

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042718\
 Data File : BF104906.D
 Acq On : 28 Apr 2018 3:29
 Operator : JU/SJ
 Sample : J2520-15DL 100X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 28 04:58:55 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 27 17:16:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	83494	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	336757	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	138266	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	220786	20.00	ng	0.00
75) Chrysene-d12	13.98	240	199153	20.00	ng	0.00
86) Perylene-d12	15.44	264	157511	20.00	ng	0.00

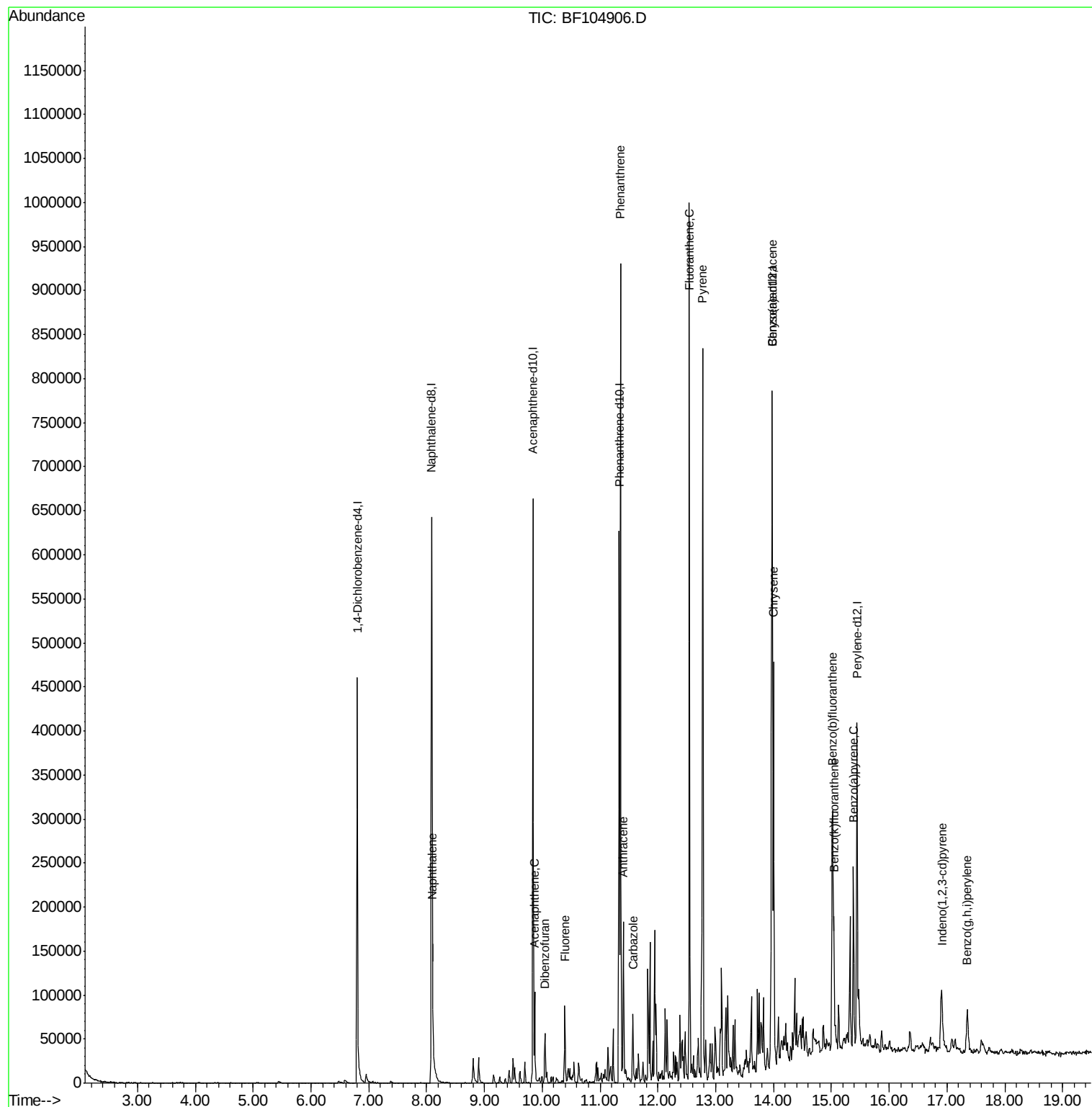
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	2450	0.45	ng	0.03
7) Phenol-d6	6.48	99	2766	0.41	ng	0.04
23) Nitrobenzene-d5	7.39	82	2064	0.40	ng	0.02
41) 2,4,6-Tribromophenol	10.64	330	745	0.52	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	5970	0.68	ng	0.00
78) Terphenyl-d14	12.92	244	5664	0.65	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.10	128	66166	3.946	ng	99
51) Acenaphthene	9.87	154	21856	2.489	ng	99
54) Dibenzofuran	10.05	168	27447	2.242	ng	# 96
57) Fluorene	10.39	166	32594	3.659	ng	96
70) Phenanthrene	11.36	178	373094	30.344	ng	98
71) Anthracene	11.40	178	81233	6.499	ng	97
72) Carbazole	11.57	167	34468	2.822	ng	99
74) Fluoranthene	12.55	202	381092	29.665	ng	98
77) Pyrene	12.77	202	351569	23.816	ng	98
80) Benzo(a)anthracene	13.97	228	166026	13.955	ng	99
82) Chrysene	14.00	228	166708	13.641	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	46555	4.485	ng	96
87) Benzo(b)fluoranthene	15.02	252	157435m	15.826	ng	
88) Benzo(k)fluoranthene	15.04	252	42818m	4.559	ng	
89) Benzo(a)pyrene	15.38	252	97802	10.988	ng	# 94
91) Benzo(g,h,i)perylene	17.35	276	42945	6.063	ng	98

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

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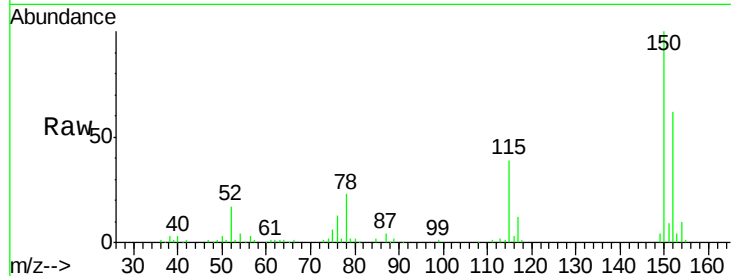




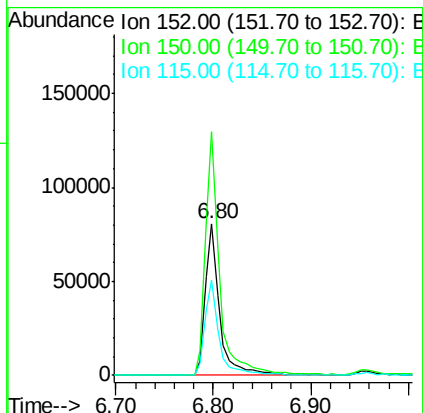
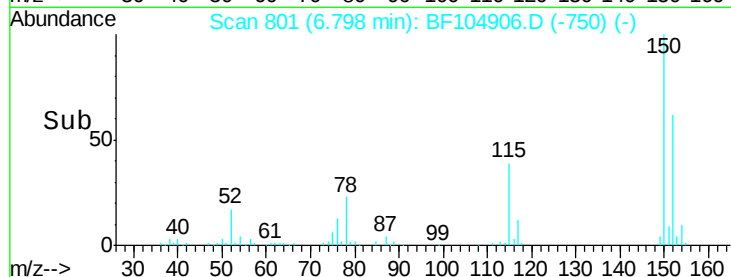
#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. 0.00 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tot Ion	152	Resp	83494
Ion	Ratio	Lower	Upper
152	100		
150	160.1	124.6	186.8
115	62.3	50.1	75.1



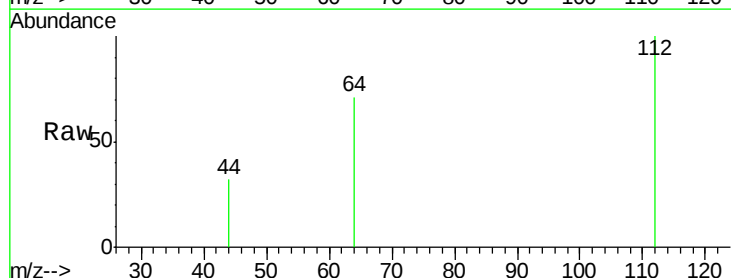
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



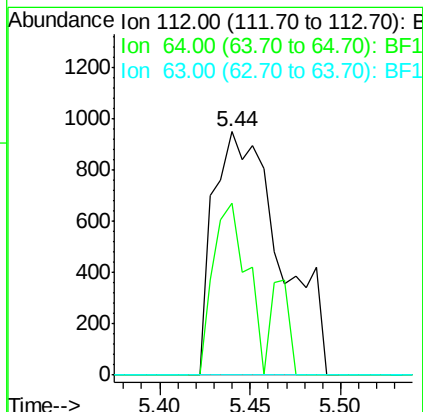
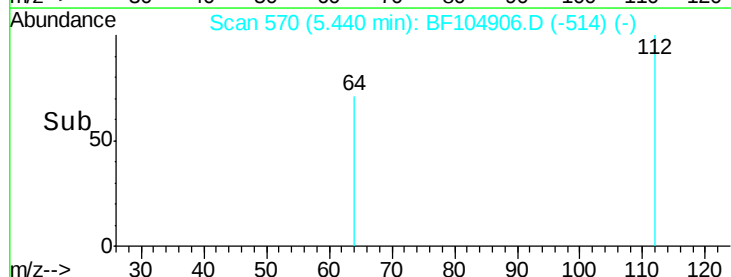
#5

