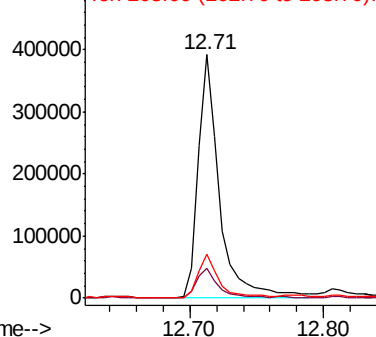


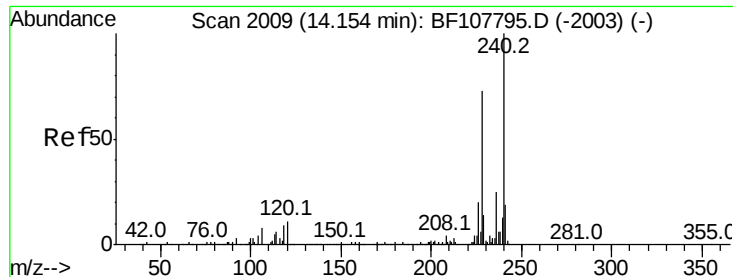
#74
 Fluoranthene
 Concen: 15.839 ng
 RT: 12.71 min Scan# 1764
 Delta R.T. -0.01 min
 Lab File: BF107817.D
 Acq: 30 Jul 2018 23:00

Tgt Ion:202 Resp: 437986
 Ion Ratio Lower Upper
 202 100
 101 12.5 0.0 34.1
 203 17.9 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: 14.15 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :

BNA_F

ClientSampleId :

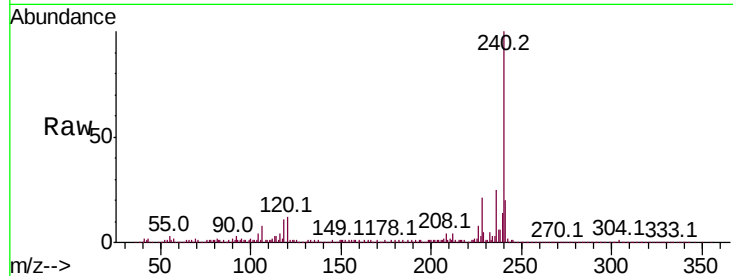
Tot Ion:240 Resp: 484908

Ion Ratio Lower Upper

240 100

120 12.1 9.5 14.3

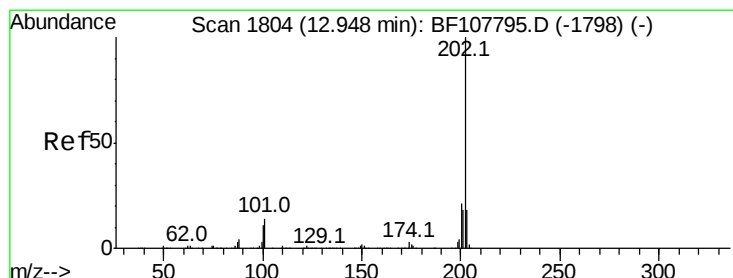
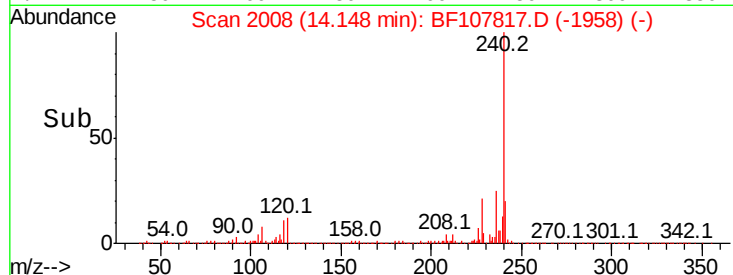
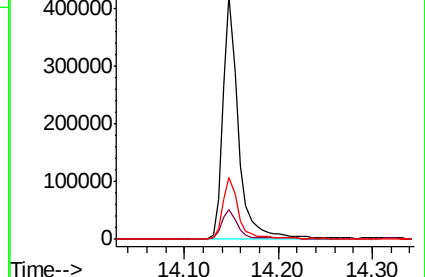
236 25.3 20.7 31.1



