

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012718\
 Data File : BM013915.D
 Acq On : 28 Jan 2018 10:19
 Operator : SJ/JU
 Sample : J1223-10ME
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Jan 29 03:15:29 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jan 29 03:14:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	108608	20.00	ng/ul	0.00
18) Naphthalene-d8	10.35	136	434328	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.23	164	271830	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	599282	20.00	ng/ul	0.00
75) Chrysene-d12	21.19	240	653813	20.00	ng/ul	0.00
83) Perylene-d12	23.37	264	685715	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.15	96	8552	3.11	ng/uL	0.00
5) Phenol-d5	6.77	99	163887	19.66	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	109733	21.72	ng/ul	0.00
9) 2-Chlorophenol-d4	7.12	132	139834	20.58	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	130073	20.29	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	74095	21.99	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	80342	22.56	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	144188	20.96	ng/ul	0.00
29) 4-Chloroaniline-d4	10.51	131	154709	25.92	ng/ul	0.00
43) Dimethylphthalate-d6	13.65	166	451618	20.16	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	583477	20.42	ng/ul	0.00
51) 4-Nitrophenol-d4	14.48	143	48001	13.18	ng/ul	0.01
57) Fluorene-d10	15.23	176	410107	20.82	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.38	200	49867	13.82	ng/ul	0.00
70) Anthracene-d10	17.09	188	630244	21.59	ng/ul	0.00
76) Pyrene-d10	19.39	212	722989	23.75	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.24	264	738523	23.43	ng/ul	0.00

Target Compounds

					Ovalue	
8) Bis(2-Chloroethyl)ether	7.01	93	60300	9.215	ng/ul#	28
17) Hexachloroethane	8.67	117	8648	2.624	ng/ul#	1
24) 2,4-Dimethylphenol	9.56	107	9398	1.201	ng/ul#	48
28) Naphthalene	10.40	128	2973271	137.602	ng/ul	99
30) 4-Chloroaniline	10.40	127	388972	65.722	ng/ul#	26
32) Caprolactam	11.37	113	46685	25.312	ng/ul	86
34) 2-Methylnaphthalene	12.03	142	1705820	105.886	ng/ul	94
40) 1,1'-Biphenyl	13.06	154	641264	28.341	ng/ul	97
44) Dimethylphthalate	13.70	163	47495	2.156	ng/ul	98
47) Acenaphthylene	13.95	152	39161	1.498	ng/ul#	69
49) Acenaphthene	14.30	153	2500037	138.096	ng/ul	98
53) Dibenzofuran	14.64	168	2270564	83.370	ng/ul	100
55) 2,3,4,6-Tetrachlorophenol	14.87	232	26888	4.712	ng/ul#	86
58) Fluorene	15.29	166	1867515	83.710	ng/ul	98
64) N-Nitrosodiphenylamine	15.50	169	37628	2.135	ng/ul#	86
67) Atrazine	16.64	200	68753	9.774	ng/ul#	42
68) Pentachlorophenol	16.64	266	453451	112.000	ng/ul	98
69) Phenanthrene	17.04	178	8642088	259.431	ng/ul	99
71) Anthracene	17.12	178	1094587	31.857	ng/ul	99
72) Carbazole	17.40	167	250369	8.828	ng/ul	99
74) Fluoranthene	19.06	202	4778210	120.166	ng/ul#	96
77) Pyrene	19.42	202	3240990	81.540	ng/ul#	95
80) Benzo(a)anthracene	21.17	228	553252	14.004	ng/ul	98

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Quant Title : SVOA CALIBRATION
QLast Update : Mon Jan 29 03:14:13 2018
Response via : Initial Calibration

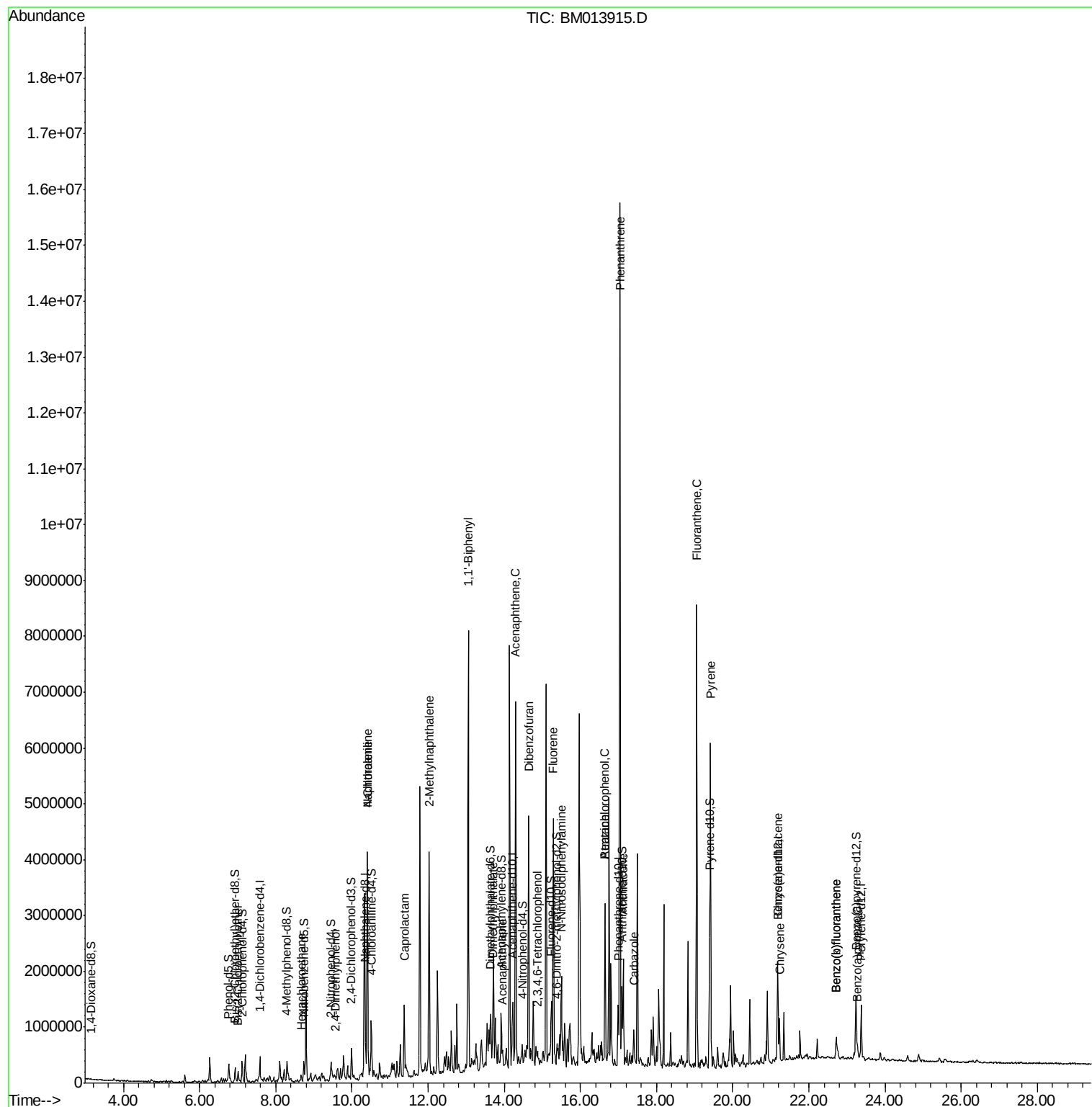
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Chrysene	21.23	228	449251	12.396	ng/ul	98
85) Benzo(b)fluoranthene	22.72	252	204413	4.854	ng/ul#	97
86) Benzo(k)fluoranthene	22.72	252	204413	5.022	ng/ul#	99
88) Benzo(a)pyrene	23.28	252	111058	2.792	ng/ul#	95

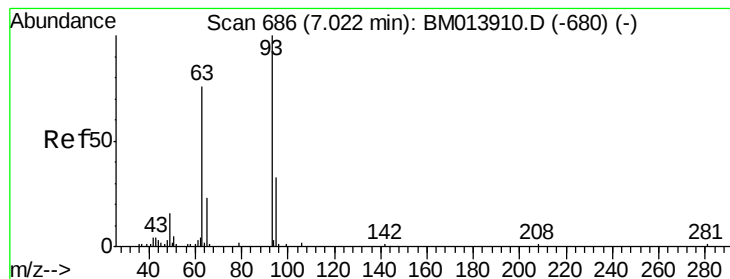
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Bis(2-Chloroethyl)ether

Concen: 9.215 ng/ul

RT: 7.01 min Scan# 684

Delta R.T. -0.01 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

Instrument :

BNA_M

ClientSampleId :

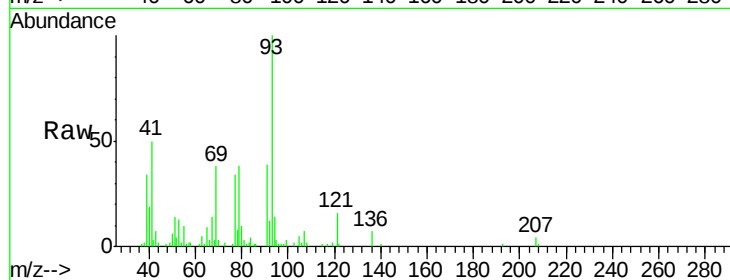
Tot Ion: 93 Resp: 60300

Ion Ratio Lower Upper

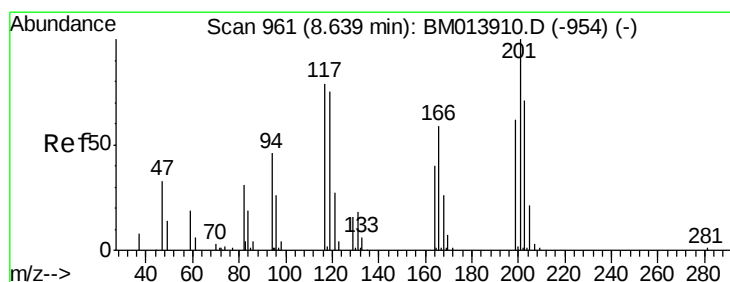
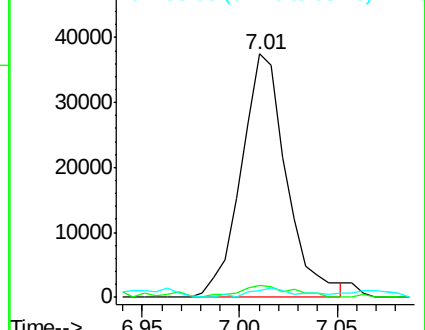
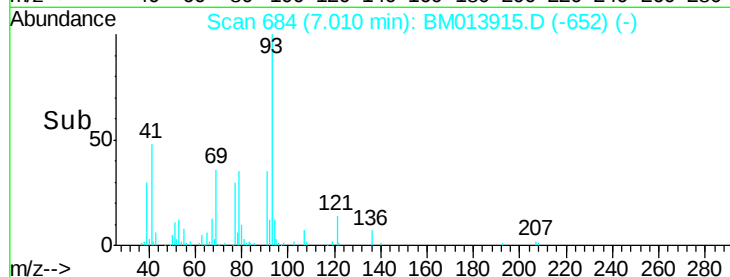
93 100