2-Fluorophenol
Concen: 0.449 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.03 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tgt Ion	112	Resp	2450
Ion	Ratio	Lower	Upper
112	100		
64	70.8	47.9	71.9
63	0.0	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: 0.412 ng

RT: 6.48 min Scan# 747

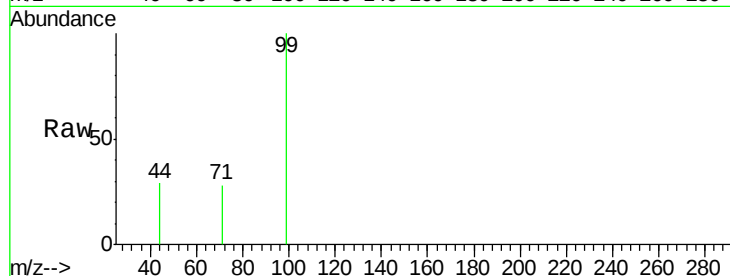
Delta R.T. 0.04 min

Lab File: BF104906.D

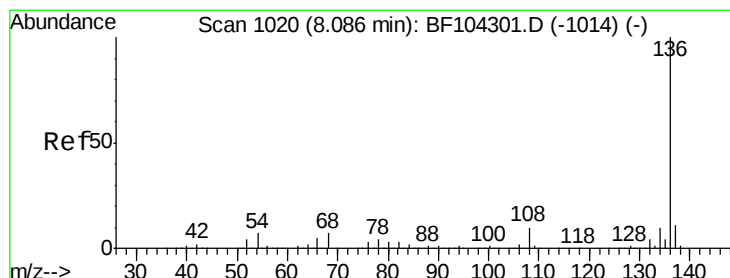
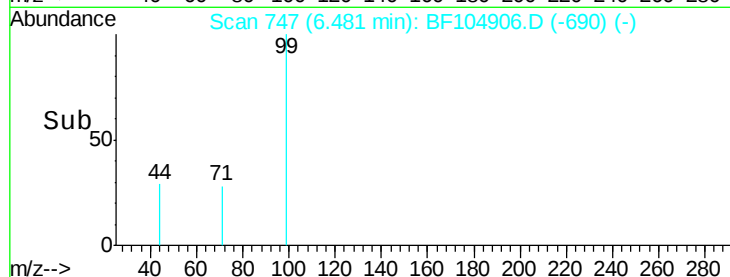
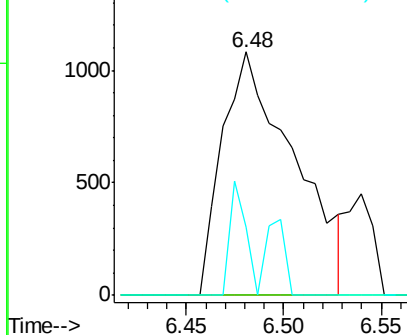
Acq: 28 Apr 2018 3:29

Tot Ion: 99 Resp: 2766

Ion	Ratio	Lower	Upper
99	100		
42	0.0	14.5	21.7#
71	27.8	25.4	38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

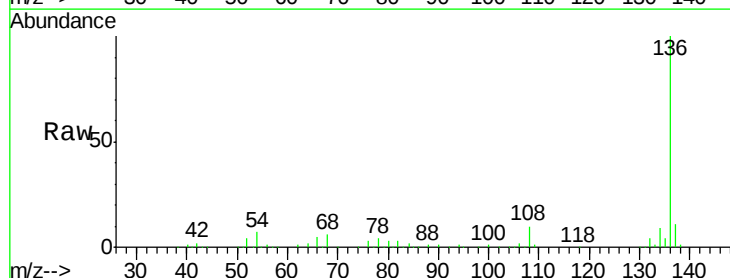
Delta R.T. -0.01 min

Lab File: BF104906.D

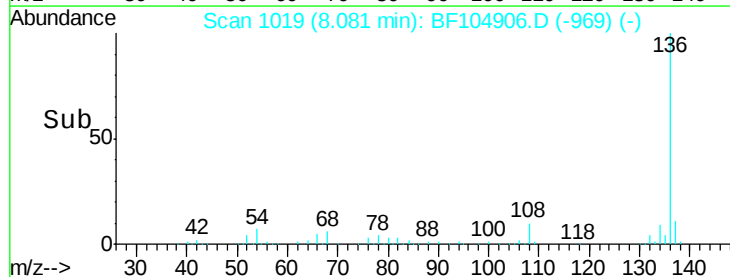
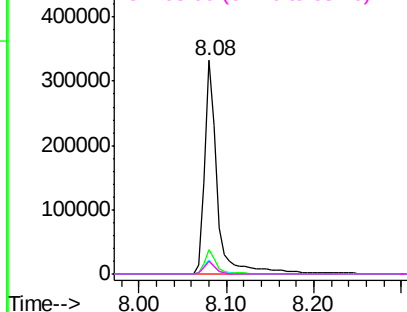
Acq: 28 Apr 2018 3:29

Tgt Ion: 136 Resp: 336757

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	6.7	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: 0.400 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.02 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

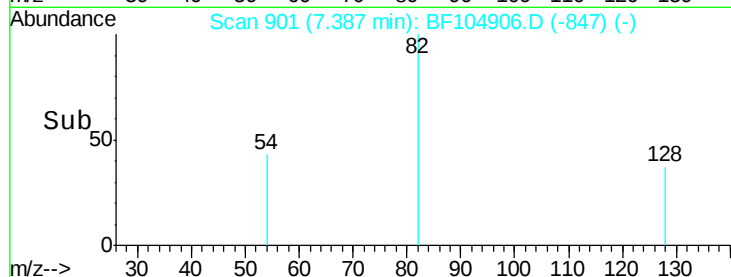
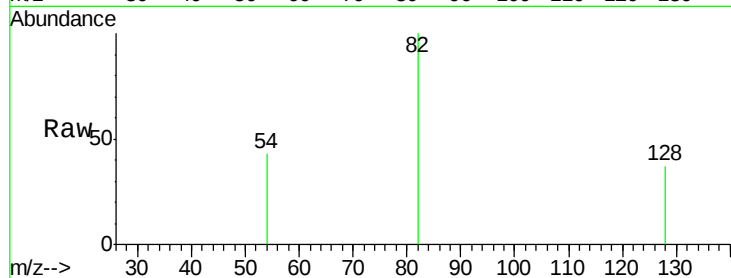
Tot Ion: 82 Resp: 2064

Ion Ratio Lower Upper

82 100

128 36.8 36.1 54.1

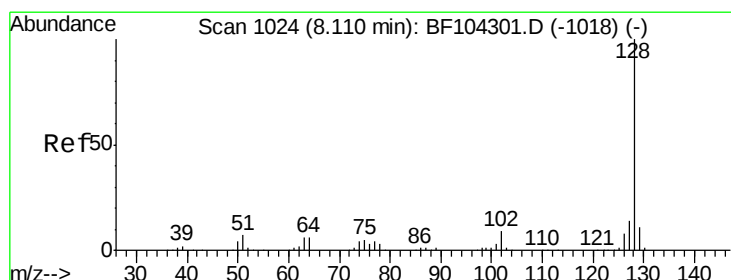
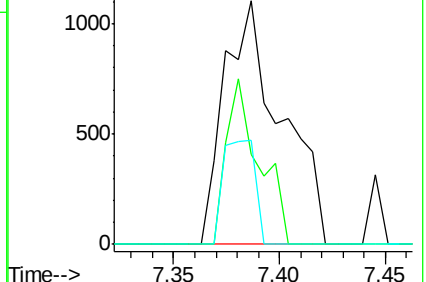
54 42.6 41.4 62.2



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



#31

Naphthalene

Concen: 3.946 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

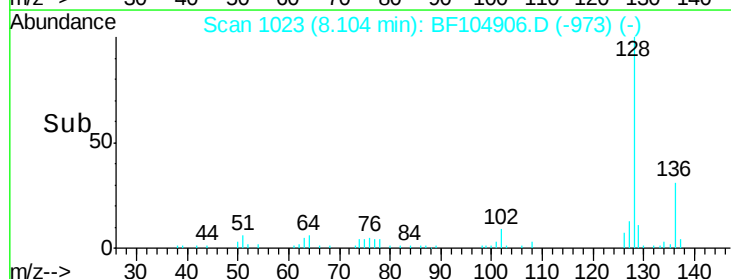
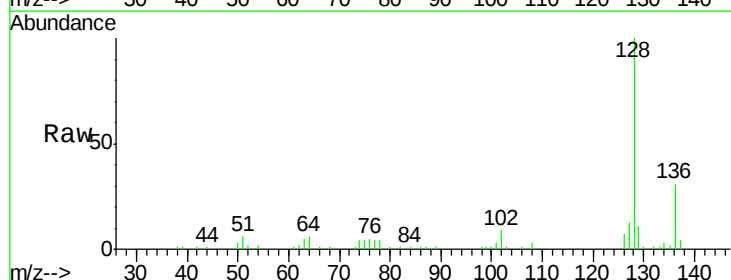
Tgt Ion: 128 Resp: 66166

