

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071818\
 Data File : BF107508.D
 Acq On : 19 Jul 2018 11:08
 Operator : JU/SJ
 Sample : J4016-11DL 4X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB3-L-12-7DL

Quant Time: Jul 19 13:17:38 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 18 11:55:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.98	152	117975	20.00	ng	0.00
21) Naphthalene-d8	8.27	136	436766	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	226542	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	438201	20.00	ng	0.00
75) Chrysene-d12	14.17	240	308255	20.00	ng	-0.01
86) Perylene-d12	15.71	264	319226	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.60	112	155320	20.00	ng	-0.01
7) Phenol-d6	6.60	99	192656	19.18	ng	-0.02
23) Nitrobenzene-d5	7.54	82	126638	15.46	ng	-0.02
41) 2,4,6-Tribromophenol	10.81	330	42173	21.19	ng	-0.02
44) 2-Fluorobiphenyl	9.34	172	234519	7.36	ng	-0.01
78) Terphenyl-d14	13.10	244	229018	18.46	ng	-0.01

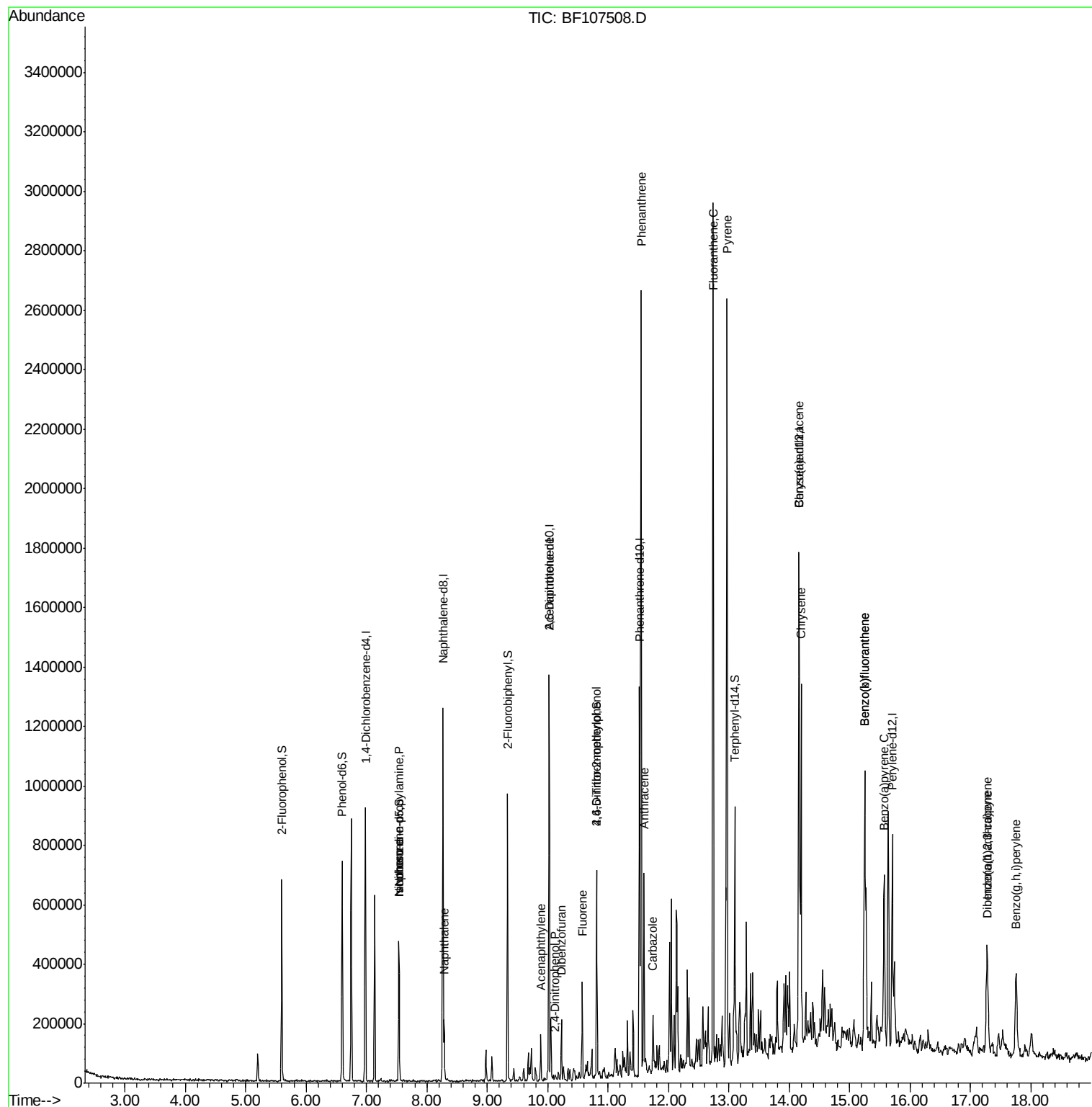
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.54	70	22070	3.069	ng	# 73
25) Isophorone	7.54	82	126523	7.793	ng	# 64
31) Naphthalene	8.28	128	68171	3.213	ng	# 94
48) Acenaphthylene	9.88	152	44086	2.042	ng	# 95
50) 2,6-Dinitrotoluene	10.02	165	27488	8.003	ng	# 27
53) 2,4-Dinitrophenol	10.11	184	280	2.588	ng	# 5
54) Dibenzofuran	10.23	168	61526	2.782	ng	# 88
57) Fluorene	10.57	166	74201	5.066	ng	# 94
64) 4,6-Dinitro-2-methylphenol	10.81	198	107	7.528	ng	# 1
70) Phenanthrene	11.55	178	950789	43.538	ng	# 98
71) Anthracene	11.60	178	226428	10.410	ng	# 95
72) Carbazole	11.75	167	61373	2.980	ng	# 94
74) Fluoranthene	12.74	202	1194011	48.105	ng	# 92
77) Pyrene	12.97	202	1054355	50.299	ng	# 98
80) Benzo(a)anthracene	14.15	228	505333	26.793	ng	# 100
82) Chrysene	14.19	228	446014	24.755	ng	# 96
85) Indeno(1,2,3-cd)pyrene	17.27	276	237335	18.506	ng	# 84
87) Benzo(b)fluoranthene	15.25	252	741852	39.704	ng	# 95
88) Benzo(k)fluoranthene	15.25	252	741852	40.684	ng	# 93
89) Benzo(a)pyrene	15.57	252	265217	15.465	ng	# 97
90) Dibenz(a,h)anthracene	17.29	278	62766	4.849	ng	# 92
91) Benzo(g,h,i)perylene	17.75	276	232693	17.693	ng	# 85

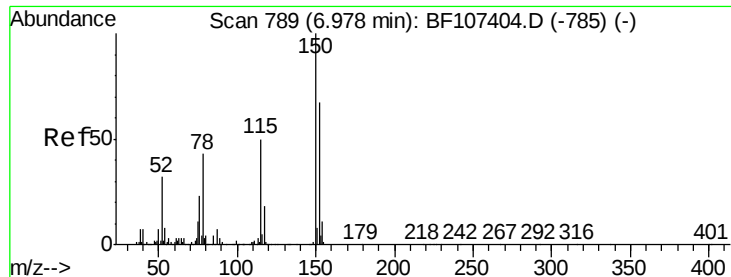
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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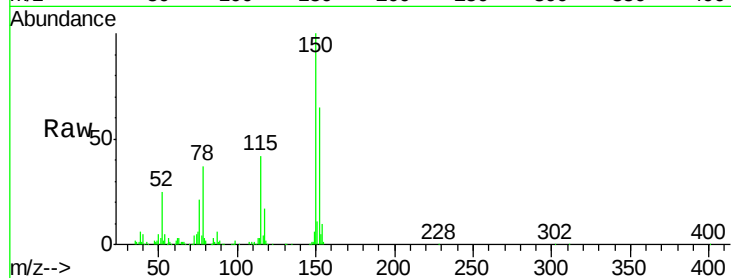


#1

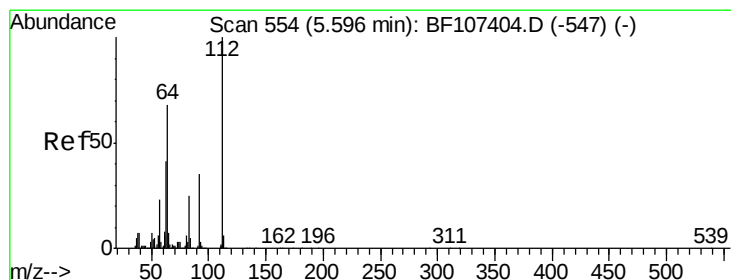
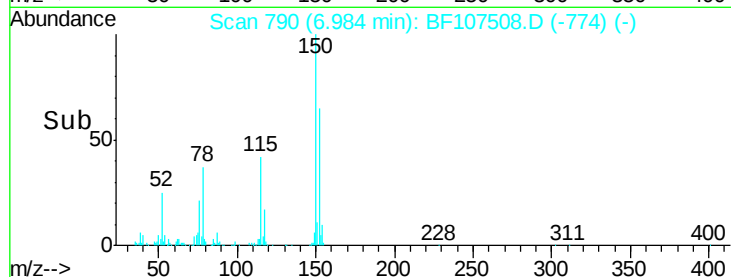
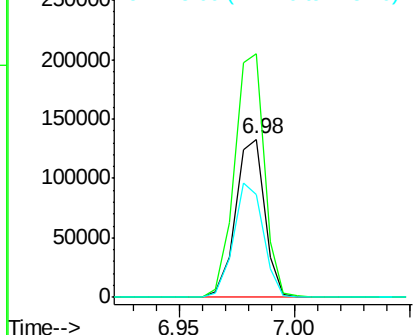
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.98 min Scan# 790
Delta R.T. -0.01 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

Instrument :
BNA_F
ClientSampleId :
SB3-L-12-7DL

Tgt Ion:152 Resp: 117975
Ion Ratio Lower Upper
152 100
150 153.7 124.6 186.8
115 64.6 50.1 75.1



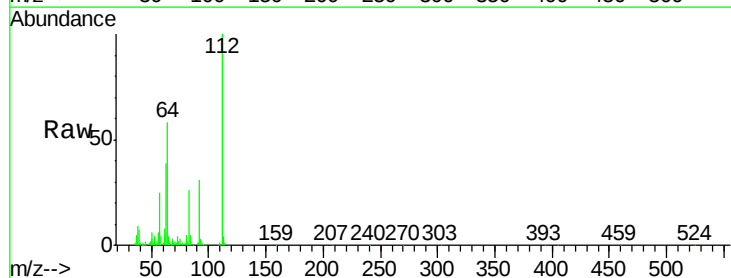
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



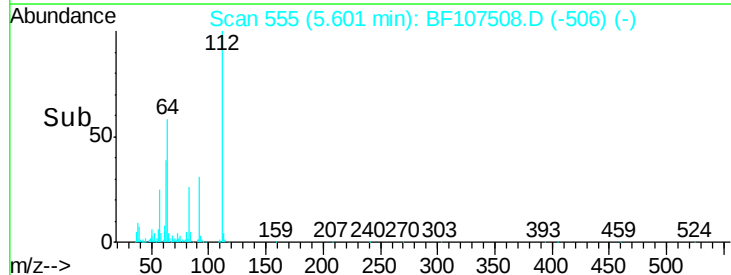
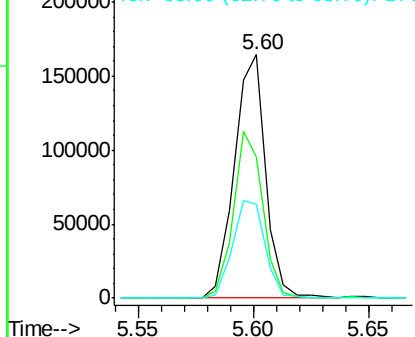
#5

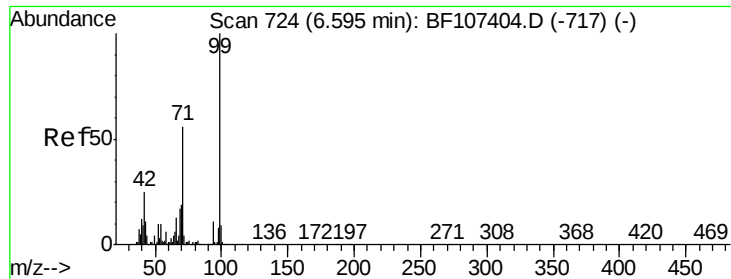
2-Fluorophenol
Concen: 19.995 ng
RT: 5.60 min Scan# 555
Delta R.T. -0.01 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

