

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM121918\
 Data File : BM018311.D
 Acq On : 20 Dec 2018 00:01
 Operator : JU/SJ
 Sample : J6445-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 EB06_1-3

Quant Time: Dec 20 01:09:35 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 15 21:39:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.49	152	121574	20.00	ng	-0.02
21) Naphthalene-d8	10.25	136	442242	20.00	ng	-0.02
39) Acenaphthene-d10	14.14	164	225458	20.00	ng	-0.02
64) Phenanthrene-d10	16.90	188	468406	20.00	ng	-0.02
76) Chrysene-d12	21.13	240	509540	20.00	ng	-0.02
87) Perylene-d12	23.29	264	567874	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.12	112	401959	55.23	ng	0.00
7) Phenol-d6	6.69	99	514538	50.87	ng	-0.02
23) Nitrobenzene-d5	8.64	82	318920	36.99	ng	-0.02
42) 2,4,6-Tribromophenol	15.65	330	158324	47.85	ng	-0.02
45) 2-Fluorobiphenyl	12.75	172	631717	36.29	ng	-0.02
79) Terphenyl-d14	19.56	244	840177	37.29	ng	-0.01

Target Compounds

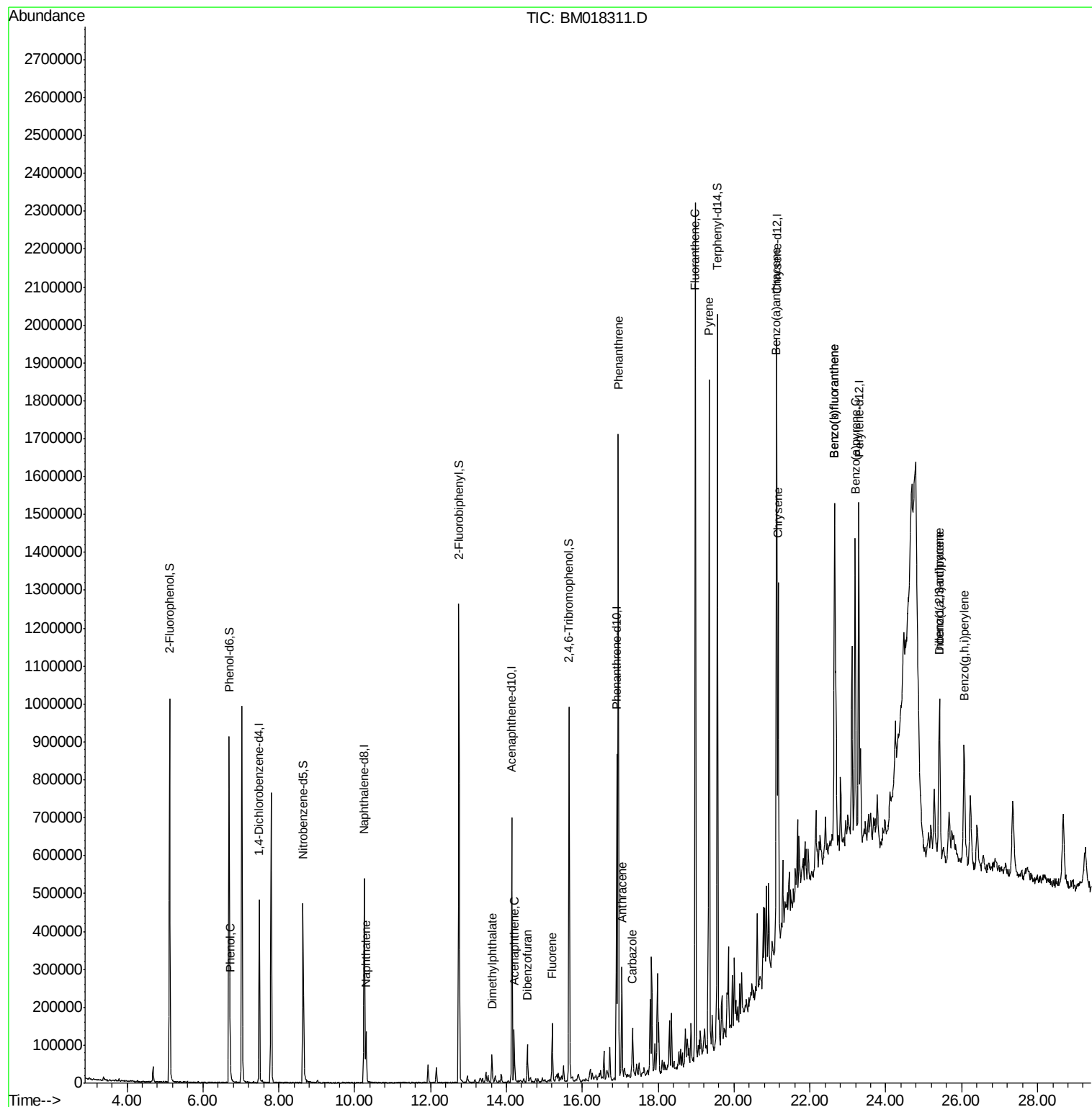
						Qvalue
10) Phenol	6.72	94	33390	3.117	ng	95
31) Naphthalene	10.30	128	108721	5.028	ng	99
50) Dimethylphthalate	13.62	163	51726	2.760	ng	98
52) Acenaphthene	14.21	154	48540	3.531	ng	96
55) Dibenzofuran	14.55	168	54998	2.490	ng	96
58) Fluorene	15.20	166	62322	3.653	ng	96
71) Phenanthrene	16.95	178	949361	37.314	ng	99
72) Anthracene	17.04	178	171713	6.803	ng	96
73) Carbazole	17.33	167	76861	2.967	ng	97
75) Fluoranthene	18.98	202	1236972	41.817	ng	99
78) Pyrene	19.34	202	1037687	34.178	ng	99
81) Benzo(a)anthracene	21.11	228	572920	19.248	ng	99
83) Chrysene	21.16	228	536527	18.740	ng	98
86) Indeno(1,2,3-cd)pyrene	25.41	276	366307	12.845	ng	# 95
88) Benzo(b)fluoranthene	22.65	252	943946	29.592	ng	97
89) Benzo(k)fluoranthene	22.65	252	945754	29.771	ng	96
90) Benzo(a)pyrene	23.19	252	517936	17.072	ng	98
91) Dibenzo(a,h)anthracene	25.41	278	100198	3.565	ng	# 89
92) Benzo(g,h,i)perylene	26.06	276	350010	13.175	ng	96

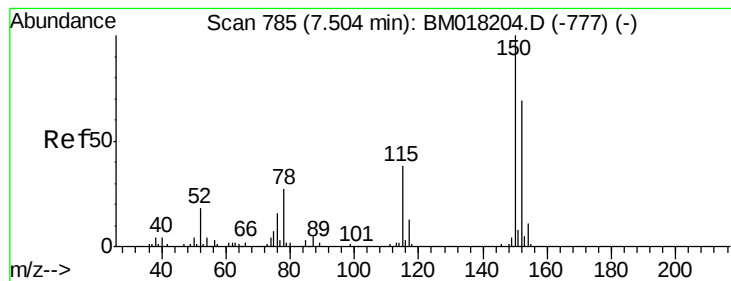
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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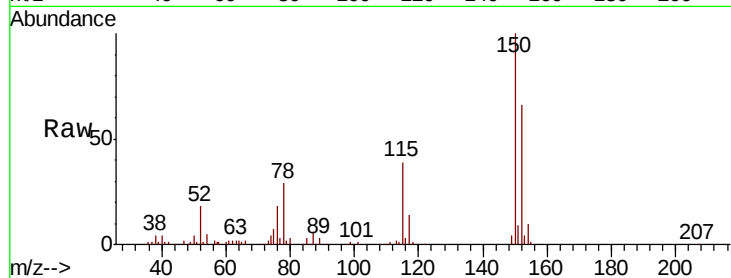


#1

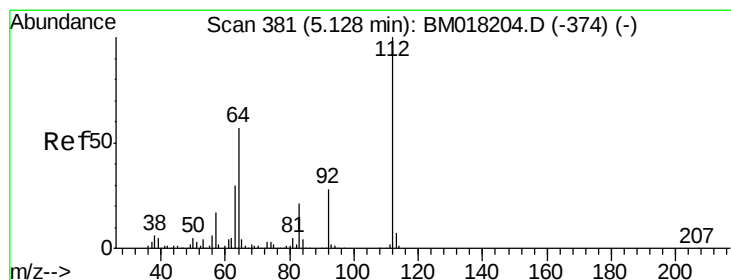
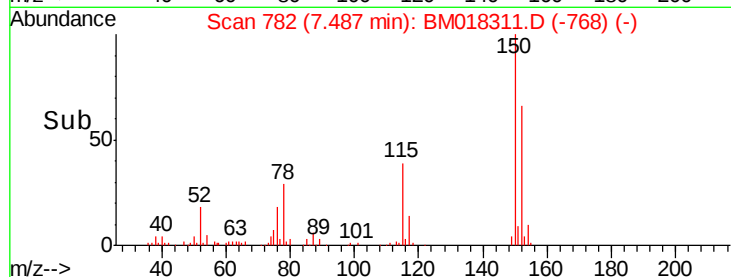
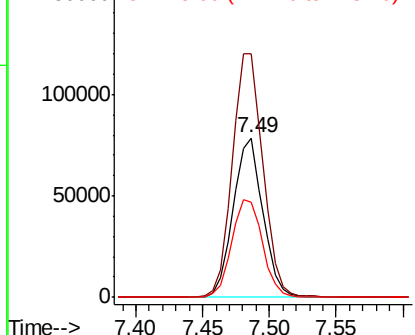
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.49 min Scan# 782
 Delta R.T. -0.02 min
 Lab File: BM018311.D
 Acq: 20 Dec 2018 00:01

Instrument :
 BNA_M
 ClientSampleId :
 EB06_1-3

Tgt Ion:152 Resp: 121574
 Ion Ratio Lower Upper
 152 100
 150 152.6 116.1 174.1
 115 59.3 44.6 67.0



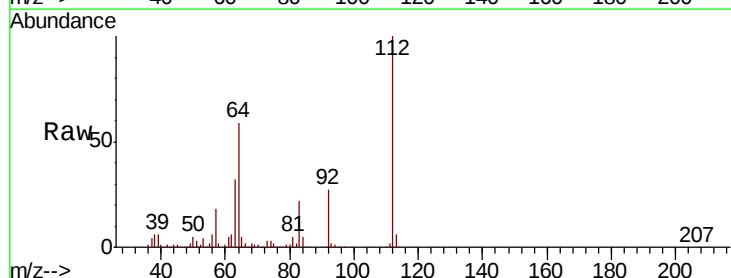
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



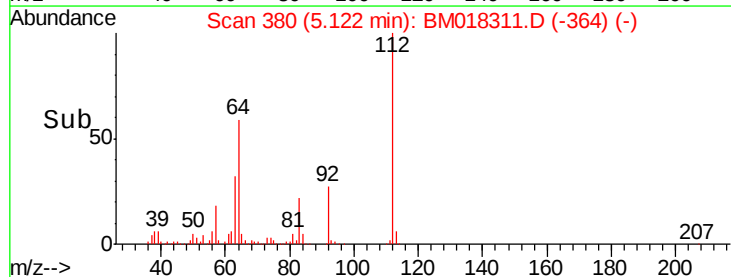
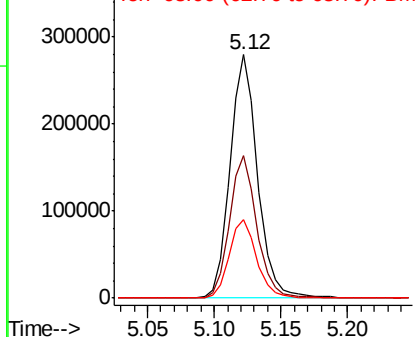
#5

