

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082118\
 Data File : BF108349.D
 Acq On : 21 Aug 2018 20:41
 Operator : JU/SJ
 Sample : J4521-19DL 4X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11967DL

Quant Time: Aug 21 23:19:07 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 21 15:20:21 2018
 Response via : Initial Calibration

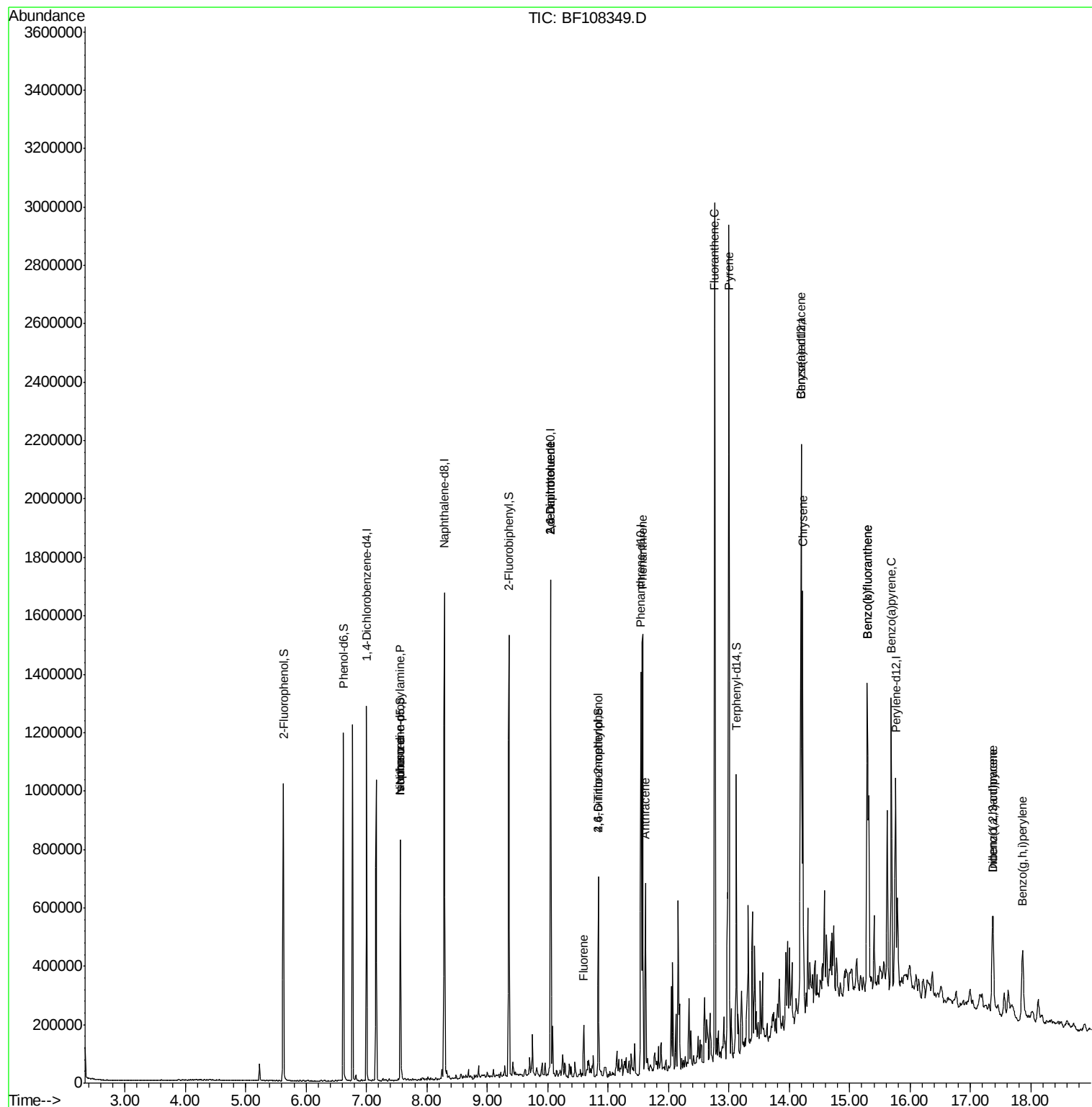
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	187169	20.00	ng	-0.01
21) Naphthalene-d8	8.29	136	692962	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	315869	20.00	ng	-0.02
63) Phenanthrene-d10	11.54	188	509028	20.00	ng	-0.02
75) Chrysene-d12	14.20	240	382231	20.00	ng	-0.02
86) Perylene-d12	15.76	264	360938	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	268225	25.94	ng	0.00
7) Phenol-d6	6.62	99	365546	26.61	ng	-0.01
23) Nitrobenzene-d5	7.56	82	234342	18.87	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	74482	23.64	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	439816	22.35	ng	-0.02
78) Terphenyl-d14	13.12	244	323424	21.51	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.56	70	31822	3.425	ng	Qvalue # 86
25) Isophorone	7.56	82	234339	9.900	ng	# 64
50) 2,6-Dinitrotoluene	10.05	165	41963	9.116	ng	# 26
56) 2,4-Dinitrotoluene	10.05	165	41963	7.082	ng	# 23
57) Fluorene	10.60	166	49249	2.409	ng	96
64) 4,6-Dinitro-2-methylphenol	10.84	198	110	5.410	ng	# 1
70) Phenanthrene	11.57	178	589282	24.544	ng	98
71) Anthracene	11.62	178	228134	9.271	ng	99
74) Fluoranthene	12.77	202	1236436	47.187	ng	96
77) Pyrene	13.00	202	1155404	47.746	ng	98
80) Benzo(a)anthracene	14.19	228	679634	30.982	ng	98
82) Chrysene	14.22	228	543479	27.024	ng	97
85) Indeno(1,2,3-cd)pyrene	17.37	276	240984	13.830	ng	# 87
87) Benzo(b)fluoranthene	15.29	252	948982	44.000	ng	96
88) Benzo(k)fluoranthene	15.29	252	948982	47.866	ng	# 96
89) Benzo(a)pyrene	15.69	252	517183	26.779	ng	94
90) Dibenzo(a,h)anthracene	17.37	278	66092	4.136	ng	# 92
91) Benzo(g,h,i)perylene	17.86	276	212106	13.480	ng	# 89

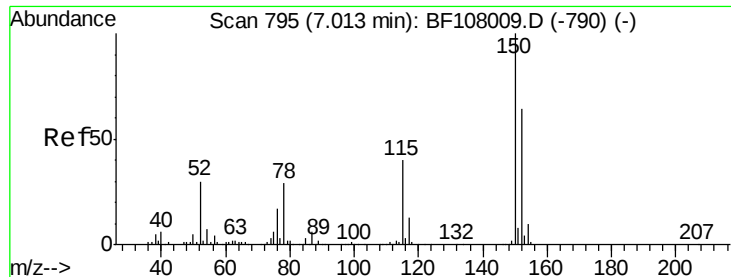
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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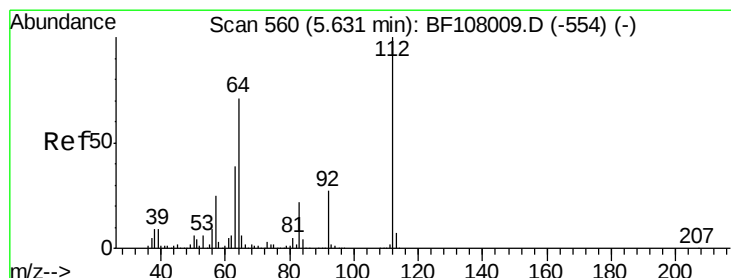
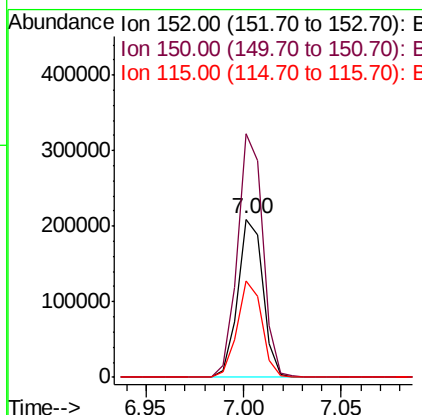
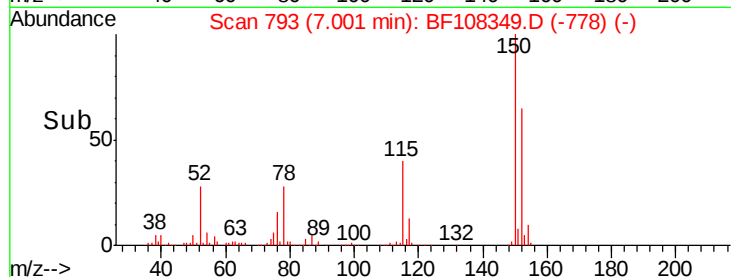
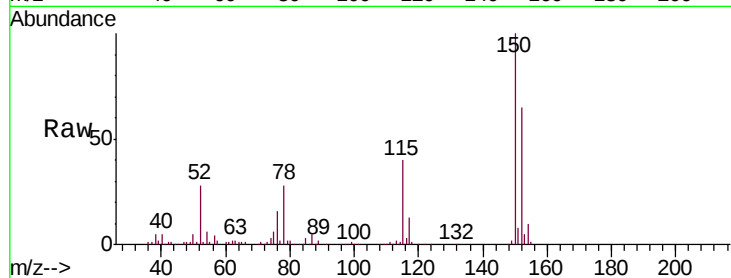


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Instrument :
BNA_F
ClientSampleId :
72-11967DL

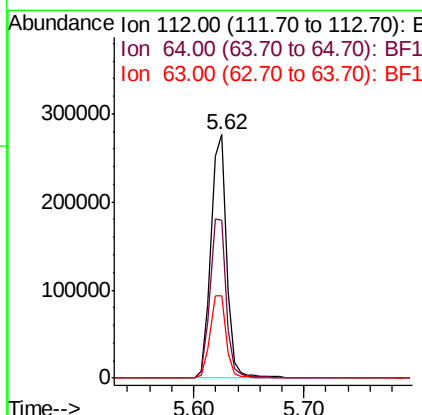
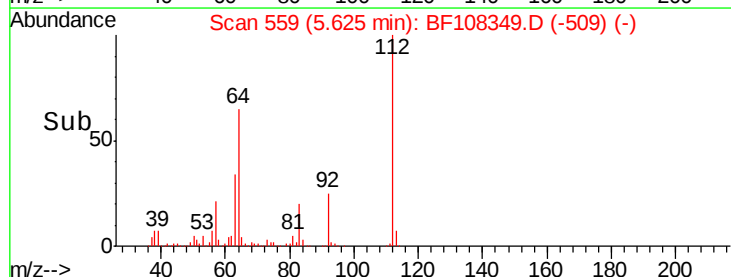
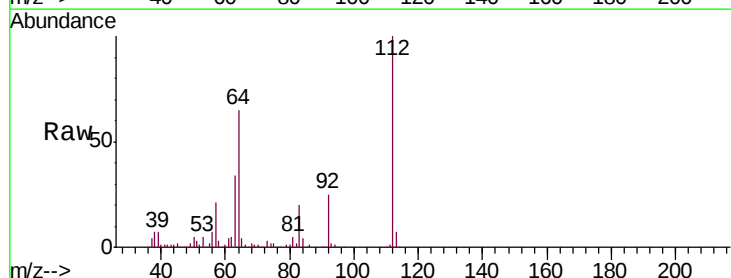
Tgt Ion:152 Resp: 187169
Ion Ratio Lower Upper
152 100
150 153.9 124.6 186.8
115 60.9 50.1 75.1