Tgt Ion:112 Resp: 155320
Ion Ratio Lower Upper
112 100
64 57.9 47.9 71.9
63 38.7 23.7 35.5#



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





#7

Phenol-d6

Concen: 19.183 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

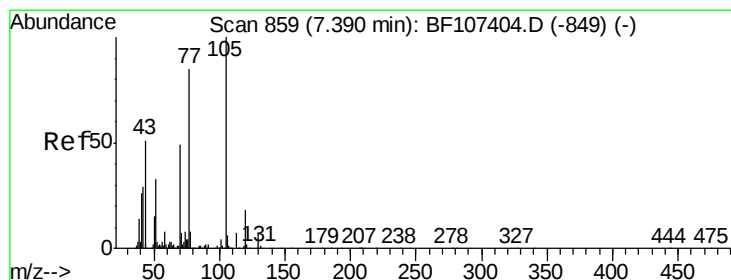
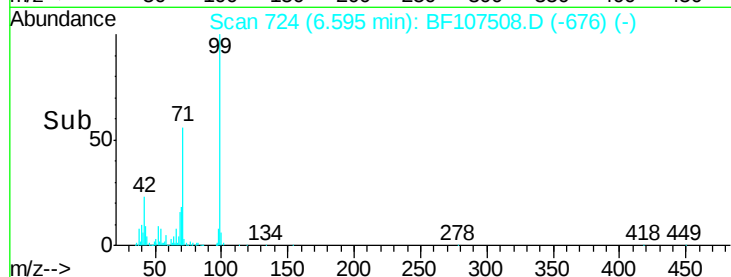
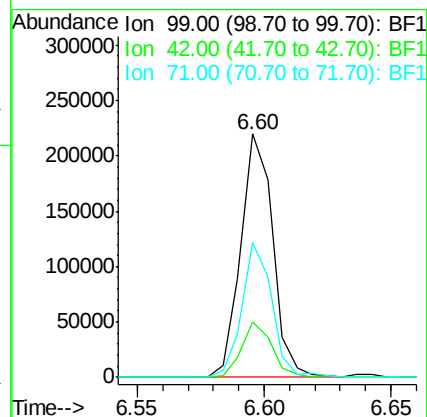
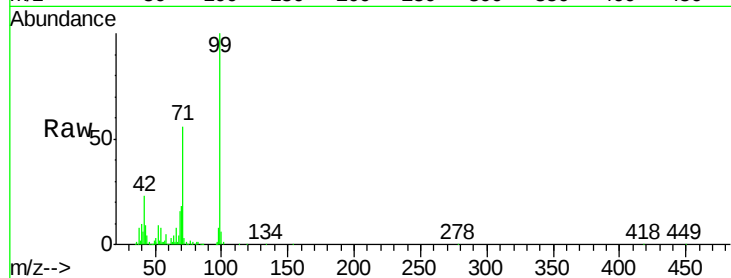
Tgt Ion: 99 Resp: 192656

Ion Ratio Lower Upper

99 100

42 22.7 14.5 21.7#

71 55.6 25.4 38.0#



#19

n-Nitroso-di-n-propylamine

Concen: 3.069 ng

RT: 7.54 min Scan# 884

Delta R.T. 0.14 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Tgt Ion: 70 Resp: 22070

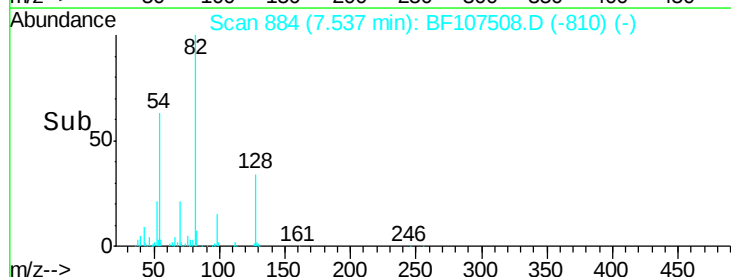
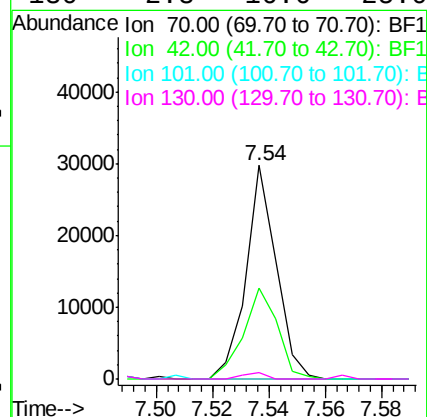
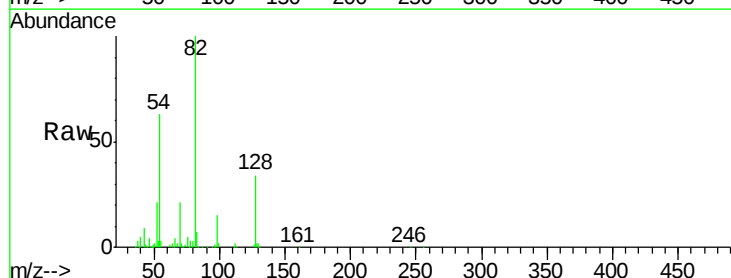
Ion Ratio Lower Upper

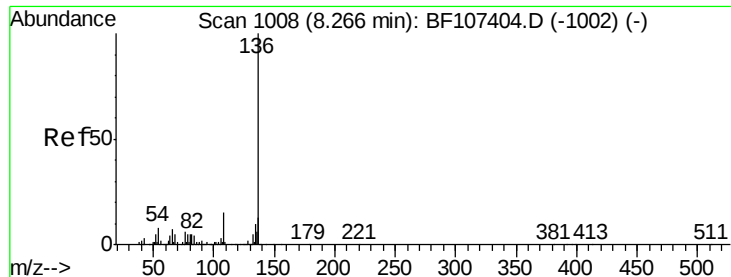
70 100

42 42.5 47.5 71.3#

101 0.0 7.4 11.2#

130 2.8 16.6 25.0#

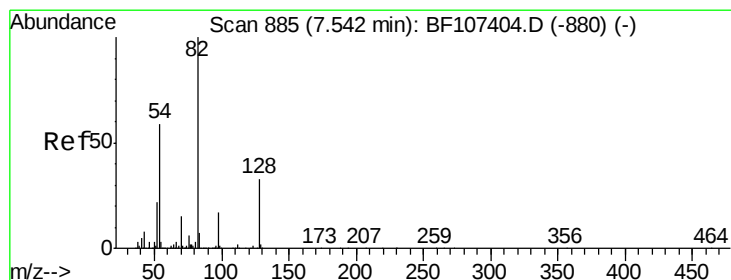
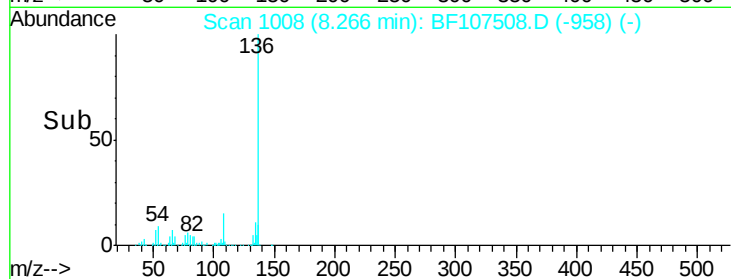
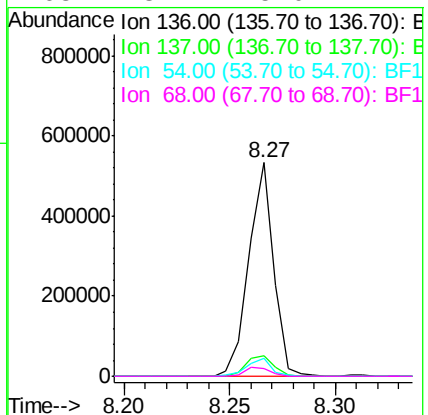
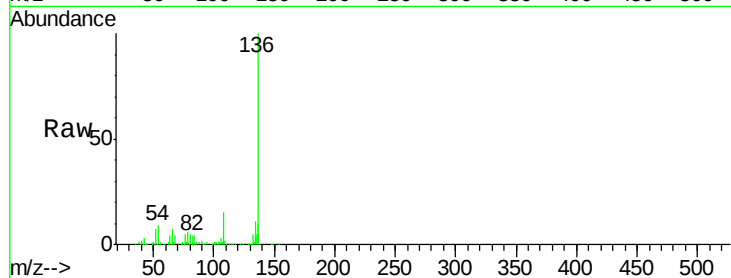




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.01 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

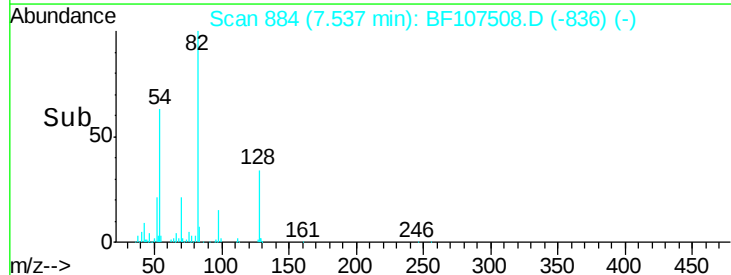
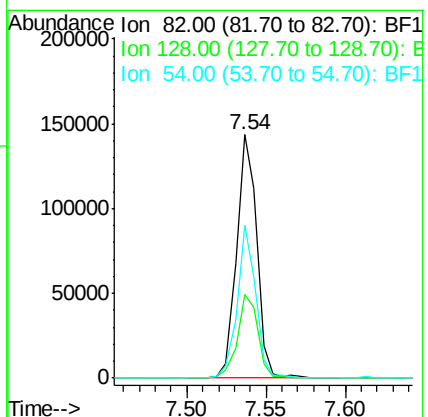
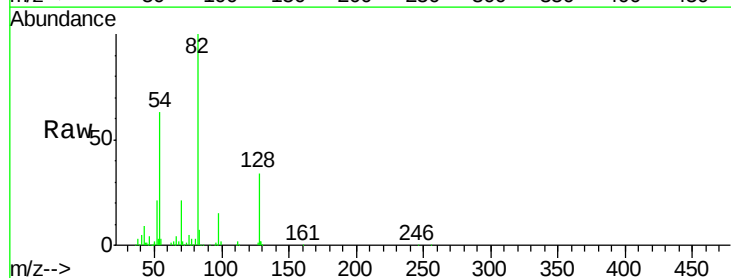
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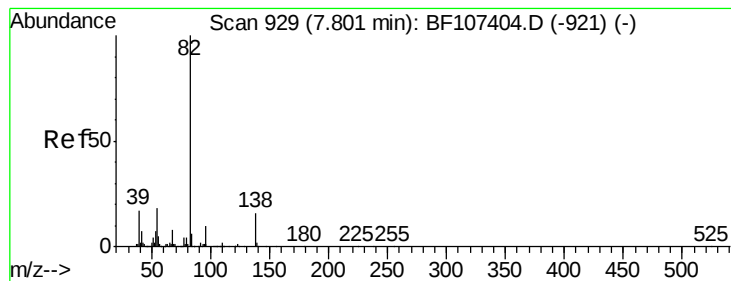
Tgt Ion:	136	Resp:	436766
Ion	Ratio	Lower	Upper
136	100		
137	9.9	8.9	13.3
54	8.7	6.6	9.8
68	3.7	5.0	7.4#



#23
Nitrobenzene-d5
Concen: 15.461 ng
RT: 7.54 min Scan# 884
Delta R.T. -0.02 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

Tgt Ion:	82	Resp:	126638
Ion	Ratio	Lower	Upper
82	100		
128	34.3	36.1	54.1#
54	62.8	41.4	62.2#





