

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM033019\
 Data File : BM019615.D
 Acq On : 30 Mar 2019 12:33
 Operator : JU/SJ
 Sample : K2065-06
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Mar 30 21:31:18 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM032219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Mar 29 14:33:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng/ul	-7.58
18) Naphthalene-d8	0.00	136	0	0.00	ng/ul	-10.36
36) Acenaphthene-d10	14.24	164	1100	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.00	188	1326	20.00	ng/ul	0.00
78) Chrysene-d12	21.20	240	2341	20.00	ng/ul	0.00
86) Perylene-d12	23.27	264	865242	20.00	ng/ul	-0.14

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.13	96	14128	0.00	ng/uL	0.00
5) Phenol-d5	6.76	99	139953	0.00	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	103318	0.00	ng/ul	0.00
9) 2-Chlorophenol-d4	7.11	132	114197	0.00	ng/ul	0.00
13) 4-Methylphenol-d8	8.30	113	75046	0.00	ng/ul	0.00
19) Nitrobenzene-d5	8.75	128	52632	0.00	ng/ul	0.00
22) 2-Nitrophenol-d4	9.46	143	45293	0.00	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.00	165	88864	0.00	ng/ul	0.00
29) 4-Chloroaniline-d4	10.53	131	119237	0.00	ng/ul	0.00
44) Dimethylphthalate-d6	13.66	166	379373	4274.30	ng/ul	0.00
47) Acenaphthylene-d8	13.93	160	477680	4304.06	ng/ul	0.00
52) 4-Nitrophenol-d4	14.47	143	228	16.39	ng/ul	0.00
58) Fluorene-d10	15.23	176	344806	4509.00	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.39	200	8051	918.14	ng/ul	0.00
71) Anthracene-d10	17.09	188	538571	8463.82	ng/ul	0.00
79) Pyrene-d10	19.40	212	645239	5967.16	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.27	264	862055	18.79	ng/ul	0.00

Target Compounds

					Ovalue	
39) 2,4,6-Trichlorophenol	12.65	196	119	5.449	ng/ul#	12
41) 1,1'-Biophenyl	13.06	154	1007	10.748	ng/ul#	77
42) 2-Chloronaphthalene	12.94	162	914	12.739	ng/ul#	45
43) 2-Nitroaniline	13.36	65	211	10.709	ng/ul#	24
45) Dimethylphthalate	13.70	163	63994	718.604	ng/ul	99
46) 2,6-Dinitrotoluene	13.84	165	222	13.579	ng/ul#	1
48) Acenaphthylene	13.96	152	5974	54.310	ng/ul#	63
49) 3-Nitroaniline	14.17	138	1128	70.511	ng/ul#	54
50) Acenaphthene	14.30	153	2721	35.123	ng/ul#	85
53) 4-Nitrophenol	14.47	109	718	65.938	ng/ul#	18
54) Dibenzofuran	14.65	168	2332	21.555	ng/ul#	1
55) 2,4-Dinitrotoluene	14.63	165	1531	63.241	ng/ul#	92
57) Diethylphthalate	15.07	149	1717	19.602	ng/ul#	60
59) Fluorene	15.29	166	1820	21.229	ng/ul#	50
60) 4-Chlorophenyl-phenylether	15.29	204	336	7.856	ng/ul#	1
61) 4-Nitroaniline	15.36	138	499	28.575	ng/ul#	12
64) 4,6-Dinitro-2-methylphenol	15.31	198	2077	223.728	ng/ul#	1
65) N-Nitrosodiphenylamine	15.48	169	11802	286.084	ng/ul#	62
68) Atrazine	16.47	200	978	67.743	ng/ul#	25
70) Phenanthrene	17.04	178	67169	893.419	ng/ul	98
72) Anthracene	17.04	178	67541	880.577	ng/ul	99
75) Carbazole	17.43	167	6291	91.455	ng/ul#	48
76) Di-n-butylphthalate	17.99	149	563	7.384	ng/ul#	28

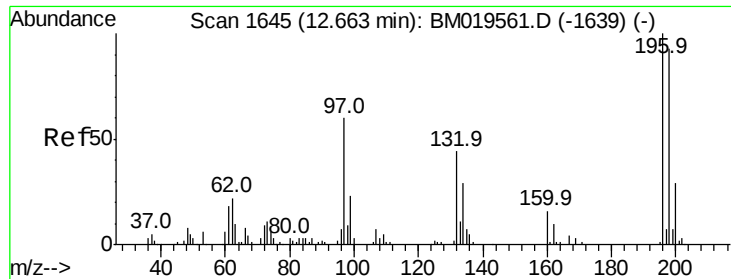
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM033019\
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Quant Title : SVOA CALIBRATION
QLast Update : Fri Mar 29 14:33:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Fluoranthene	19.06	202	119649	1388.850	ng/ul#	85
80) Pyrene	19.43	202	113565	806.359	ng/ul#	81
81) Butylbenzylphthalate	20.34	149	9871	177.015	ng/ul#	57
82) 3,3'-Dichlorobenzidine	21.13	252	549	10.795	ng/ul#	40
83) Benzo(a)anthracene	21.19	228	58431	414.689	ng/ul#	90
84) Bis(2-ethylhexyl)phthalate	21.11	149	12660	156.631	ng/ul	96
85) Chrysene	21.24	228	70689	522.846	ng/ul#	95

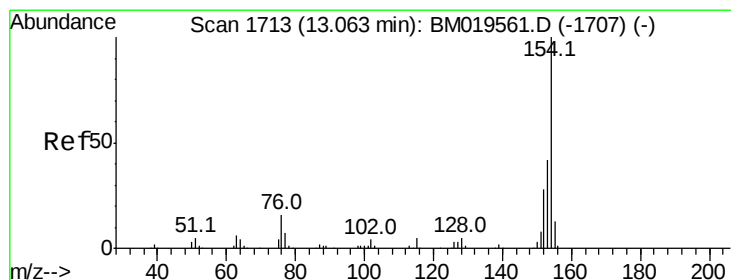
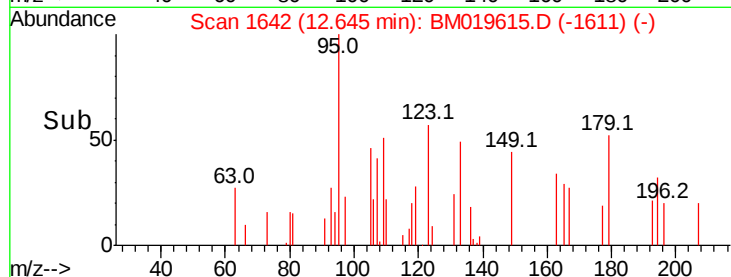
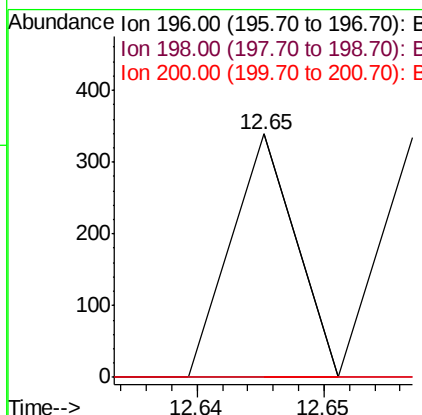
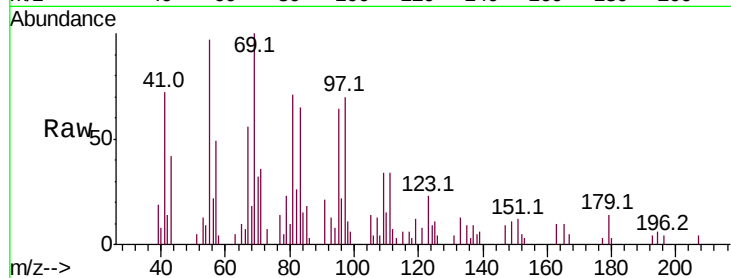
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#39
 2,4,6-Trichlorophenol
 Concen: 5.449 ng/ul
 RT: 12.65 min Scan# 1642
 Delta R.T. -0.02 min
 Lab File: BM019615.D
 Acq: 30 Mar 2019 12:33

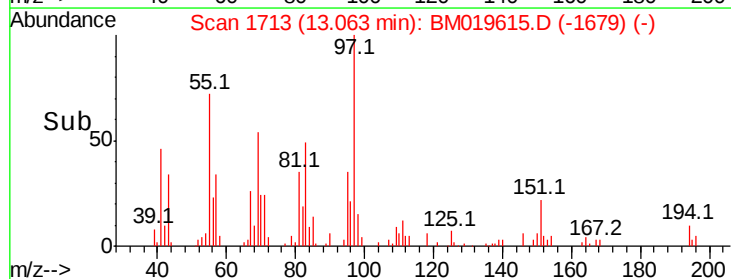
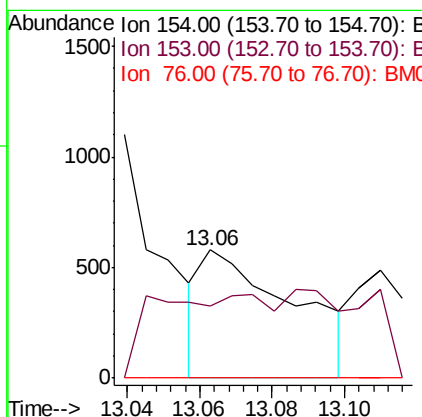
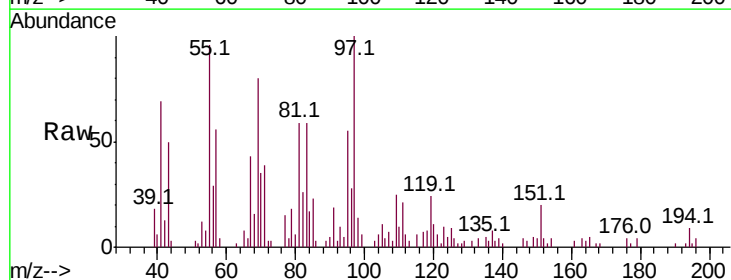
Instrument :
 BNA_M
 ClientSampled :