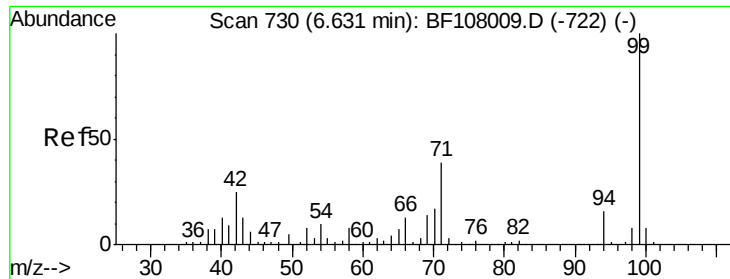


#5

2-Fluorophenol
Concen: 25.945 ng
RT: 5.62 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Tgt Ion:112 Resp: 268225
Ion Ratio Lower Upper
112 100
64 64.9 47.9 71.9
63 33.6 23.7 35.5





#7

Phenol-d6

Concen: 26.608 ng

RT: 6.62 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

ClientSampleId :

72-11967DL

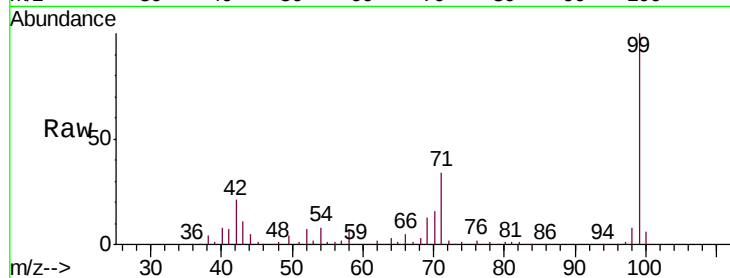
Tgt Ion: 99 Resp: 365546

Ion Ratio Lower Upper

99 100

42 21.1 14.5 21.7

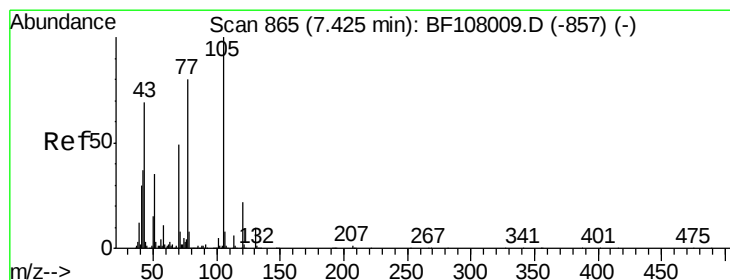
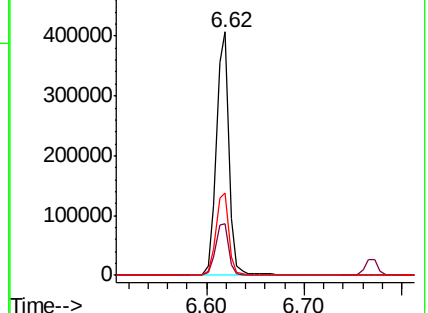
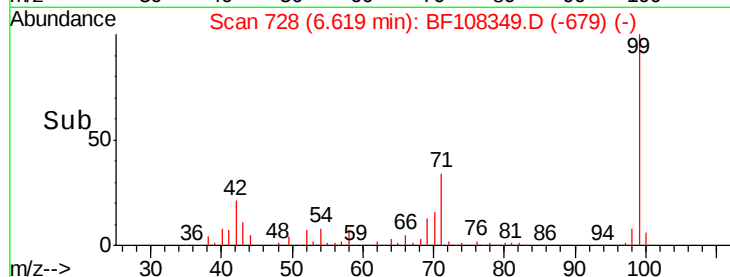
71 33.8 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 3.425 ng

RT: 7.56 min Scan# 888

Delta R.T. 0.14 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Tgt Ion: 70 Resp: 31822

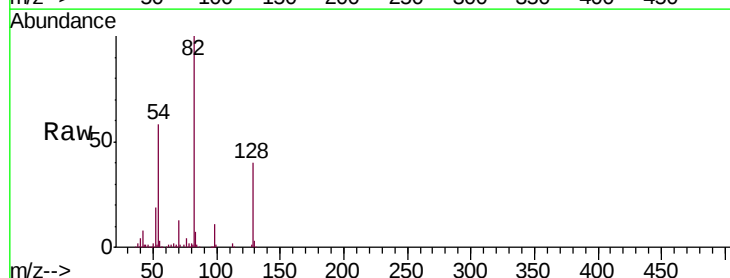
Ion Ratio Lower Upper

70 100

42 57.5 47.5 71.3

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

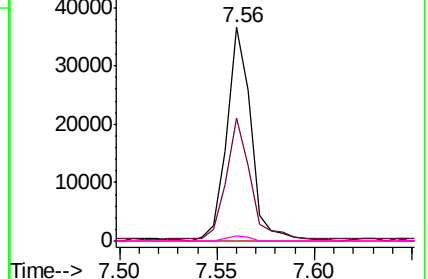
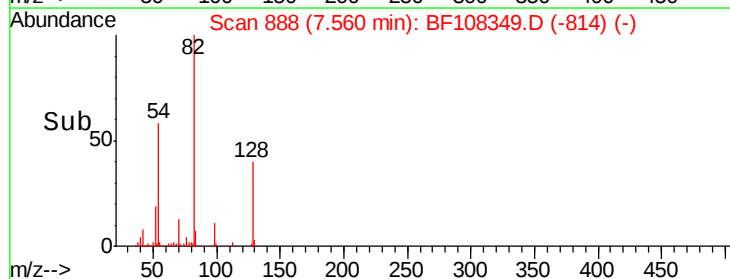


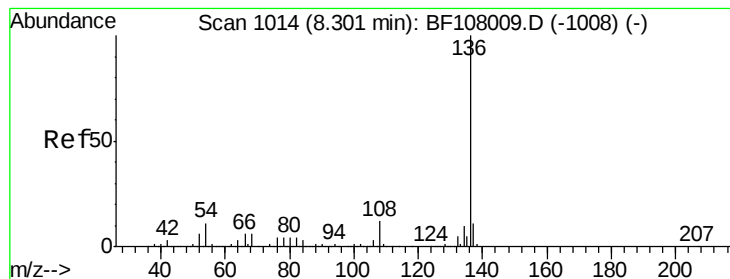
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.29 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

ClientSampleId :

72-11967DL

Tgt Ion: 136 Resp: 692962

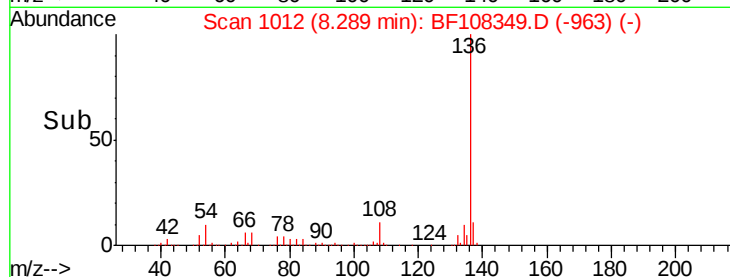
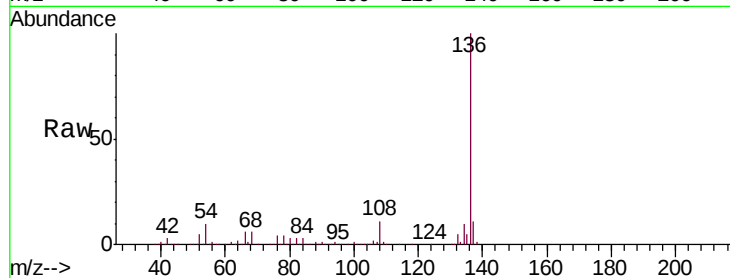
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 9.8 6.6 9.8

68 5.9 5.0 7.4

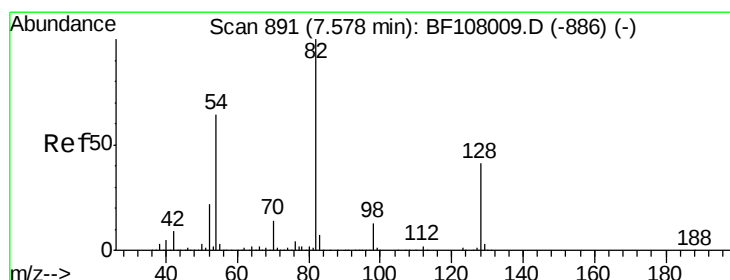
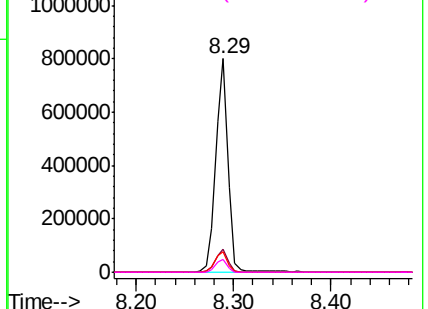


Abundance Ion 136.00 (135.70 to 136.70): E

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: 18.871 ng

RT: 7.56 min Scan# 888

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

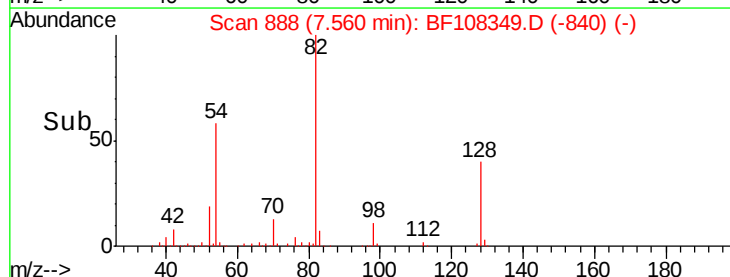
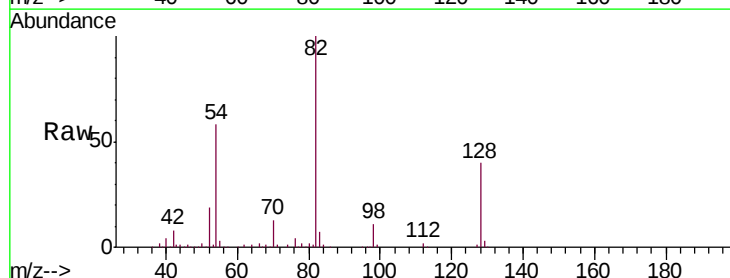
Tgt Ion: 82 Resp: 234342