2-Fluorophenol
 Concen: 55.231 ng
 RT: 5.12 min Scan# 380
 Delta R.T. -0.01 min
 Lab File: BM018311.D
 Acq: 20 Dec 2018 00:01

Tgt Ion:112 Resp: 401959
 Ion Ratio Lower Upper
 112 100
 64 58.7 45.4 68.2
 63 32.1 24.0 36.0



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BM0
 Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 50.866 ng

RT: 6.69 min Scan# 646

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

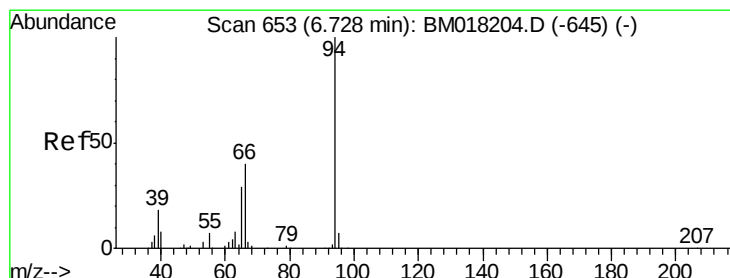
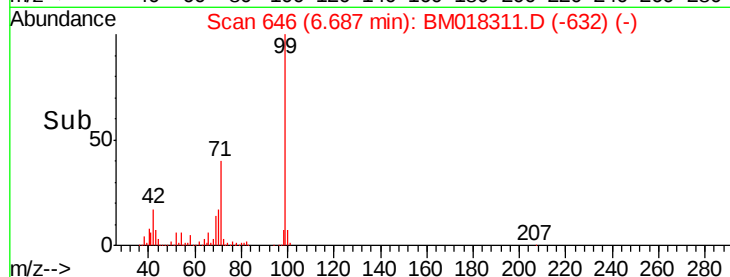
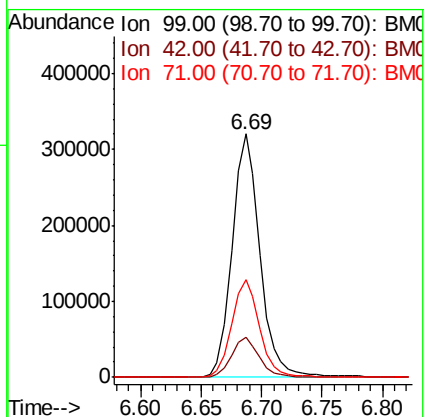
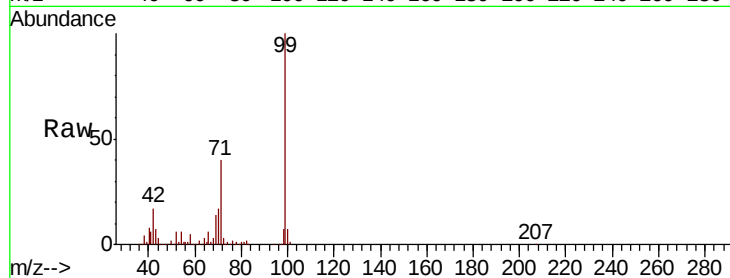
Tgt Ion: 99 Resp: 514538

Ion Ratio Lower Upper

99 100

42 16.5 12.3 18.5

71 40.1 30.2 45.2



#10

Phenol

Concen: 3.117 ng

RT: 6.72 min Scan# 651

Delta R.T. -0.01 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

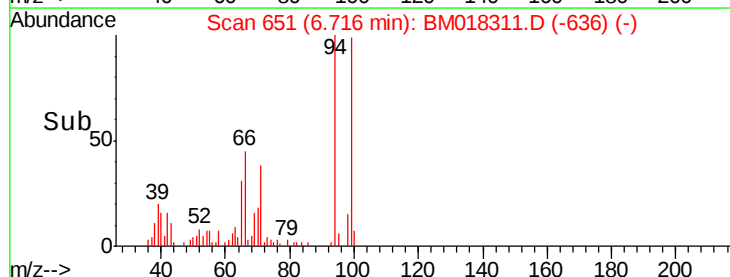
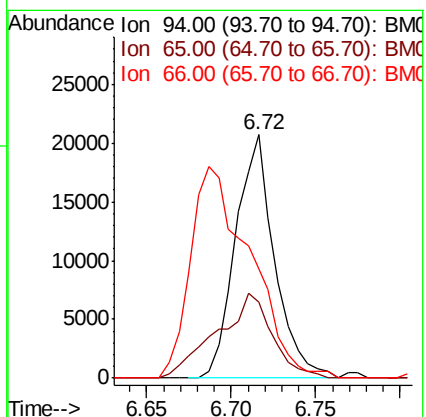
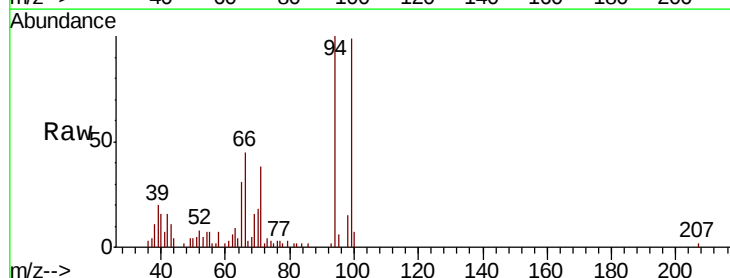
Tgt Ion: 94 Resp: 33390

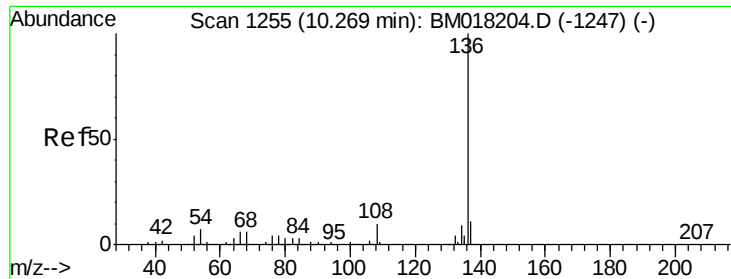
Ion Ratio Lower Upper

94 100

65 31.0 9.5 49.5

66 45.0 21.3 61.3

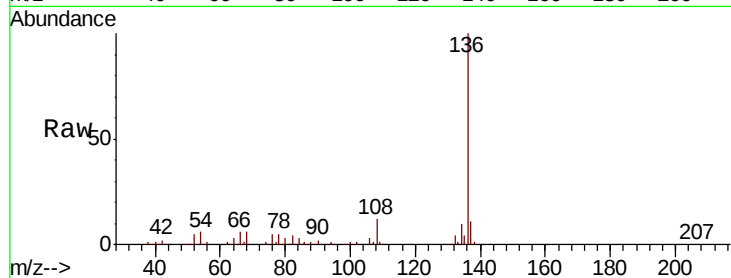




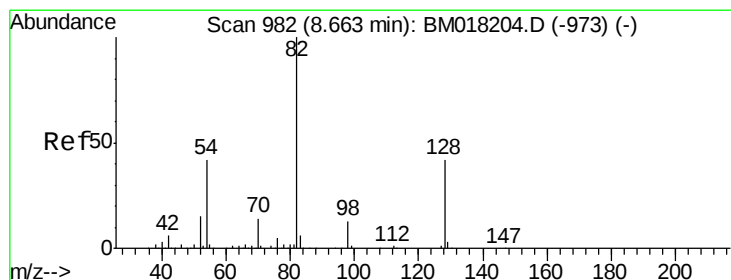
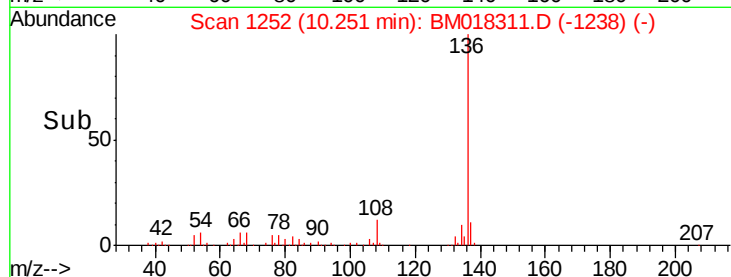
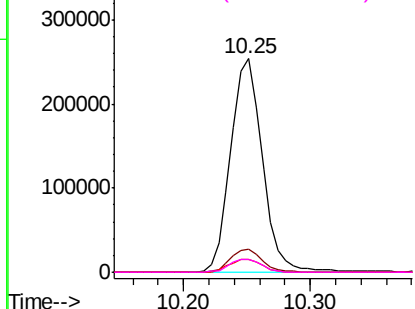
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.25 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

Instrument :
BNA_M
ClientSampleId :
EB06_1-3

Tgt Ion:	136	Resp:	442242
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	6.0	5.2	7.8
68	6.1	5.0	7.6

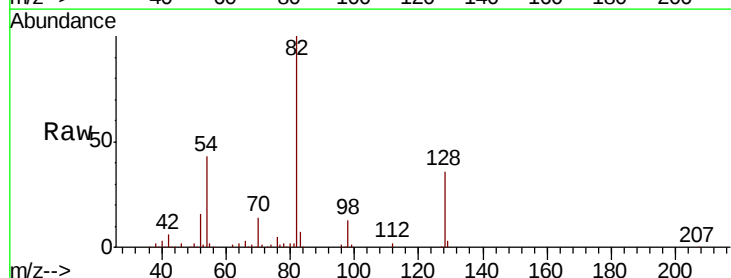


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM
Ion 68.00 (67.70 to 68.70): BM

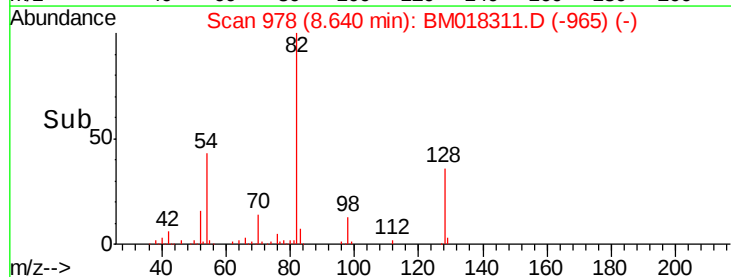
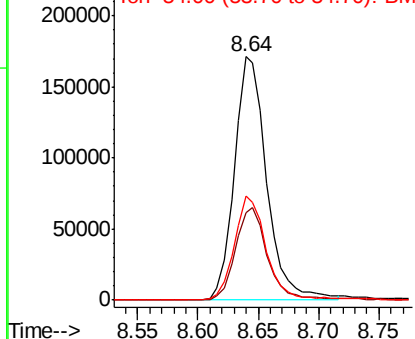


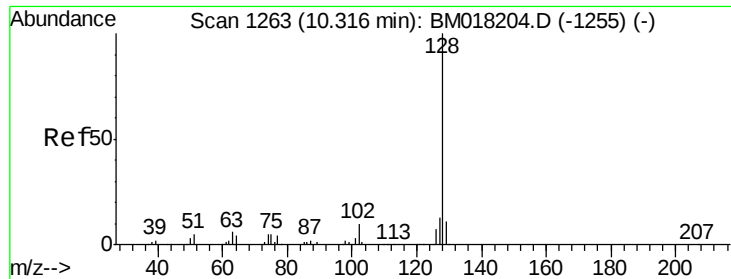
#23
Nitrobenzene-d5
Concen: 36.990 ng
RT: 8.64 min Scan# 978
Delta R.T. -0.02 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