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

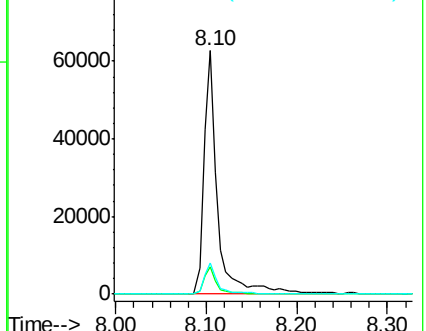
127 12.8 10.9 16.3

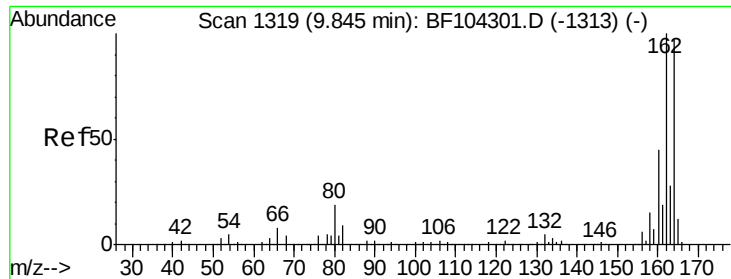


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

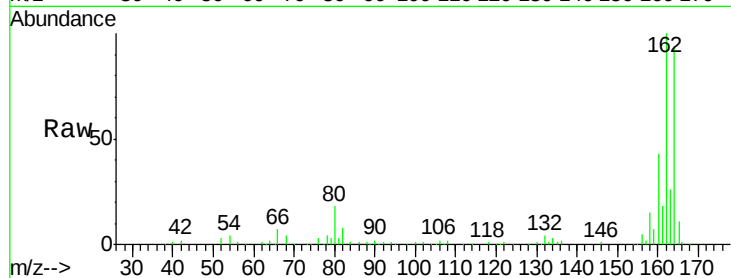
Tot Ion:164 Resp: 138266

Ion Ratio Lower Upper

164 100

162 106.4 86.1 129.1

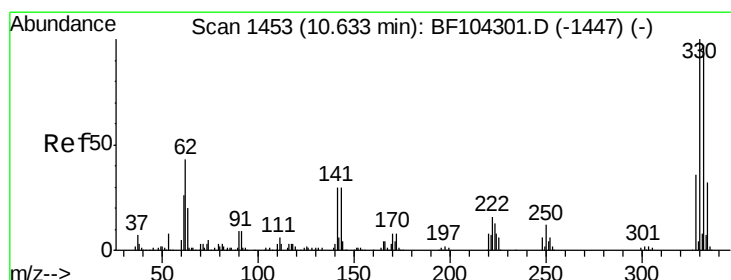
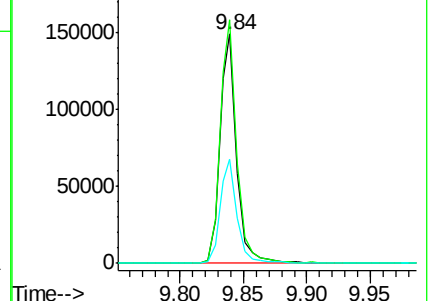
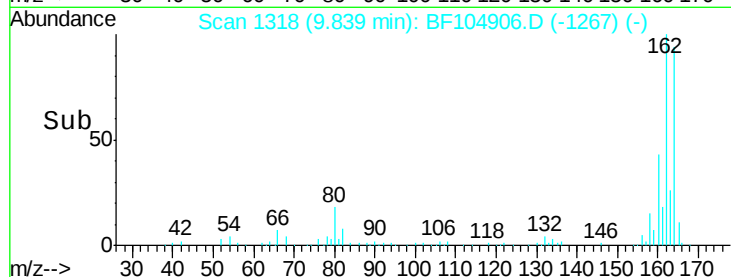
160 45.6 38.3 57.5



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: 0.519 ng

RT: 10.64 min Scan# 1454

Delta R.T. 0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

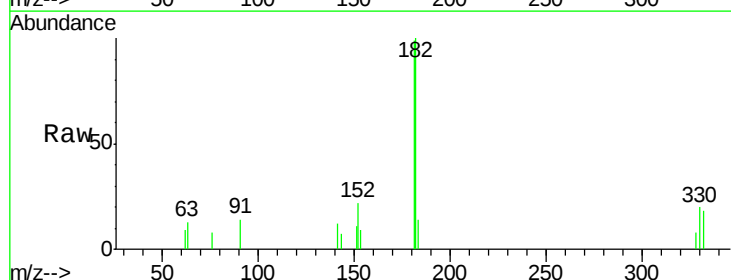
Tgt Ion:330 Resp: 745

Ion Ratio Lower Upper

330 100

332 106.2 77.0 115.6

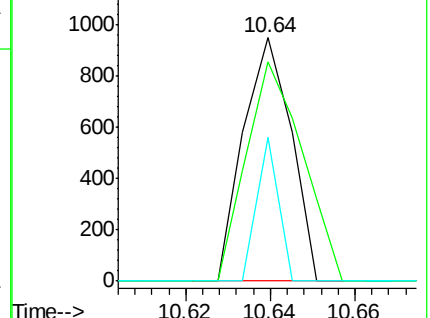
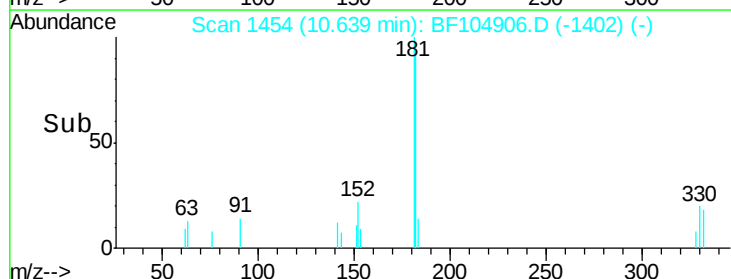
141 26.6 29.9 44.9#



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

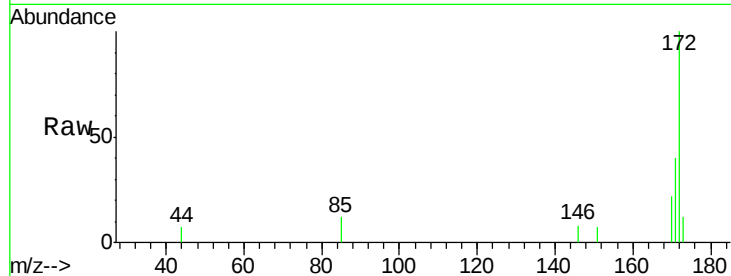
Ion 141.00 (140.70 to 141.70): E



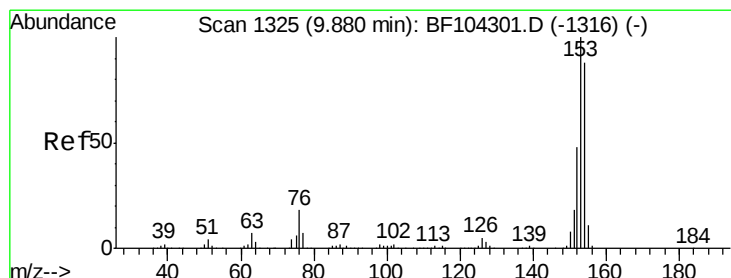
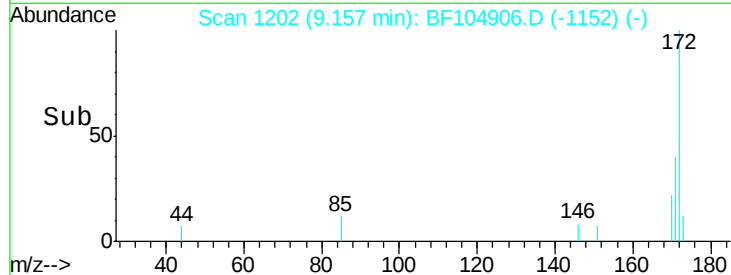
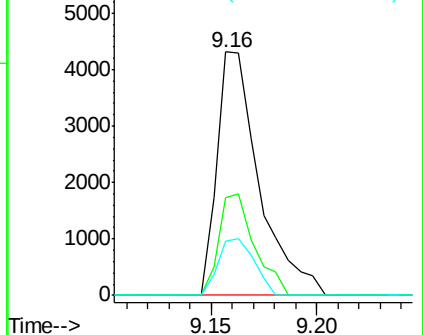


#44
 2-Fluorobiphenyl
 Concen: 0.682 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tot Ion:172	Resp: 5970
Ion Ratio	Lower Upper
172 100	
171 40.3	29.7 44.5
170 22.2	19.6 29.4

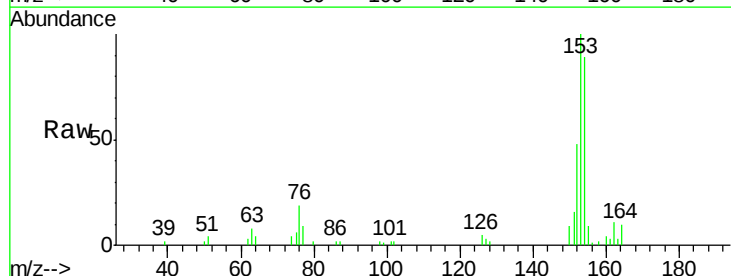


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

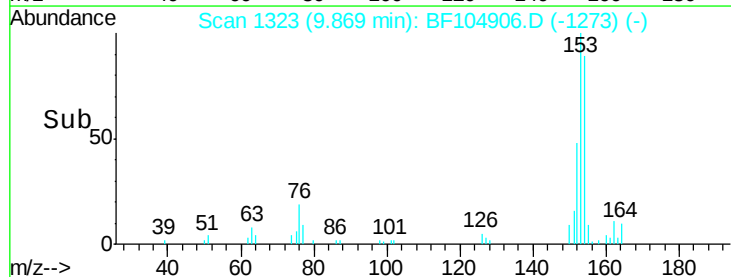
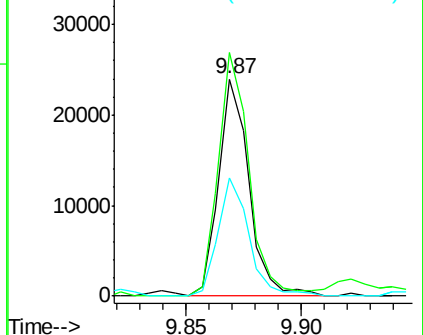