Ion Ratio Lower Upper

82 100

128 40.3 36.1 54.1

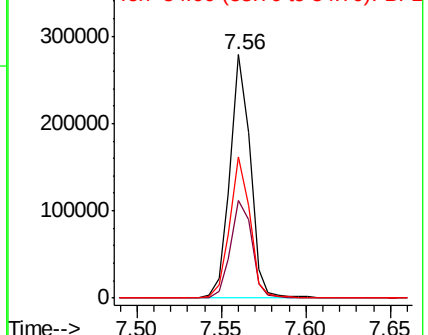
54 58.1 41.4 62.2

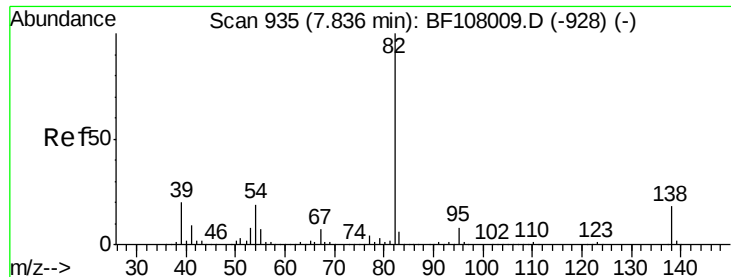


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 9.900 ng

RT: 7.56 min Scan# 888

Delta R.T. -0.28 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

ClientSampleId :

72-11967DL

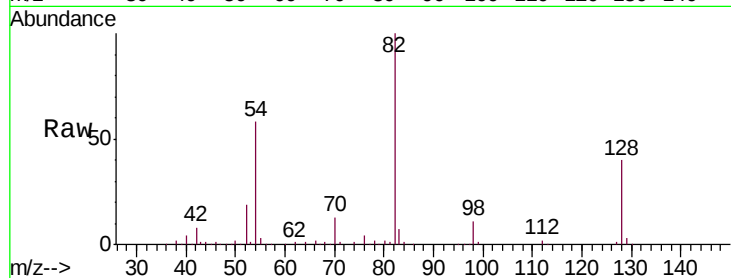
Tgt Ion: 82 Resp: 234339

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

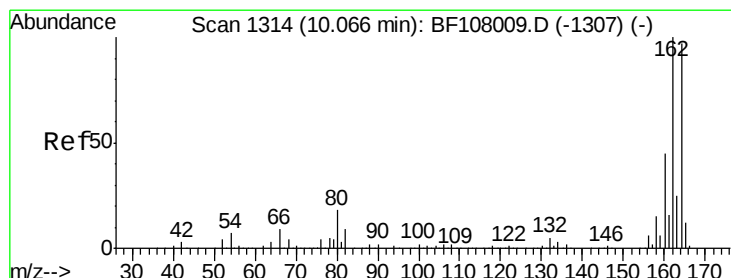
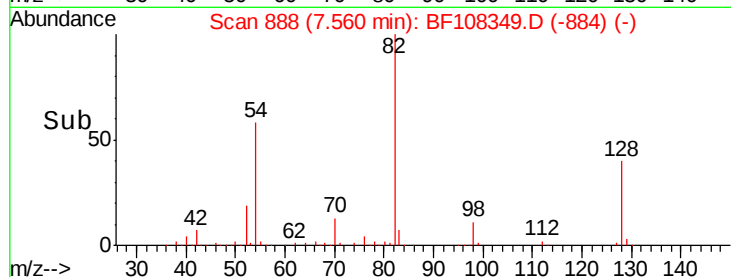
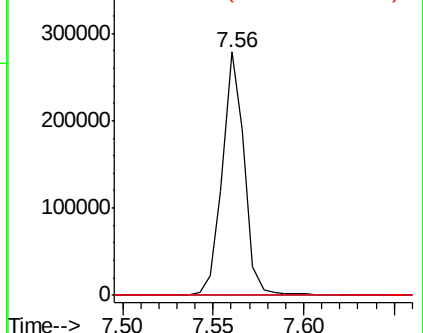
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.05 min Scan# 1311

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

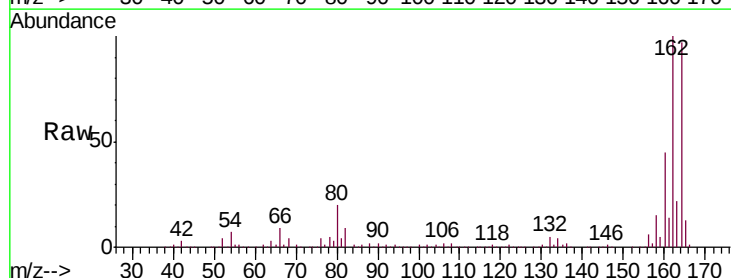
Tgt Ion: 164 Resp: 315869

Ion Ratio Lower Upper

164 100

162 103.2 86.1 129.1

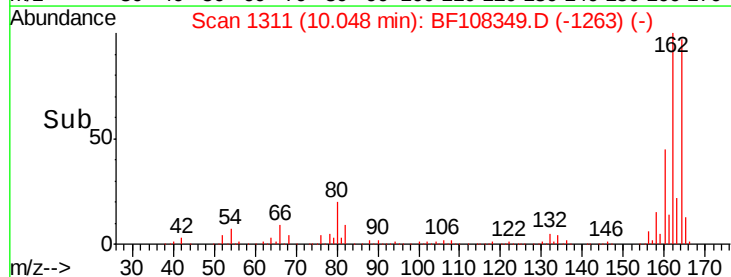
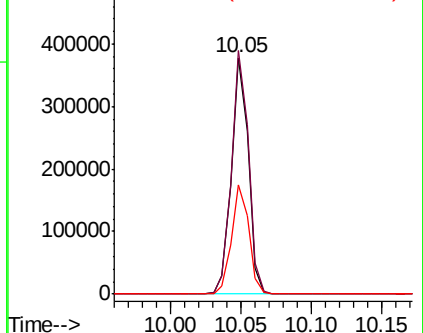
160 46.2 38.3 57.5

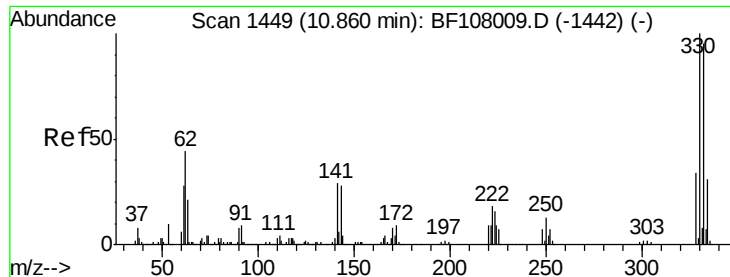


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

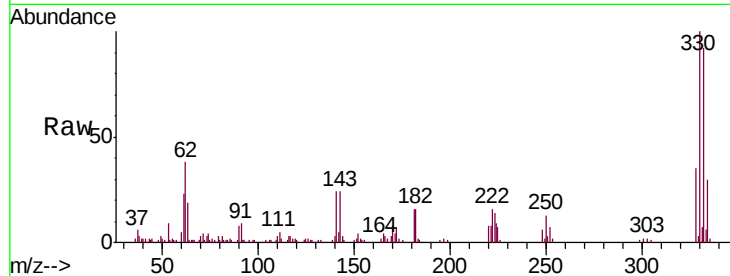




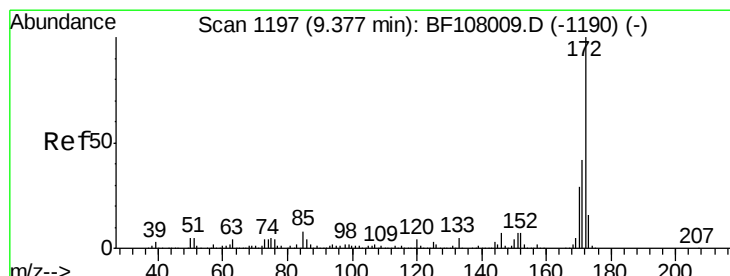
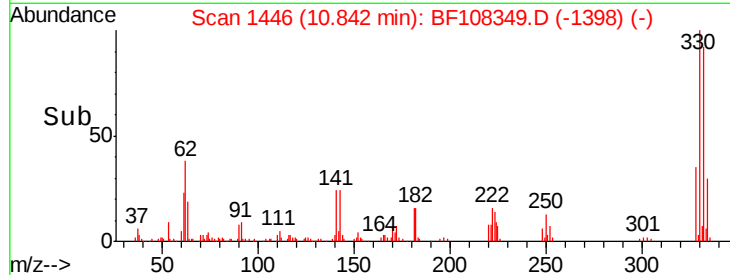
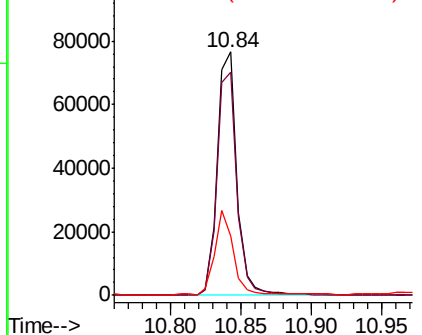
#41
 2,4,6-Tribromophenol
 Concen: 23.640 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Instrument :
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Tgt Ion:330 Resp: 74482
 Ion Ratio Lower Upper
 330 100
 332 93.5 77.0 115.6
 141 33.9 29.9 44.9

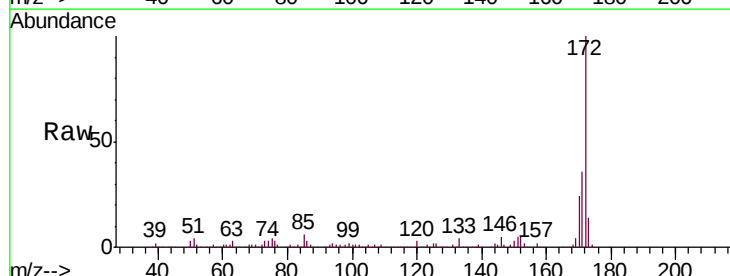


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

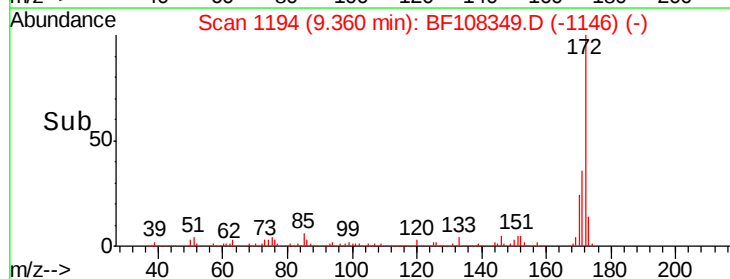
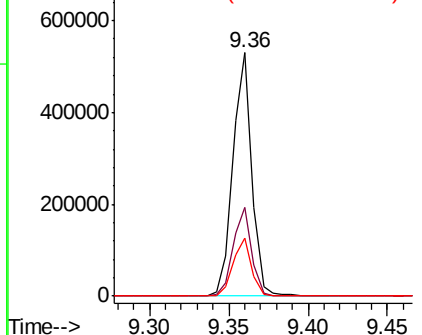