Tgt Ion:	82	Resp:	318920
Ion	Ratio	Lower	Upper
82	100		
128	35.8	33.4	50.2
54	43.0	33.4	50.2



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

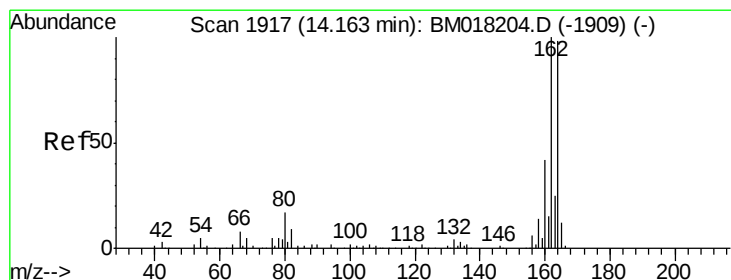
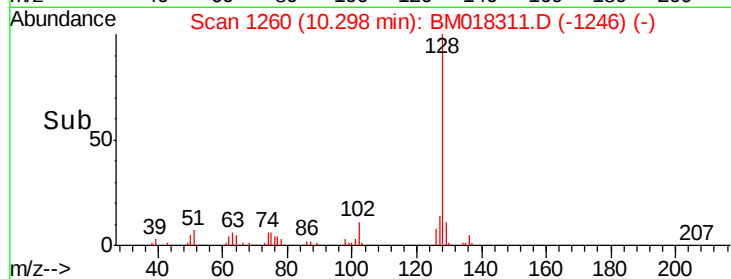
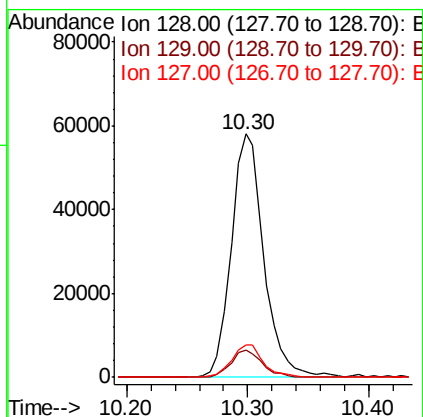
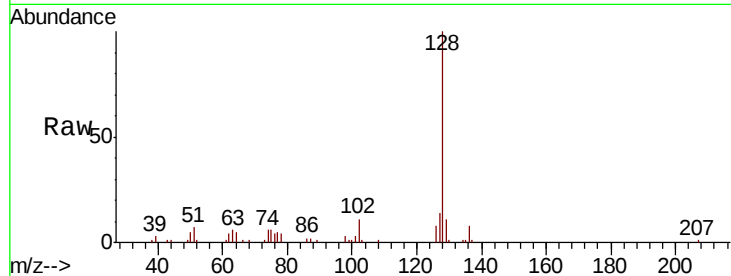




#31
Naphthalene
Concen: 5.028 ng
RT: 10.30 min Scan# 1260
Delta R.T. -0.02 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

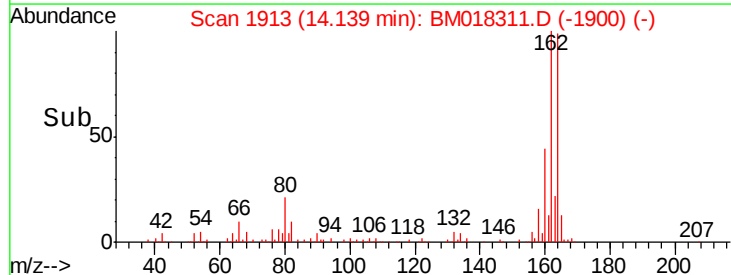
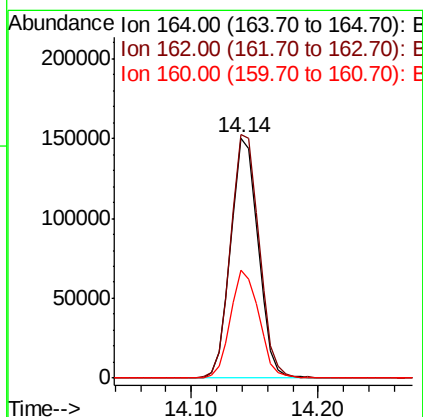
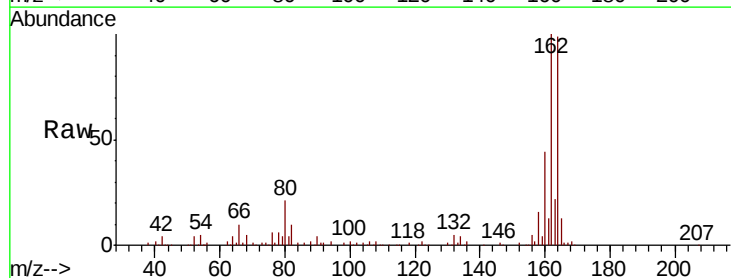
Instrument :
BNA_M
ClientSampleId :
EB06_1-3

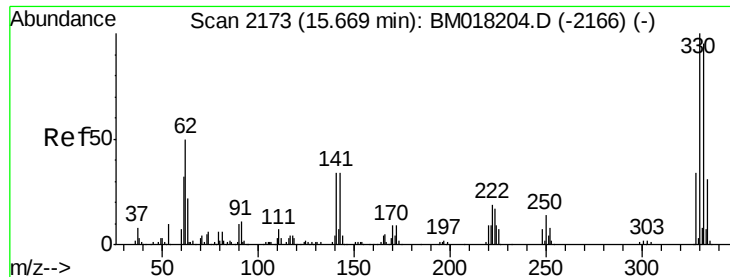
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.9	13.3
127	13.6	10.4	15.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.14 min Scan# 1913
Delta R.T. -0.02 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.8	122.6
160	44.9	34.6	51.8

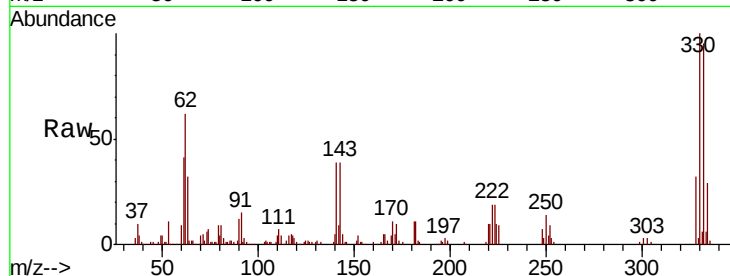




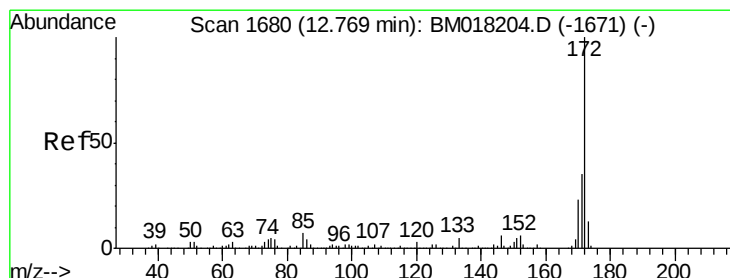
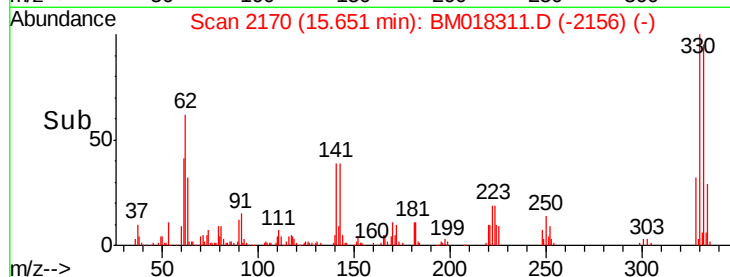
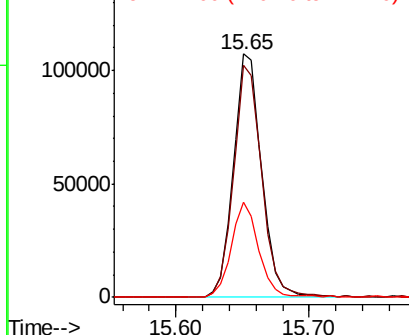
#42
 2,4,6-Tribromophenol
 Concen: 47.845 ng
 RT: 15.65 min Scan# 2170
 Delta R.T. -0.02 min
 Lab File: BM018311.D
 Acq: 20 Dec 2018 00:01

Instrument :
 BNA_M
 ClientSampled :
 EB06_1-3

Tgt Ion:330 Resp: 158324
 Ion Ratio Lower Upper
 330 100
 332 95.3 78.6 118.0
 141 38.4 27.1 40.7

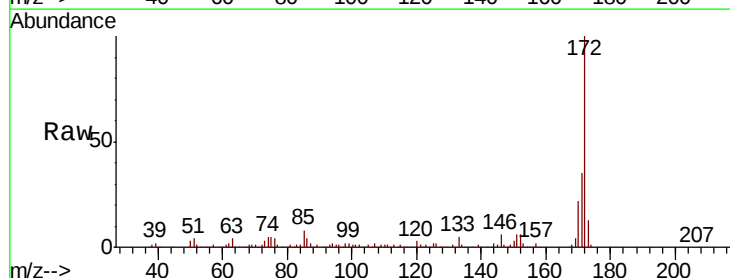


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

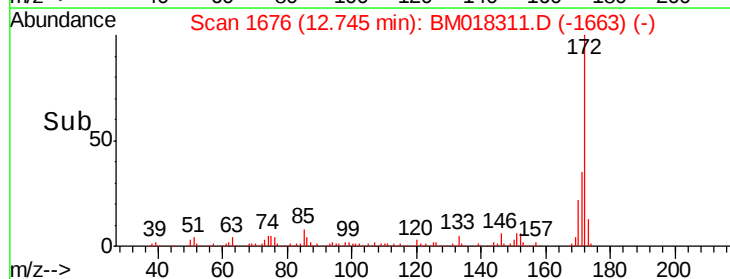
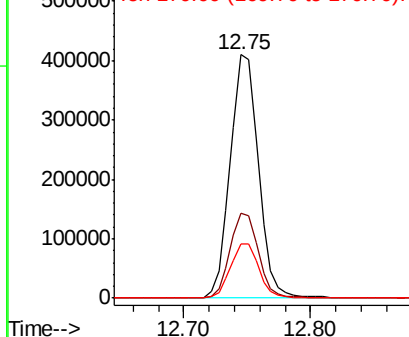


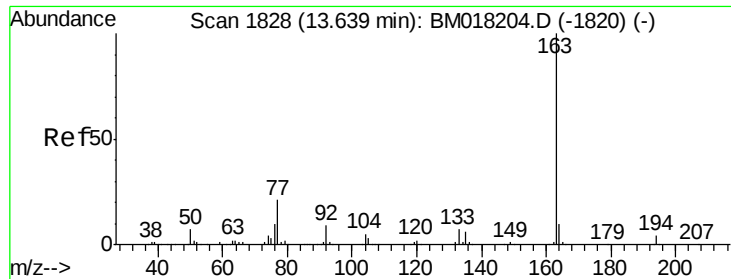
#45
 2-Fluorobiphenyl
 Concen: 36.292 ng
 RT: 12.75 min Scan# 1676
 Delta R.T. -0.02 min
 Lab File: BM018311.D
 Acq: 20 Dec 2018 00:01

