

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042418\
 Data File : BF104769.D
 Acq On : 24 Apr 2018 21:01
 Operator : JU/SJ
 Sample : J2508-13
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 24 21:59:44 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 23 15:38:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	105424	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	430619	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	185927	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	292305	20.00	ng	0.00
75) Chrysene-d12	13.99	240	225614	20.00	ng	0.00
86) Perylene-d12	15.46	264	157818	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	672517	97.54	ng	0.02
7) Phenol-d6	6.46	99	835971	98.68	ng	0.01
23) Nitrobenzene-d5	7.37	82	528674	80.17	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	186638	96.77	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	956535	81.27	ng	0.00
78) Terphenyl-d14	12.93	244	748156	75.60	ng	0.00

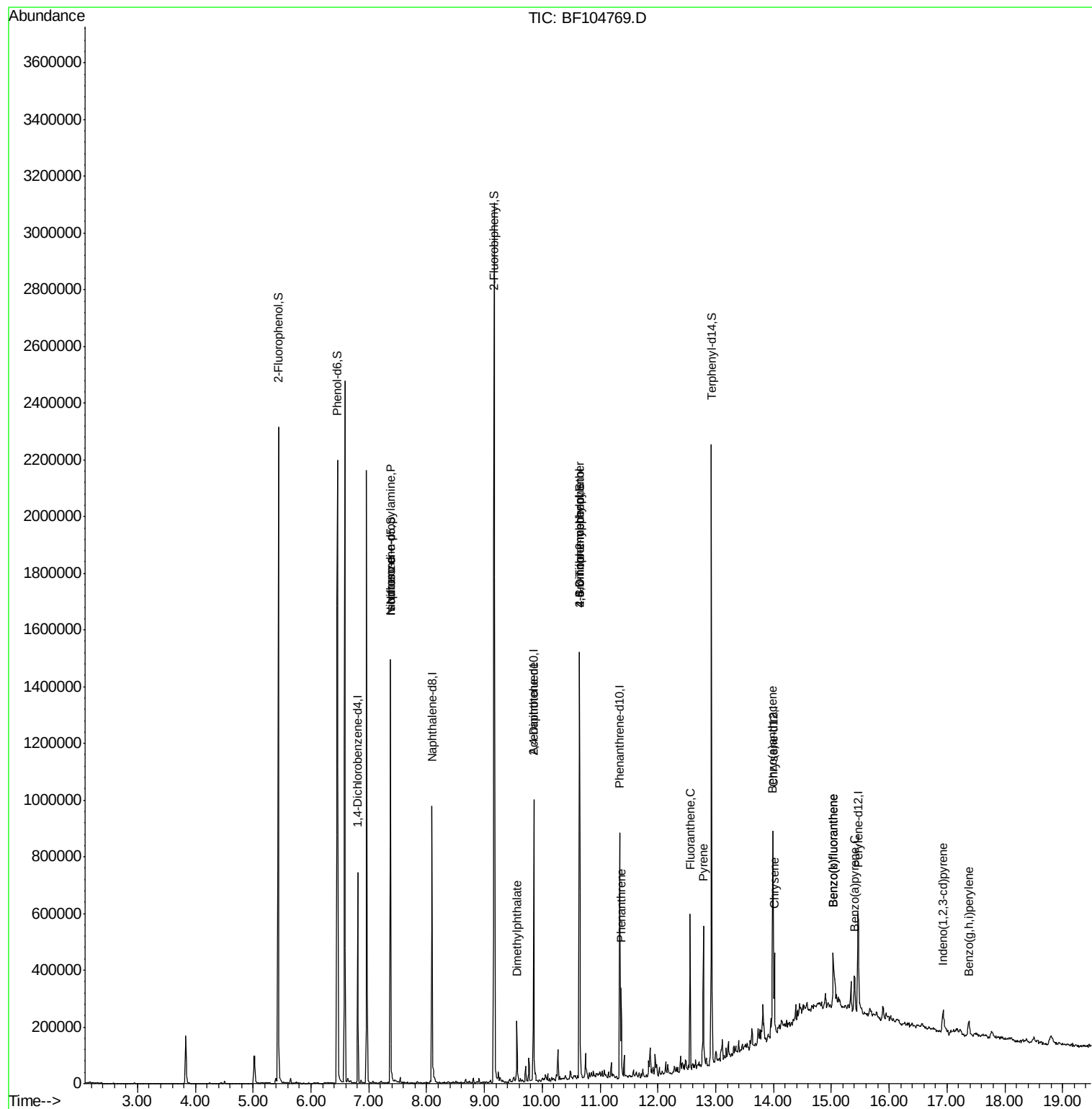
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.37	70	70701	12.772	ng	# 73
25) Isophorone	7.37	82	528670	37.910	ng	# 64
49) Dimethylphthalate	9.56	163	86181	5.878	ng	100
56) 2,4-Dinitrotoluene	9.85	165	23766	6.678	ng	# 23
64) 4,6-Dinitro-2-methylphenol	10.64	198	327	7.542	ng	# 1
66) 4-Bromophenyl-phenylether	10.64	248	11388	3.663	ng	# 1
70) Phenanthrene	11.36	178	103851	6.380	ng	96
74) Fluoranthene	12.56	202	195780	11.511	ng	97
76) Benzidine	12.93	184	10507	Below Cal		95
77) Pyrene	12.79	202	187191	11.193	ng	99
80) Benzo(a)anthracene	13.98	228	95038	7.051	ng	96
82) Chrysene	14.02	228	105188	7.598	ng	98
85) Indeno(1,2,3-cd)pyrene	16.93	276	41028	3.489	ng	# 92
87) Benzo(b)fluoranthene	15.03	252	147069	14.755	ng	# 93
88) Benzo(k)fluoranthene	15.03	252	147069	15.629	ng	96
89) Benzo(a)pyrene	15.40	252	59847	6.710	ng	# 94
91) Benzo(a,h,i)perylene	17.38	276	44815	6.315	ng	95

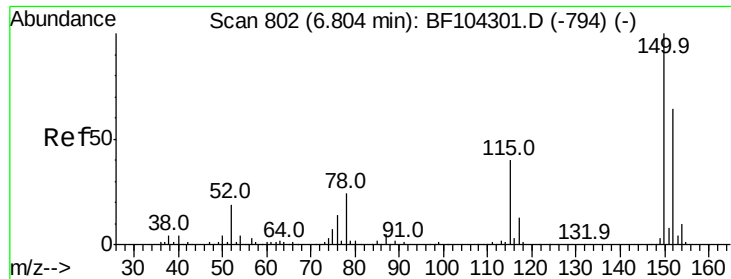
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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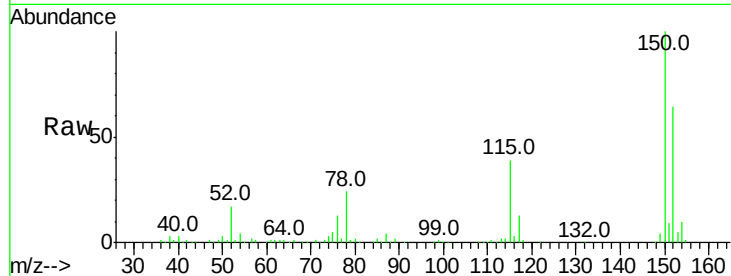


#1

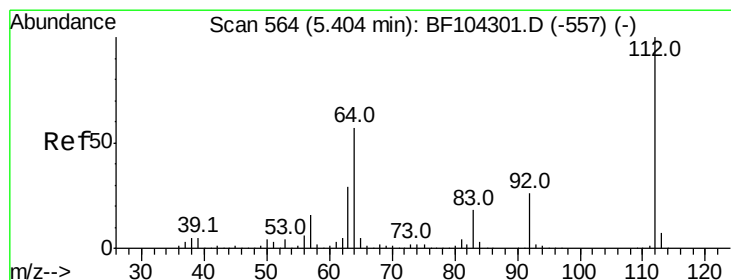
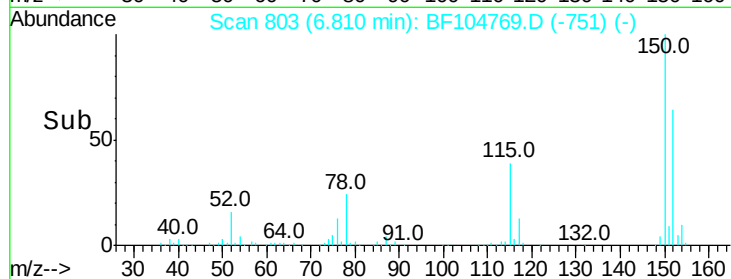
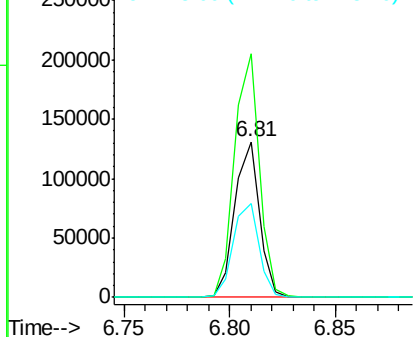
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF104769.D
Acq: 24 Apr 2018 21:01

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 105424
Ion Ratio Lower Upper
152 100
150 156.4 124.6 186.8
115 60.7 50.1 75.1



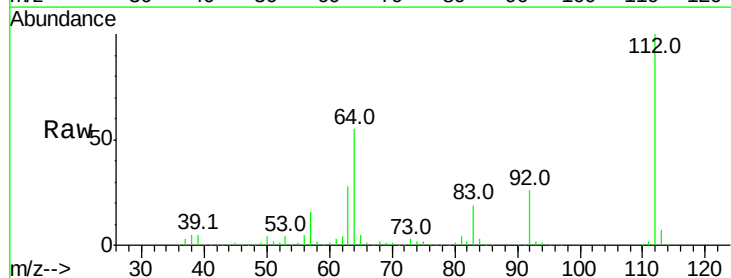
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