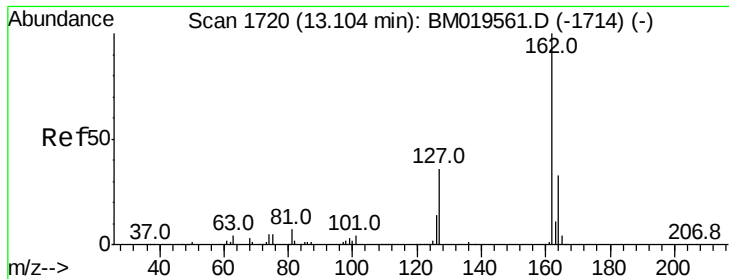
Tot Ion:196 Resp: 119
 Ion Ratio Lower Upper
 196 100
 198 0.0 75.9 113.9#
 200 0.0 25.8 38.6#



#41
 1,1'-Biphenyl
 Concen: 10.748 ng/ul
 RT: 13.06 min Scan# 1713
 Delta R.T. 0.00 min
 Lab File: BM019615.D
 Acq: 30 Mar 2019 12:33

Tgt Ion:154 Resp: 1007
 Ion Ratio Lower Upper
 154 100
 153 56.4 34.0 51.0#
 76 0.0 8.4 12.6#

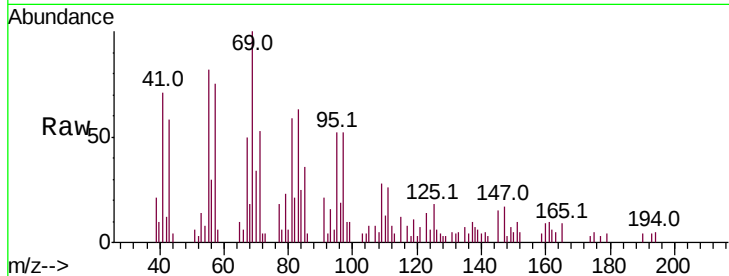




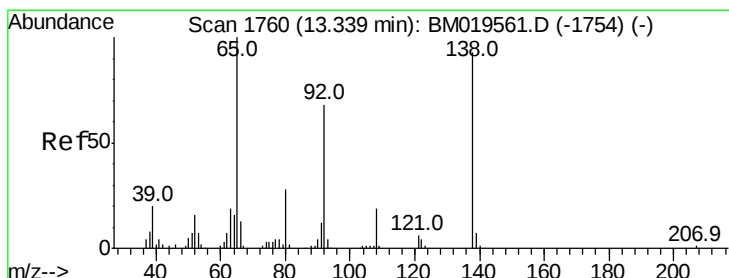
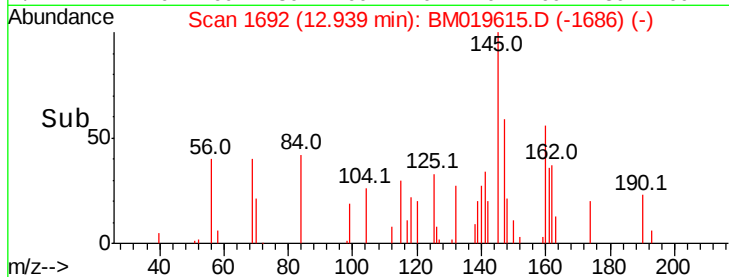
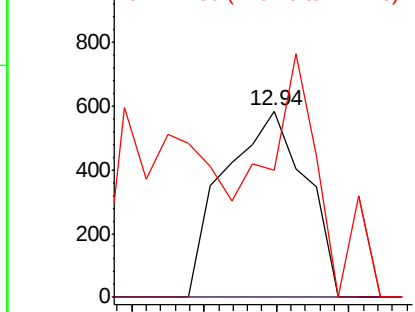
#42
2-Chloronaphthalene
Concen: 12.739 ng/ul
RT: 12.94 min Scan# 1692
Delta R.T. -0.16 min
Lab File: BM019615.D
Acq: 30 Mar 2019 12:33

Instrument :
BNA_M
ClientSampleId :

Tot Ion:162 Resp: 914
Ion Ratio Lower Upper
162 100
164 0.0 26.2 39.4#
127 68.4 29.5 44.3#

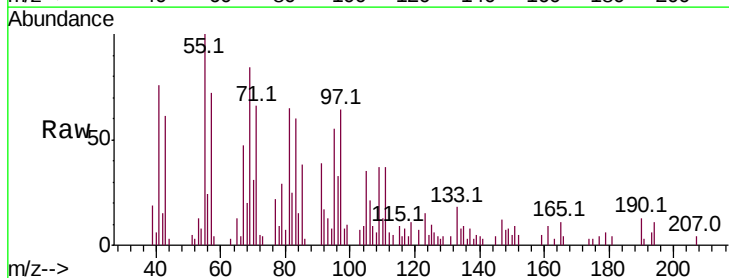


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 127.00 (126.70 to 127.70): E

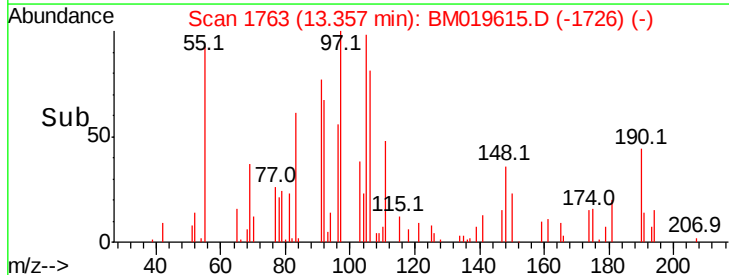
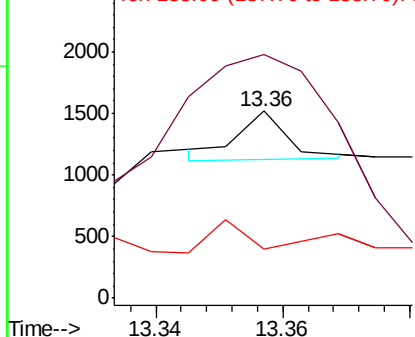


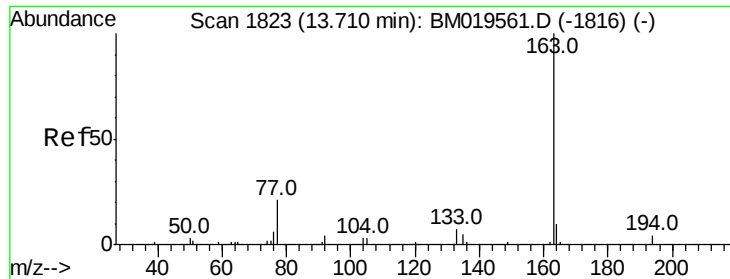
#43
2-Nitroaniline
Concen: 10.709 ng/ul
RT: 13.36 min Scan# 1763
Delta R.T. 0.02 min
Lab File: BM019615.D
Acq: 30 Mar 2019 12:33

Tgt Ion: 65 Resp: 211
Ion Ratio Lower Upper
65 100
92 130.0 57.0 85.4#
138 26.3 87.2 130.8#



Abundance Ion 65.00 (64.70 to 65.70): BM0
Ion 92.00 (91.70 to 92.70): BM0
Ion 138.00 (137.70 to 138.70): E

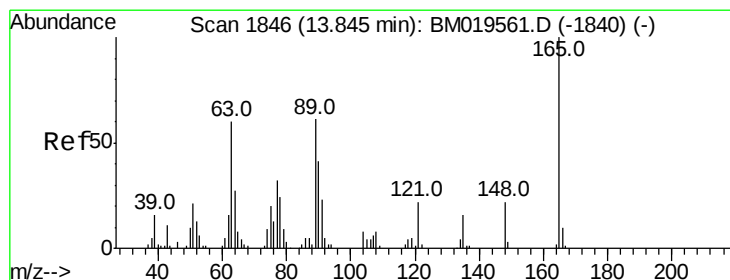
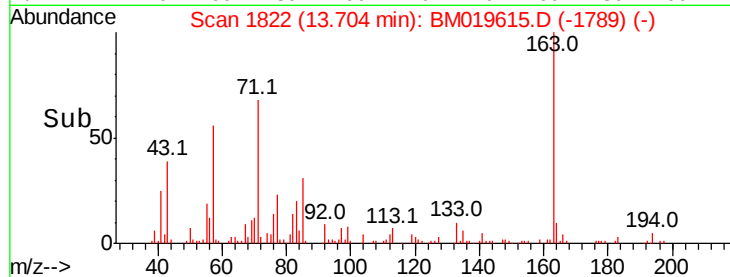
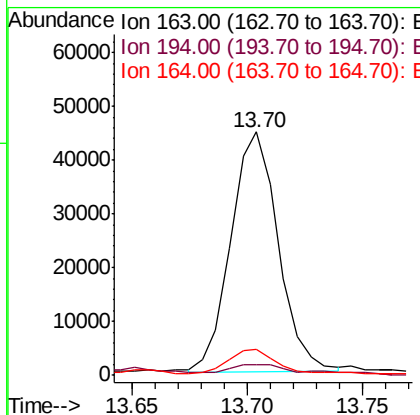
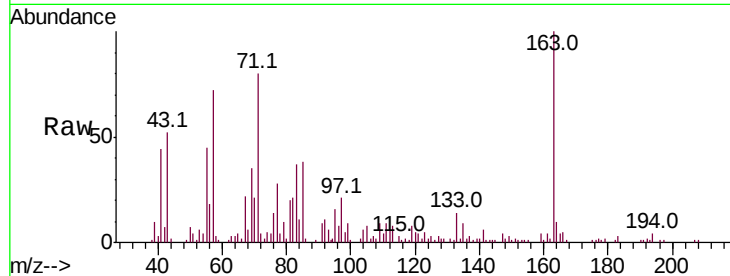




#45
 Dimethylphthalate
 Concen: 718.604 ng/ul
 RT: 13.70 min Scan# 1822
 Delta R.T. -0.01 min
 Lab File: BM019615.D
 Acq: 30 Mar 2019 12:33

