

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041918\
 Data File : BF104634.D
 Acq On : 19 Apr 2018 18:05
 Operator : JU/SJ
 Sample : J2439-01 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 20 00:54:32 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 19 14:44:03 2018
 Response via : Initial Calibration

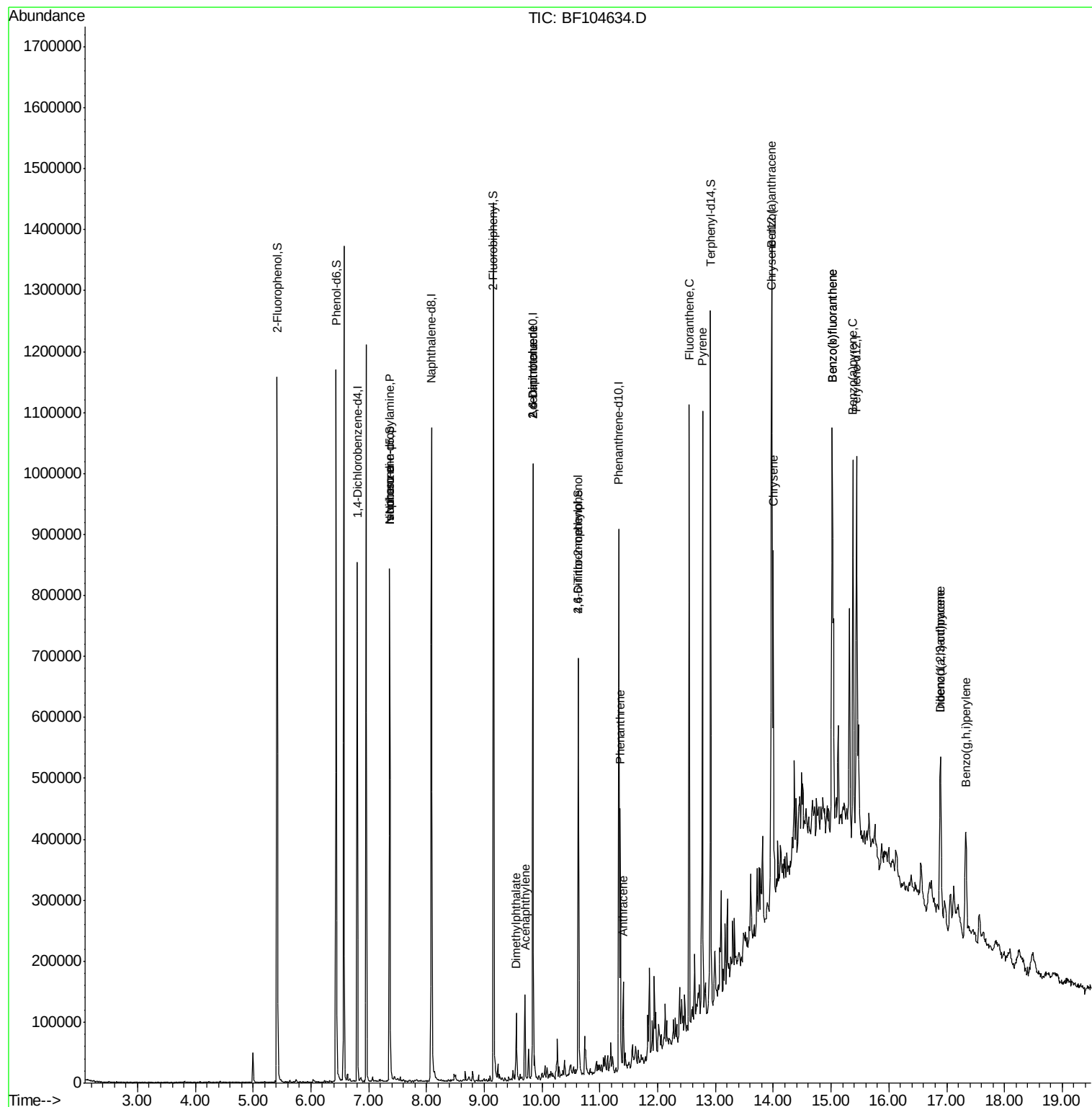
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	122961	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	477381	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	194803	20.00	ng	-0.01
63) Phenanthrene-d10	11.33	188	300274	20.00	ng	0.00
75) Chrysene-d12	13.97	240	270777	20.00	ng	-0.01
86) Perylene-d12	15.44	264	283476	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	351623	43.73	ng	0.00
7) Phenol-d6	6.43	99	418152	42.32	ng	-0.01
23) Nitrobenzene-d5	7.36	82	249277	34.10	ng	-0.02
41) 2,4,6-Tribromophenol	10.63	330	81388	40.28	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	470655	38.17	ng	-0.01
78) Terphenyl-d14	12.92	244	365771	30.80	ng	0.00
Target Compounds				Qvalue		
9) Benzaldehyde	6.43	77	716	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.36	70	32134	4.977 ng	#	74
25) Isophorone	7.36	82	249271	16.124 ng	#	64
48) Acenaphthylene	9.70	152	63362	3.124 ng		98
49) Dimethylphthalate	9.56	163	41617	2.709 ng		99
50) 2,6-Dinitrotoluene	9.84	165	25564	8.993 ng	#	26
56) 2,4-Dinitrotoluene	9.84	165	25565	6.857 ng	#	23
64) 4,6-Dinitro-2-methylphenol	10.63	198	213	7.470 ng	#	1
70) Phenanthrene	11.35	178	135167	8.083 ng		98
71) Anthracene	11.40	178	48261	2.839 ng		98
74) Fluoranthene	12.54	202	376276	21.537 ng		97
76) Benzidine	12.68	184	253	Below Cal	#	1
77) Pyrene	12.77	202	379531	18.909 ng		98
80) Benzo(a)anthracene	13.96	228	263260	16.274 ng		94
82) Chrysene	14.00	228	242414	14.589 ng		98
85) Indeno(1,2,3-cd)pyrene	16.89	276	161649	11.452 ng	#	92
87) Benzo(b)fluoranthene	15.02	252	503499	28.122 ng	#	95
88) Benzo(k)fluoranthene	15.02	252	503499	29.788 ng		98
89) Benzo(a)pyrene	15.38	252	267112	16.674 ng		97
90) Dibenzo(a,h)anthracene	16.90	278	41204	3.132 ng	#	90
91) Benzo(g,h,i)perylene	17.33	276	147358	11.560 ng		97

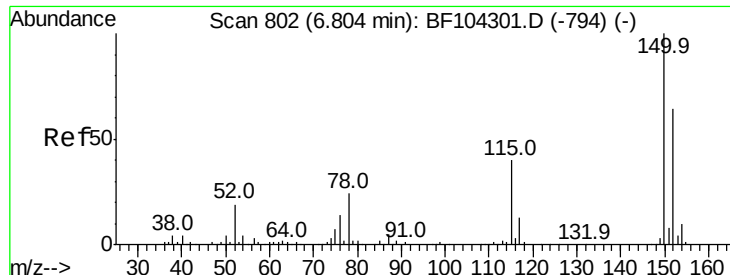
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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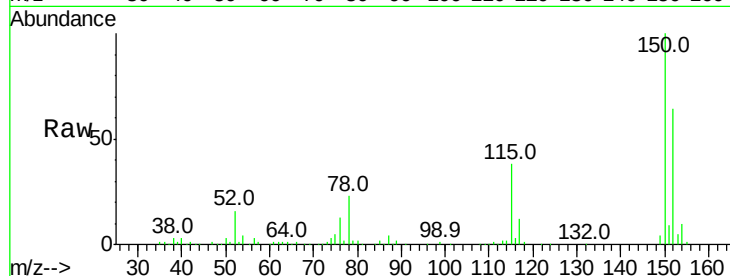


#1

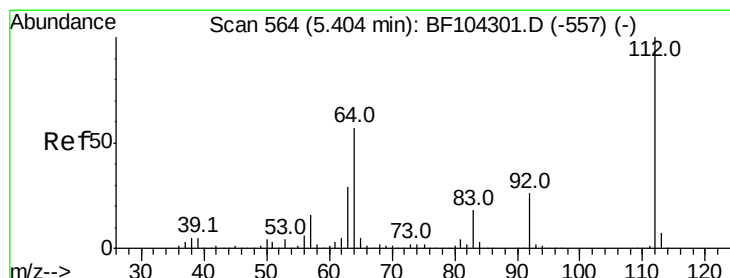
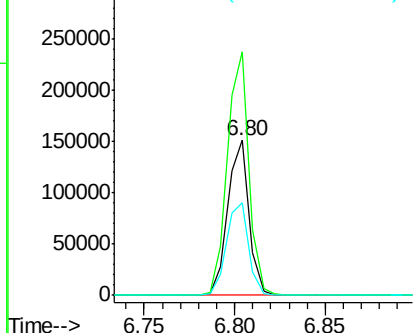
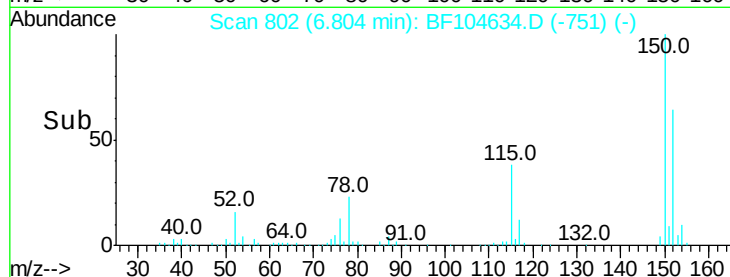
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 122961
Ion Ratio Lower Upper
152 100
150 157.4 124.6 186.8
115 60.0 50.1 75.1



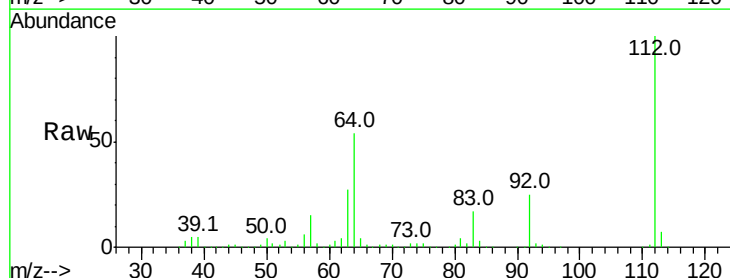
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



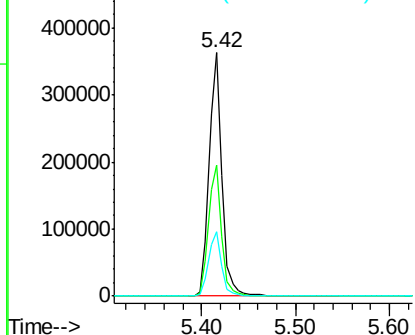
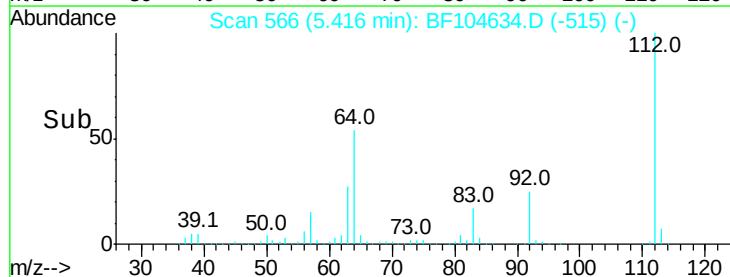
#5