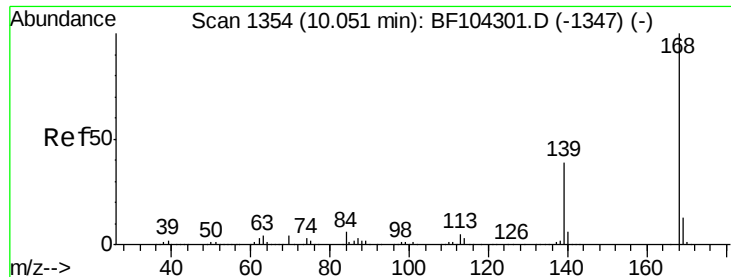
#51
 Acenaphthene
 Concen: 2.489 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tgt	Ion:154	Resp:	21856
Ion	Ratio	Lower	Upper
154	100		
153	112.3	91.2	136.8
152	54.2	43.8	65.8



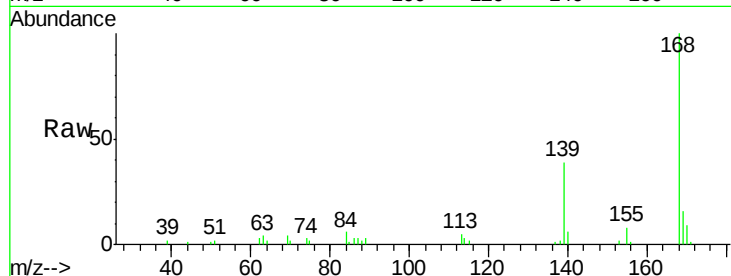
Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E



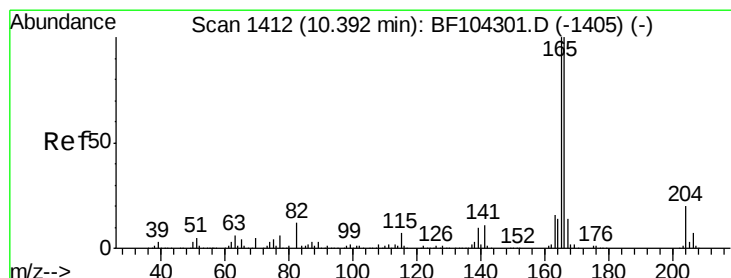
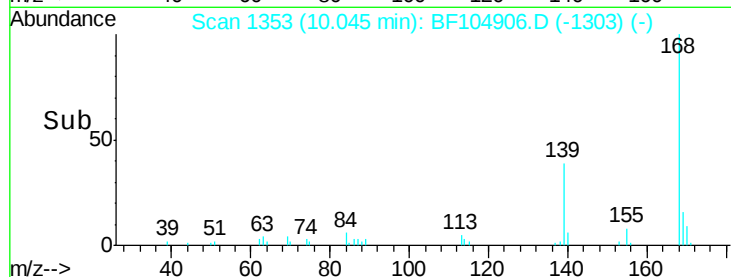
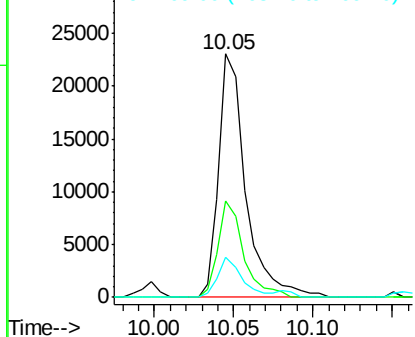


#54
Dibenzenofuran
Concen: 2.242 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tot Ion:168 Resp: 27447
Ion Ratio Lower Upper
168 100
139 39.4 30.1 45.1
169 16.5 10.9 16.3#

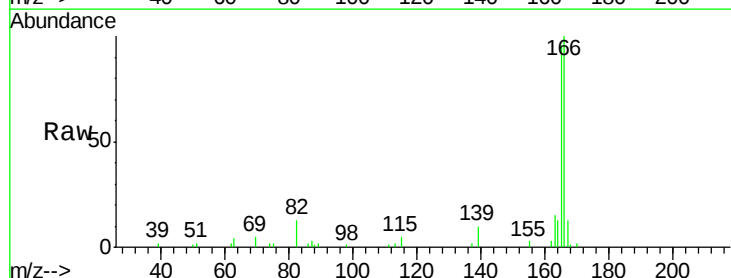


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

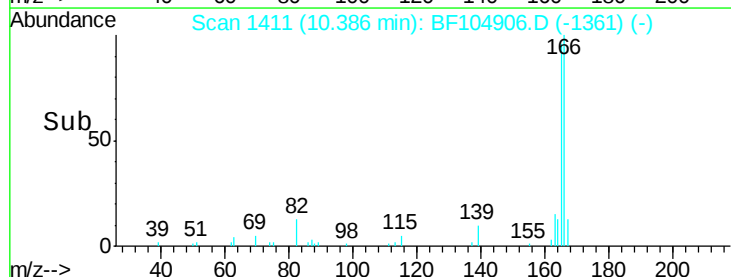
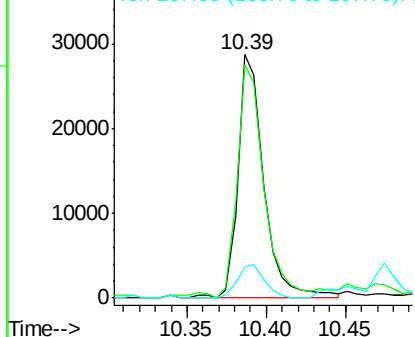


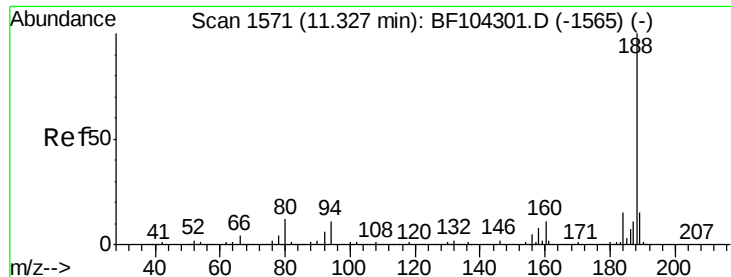
#57
Fluorene
Concen: 3.659 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tgt Ion:166 Resp: 32594
Ion Ratio Lower Upper
166 100
165 95.9 79.8 119.8
167 13.0 10.6 16.0



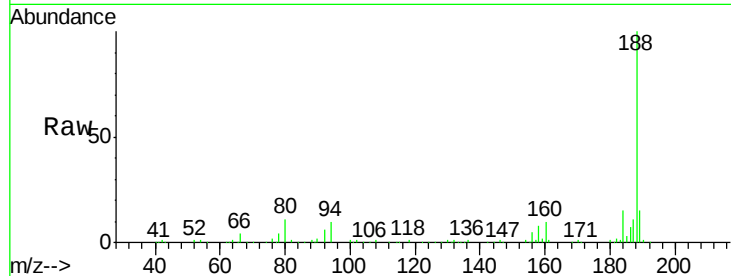
Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

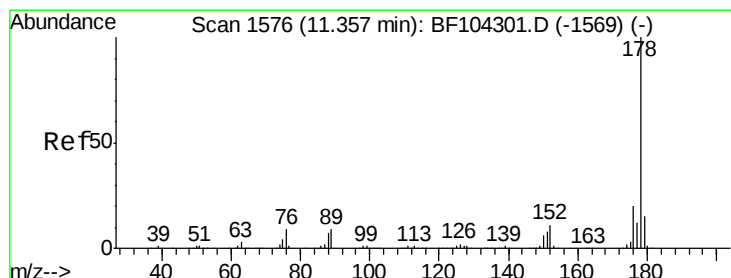
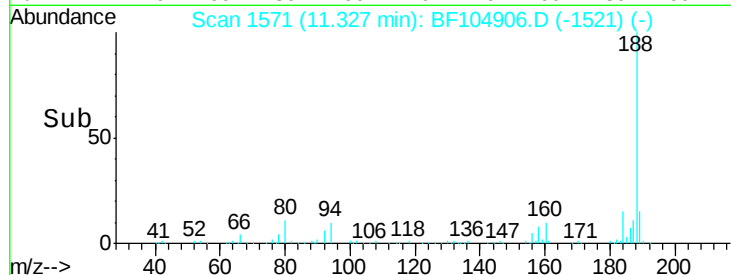
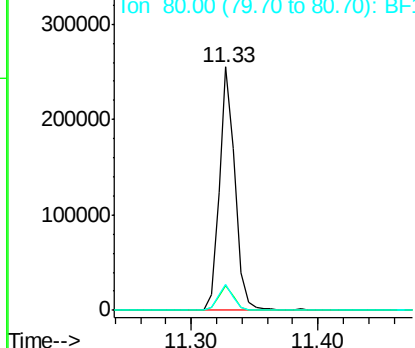
Tot Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.5	12.7
80	10.6	9.2	13.8