63 4.7 57.3 85.9#

95 2.7 26.6 39.8#



Abundance Ion 93.00 (92.70 to 93.70): BM013915.D (-652) (-)



#17

Hexachloroethane

Concen: 2.624 ng/ul

RT: 8.67 min Scan# 966

Delta R.T. 0.03 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

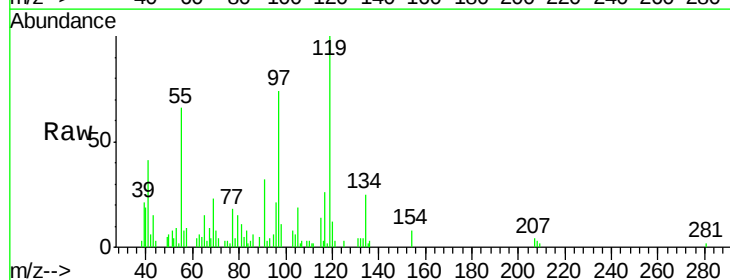
Tgt Ion: 117 Resp: 8648

Ion Ratio Lower Upper

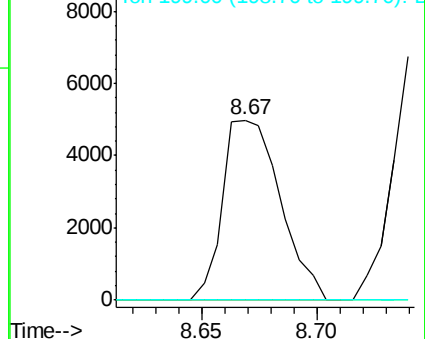
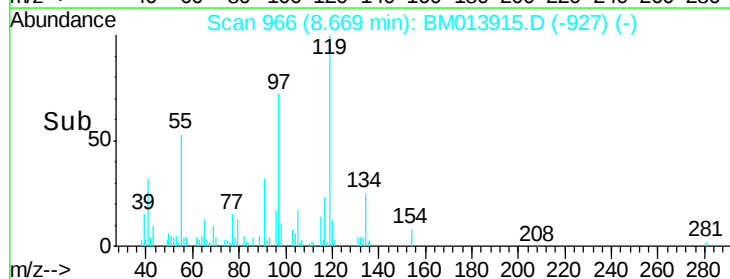
117 100

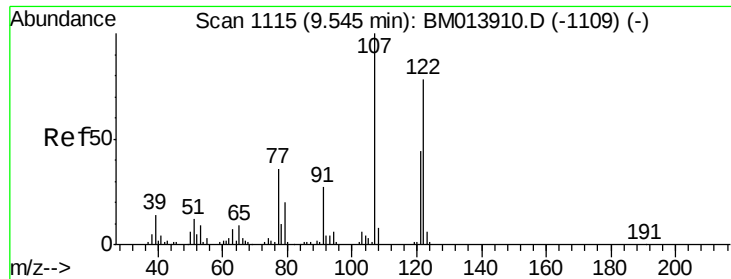
201 0.0 111.6 167.4#

199 0.0 67.8 101.6#



Abundance Ion 117.00 (116.70 to 117.70): BM013915.D (-927) (-)





#24

2,4-Dimethylphenol

Concen: 1.201 ng/ul

RT: 9.56 min Scan# 1117

Delta R.T. 0.01 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

Instrument :

BNA_M

ClientSampleId :

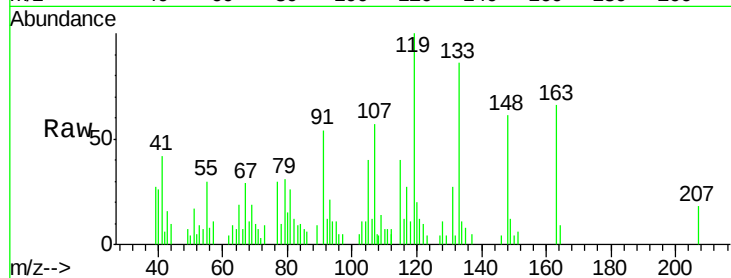
Tot Ion:107 Resp: 9398

Ion Ratio Lower Upper

107 100

121 21.2 31.9 47.9#

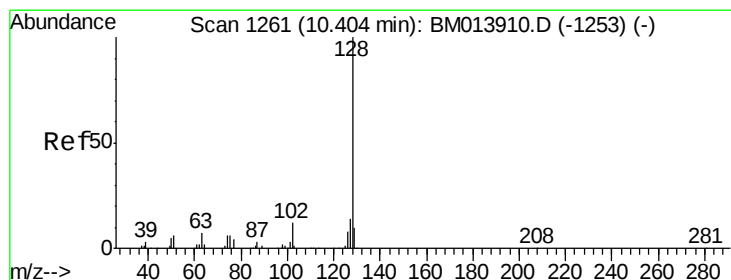
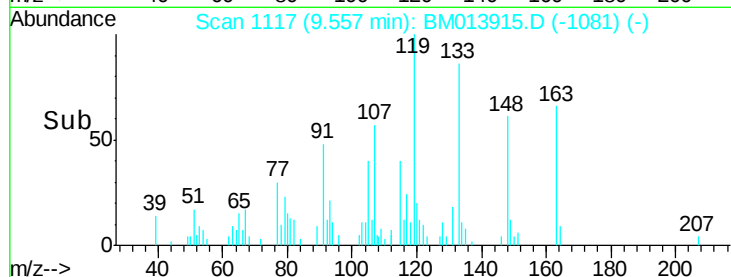
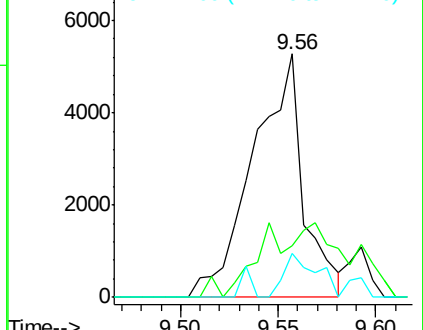
122 18.2 57.8 86.6#



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

Ion 122.00 (121.70 to 122.70): E



#28

Naphthalene

Concen: 137.602 ng/ul

RT: 10.40 min Scan# 1261

Delta R.T. 0.00 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

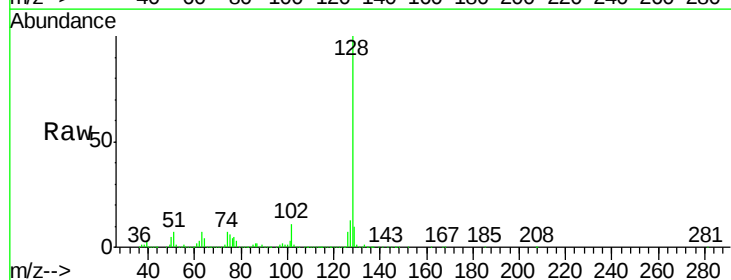
Tgt Ion:128 Resp: 2973271

Ion Ratio Lower Upper

128 100

129 10.2 8.8 13.2

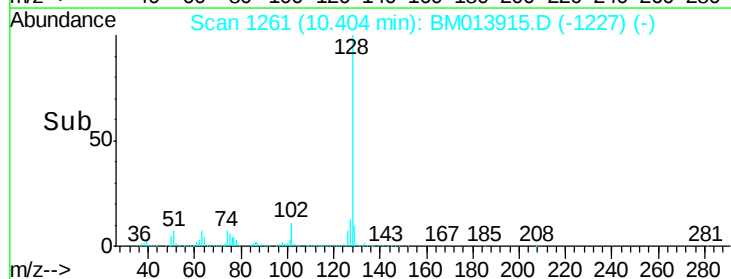
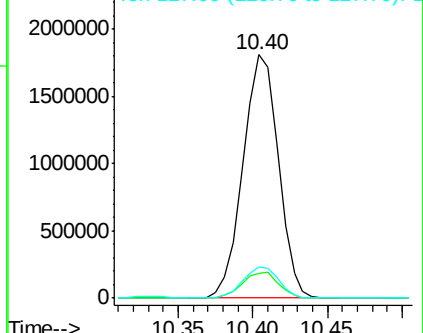
127 13.0 10.6 16.0

