

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
 Data File : BF104741.D
 Acq On : 24 Apr 2018 7:24
 Operator : JU/SJ
 Sample : J2482-06DL 5X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 24 08:34:25 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	6.80	152	105007	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	405347	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	168038	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	249885	20.00	ng	0.00
75) Chrysene-d12	13.99	240	183605	20.00	ng	0.00
86) Perylene-d12	15.46	264	138484	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	123349	17.96	ng	0.00
7) Phenol-d6	6.44	99	152379	18.06	ng	0.00
23) Nitrobenzene-d5	7.37	82	80328	12.94	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	27413	15.73	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	177733	16.71	ng	0.00
78) Terphenyl-d14	12.92	244	129995	16.14	ng	0.00

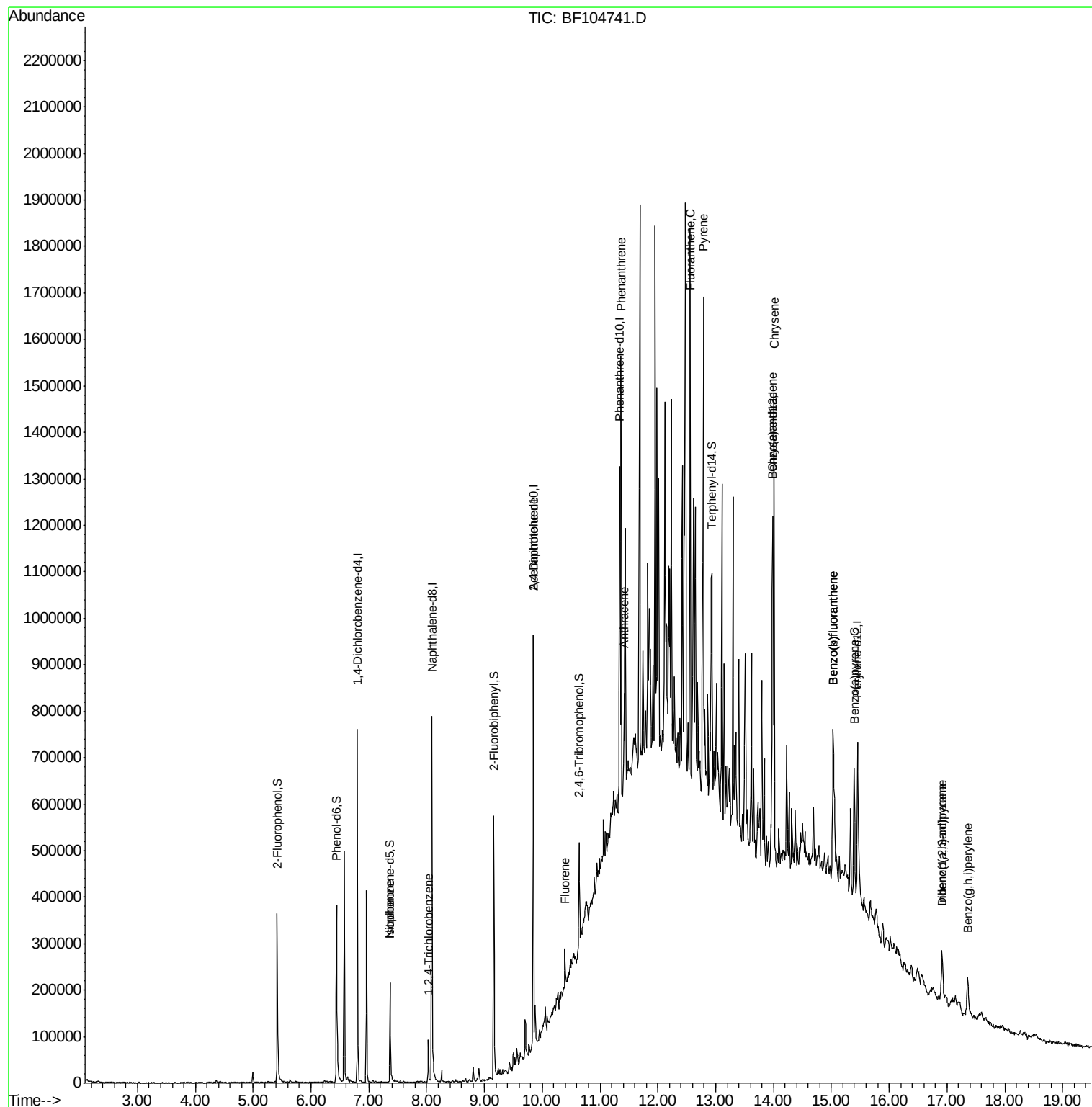
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.36	77	367	Below Cal		# 57
25) Isophorone	7.37	82	80326	6.119	ng	# 64
30) 1,2,4-Trichlorobenzene	8.03	180	18835	3.105	ng	# 97
56) 2,4-Dinitrotoluene	9.85	165	20822	6.474	ng	# 23
57) Fluorene	10.39	166	23177	2.141	ng	# 98
70) Phenanthrene	11.36	178	327429	23.529	ng	# 99
71) Anthracene	11.42	178	93823	6.633	ng	# 99
74) Fluoranthene	12.56	202	490328	33.724	ng	# 99
76) Benzidine	12.69	184	6086	Below Cal		# 42
77) Pyrene	12.79	202	457524	33.618	ng	# 99
80) Benzo(a)anthracene	13.97	228	217613	19.839	ng	# 98
82) Chrysene	14.02	228	175959	15.618	ng	# 98
85) Indeno(1,2,3-cd)pyrene	16.92	276	68895	7.198	ng	# 93
87) Benzo(b)fluoranthene	15.03	252	243667	27.859	ng	# 94
88) Benzo(k)fluoranthene	15.03	252	243667	29.509	ng	# 97
89) Benzo(a)pyrene	15.40	252	126664	16.185	ng	# 97
90) Dibenzo(a,h)anthracene	16.92	278	17403	2.708	ng	# 89
91) Benzo(g,h,i)perylene	17.36	276	68676	11.029	ng	# 94

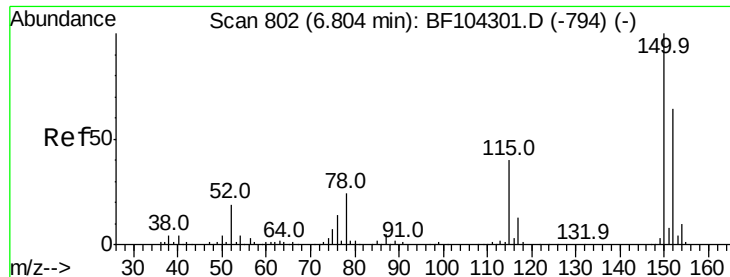
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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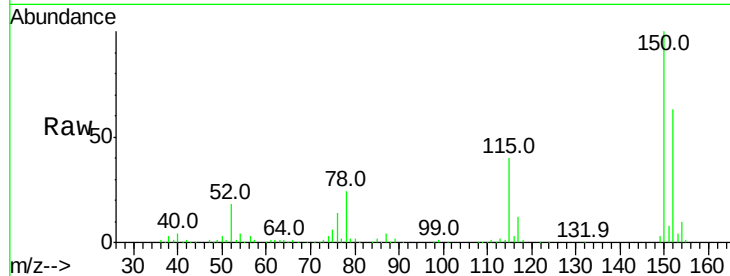


#1

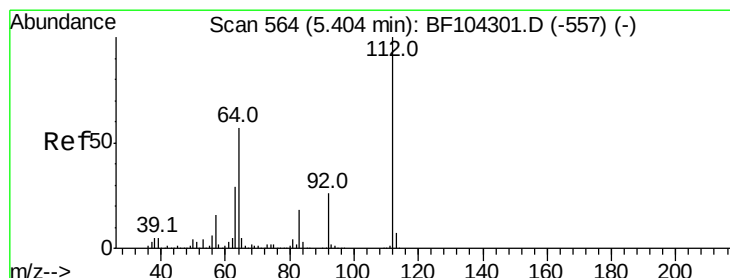
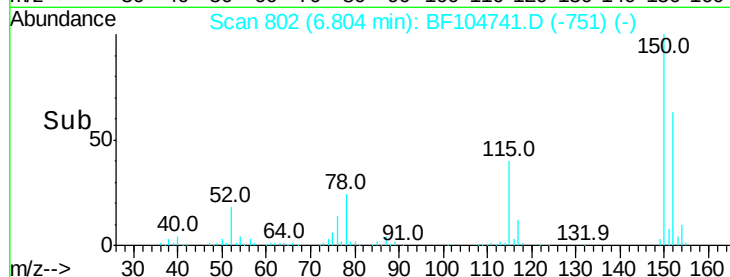
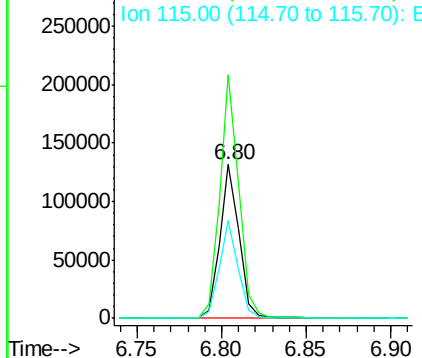
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 105007
Ion Ratio Lower Upper
152 100
150 158.6 124.6 186.8
115 63.6 50.1 75.1



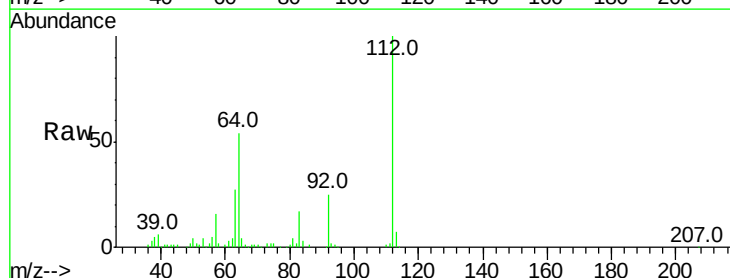
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