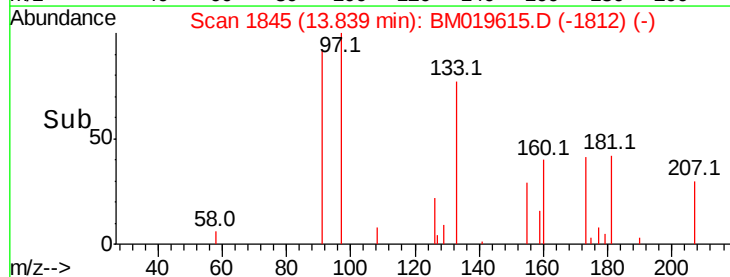
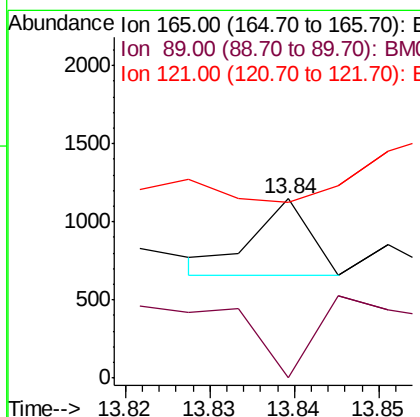
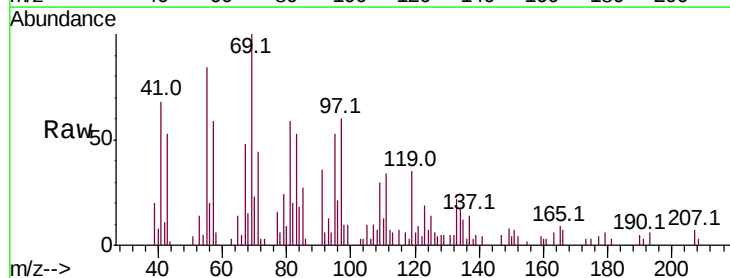
Instrument :
 BNA_M
 ClientSampleId :

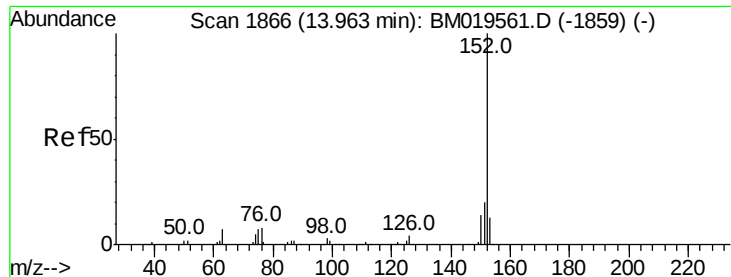
Tot Ion:163 Resp: 63994
 Ion Ratio Lower Upper
 163 100
 194 4.5 4.0 6.0
 164 10.5 8.4 12.6



#46
 2,6-Dinitrotoluene
 Concen: 13.579 ng/ul
 RT: 13.84 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: BM019615.D
 Acq: 30 Mar 2019 12:33

Tgt Ion:165 Resp: 222
 Ion Ratio Lower Upper
 165 100
 89 0.0 43.8 65.8#
 121 98.2 17.8 26.6#





#48

Acenaphthylene

Concen: 54.310 ng/ul

RT: 13.96 min Scan# 1866

Delta R.T. 0.00 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

ClientSampled :

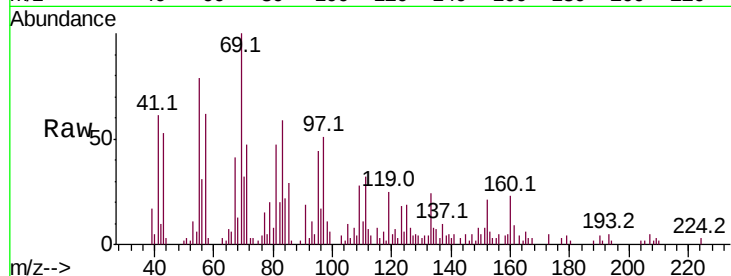
Tot Ion:152 Resp: 5974

Ion Ratio Lower Upper

152 100

151 38.0 16.1 24.1#

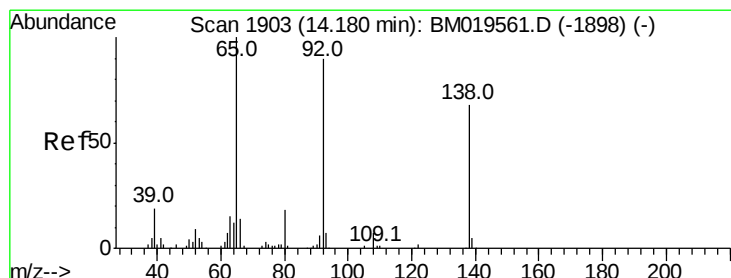
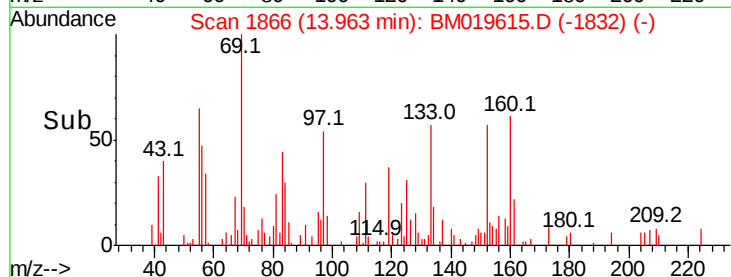
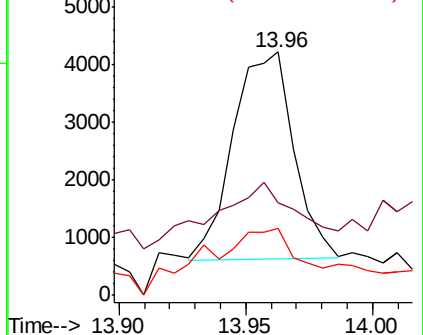
153 27.4 10.8 16.2#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

3-Nitroaniline

Concen: 70.511 ng/ul

RT: 14.17 min Scan# 1902

Delta R.T. -0.01 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

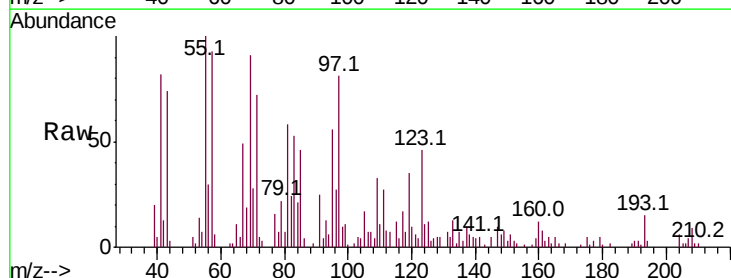
Tgt Ion:138 Resp: 1128

Ion Ratio Lower Upper

138 100

108 63.7 7.6 11.4#

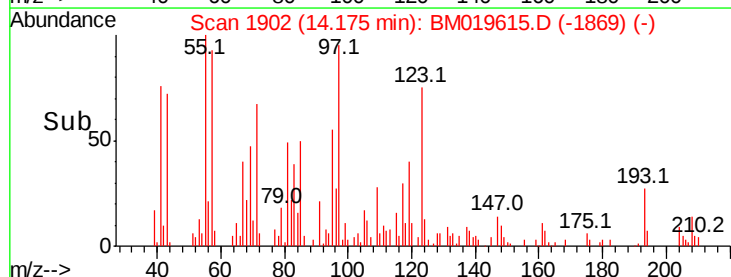
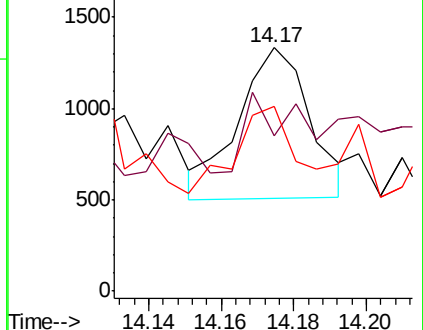
92 75.6 94.2 141.2#

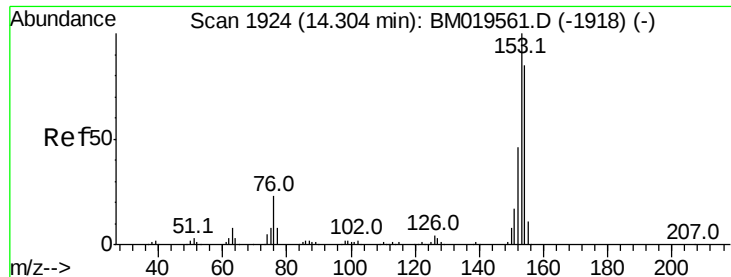


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): E





#50

Acenaphthene

Concen: 35.123 ng/ul

RT: 14.30 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

ClientSampleId :

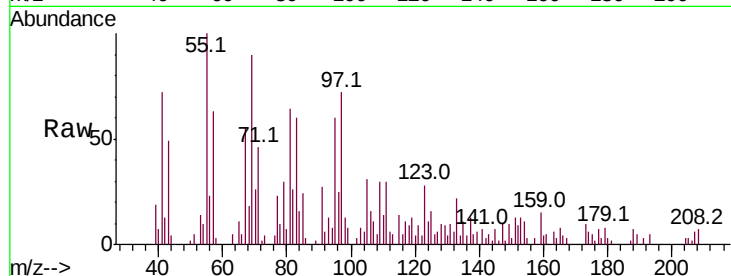
Tot Ion:153 Resp: 2721

Ion Ratio Lower Upper

153 100

152 70.3 37.9 56.9#

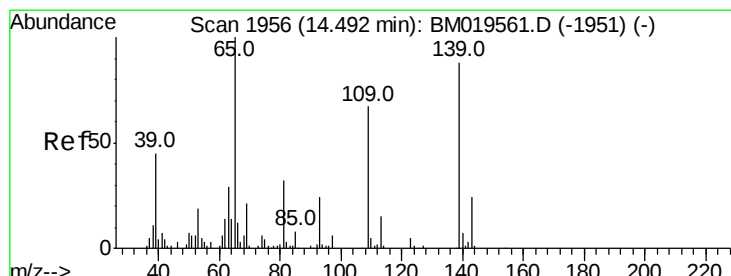
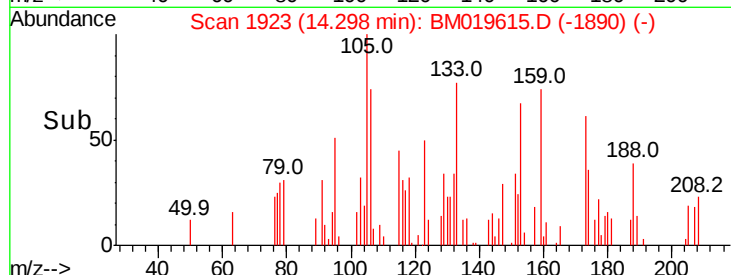
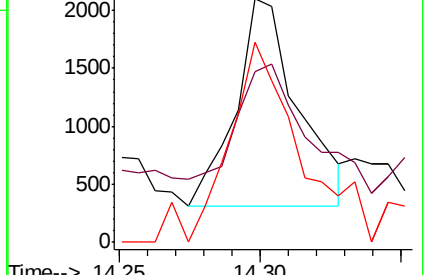
154 82.4 69.8 104.6