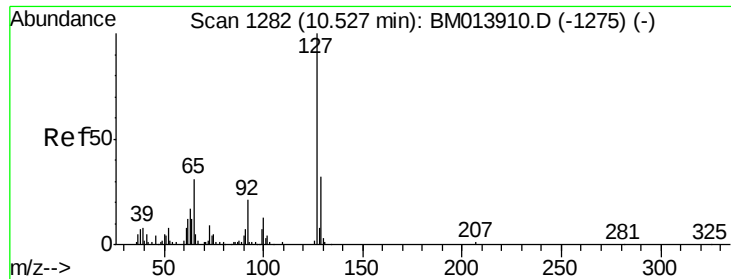


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

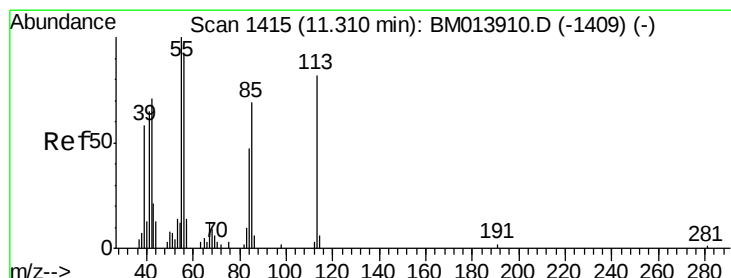
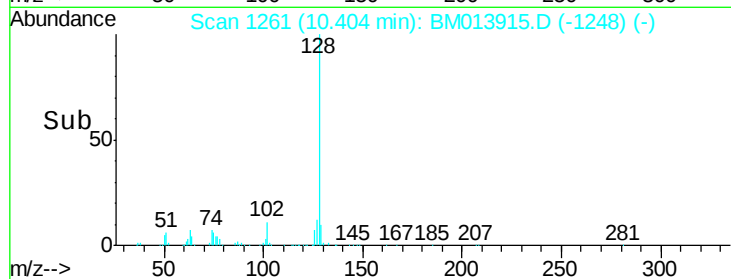
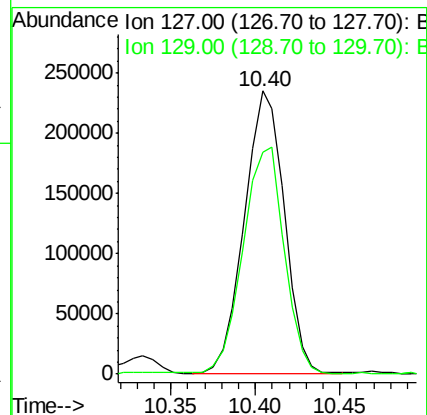
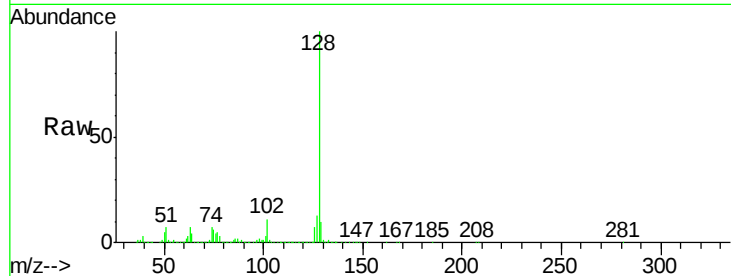




#30
4-Chloroaniline
Concen: 65.722 ng/ul
RT: 10.40 min Scan# 1261
Delta R.T. -0.12 min
Lab File: BM013915.D
Acq: 28 Jan 2018 10:19

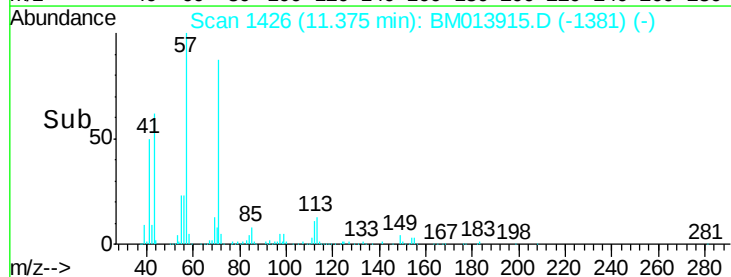
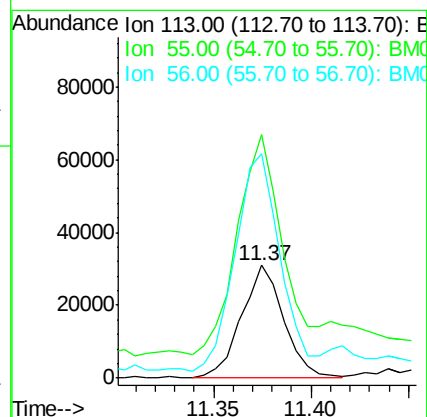
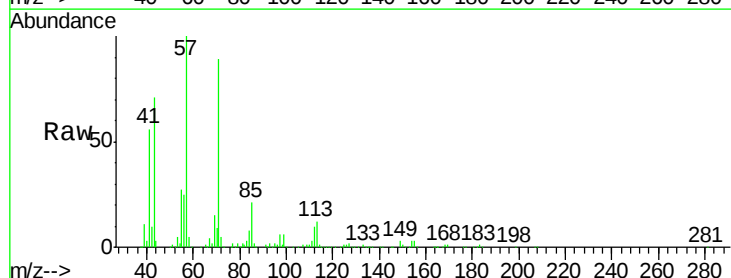
Instrument :
BNA_M
ClientSampleId :

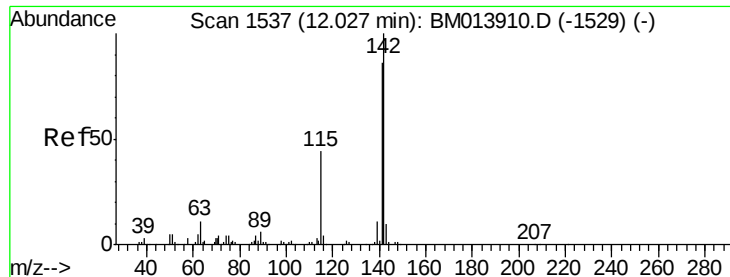
Tot Ion:127 Resp: 388972
Ion Ratio Lower Upper
127 100
129 78.6 28.4 42.6#



#32
Caprolactam
Concen: 25.312 ng/ul
RT: 11.37 min Scan# 1426
Delta R.T. 0.06 min
Lab File: BM013915.D
Acq: 28 Jan 2018 10:19

Tgt Ion:113 Resp: 46685
Ion Ratio Lower Upper
113 100
55 215.6 208.0 312.0
56 198.5 160.0 240.0

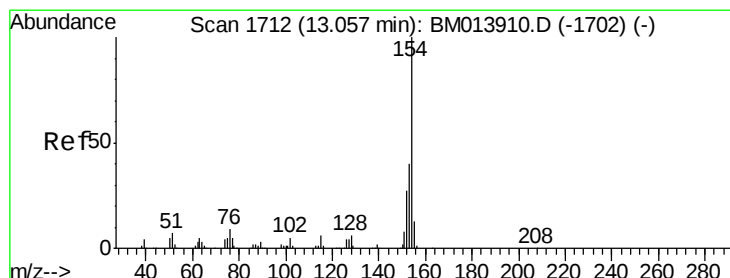
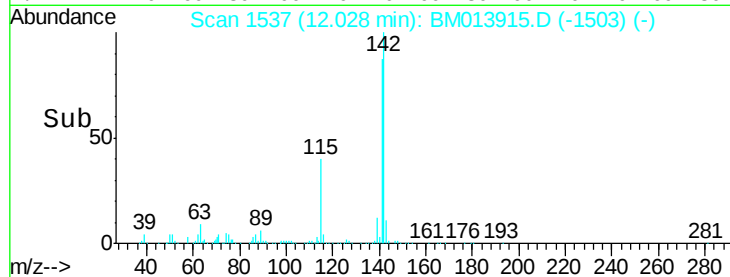
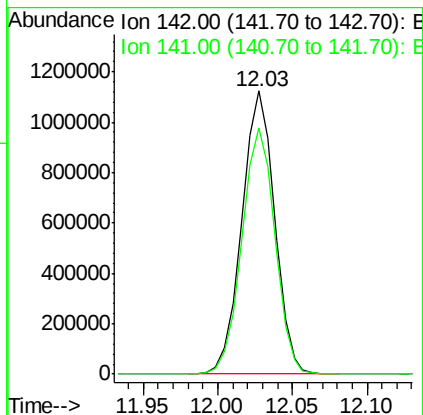
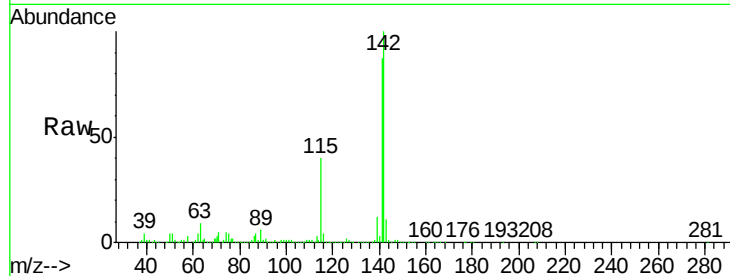




#34
 2-Methylnaphthalene
 Concen: 105.886 ng/ul
 RT: 12.03 min Scan# 1537
 Delta R.T. 0.00 min
 Lab File: BM013915.D
 Acq: 28 Jan 2018 10:19

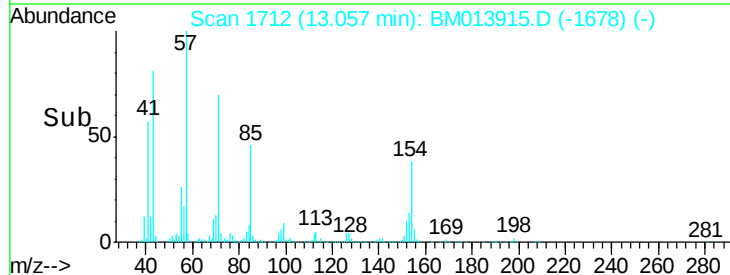
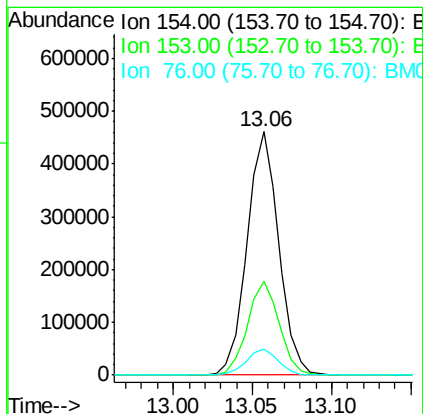
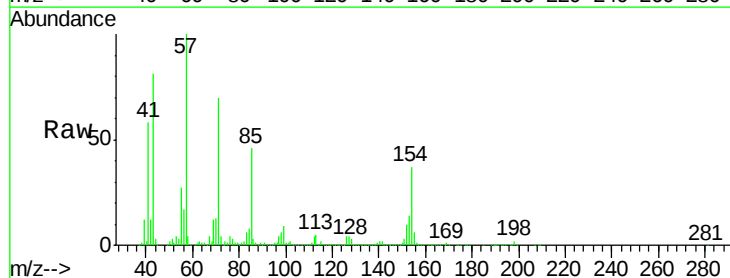
Instrument :
 BNA_M
 ClientSampleId :

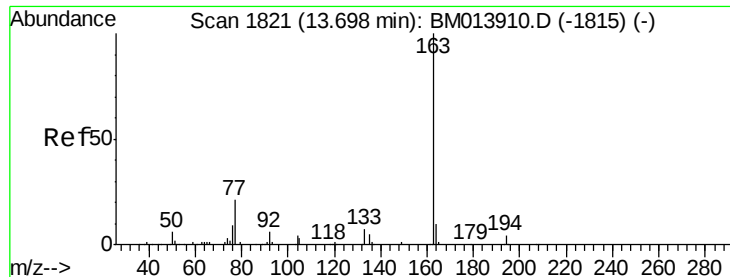
Tot Ion:142 Resp: 1705820
 Ion Ratio Lower Upper
 142 100
 141 86.9 74.1 111.1