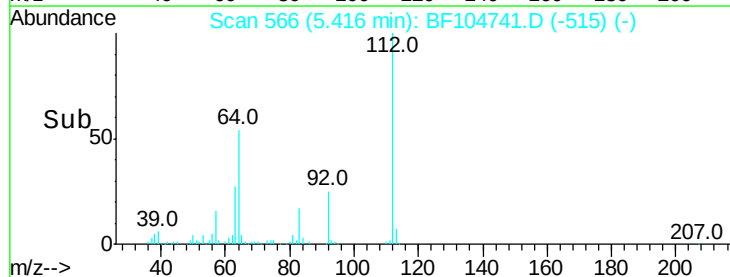
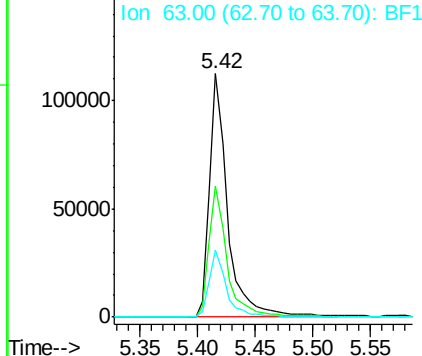
#5

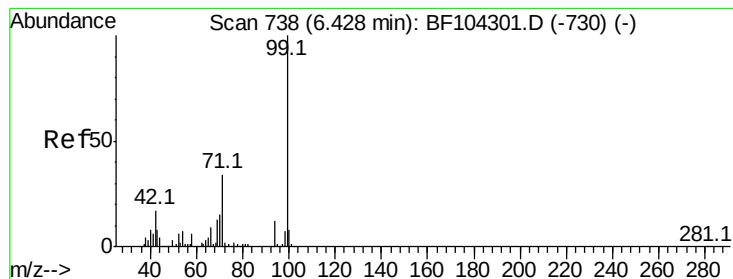
2-Fluorophenol
Concen: 17.961 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Tgt Ion:112 Resp: 123349
Ion Ratio Lower Upper
112 100
64 53.8 47.9 71.9
63 27.3 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: 18.059 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

Instrument :

BNA_F

ClientSampleId :

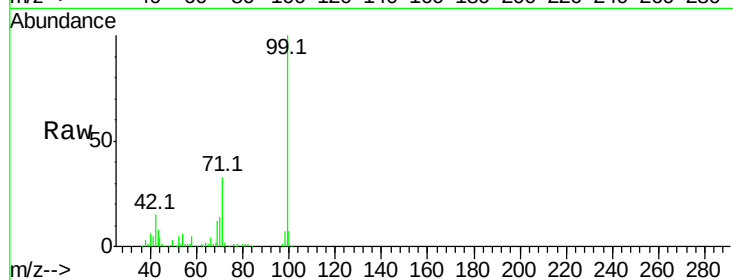
Tot Ion: 99 Resp: 152379

Ion Ratio Lower Upper

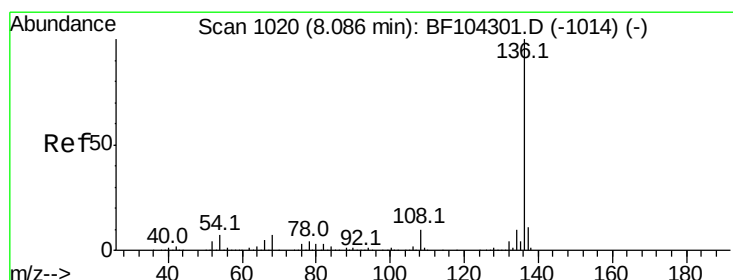
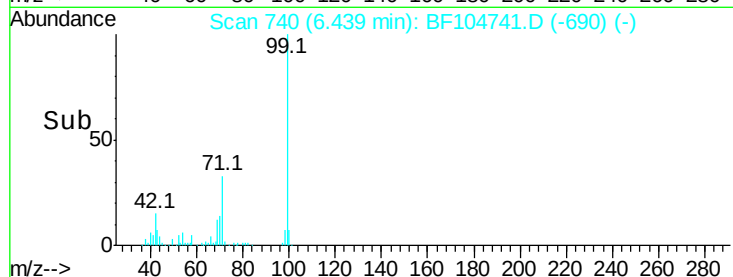
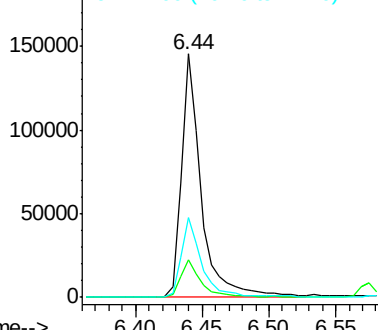
99 100

42 15.3 14.5 21.7

71 32.9 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.00 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

Tgt Ion: 136 Resp: 405347

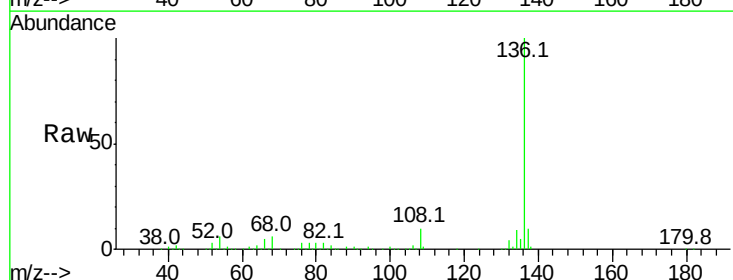
Ion Ratio Lower Upper

136 100

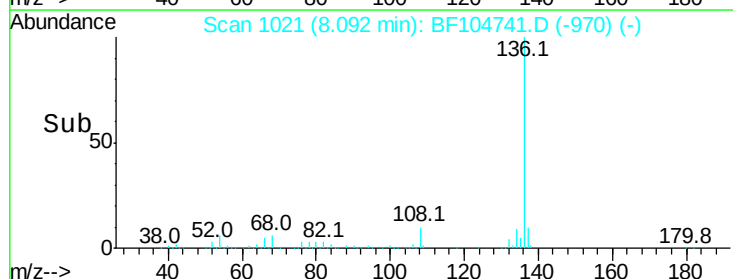
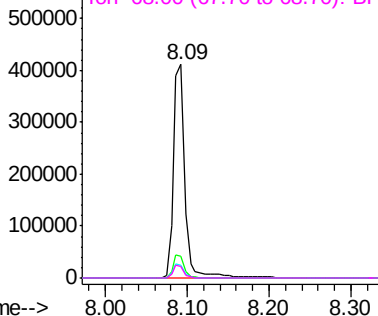
137 10.4 8.9 13.3

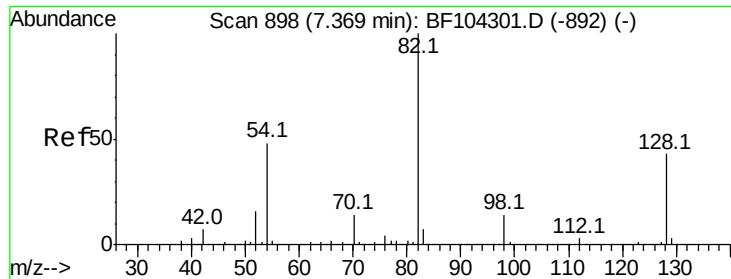
54 5.9 6.6 9.8#

68 5.7 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

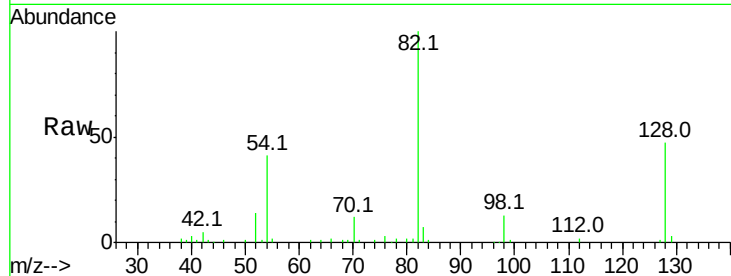




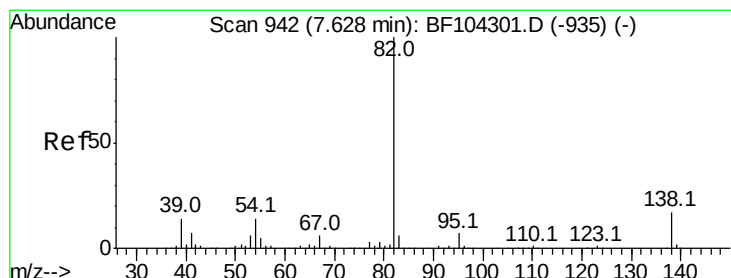
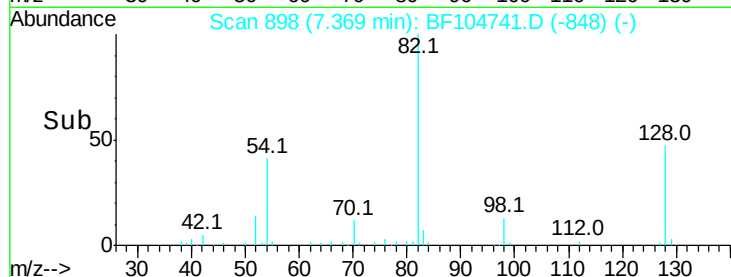
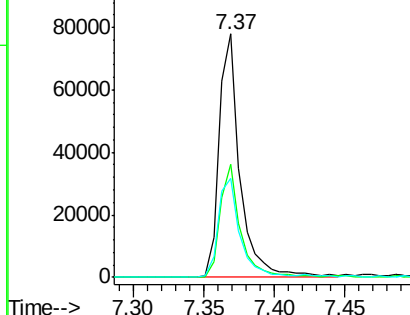
#23
Nitrobenzene-d5
Concen: 12.940 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	80328
Ion Ratio	Lower	Upper	
82	100		
128	46.7	36.1	54.1
54	40.7	41.4	62.2#