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: 13.005 ng

RT: 12.94 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

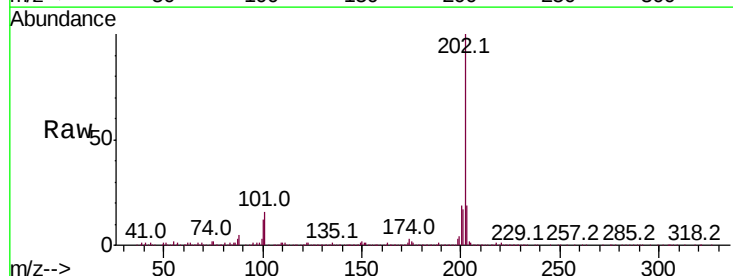
Tgt Ion:202 Resp: 454114

Ion Ratio Lower Upper

202 100

200 19.1 17.4 26.2

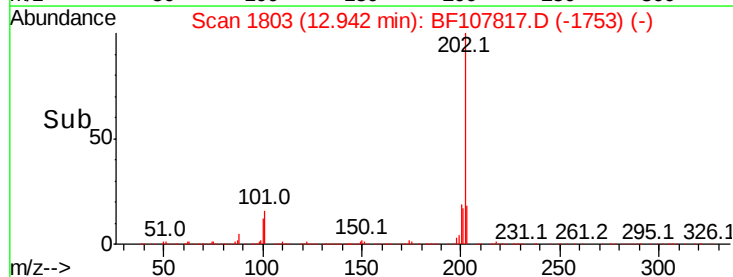
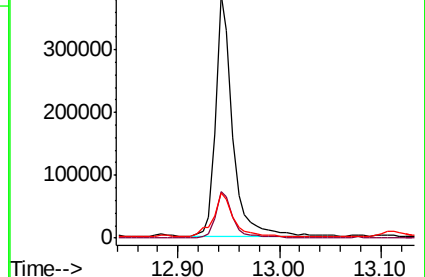
203 18.7 14.3 21.5

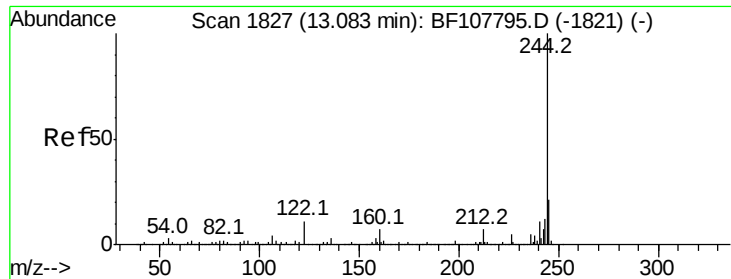


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 47.391 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :

BNA_F

ClientSampleId :