#25

Isophorone

Concen: 7.793 ng

RT: 7.54 min Scan# 884

Delta R.T. -0.27 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

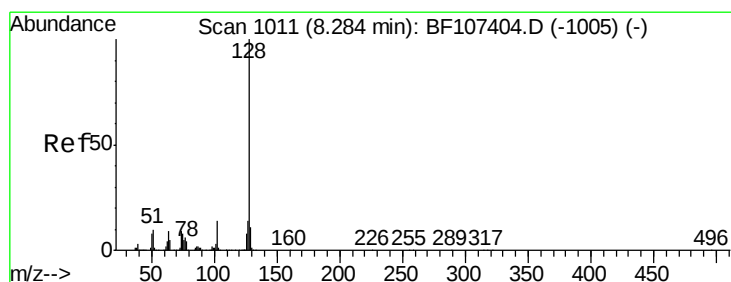
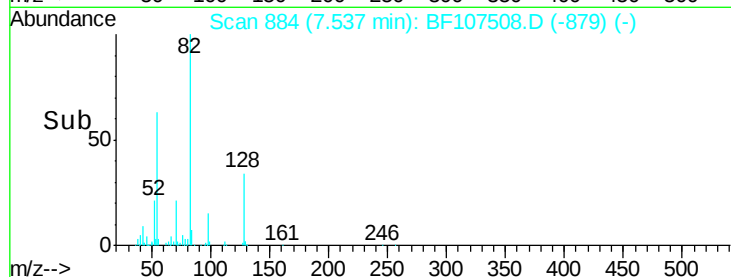
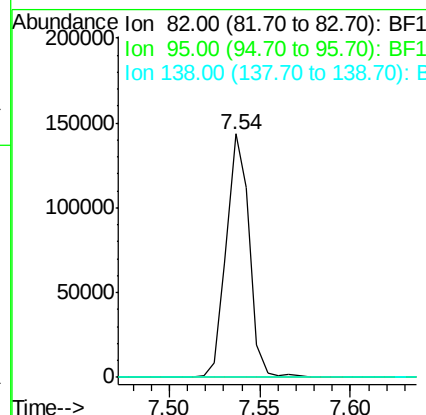
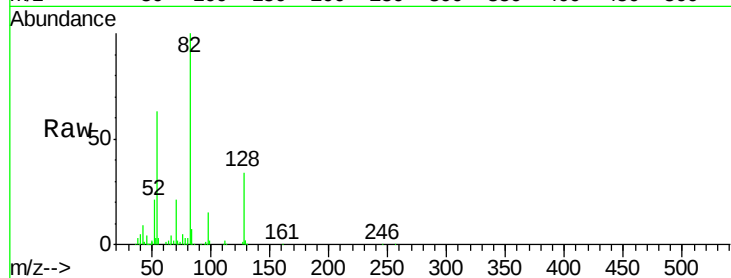
Tgt Ion: 82 Resp: 126523

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



#31

Naphthalene

Concen: 3.213 ng

RT: 8.28 min Scan# 1011

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

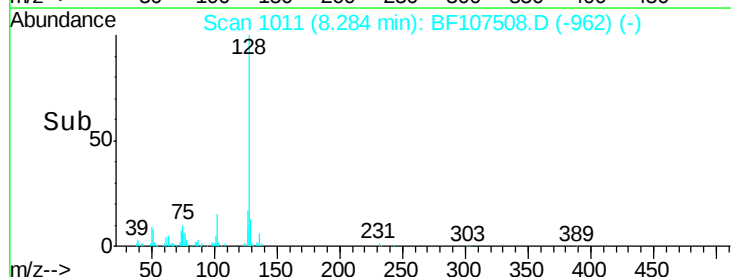
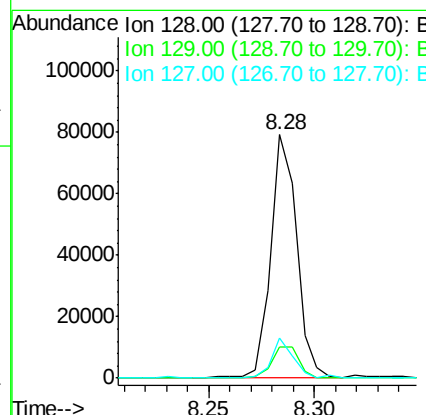
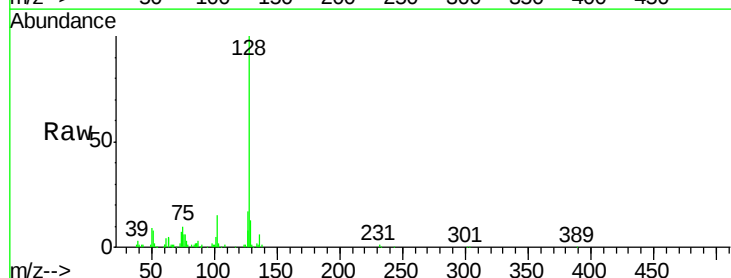
Tgt Ion: 128 Resp: 68171

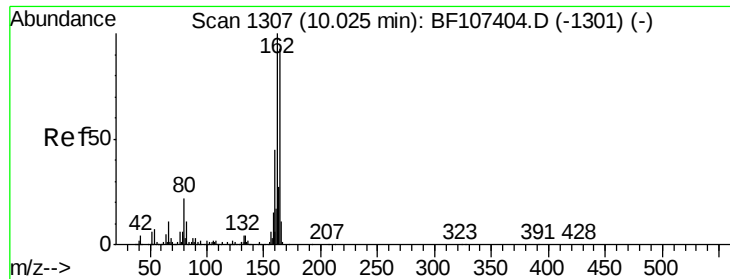
Ion Ratio Lower Upper

128 100

129 12.6 8.8 13.2

127 16.6 10.9 16.3#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.02 min Scan# 1307

Delta R.T. -0.01 min

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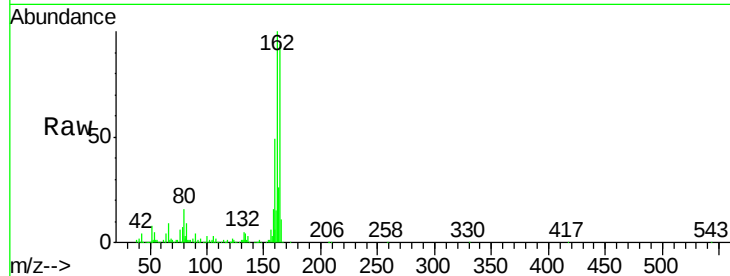
Tgt Ion:164 Resp: 226542

Ion Ratio Lower Upper

164 100

162 106.0 86.1 129.1

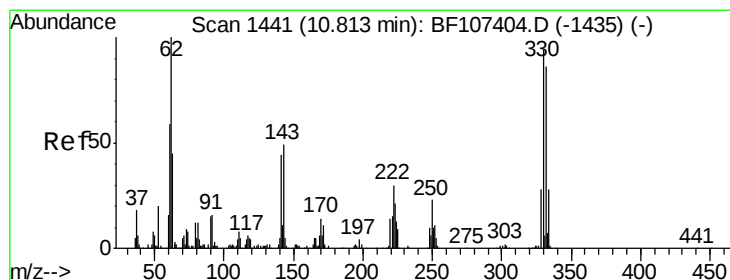
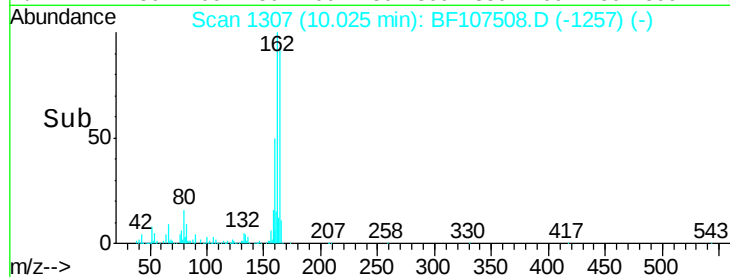
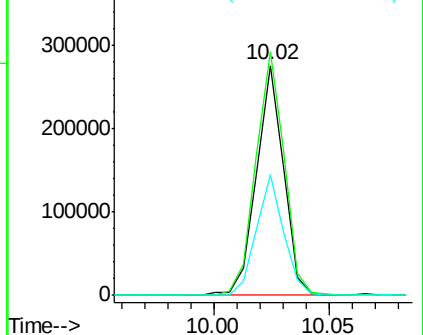
160 52.4 38.3 57.5



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: 21.188 ng

RT: 10.81 min Scan# 1441

Delta R.T. -0.02 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

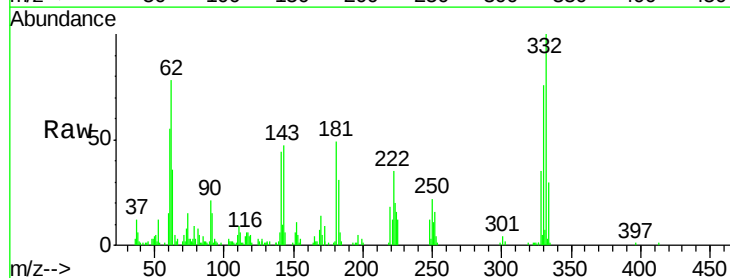
Tgt Ion:330 Resp: 42173

Ion Ratio Lower Upper

330 100

332 111.8 77.0 115.6

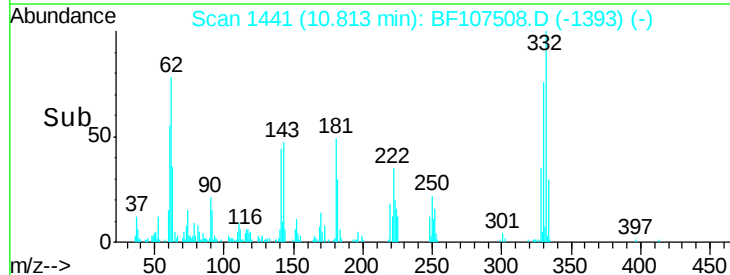
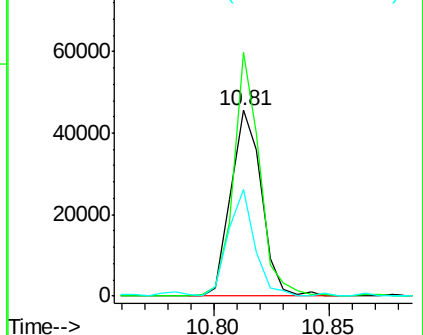
141 49.9 29.9 44.9#

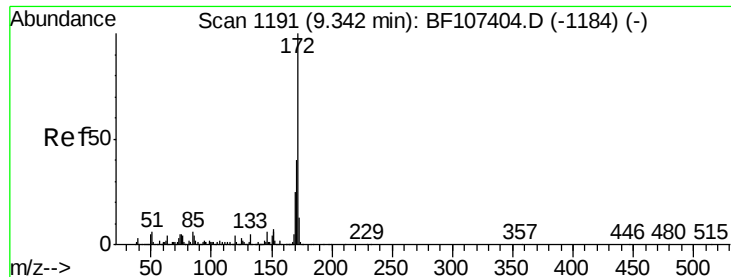


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

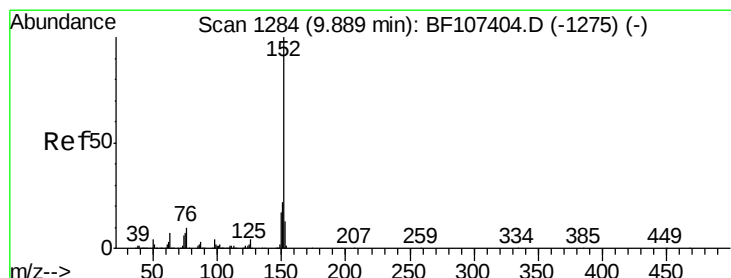
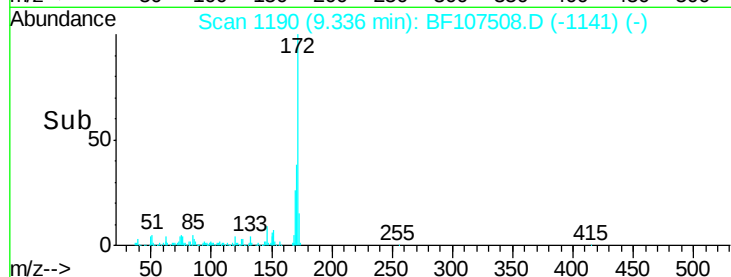
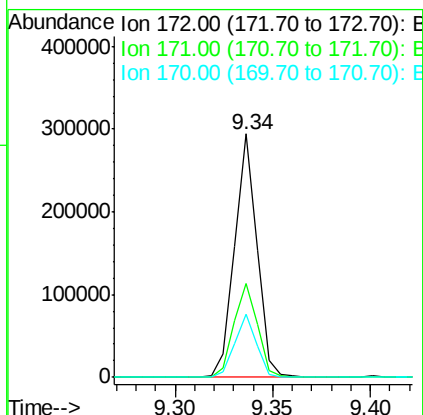
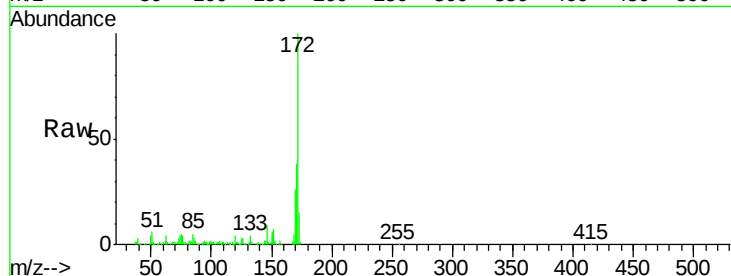