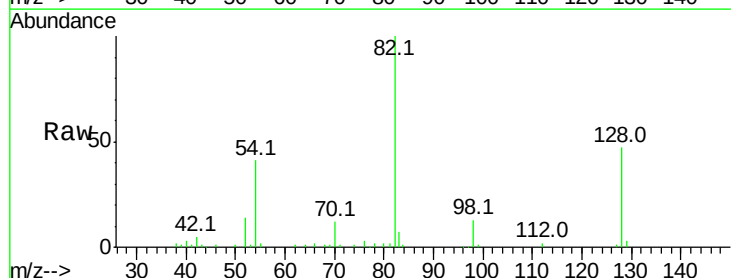


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

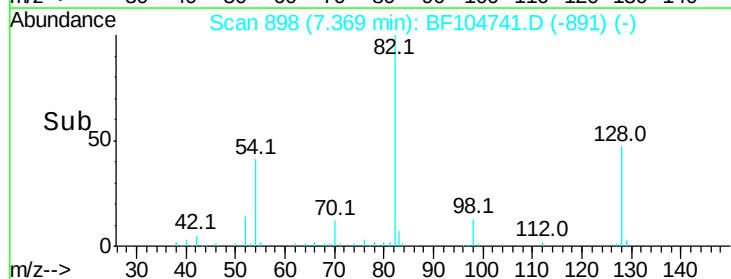
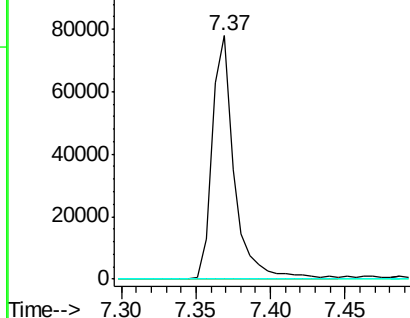


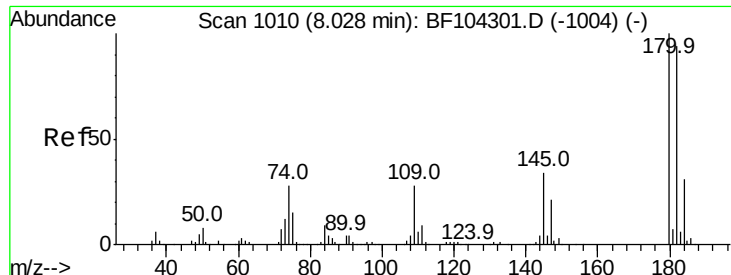
#25
Isophorone
Concen: 6.119 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.26 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Tgt Ion	82	Resp	80326
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

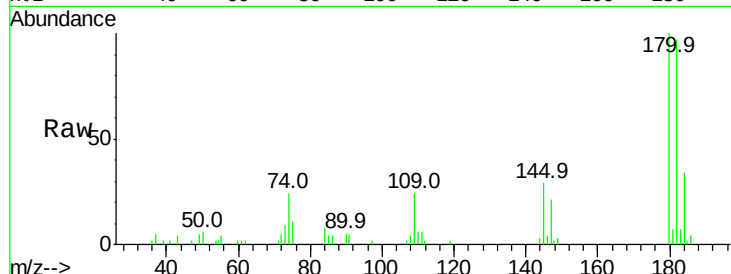




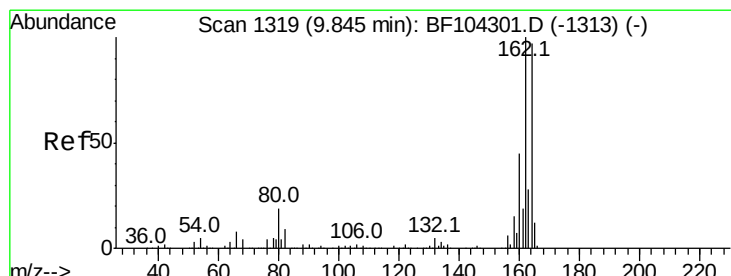
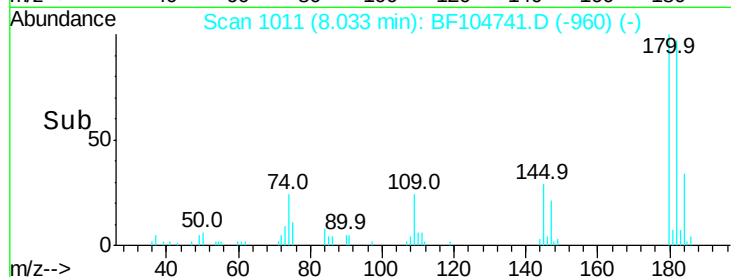
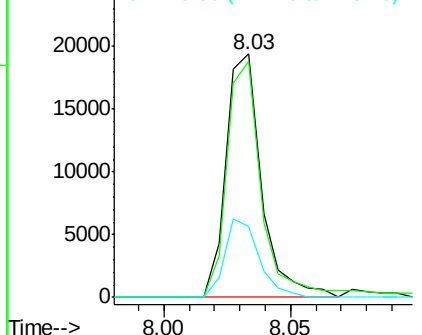
#30
 1,2,4-Trichlorobenzene
 Concen: 3.105 ng
 RT: 8.03 min Scan# 1011
 Delta R.T. -0.00 min
 Lab File: BF104741.D
 Acq: 24 Apr 2018 7:24

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:180 Resp: 18835
 Ion Ratio Lower Upper
 180 100
 182 97.0 76.8 115.2
 145 29.0 26.5 39.7

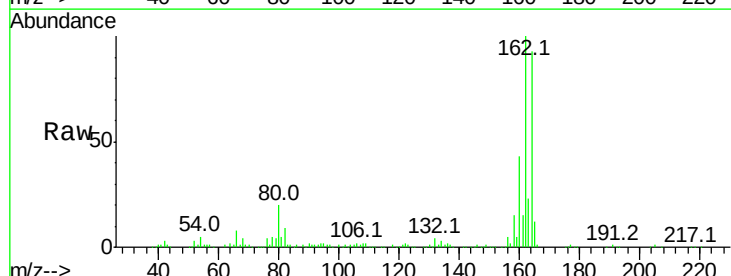


Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E

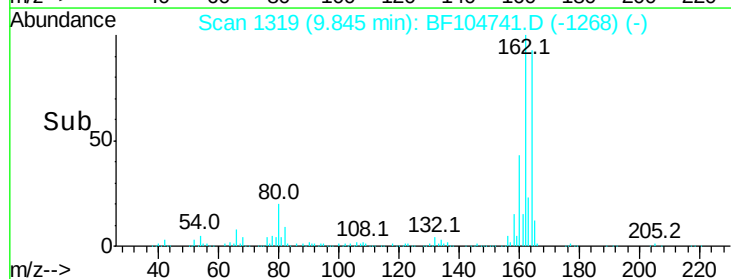
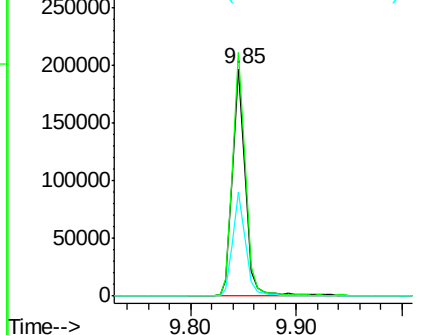


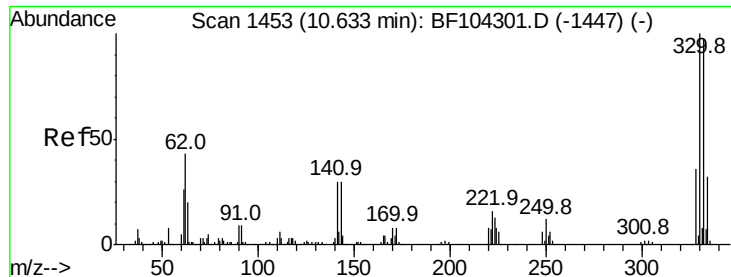
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: BF104741.D
 Acq: 24 Apr 2018 7:24

Tgt Ion:164 Resp: 168038
 Ion Ratio Lower Upper
 164 100
 162 107.1 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

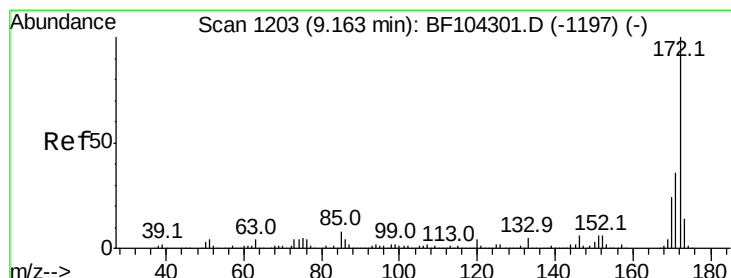
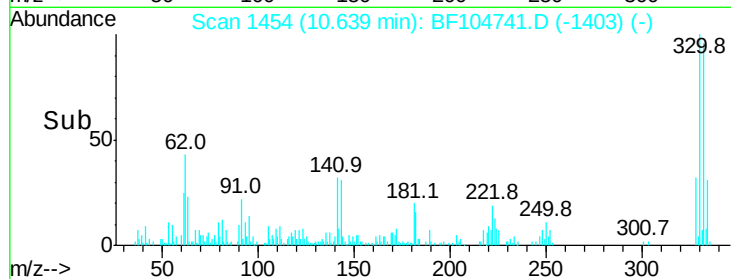
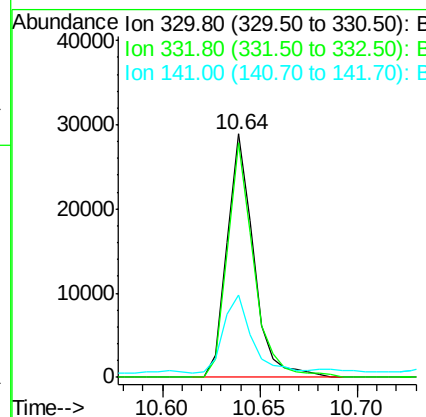
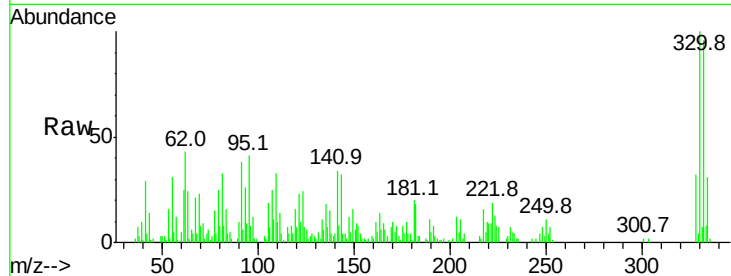