Abundance Ion 188.00 (187.70 to 188.70): E

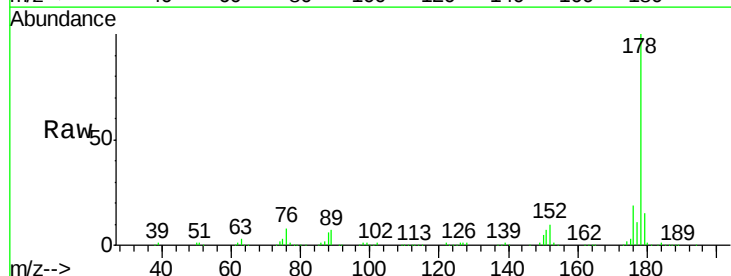
Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#70
Phenanthrene
Concen: 30.344 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.00 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

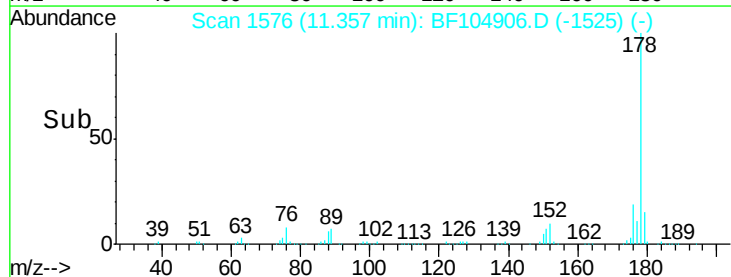
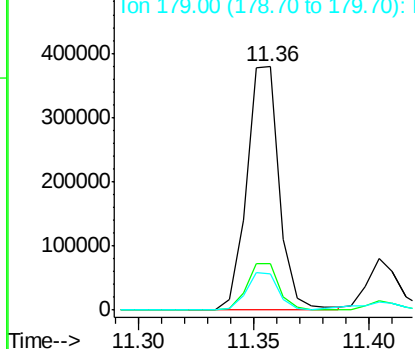
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	14.8	13.0	19.6

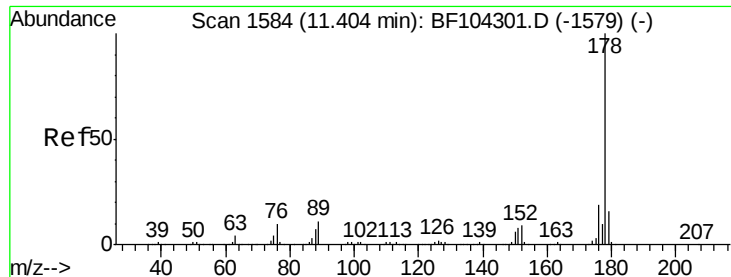


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

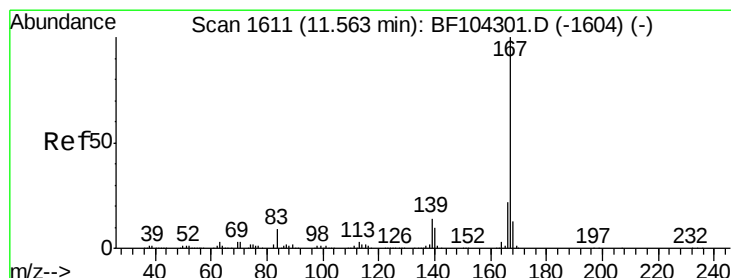
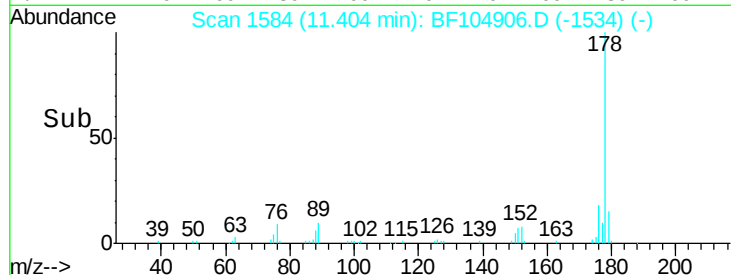
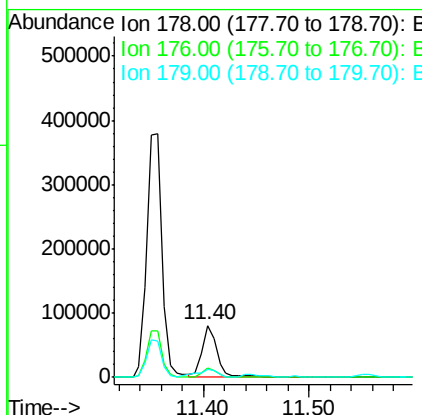
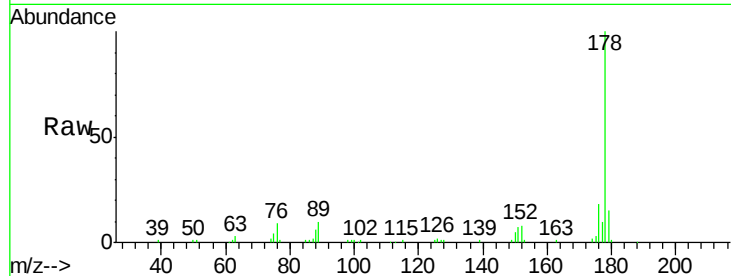
Ion 179.00 (178.70 to 179.70): E





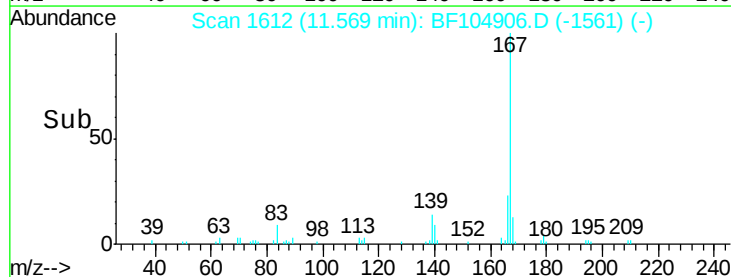
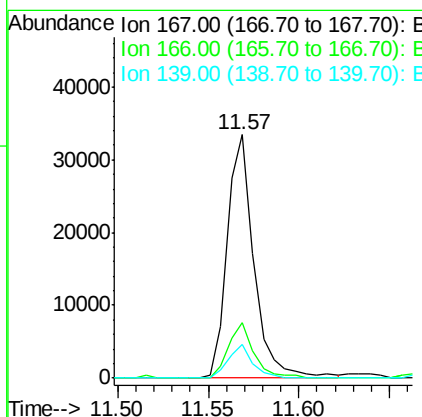
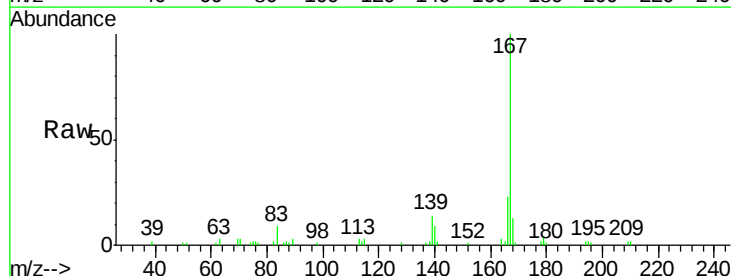
#71
 Anthracene
 Concen: 6.499 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

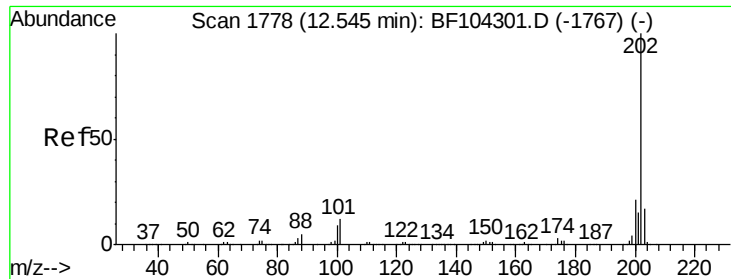
Tot Ion	178	Resp	81233
Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.2
179	15.1	12.6	19.0



#72
 Carbazole
 Concen: 2.822 ng
 RT: 11.57 min Scan# 1612
 Delta R.T. 0.00 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tgt Ion	167	Resp	34468
Ion	Ratio	Lower	Upper
167	100		
166	22.6	17.6	26.4
139	13.9	10.9	16.3