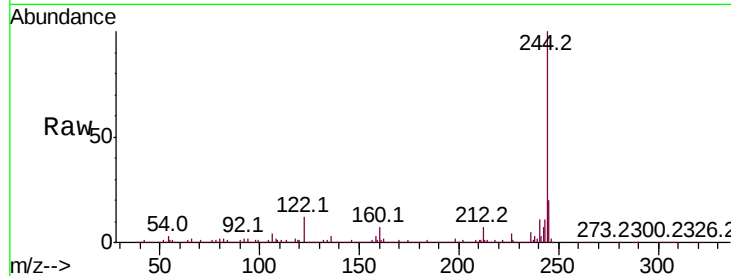
Tot Ion:244 Resp: 1059764

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

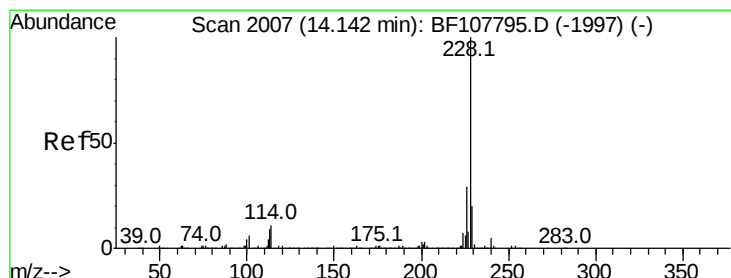
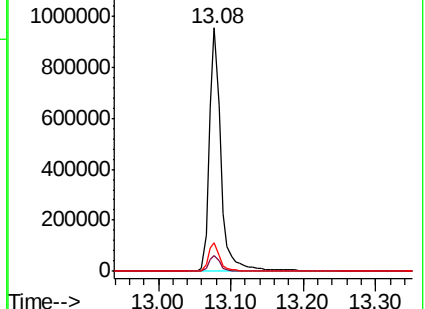
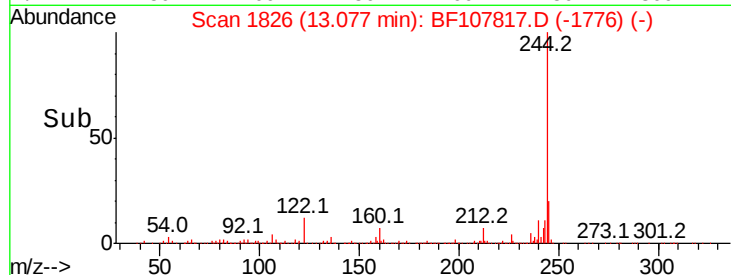
122 11.6 11.0 16.4



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: 9.292 ng

RT: 14.14 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

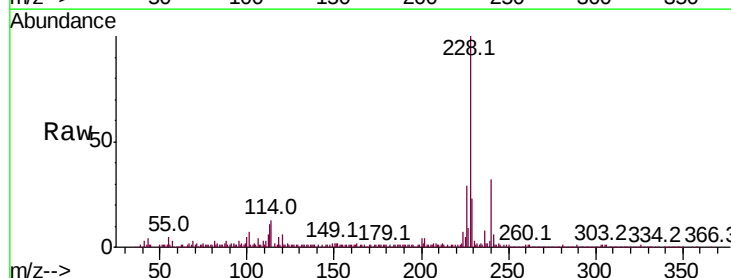
Tgt Ion:228 Resp: 255243

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

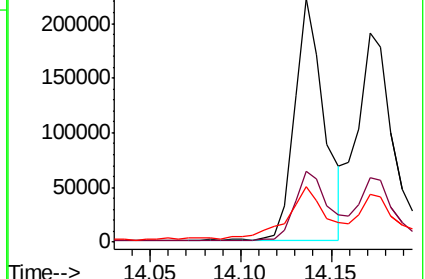
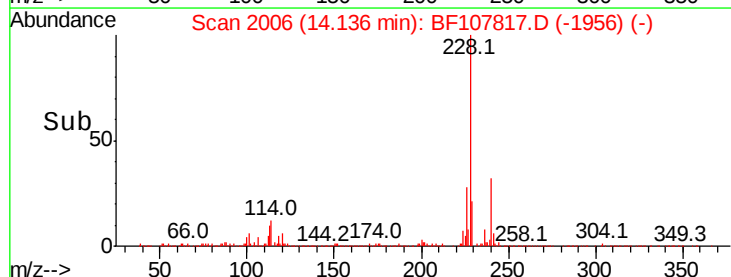
229 22.5 15.8 23.6