#41
 2,4,6-Tribromophenol
 Concen: 15.727 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.00 min
 Lab File: BF104741.D
 Acq: 24 Apr 2018 7:24

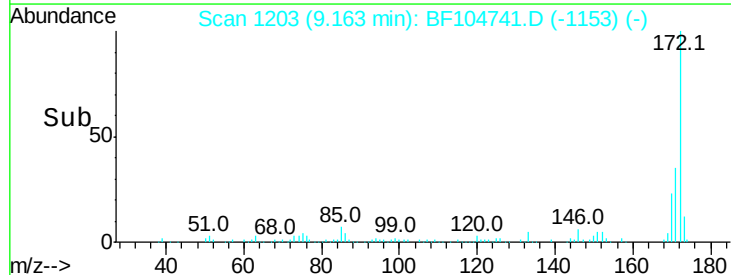
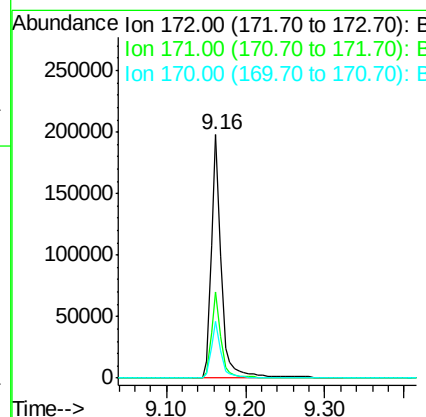
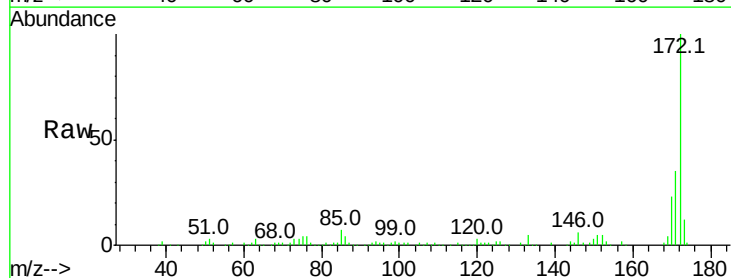
Instrument :
 BNA_F
 ClientSampleId :

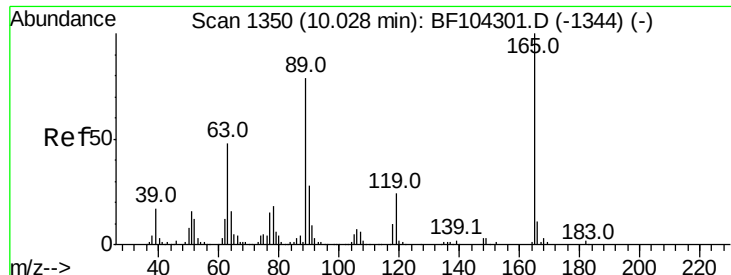
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.0	115.6
141	34.0	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 16.709 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF104741.D
 Acq: 24 Apr 2018 7:24

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.7	44.5
170	23.4	19.6	29.4

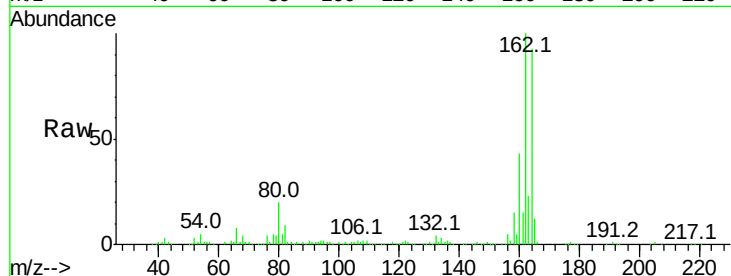




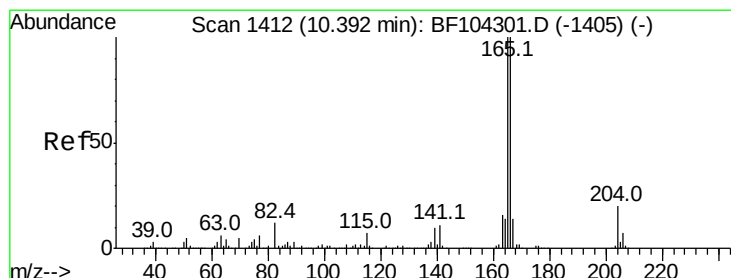
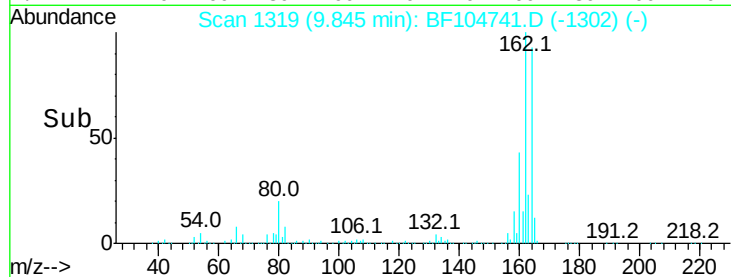
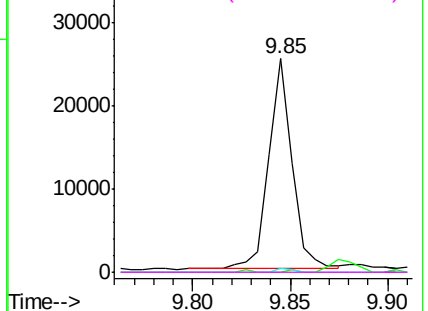
#56
2,4-Dinitrotoluene
Concen: 6.474 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.20 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 20822
Ion Ratio Lower Upper
165 100
63 0.0 36.4 54.6#
89 1.8 57.8 86.6#
182 0.0 1.6 2.4#

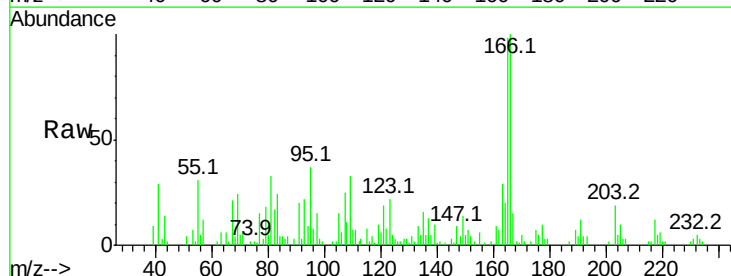


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

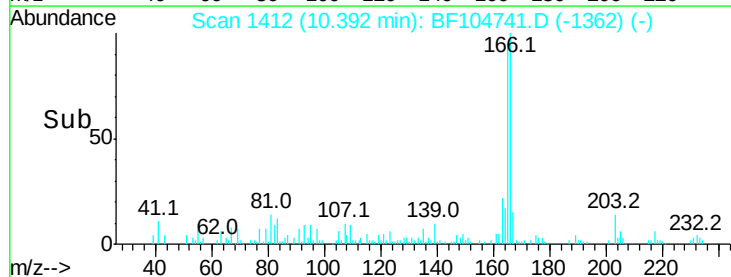
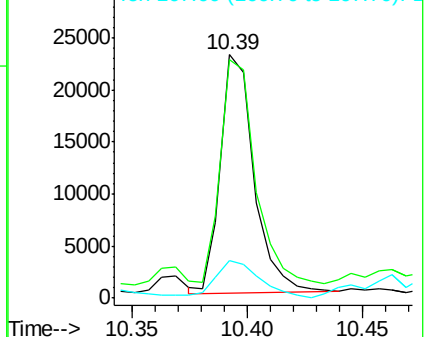


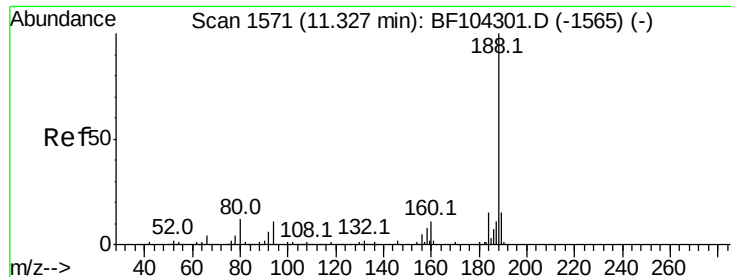
#57
Fluorene
Concen: 2.141 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Tgt Ion:166 Resp: 23177
Ion Ratio Lower Upper
166 100
165 98.2 79.8 119.8
167 15.4 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