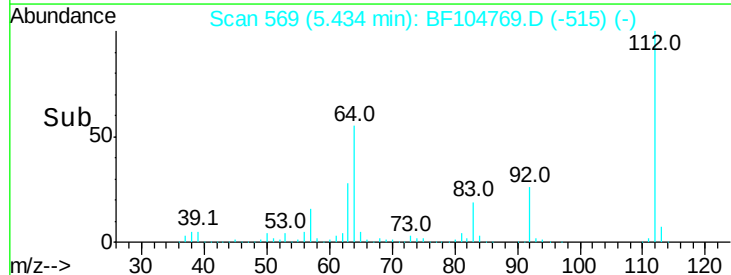
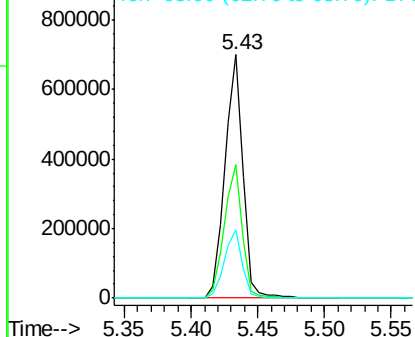
#5

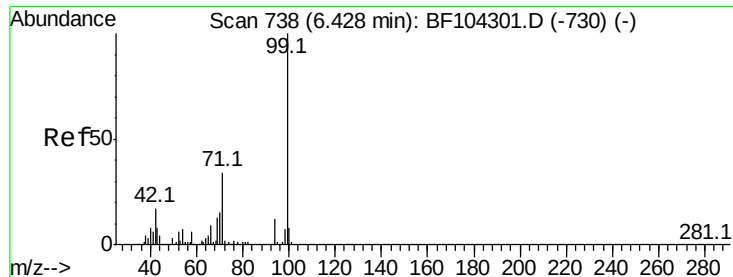
2-Fluorophenol
Concen: 97.541 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.02 min
Lab File: BF104769.D
Acq: 24 Apr 2018 21:01

Tgt Ion:112 Resp: 672517
Ion Ratio Lower Upper
112 100
64 54.9 47.9 71.9
63 28.0 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: 98.682 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

Instrument :

BNA_F

ClientSampleId :

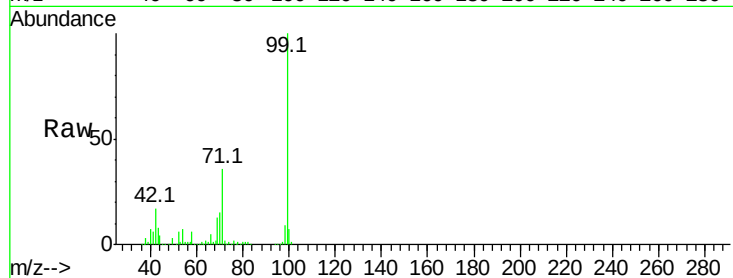
Tot Ion: 99 Resp: 835971

Ion Ratio Lower Upper

99 100

42 16.7 14.5 21.7

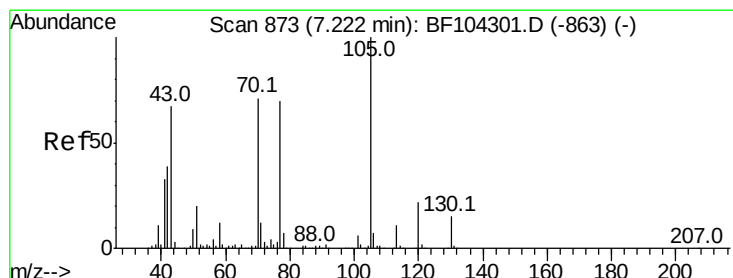
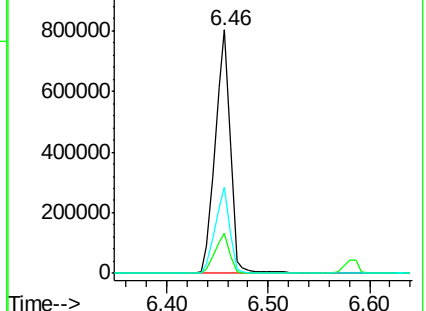
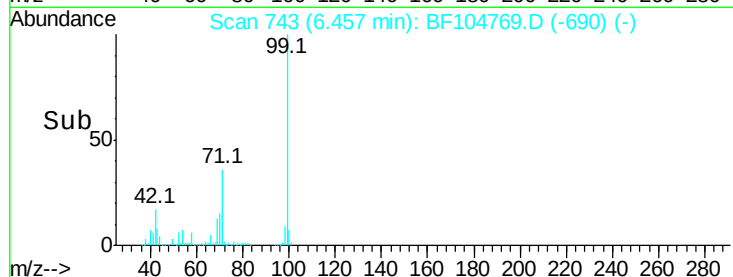
71 35.6 25.4 38.0



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: 12.772 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

Tgt Ion: 70 Resp: 70701

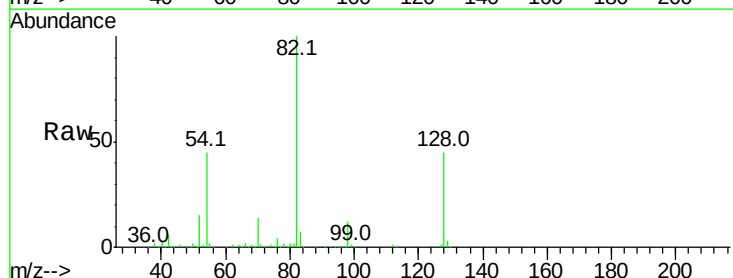
Ion Ratio Lower Upper

70 100

42 42.2 47.5 71.3#

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

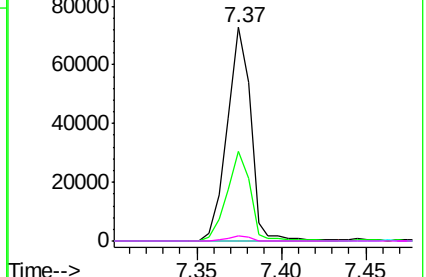
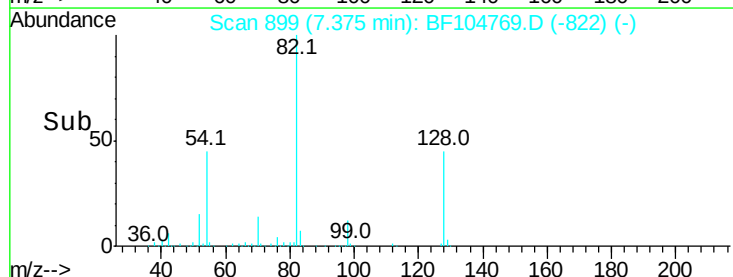


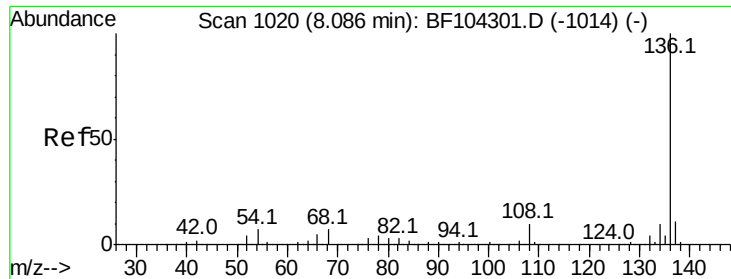
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

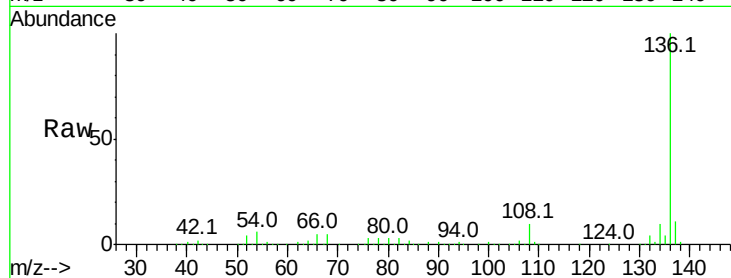




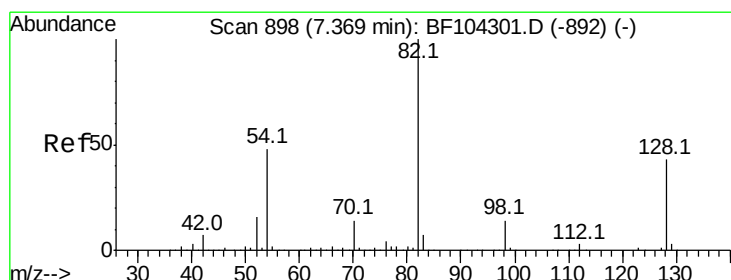
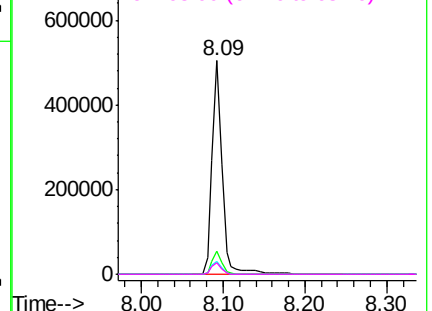
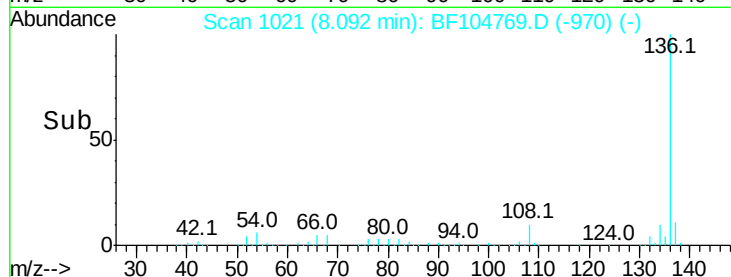
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BF104769.D
Acq: 24 Apr 2018 21:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	430619
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	6.3	6.6	9.8#
68	5.4	5.0	7.4