#40
 1,1'-Biphenyl
 Concen: 28.341 ng/ul
 RT: 13.06 min Scan# 1712
 Delta R.T. 0.00 min
 Lab File: BM013915.D
 Acq: 28 Jan 2018 10:19

Tgt Ion:154 Resp: 641264
 Ion Ratio Lower Upper
 154 100
 153 38.4 32.6 48.8
 76 10.9 8.5 12.7

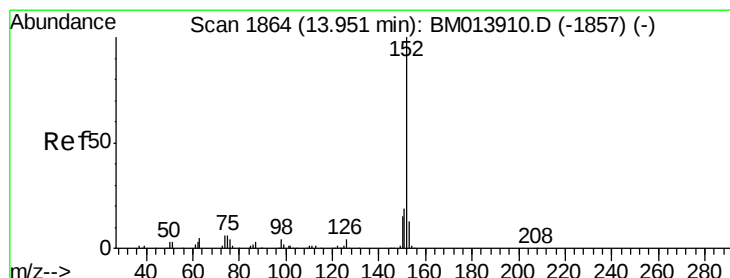
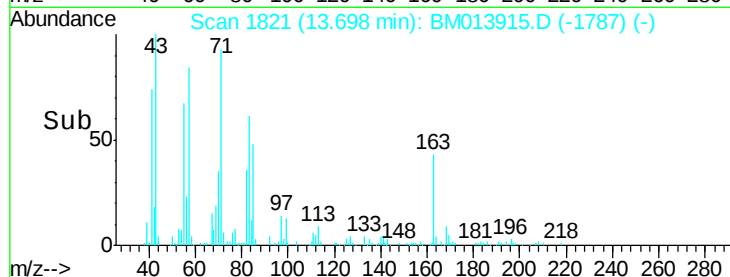
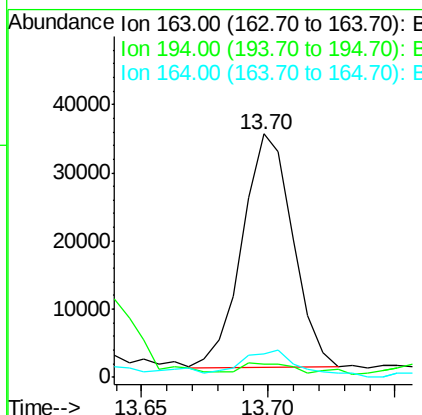
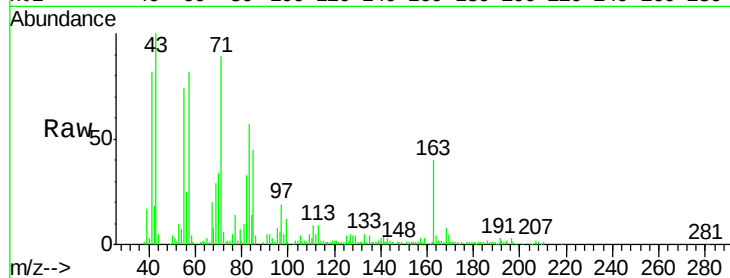




#44
Dimethylphthalate
Concen: 2.156 ng/ul
RT: 13.70 min Scan# 1821
Delta R.T. 0.00 min
Lab File: BM013915.D
Acq: 28 Jan 2018 10:19

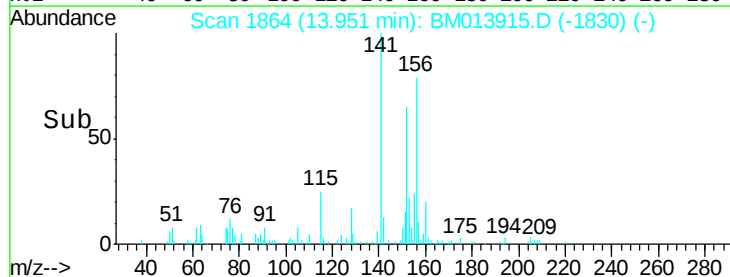
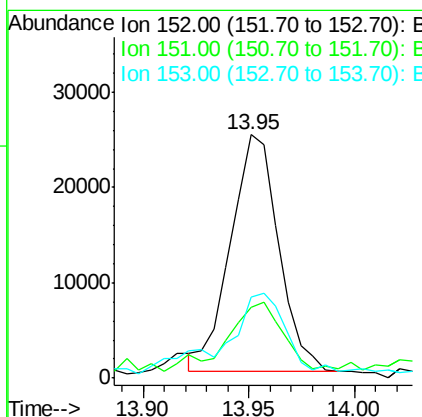
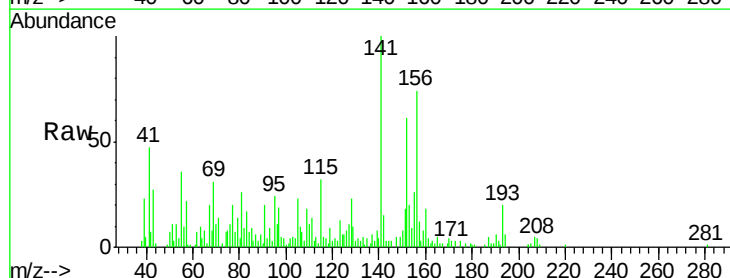
Instrument :
BNA_M
ClientSampleId :

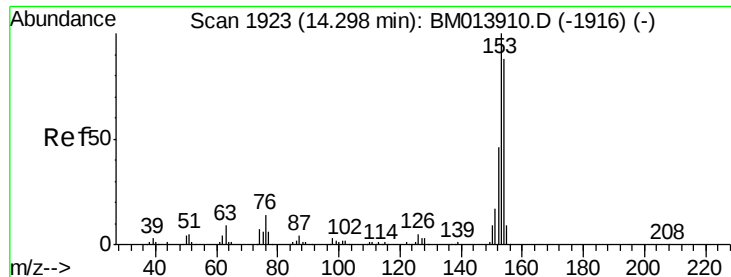
Tot Ion	Ratio	Lower	Upper
163	100		
194	5.3	3.5	5.3
164	9.6	8.2	12.4



#47
Acenaphthylene
Concen: 1.498 ng/ul
RT: 13.95 min Scan# 1864
Delta R.T. 0.00 min
Lab File: BM013915.D
Acq: 28 Jan 2018 10:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	28.9	16.3	24.5#
153	33.3	10.2	15.4#





#49

Acenaphthene

Concen: 138.096 ng/ul

RT: 14.30 min Scan# 1923

Delta R.T. 0.00 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

Instrument :

BNA_M

ClientSampleId :

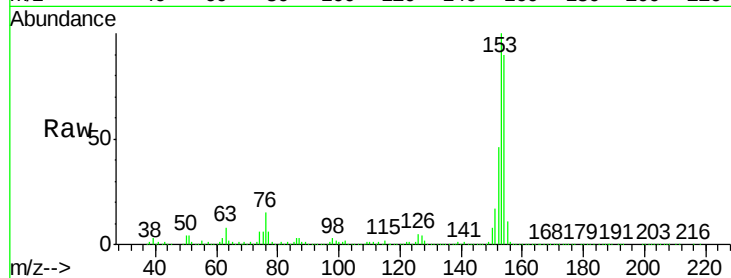
Tot Ion:153 Resp: 2500037

Ion	Ratio	Lower	Upper
153	100		
152	46.4	37.6	56.4
154	90.1	70.4	105.6

153 100

152 46.4 37.6 56.4

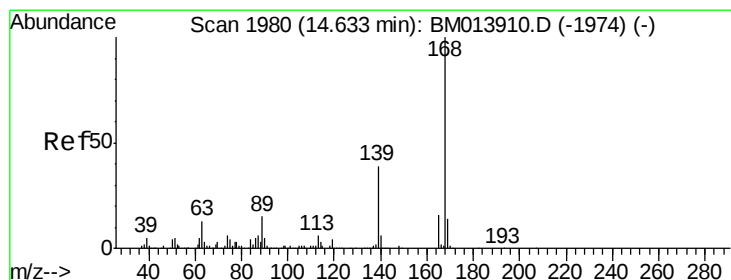
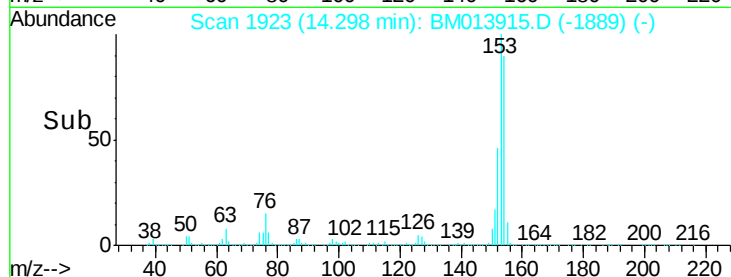
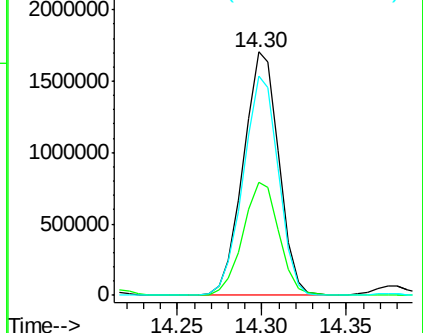
154 90.1 70.4 105.6



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 83.370 ng/ul

RT: 14.64 min Scan# 1981

Delta R.T. 0.01 min

Lab File: BM013915.D

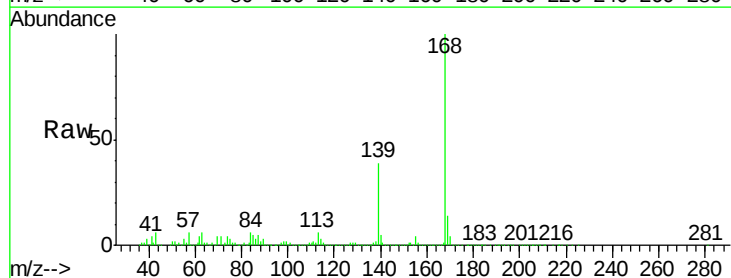
Acq: 28 Jan 2018 10:19

Tgt Ion:168 Resp: 2270564

Ion	Ratio	Lower	Upper
168	100		
139	38.6	30.8	46.2

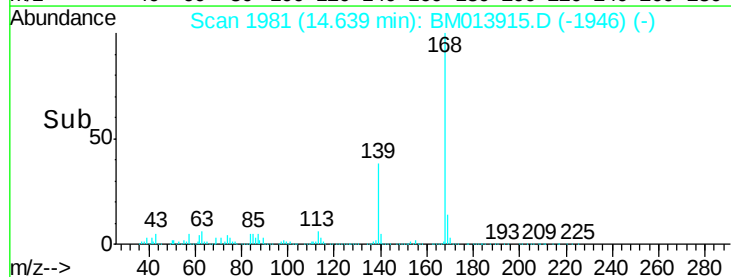
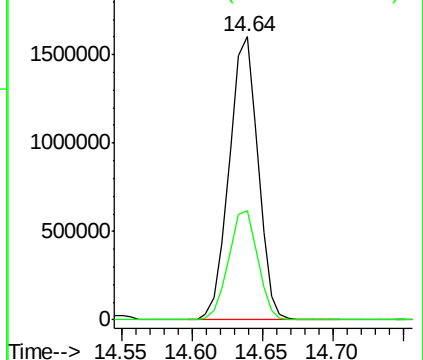
168 100