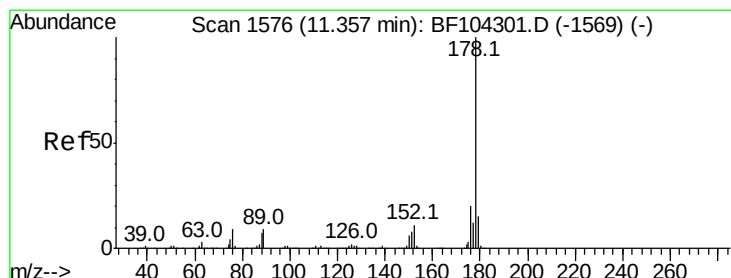
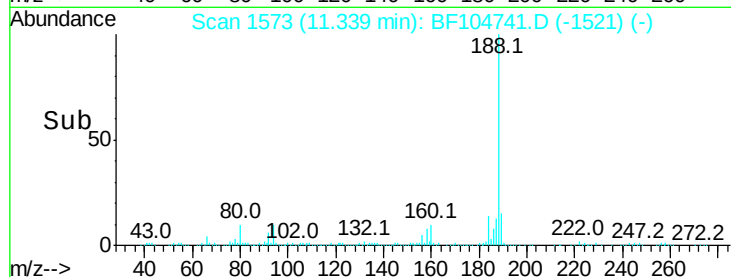
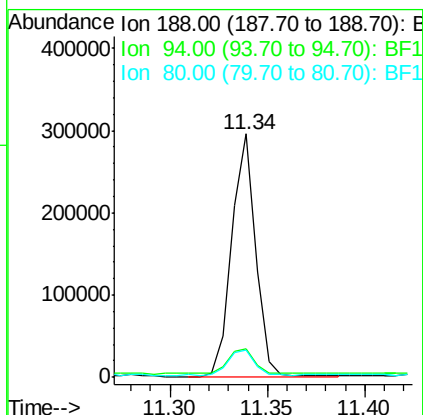
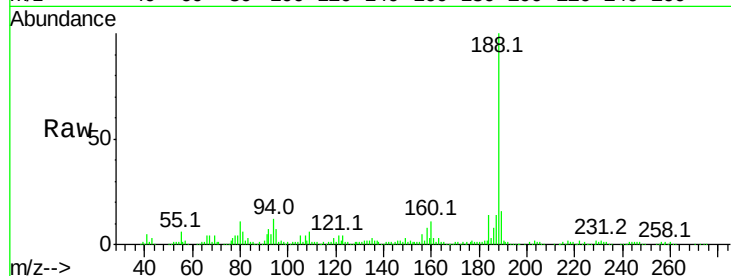




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. 0.01 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

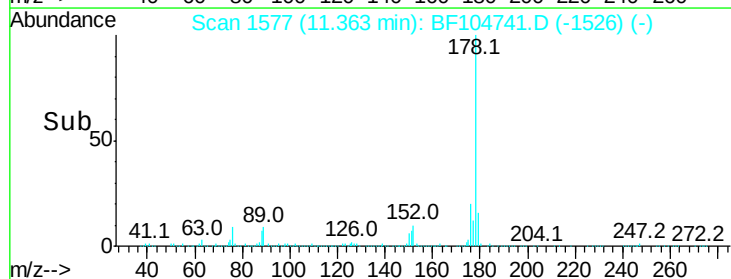
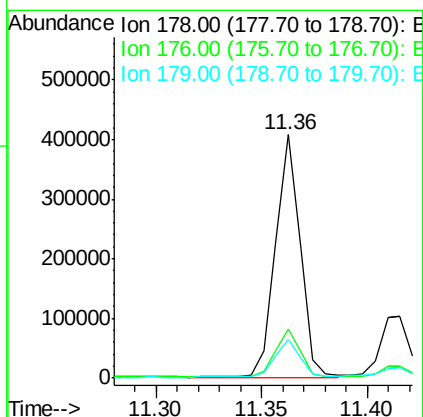
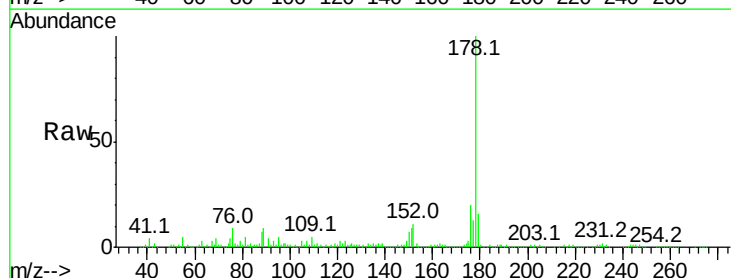
Instrument :
BNA_F
ClientSampleId :

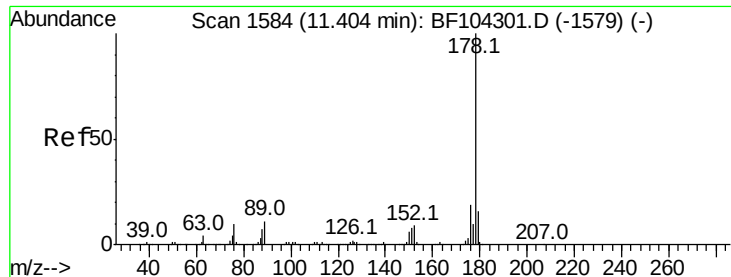
Tot Ion:188 Resp: 249885
Ion Ratio Lower Upper
188 100
94 11.5 8.5 12.7
80 11.1 9.2 13.8



#70
Phenanthrene
Concen: 23.529 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.00 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Tgt Ion:178 Resp: 327429
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 16.0 13.0 19.6





#71

Anthracene

Concen: 6.633 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.00 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

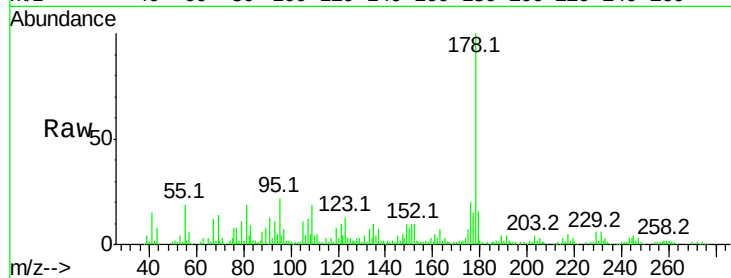
Instrument :

BNA_F

ClientSampled :

Tot Ion:178 Resp: 93823

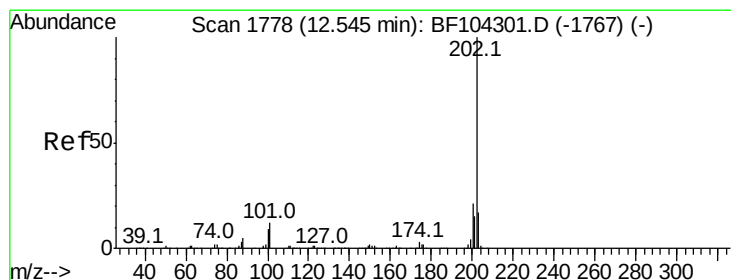
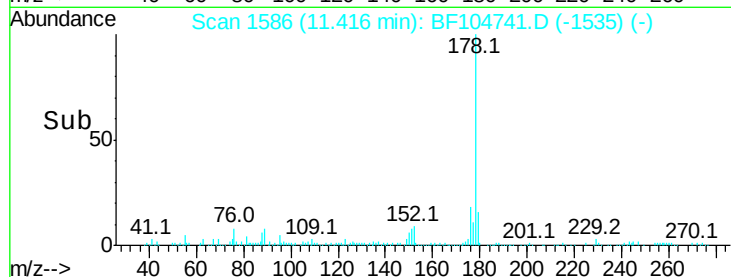
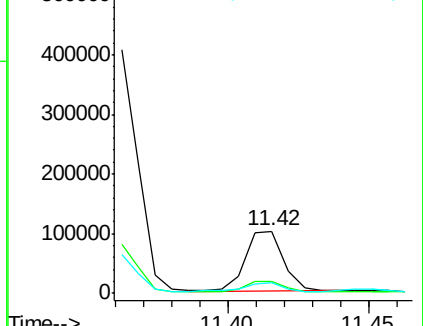
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	16.5	12.6	19.0



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: 33.724 ng

RT: 12.56 min Scan# 1780

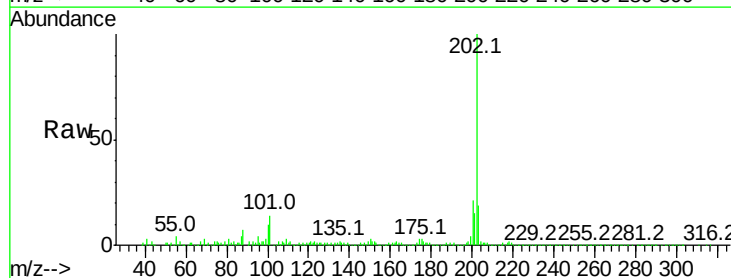
Delta R.T. 0.01 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

Tgt Ion:202 Resp: 490328

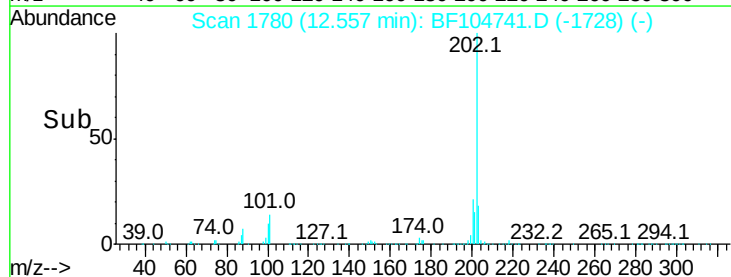
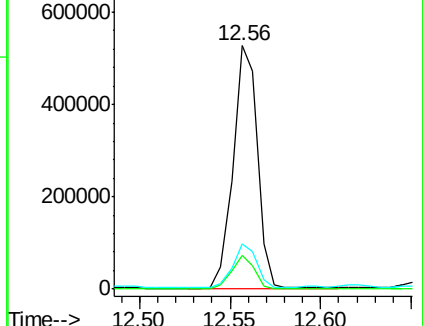
Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	34.1
203	18.6	0.0	38.1

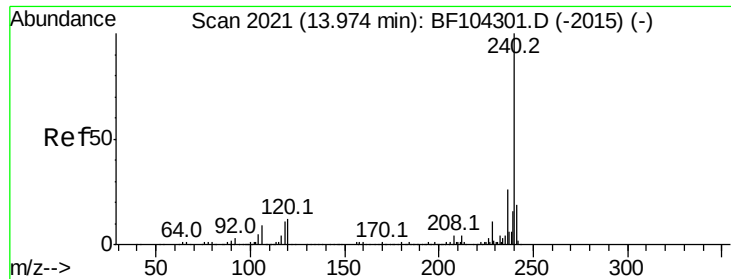


Abundance Ion 202.00 (201.70 to 202.70): E

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# 2023

Delta R.T. -0.00 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

Instrument :