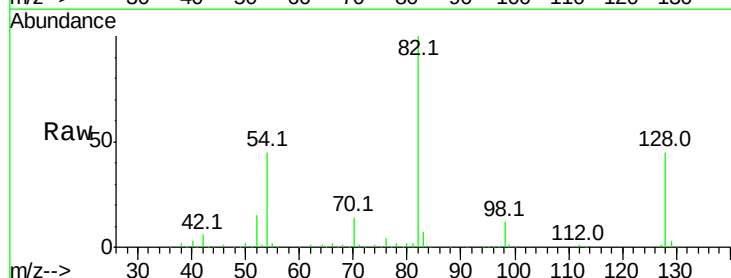


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

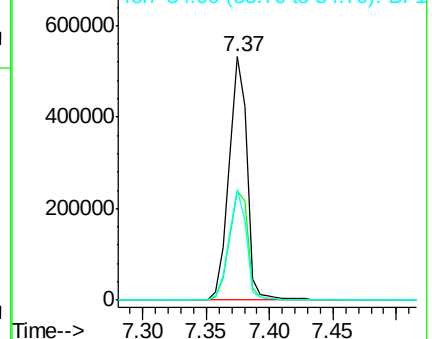
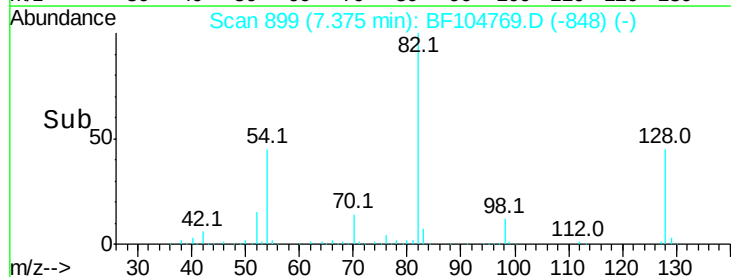


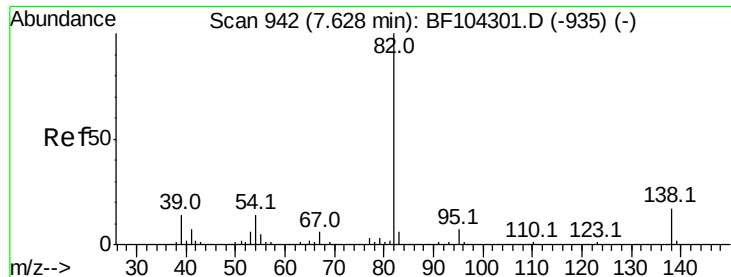
#23
Nitrobenzene-d5
Concen: 80.167 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.00 min
Lab File: BF104769.D
Acq: 24 Apr 2018 21:01

Tgt Ion:	82	Resp:	528674
Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.1	54.1
54	45.3	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: 37.910 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.25 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

Instrument :

BNA_F

ClientSampleId :

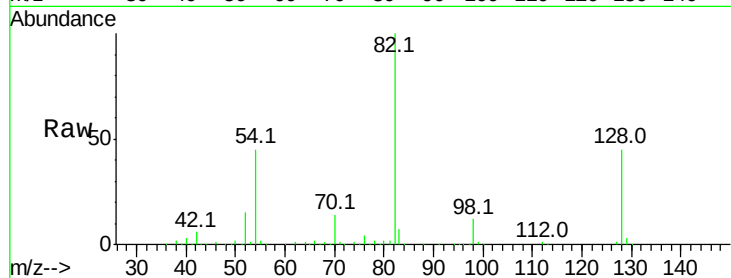
Tot Ion: 82 Resp: 528670

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

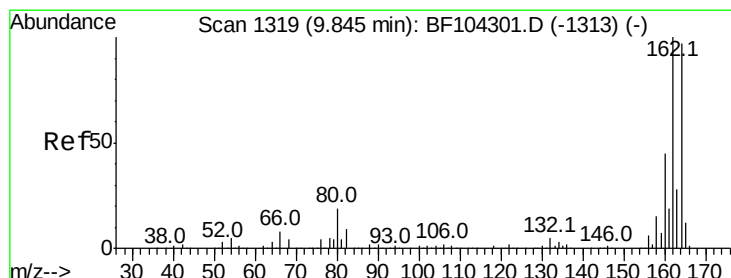
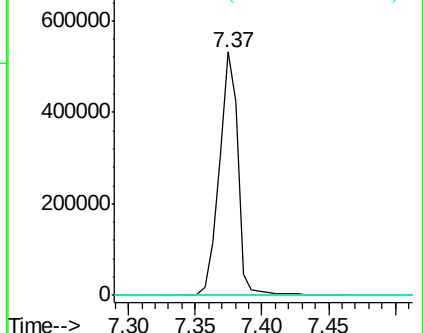
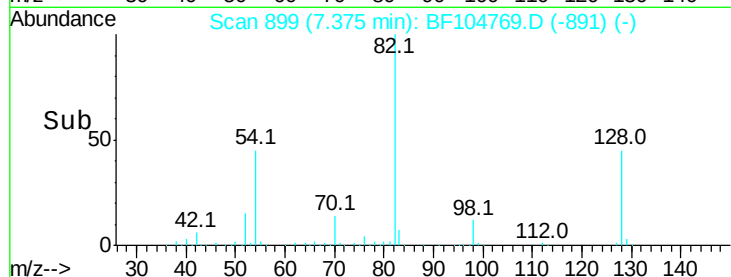
138 0.0 14.9 22.3#



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: 9.85 min Scan# 1320

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

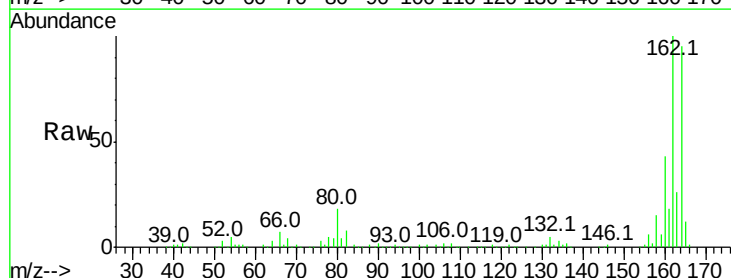
Tgt Ion:164 Resp: 185927

Ion Ratio Lower Upper

164 100

162 105.8 86.1 129.1

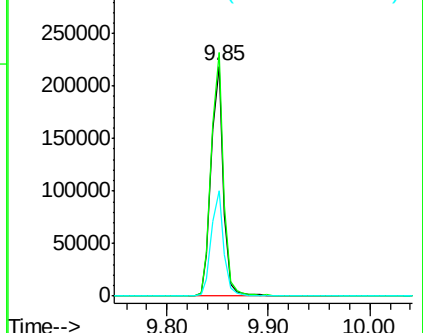
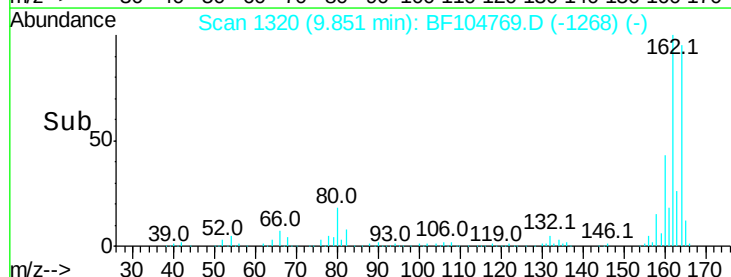
160 45.9 38.3 57.5

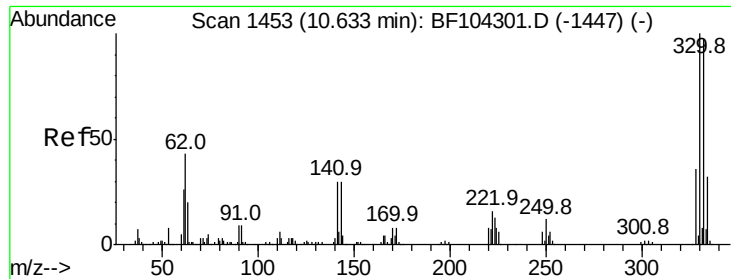


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

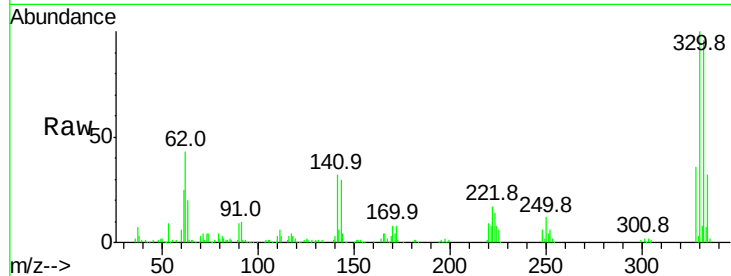




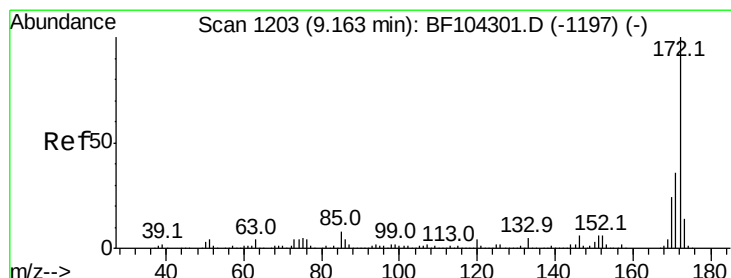
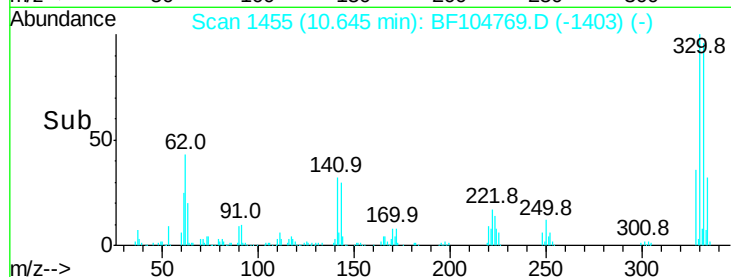
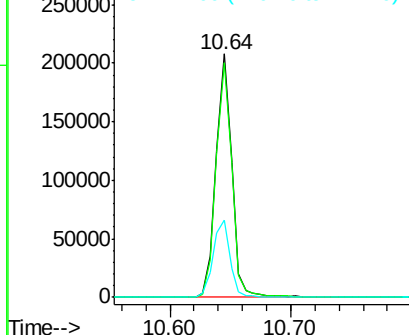
#41
 2,4,6-Tribromophenol
 Concen: 96.770 ng
 RT: 10.64 min Scan# 1455
 Delta R.T. 0.01 min
 Lab File: BF104769.D
 Acq: 24 Apr 2018 21:01