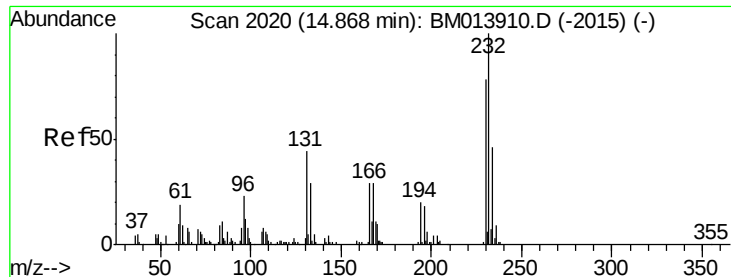
139 38.6 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#55

2,3,4,6-Tetrachlorophenol

Concen: 4.712 ng/ul

RT: 14.87 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

Instrument :

BNA_M

ClientSampleId :

Tot Ion:232 Resp: 26888

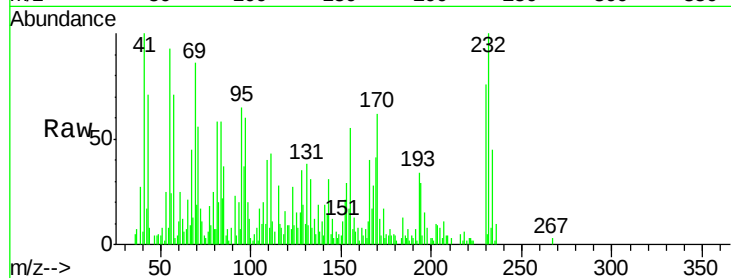
Ion Ratio Lower Upper

232 100

131 38.2 29.0 43.4

130 10.3 2.0 3.0#

166 40.5 21.4 32.2#

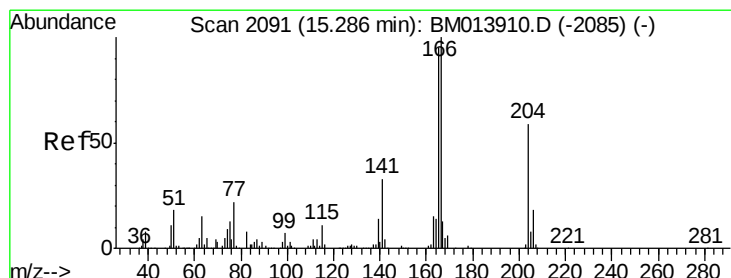
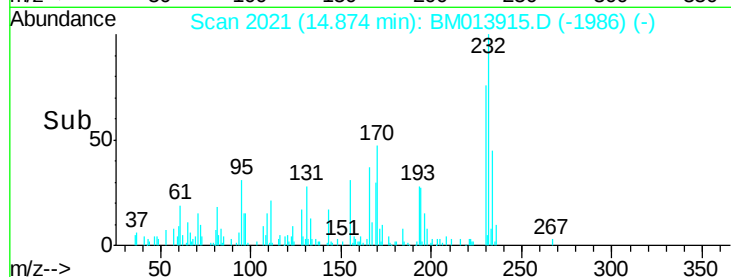
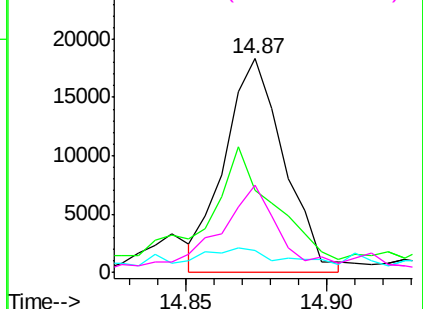


Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E



#58

Fluorene

Concen: 83.710 ng/ul

RT: 15.29 min Scan# 2092

Delta R.T. 0.01 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

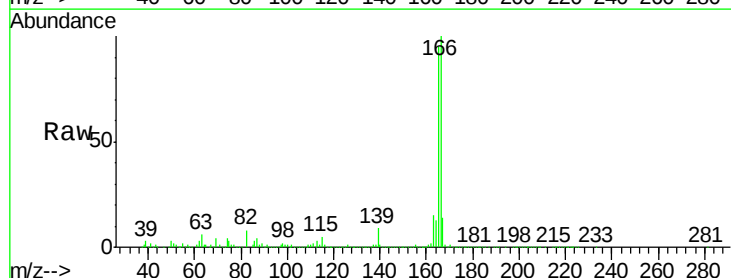
Tgt Ion:166 Resp: 1867515

Ion Ratio Lower Upper

166 100

165 95.5 77.9 116.9

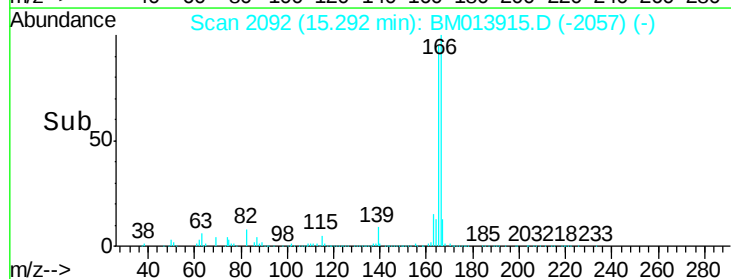
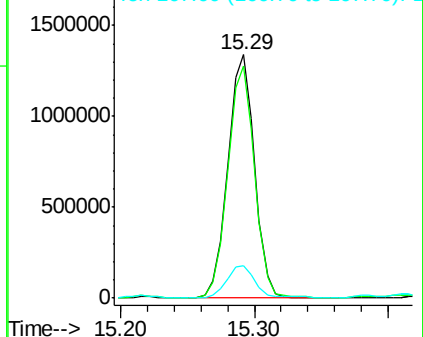
167 13.6 10.6 16.0

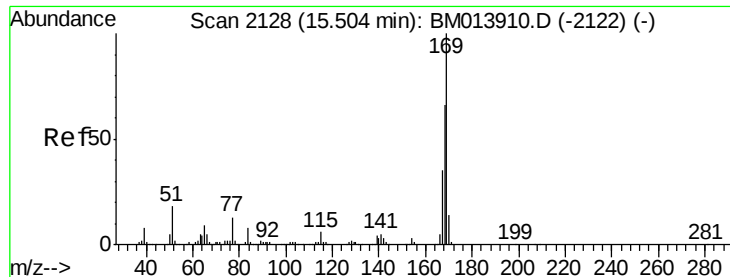


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

N-Nitrosodiphenylamine

Concen: 2.135 ng/ul

RT: 15.50 min Scan# 2128

Delta R.T. 0.00 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

Instrument :

BNA_M

ClientSampleId :

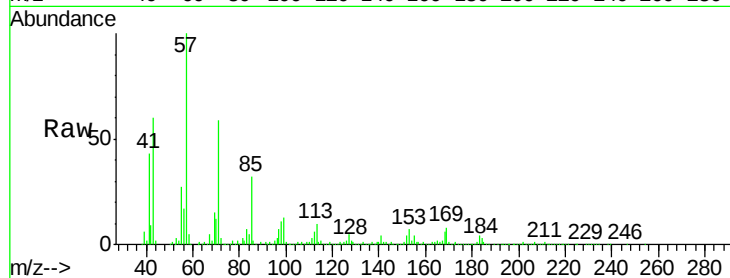
Tot Ion:169 Resp: 37628

Ion Ratio Lower Upper

169 100

168 81.3 54.0 81.0#

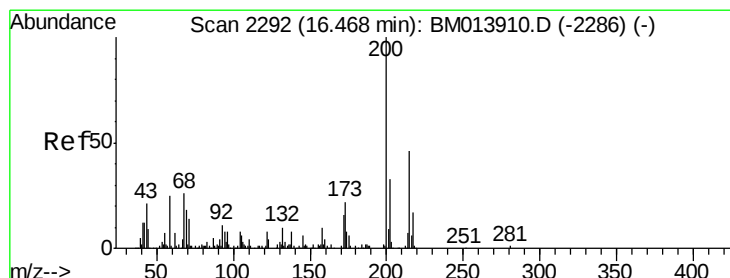
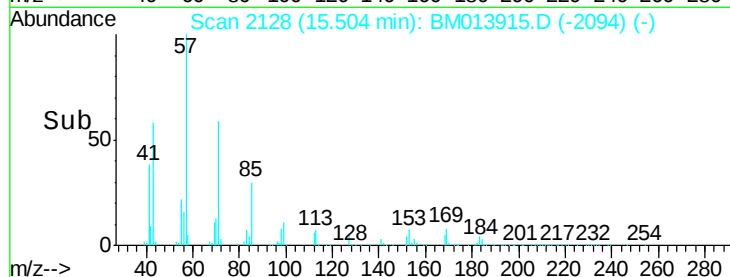
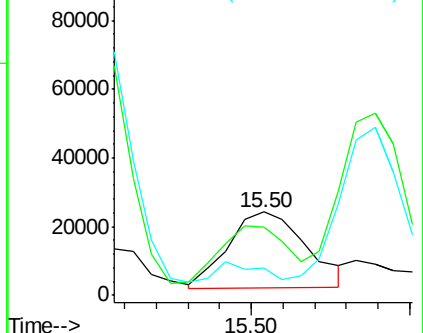
167 32.0 29.1 43.7