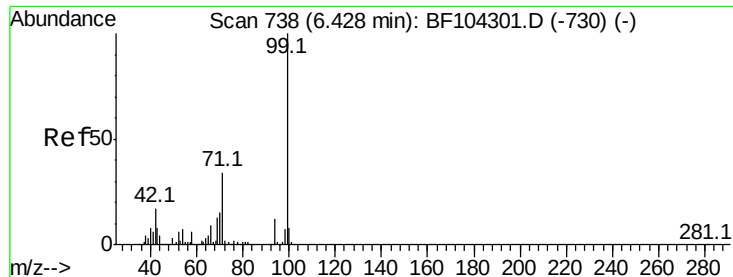
2-Fluorophenol
Concen: 43.725 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Tgt Ion:112 Resp: 351623
Ion Ratio Lower Upper
112 100
64 53.7 47.9 71.9
63 26.7 23.7 35.5



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





#7

Phenol-d6

Concen: 42.321 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Instrument :

BNA_F

ClientSampleId :

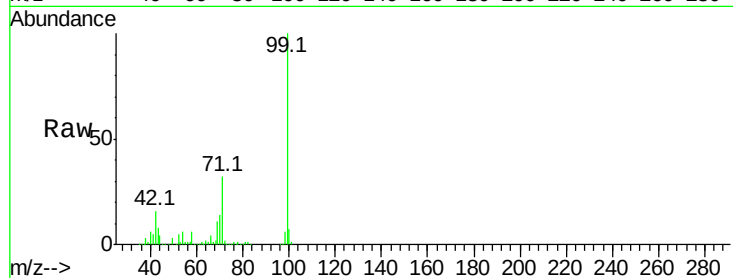
Tot Ion: 99 Resp: 418152

Ion Ratio Lower Upper

99 100

42 16.0 14.5 21.7

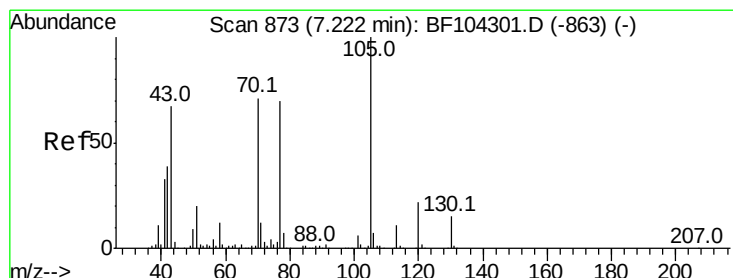
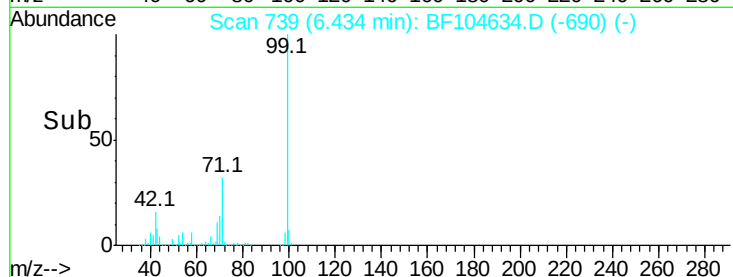
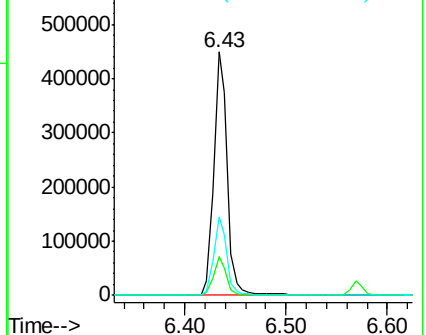
71 32.3 25.4 38.0



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: 4.977 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.14 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Tgt Ion: 70 Resp: 32134

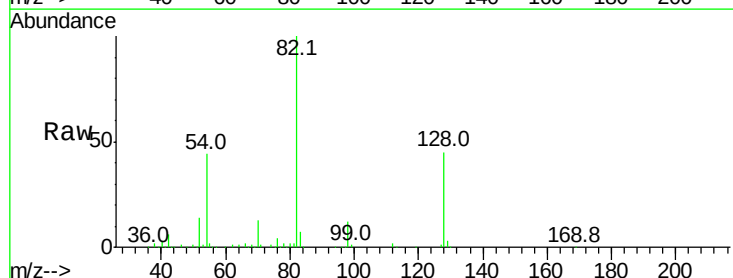
Ion Ratio Lower Upper

70 100

42 43.8 47.5 71.3#

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

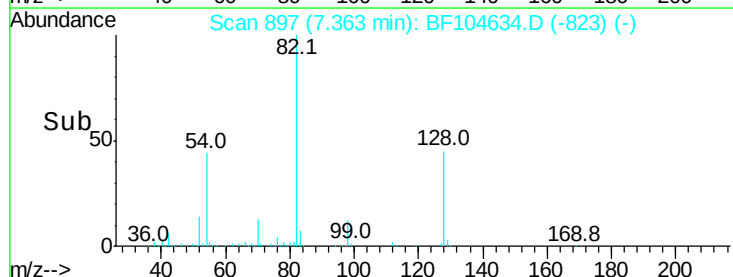
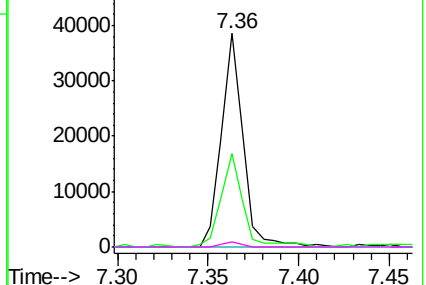


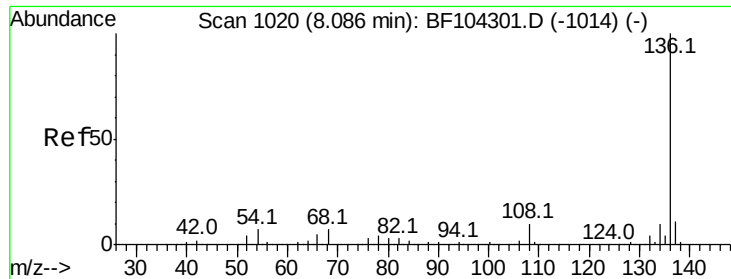
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

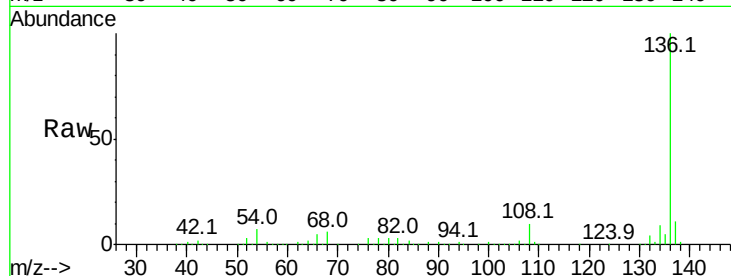




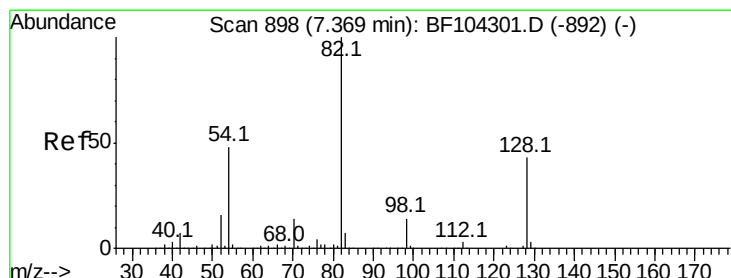
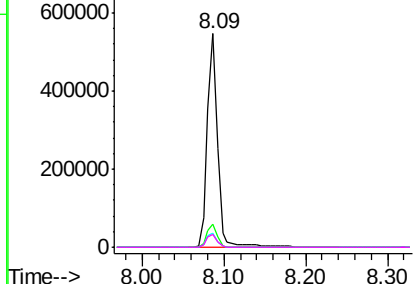
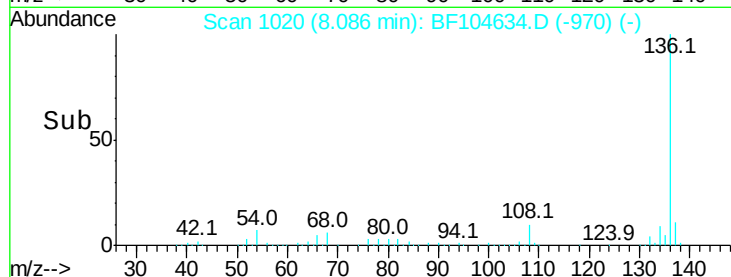
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	477381
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	6.7	6.6	9.8
68	6.2	5.0	7.4

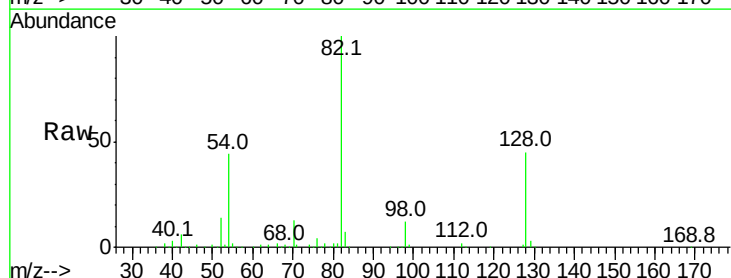


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

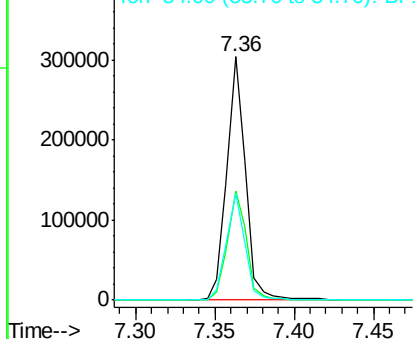
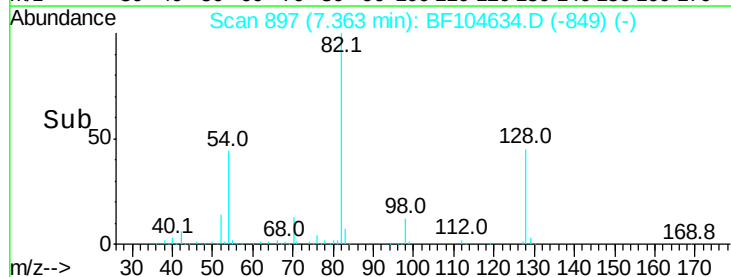


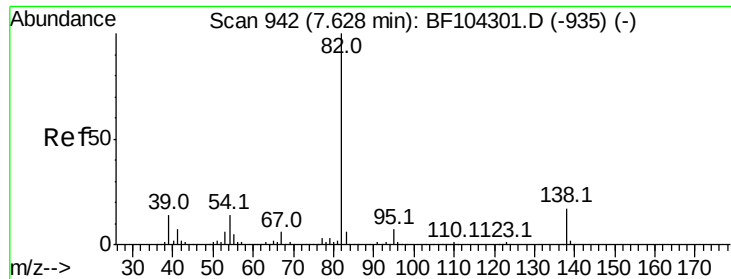
#23
Nitrobenzene-d5
Concen: 34.097 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.02 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Tgt Ion:	82	Resp:	249277
Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.1	54.1
54	43.9	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: 16.124 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.27 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Instrument :