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.0	115.6
141	33.4	29.9	44.9

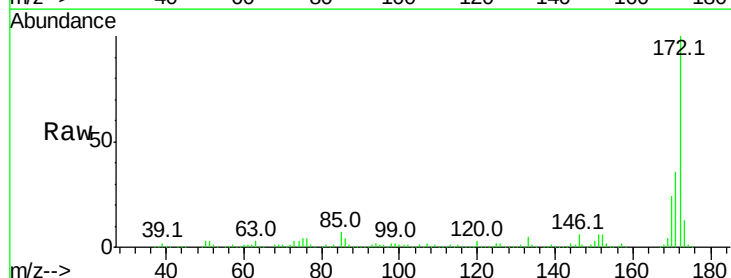


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

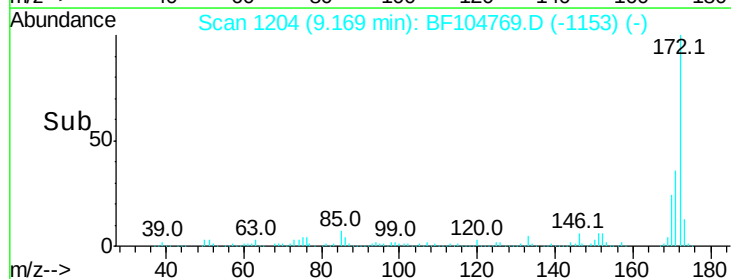
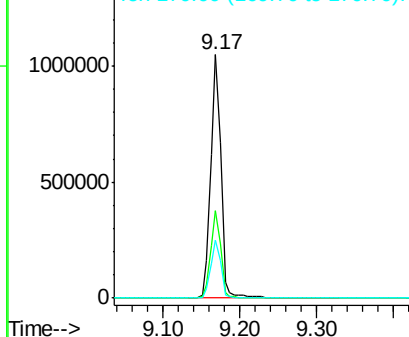


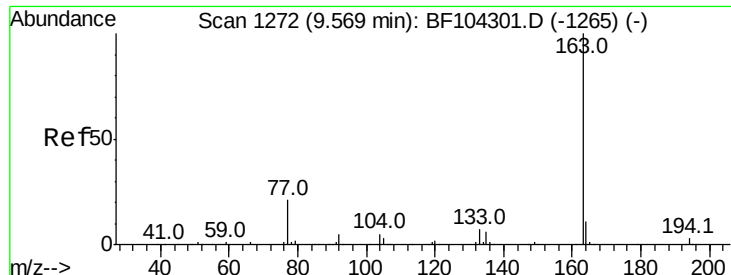
#44
 2-Fluorobiphenyl
 Concen: 81.273 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: BF104769.D
 Acq: 24 Apr 2018 21:01

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.7	44.5
170	24.1	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

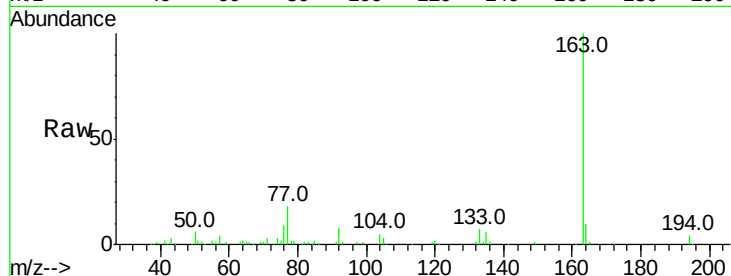




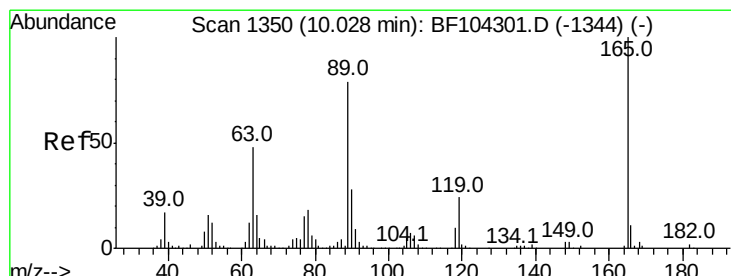
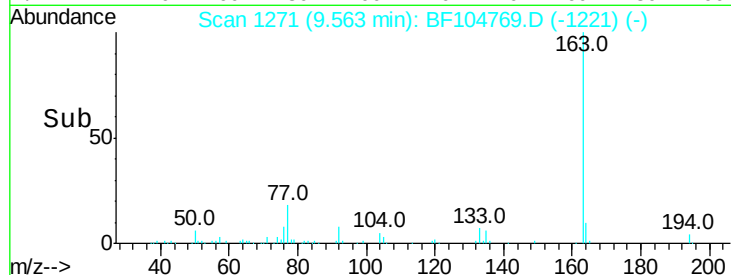
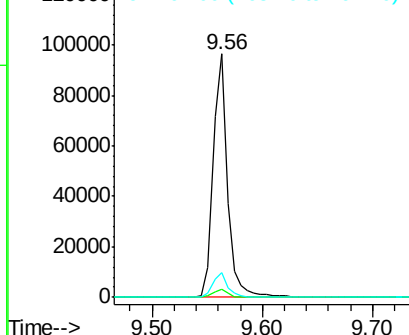
#49
 Dimethylphthalate
 Concen: 5.878 ng
 RT: 9.56 min Scan# 1271
 Delta R.T. -0.01 min
 Lab File: BF104769.D
 Acq: 24 Apr 2018 21:01

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:163 Resp: 86181
 Ion Ratio Lower Upper
 163 100
 194 3.6 2.7 4.1
 164 10.1 8.2 12.2

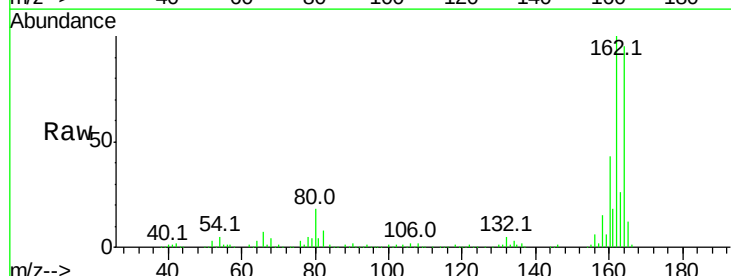


Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

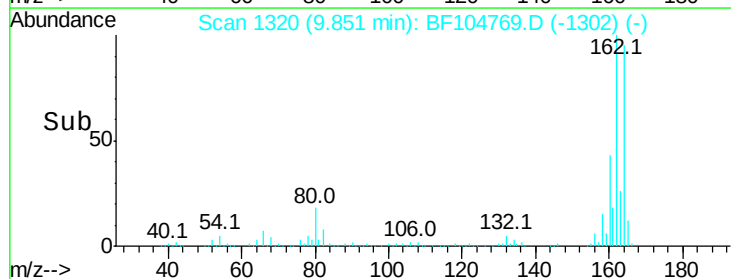
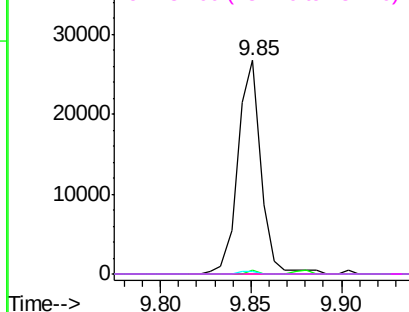


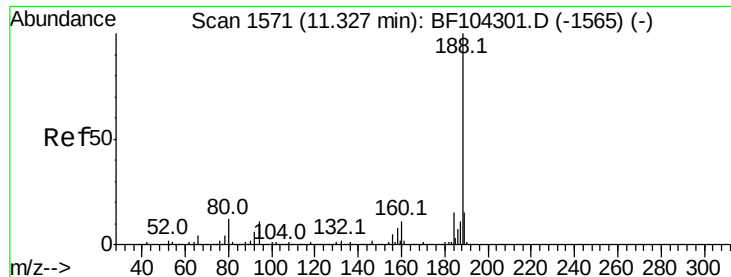
#56
 2,4-Dinitrotoluene
 Concen: 6.678 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.19 min
 Lab File: BF104769.D
 Acq: 24 Apr 2018 21:01

Tgt Ion:165 Resp: 23766
 Ion Ratio Lower Upper
 165 100
 63 1.7 36.4 54.6#
 89 1.3 57.8 86.6#
 182 0.0 1.6 2.4#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

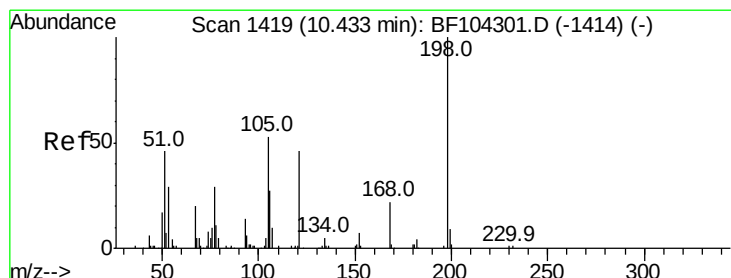
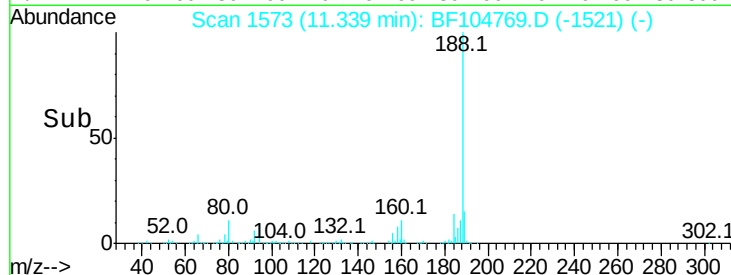
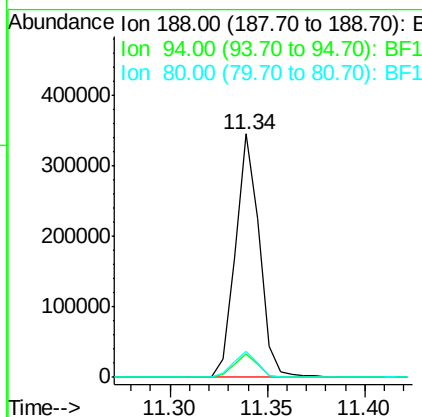
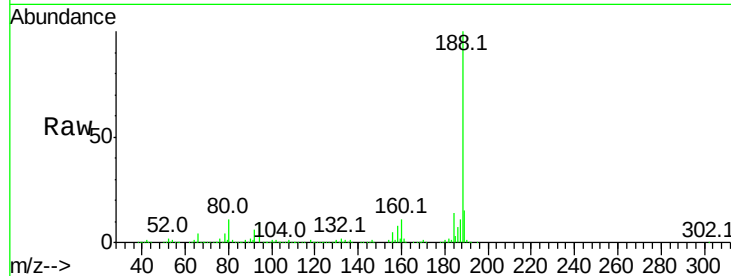