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#67

Atrazine

Concen: 9.774 ng/ul

RT: 16.64 min Scan# 2322

Delta R.T. 0.18 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

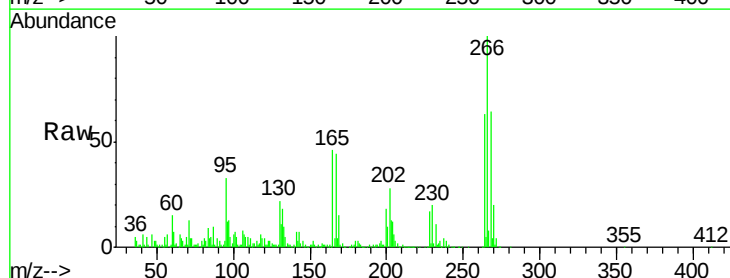
Tgt Ion:200 Resp: 68753

Ion Ratio Lower Upper

200 100

173 0.7 18.2 27.2#

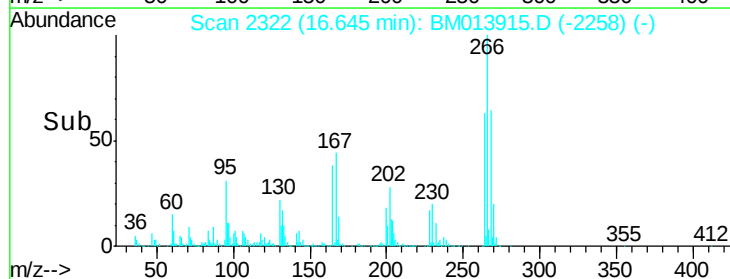
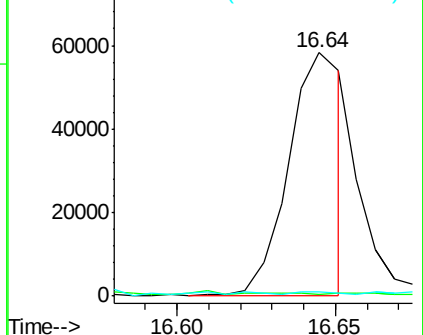
215 2.5 35.0 52.4#

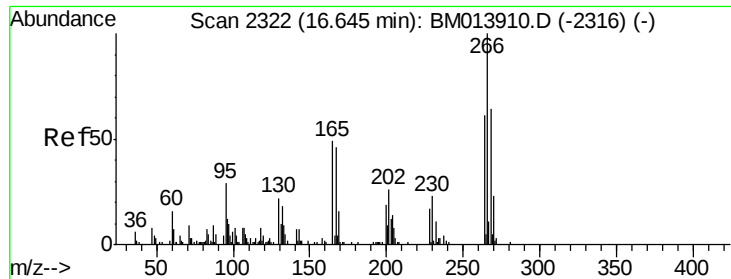


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

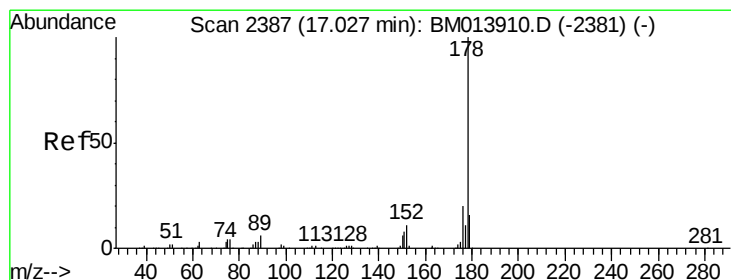
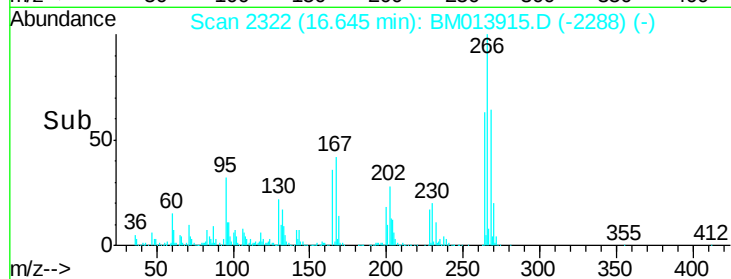
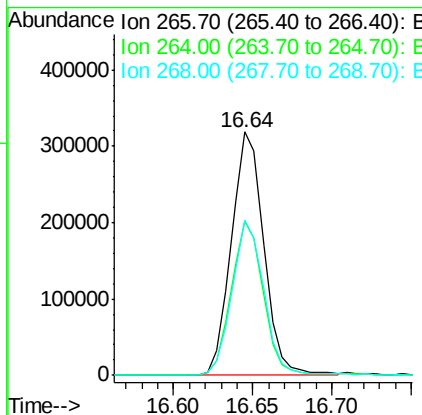
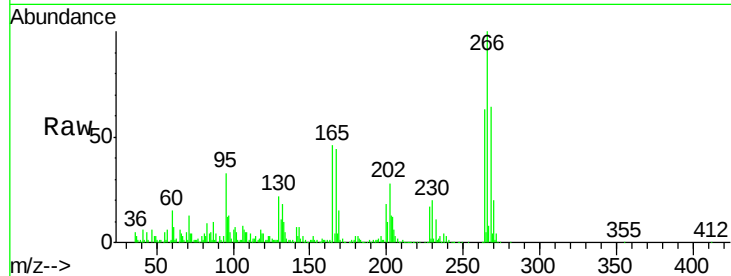




#68
 Pentachlorophenol
 Concen: 112.000 ng/ul
 RT: 16.64 min Scan# 2322
 Delta R.T. 0.00 min
 Lab File: BM013915.D
 Acq: 28 Jan 2018 10:19

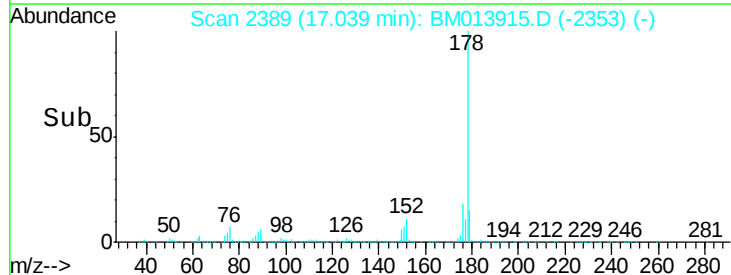
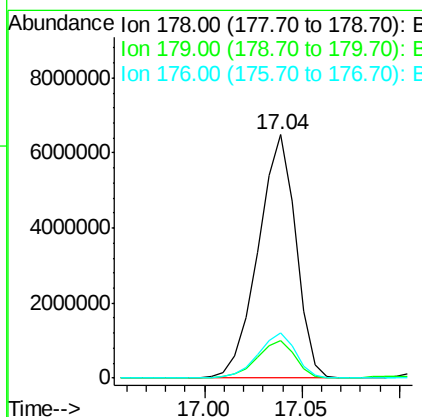
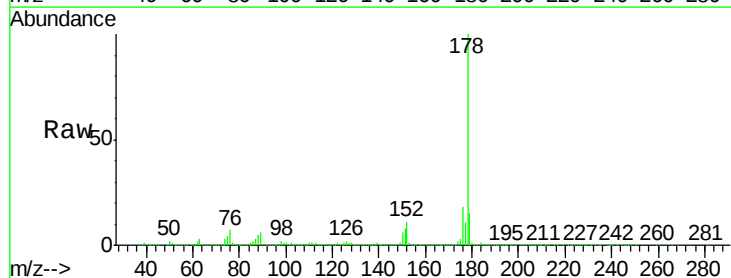
Instrument :
 BNA_M
 ClientSampleId :

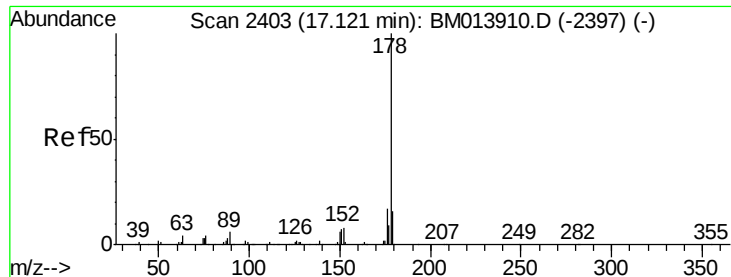
Tot Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.3	73.9
268	64.0	52.6	78.8



#69
 Phenanthrene
 Concen: 259.431 ng/ul
 RT: 17.04 min Scan# 2389
 Delta R.T. 0.01 min
 Lab File: BM013915.D
 Acq: 28 Jan 2018 10:19

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.6	19.0
176	18.4	14.9	22.3



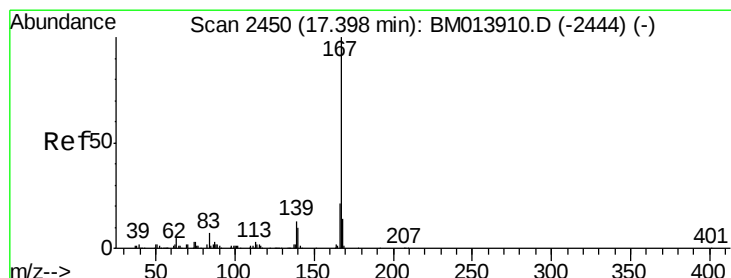
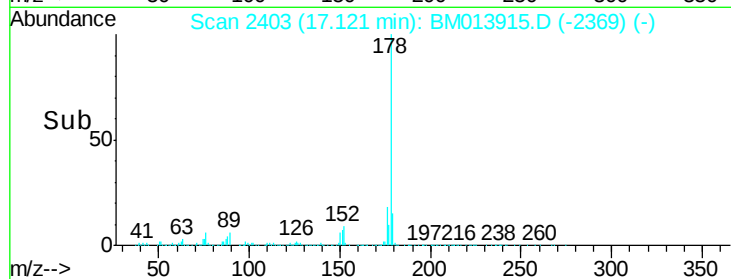
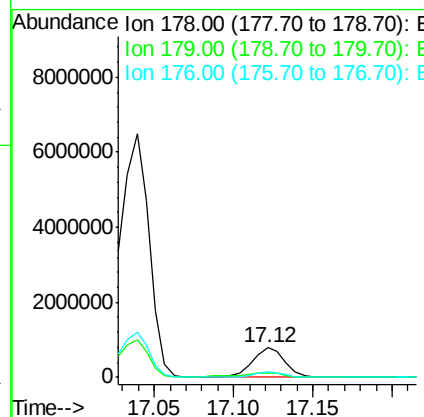
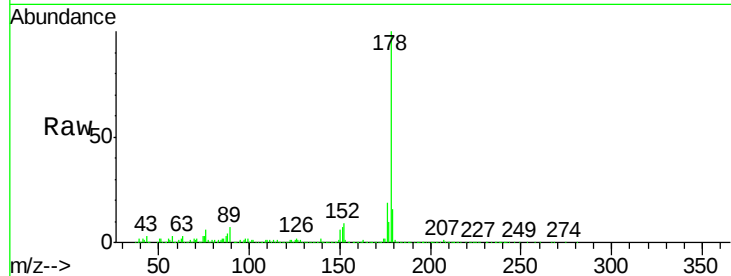