#44
2-Fluorobiphenyl
Concen: 7.359 ng
RT: 9.34 min Scan# 1190
Delta R.T. -0.01 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

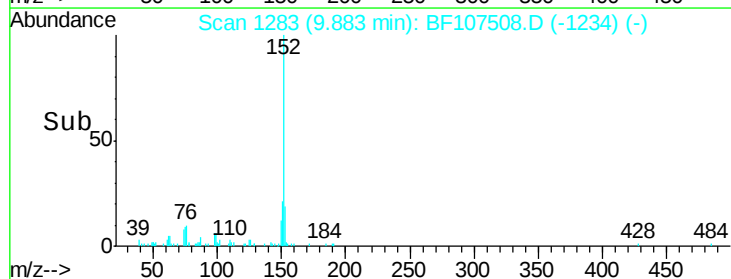
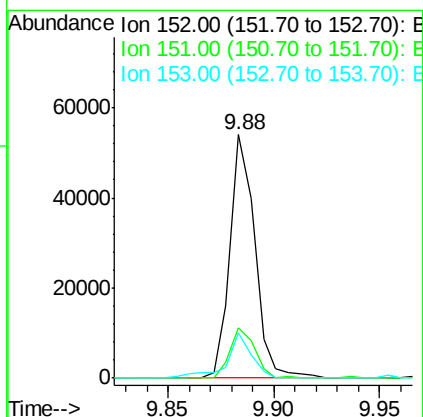
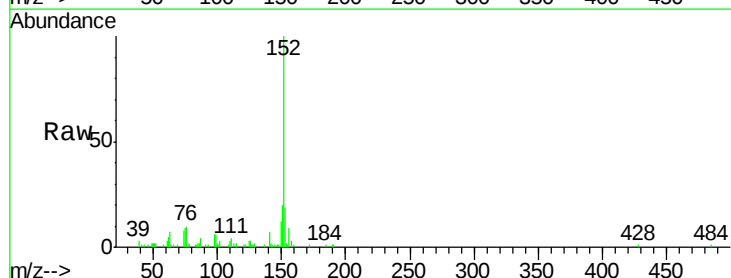
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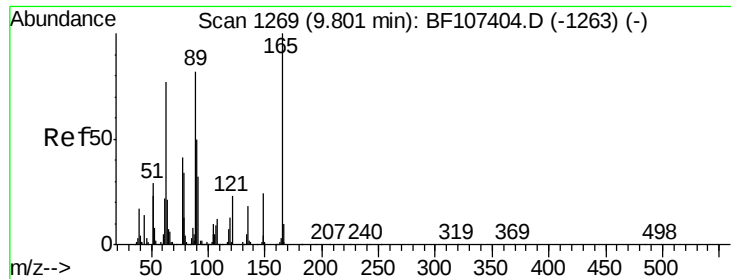
Tgt Ion:	172	Resp:	234519
Ion	Ratio	Lower	Upper
172	100		
171	38.5	29.7	44.5
170	26.2	19.6	29.4



#48
Acenaphthylene
Concen: 2.042 ng
RT: 9.88 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

Tgt Ion:	152	Resp:	44086
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.3	24.5
153	18.6	10.7	16.1#

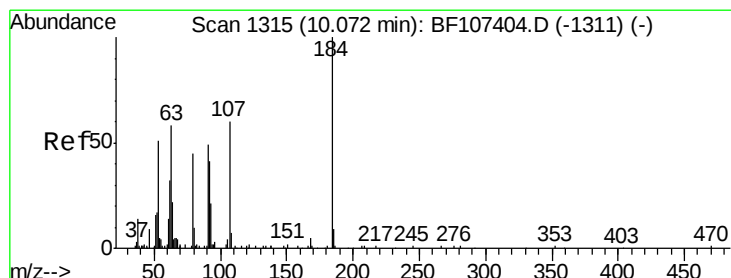
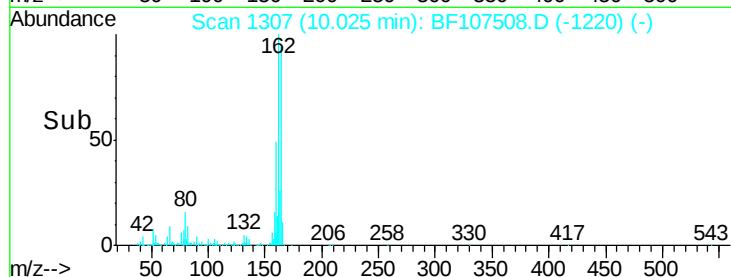
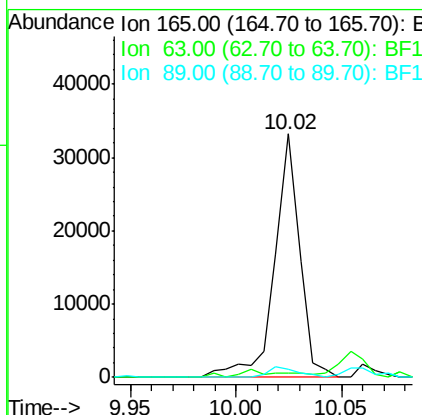
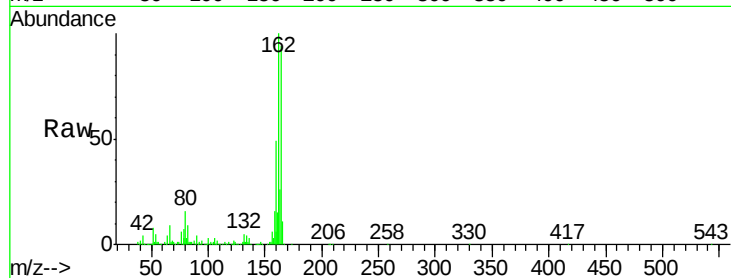




#50
2,6-Dinitrotoluene
Concen: 8.003 ng
RT: 10.02 min Scan# 1307
Delta R.T. 0.21 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

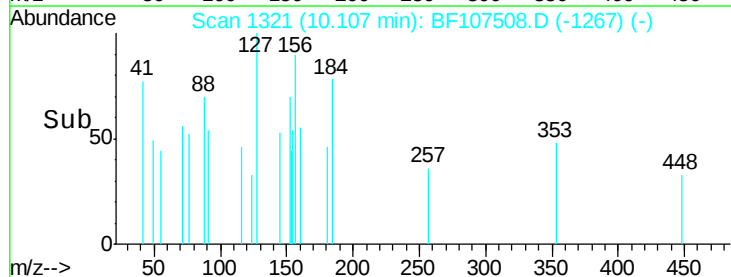
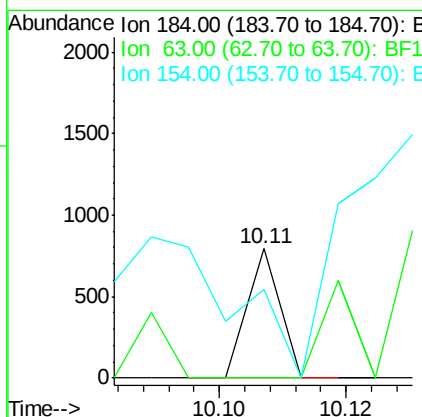
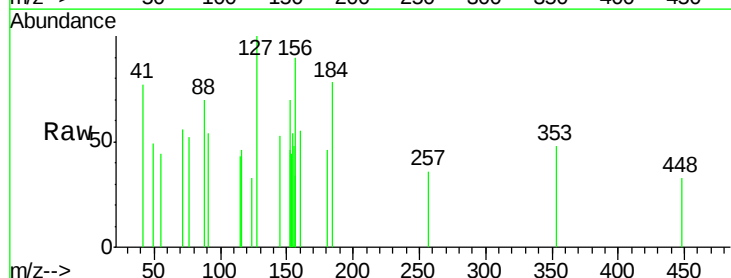
Instrument :
BNA_F
ClientSampleId :
SB3-L-12-7DL

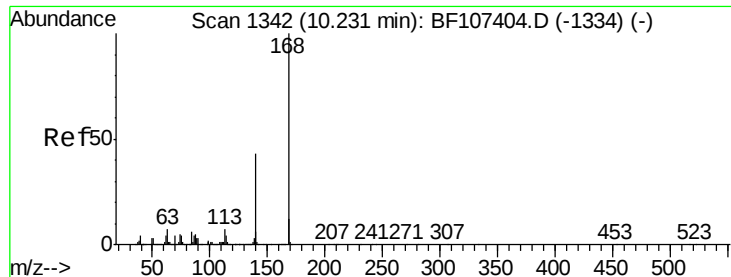
Tgt Ion:165 Resp: 27488
Ion Ratio Lower Upper
165 100
63 1.6 44.7 67.1#
89 3.5 44.0 66.0#



#53
2,4-Dinitrophenol
Concen: 2.588 ng
RT: 10.11 min Scan# 1321
Delta R.T. 0.02 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

Tgt Ion:184 Resp: 280
Ion Ratio Lower Upper
184 100
63 0.0 54.2 81.2#
154 68.6 184.0 276.0#





#54

Dibenzenofuran

Concen: 2.782 ng

RT: 10.23 min Scan# 1342

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

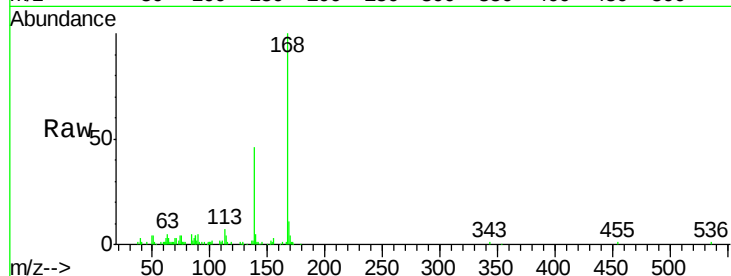
Tgt Ion:168 Resp: 61526

Ion Ratio Lower Upper

168 100

139 45.9 30.1 45.1#

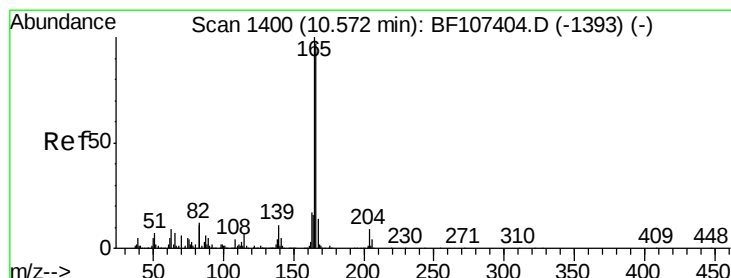
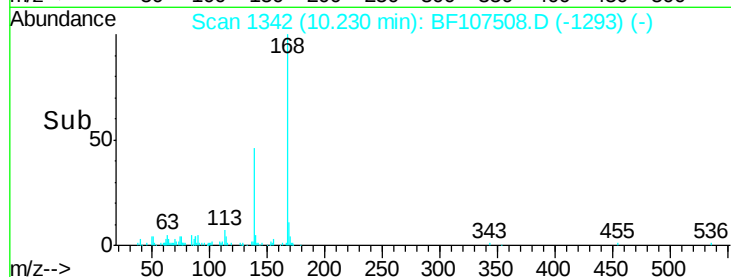
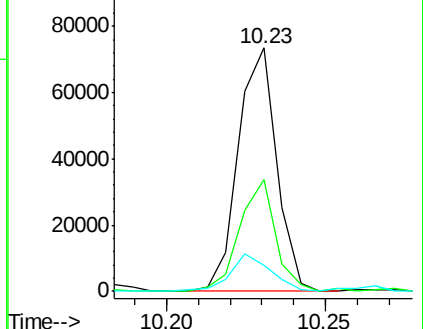
169 10.6 10.9 16.3#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 5.066 ng