Tgt Ion:172 Resp: 631717
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.3 42.5
 170 22.3 18.1 27.1



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





#50

Dimethylphthalate

Concen: 2.760 ng

RT: 13.62 min Scan# 1824

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

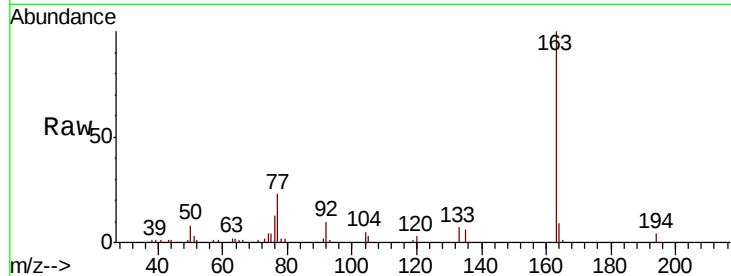
Tgt Ion:163 Resp: 51726

Ion Ratio Lower Upper

163 100

194 3.5 3.1 4.7

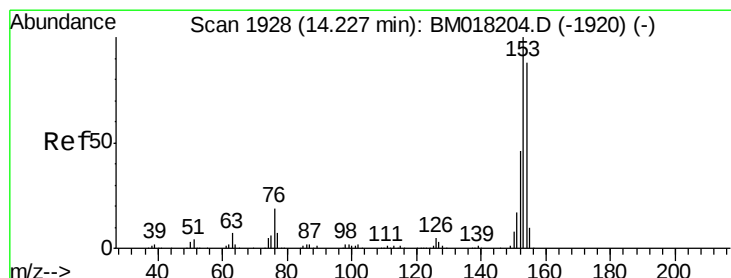
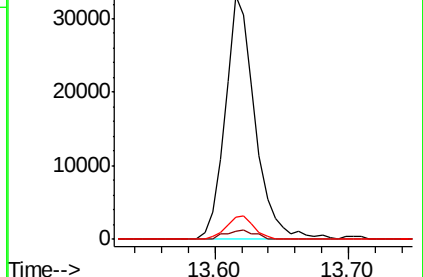
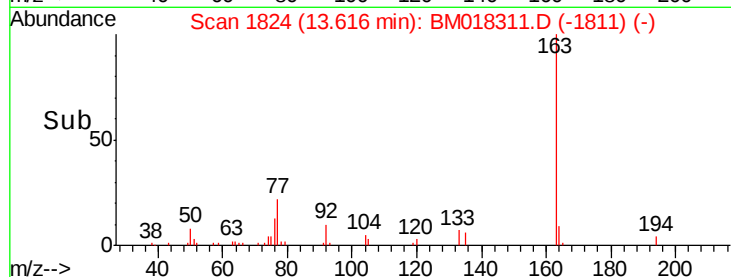
164 8.9 7.9 11.9



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



#52

Acenaphthene

Concen: 3.531 ng

RT: 14.21 min Scan# 1925

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

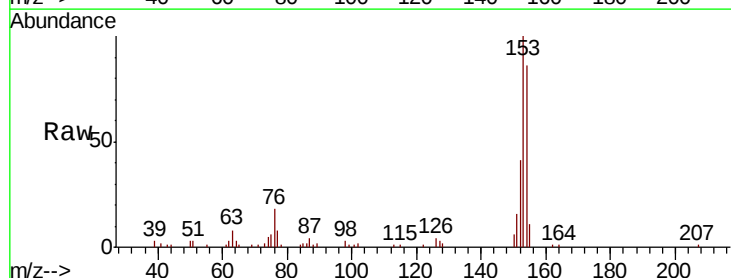
Tgt Ion:154 Resp: 48540

Ion Ratio Lower Upper

154 100

153 116.7 90.4 135.6

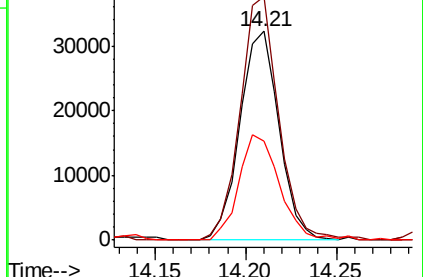
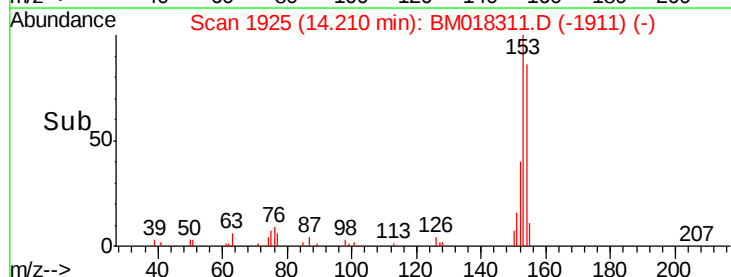
152 47.5 41.2 61.8

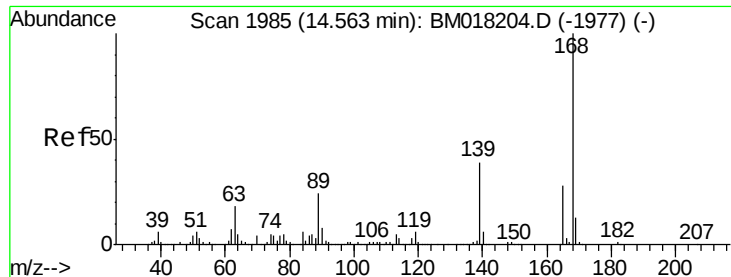


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

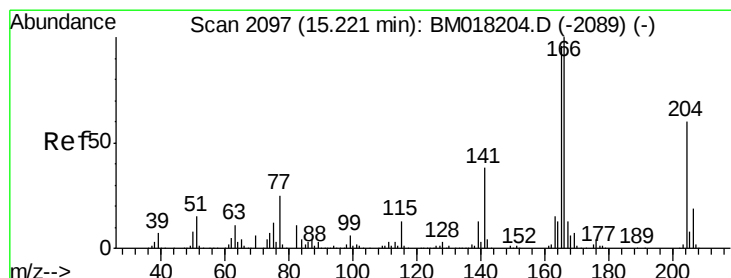
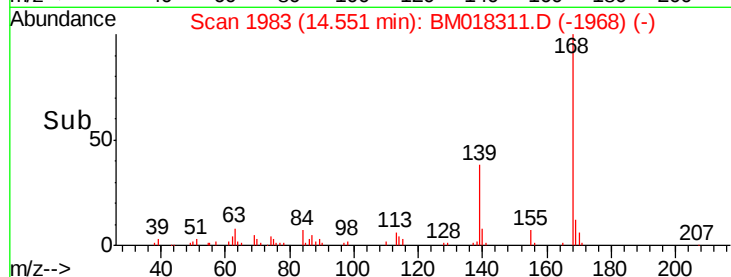
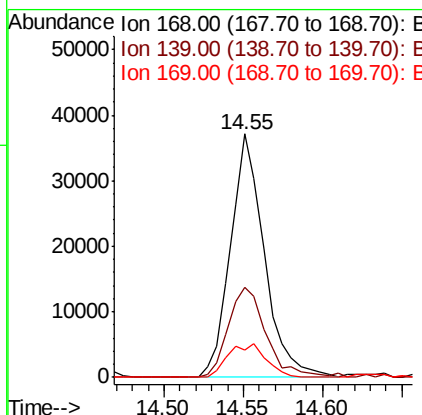
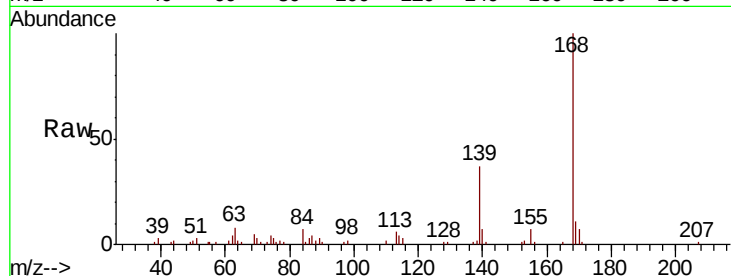




#55
Dibenzenofuran
Concen: 2.490 ng
RT: 14.55 min Scan# 1983
Delta R.T. -0.01 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

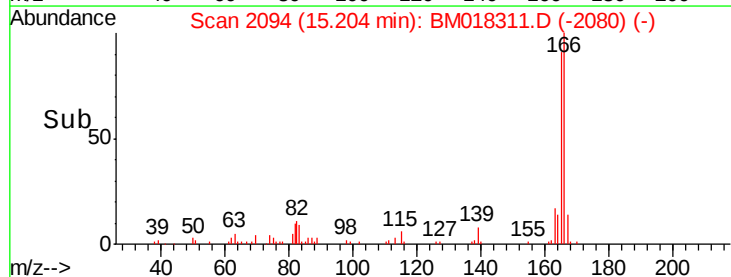
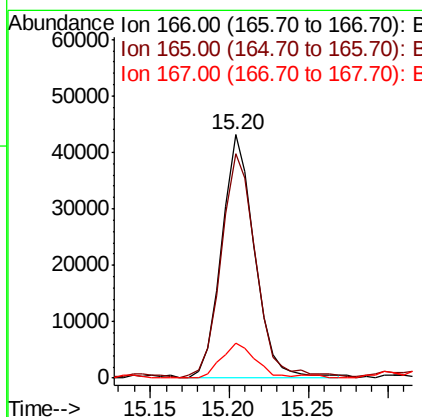
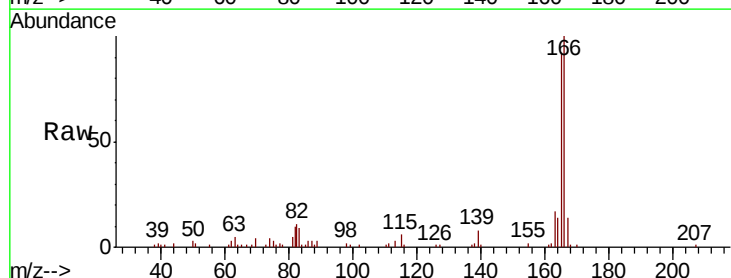
Instrument :
BNA_M
ClientSampleId :
EB06_1-3

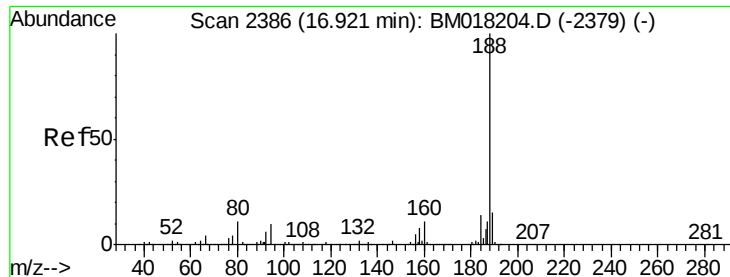
Tgt Ion:168 Resp: 54998
Ion Ratio Lower Upper
168 100
139 37.0 31.2 46.8
169 11.3 10.4 15.6



#58
Fluorene
Concen: 3.653 ng
RT: 15.20 min Scan# 2094
Delta R.T. -0.02 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

Tgt Ion:166 Resp: 62322
Ion Ratio Lower Upper
166 100
165 92.0 76.9 115.3
167 14.4 10.5 15.7