#74

Fluoranthene

Concen: 29.665 ng

RT: 12.55 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

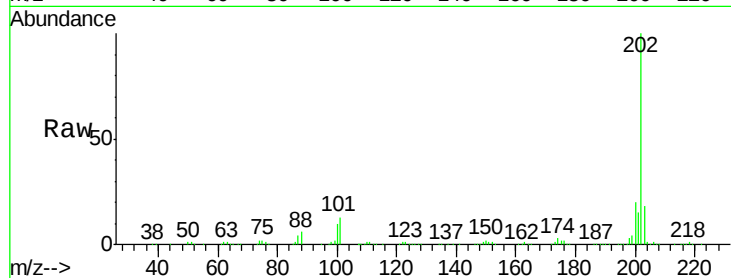
Tot Ion:202 Resp: 381092

Ion Ratio Lower Upper

202 100

101 13.0 0.0 34.1

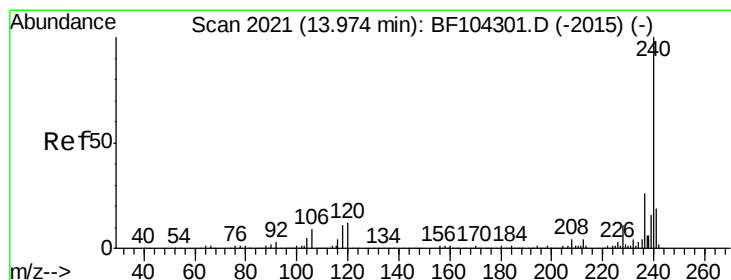
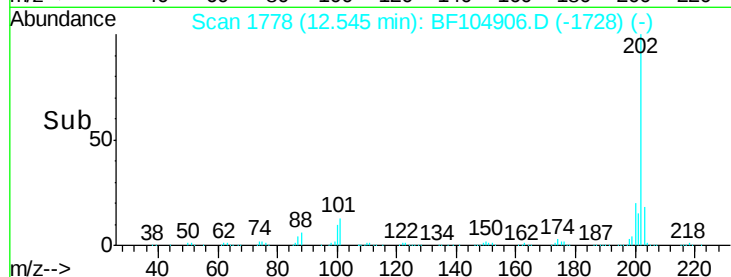
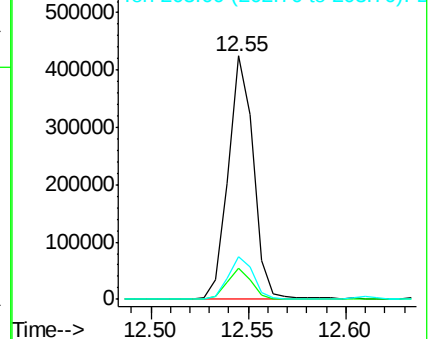
203 17.7 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

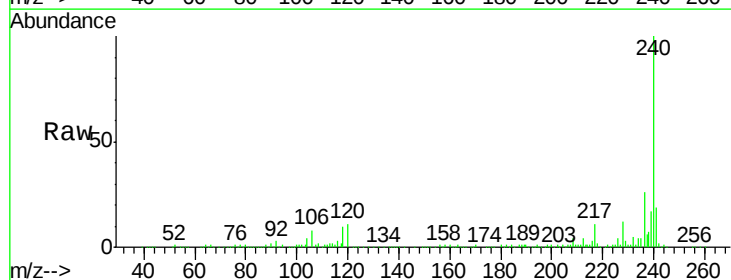
Tgt Ion:240 Resp: 199153

Ion Ratio Lower Upper

240 100

120 10.9 9.5 14.3

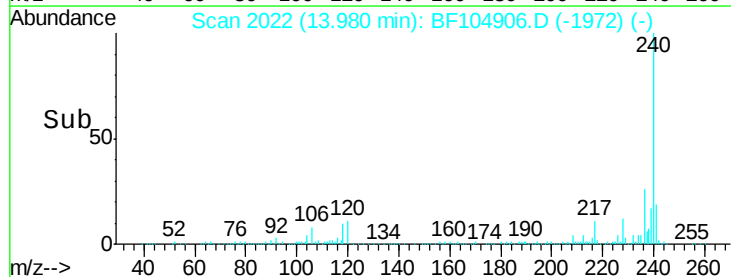
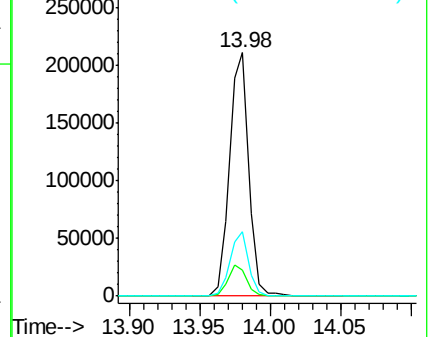
236 26.3 20.7 31.1

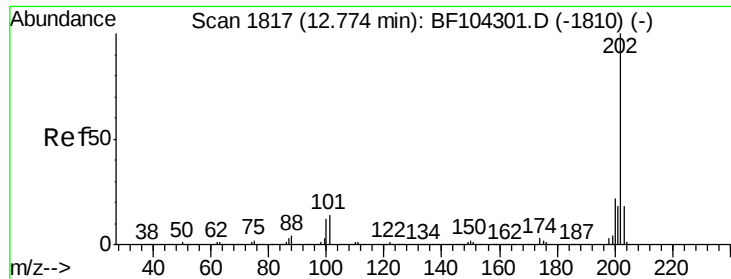


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

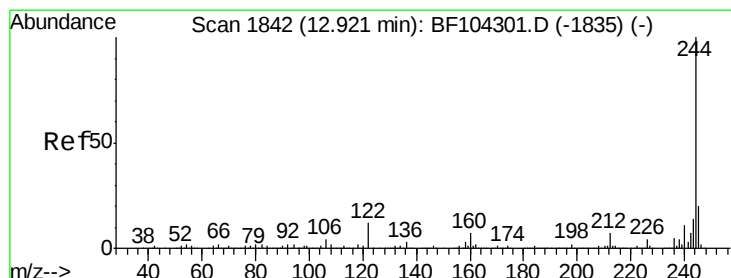
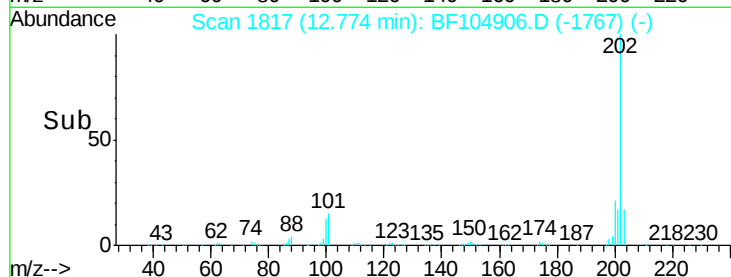
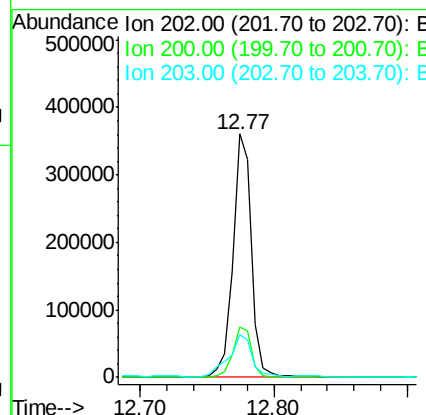
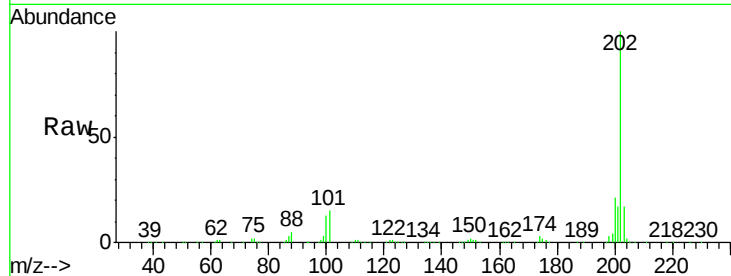
Ion 236.00 (235.70 to 236.70): E





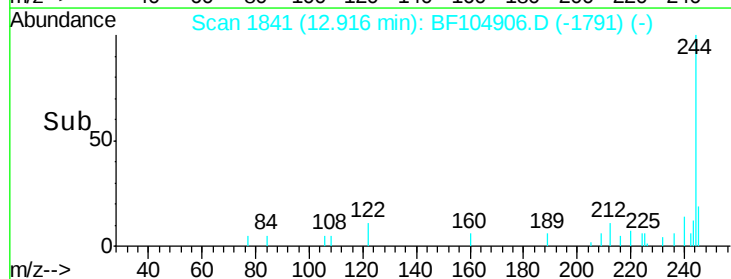
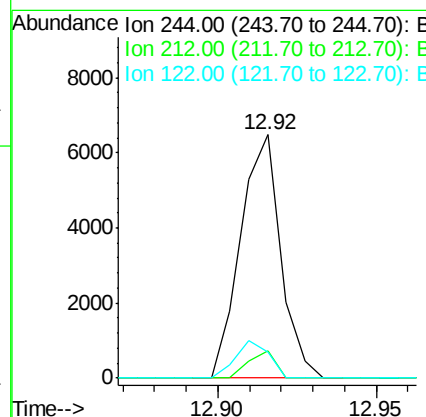
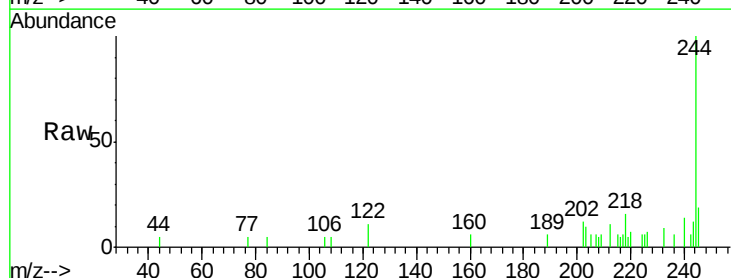
#77
Pvrene
Concen: 23.816 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

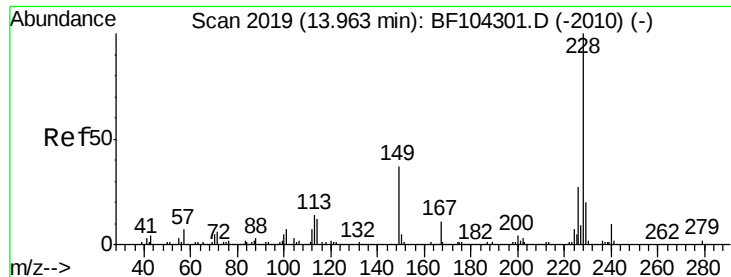
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.4	26.2
203	17.5	14.3	21.5