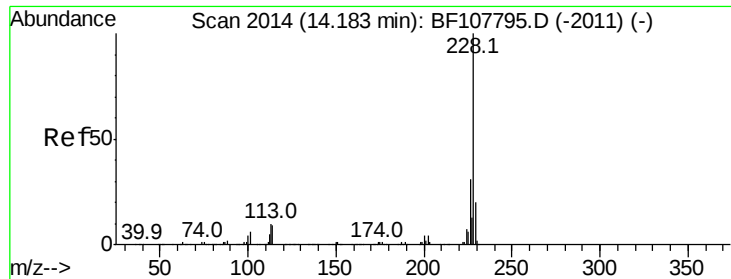


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.127 ng

RT: 14.17 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :

BNA_F

ClientSampled :

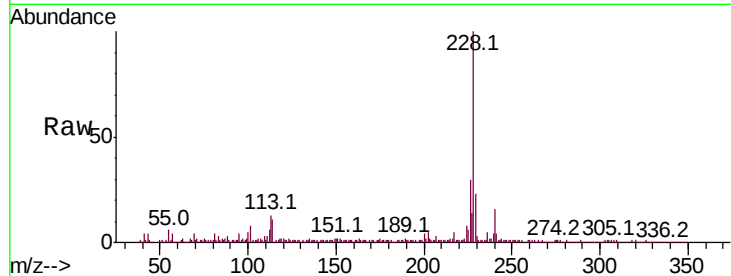
Tot Ion:228 Resp: 270407

Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

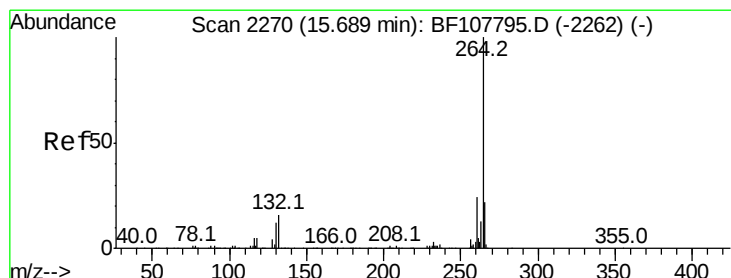
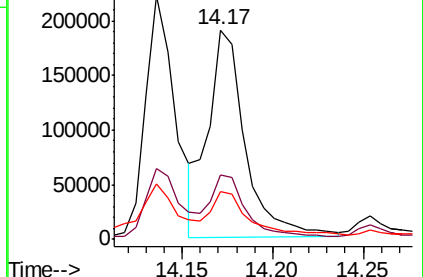
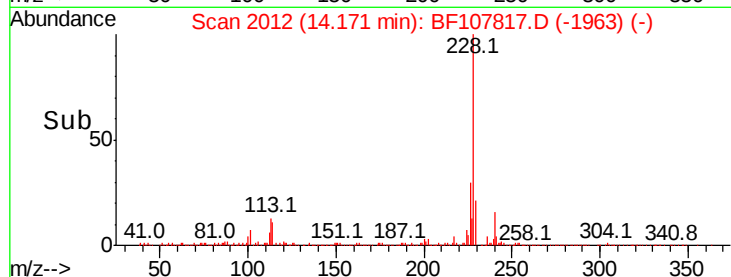
229 22.6 16.2 24.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.68 min Scan# 2269