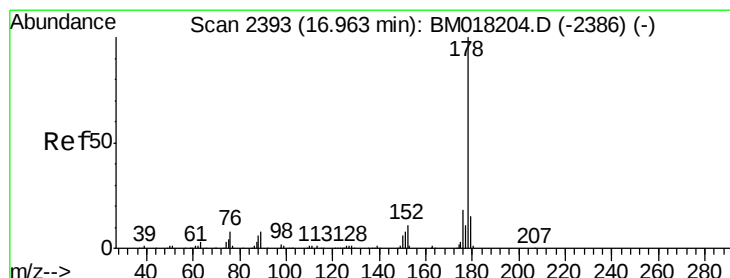
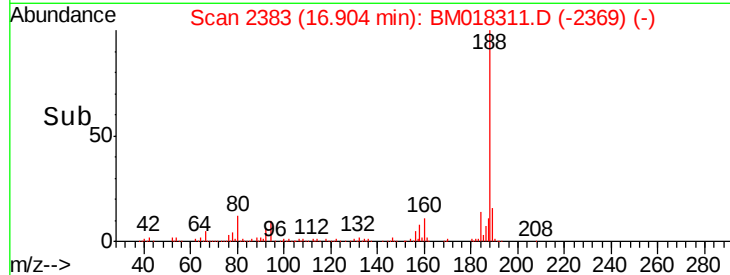
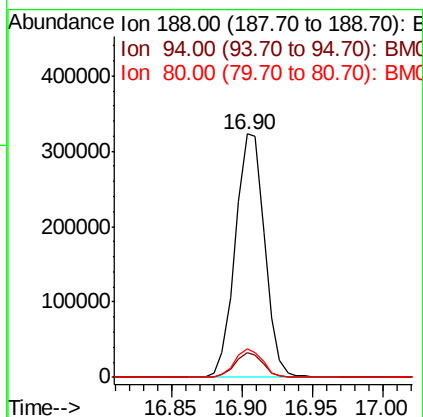
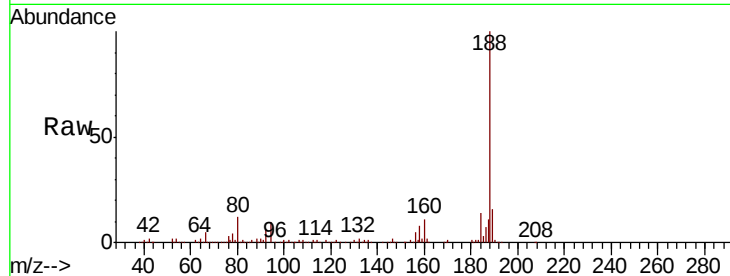




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.90 min Scan# 2383
Delta R.T. -0.02 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

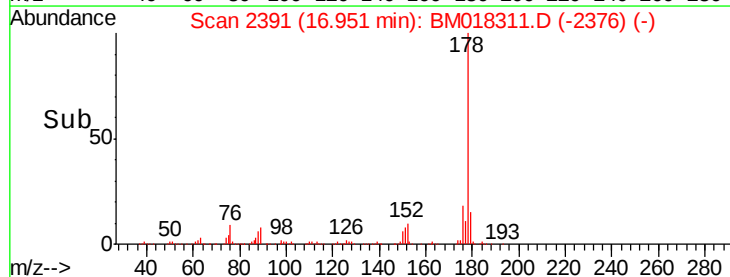
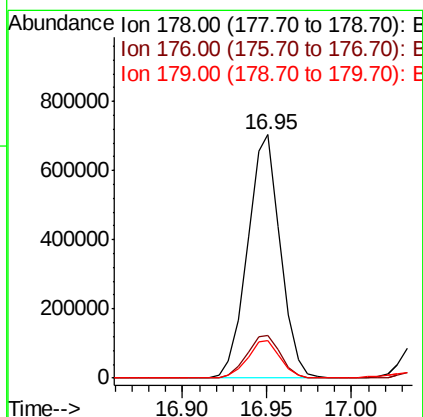
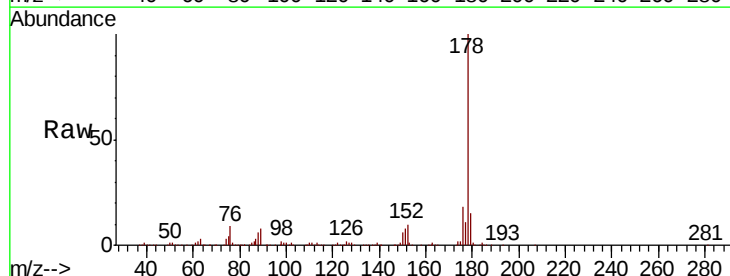
Instrument :
BNA_M
ClientSampleId :
EB06_1-3

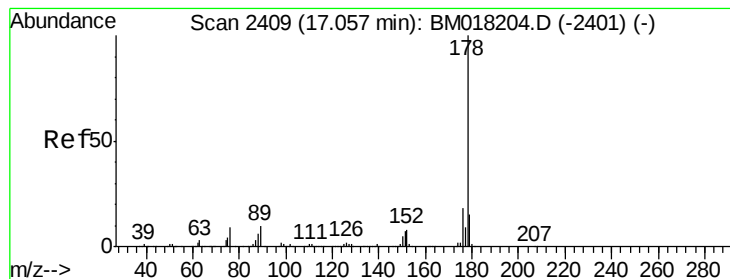
Tgt Ion:188 Resp: 468406
Ion Ratio Lower Upper
188 100
94 10.3 8.0 12.0
80 11.8 9.0 13.6



#71
Phenanthrene
Concen: 37.314 ng
RT: 16.95 min Scan# 2391
Delta R.T. -0.01 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

Tgt Ion:178 Resp: 949361
Ion Ratio Lower Upper
178 100
176 17.5 14.7 22.1
179 15.2 12.0 18.0





#72

Anthracene

Concen: 6.803 ng

RT: 17.04 min Scan# 2406

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

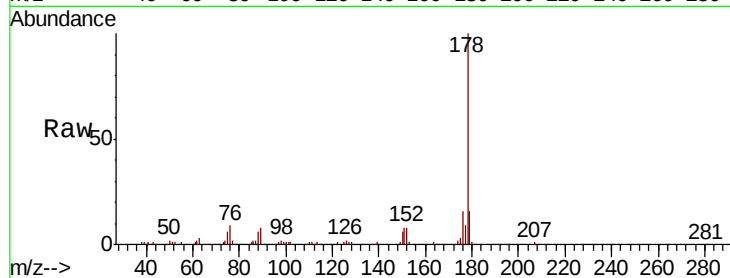
Tgt Ion:178 Resp: 171713

Ion Ratio Lower Upper

178 100

176 16.3 14.3 21.5

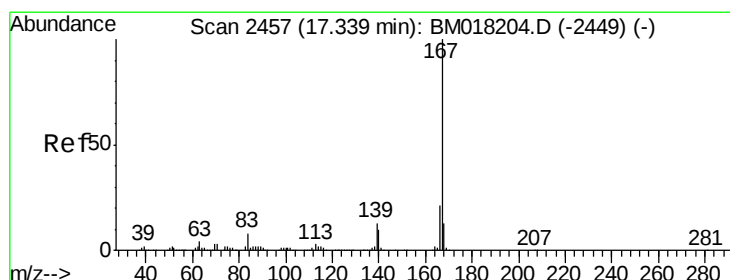
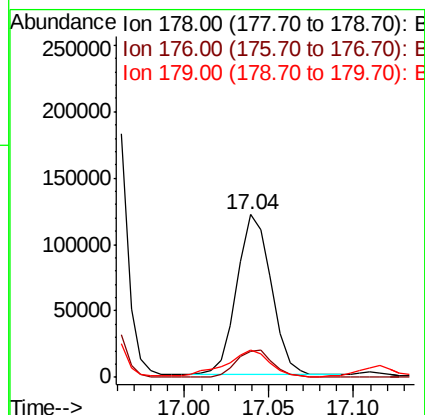
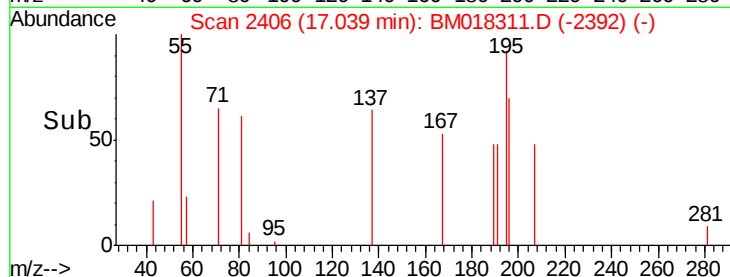
179 16.5 12.0 18.0



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



#73

Carbazole

Concen: 2.967 ng

RT: 17.33 min Scan# 2455

Delta R.T. -0.01 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

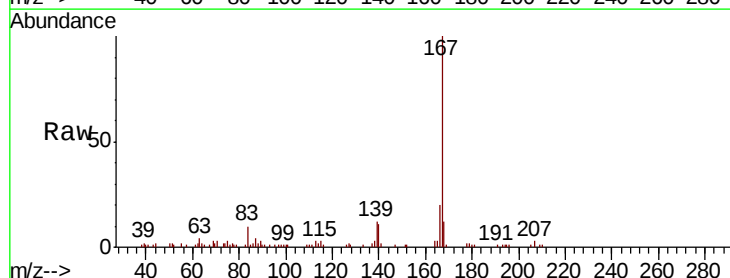
Tgt Ion:167 Resp: 76861

Ion Ratio Lower Upper

167 100

166 19.9 16.8 25.2

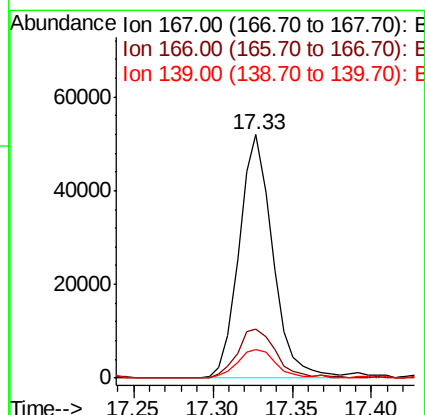
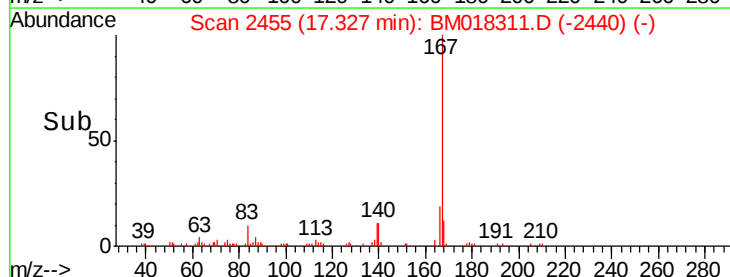
139 11.7 10.3 15.5