#78
Terphenyl-d14
Concen: 0.648 ng
RT: 12.92 min Scan# 1841
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

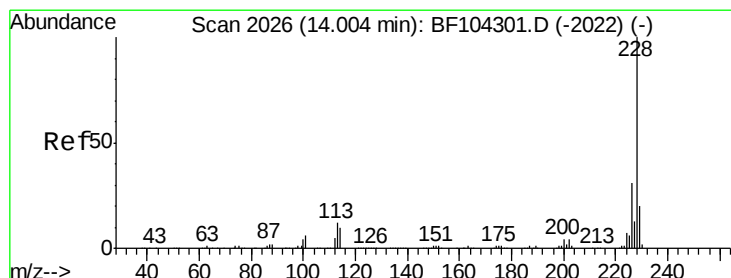
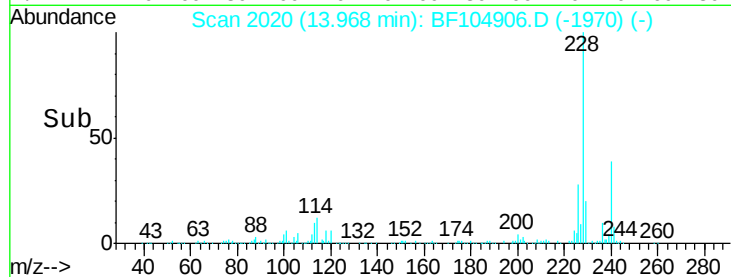
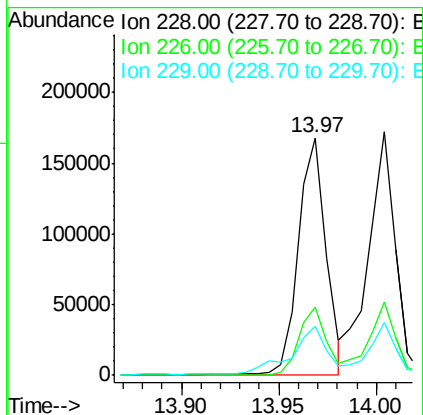
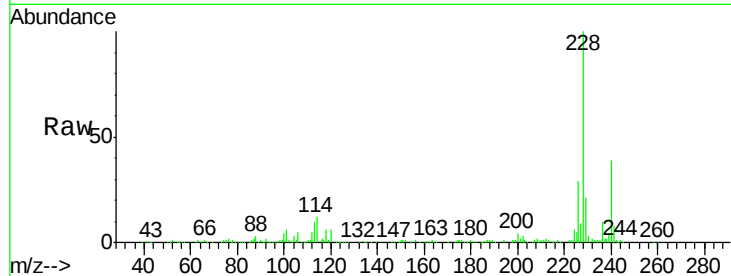
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.2	5.4	8.0#
122	10.6	11.0	16.4#





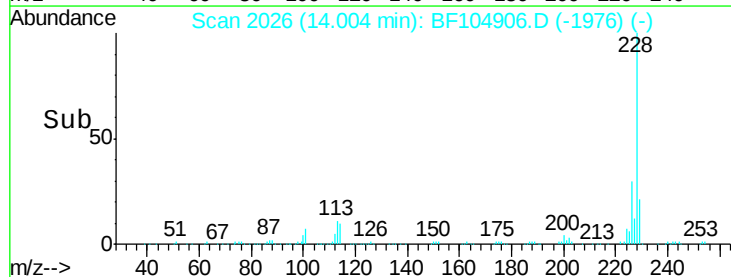
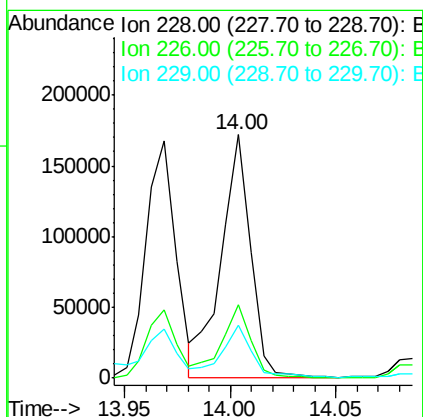
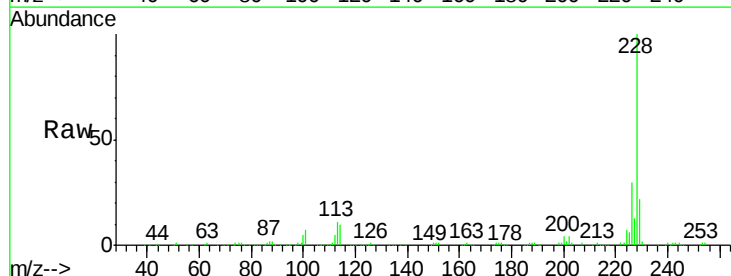
#80
Benzo(a)anthracene
Concen: 13.955 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

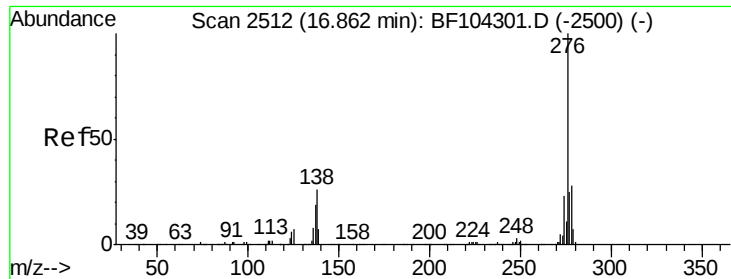
Tot Ion:228 Resp: 166026
Ion Ratio Lower Upper
228 100
226 28.5 22.6 33.8
229 20.7 15.8 23.6



#82
Chrysene
Concen: 13.641 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

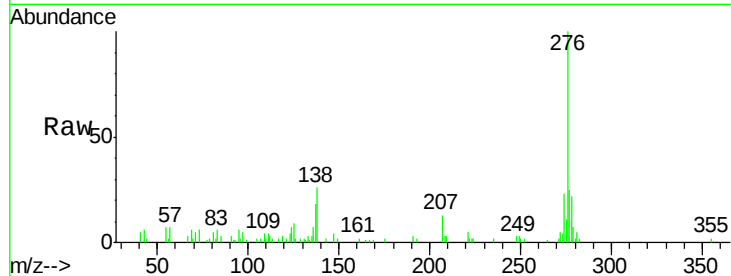
Tgt Ion:228 Resp: 166708
Ion Ratio Lower Upper
228 100
226 30.3 25.0 37.6
229 21.8 16.2 24.4



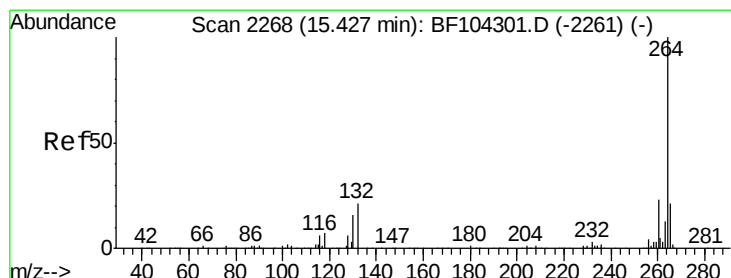
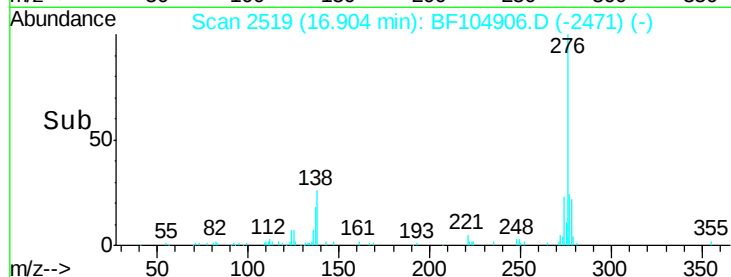
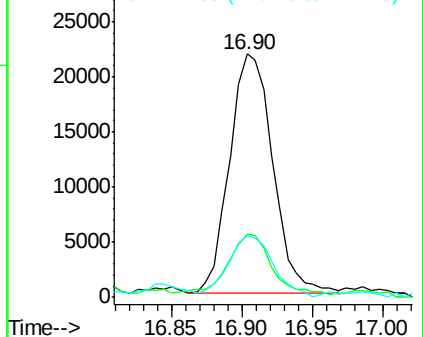


#85
Indeno(1,2,3-cd)pyrene
Concen: 4.485 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.02 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.7	25.0	37.6
277	26.9	20.1	30.1

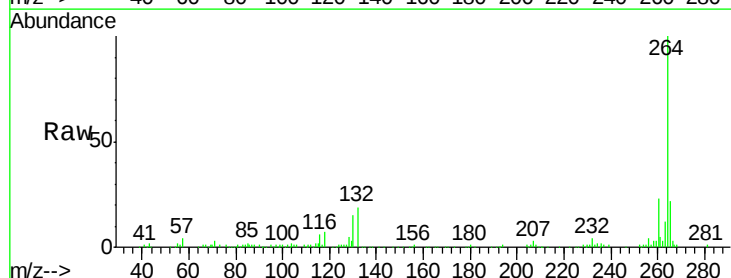


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

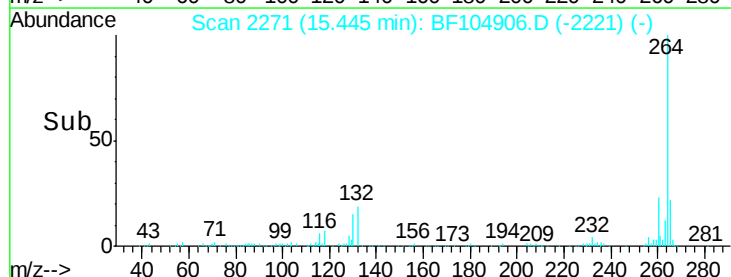
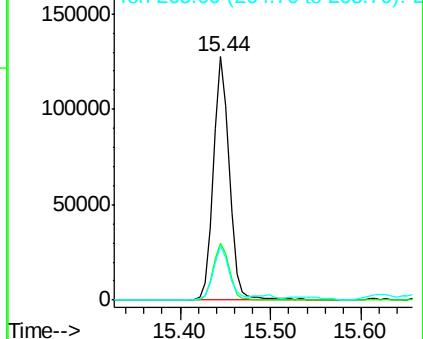