BNA_F

ClientSampled :

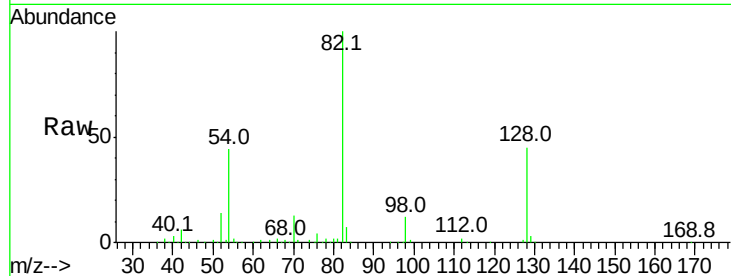
Tot Ion: 82 Resp: 249271

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

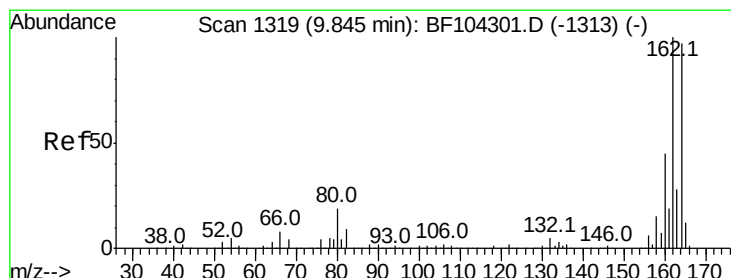
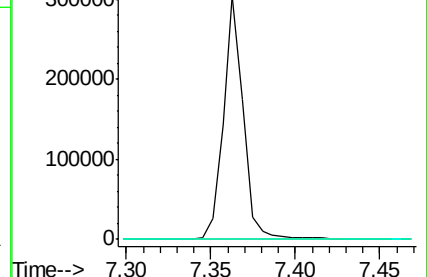
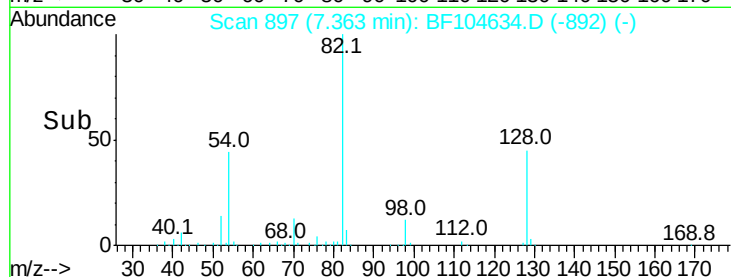
138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

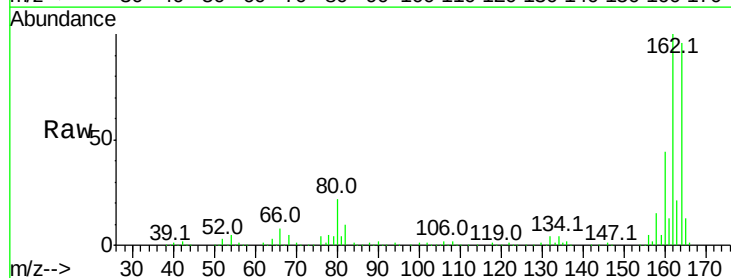
Tgt Ion:164 Resp: 194803

Ion Ratio Lower Upper

164 100

162 103.7 86.1 129.1

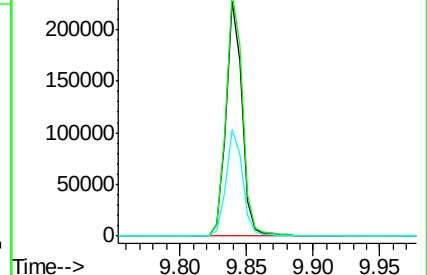
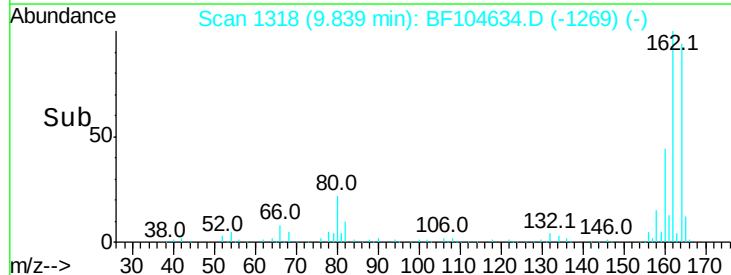
160 45.4 38.3 57.5

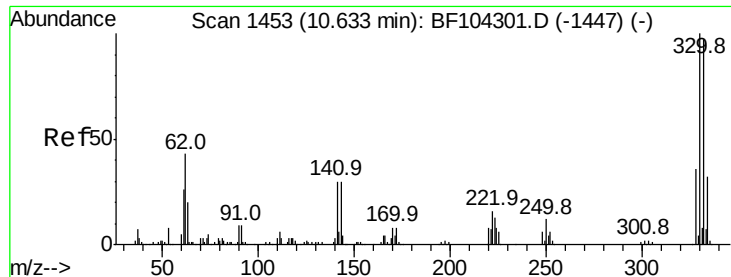


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

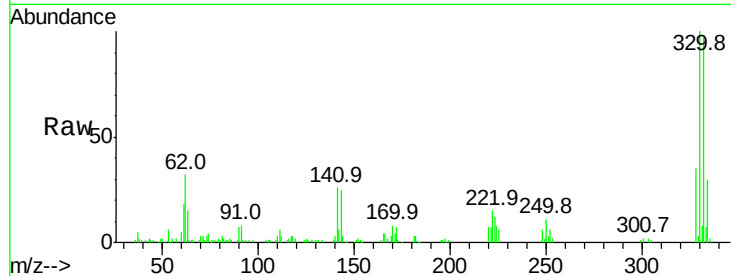




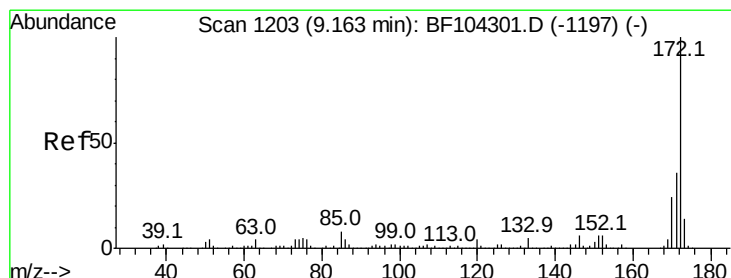
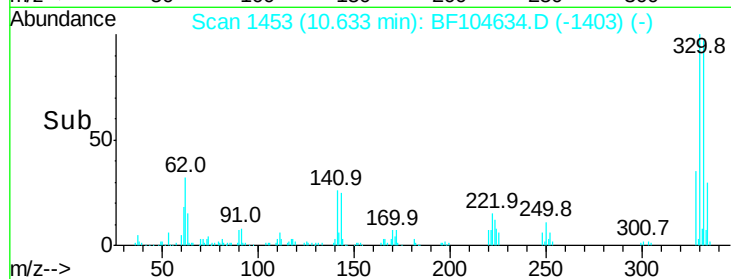
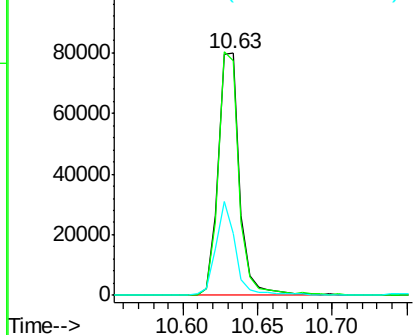
#41
 2,4,6-Tribromophenol
 Concen: 40.276 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104634.D
 Acq: 19 Apr 2018 18:05

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.0	115.6
141	35.2	29.9	44.9

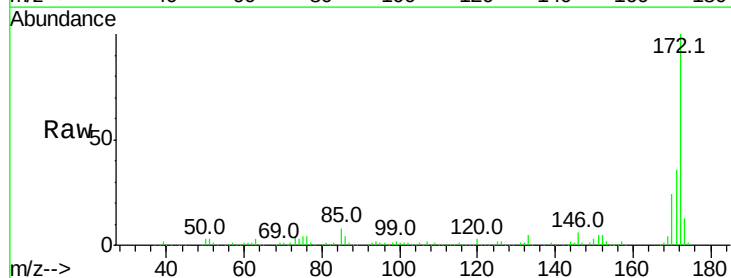


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

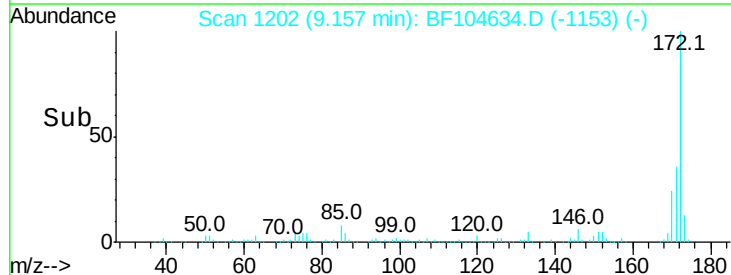
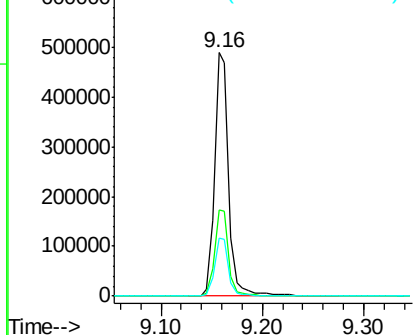


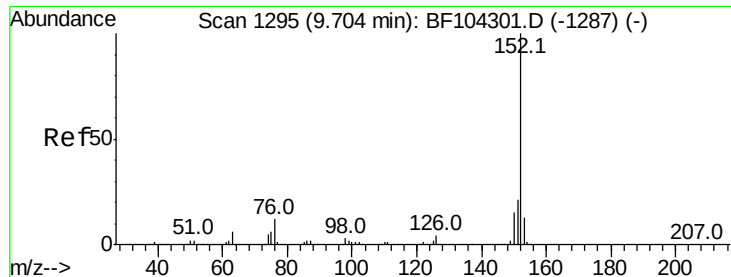
#44
 2-Fluorobiphenyl
 Concen: 38.168 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104634.D
 Acq: 19 Apr 2018 18:05

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.7	44.5
170	23.6	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





#48

Acenaphthylene

Concen: 3.124 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.01 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Instrument :

BNA_F

ClientSampleId :