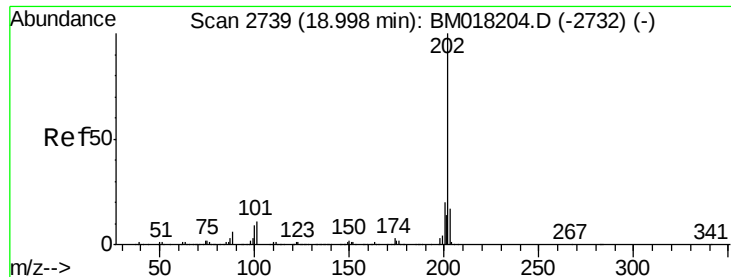


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 41.817 ng

RT: 18.98 min Scan# 2736

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

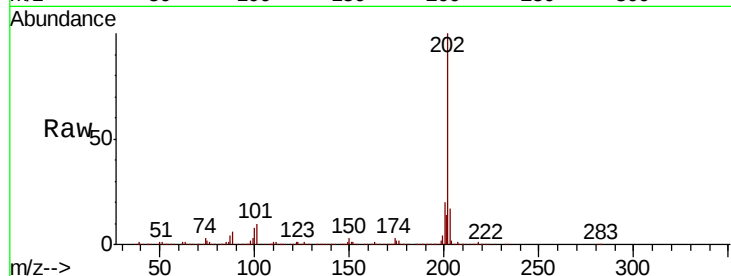
Tgt Ion:202 Resp: 1236972

Ion Ratio Lower Upper

202 100

101 10.3 0.0 30.5

203 17.1 0.0 37.5

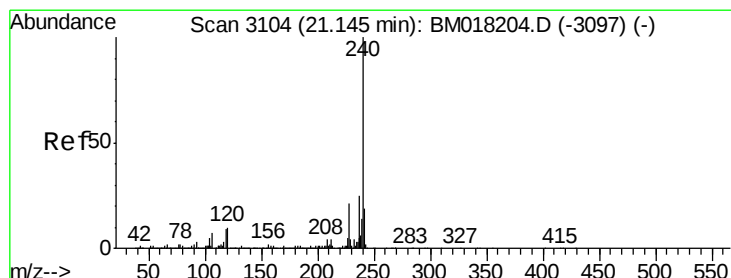
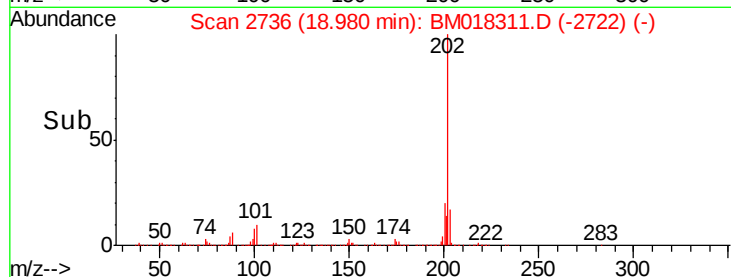
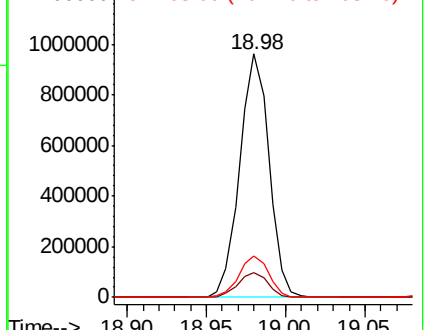


Abundance

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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.13 min Scan# 3101

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

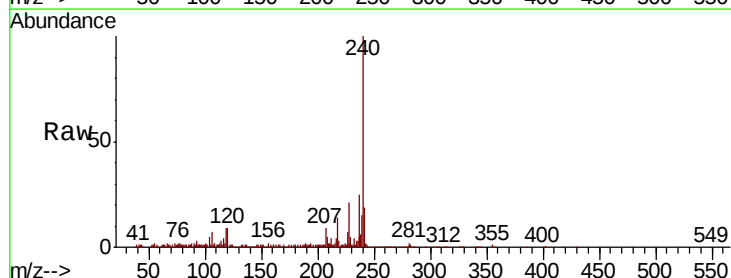
Tgt Ion:240 Resp: 509540

Ion Ratio Lower Upper

240 100

120 9.4 8.2 12.2

236 25.3 20.3 30.5

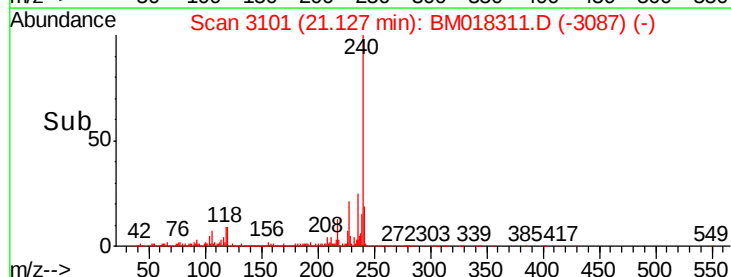
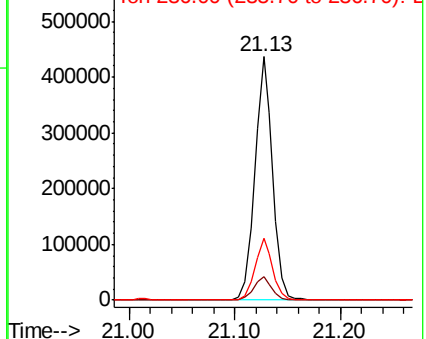


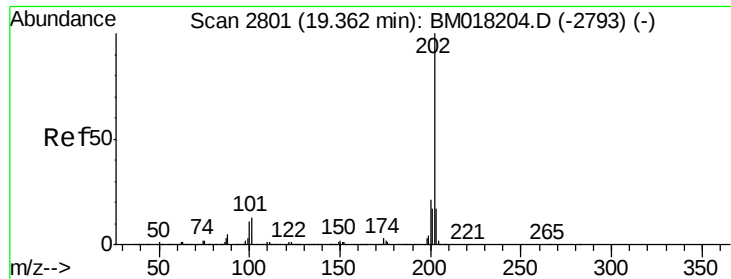
Abundance

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





#78

Pyrene

Concen: 34.178 ng

RT: 19.34 min Scan# 2798

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

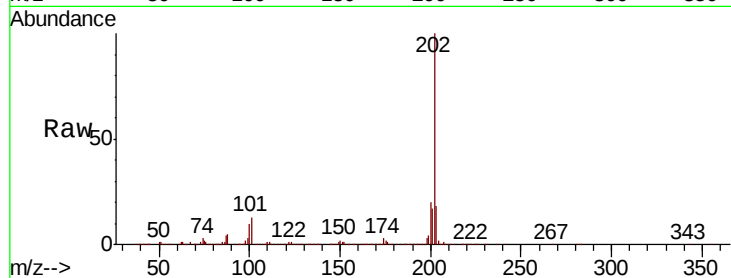
Tgt Ion:202 Resp: 1037687

Ion Ratio Lower Upper

202 100

200 20.4 16.5 24.7

203 18.1 14.0 21.0

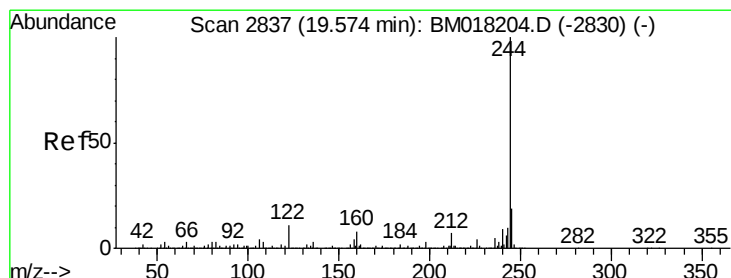
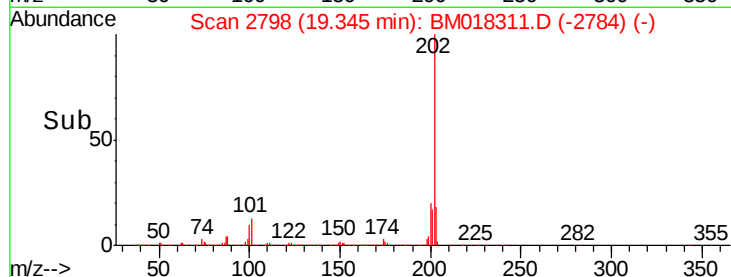
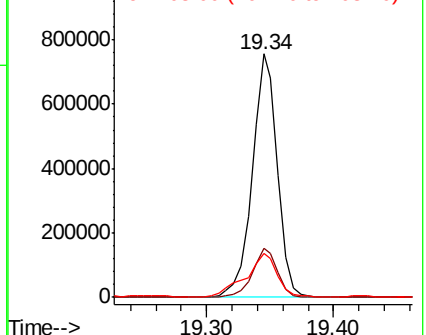


Abundance

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



#79

Terphenyl-d14

Concen: 37.292 ng

RT: 19.56 min Scan# 2835

Delta R.T. -0.01 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

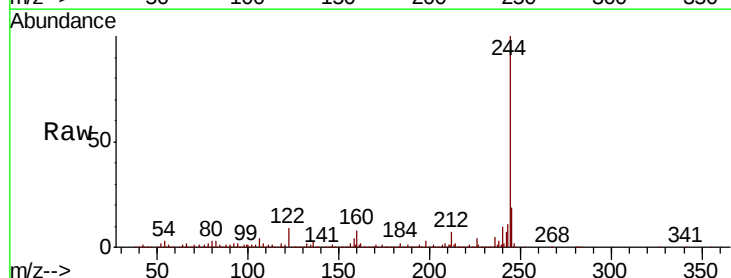
Tgt Ion:244 Resp: 840177

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

122 9.4 9.0 13.6

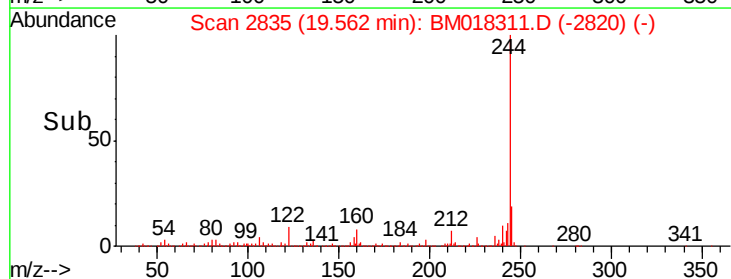
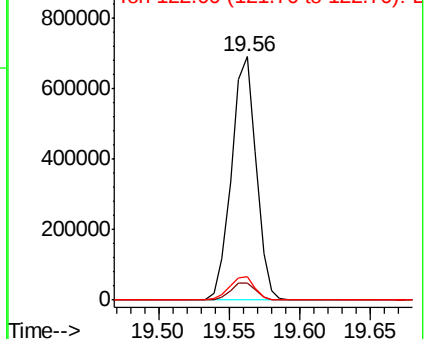