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

4-Nitrophenol

Concen: 65.938 ng/ul

RT: 14.47 min Scan# 1953

Delta R.T. -0.02 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

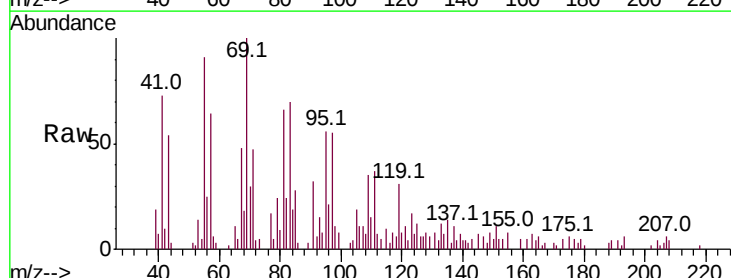
Tgt Ion:109 Resp: 718

Ion Ratio Lower Upper

109 100

139 19.2 91.2 136.8#

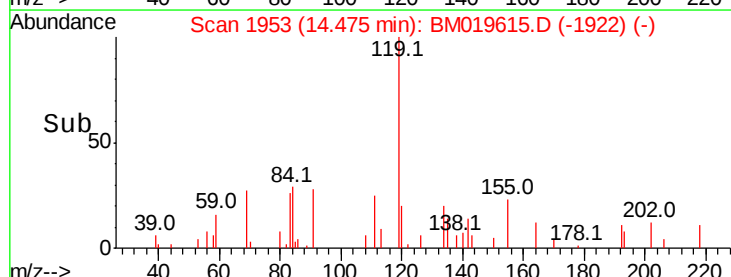
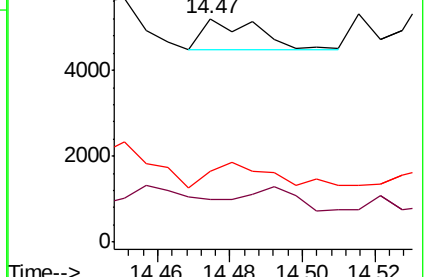
65 32.0 92.6 139.0#

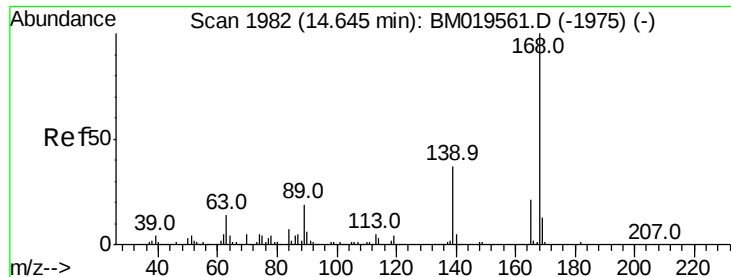


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): E





#54

Dibenzofuran

Concen: 21.555 ng/ul

RT: 14.65 min Scan# 1982

Delta R.T. 0.00 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

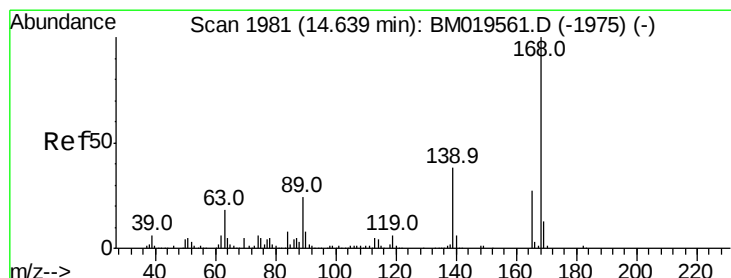
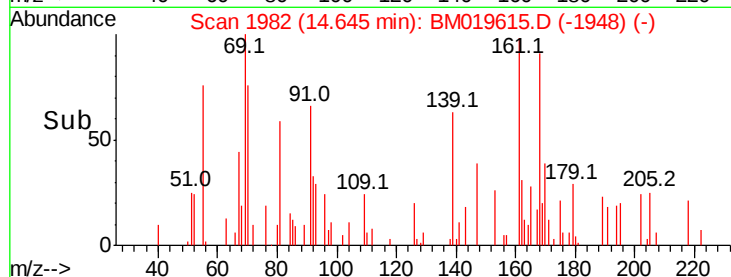
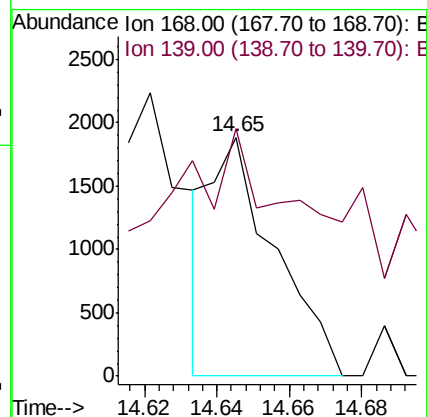
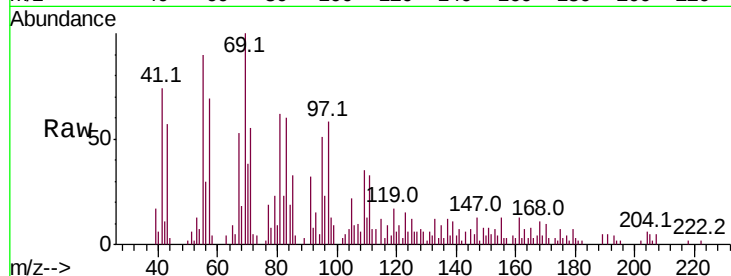
ClientSampled :

Tot Ion:168 Resp: 2332

Ion Ratio Lower Upper

168 100

139 103.9 31.0 46.4#



#55

2,4-Dinitrotoluene

Concen: 63.241 ng/ul

RT: 14.63 min Scan# 1980

Delta R.T. -0.01 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

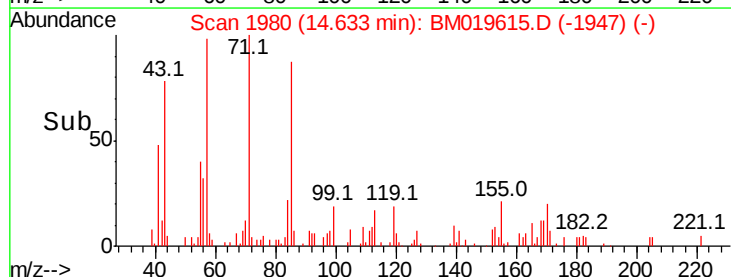
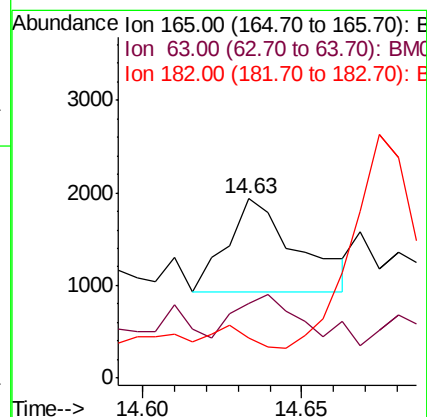
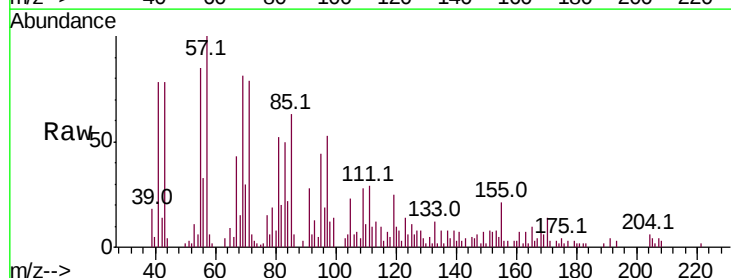
Tgt Ion:165 Resp: 1531

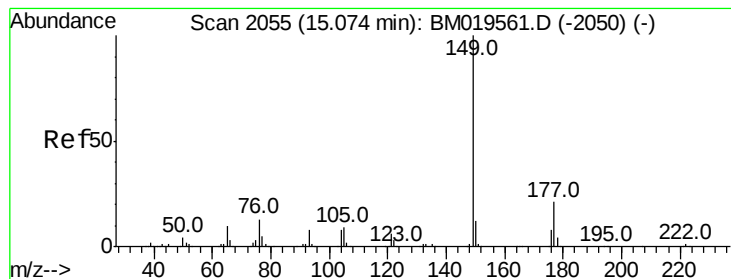
Ion Ratio Lower Upper

165 100

63 41.4 31.4 47.0

182 22.7 2.7 4.1#





#57

Diethylphthalate

Concen: 19.602 ng/ul

RT: 15.07 min Scan# 2054

Delta R.T. -0.01 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

ClientSampled :

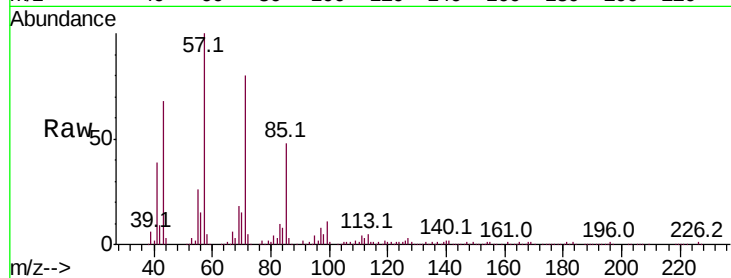
Tot Ion:149 Resp: 1717

Ion Ratio Lower Upper

149 100

177 40.3 19.3 28.9#

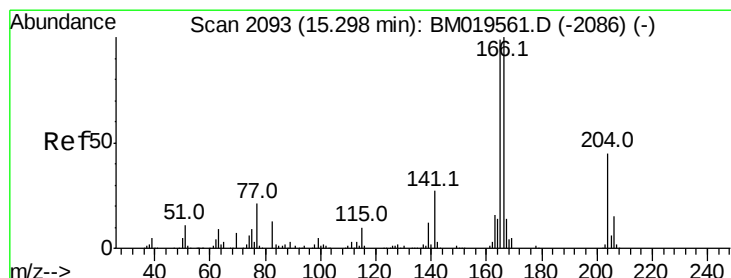
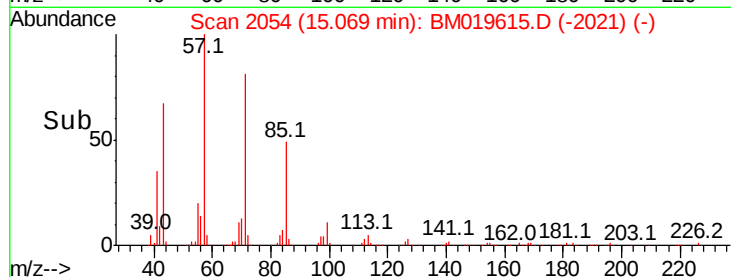
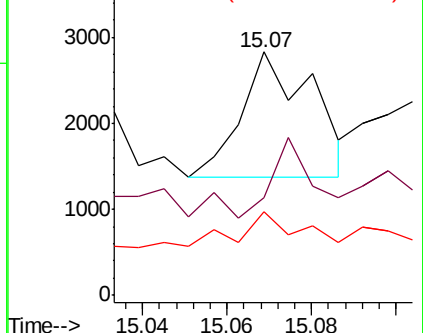
150 34.5 10.6 15.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#59