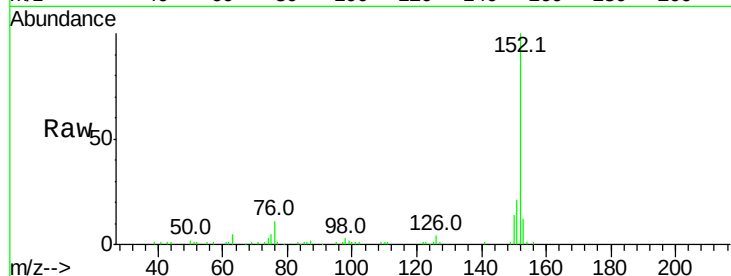
Tot Ion:152 Resp: 63362

Ion Ratio Lower Upper

152 100

151 21.2 16.3 24.5

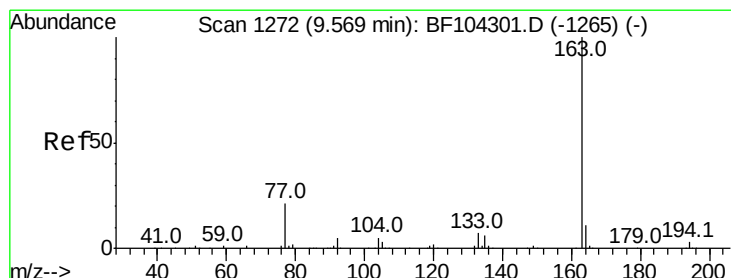
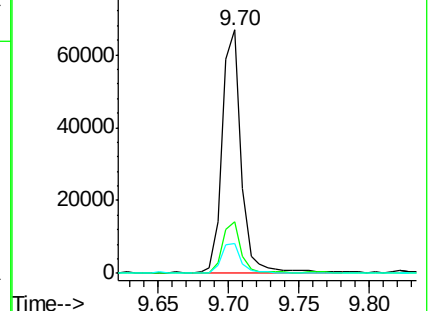
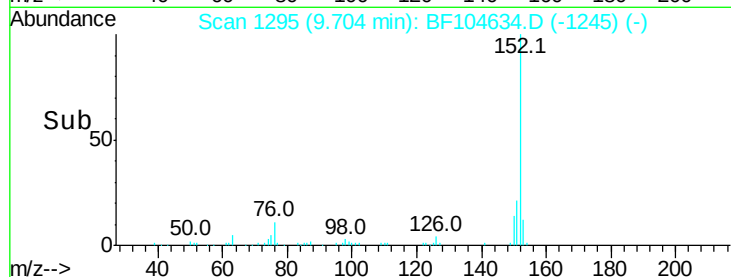
153 12.5 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.709 ng

RT: 9.56 min Scan# 1270

Delta R.T. -0.02 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

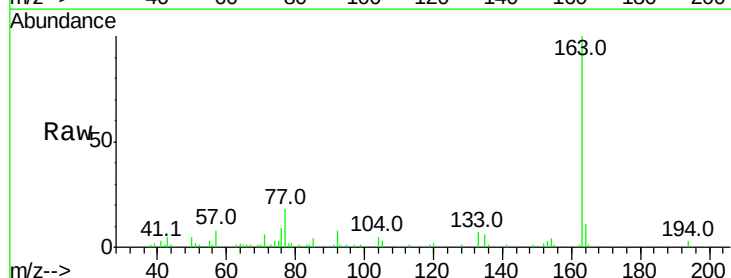
Tgt Ion:163 Resp: 41617

Ion Ratio Lower Upper

163 100

194 3.5 2.7 4.1

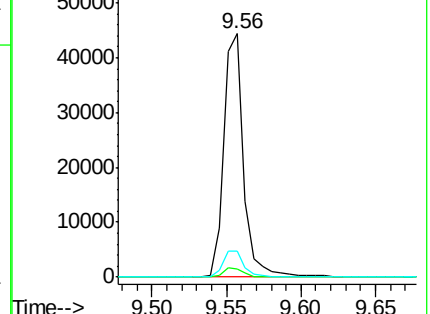
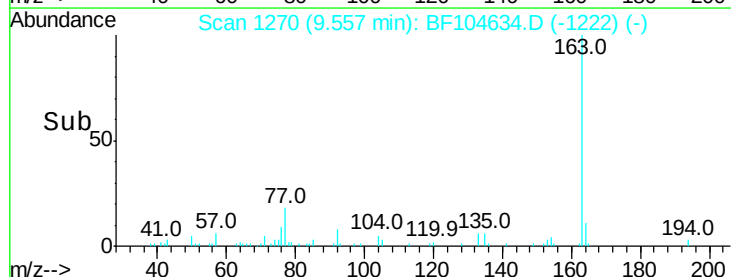
164 10.7 8.2 12.2

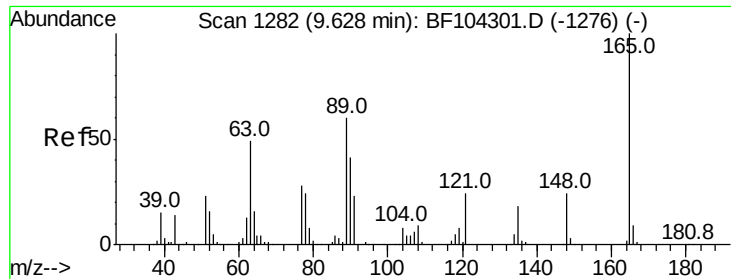


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#50

2,6-Dinitrotoluene

Concen: 8.993 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.20 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Instrument :

BNA_F

ClientSampleId :

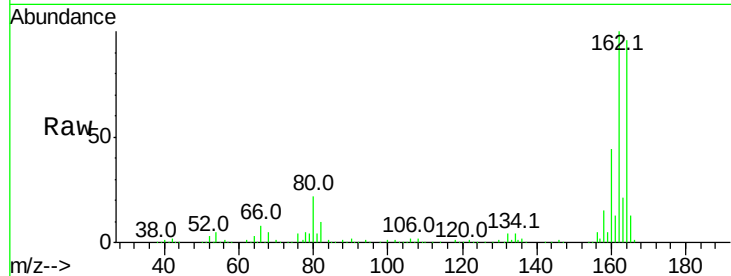
Tot Ion:165 Resp: 25564

Ion Ratio Lower Upper

165 100

63 1.4 44.7 67.1#

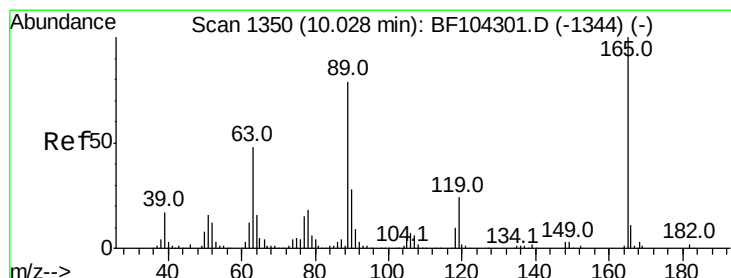
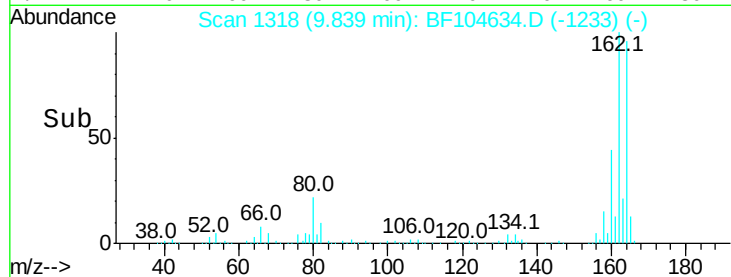
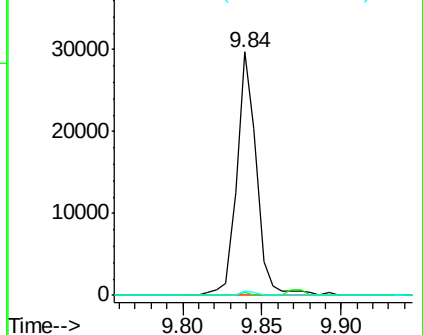
89 1.7 44.0 66.0#



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



#56

2,4-Dinitrotoluene

Concen: 6.857 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.21 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Tgt Ion:165 Resp: 25565

Ion Ratio Lower Upper

165 100

63 1.4 36.4 54.6#

89 1.7 57.8 86.6#

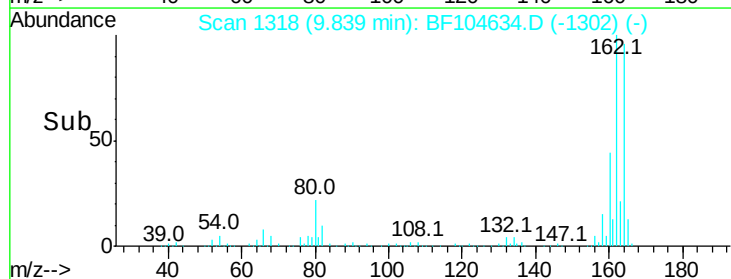
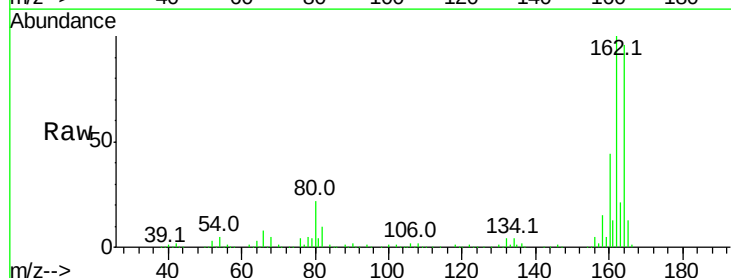
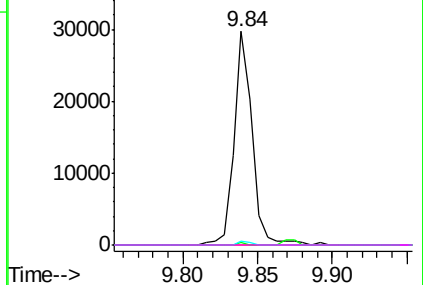
182 0.0 1.6 2.4#

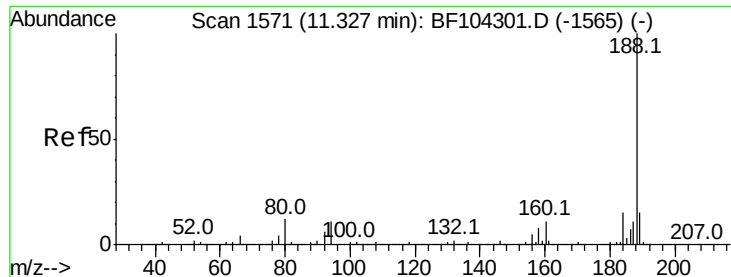
Abundance Ion 165.00 (164.70 to 165.70): E