RT: 10.57 min Scan# 1400

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

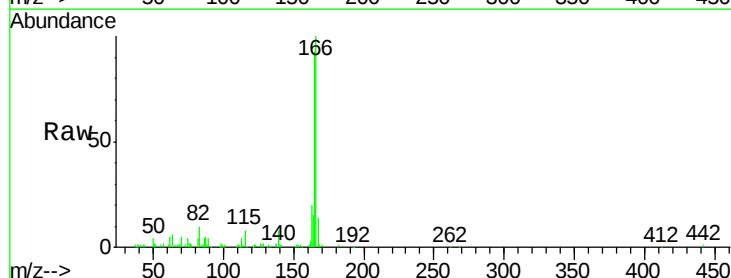
Tgt Ion:166 Resp: 74201

Ion Ratio Lower Upper

166 100

165 93.3 79.8 119.8

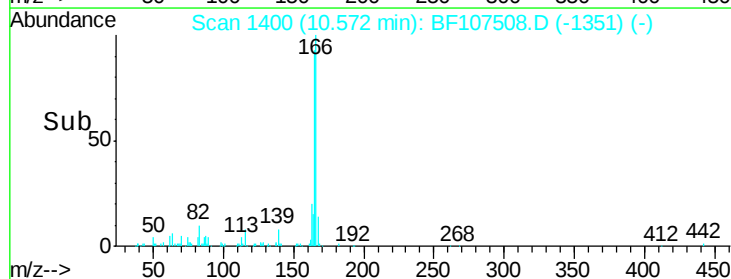
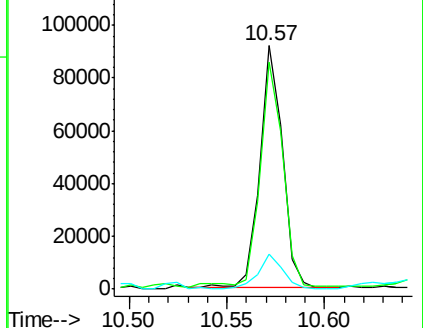
167 14.5 10.6 16.0

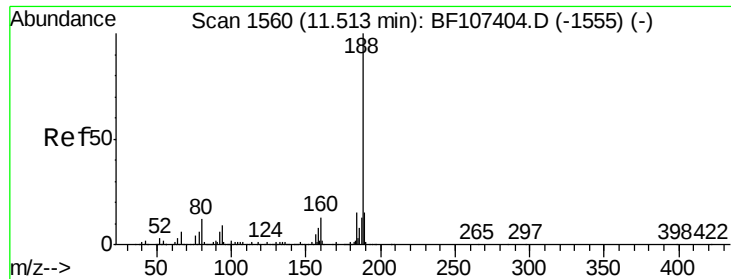


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

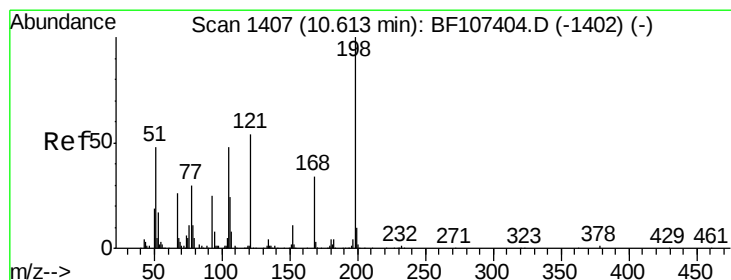
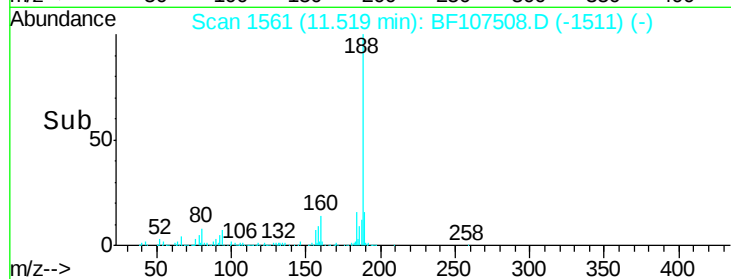
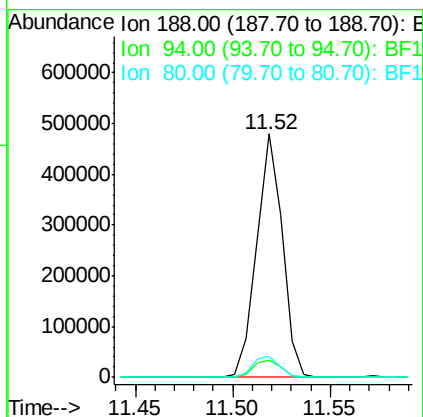
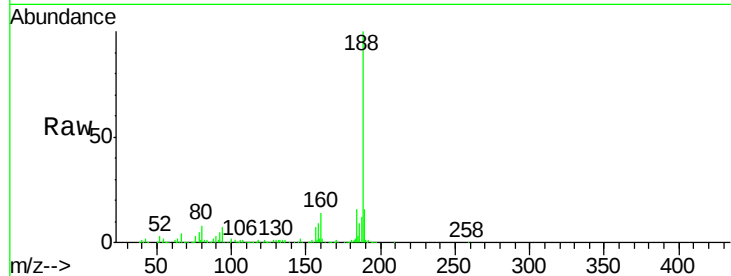




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

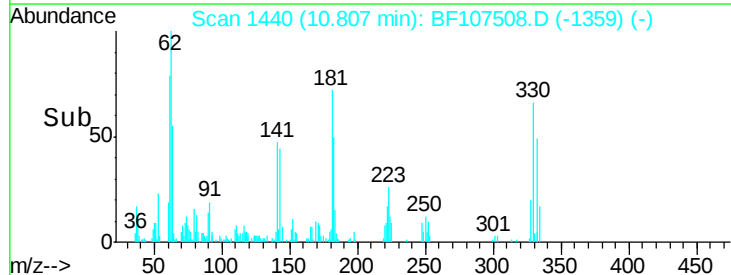
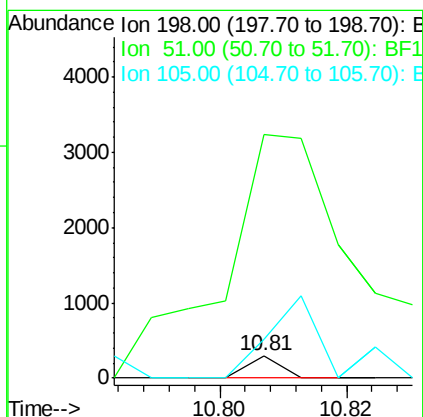
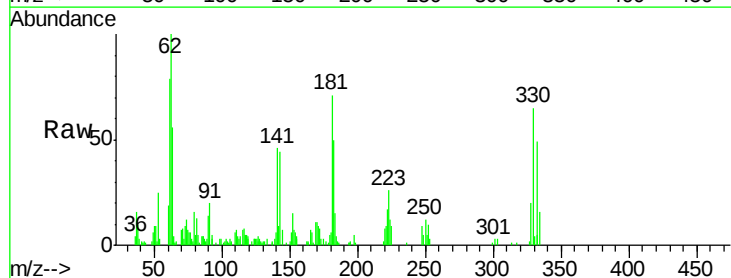
Instrument :
BNA_F
ClientSampleId :
SB3-L-12-7DL

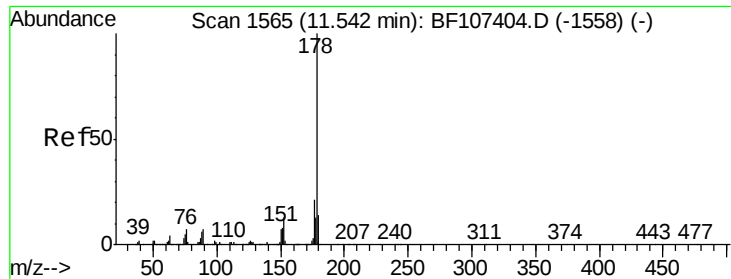
Tgt Ion:188 Resp: 438201
Ion Ratio Lower Upper
188 100
94 6.9 8.5 12.7#
80 8.4 9.2 13.8#



#64
4,6-Dinitro-2-methylphenol
Concen: 7.528 ng
RT: 10.81 min Scan# 1440
Delta R.T. 0.18 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

Tgt Ion:198 Resp: 107
Ion Ratio Lower Upper
198 100
51 1068.0 37.7 77.7#
105 172.3 36.3 76.3#





#70

Phenanthrene

Concen: 43.538 ng

RT: 11.55 min Scan# 1566

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

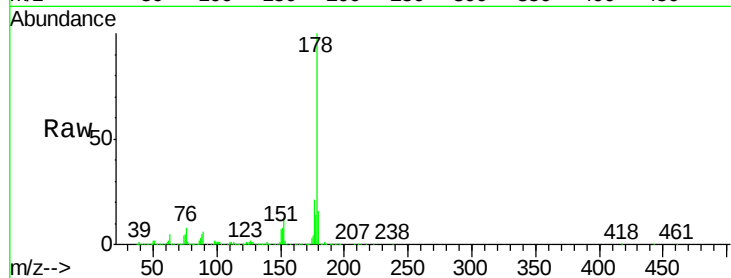
Tgt Ion:178 Resp: 950789

Ion Ratio Lower Upper

178 100

176 21.1 15.8 23.8

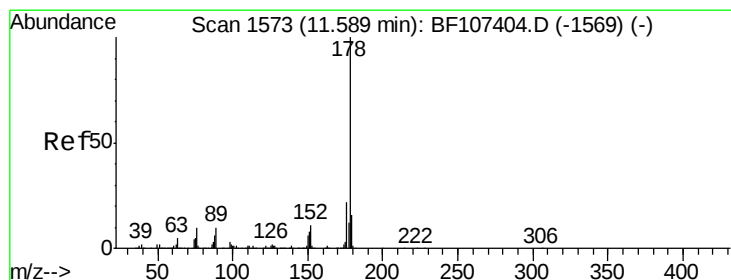
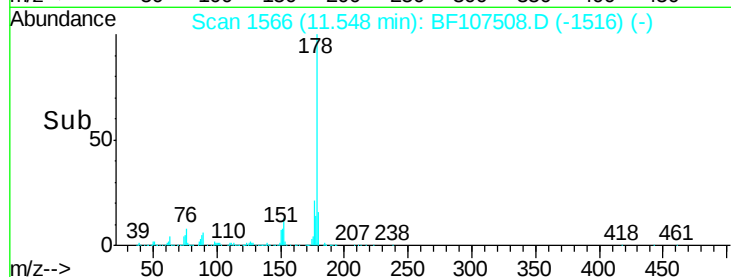
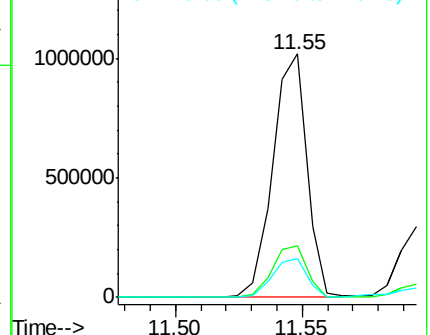
179 16.1 13.0 19.6



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: 10.410 ng

RT: 11.60 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

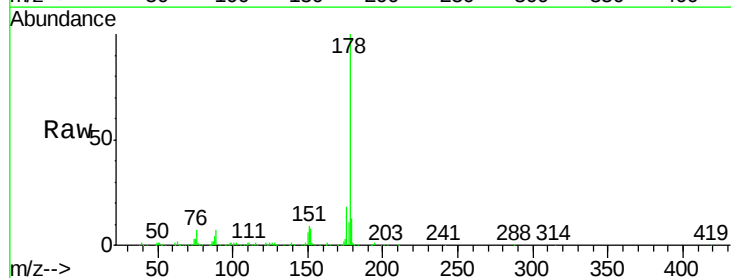
Tgt Ion:178 Resp: 226428

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.2

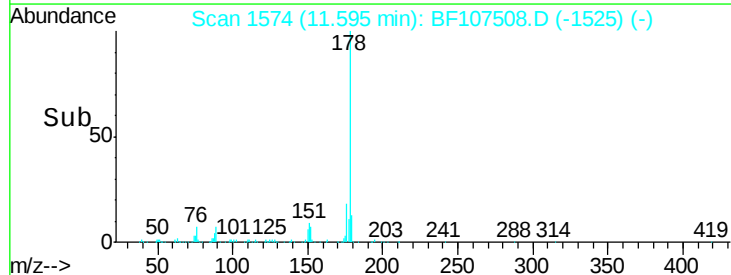
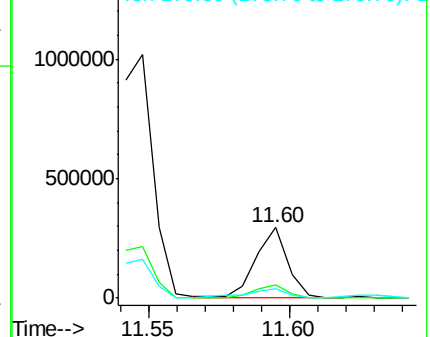
179 12.8 12.6 19.0