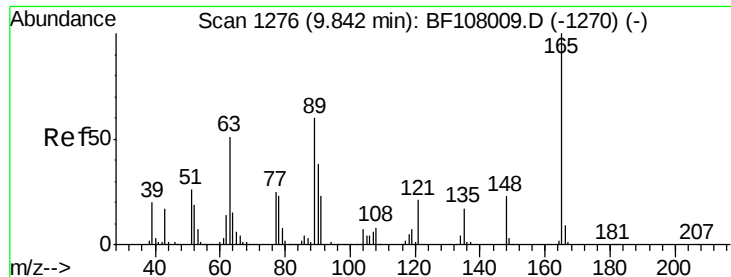
#44
 2-Fluorobiphenyl
 Concen: 22.355 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Tgt Ion:172 Resp: 439816
 Ion Ratio Lower Upper
 172 100
 171 36.4 29.7 44.5
 170 23.8 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

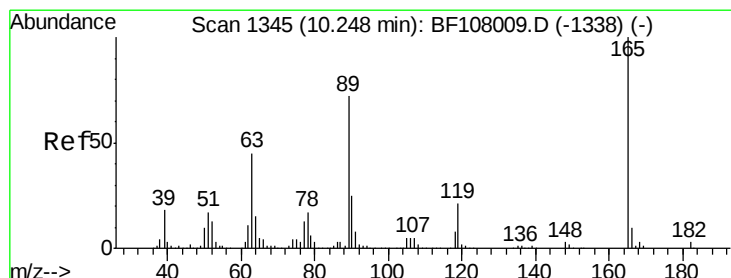
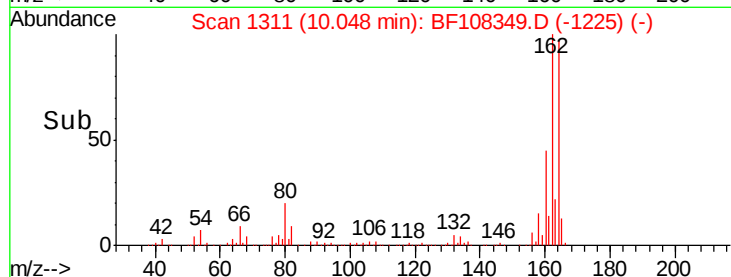
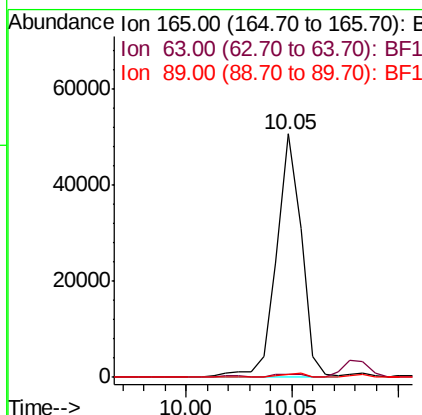
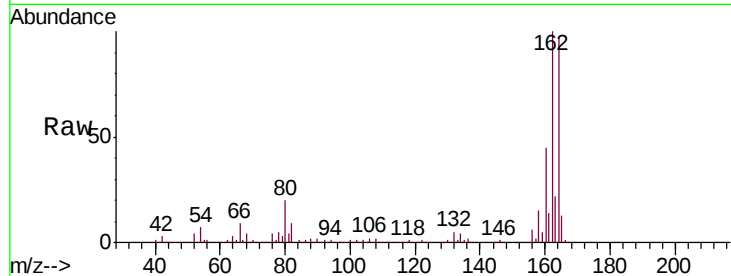




#50
 2,6-Dinitrotoluene
 Concen: 9.116 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. 0.21 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

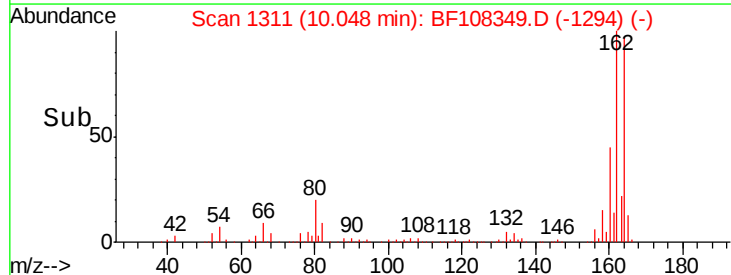
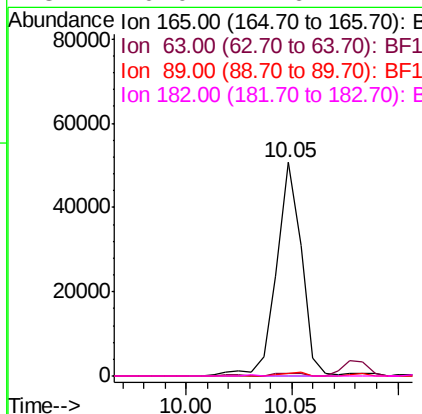
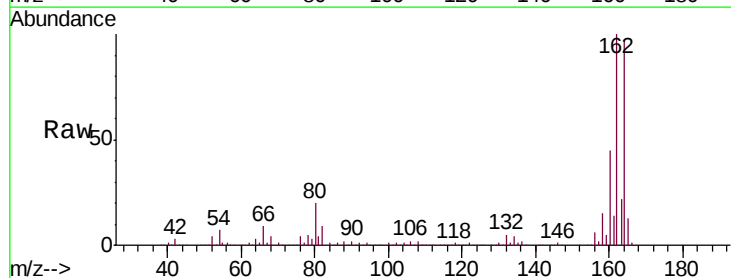
Instrument :
 BNA_F
 ClientSampleId :
 72-11967DL

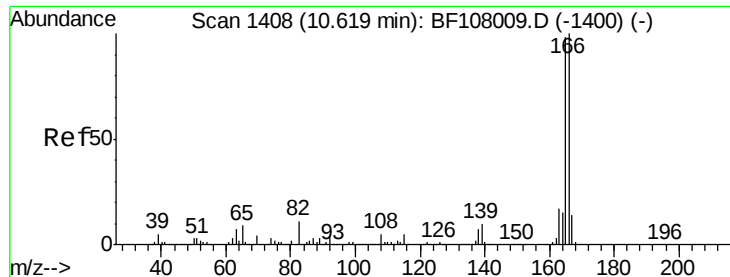
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	44.7	67.1#
89	1.4	44.0	66.0#



#56
 2,4-Dinitrotoluene
 Concen: 7.082 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. -0.20 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	36.4	54.6#
89	1.4	57.8	86.6#
182	0.0	1.6	2.4#

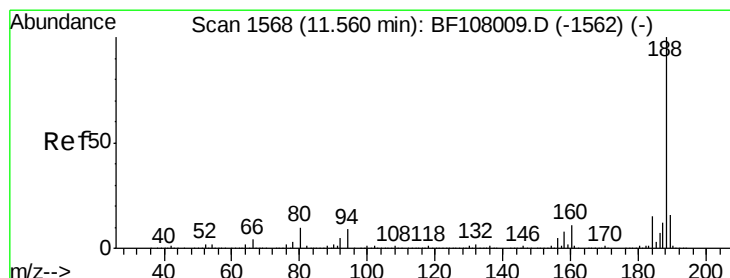
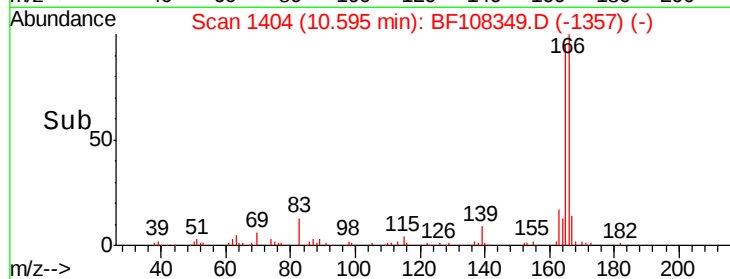
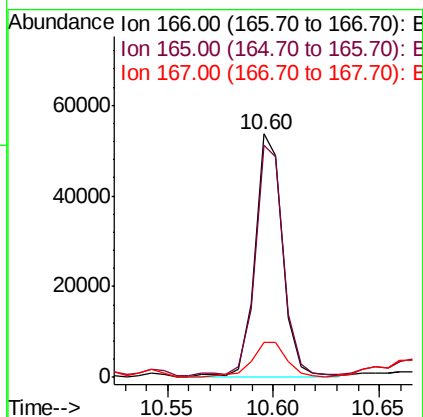
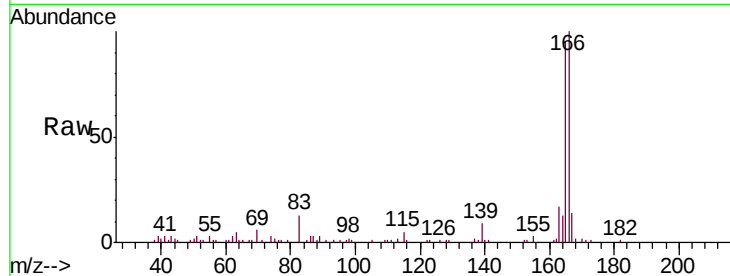




#57
 Fluorene
 Concen: 2.409 ng
 RT: 10.60 min Scan# 1404
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

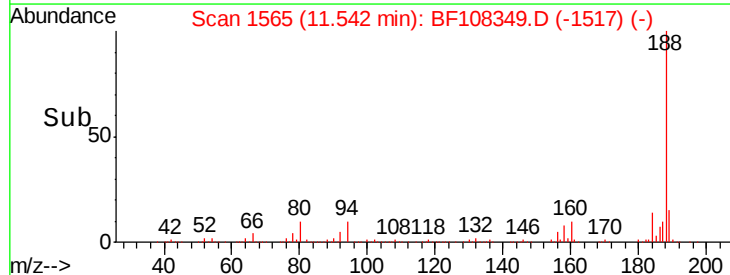
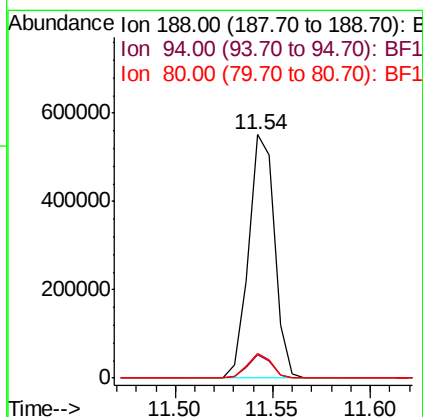
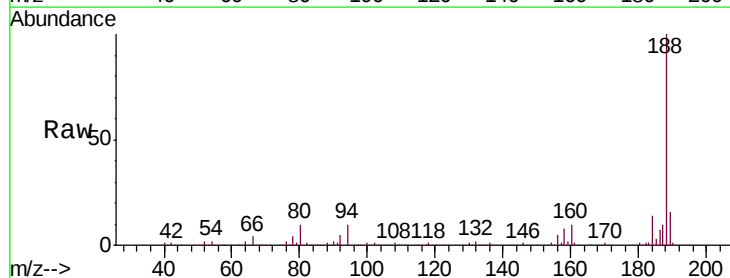
Instrument :
 BNA_F
 ClientSampleID :
 72-11967DL