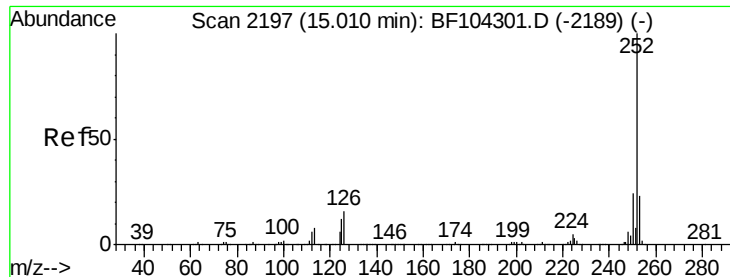
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.2	17.5	26.3



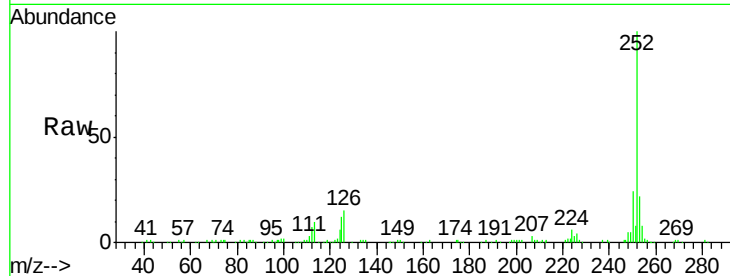
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



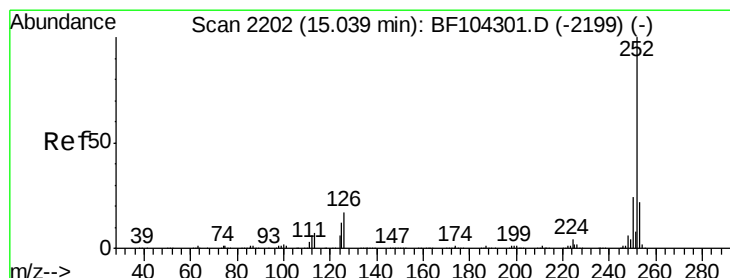
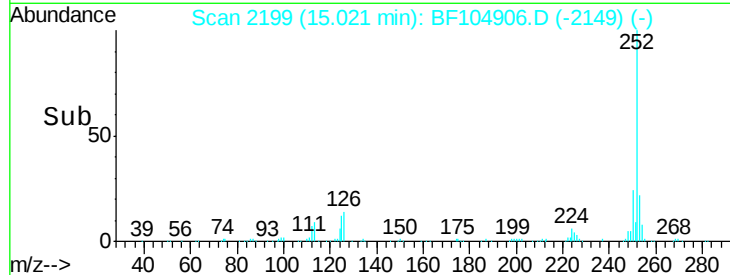
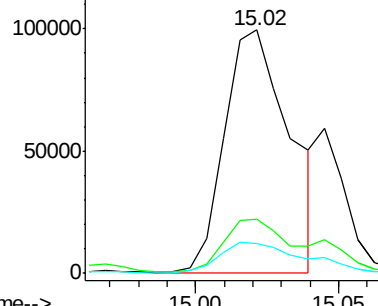


#87
Benzo(b)fluoranthene
Concen: 15.826 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	12.5	9.0	13.6

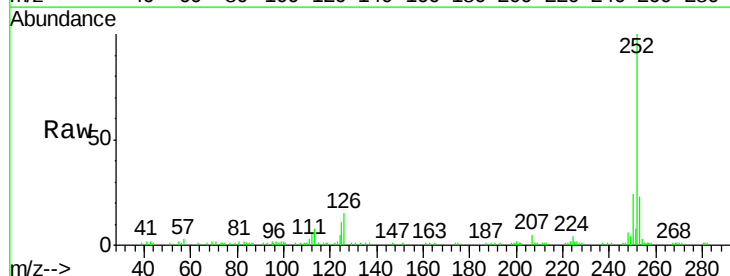


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

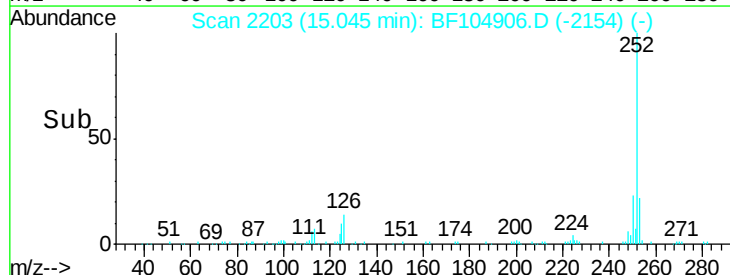
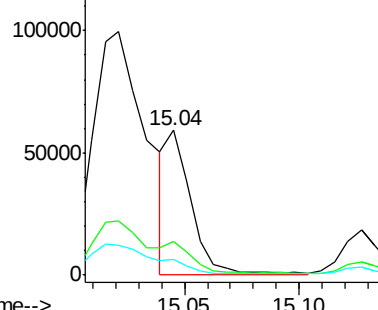


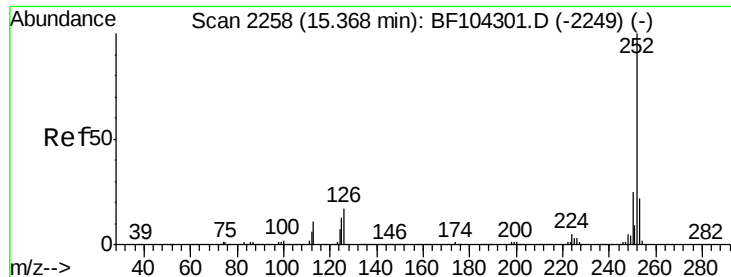
#88
Benzo(k)fluoranthene
Concen: 4.559 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	10.5	10.2	15.2



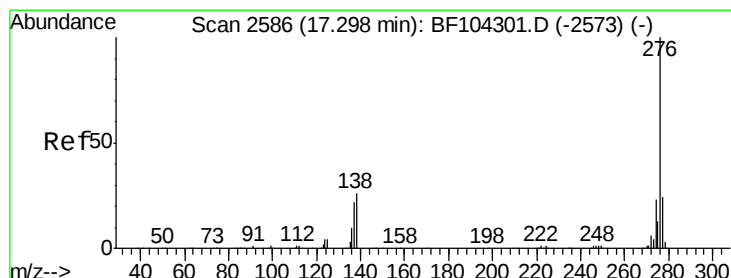
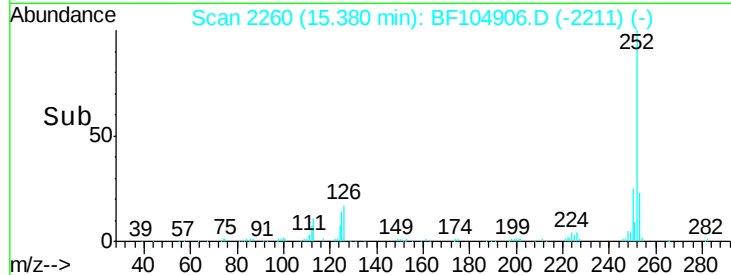
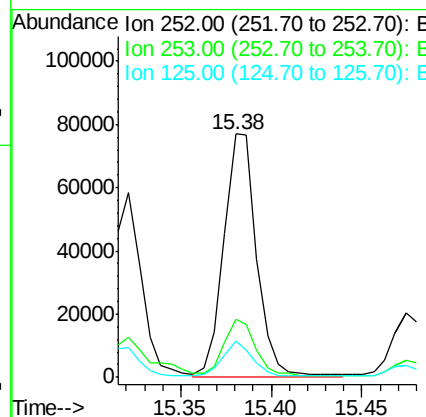
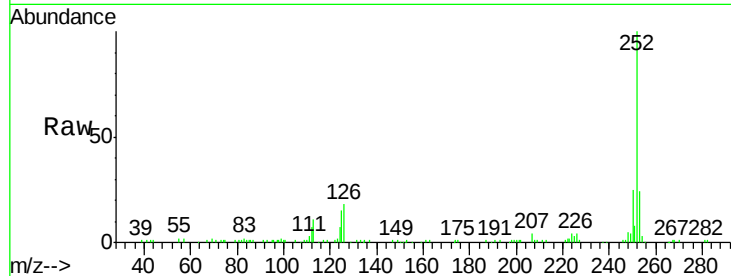
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#89
Benzo(a)pyrene
Concen: 10.988 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tot Ion:252 Resp: 97802
Ion Ratio Lower Upper
252 100
253 23.7 17.1 25.7
125 14.8 9.8 14.6#



#91
Benzo(g,h,i)perylene
Concen: 6.063 ng
RT: 17.35 min Scan# 2595
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tgt Ion:276 Resp: 42945
Ion Ratio Lower Upper
276 100
277 23.2 17.9 26.9
138 26.1 21.8 32.8