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

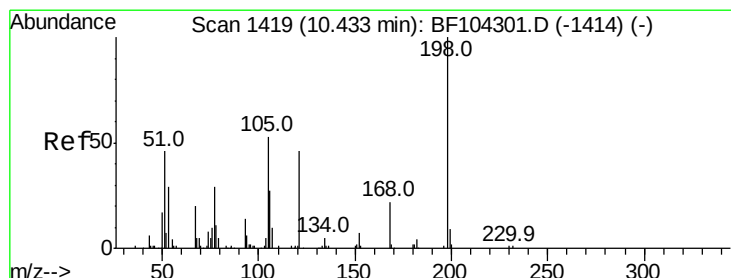
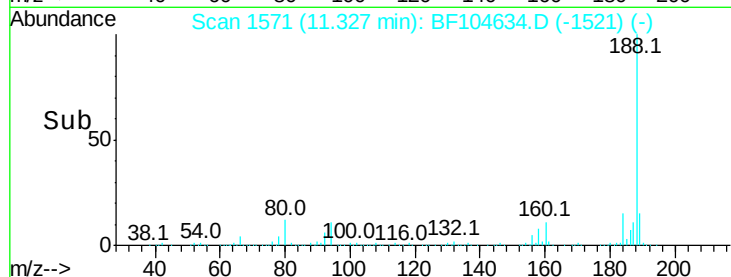
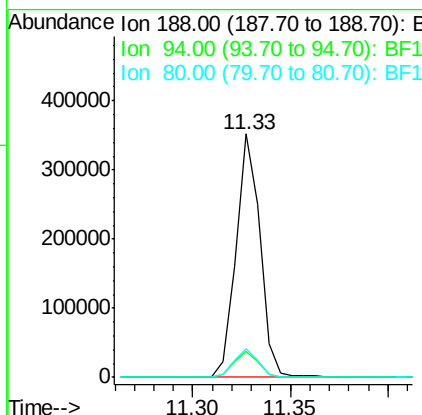
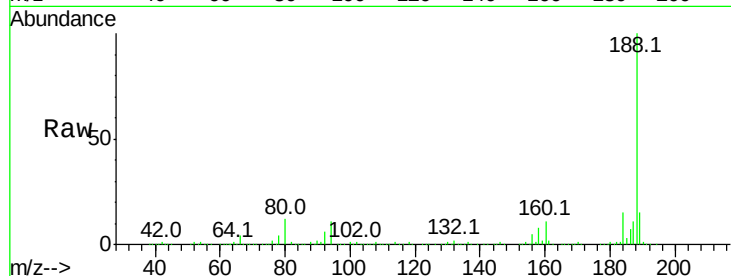




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

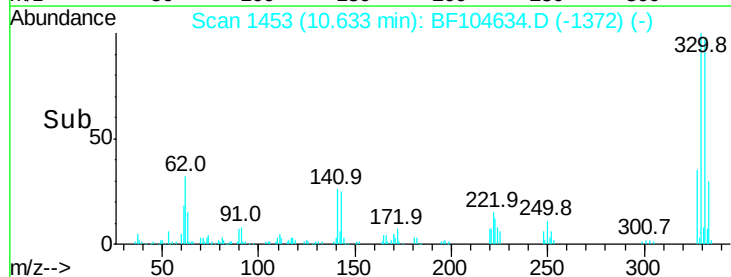
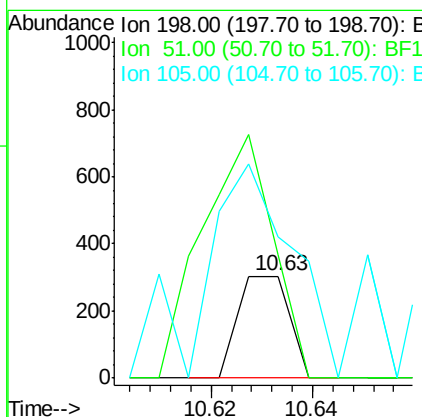
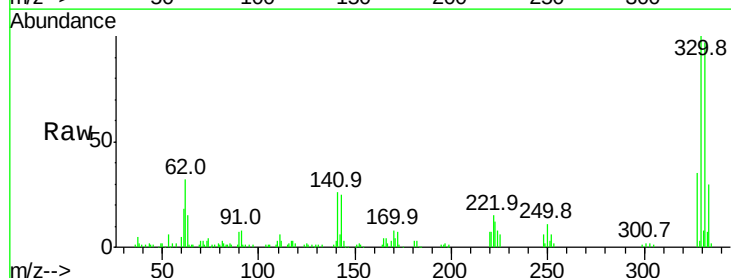
Instrument :
BNA_F
ClientSampleId :

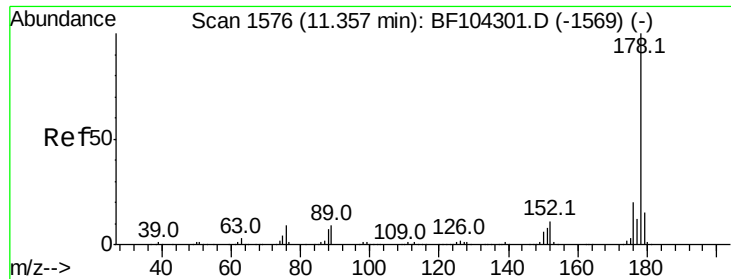
Tot Ion:188 Resp: 300274
Ion Ratio Lower Upper
188 100
94 10.9 8.5 12.7
80 11.9 9.2 13.8



#64
4,6-Dinitro-2-methylphenol
Concen: 7.470 ng
RT: 10.63 min Scan# 1453
Delta R.T. 0.18 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Tgt Ion:198 Resp: 213
Ion Ratio Lower Upper
198 100
51 121.5 37.7 77.7#
105 138.6 36.3 76.3#

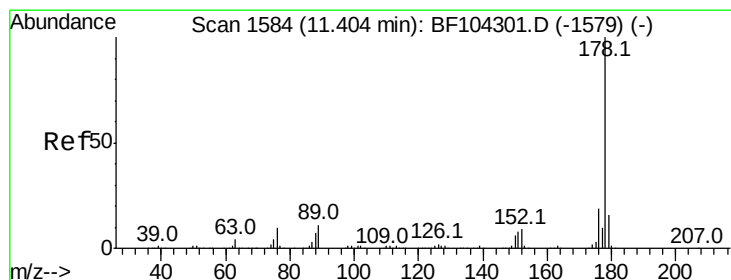
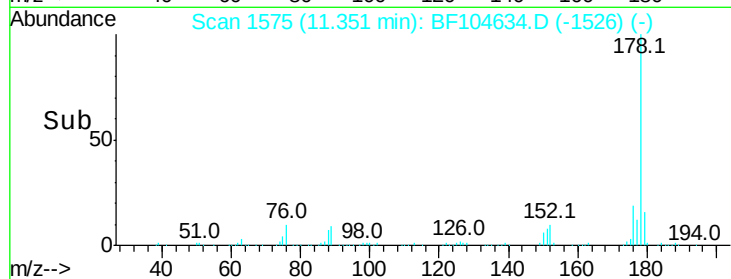
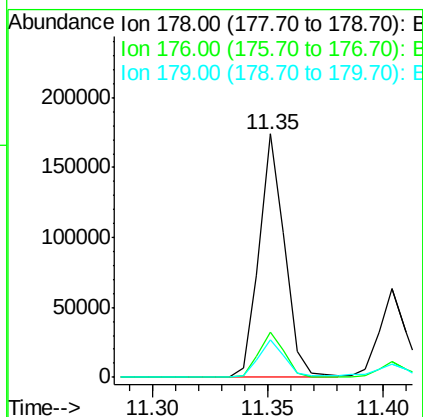
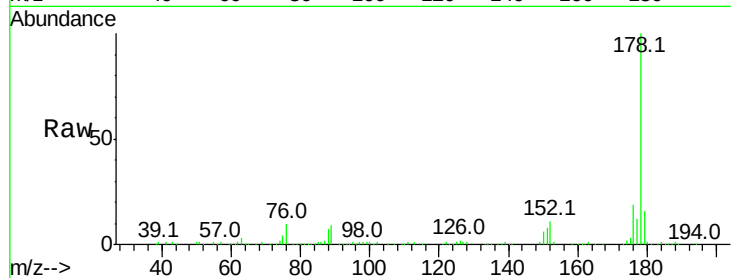




#70
Phenanthrene
Concen: 8.083 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

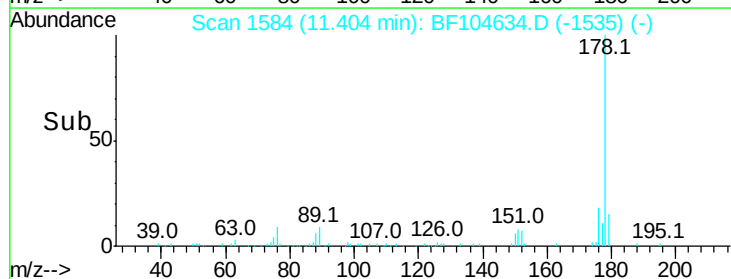
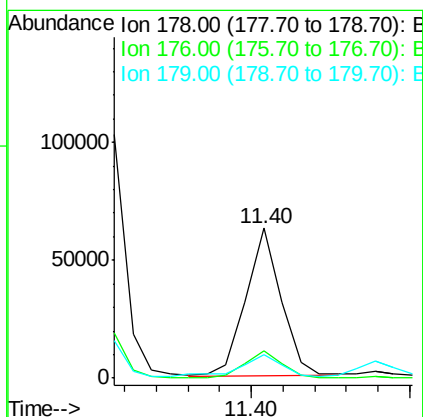
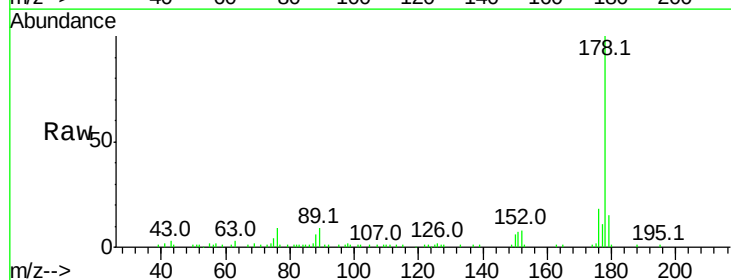
Instrument :
BNA_F
ClientSampleId :

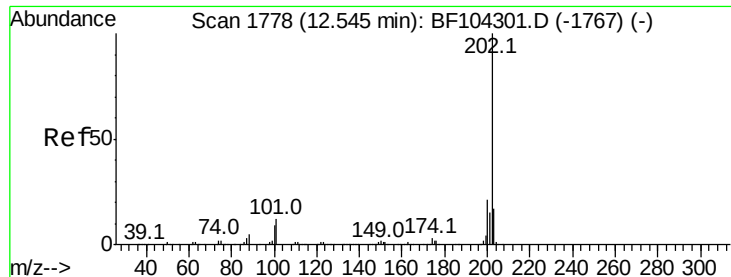
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	15.7	13.0	19.6



#71
Anthracene
Concen: 2.839 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	15.4	12.6	19.0





#74

Fluoranthene

Concen: 21.537 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Instrument :

BNA_F

ClientSampleId :