Fluorene

Concen: 21.229 ng/ul

RT: 15.29 min Scan# 2092

Delta R.T. -0.01 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

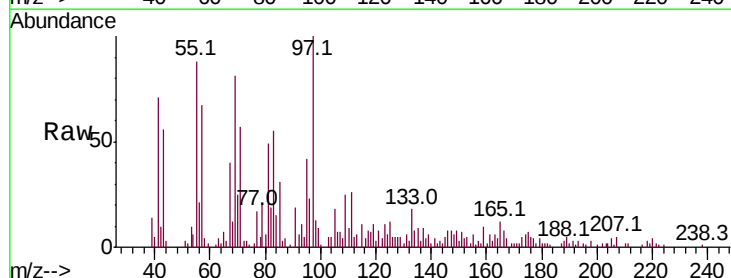
Tgt Ion:166 Resp: 1820

Ion Ratio Lower Upper

166 100

165 142.8 78.4 117.6#

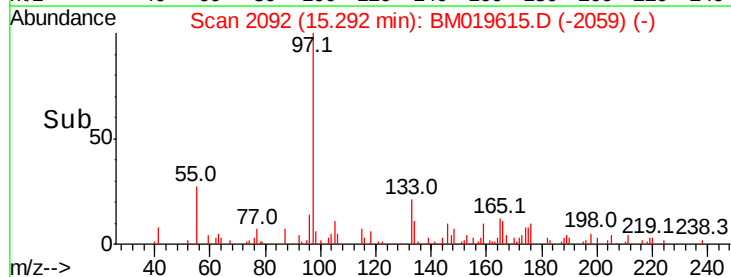
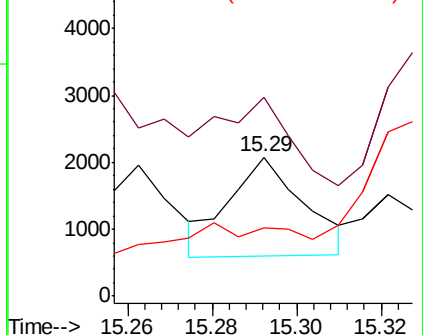
167 48.9 11.1 16.7#

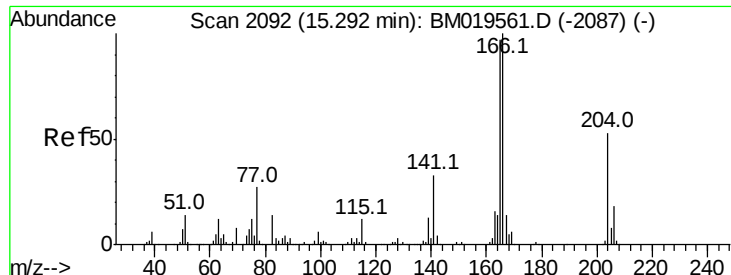


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

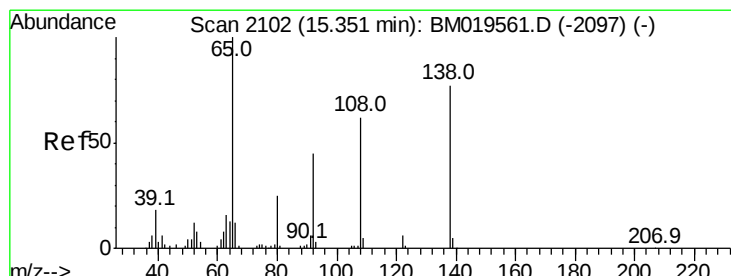
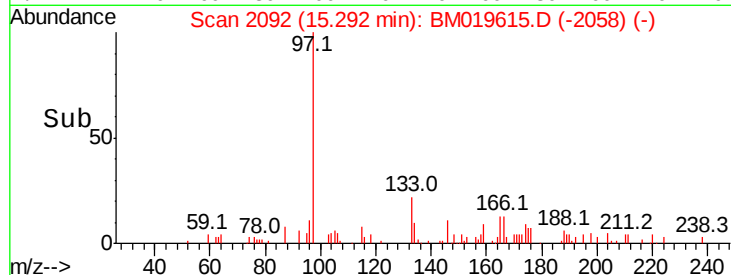
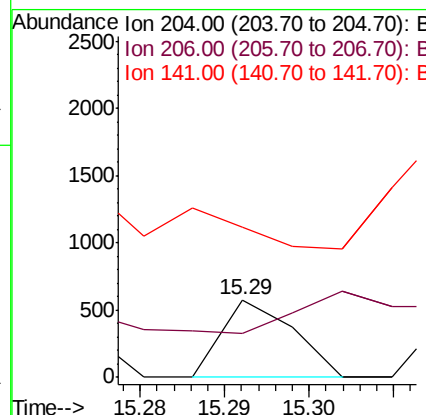
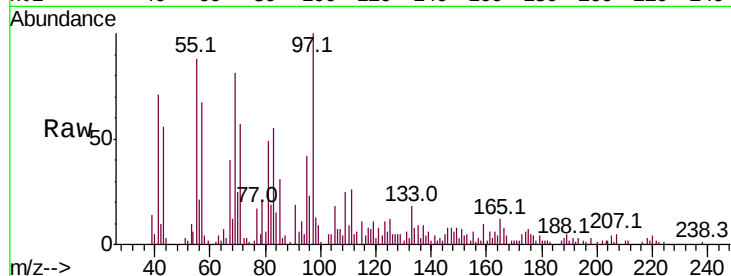




#60
 4-Chlorophenyl-phenylether
 Concen: 7.856 ng/ul
 RT: 15.29 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: BM019615.D
 Acq: 30 Mar 2019 12:33

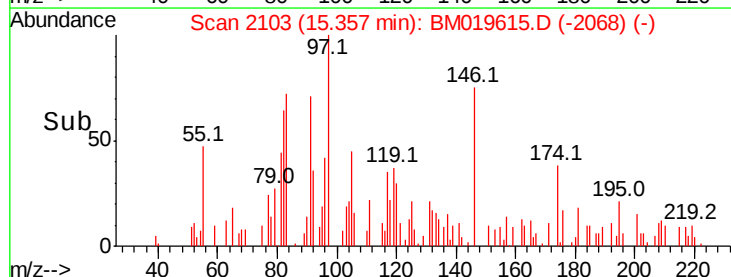
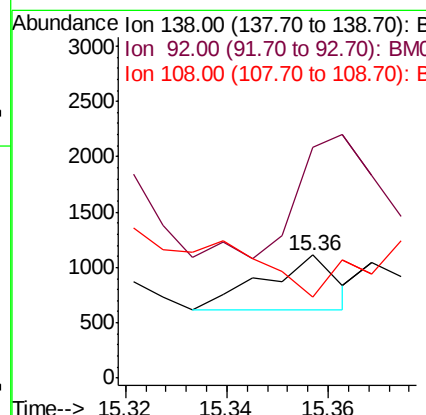
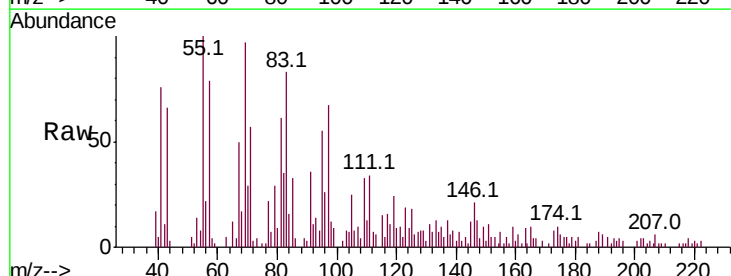
Instrument :
 BNA_M
 ClientSampled :

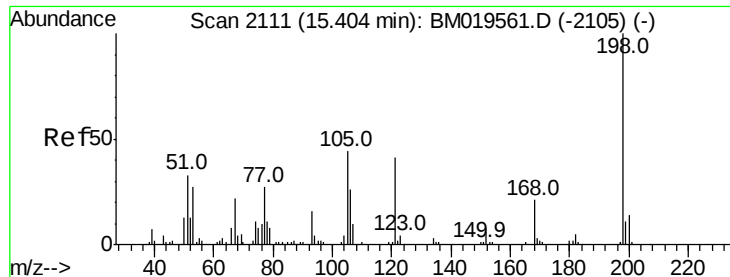
Tot Ion:204 Resp: 336
 Ion Ratio Lower Upper
 204 100
 206 56.2 26.6 40.0#
 141 193.8 40.7 61.1#



#61
 4-Nitroaniline
 Concen: 28.575 ng/ul
 RT: 15.36 min Scan# 2103
 Delta R.T. 0.01 min
 Lab File: BM019615.D
 Acq: 30 Mar 2019 12:33

Tgt Ion:138 Resp: 499
 Ion Ratio Lower Upper
 138 100
 92 187.7 38.2 57.4#
 108 66.2 70.0 105.0#





#64

4,6-Dinitro-2-methylphenol

Concen: 223.728 ng/ul

RT: 15.31 min Scan# 2095

Delta R.T. -0.09 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

ClientSampleId :