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: BF104769.D
 Acq: 24 Apr 2018 21:01

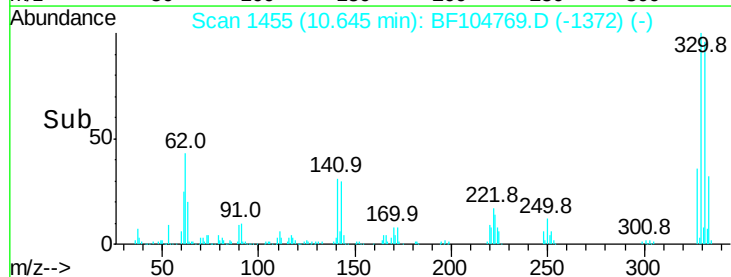
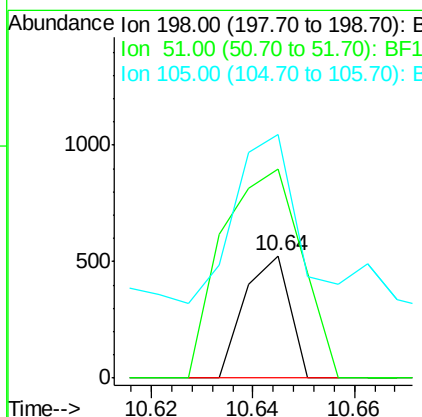
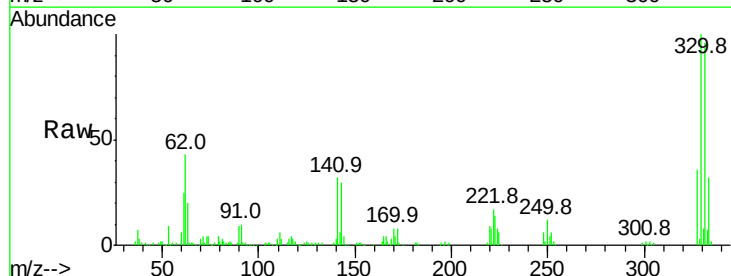
Instrument :
 BNA_F
 ClientSampleId :

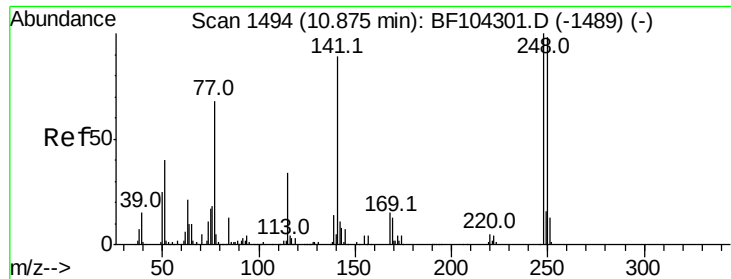
Tot Ion:188 Resp: 292305
 Ion Ratio Lower Upper
 188 100
 94 9.6 8.5 12.7
 80 10.6 9.2 13.8



#64
 4,6-Dinitro-2-methylphenol
 Concen: 7.542 ng
 RT: 10.64 min Scan# 1455
 Delta R.T. 0.19 min
 Lab File: BF104769.D
 Acq: 24 Apr 2018 21:01

Tgt Ion:198 Resp: 327
 Ion Ratio Lower Upper
 198 100
 51 171.4 37.7 77.7#
 105 199.4 36.3 76.3#

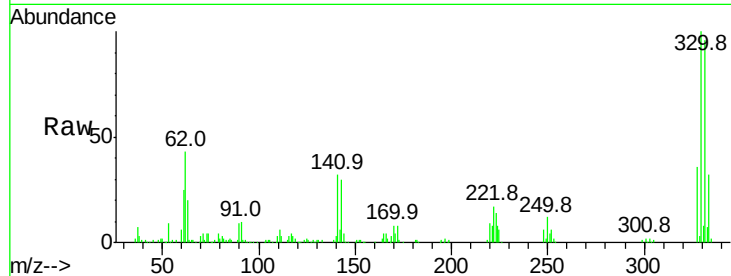




#66
 4-Bromophenyl-phenylether
 Concen: 3.663 ng
 RT: 10.64 min Scan# 1455
 Delta R.T. -0.23 min
 Lab File: BF104769.D
 Acq: 24 Apr 2018 21:01

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
248	100		
250	197.9	76.9	115.3#
141	525.6	74.4	111.6#

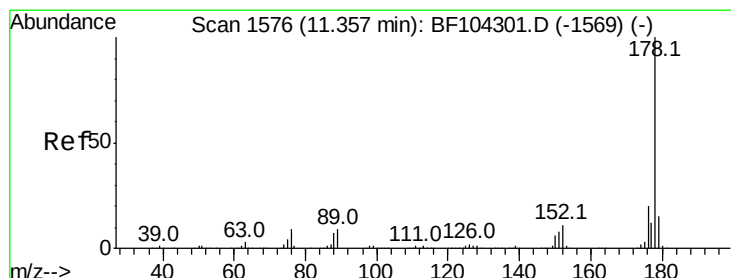
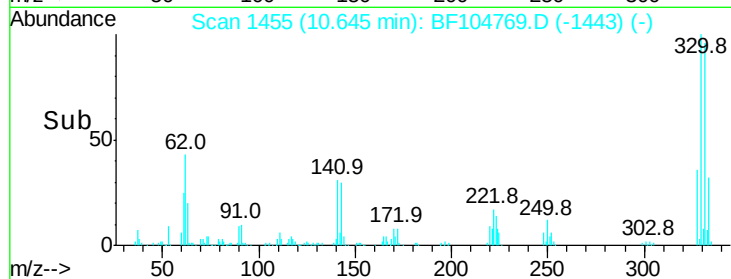
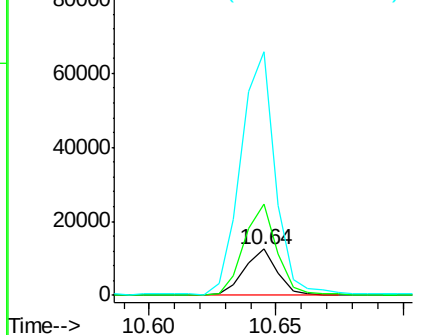


Abundance

Ion 248.00 (247.70 to 248.70): E

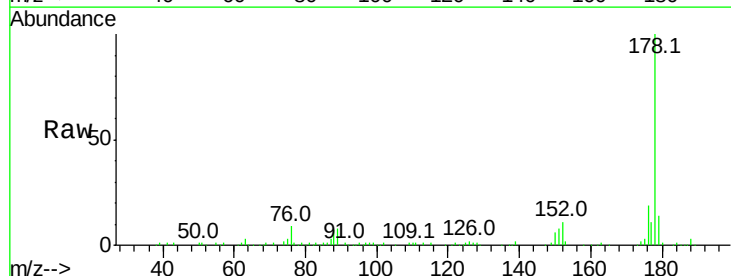
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#70
 Phenanthrene
 Concen: 6.380 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: BF104769.D
 Acq: 24 Apr 2018 21:01

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	14.4	13.0	19.6

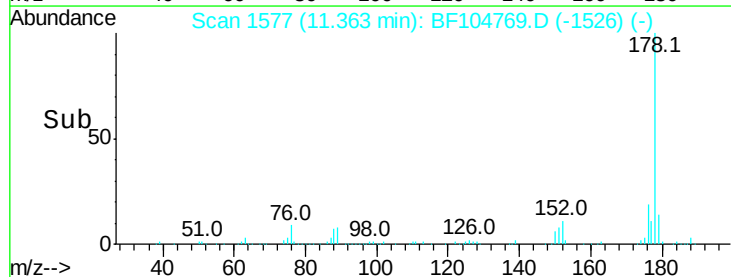
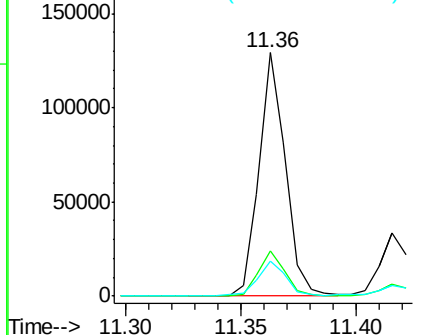


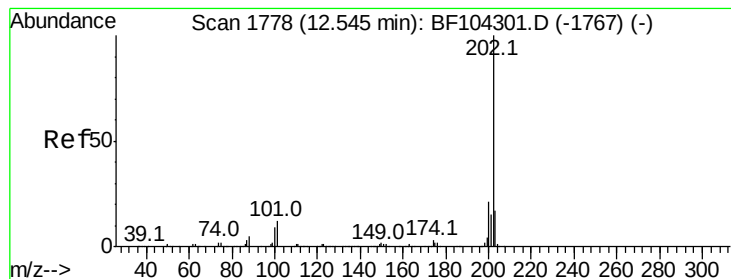
Abundance

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





#74

Fluoranthene

Concen: 11.511 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

Instrument :

BNA_F

ClientSampleId :