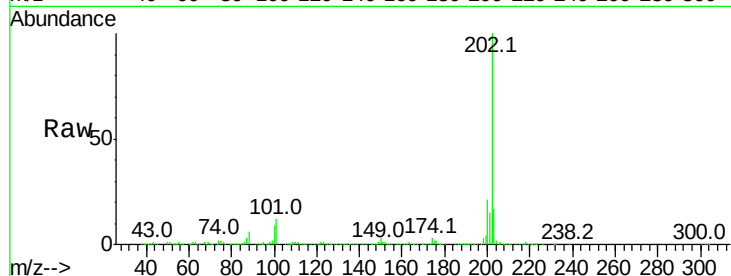
Tot Ion:202 Resp: 376276

Ion Ratio Lower Upper

202 100

101 12.4 0.0 34.1

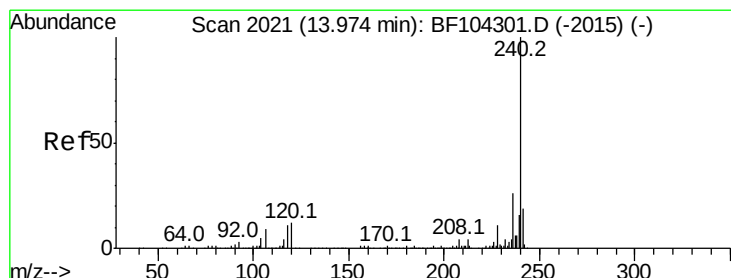
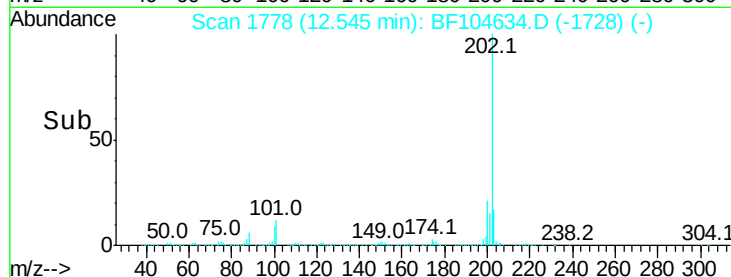
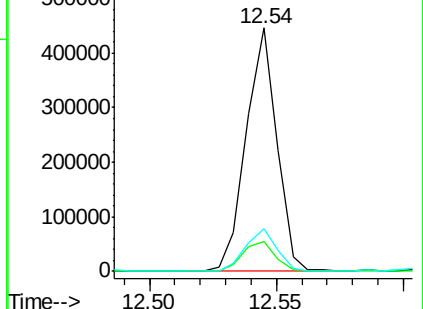
203 17.3 0.0 38.1



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: 13.97 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

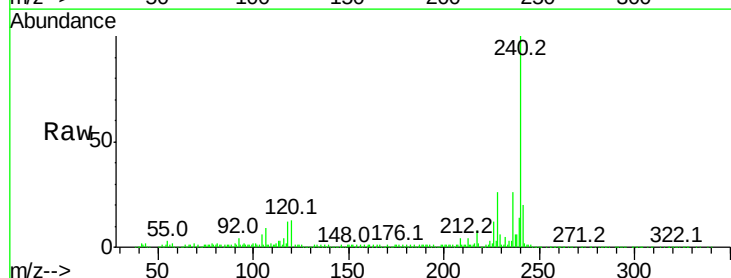
Tgt Ion:240 Resp: 270777

Ion Ratio Lower Upper

240 100

120 13.3 9.5 14.3

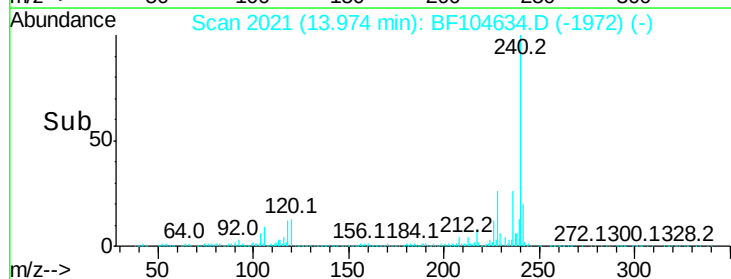
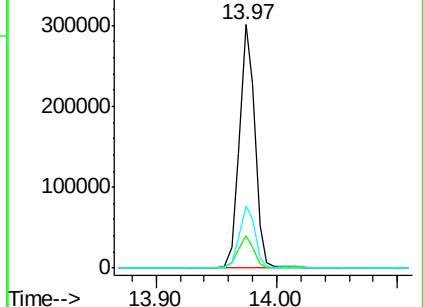
236 25.7 20.7 31.1

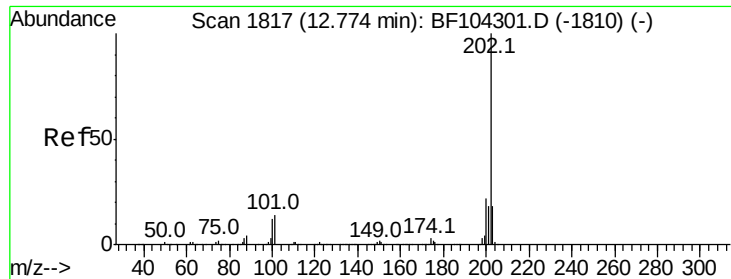


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

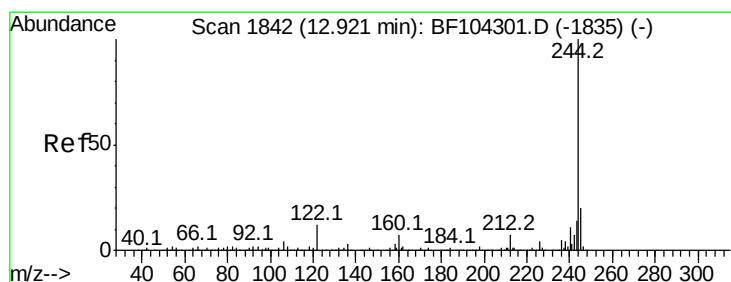
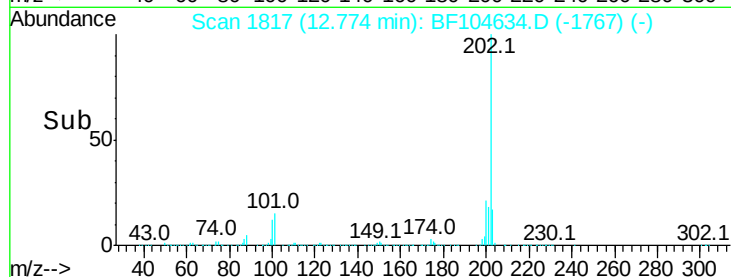
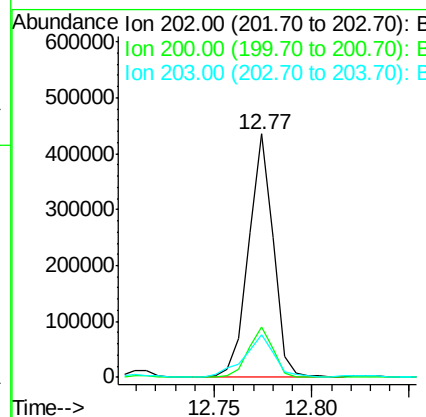
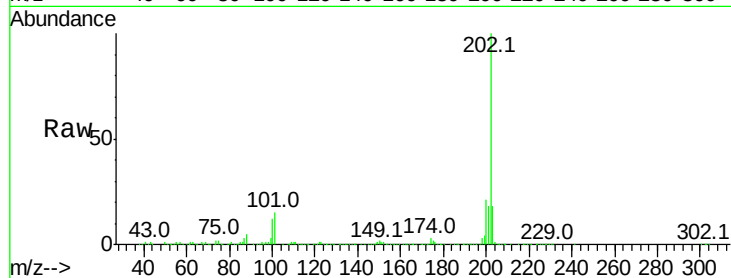




#77
Pvrene
Concen: 18.909 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

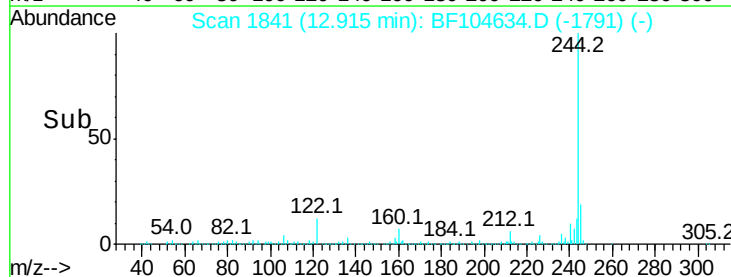
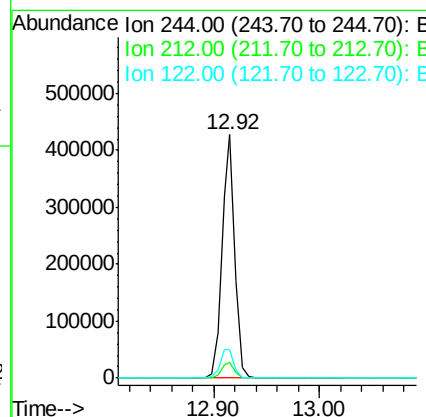
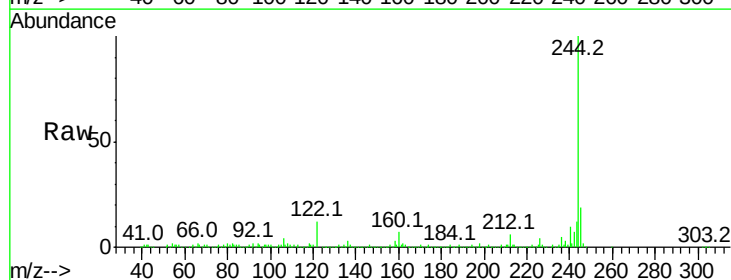
Instrument :
BNA_F
ClientSampled :

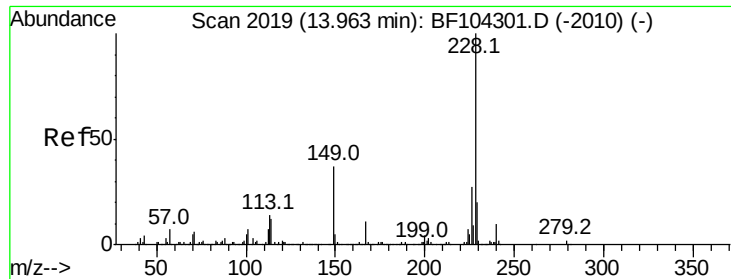
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.4	26.2
203	17.6	14.3	21.5



#78
Terphenyl-d14
Concen: 30.796 ng
RT: 12.92 min Scan# 1841
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	11.8	11.0	16.4