BNA_F

ClientSampled :

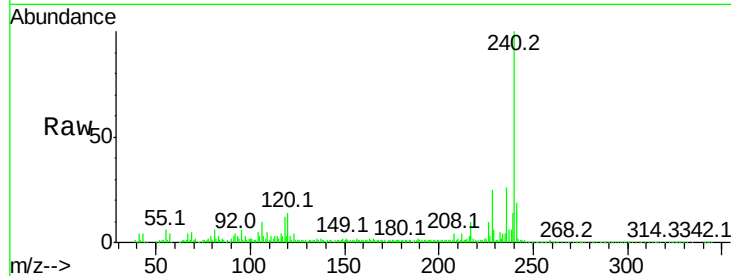
Tot Ion:240 Resp: 183605

Ion Ratio Lower Upper

240 100

120 13.7 9.5 14.3

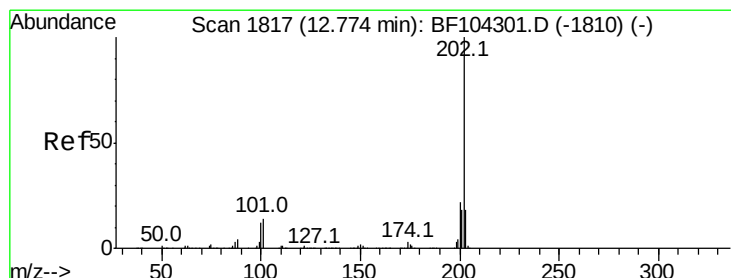
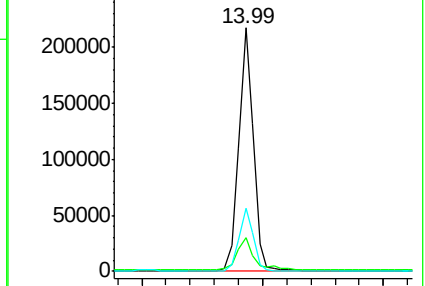
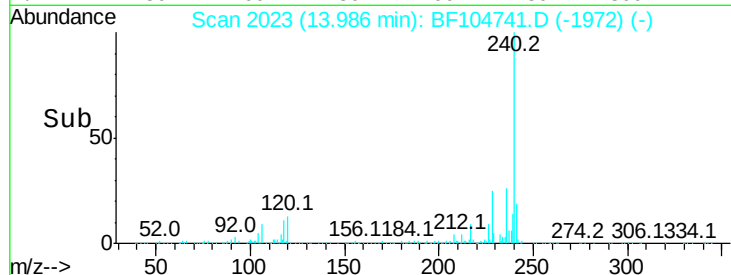
236 26.0 20.7 31.1



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: 33.618 ng

RT: 12.79 min Scan# 1819

Delta R.T. 0.01 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

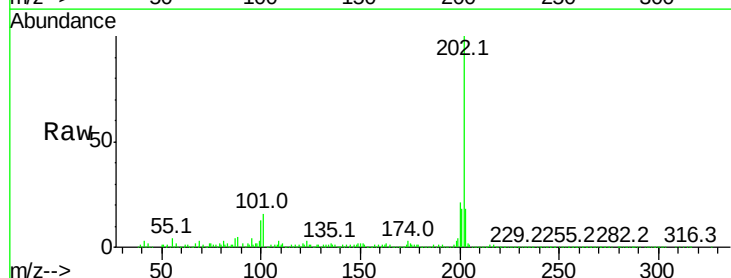
Tgt Ion:202 Resp: 457524

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

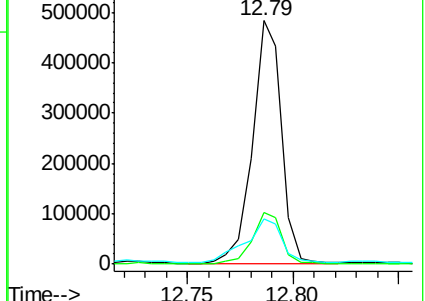
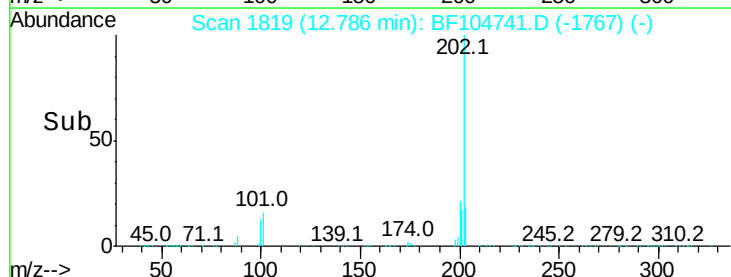
203 18.4 14.3 21.5

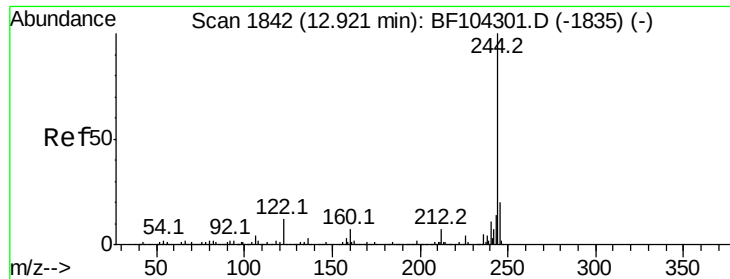


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 16.142 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.00 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

Instrument :

BNA_F

ClientSampleId :

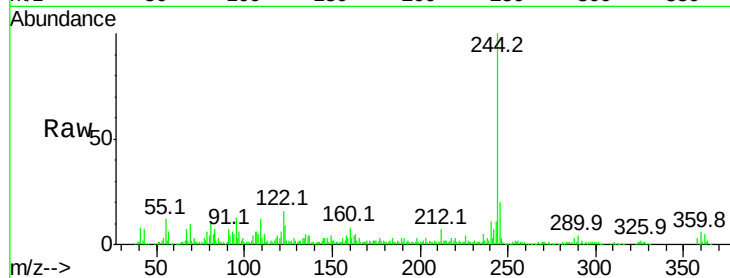
Tot Ion:244 Resp: 129995

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

122 15.9 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

12.92

150000

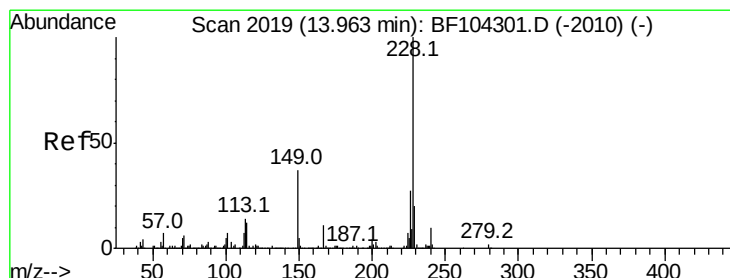
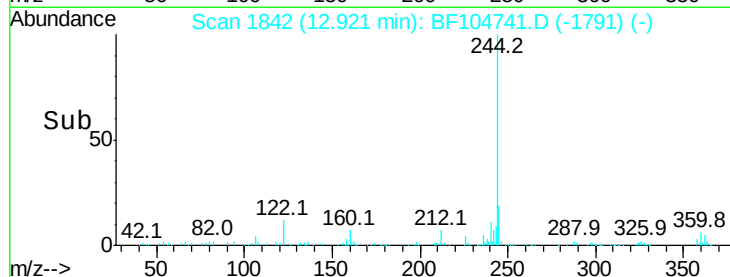
100000

50000

0

Time-->

12.85 12.90 12.95 13.00



#80

Benzo(a)anthracene

Concen: 19.839 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.00 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