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

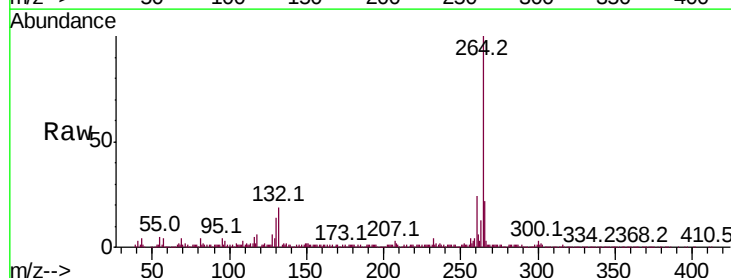
Tgt Ion:264 Resp: 500921

Ion Ratio Lower Upper

264 100

260 24.3 19.2 28.8

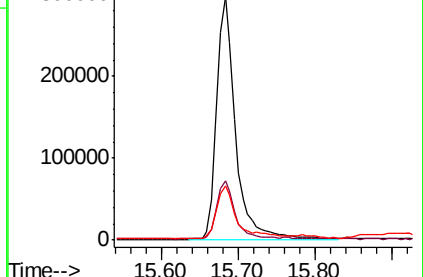
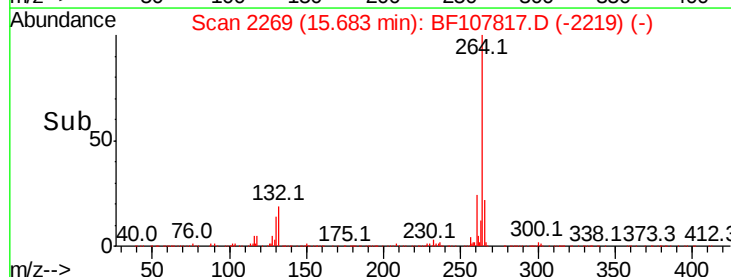
265 22.3 17.5 26.3

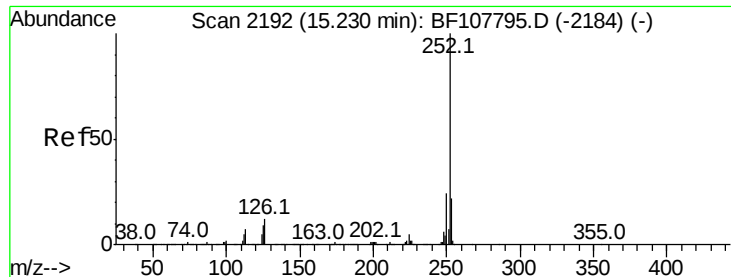


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

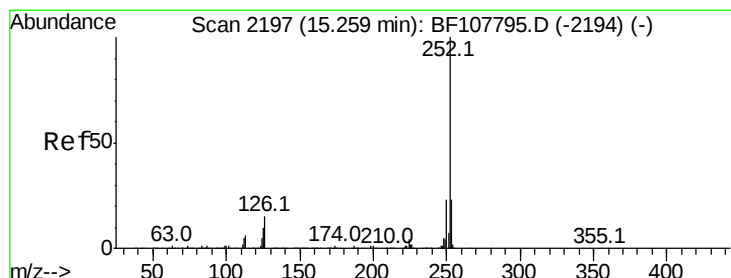
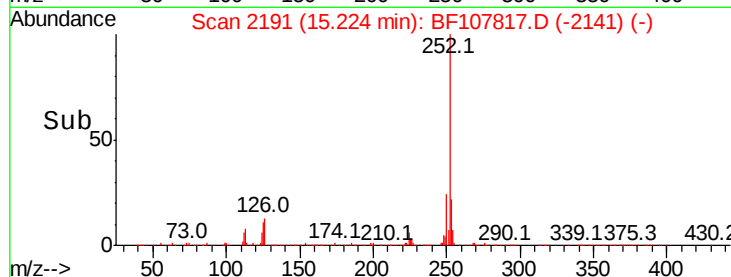
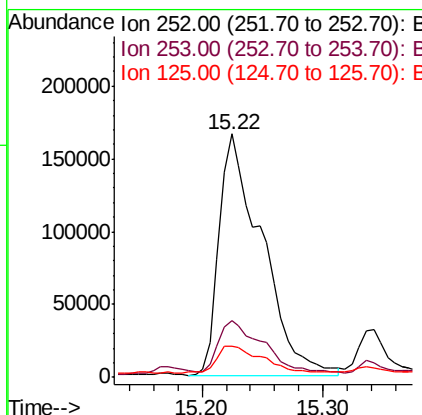
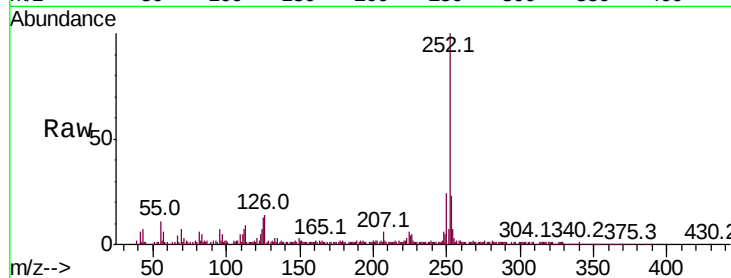