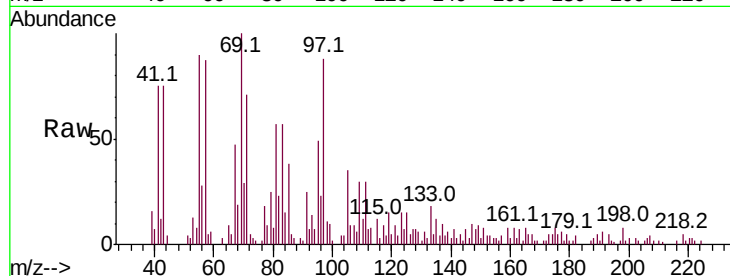
Tot Ion:198 Resp: 2077

Ion Ratio Lower Upper

198 100

182 57.6 3.5 5.3#

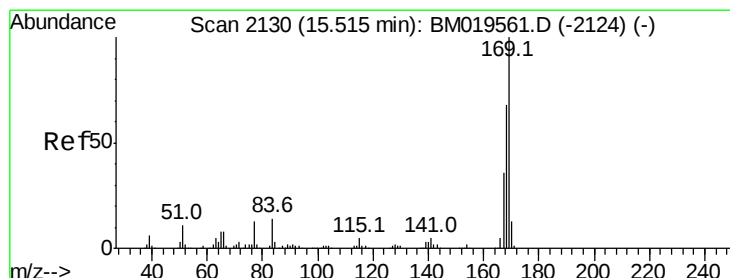
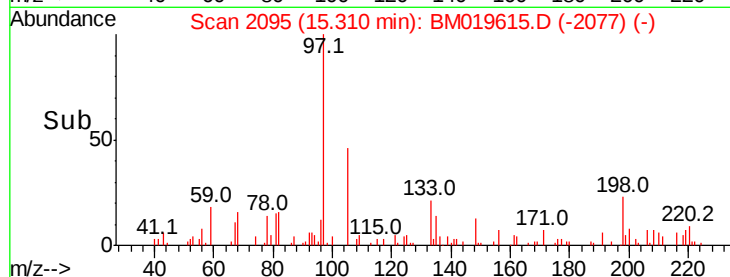
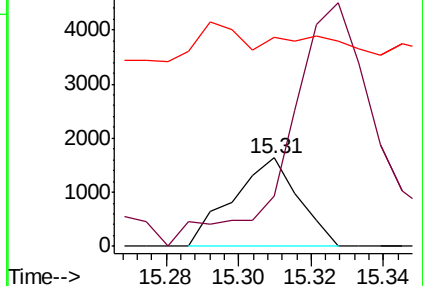
77 237.0 18.2 27.4#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): E



#65

N-Nitrosodiphenylamine

Concen: 286.084 ng/ul

RT: 15.48 min Scan# 2124

Delta R.T. -0.04 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

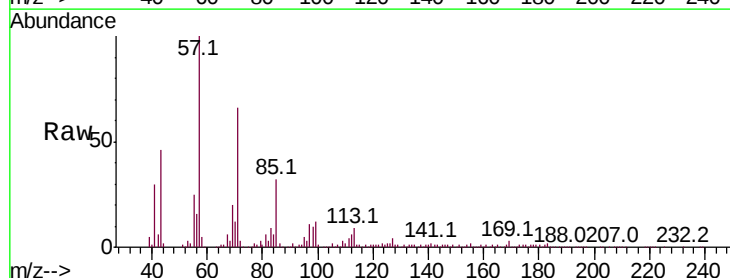
Tgt Ion:169 Resp: 11802

Ion Ratio Lower Upper

169 100

168 40.9 53.8 80.8#

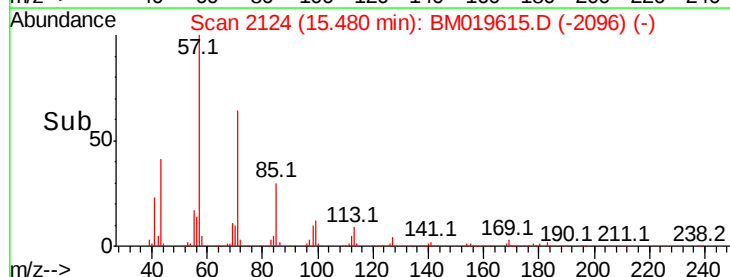
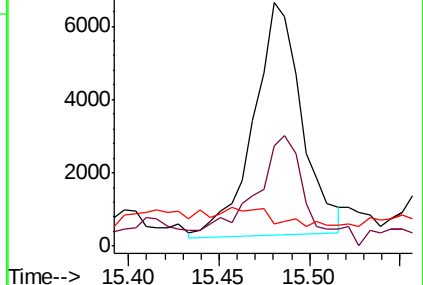
167 9.3 29.5 44.3#

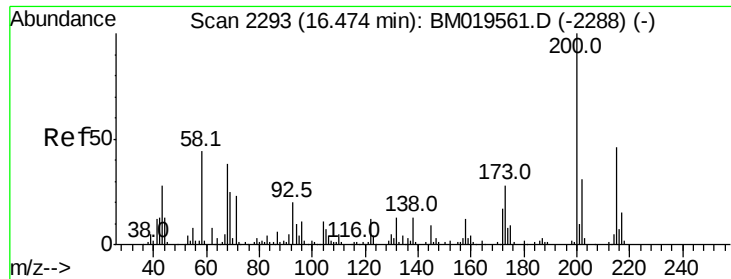


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

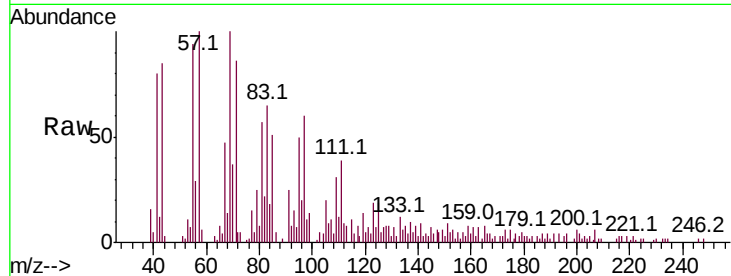




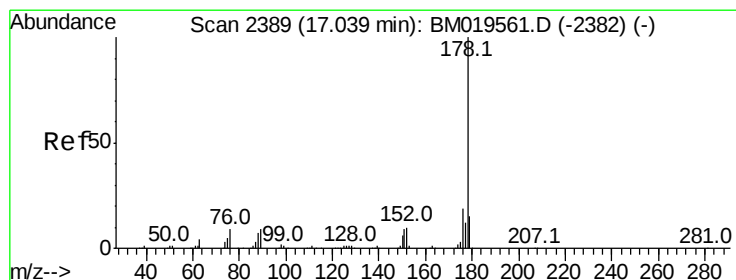
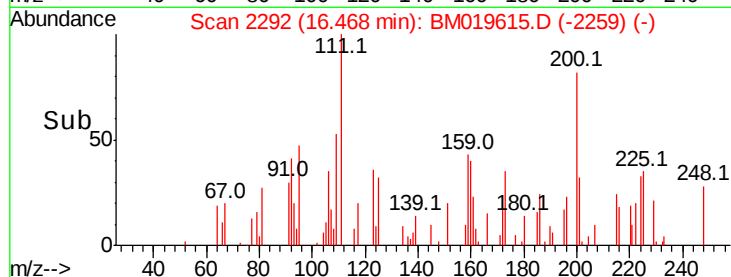
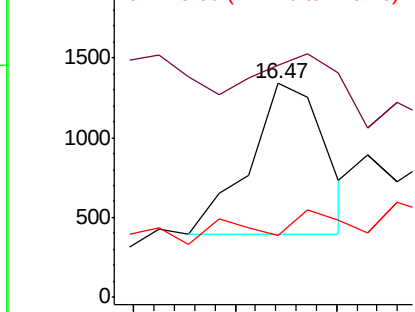
#68
 Atrazine
 Concen: 67.743 ng/ul
 RT: 16.47 min Scan# 2292
 Delta R.T. -0.01 min
 Lab File: BM019615.D
 Acq: 30 Mar 2019 12:33

Instrument :
 BNA_M
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
200	100		
173	108.4	20.6	31.0#
215	29.2	39.8	59.6#

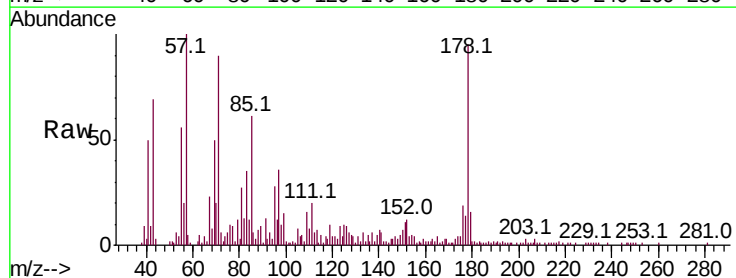


Abundance Ion 200.00 (199.70 to 200.70): E
 Ion 173.00 (172.70 to 173.70): E
 Ion 215.00 (214.70 to 215.70): E

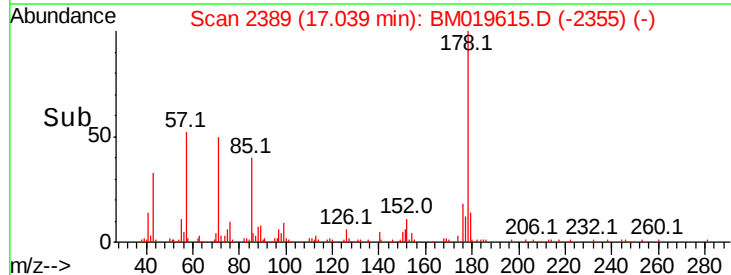
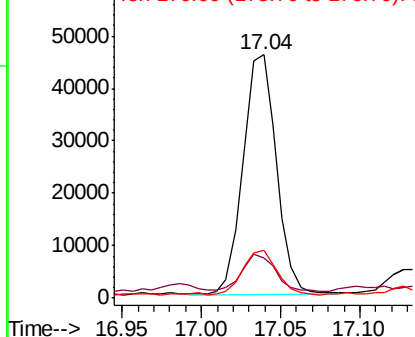


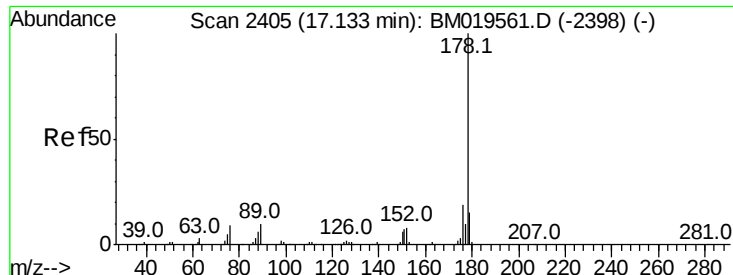
#70
 Phenanthrene
 Concen: 893.419 ng/ul
 RT: 17.04 min Scan# 2389
 Delta R.T. 0.00 min
 Lab File: BM019615.D
 Acq: 30 Mar 2019 12:33

Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.6	12.3	18.5
176	19.7	15.4	23.0



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 880.577 ng/ul

RT: 17.04 min Scan# 2389

Delta R.T. -0.09 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

ClientSampleId :

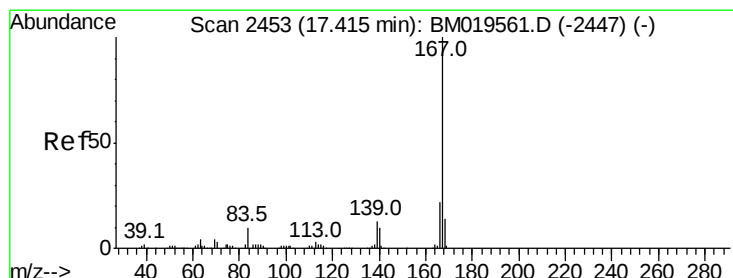
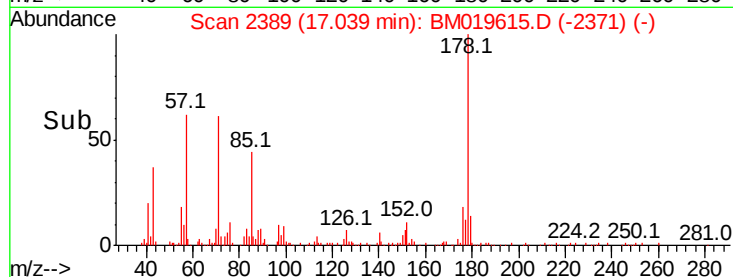
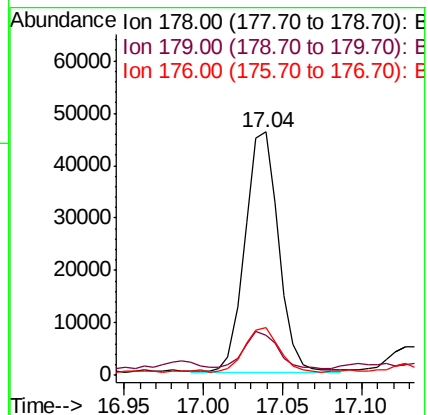
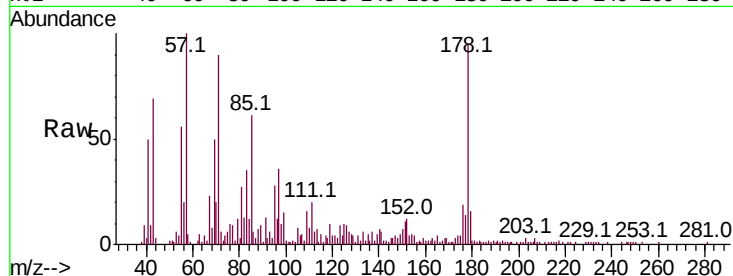
Tot Ion:178 Resp: 67541

Ion Ratio Lower Upper

178 100

179 16.6 13.4 20.2

176 19.7 15.4 23.0



#75

Carbazole

Concen: 91.455 ng/ul

RT: 17.43 min Scan# 2455

Delta R.T. 0.01 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

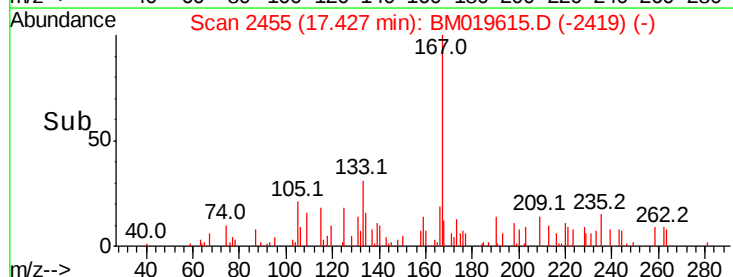
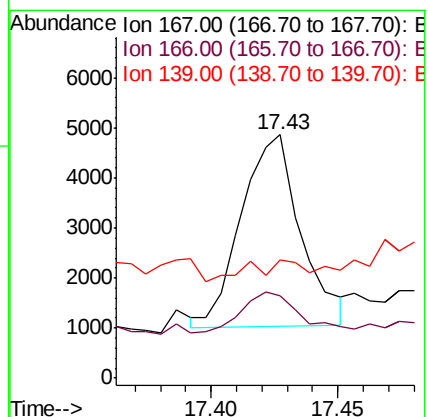
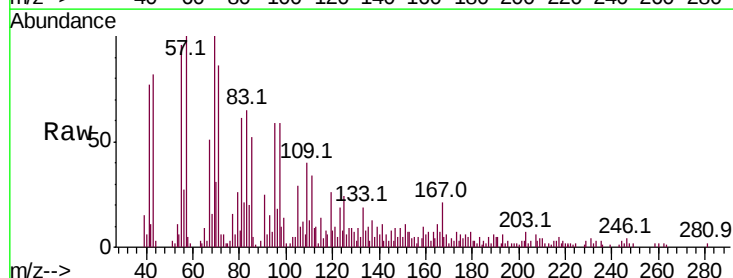
Tgt Ion:167 Resp: 6291

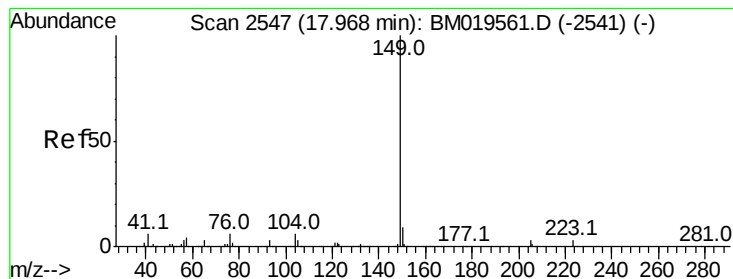
Ion Ratio Lower Upper

167 100

166 33.9 17.0 25.4#

139 48.5 9.1 13.7#





#76

Di-n-butylphthalate

Concen: 7.384 ng/ul

RT: 17.99 min Scan# 2550

Delta R.T. 0.02 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

ClientSampled :

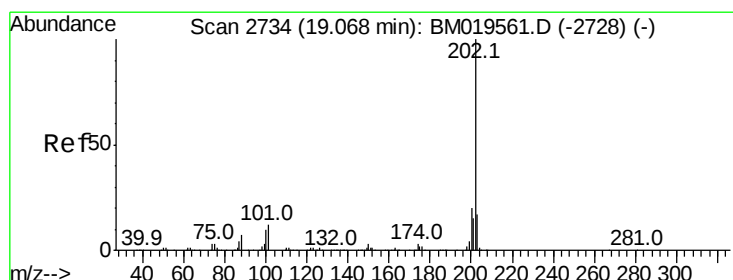
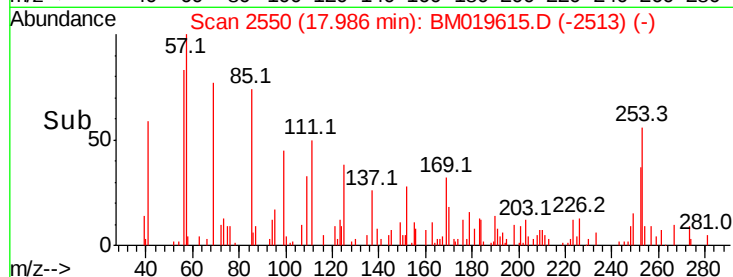
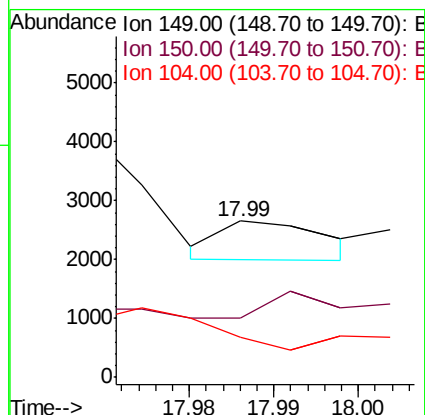
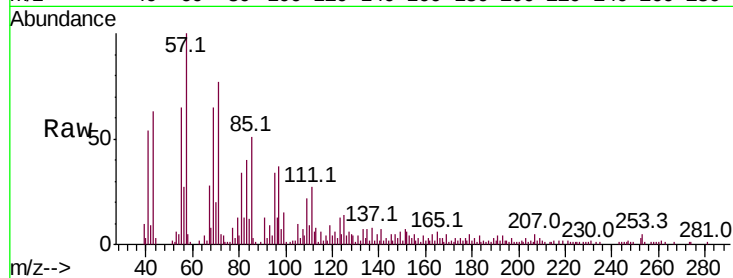
Tot Ion:149 Resp: 563

Ion Ratio Lower Upper

149 100

150 37.6 7.5 11.3#

104 26.0 4.1 6.1#



#77

Fluoranthene

Concen: 1388.850 ng/ul

RT: 19.06 min Scan# 2733

Delta R.T. -0.01 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

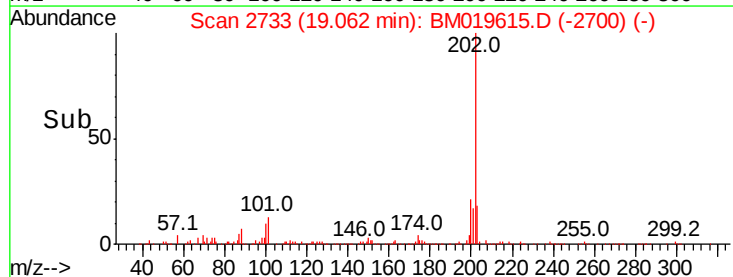
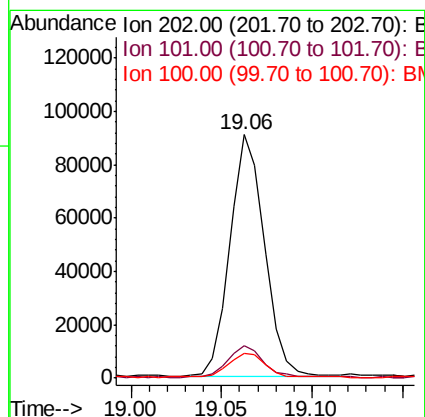
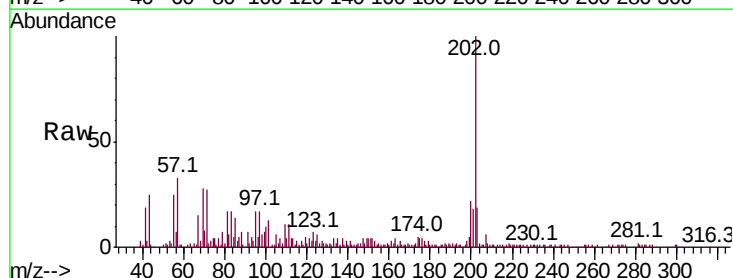
Tgt Ion:202 Resp: 119649