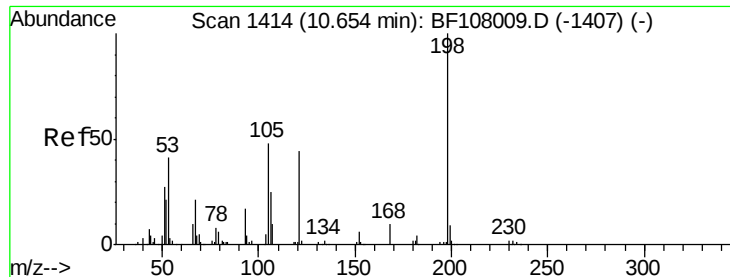
Tgt Ion:166 Resp: 49249
 Ion Ratio Lower Upper
 166 100
 165 95.2 79.8 119.8
 167 14.2 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.54 min Scan# 1565
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Tgt Ion:188 Resp: 509028
 Ion Ratio Lower Upper
 188 100
 94 9.6 8.5 12.7
 80 10.4 9.2 13.8

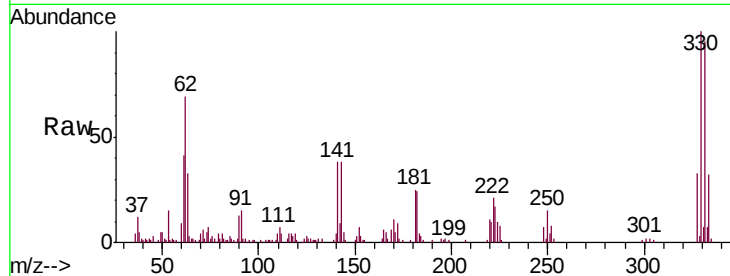




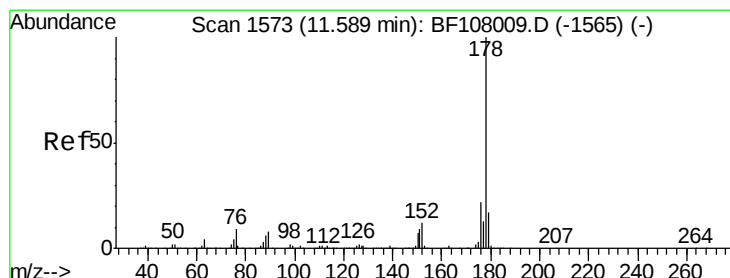
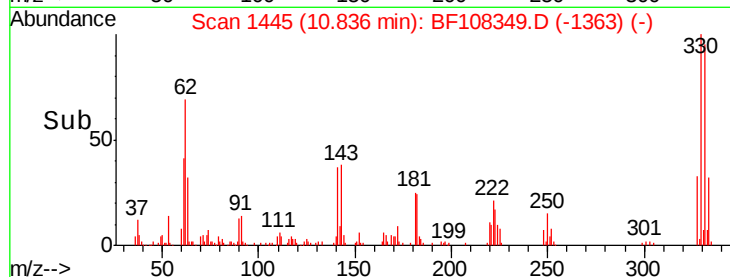
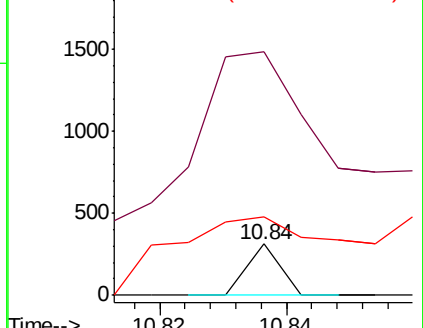
#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.410 ng
 RT: 10.84 min Scan# 1445
 Delta R.T. 0.18 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Instrument :
 BNA_F
 ClientSampleId :
 72-11967DL

Tgt Ion:198 Resp: 110
 Ion Ratio Lower Upper
 198 100
 51 476.3 37.7 77.7#
 105 153.2 36.3 76.3#

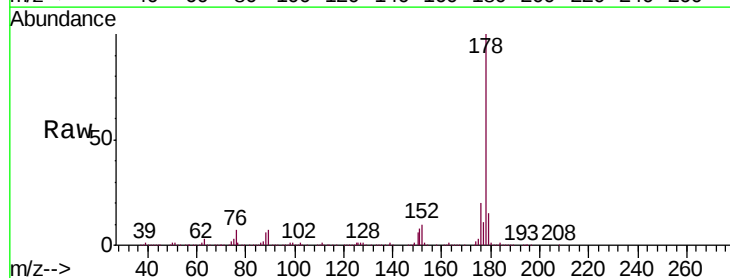


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

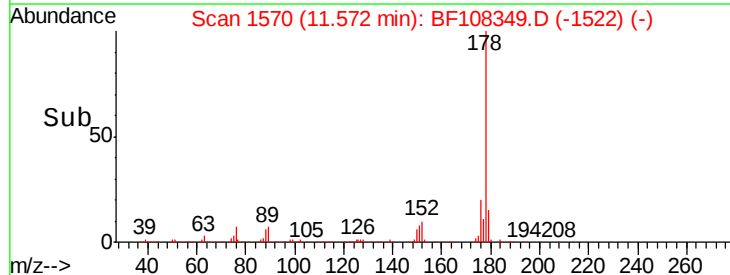
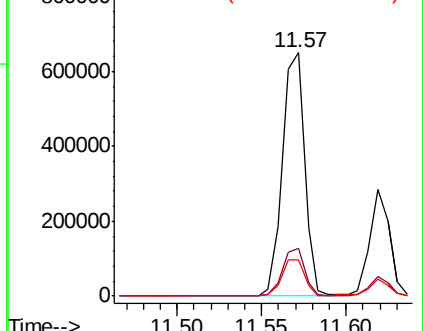


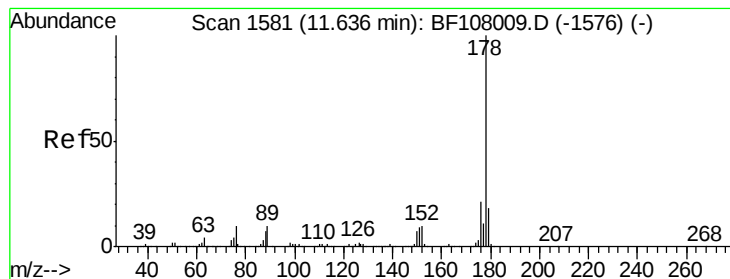
#70
 Phenanthrene
 Concen: 24.544 ng
 RT: 11.57 min Scan# 1570
 Delta R.T. -0.02 min
 Lab File: BF108349.D
 Acq: 21 Aug 2018 20:41

Tgt Ion:178 Resp: 589282
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.8 23.8
 179 15.0 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: 9.271 ng

RT: 11.62 min Scan# 1578

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

ClientSampleId :

72-11967DL

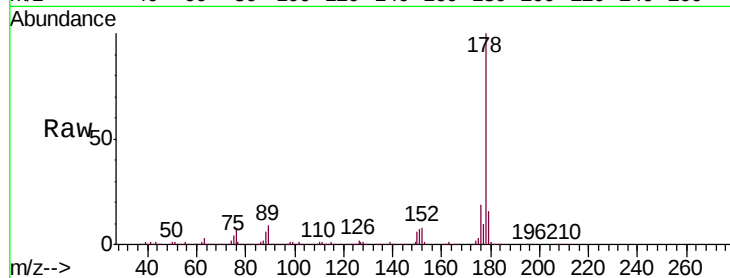
Tgt Ion:178 Resp: 228134

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

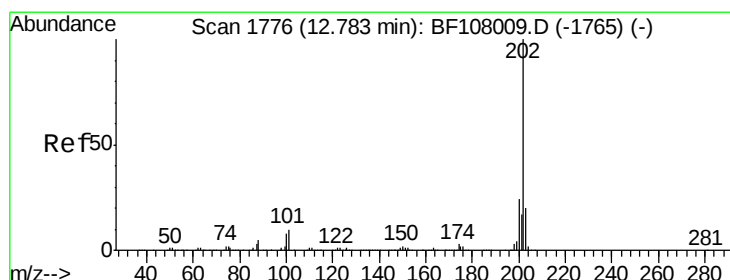
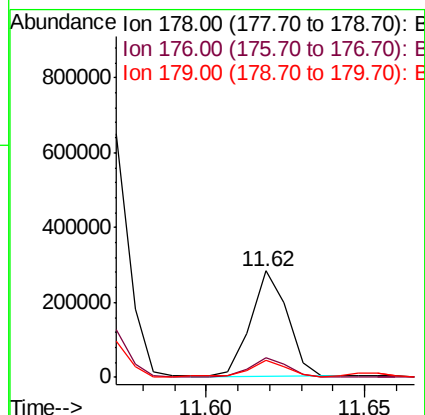
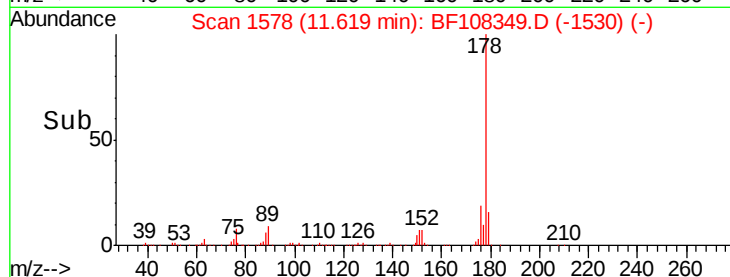
179 15.8 12.6 19.0