#71
 Anthracene
 Concen: 31.857 ng/ul
 RT: 17.12 min Scan# 2403
 Delta R.T. 0.00 min
 Lab File: BM013915.D
 Acq: 28 Jan 2018 10:19

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:178 Resp: 1094587

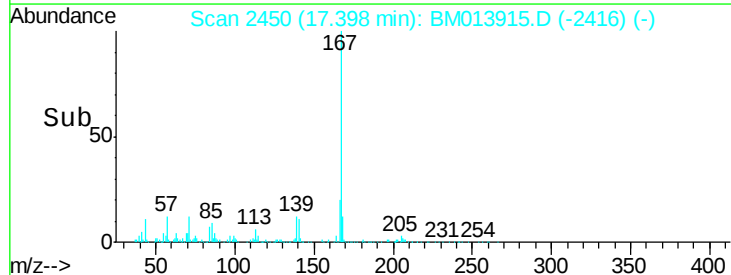
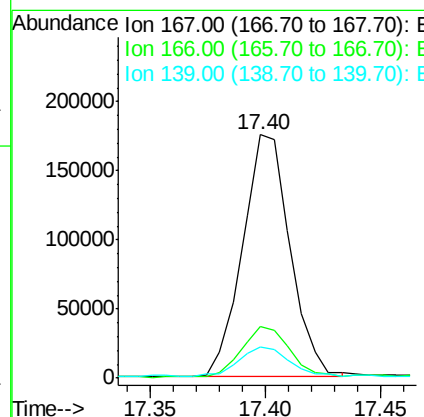
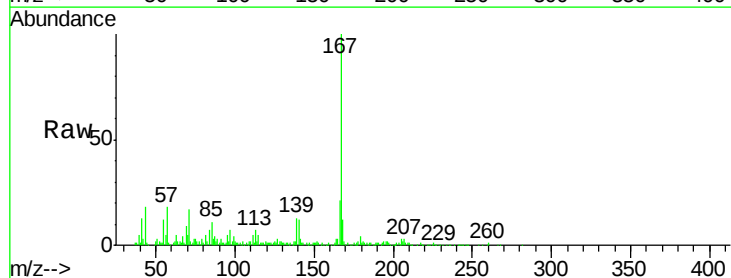
Ion	Ratio	Lower	Upper
178	100		
179	15.6	11.7	17.5
176	18.5	14.6	21.8

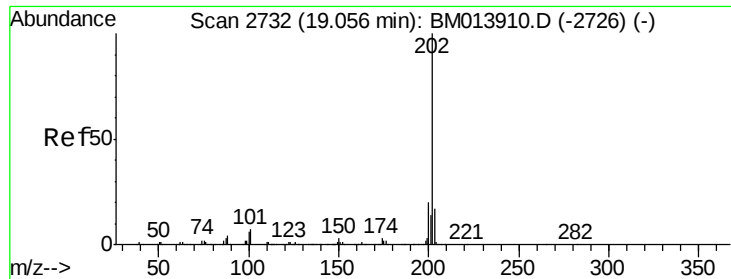


#72
 Carbazole
 Concen: 8.828 ng/ul
 RT: 17.40 min Scan# 2450
 Delta R.T. 0.00 min
 Lab File: BM013915.D
 Acq: 28 Jan 2018 10:19

Tgt Ion:167 Resp: 250369

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.1	25.7
139	12.6	10.0	15.0





#74

Fluoranthene

Concen: 120.166 ng/ul

RT: 19.06 min Scan# 2732

Delta R.T. 0.00 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

Instrument :

BNA_M

ClientSampleId :

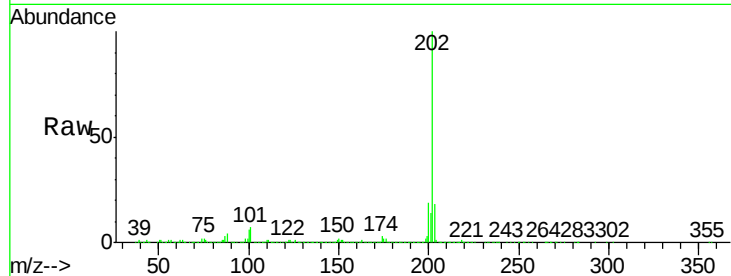
Tot Ion:202 Resp: 4778210

Ion Ratio Lower Upper

202 100

101 7.5 4.6 7.0#

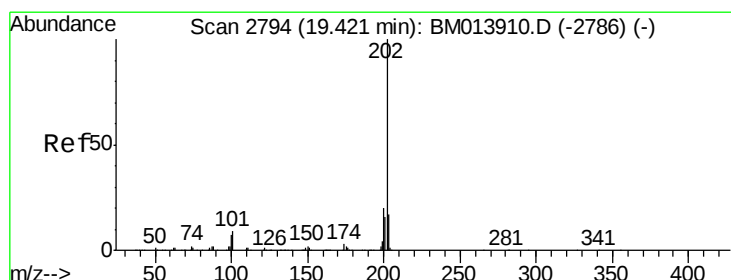
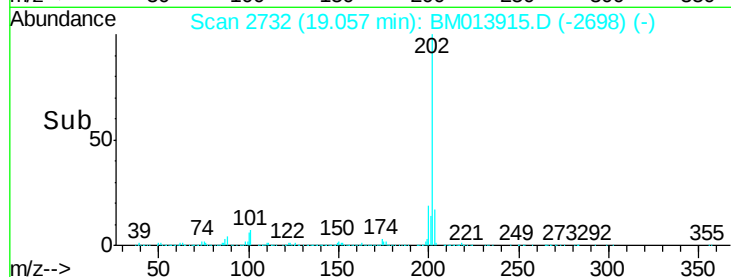
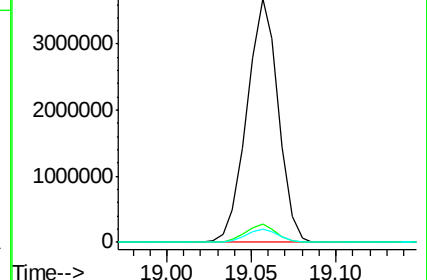
100 5.5 3.4 5.2#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 81.540 ng/ul

RT: 19.42 min Scan# 2794

Delta R.T. 0.00 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

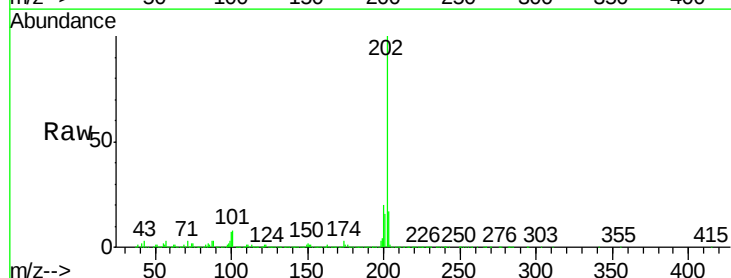
Tgt Ion:202 Resp: 3240990

Ion Ratio Lower Upper

202 100

101 8.3 5.1 7.7#

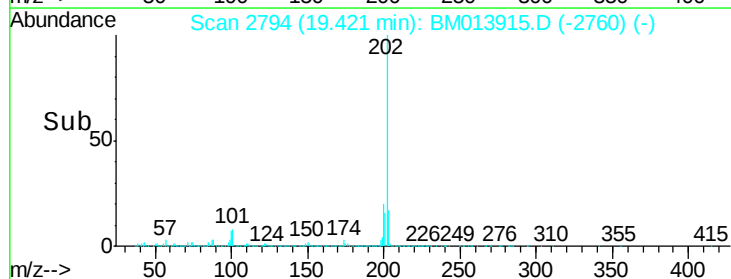
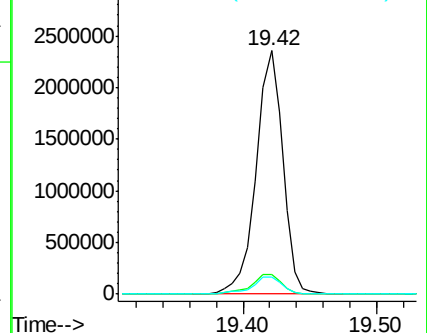
100 7.3 4.9 7.3

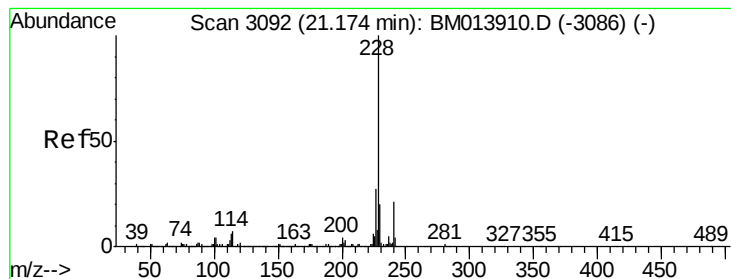


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 14.004 ng/ul

RT: 21.17 min Scan# 3092

Delta R.T. 0.00 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

Instrument :

BNA_M

ClientSampled :