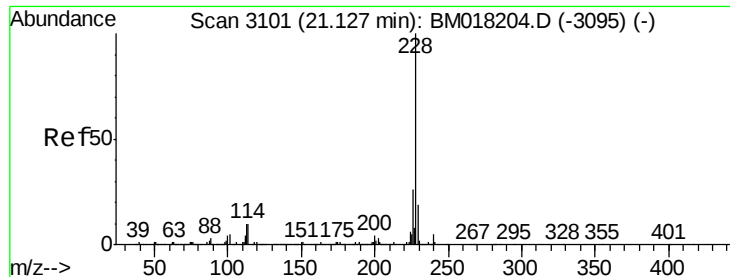
Abundance

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





#81

Benzo(a)anthracene

Concen: 19.248 ng

RT: 21.11 min Scan# 3098

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

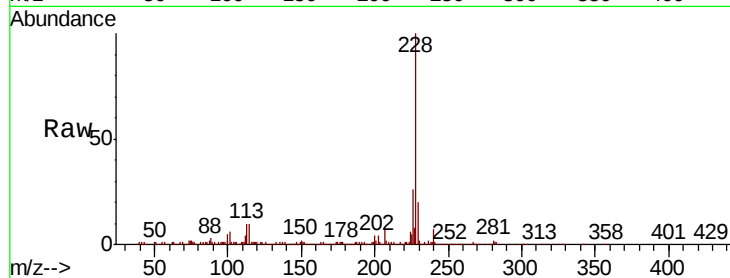
Tgt Ion:228 Resp: 572920

Ion Ratio Lower Upper

228 100

226 26.3 21.0 31.4

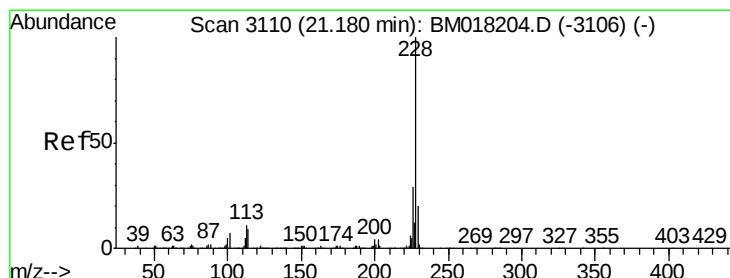
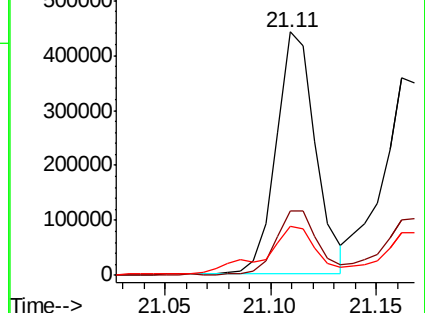
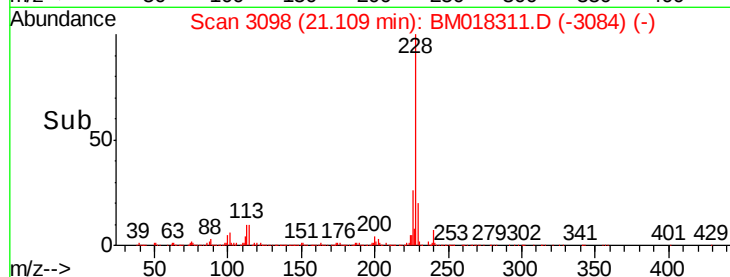
229 20.3 15.5 23.3



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



#83

Chrysene

Concen: 18.740 ng

RT: 21.16 min Scan# 3107

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

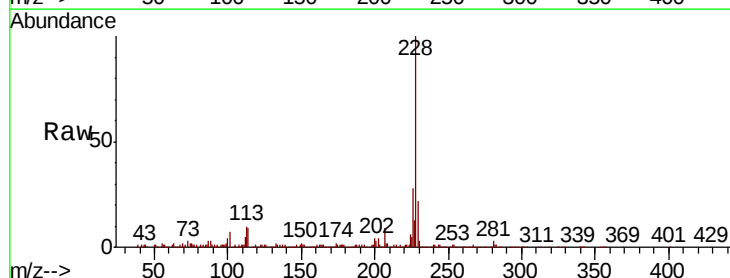
Tgt Ion:228 Resp: 536527

Ion Ratio Lower Upper

228 100

226 28.3 23.1 34.7

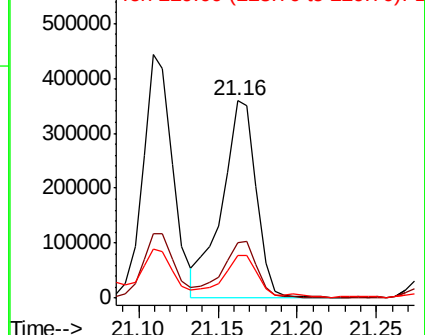
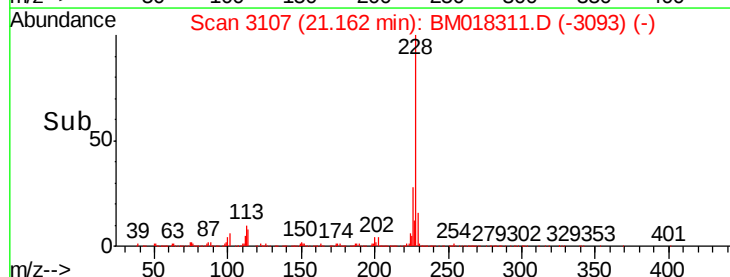
229 21.5 15.8 23.6

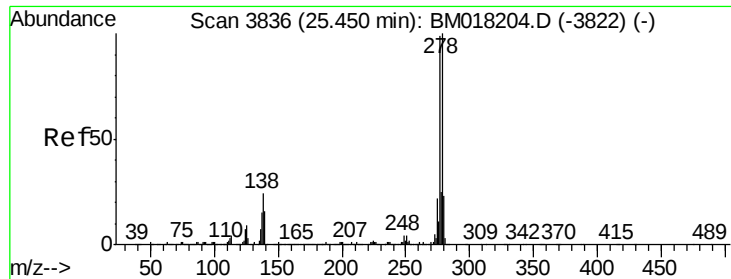


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 12.845 ng

RT: 25.41 min Scan# 3830

Delta R.T. -0.04 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

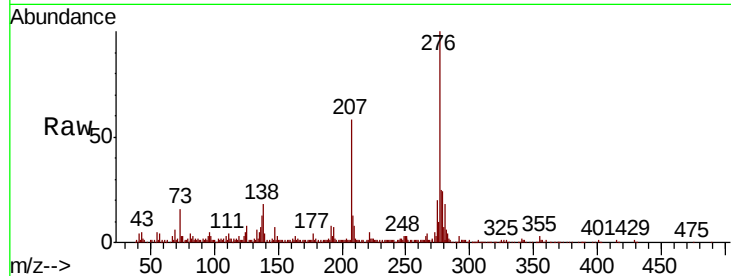
Tgt Ion:276 Resp: 366307

Ion Ratio Lower Upper

276 100

138 18.5 18.6 28.0#

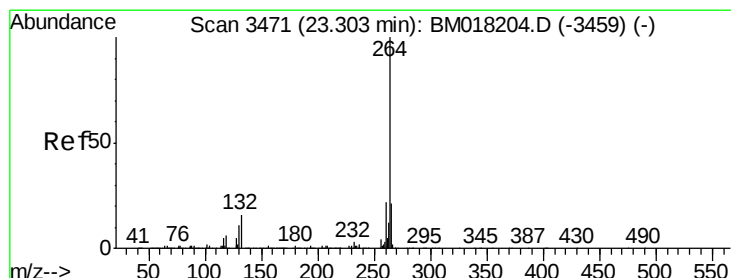
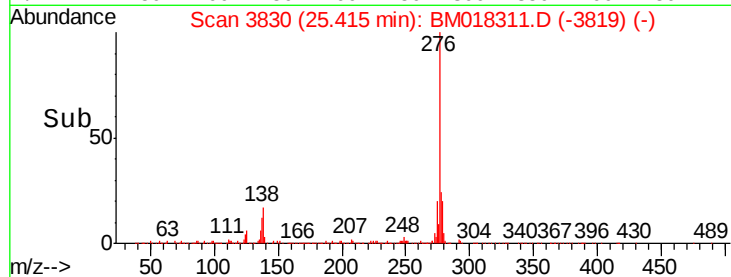
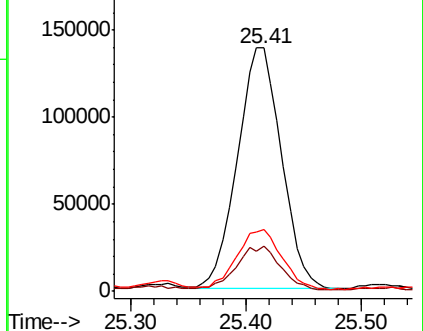
277 25.1 20.3 30.5



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 23.29 min Scan# 3468

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

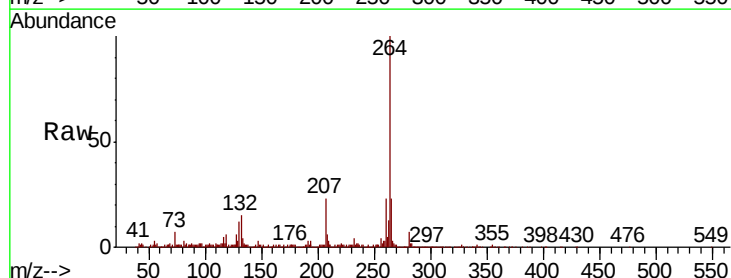
Tgt Ion:264 Resp: 567874

Ion Ratio Lower Upper

264 100

260 23.1 17.5 26.3

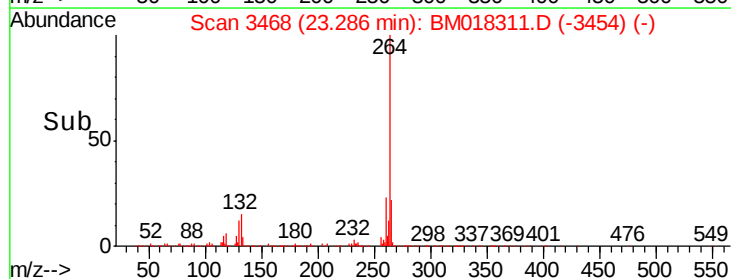
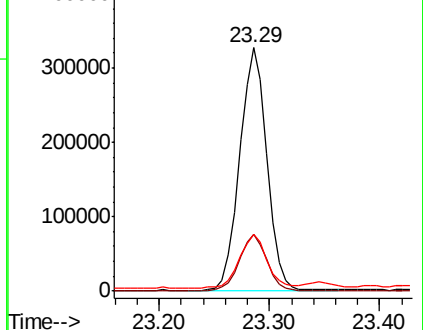
265 23.3 17.3 25.9

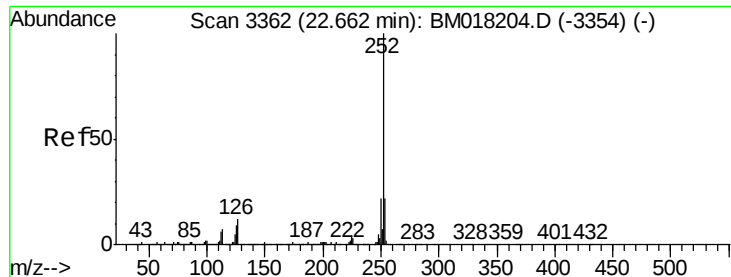


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

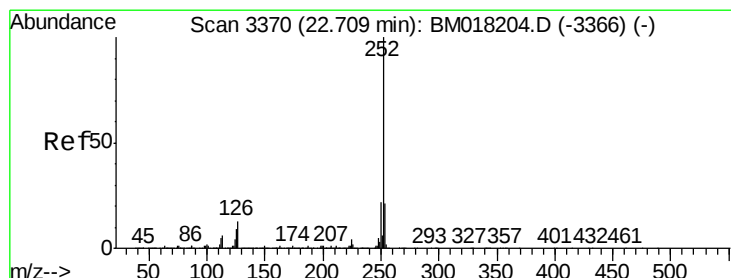
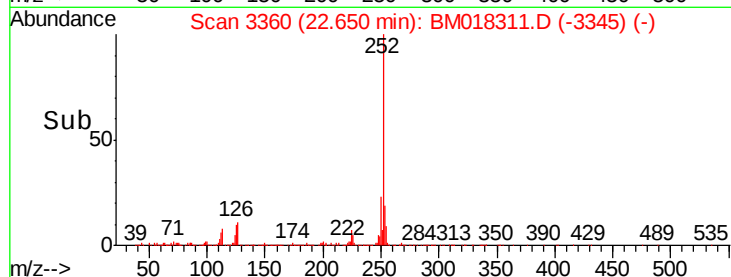
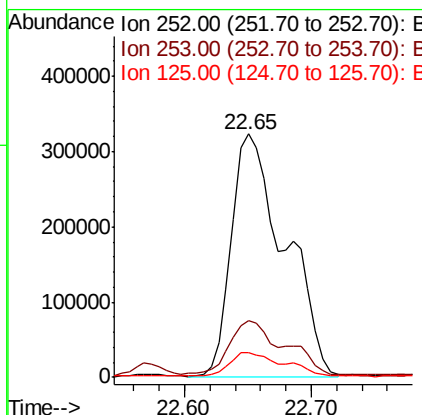
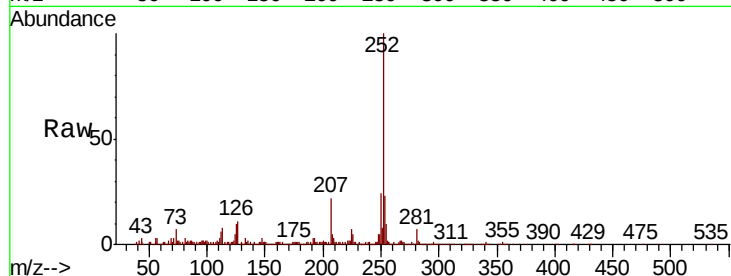