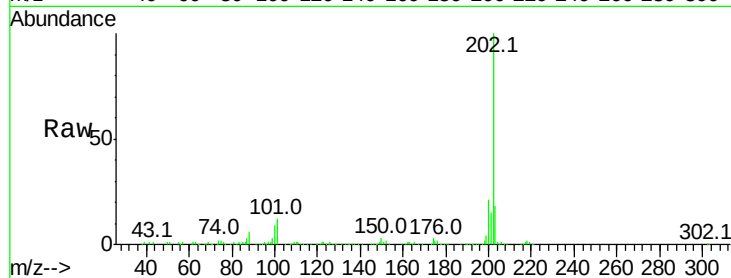
Tot Ion:202 Resp: 195780

Ion Ratio Lower Upper

202 100

101 11.6 0.0 34.1

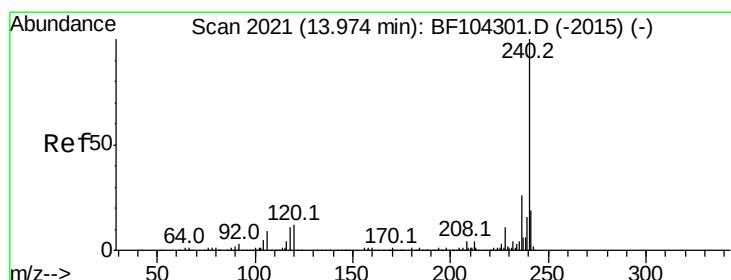
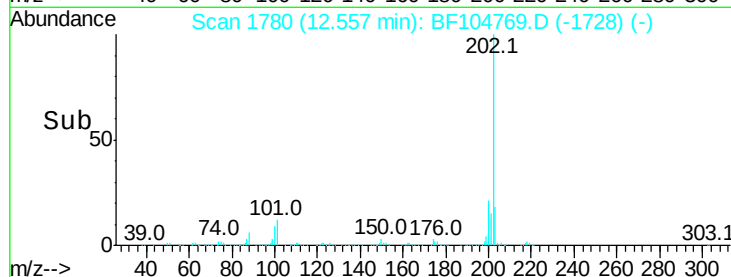
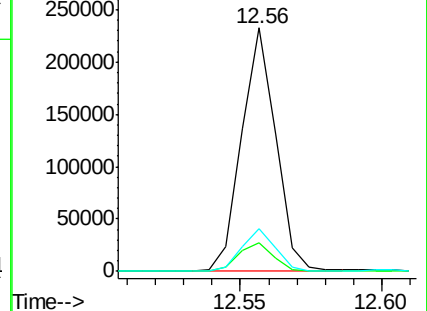
203 17.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

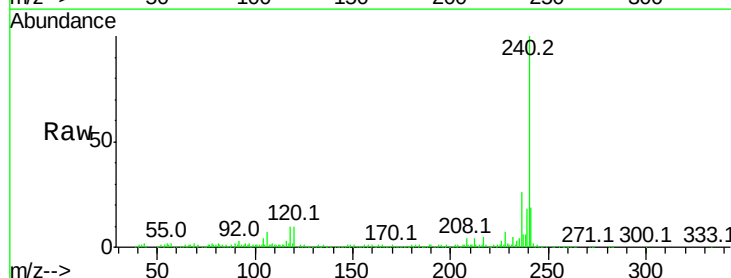
Tgt Ion:240 Resp: 225614

Ion Ratio Lower Upper

240 100

120 10.5 9.5 14.3

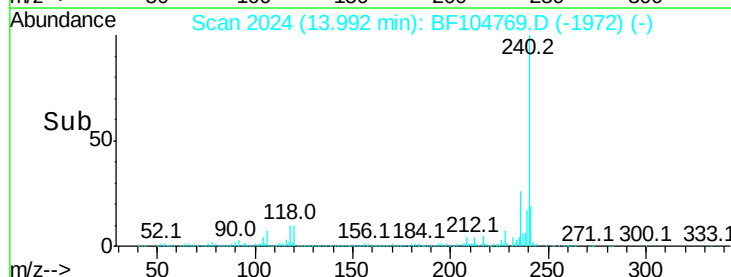
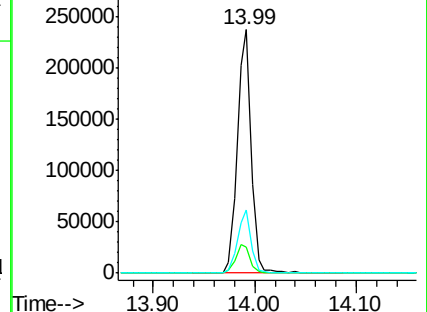
236 25.9 20.7 31.1

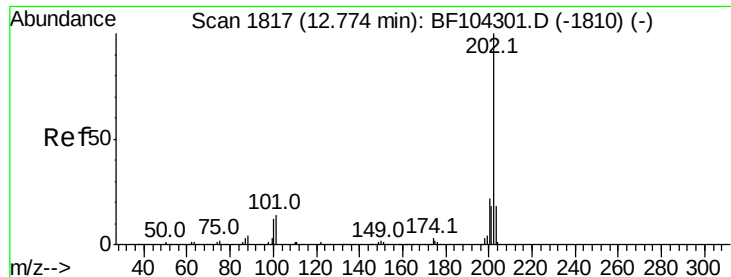


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

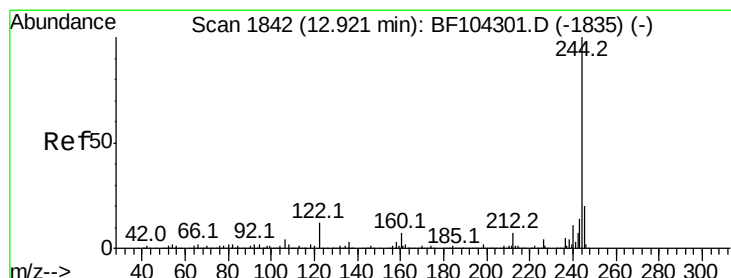
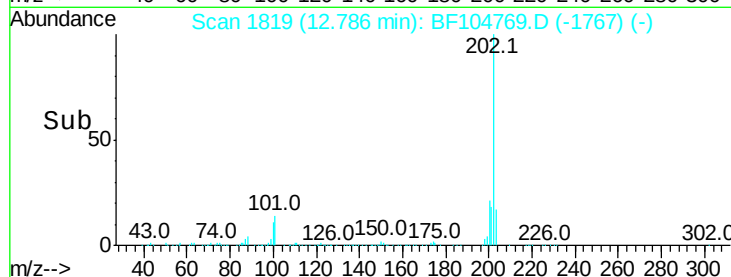
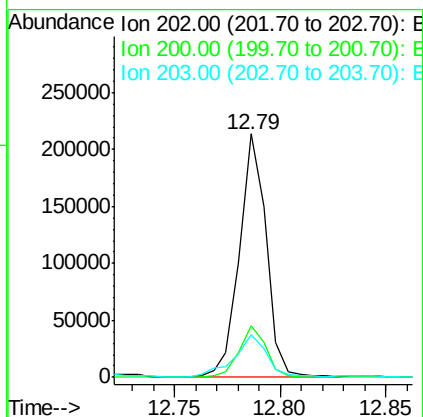
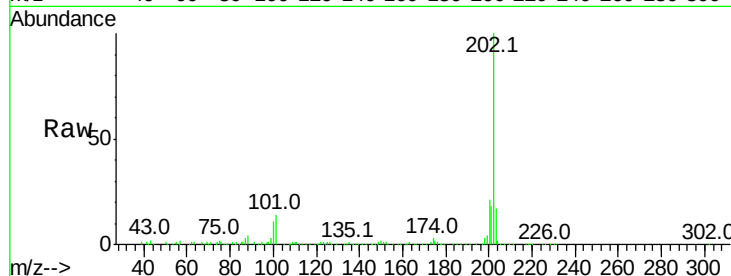




#77
Pvrene
Concen: 11.193 ng
RT: 12.79 min Scan# 1819
Delta R.T. 0.01 min
Lab File: BF104769.D
Acq: 24 Apr 2018 21:01

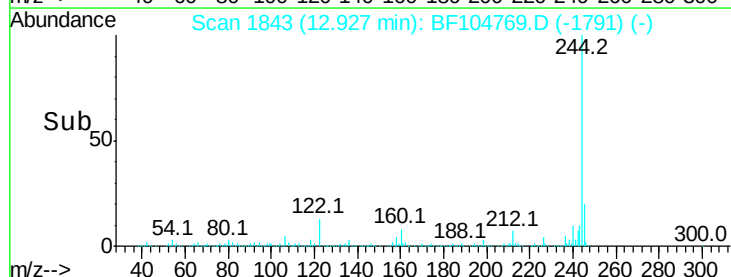
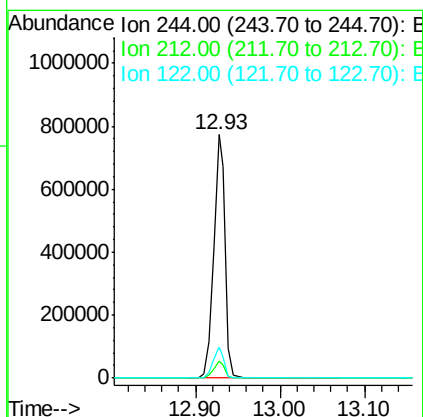
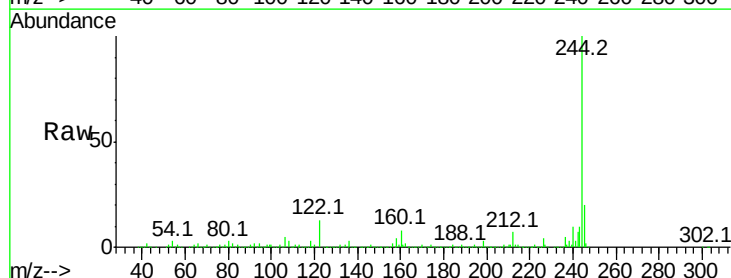
Instrument :
BNA_F
ClientSampleId :

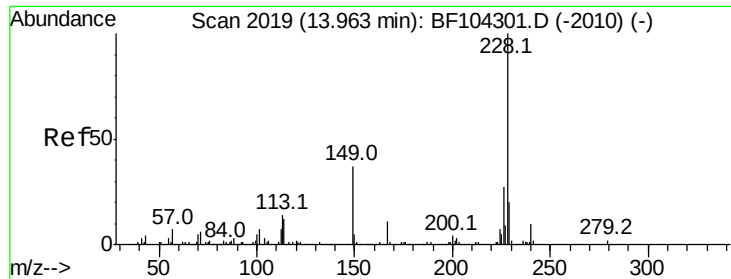
Tot Ion:202 Resp: 187191
Ion Ratio Lower Upper
202 100
200 21.0 17.4 26.2
203 17.5 14.3 21.5