#87
Benzo(b)fluoranthene
Concen: 16.448 ng
RT: 15.22 min Scan# 2191
Delta R.T. -0.01 min
Lab File: BF107817.D
Acq: 30 Jul 2018 23:00

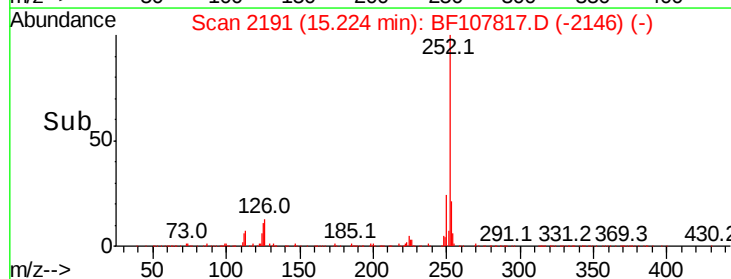
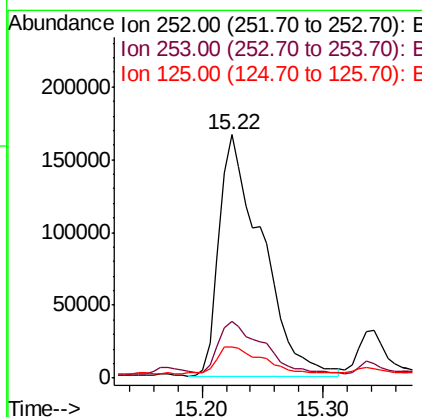
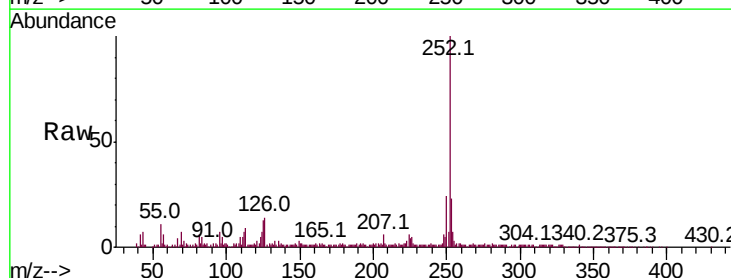
Instrument :
BNA_F
ClientSampleId :

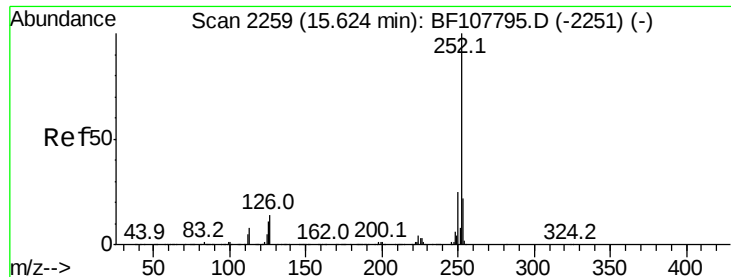
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	13.0	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 13.397 ng
RT: 15.22 min Scan# 2191
Delta R.T. -0.04 min
Lab File: BF107817.D
Acq: 30 Jul 2018 23:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	13.0	10.2	15.2





#89

Benzo(a)pyrene

Concen: 8.741 ng

RT: 15.62 min Scan# 2258

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

Instrument :