#88
Benzo(b)fluoranthene
Concen: 29.592 ng
RT: 22.65 min Scan# 3360
Delta R.T. -0.01 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

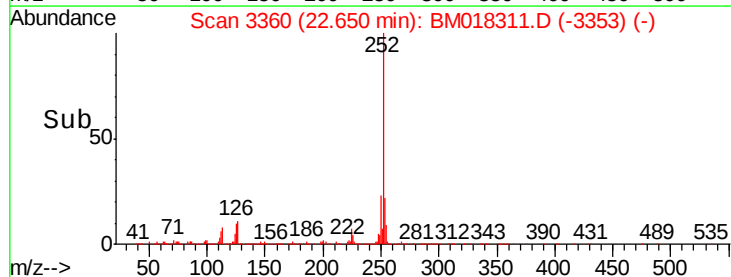
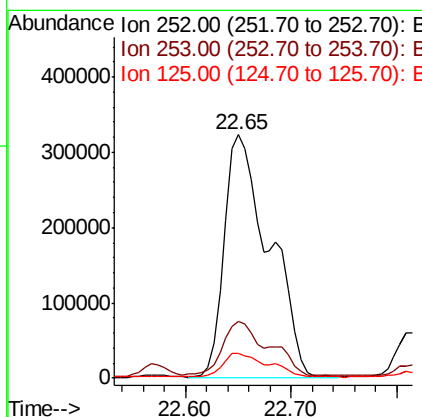
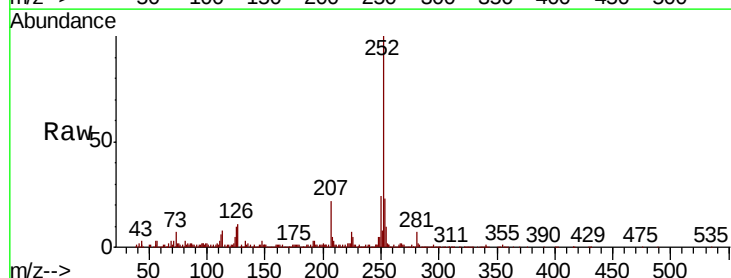
Instrument :
BNA_M
ClientSampleId :
EB06_1-3

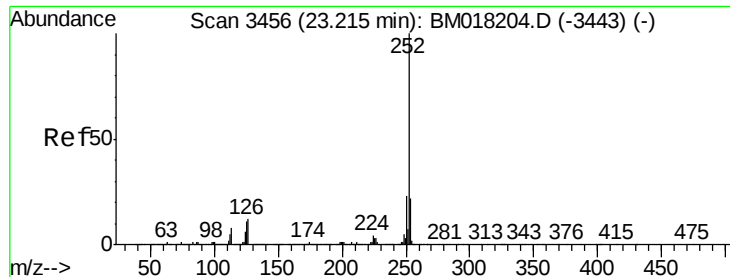
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	10.4	7.4	11.0



#89
Benzo(k)fluoranthene
Concen: 29.771 ng
RT: 22.65 min Scan# 3360
Delta R.T. -0.06 min
Lab File: BM018311.D
Acq: 20 Dec 2018 00:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	16.9	25.3
125	10.4	7.5	11.3





#90

Benzo(a)pyrene

Concen: 17.072 ng

RT: 23.19 min Scan# 3452

Delta R.T. -0.02 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

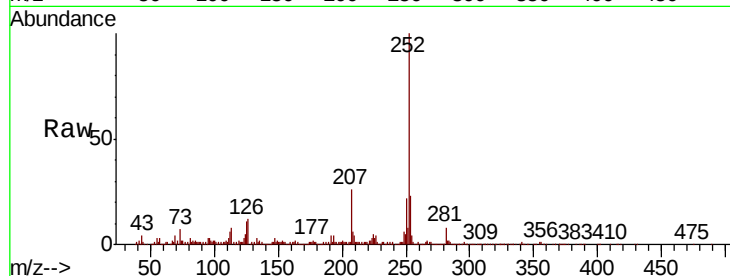
Tgt Ion:252 Resp: 517936

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

125 10.6 8.6 12.8

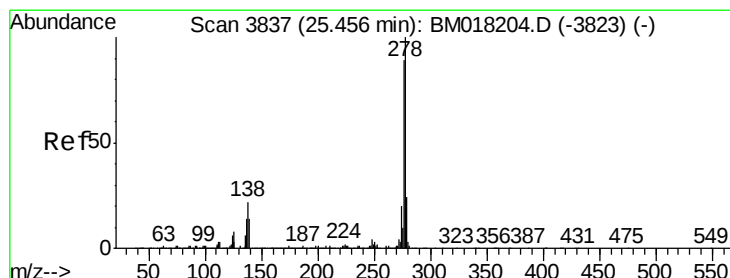
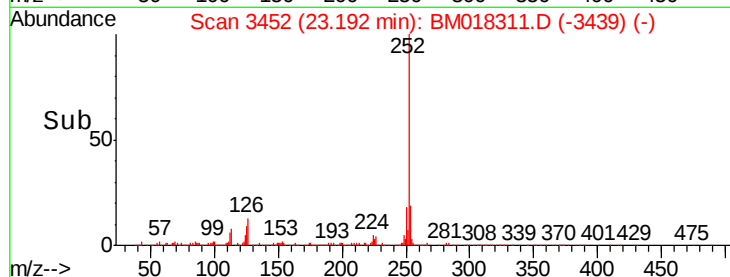
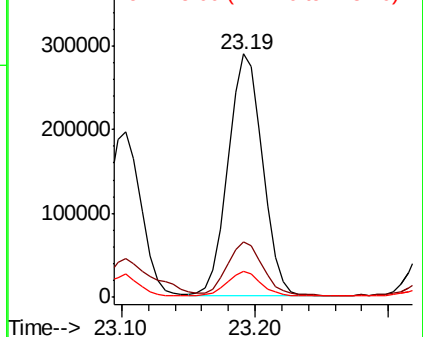


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 3.565 ng

RT: 25.41 min Scan# 3830

Delta R.T. -0.04 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

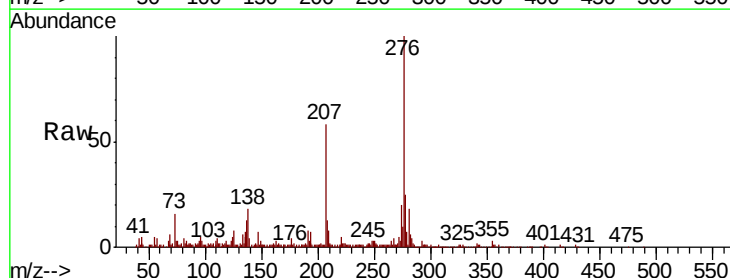
Tgt Ion:278 Resp: 100198

Ion Ratio Lower Upper

278 100

139 17.2 11.6 17.4

279 30.6 19.2 28.8#

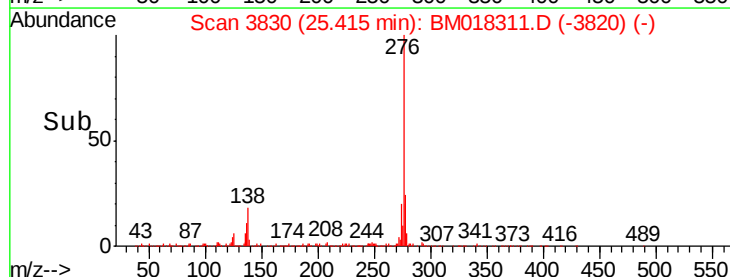
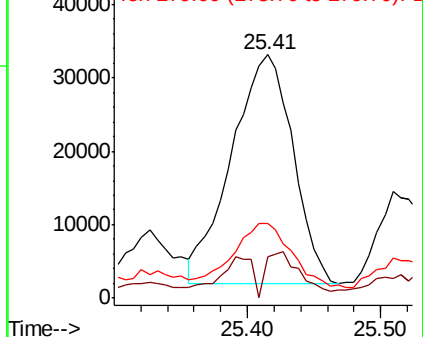


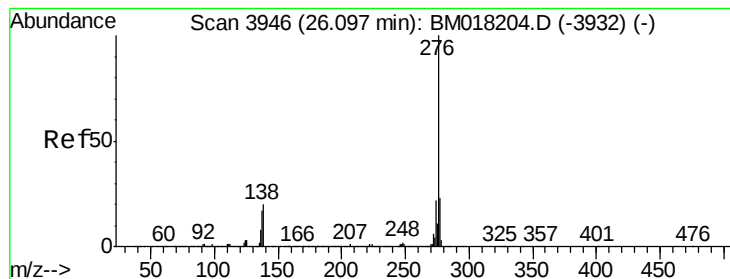
Abundance

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





#92

Benzo(g,h,i)perylene

Concen: 13.175 ng

RT: 26.06 min Scan# 3940

Delta R.T. -0.04 min

Lab File: BM018311.D

Acq: 20 Dec 2018 00:01

Instrument :

BNA_M

ClientSampleId :

EB06_1-3

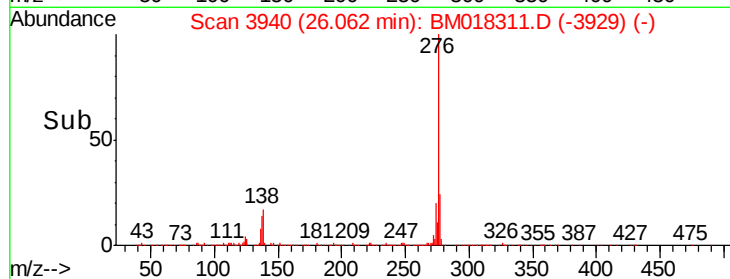
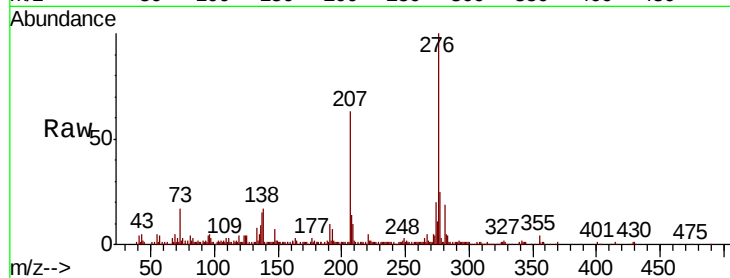
Tgt Ion: 276 Resp: 350010

Ion Ratio Lower Upper

276 100

277 24.7 18.7 28.1

138 17.5 15.8 23.8



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