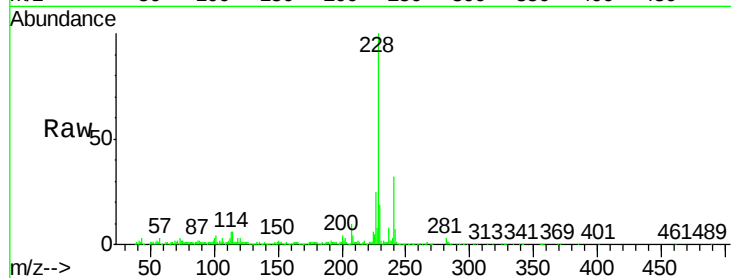
Tot Ion:228 Resp: 553252

Ion Ratio Lower Upper

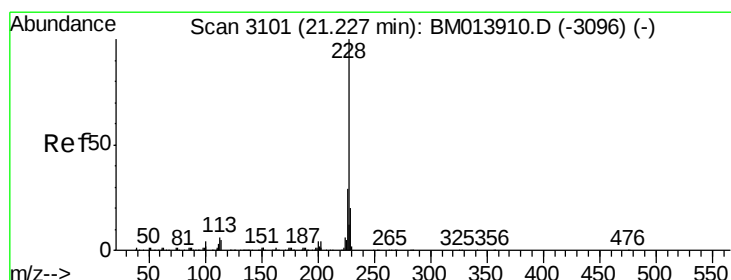
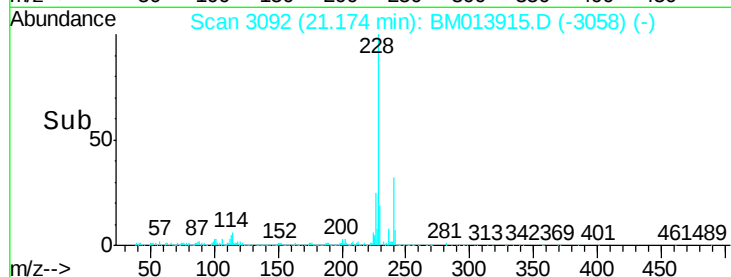
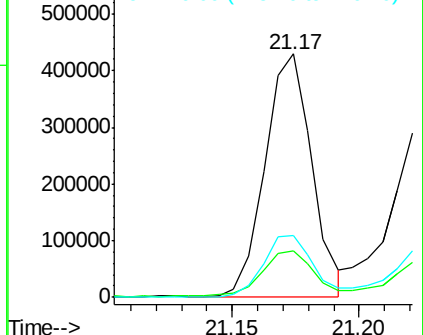
228 100

229 19.2 15.4 23.0

226 25.4 21.4 32.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 12.396 ng/ul

RT: 21.23 min Scan# 3101

Delta R.T. 0.00 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

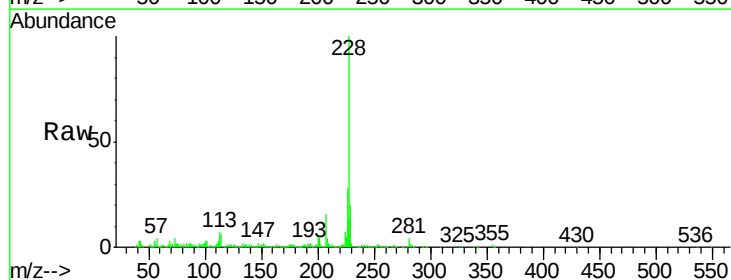
Tgt Ion:228 Resp: 449251

Ion Ratio Lower Upper

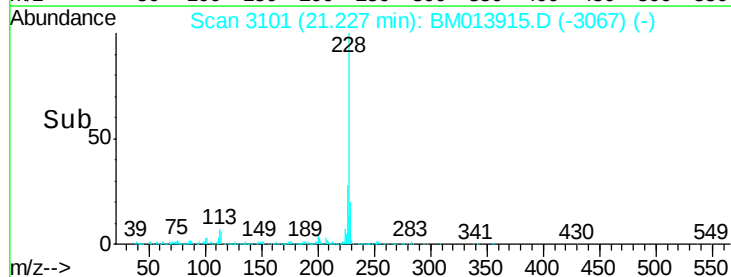
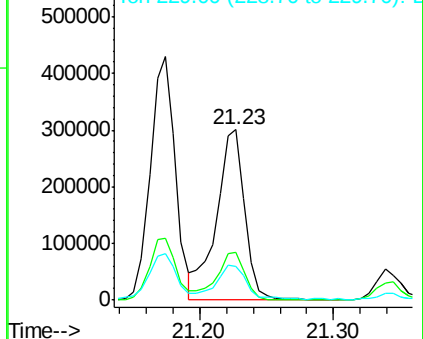
228 100

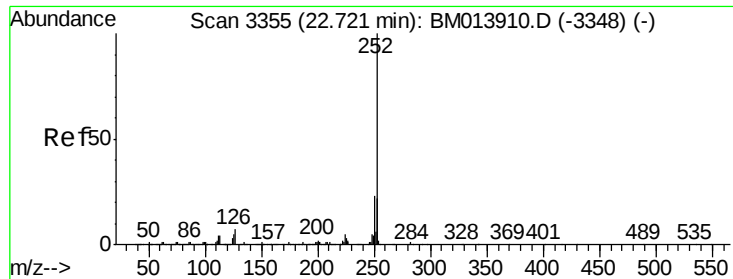
226 28.1 23.4 35.2

229 20.1 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

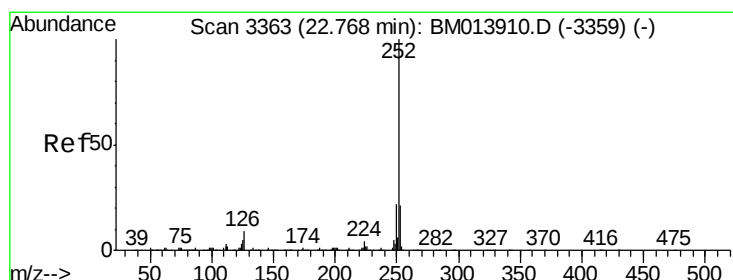
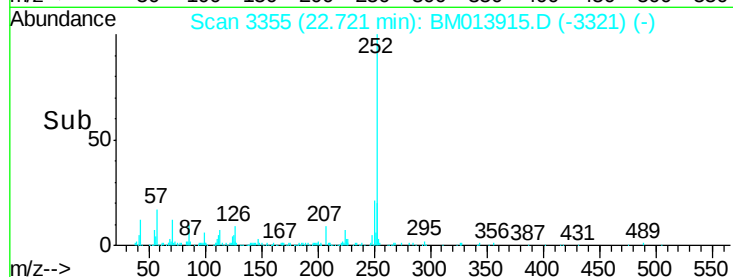
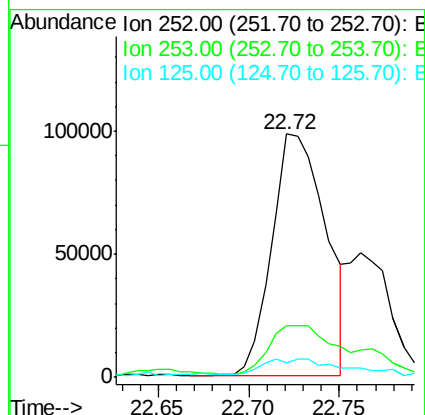
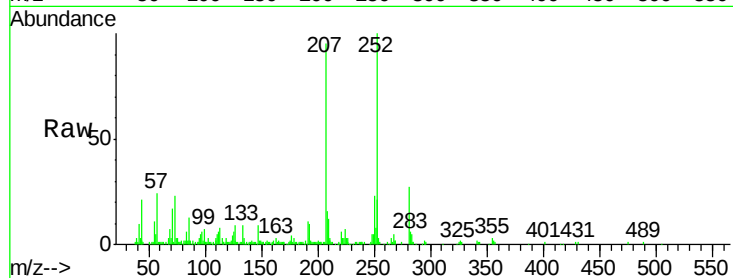




#85
Benzo(b)fluoranthene
Concen: 4.854 ng/ul
RT: 22.72 min Scan# 3355
Delta R.T. 0.00 min
Lab File: BM013915.D
Acq: 28 Jan 2018 10:19

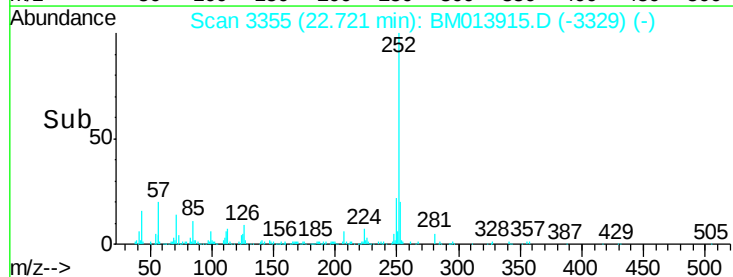
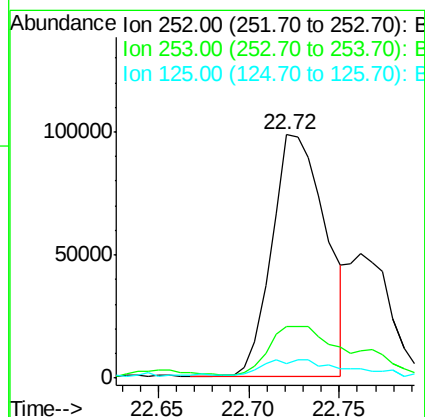
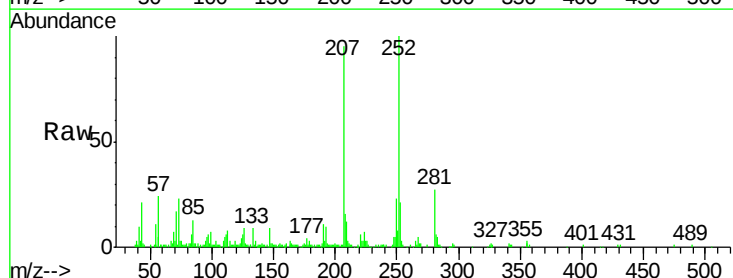
Instrument :
BNA_M
ClientSampleId :

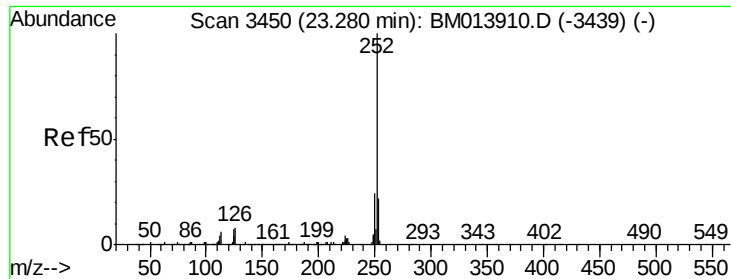
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.9	26.9
125	6.0	3.6	5.4



#86
Benzo(k)fluoranthene
Concen: 5.022 ng/ul
RT: 22.72 min Scan# 3355
Delta R.T. -0.05 min
Lab File: BM013915.D
Acq: 28 Jan 2018 10:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7
125	6.0	3.4	5.2





#88

Benzo(a)pyrene

Concen: 2.792 ng/ul

RT: 23.28 min Scan# 3450

Delta R.T. 0.00 min

Lab File: BM013915.D

Acq: 28 Jan 2018 10:19

Instrument :

BNA_M

ClientSampleId :

Tot Ion:252 Resp: 111058

Ion Ratio Lower Upper

252 100

253 24.9 18.2 27.2

125 7.2 4.0 6.0#