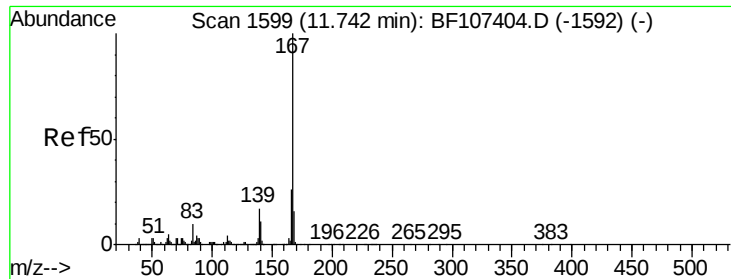


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.980 ng

RT: 11.75 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

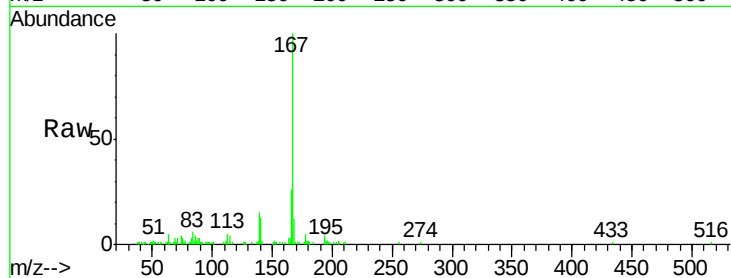
Tgt Ion:167 Resp: 61373

Ion Ratio Lower Upper

167 100

166 25.6 17.6 26.4

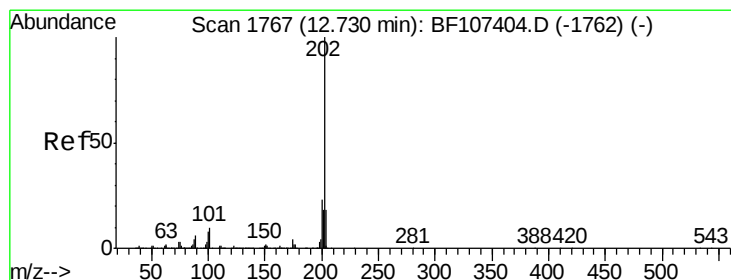
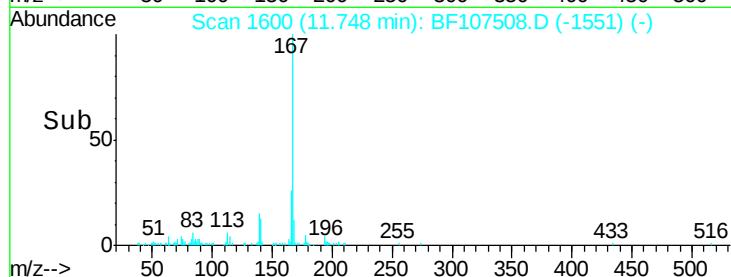
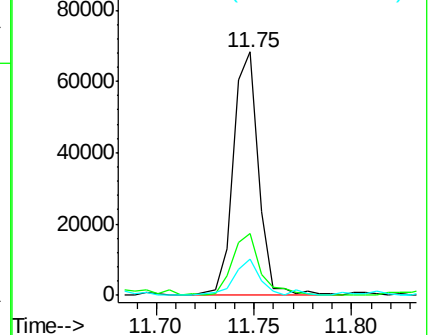
139 14.7 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 48.105 ng

RT: 12.74 min Scan# 1769

Delta R.T. 0.00 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

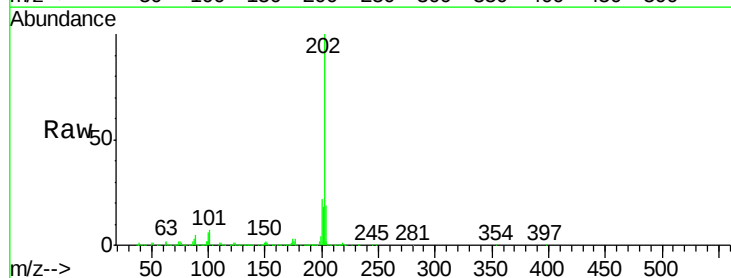
Tgt Ion:202 Resp: 1194011

Ion Ratio Lower Upper

202 100

101 7.3 0.0 34.1

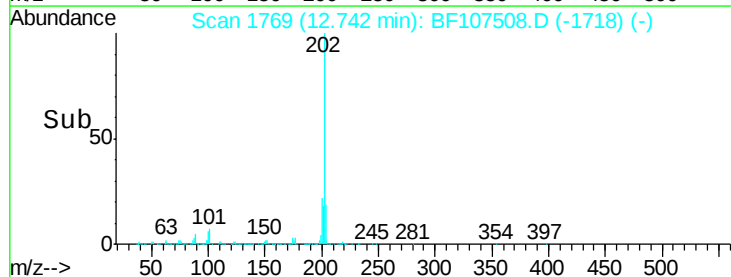
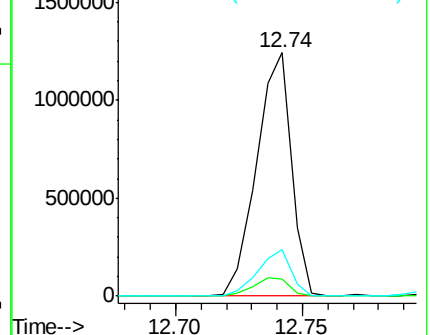
203 19.0 0.0 38.1

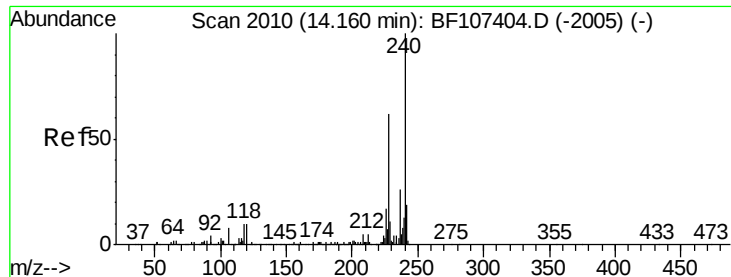


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.17 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

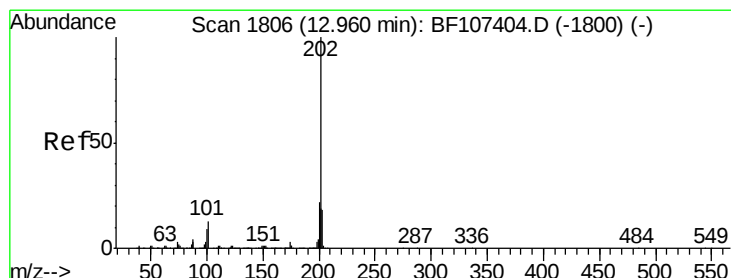
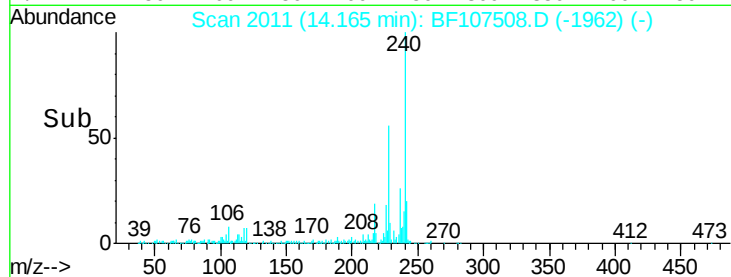
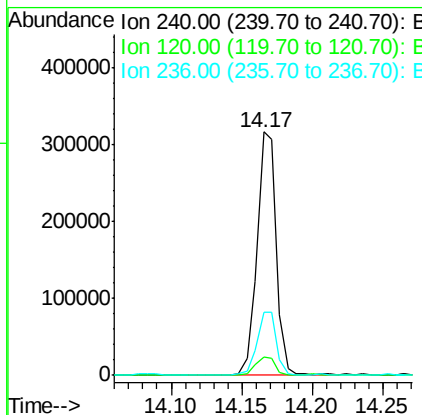
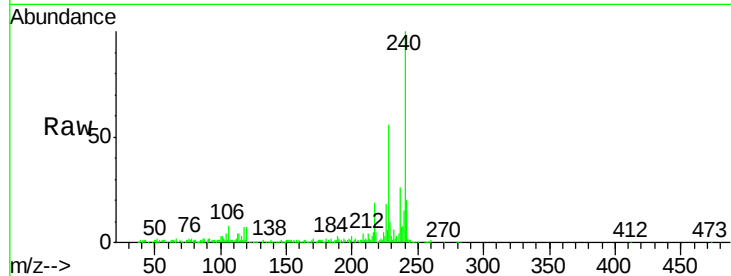
Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.4	9.5	14.3#
236	25.9	20.7	31.1



#77

Pyrene

Concen: 50.299 ng

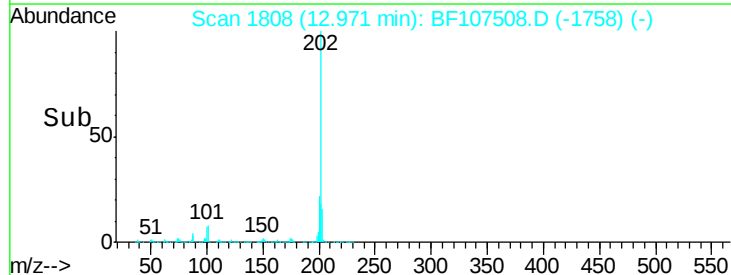
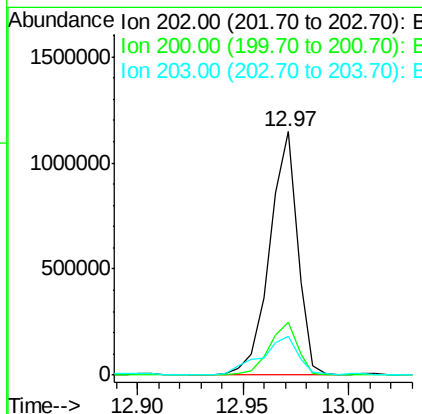
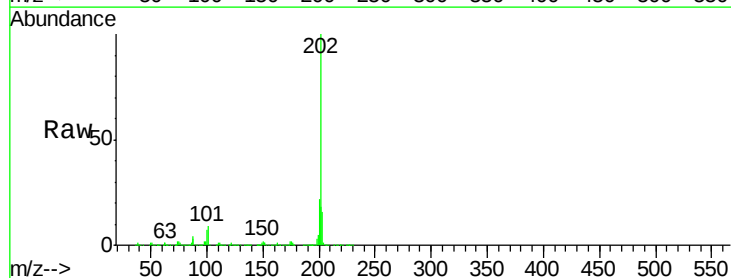
RT: 12.97 min Scan# 1808

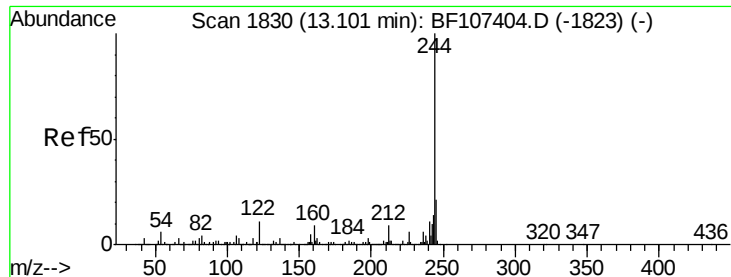
Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.2
203	16.0	14.3	21.5