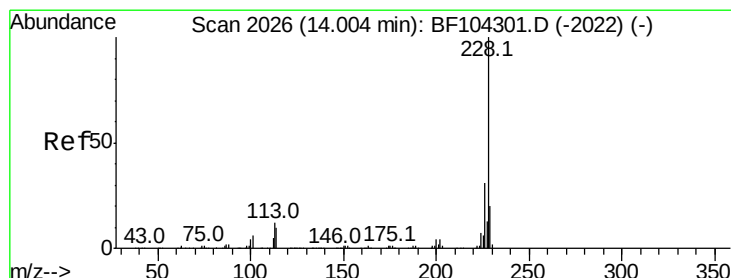
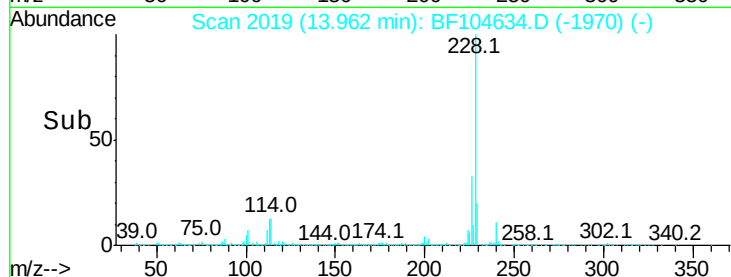
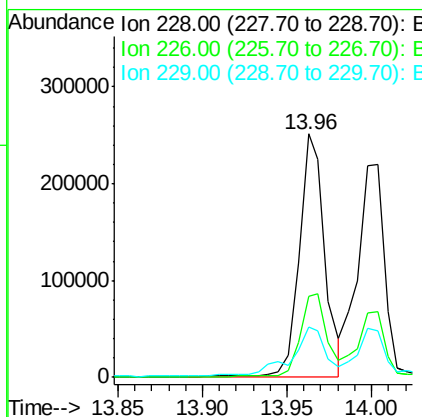
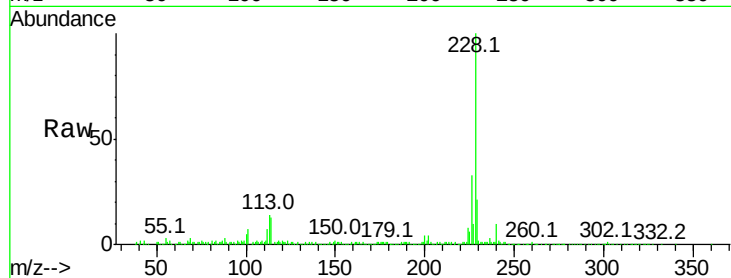




#80
Benzo(a)anthracene
Concen: 16.274 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

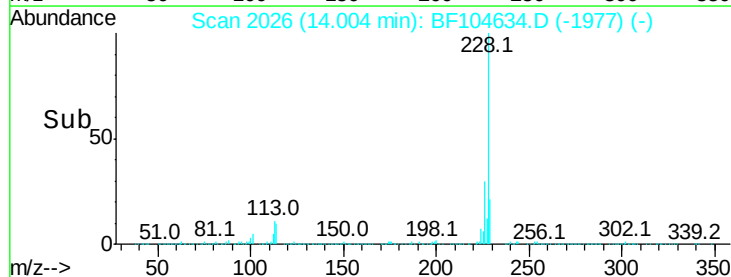
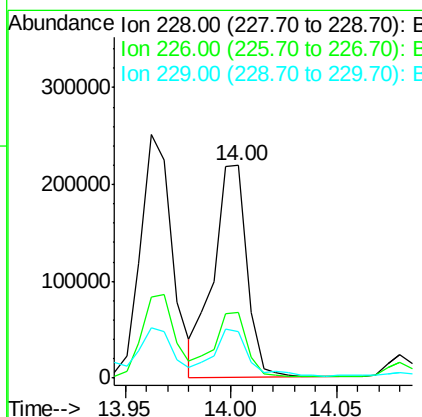
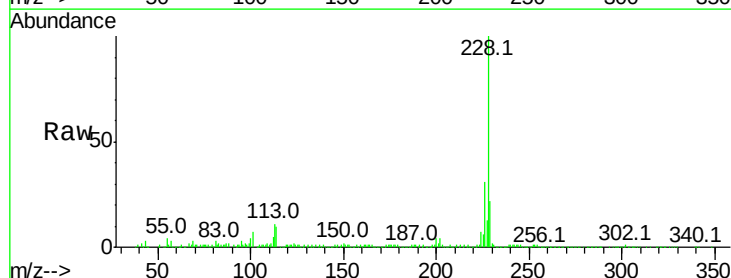
Instrument :
BNA_F
ClientSampleId :

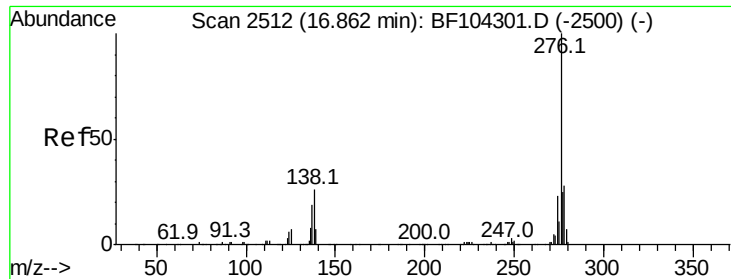
Tot Ion:228 Resp: 263260
Ion Ratio Lower Upper
228 100
226 33.1 22.6 33.8
229 20.7 15.8 23.6



#82
Chrysene
Concen: 14.589 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Tgt Ion:228 Resp: 242414
Ion Ratio Lower Upper
228 100
226 30.8 25.0 37.6
229 22.0 16.2 24.4

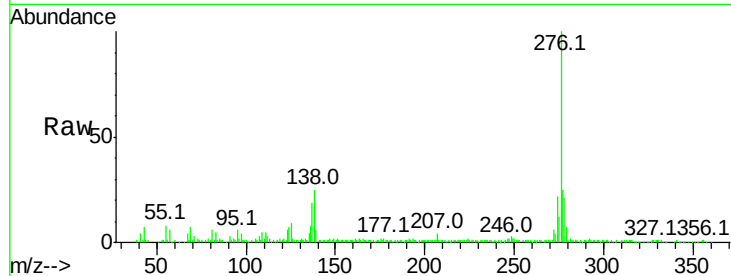




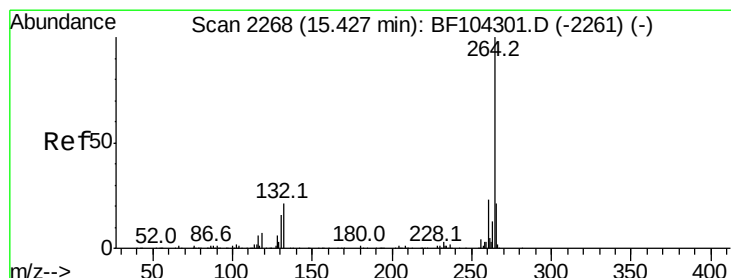
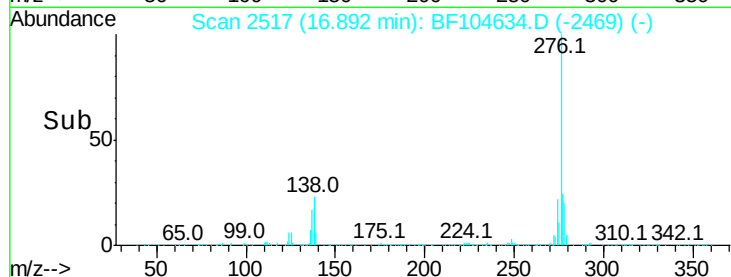
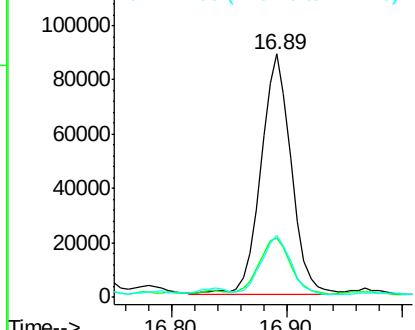
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.452 ng
 RT: 16.89 min Scan# 2517
 Delta R.T. -0.02 min
 Lab File: BF104634.D
 Acq: 19 Apr 2018 18:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.4	25.0	37.6#
277	24.3	20.1	30.1

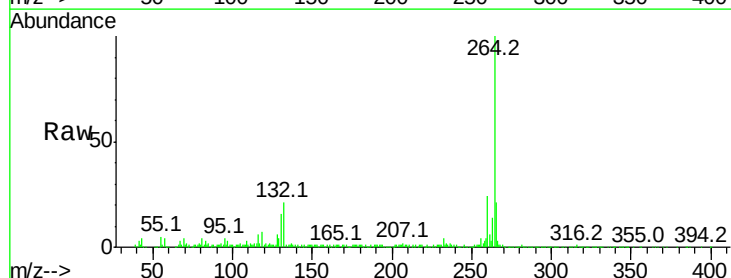


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

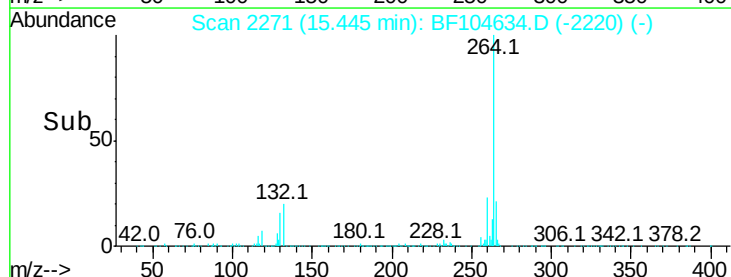
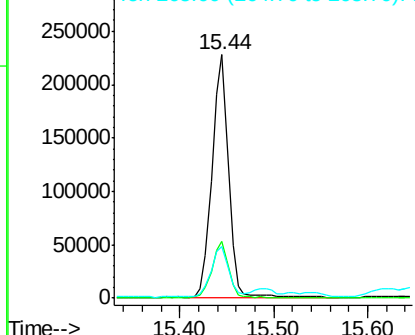


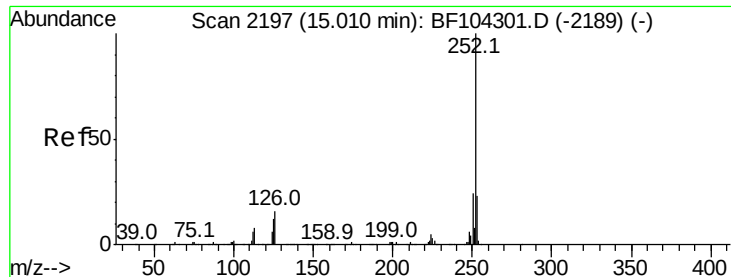
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.44 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: BF104634.D
 Acq: 19 Apr 2018 18:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.3	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 28.122 ng

RT: 15.02 min Scan# 2198

Delta R.T. -0.01 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Instrument :

BNA_F

ClientSampleId :

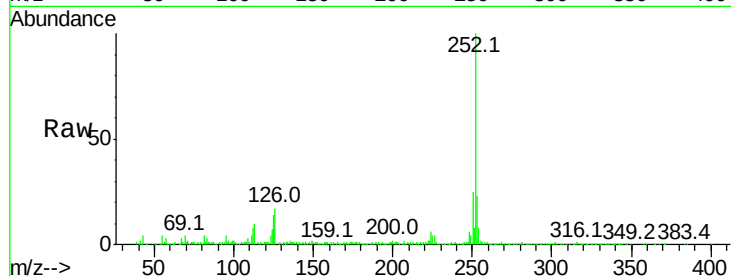
Tot Ion:252 Resp: 503499

Ion Ratio Lower Upper

252 100

253 22.8 17.0 25.6

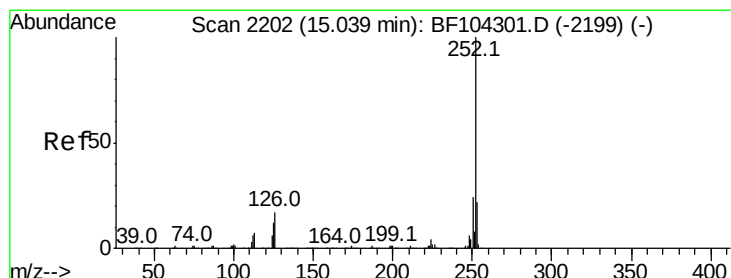
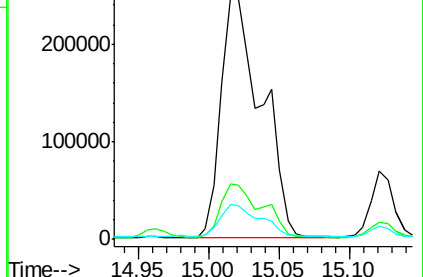
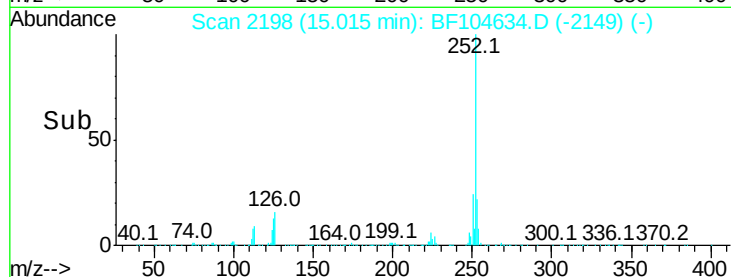
125 14.5 9.0 13.6#