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



#74

Fluoranthene

Concen: 47.187 ng

RT: 12.77 min Scan# 1773

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

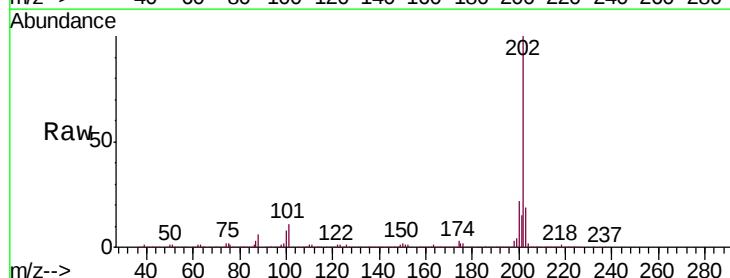
Tgt Ion:202 Resp: 1236436

Ion Ratio Lower Upper

202 100

101 11.0 0.0 34.1

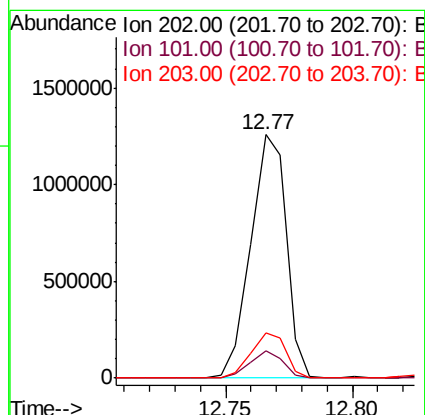
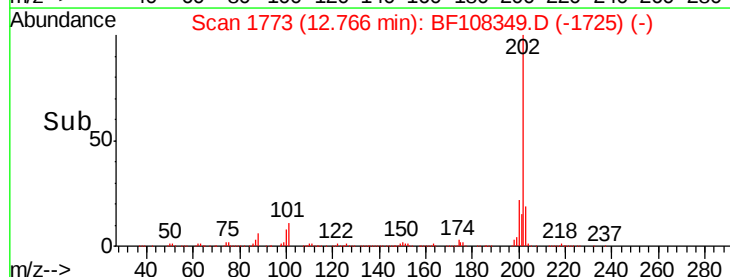
203 18.7 0.0 38.1

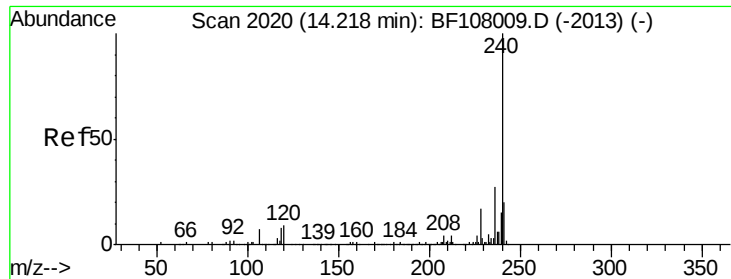


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.20 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

ClientSampleId :

72-11967DL

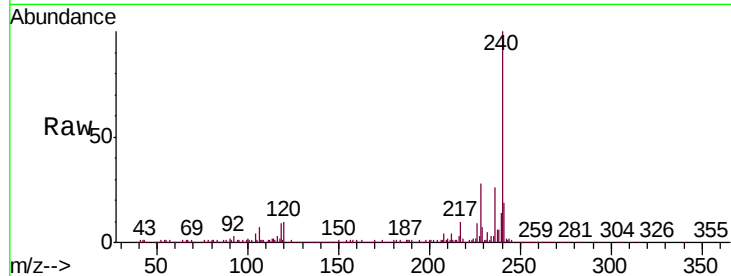
Tgt Ion:240 Resp: 382231

Ion Ratio Lower Upper

240 100

120 9.6 9.5 14.3

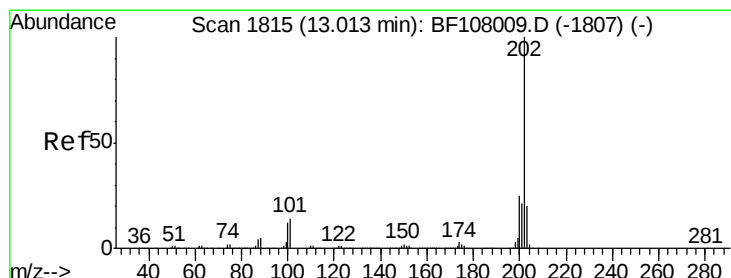
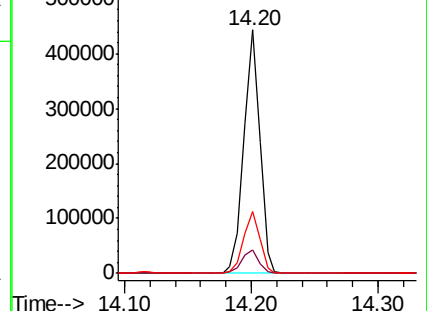
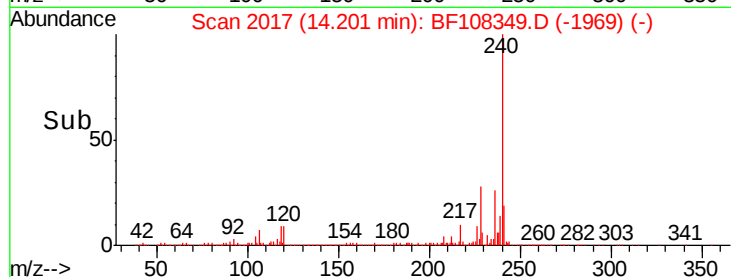
236 25.6 20.7 31.1



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: 47.746 ng

RT: 13.00 min Scan# 1813

Delta R.T. -0.01 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

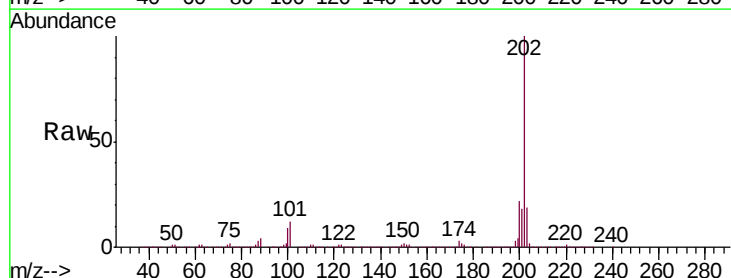
Tgt Ion:202 Resp: 1155404

Ion Ratio Lower Upper

202 100

200 22.4 17.4 26.2

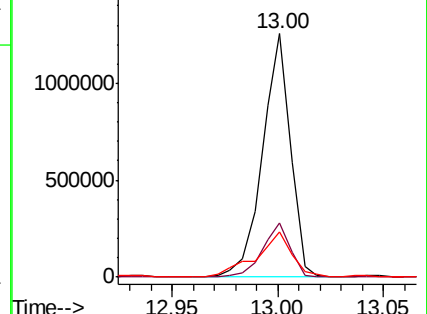
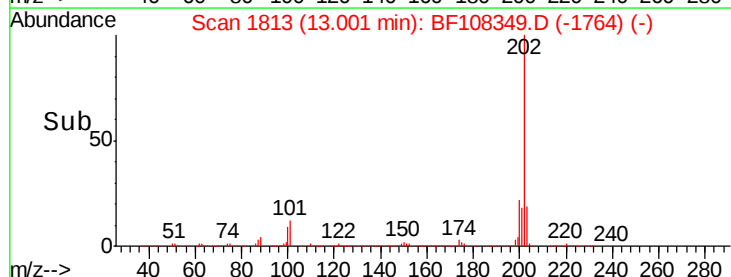
203 18.6 14.3 21.5

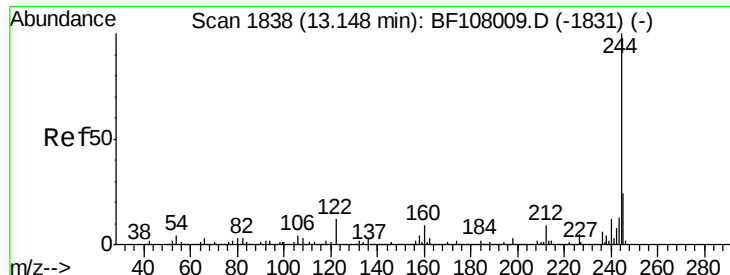


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 21.514 ng

RT: 13.12 min Scan# 1834

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

ClientSampleId :

72-11967DL

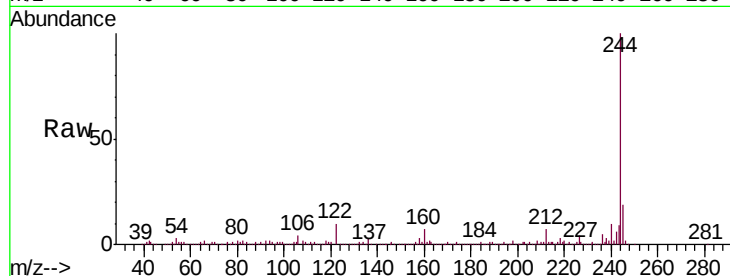
Tgt Ion:244 Resp: 323424

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

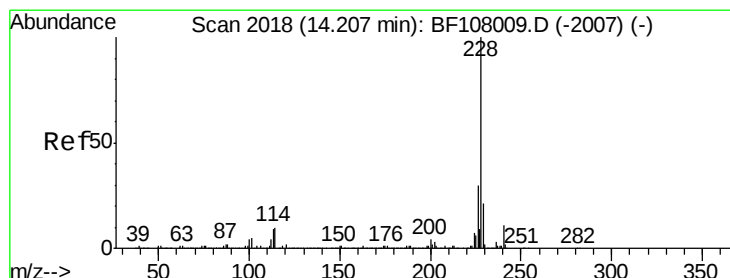
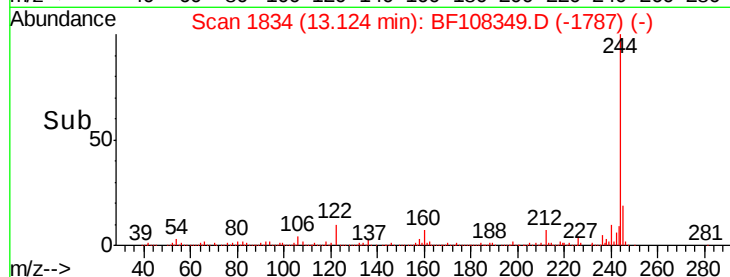
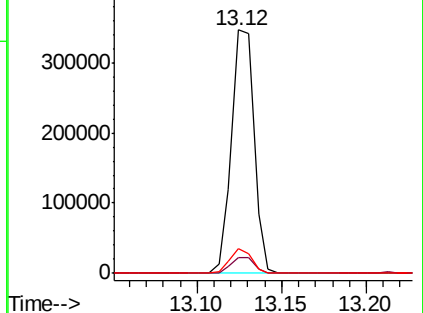
122 10.3 11.0 16.4#