#78

Terphenyl-d14

Concen: 18.459 ng

RT: 13.10 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

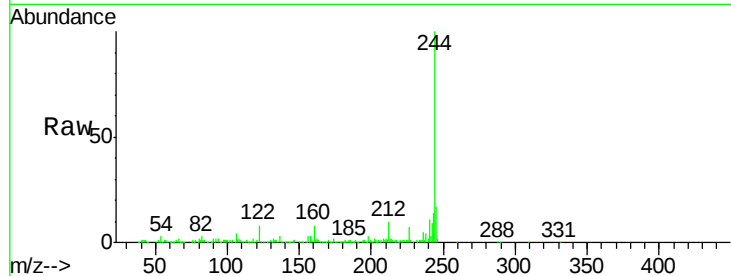
Tgt Ion:244 Resp: 229018

Ion Ratio Lower Upper

244 100

212 9.7 5.4 8.0#

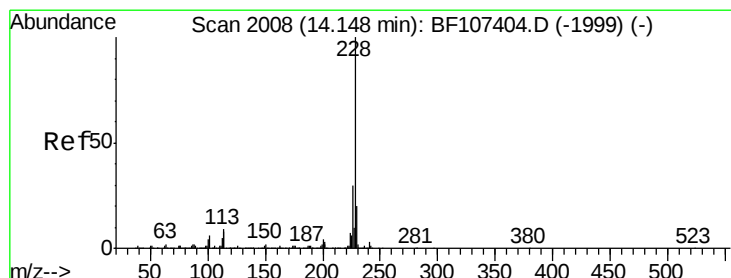
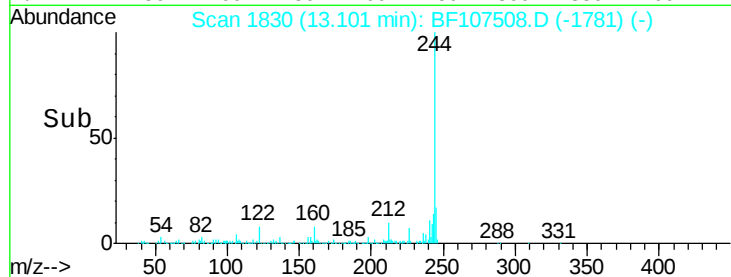
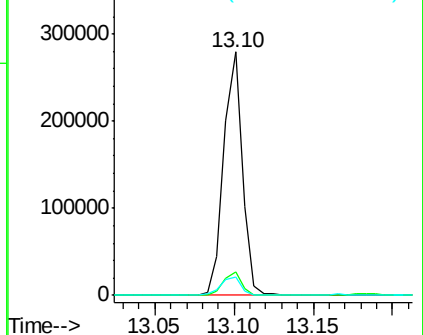
122 7.6 11.0 16.4#



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: 26.793 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

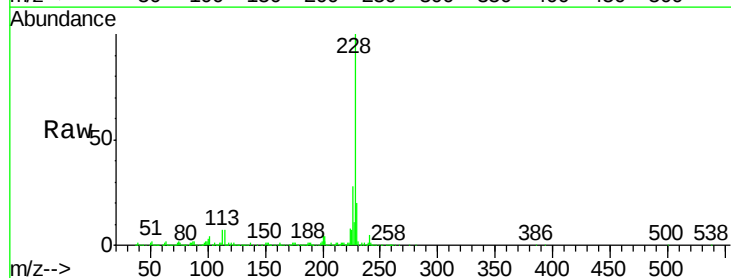
Tgt Ion:228 Resp: 505333

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

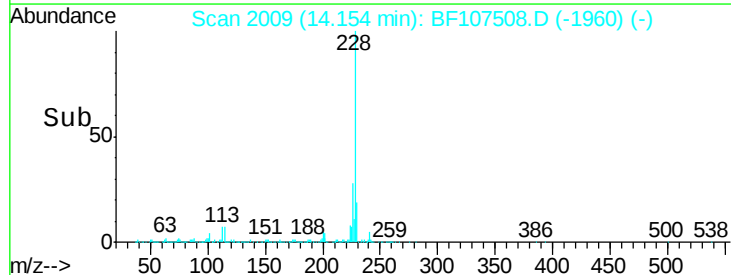
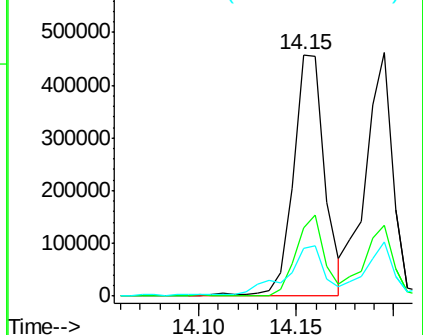
229 19.9 15.8 23.6

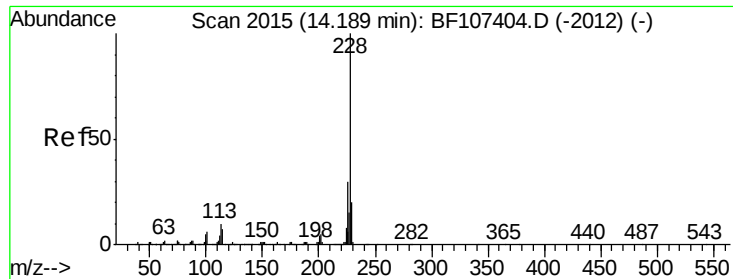


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 24.755 ng

RT: 14.19 min Scan# 2016

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

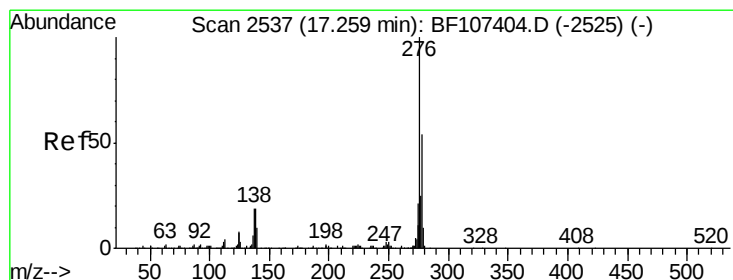
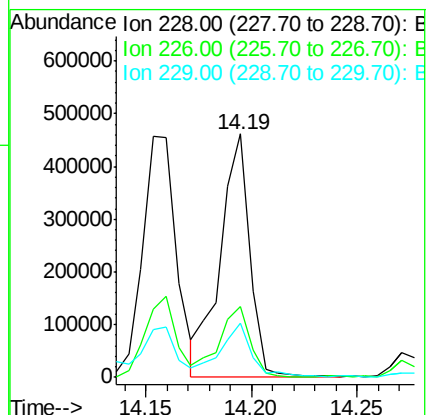
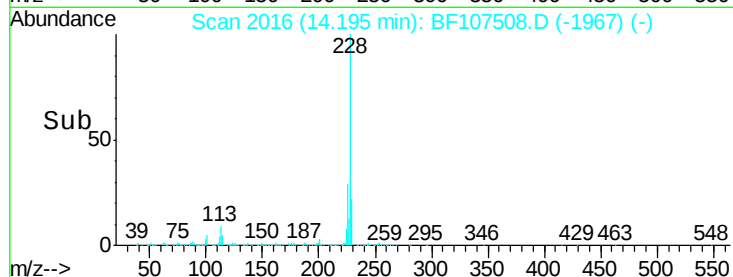
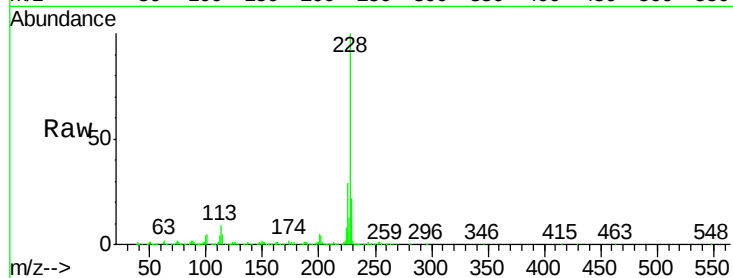
Tgt Ion:228 Resp: 446014

Ion Ratio Lower Upper

228 100

226 29.0 25.0 37.6

229 22.3 16.2 24.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 18.506 ng

RT: 17.27 min Scan# 2539

Delta R.T. -0.03 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

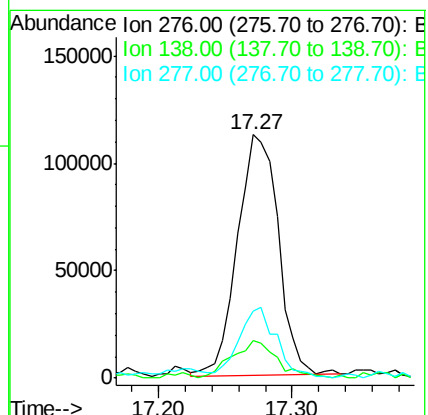
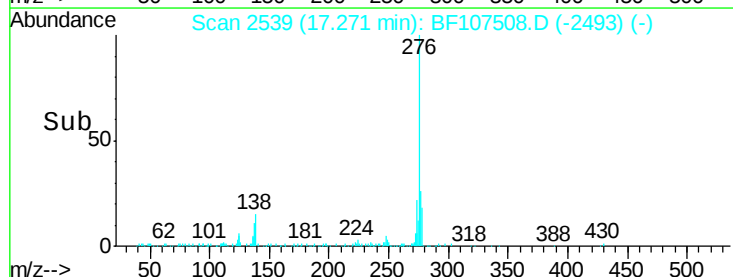
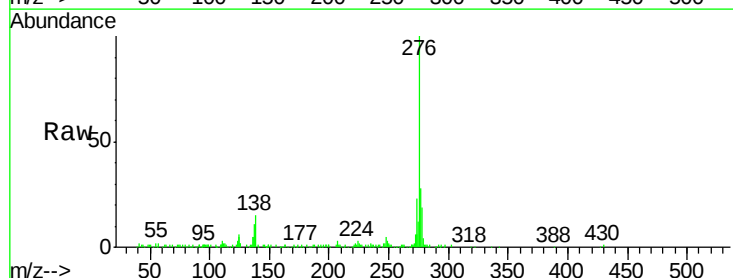
Tgt Ion:276 Resp: 237335

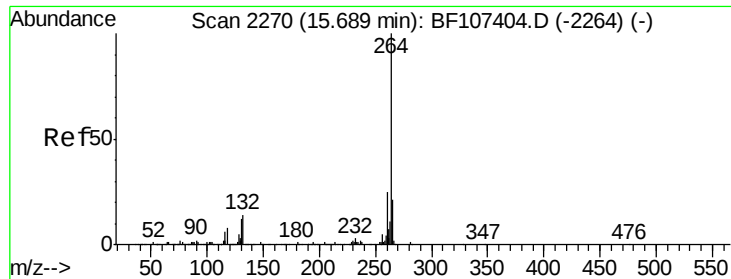
Ion Ratio Lower Upper

276 100

138 17.5 25.0 37.6#

277 27.4 20.1 30.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.71 min Scan# 2273

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

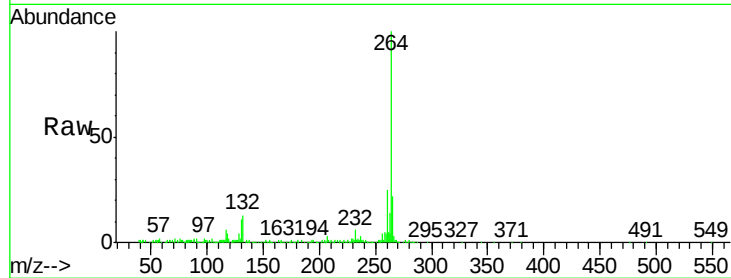
Tgt Ion:264 Resp: 319226

Ion Ratio Lower Upper

264 100

260 25.2 19.2 28.8

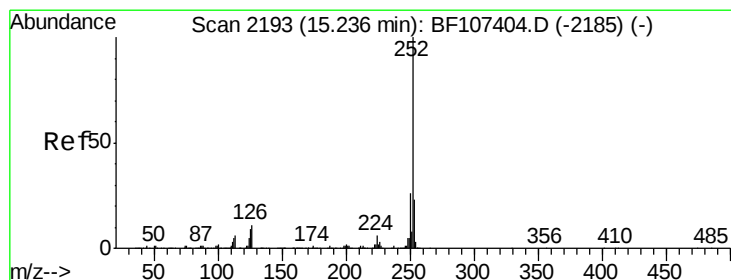
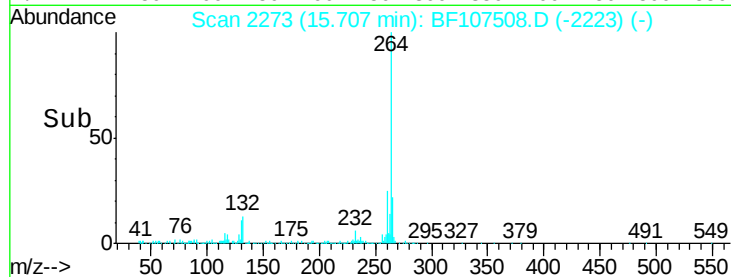
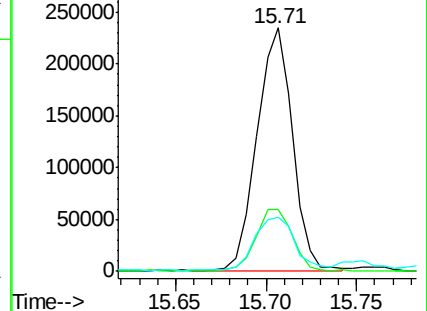
265 22.0 17.5 26.3