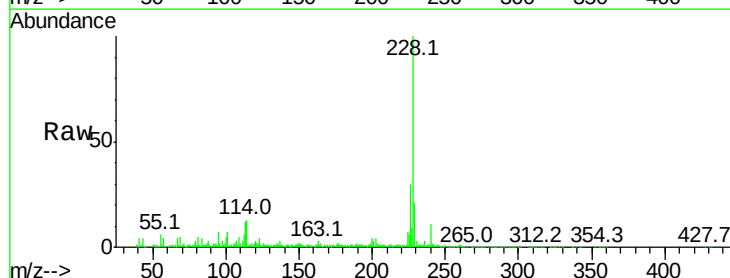
Tgt Ion:228 Resp: 217613

Ion Ratio Lower Upper

228 100

226 29.6 22.6 33.8

229 20.6 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

13.97

300000

250000

200000

150000

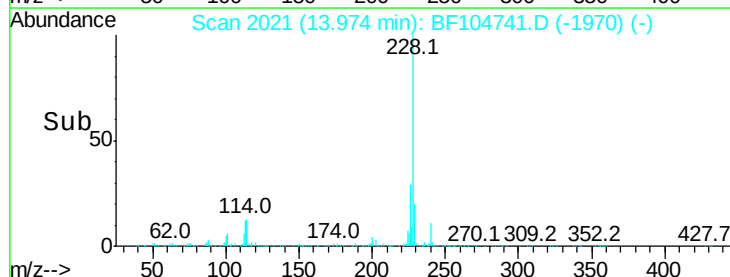
100000

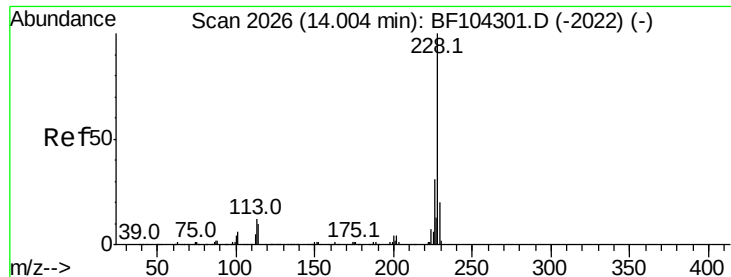
50000

0

Time-->

13.90 13.95 14.00

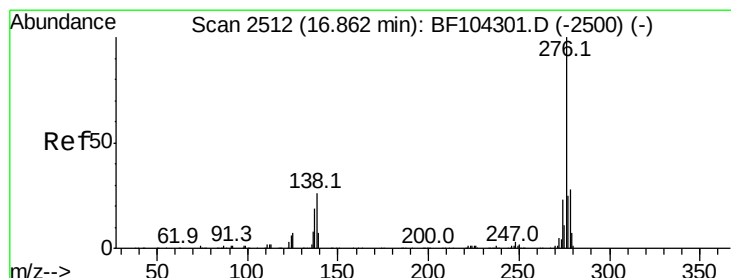
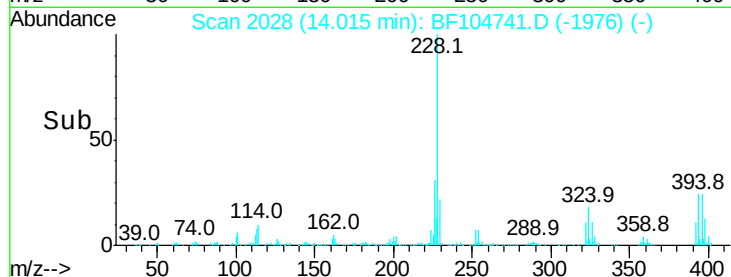
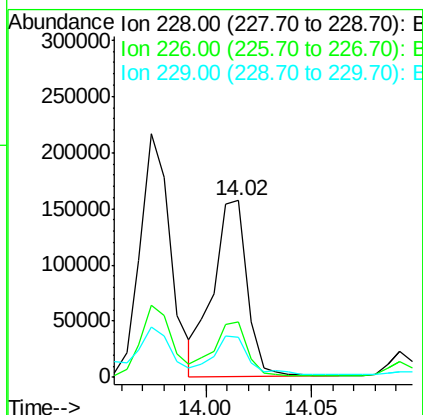
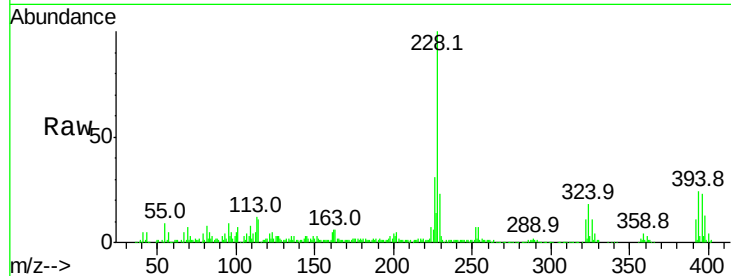




#82
Chrysene
Concen: 15.618 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.01 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

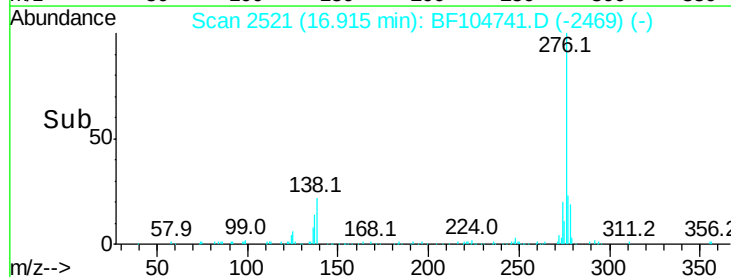
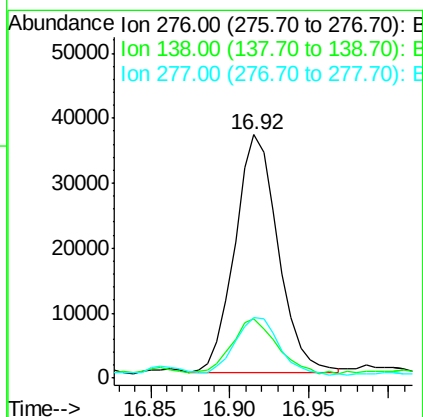
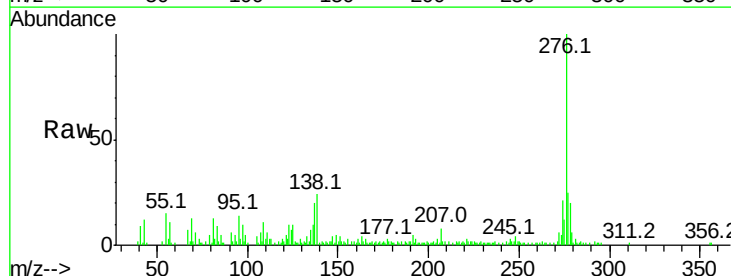
Instrument :
BNA_F
ClientSampleId :

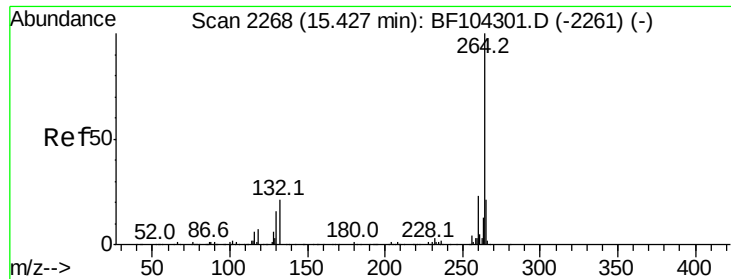
Tot Ion:228 Resp: 175959
Ion Ratio Lower Upper
228 100
226 31.1 25.0 37.6
229 22.9 16.2 24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 7.198 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.01 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Tgt Ion:276 Resp: 68895
Ion Ratio Lower Upper
276 100
138 24.4 25.0 37.6#
277 25.2 20.1 30.1

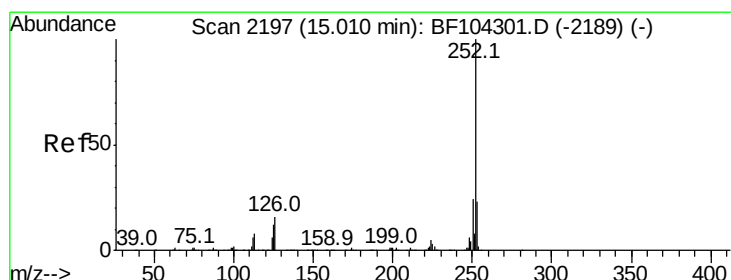
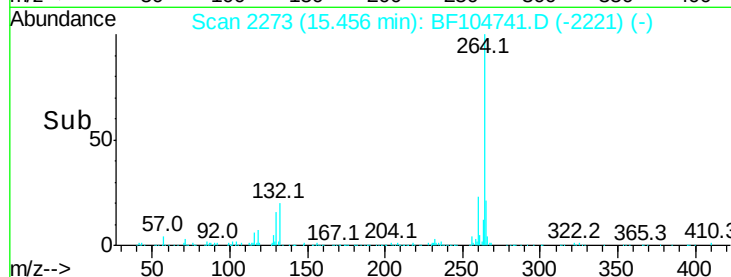
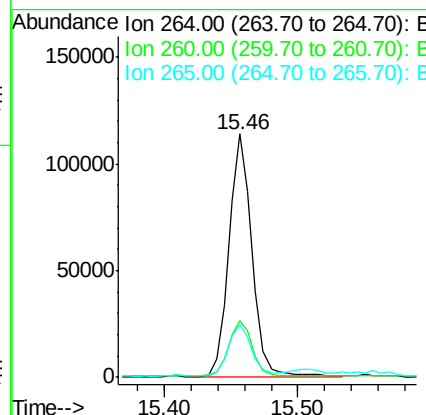
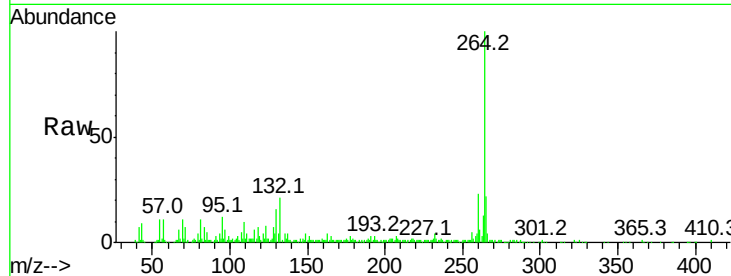




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.01 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

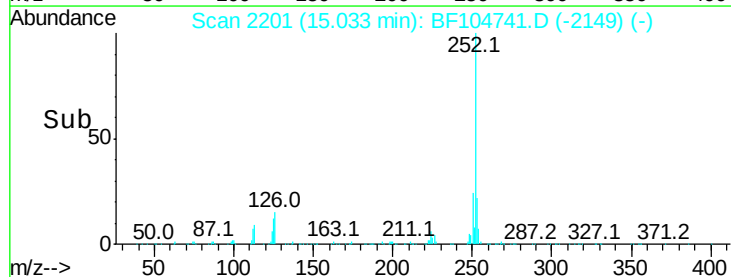
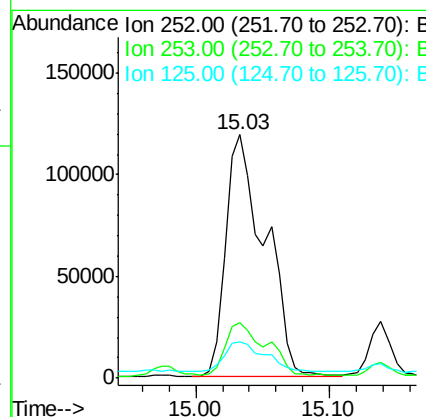
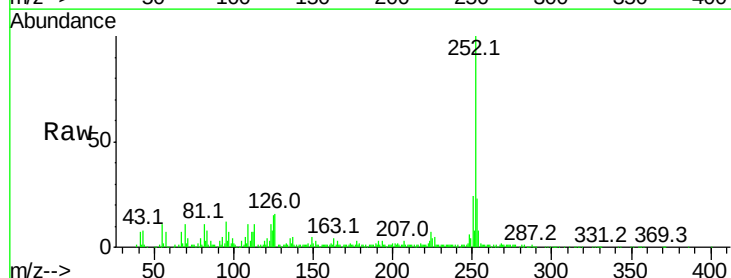
Instrument :
BNA_F
ClientSampleId :