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: 30.982 ng

RT: 14.19 min Scan# 2015

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

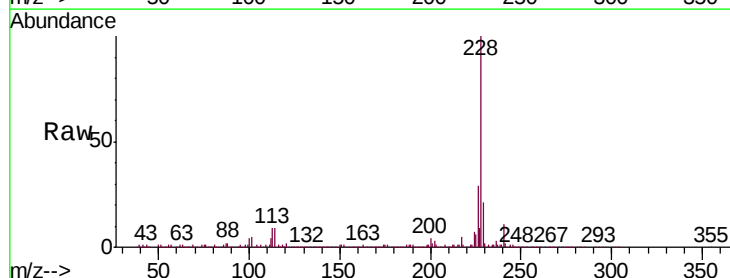
Tgt Ion:228 Resp: 679634

Ion Ratio Lower Upper

228 100

226 29.3 22.6 33.8

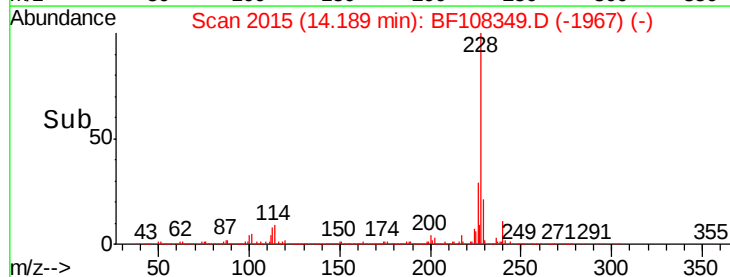
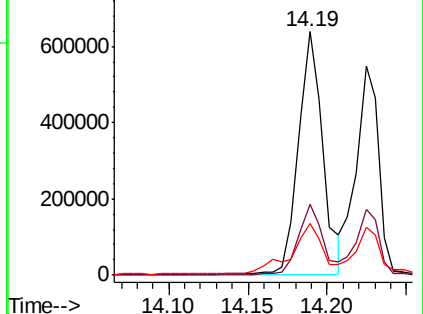
229 21.0 15.8 23.6

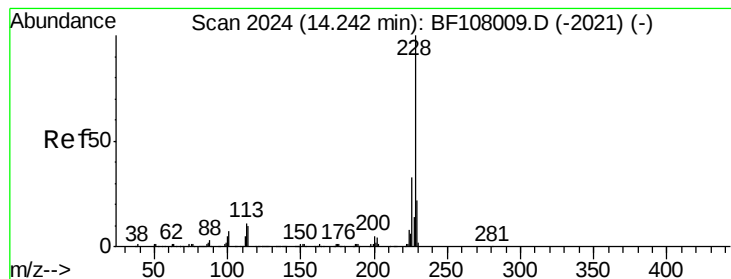


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 27.024 ng

RT: 14.22 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

ClientSampleId :

72-11967DL

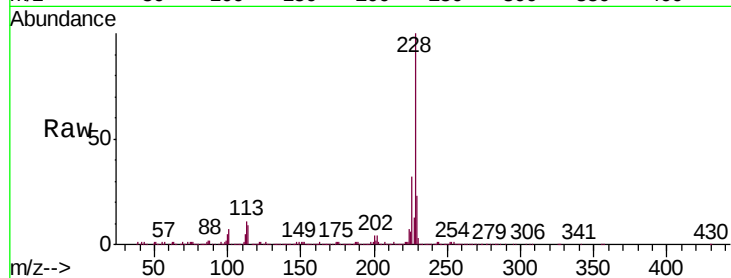
Tgt Ion:228 Resp: 543479

Ion Ratio Lower Upper

228 100

226 31.5 25.0 37.6

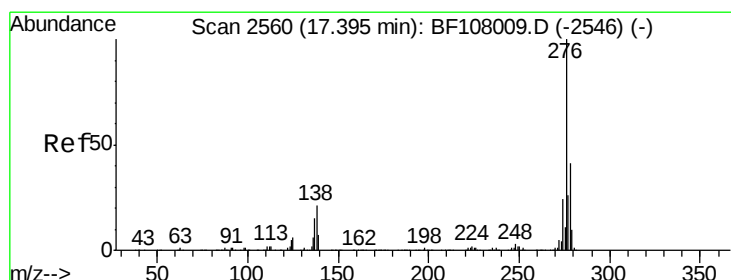
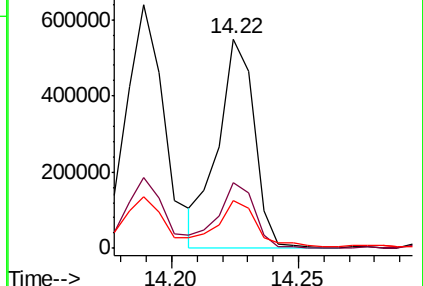
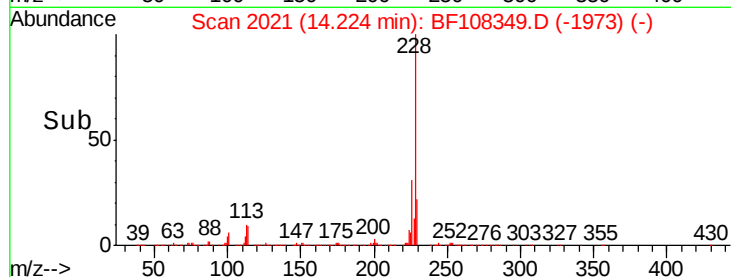
229 23.1 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 13.830 ng

RT: 17.37 min Scan# 2555

Delta R.T. -0.03 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

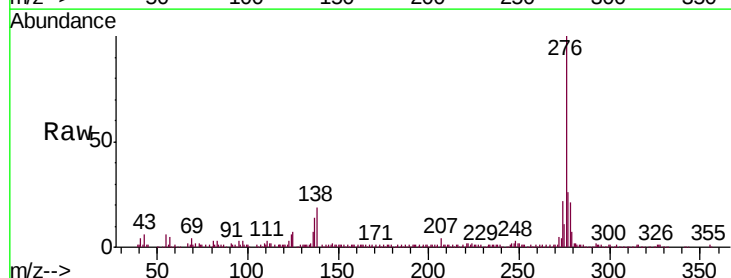
Tgt Ion:276 Resp: 240984

Ion Ratio Lower Upper

276 100

138 19.0 25.0 37.6#

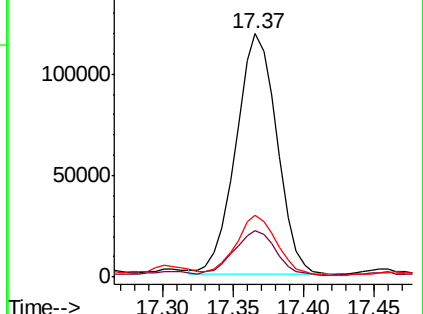
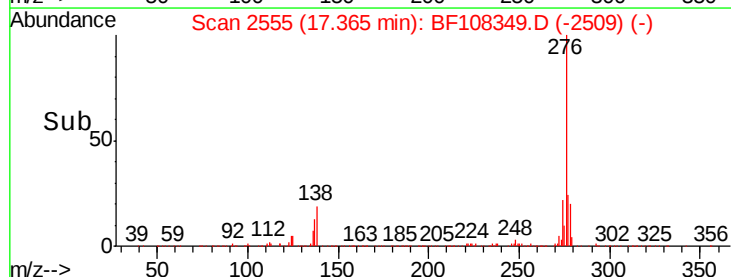
277 24.7 20.1 30.1

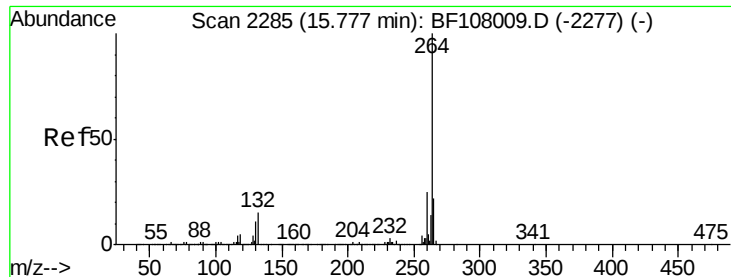


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

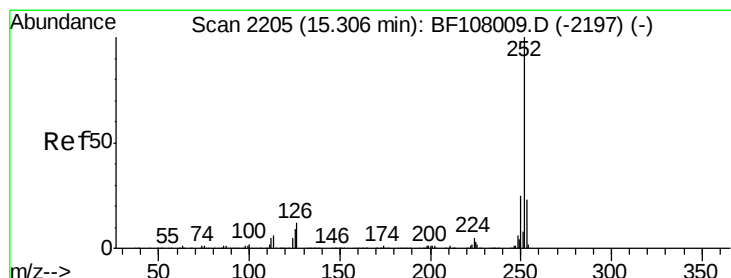
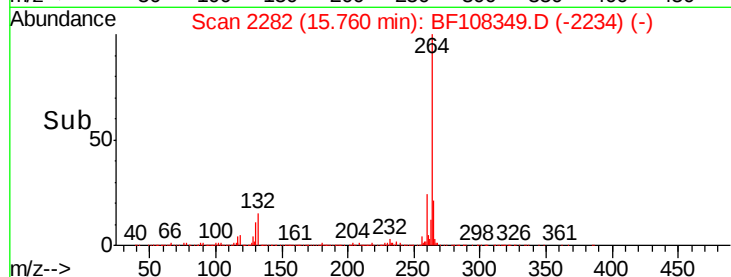
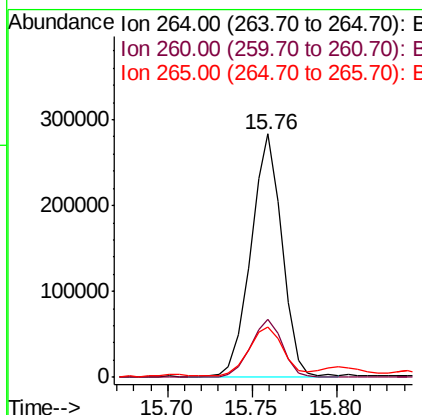
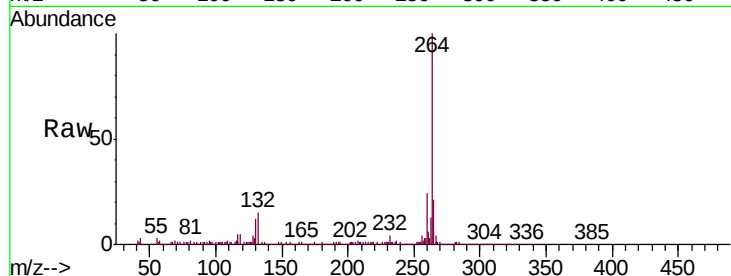




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.76 min Scan# 2282
Delta R.T. -0.02 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

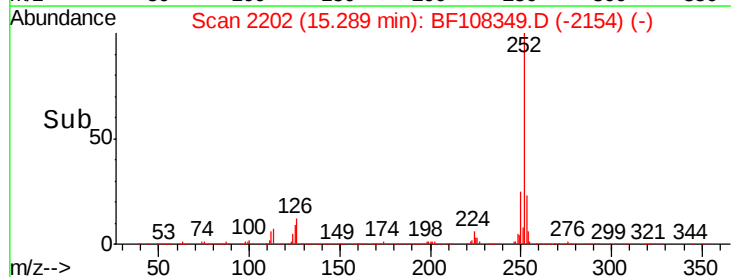
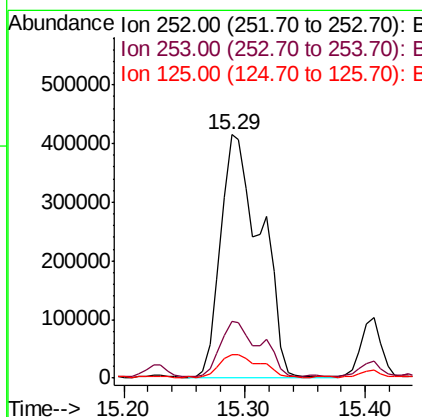
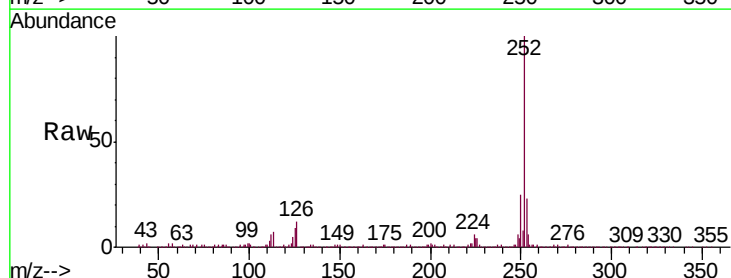
Instrument :
BNA_F
ClientSampleId :
72-11967DL