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: 39.704 ng

RT: 15.25 min Scan# 2195

Delta R.T. -0.01 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

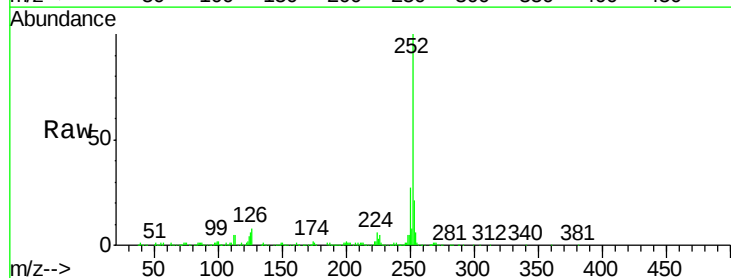
Tgt Ion:252 Resp: 741852

Ion Ratio Lower Upper

252 100

253 21.2 17.0 25.6

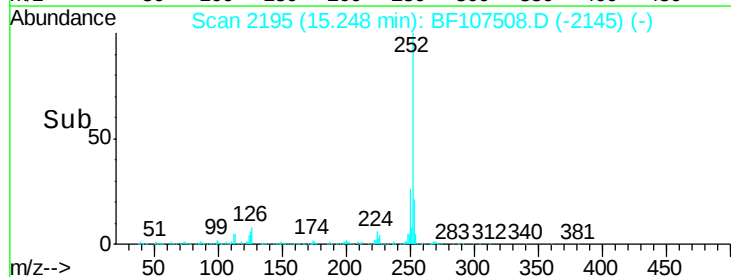
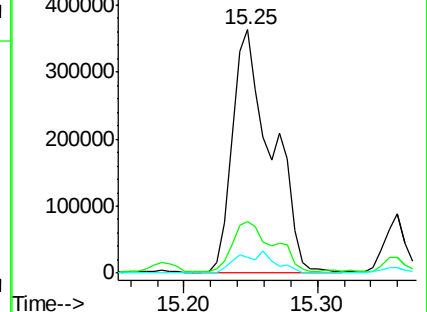
125 6.4 9.0 13.6#

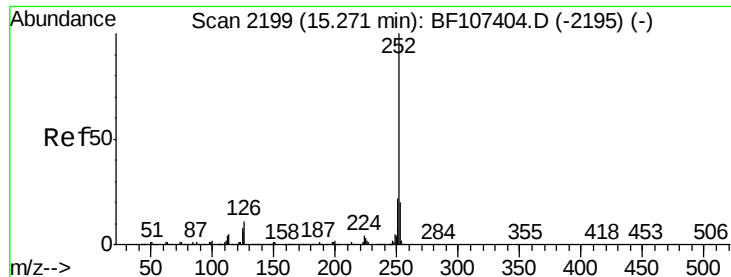


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

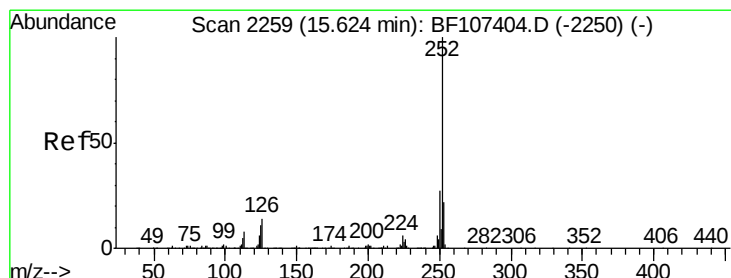
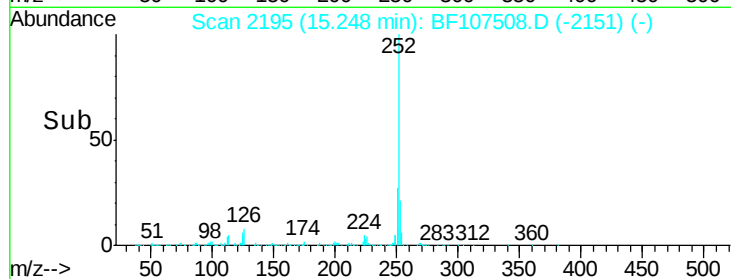
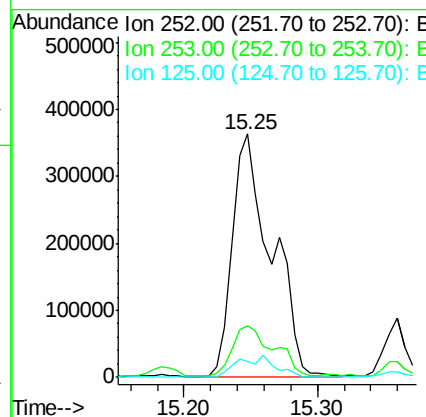
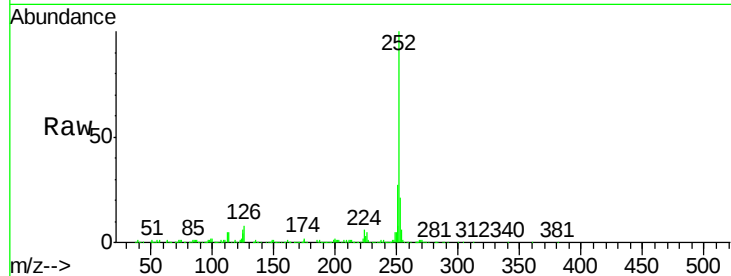




#88
Benzo(k)fluoranthene
Concen: 40.684 ng
RT: 15.25 min Scan# 2195
Delta R.T. -0.04 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

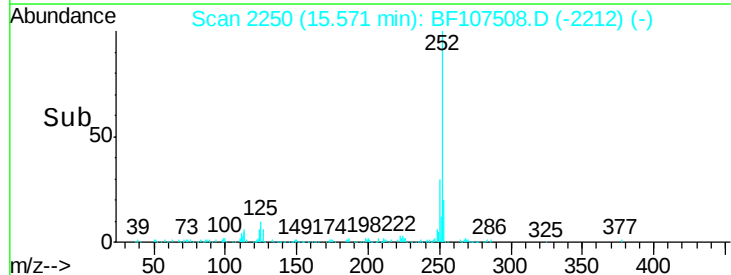
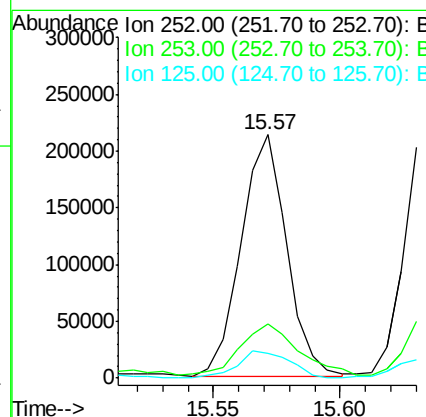
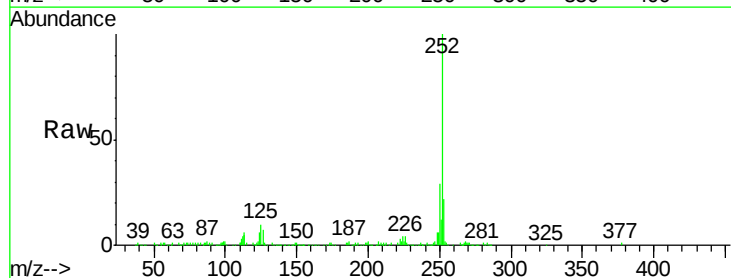
Instrument :
BNA_F
ClientSampleId :
SB3-L-12-7DL

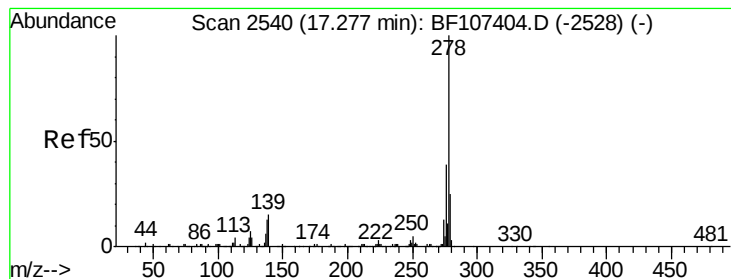
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.9	26.9
125	6.4	10.2	15.2#



#89
Benzo(a)pyrene
Concen: 15.465 ng
RT: 15.57 min Scan# 2250
Delta R.T. -0.08 min
Lab File: BF107508.D
Acq: 19 Jul 2018 11:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	10.3	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 4.849 ng

RT: 17.29 min Scan# 2542

Delta R.T. -0.02 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

Instrument :

BNA_F

ClientSampleId :

SB3-L-12-7DL

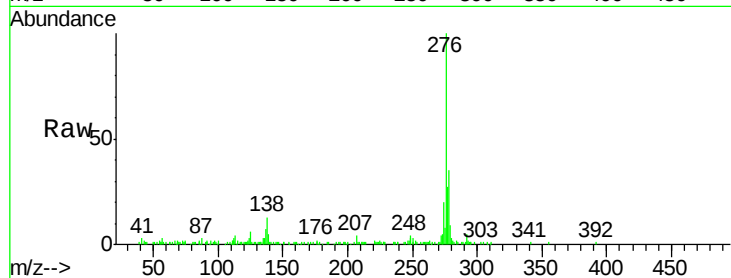
Tgt Ion:278 Resp: 62766

Ion Ratio Lower Upper

278 100

139 15.6 15.9 23.9#

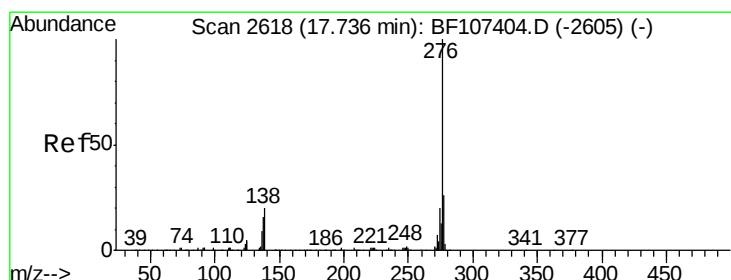
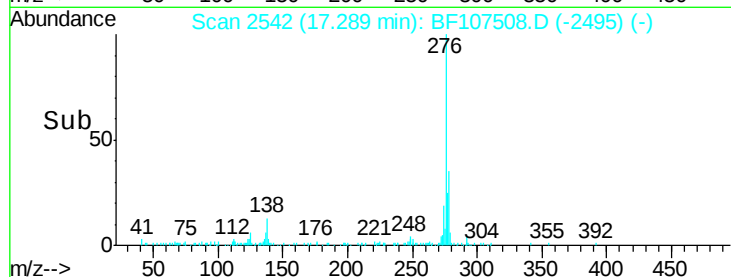
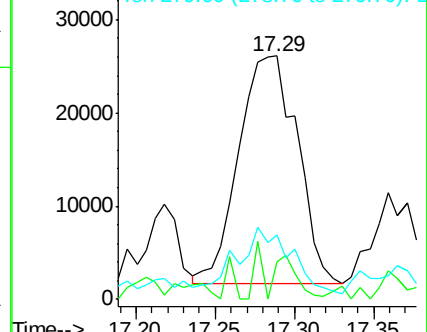
279 26.6 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 17.693 ng

RT: 17.75 min Scan# 2621

Delta R.T. -0.02 min

Lab File: BF107508.D

Acq: 19 Jul 2018 11:08

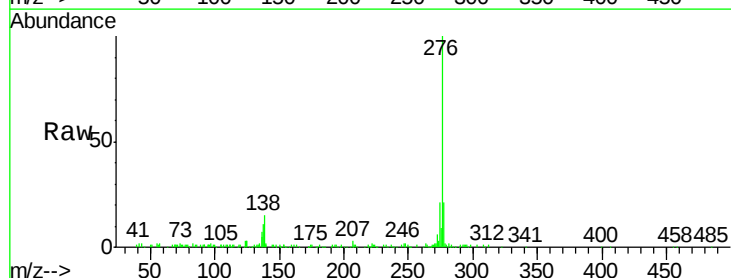
Tgt Ion:276 Resp: 232693

Ion Ratio Lower Upper

276 100

277 20.5 17.9 26.9

138 15.1 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