BNA_F

ClientSampleId :

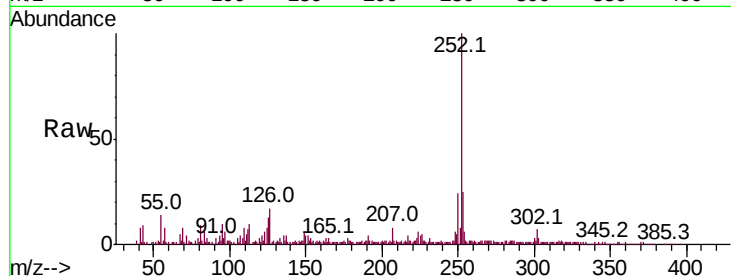
Tot Ion:252 Resp: 222946

Ion Ratio Lower Upper

252 100

253 24.7 17.1 25.7

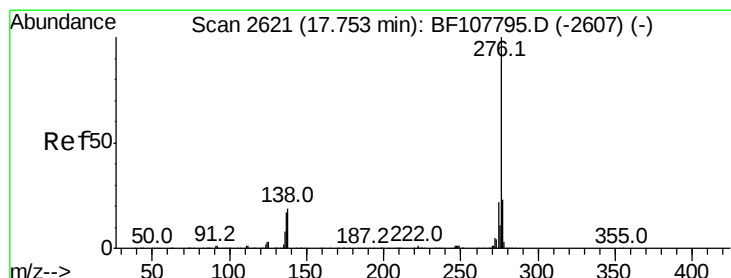
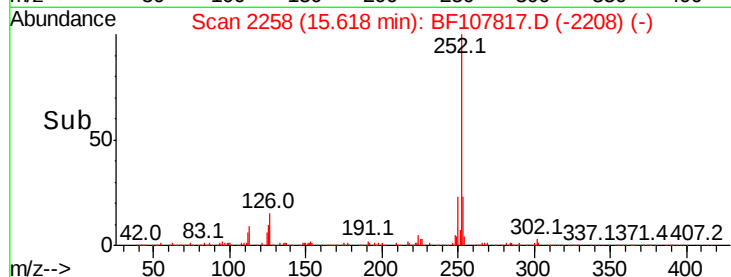
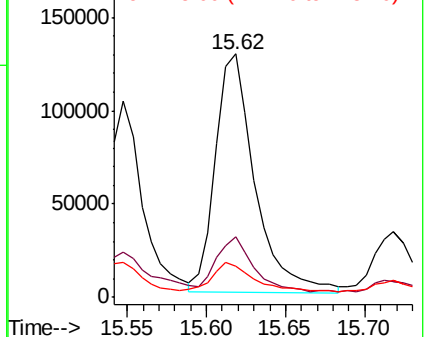
125 13.0 9.8 14.6



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



#91

Benzo(g,h,i)perylene

Concen: 4.931 ng

RT: 17.74 min Scan# 2619

Delta R.T. -0.01 min

Lab File: BF107817.D

Acq: 30 Jul 2018 23:00

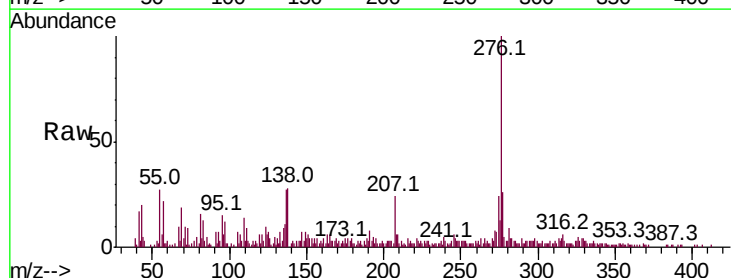
Tgt Ion:276 Resp: 106145

Ion Ratio Lower Upper

276 100

277 26.3 17.9 26.9

138 27.8 21.8 32.8



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