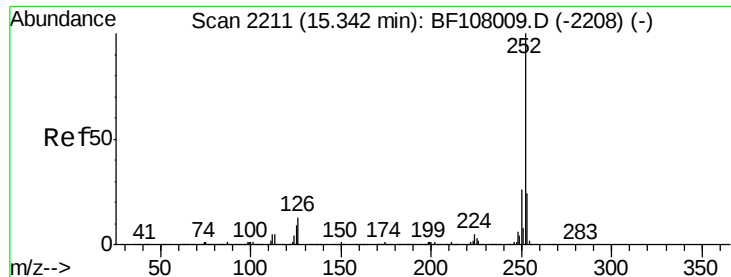
Tgt Ion:	264	Resp:	360938
Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	20.8	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 44.000 ng
RT: 15.29 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Tgt Ion:	252	Resp:	948982
Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	9.4	9.0	13.6

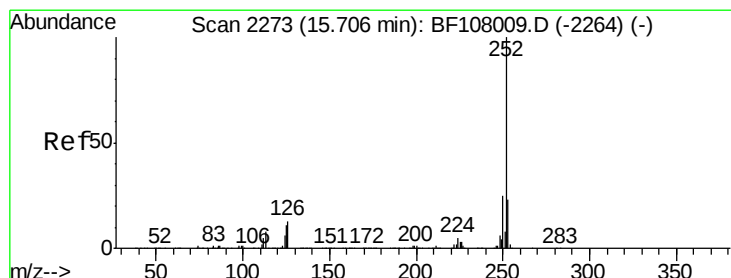
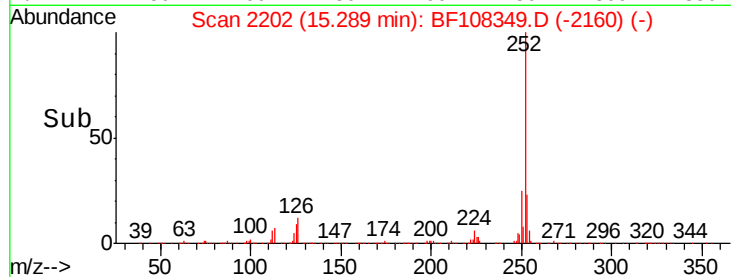
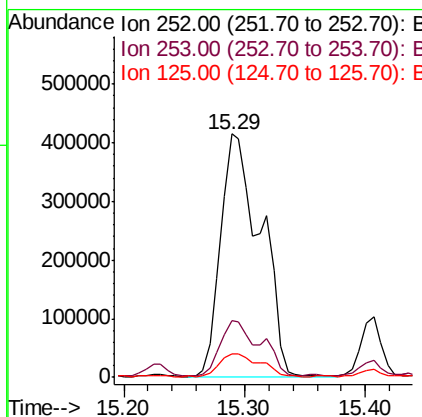
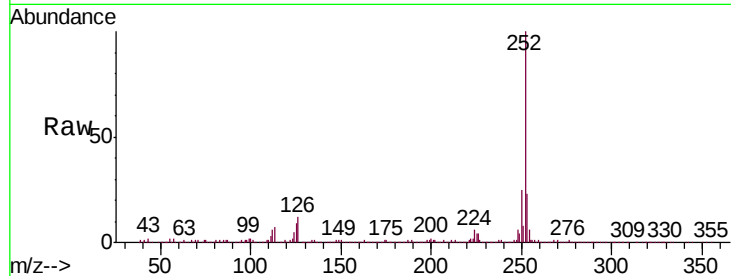




#88
Benzo(k)fluoranthene
Concen: 47.866 ng
RT: 15.29 min Scan# 2202
Delta R.T. -0.05 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

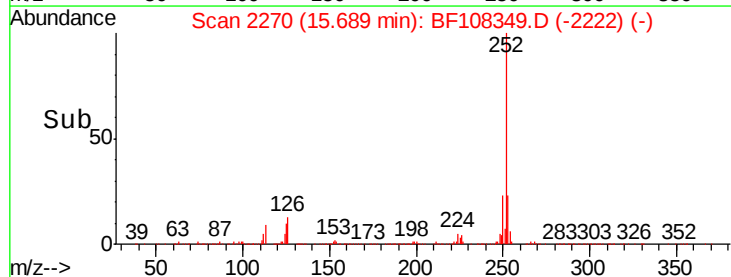
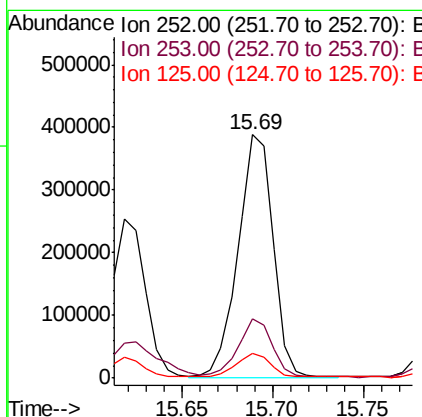
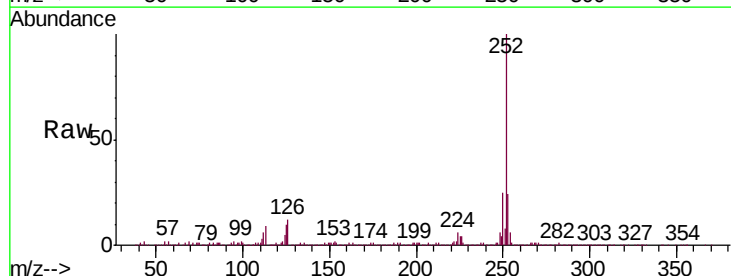
Instrument :
BNA_F
ClientSampleId :
72-11967DL

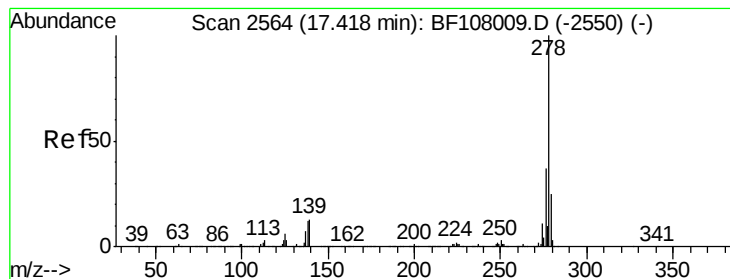
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	9.4	10.2	15.2#



#89
Benzo(a)pyrene
Concen: 26.779 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF108349.D
Acq: 21 Aug 2018 20:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.1	25.7
125	10.3	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 4.136 ng

RT: 17.37 min Scan# 2556

Delta R.T. -0.05 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

Instrument :

BNA_F

ClientSampleId :

72-11967DL

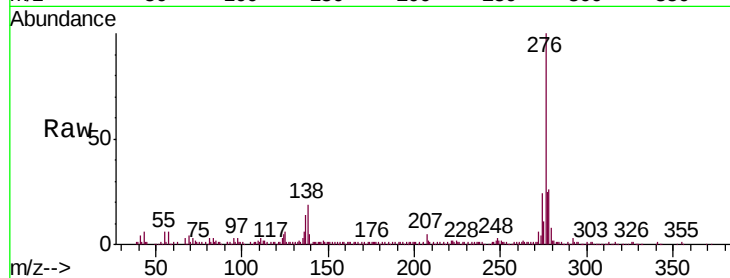
Tgt Ion:278 Resp: 66092

Ion Ratio Lower Upper

278 100

139 19.0 15.9 23.9

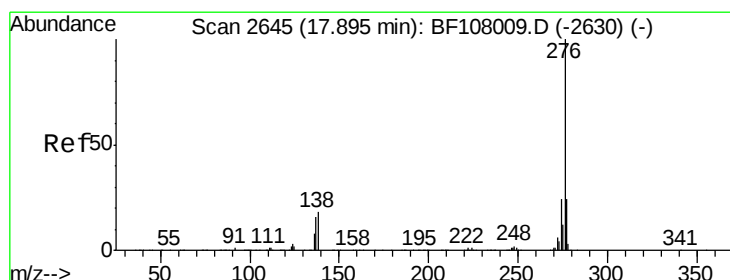
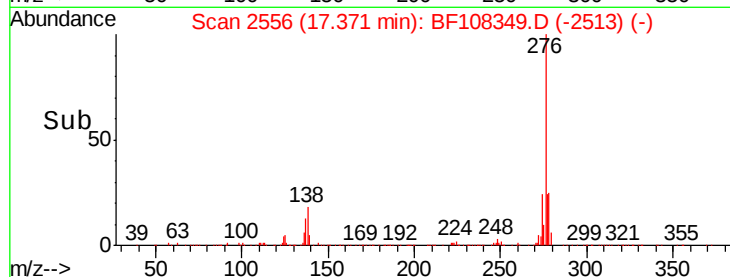
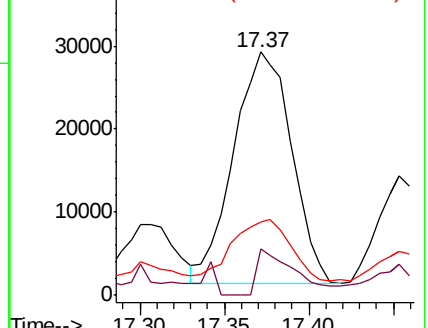
279 30.2 19.0 28.4#



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: 13.480 ng

RT: 17.86 min Scan# 2639

Delta R.T. -0.04 min

Lab File: BF108349.D

Acq: 21 Aug 2018 20:41

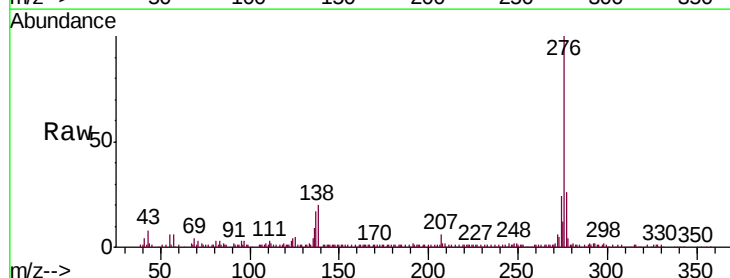
Tgt Ion:276 Resp: 212106

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 19.7 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