#78
Terphenyl-d14
Concen: 75.601 ng
RT: 12.93 min Scan# 1843
Delta R.T. 0.01 min
Lab File: BF104769.D
Acq: 24 Apr 2018 21:01

Tgt Ion:244 Resp: 748156
Ion Ratio Lower Upper
244 100
212 6.8 5.4 8.0
122 13.0 11.0 16.4





#80

Benzo(a)anthracene

Concen: 7.051 ng

RT: 13.98 min Scan# 2022

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

Instrument :

BNA_F

ClientSampleId :

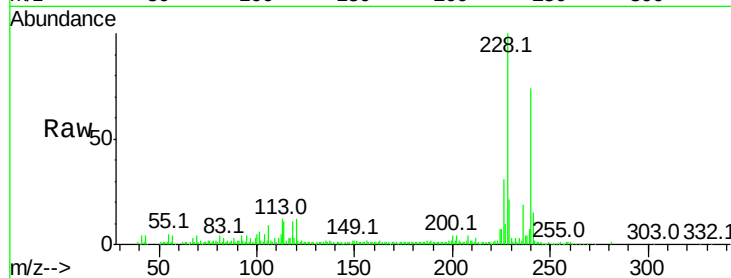
Tot Ion:228 Resp: 95038

Ion Ratio Lower Upper

228 100

226 31.1 22.6 33.8

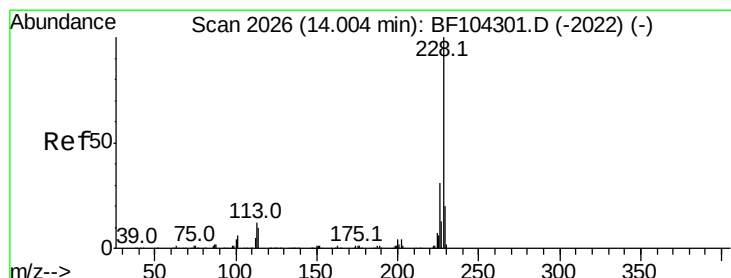
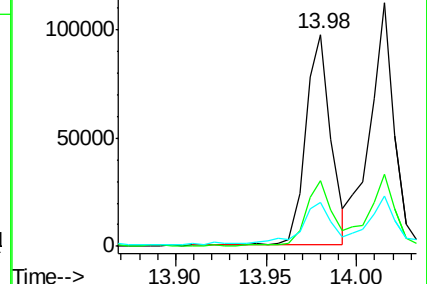
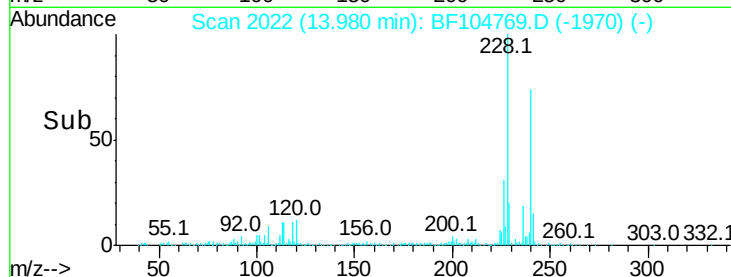
229 20.8 15.8 23.6



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: 7.598 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

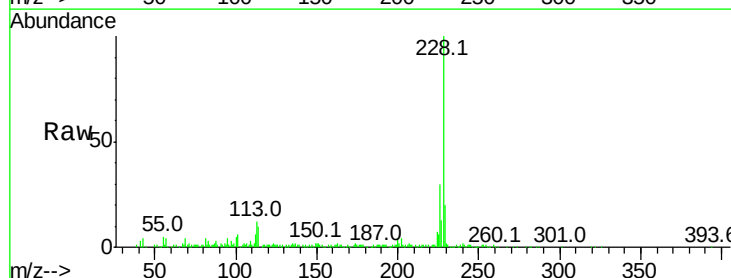
Tgt Ion:228 Resp: 105188

Ion Ratio Lower Upper

228 100

226 29.8 25.0 37.6

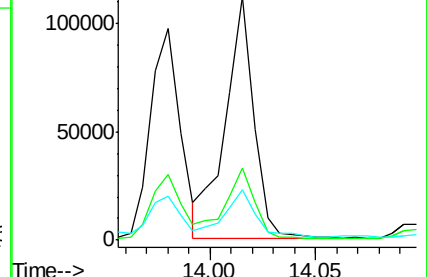
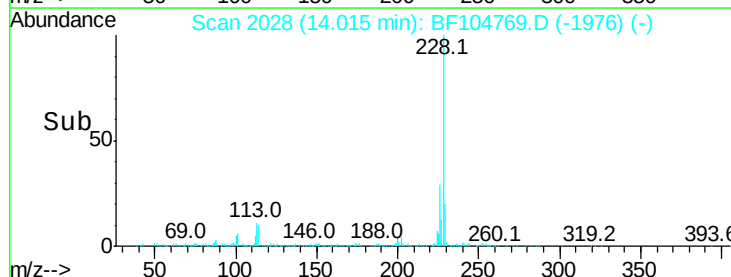
229 20.4 16.2 24.4

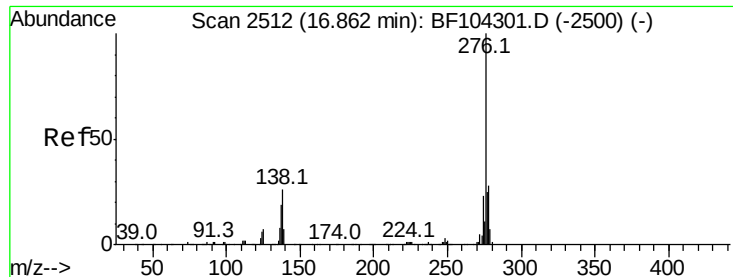


Abundance Ion 228.00 (227.70 to 228.70): E

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: 3.489 ng

RT: 16.93 min Scan# 2523

Delta R.T. 0.02 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

Instrument :

BNA_F

ClientSampled :

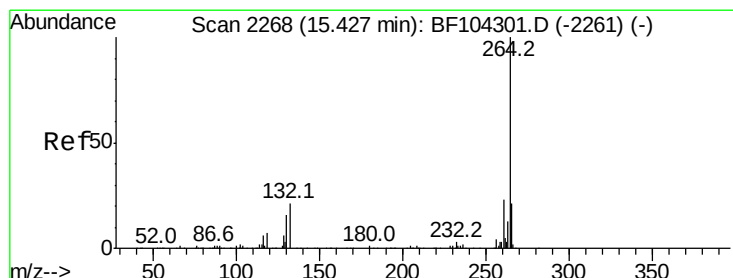
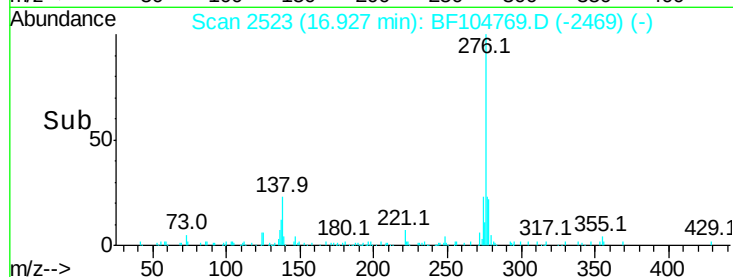
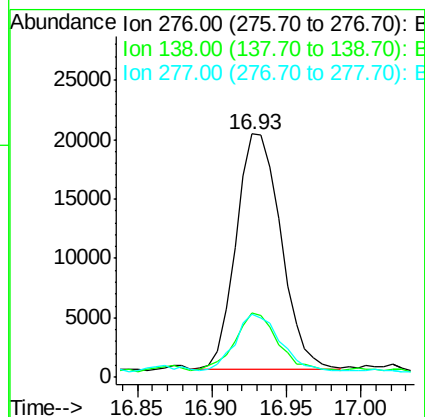
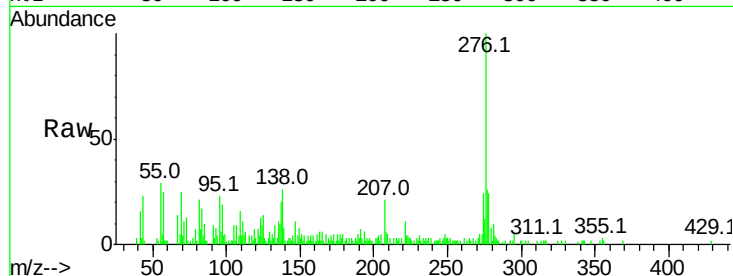
Tot Ion:276 Resp: 41028

Ion Ratio Lower Upper

276 100

138 23.6 25.0 37.6#

277 25.0 20.1 30.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

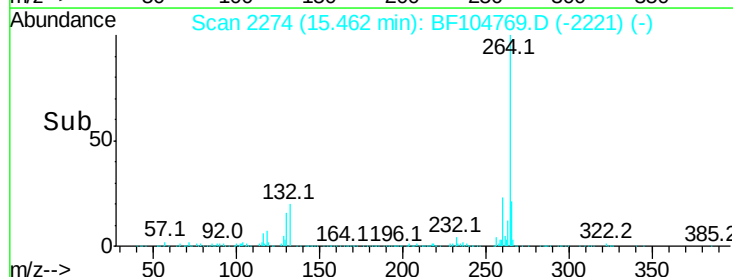
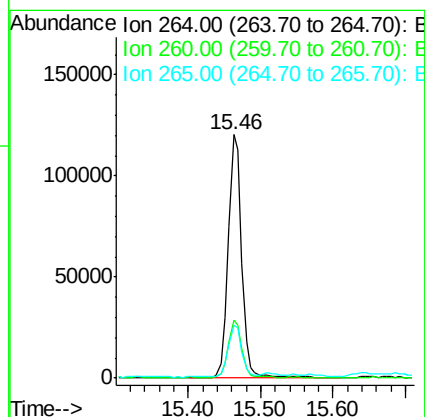
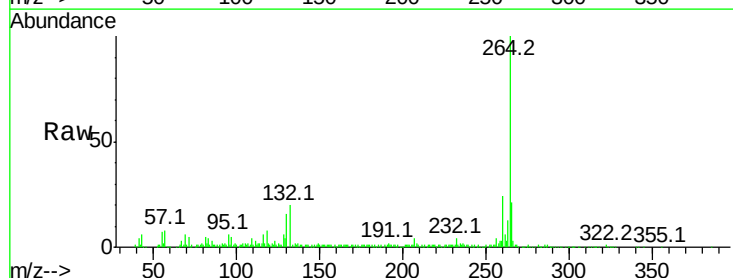
Tgt Ion:264 Resp: 157818