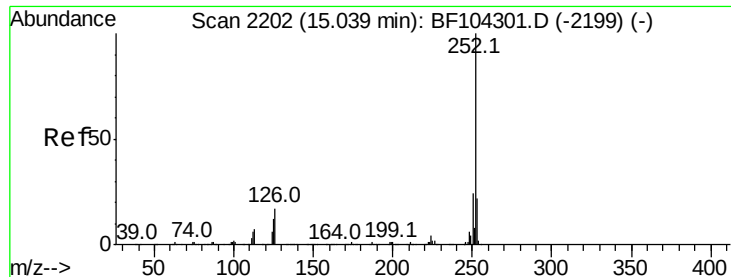
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.2	28.8
265	21.8	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 27.859 ng
RT: 15.03 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	14.8	9.0	13.6

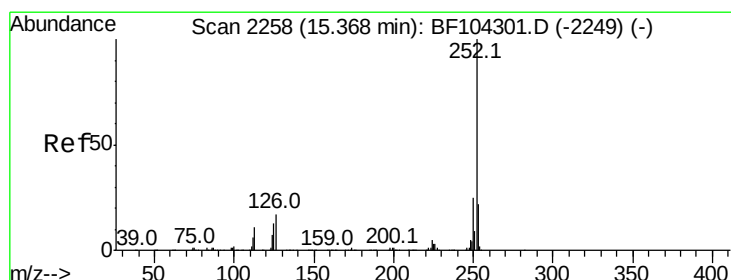
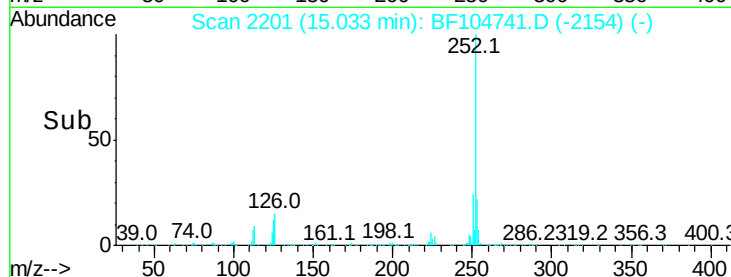
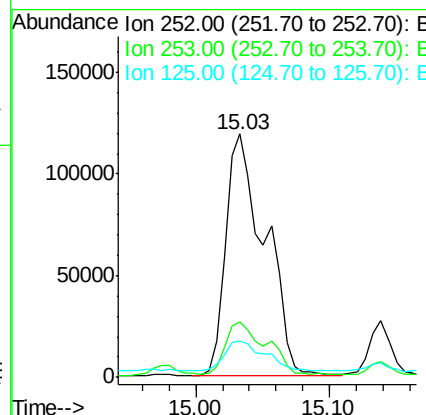
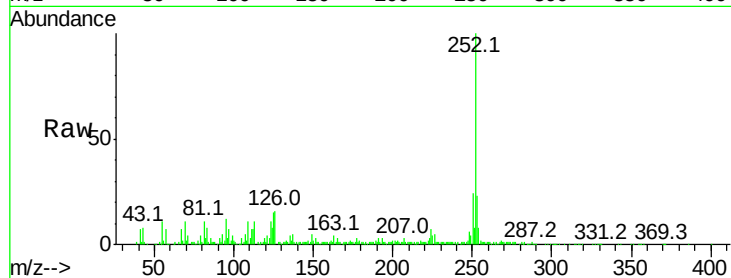




#88
Benzo(k)fluoranthene
Concen: 29.509 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.02 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

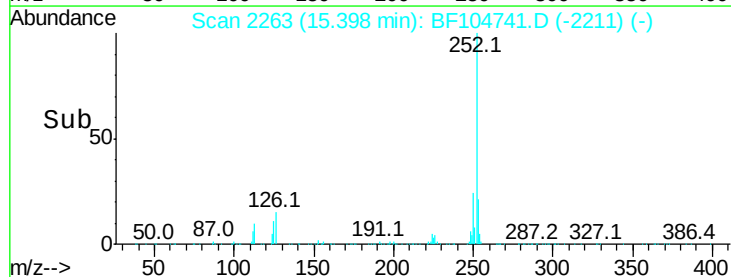
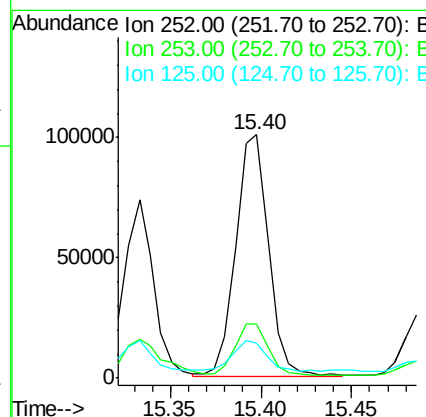
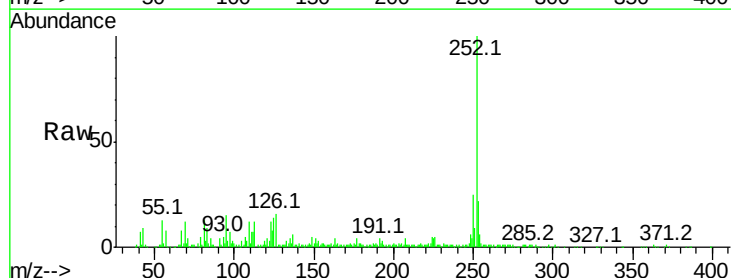
Instrument :
BNA_F
ClientSampleId :

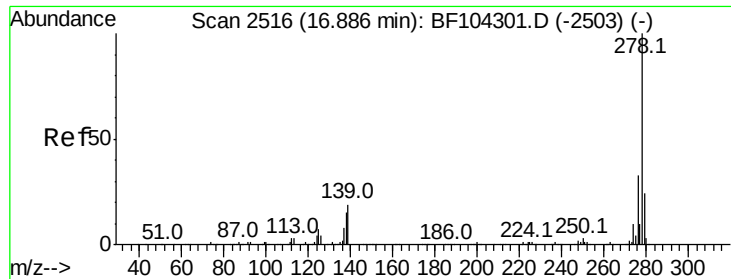
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	14.8	10.2	15.2



#89
Benzo(a)pyrene
Concen: 16.185 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF104741.D
Acq: 24 Apr 2018 7:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.1	25.7
125	14.3	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.708 ng

RT: 16.92 min Scan# 2522

Delta R.T. -0.01 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

Instrument :

BNA_F

ClientSampleId :

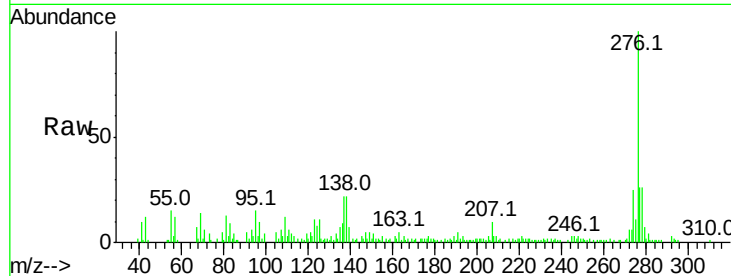
Tot Ion:278 Resp: 17403

Ion Ratio Lower Upper

278 100

139 28.1 15.9 23.9#

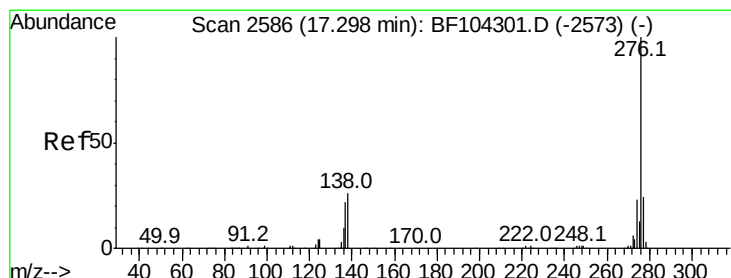
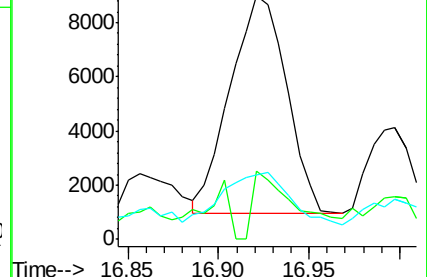
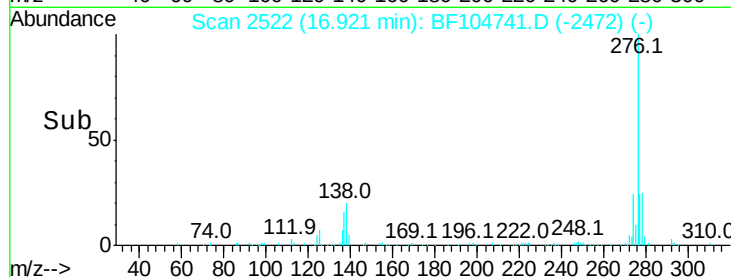
279 26.2 19.0 28.4



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: 11.029 ng

RT: 17.36 min Scan# 2596

Delta R.T. 0.01 min

Lab File: BF104741.D

Acq: 24 Apr 2018 7:24

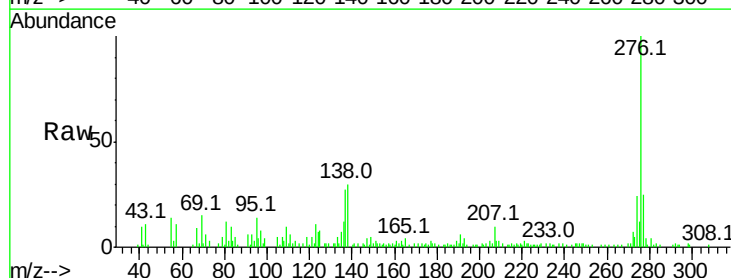
Tgt Ion:276 Resp: 68676

Ion Ratio Lower Upper

276 100

277 25.3 17.9 26.9

138 30.0 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