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: 29.788 ng

RT: 15.02 min Scan# 2198

Delta R.T. -0.04 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

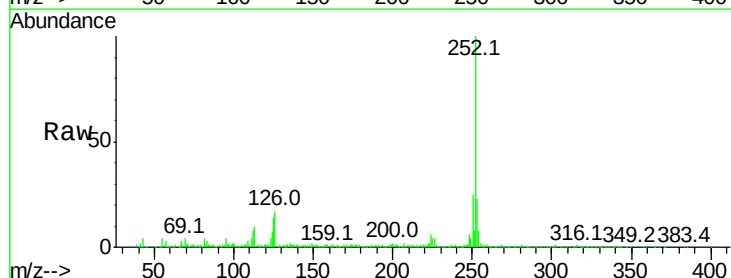
Tgt Ion:252 Resp: 503499

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

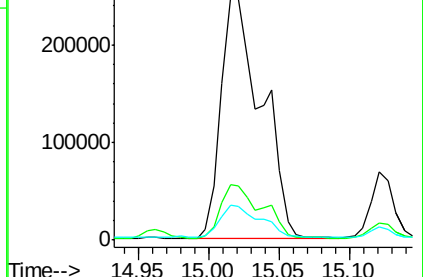
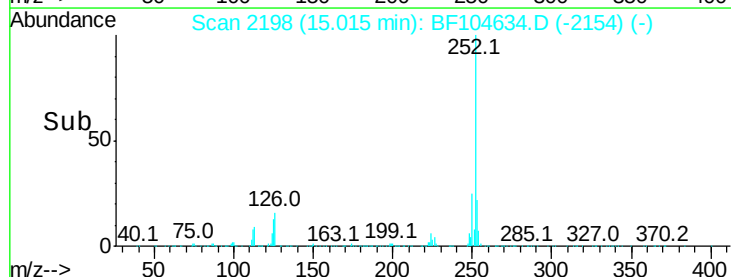
125 14.5 10.2 15.2

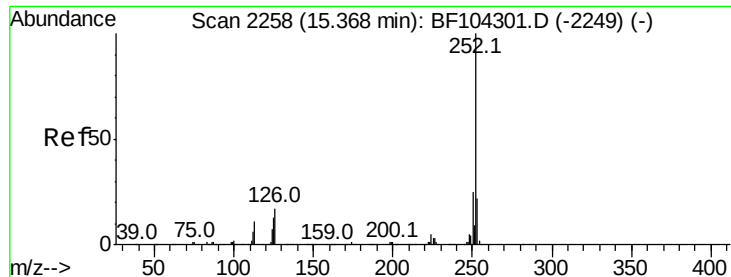


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

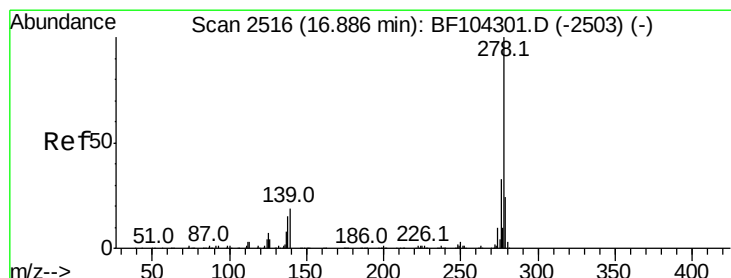
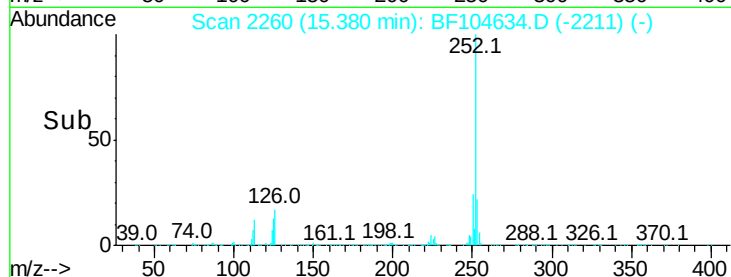
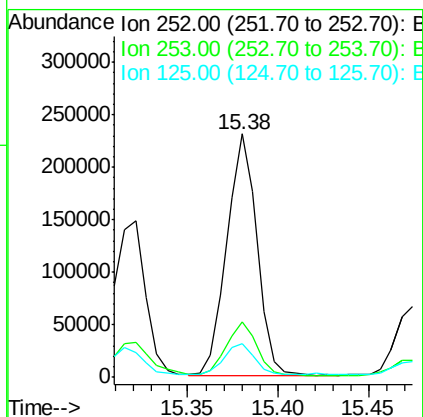
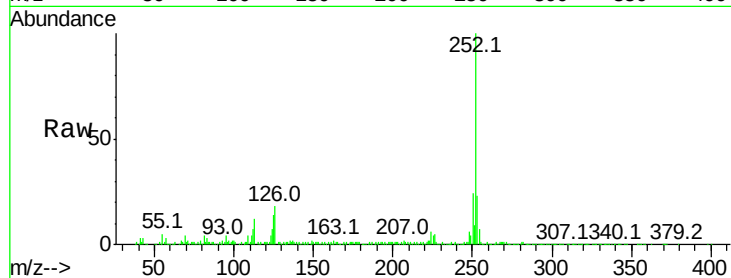




#89
Benzo(a)pyrene
Concen: 16.674 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

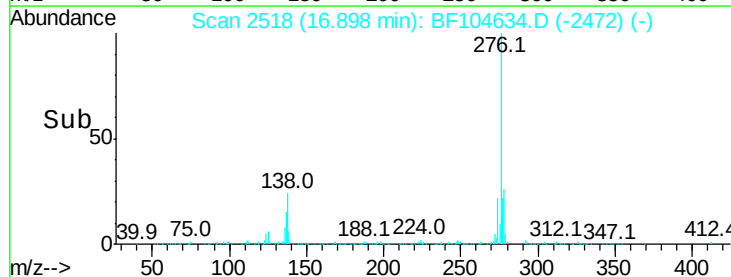
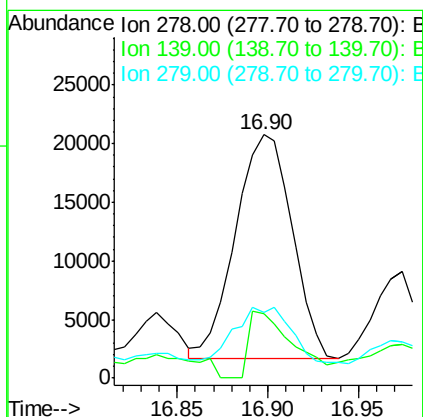
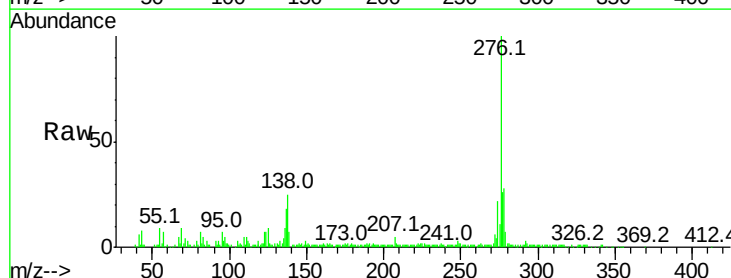
Instrument :
BNA_F
ClientSampleId :

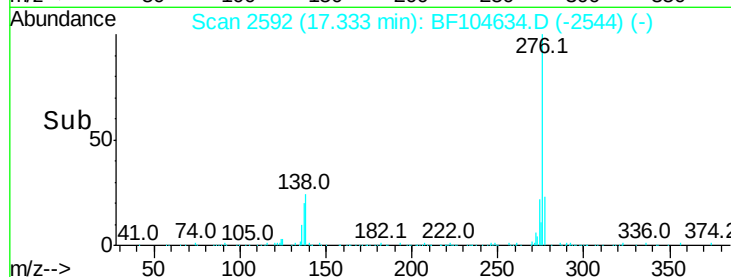
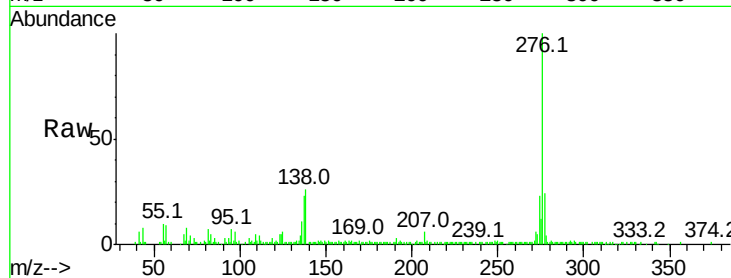
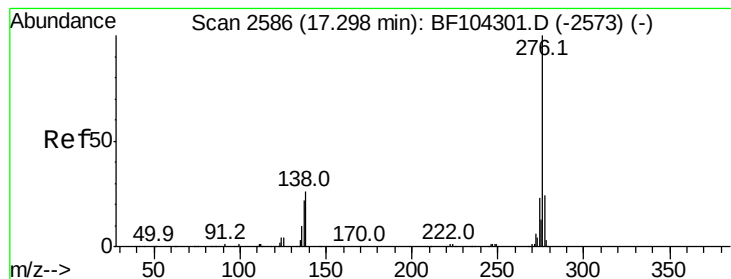
Tot Ion:252 Resp: 267112
Ion Ratio Lower Upper
252 100
253 22.7 17.1 25.7
125 13.9 9.8 14.6



#90
Dibenzo(a,h)anthracene
Concen: 3.132 ng
RT: 16.90 min Scan# 2518
Delta R.T. -0.03 min
Lab File: BF104634.D
Acq: 19 Apr 2018 18:05

Tgt Ion:278 Resp: 41204
Ion Ratio Lower Upper
278 100
139 26.5 15.9 23.9#
279 26.8 19.0 28.4





#91

Benzo(a,h,i)perylene

Concen: 11.560 ng

RT: 17.33 min Scan# 2592

Delta R.T. -0.02 min

Lab File: BF104634.D

Acq: 19 Apr 2018 18:05

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 147358

Ion Ratio Lower Upper

276 100

277 24.5 17.9 26.9

138 26.4 21.8 32.8