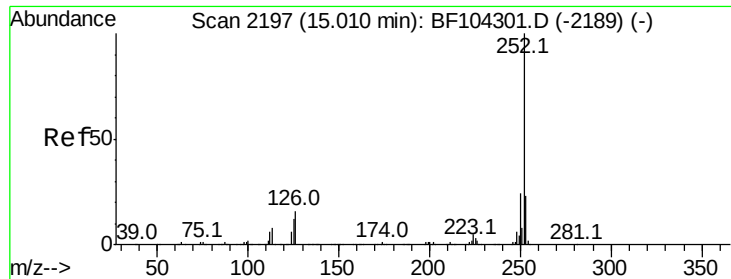
Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

265 21.5 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 14.755 ng

RT: 15.03 min Scan# 2201

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

Instrument :

BNA_F

ClientSampleId :

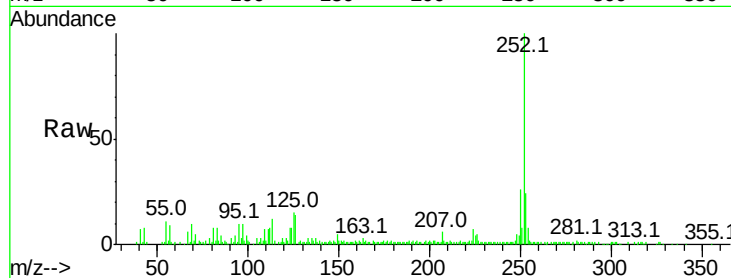
Tot Ion:252 Resp: 147069

Ion Ratio Lower Upper

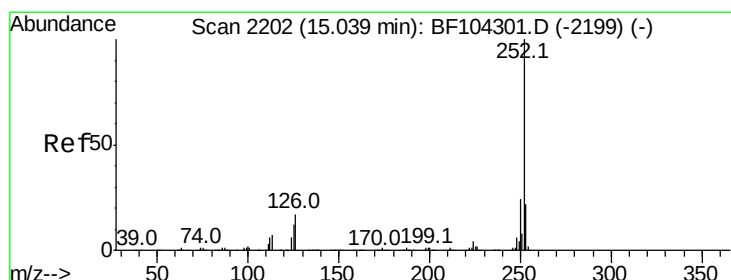
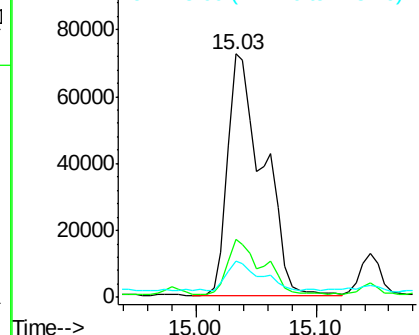
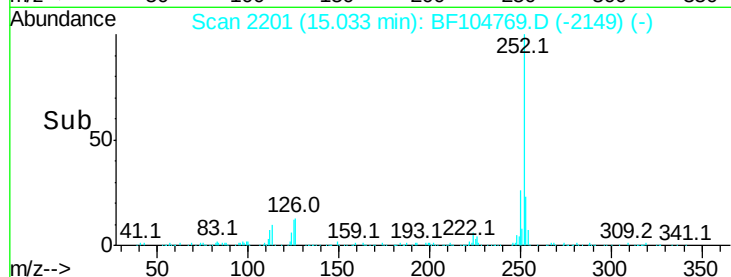
252 100

253 23.9 17.0 25.6

125 14.9 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: 15.629 ng

RT: 15.03 min Scan# 2201

Delta R.T. -0.02 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

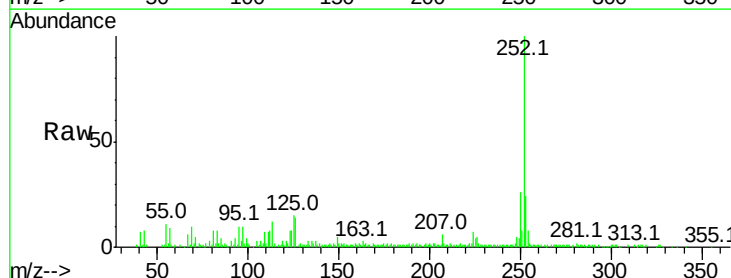
Tgt Ion:252 Resp: 147069

Ion Ratio Lower Upper

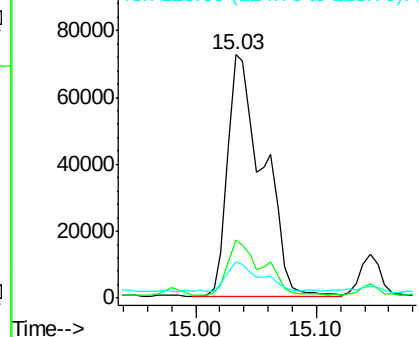
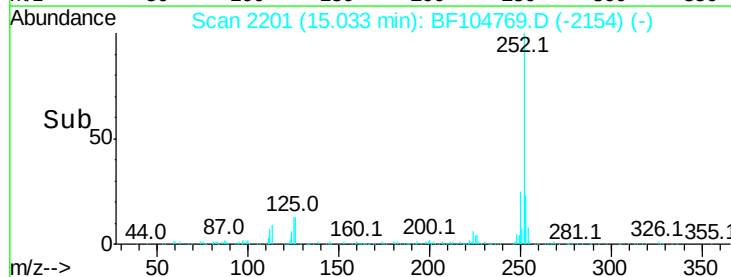
252 100

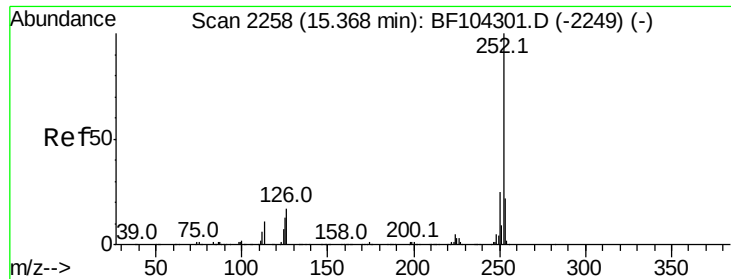
253 23.9 17.9 26.9

125 14.9 10.2 15.2



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





#89

Benzo(a)pyrene

Concen: 6.710 ng

RT: 15.40 min Scan# 2263

Delta R.T. 0.01 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

Instrument :

BNA_F

ClientSampleId :

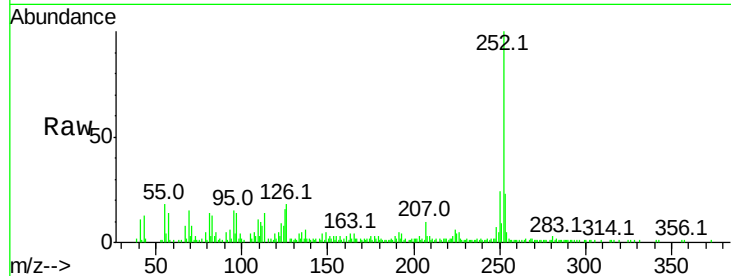
Tot Ion:252 Resp: 59847

Ion Ratio Lower Upper

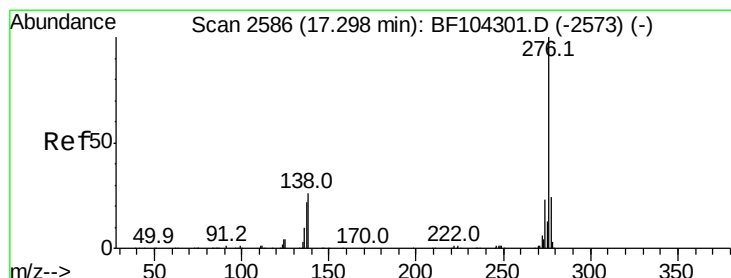
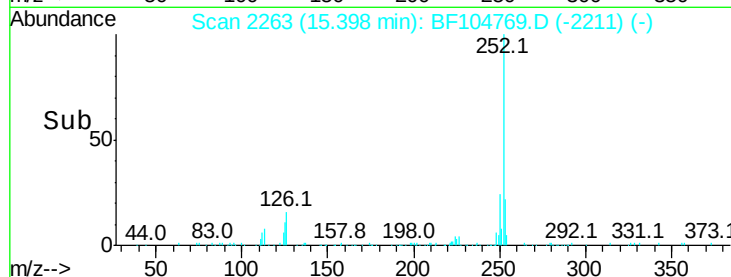
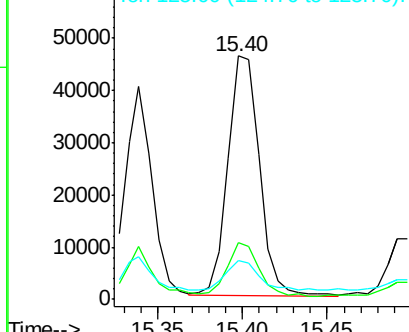
252 100

253 23.3 17.1 25.7

125 16.0 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: 6.315 ng

RT: 17.38 min Scan# 2600

Delta R.T. 0.03 min

Lab File: BF104769.D

Acq: 24 Apr 2018 21:01

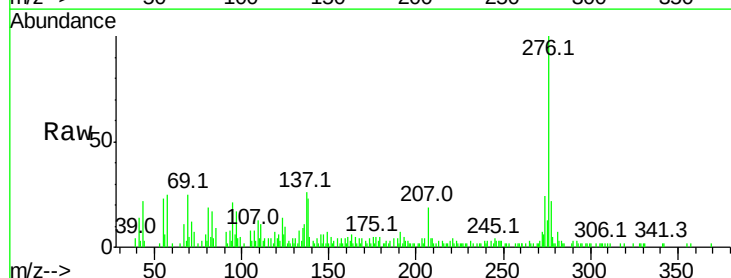
Tgt Ion:276 Resp: 44815

Ion Ratio Lower Upper

276 100

277 22.4 17.9 26.9

138 22.8 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