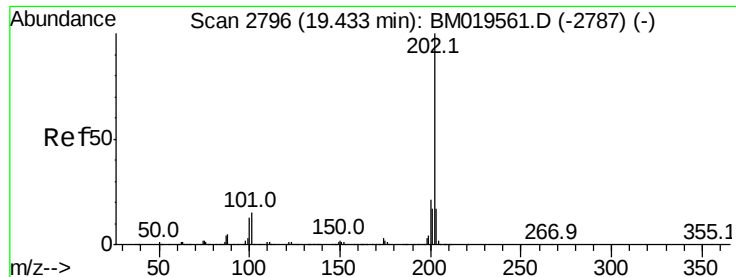
Ion Ratio Lower Upper

202 100

101 13.4 6.1 9.1#

100 10.0 4.6 7.0#

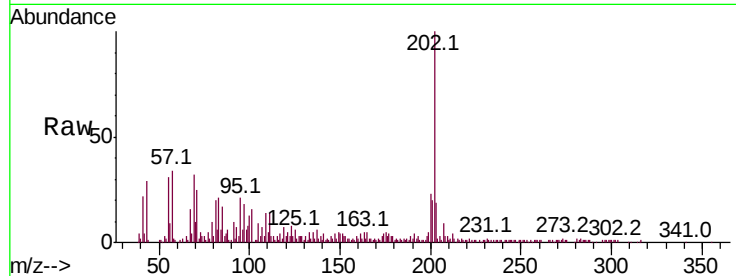




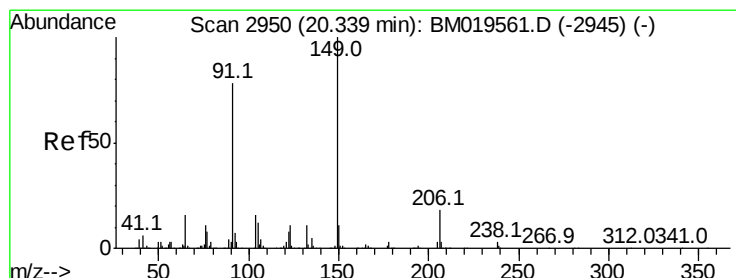
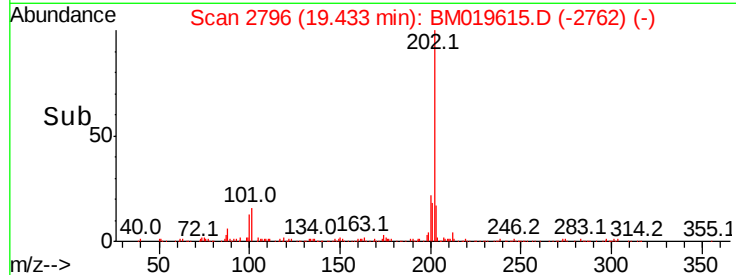
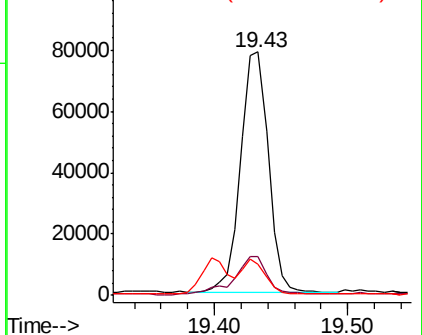
#80
Pvrene
Concen: 806.359 ng/ul
RT: 19.43 min Scan# 2796
Delta R.T. 0.00 min
Lab File: BM019615.D
Acq: 30 Mar 2019 12:33

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	16.1	6.9	10.3#
100	13.0	5.6	8.4#

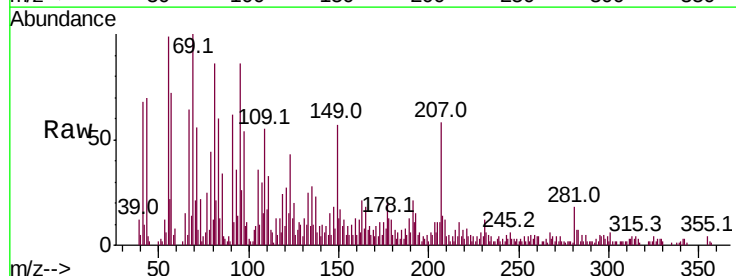


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B

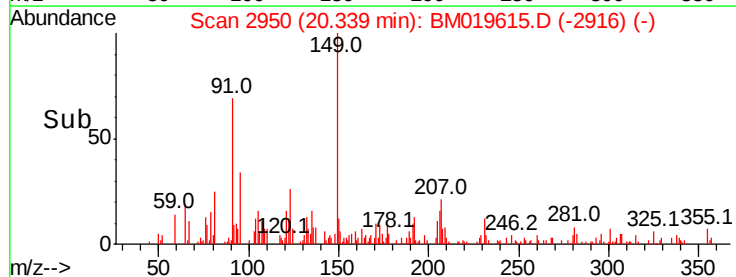
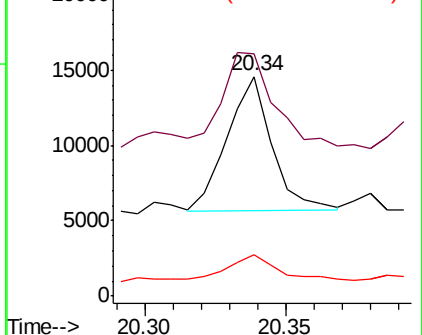


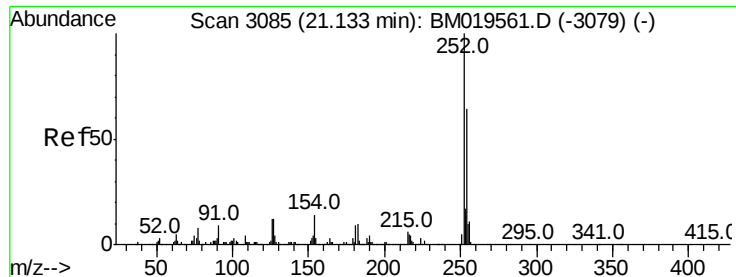
#81
Butylbenzylphthalate
Concen: 177.015 ng/ul
RT: 20.34 min Scan# 2950
Delta R.T. 0.00 min
Lab File: BM019615.D
Acq: 30 Mar 2019 12:33

Tgt Ion	Ratio	Lower	Upper
149	100		
91	110.2	53.4	80.0#
206	18.7	19.3	28.9#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BM
Ion 206.00 (205.70 to 206.70): E





#82

3,3'-Dichlorobenzidine

Concen: 10.795 ng/ul

RT: 21.13 min Scan# 3085

Delta R.T. 0.00 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

ClientSampled :

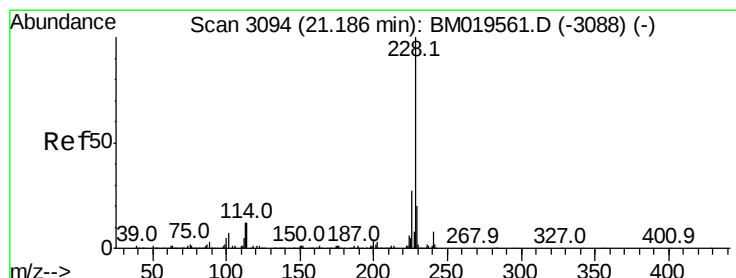
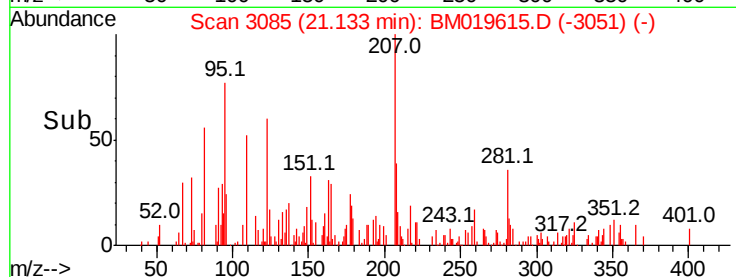
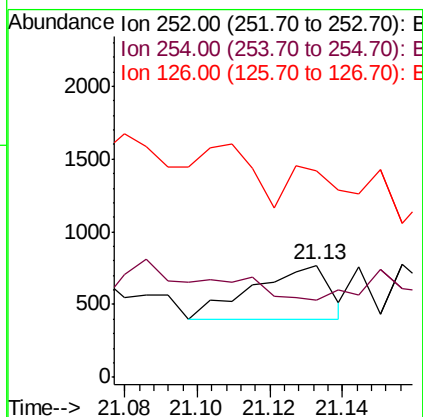
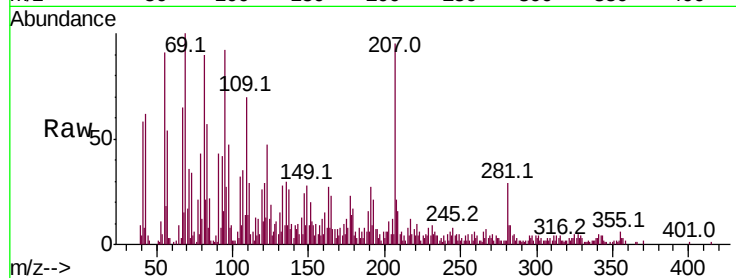
Tot Ion:252 Resp: 549

Ion Ratio Lower Upper

252 100

254 68.9 52.8 79.2

126 184.0 6.9 10.3#



#83

Benzo(a)anthracene

Concen: 414.689 ng/ul

RT: 21.19 min Scan# 3094

Delta R.T. 0.00 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

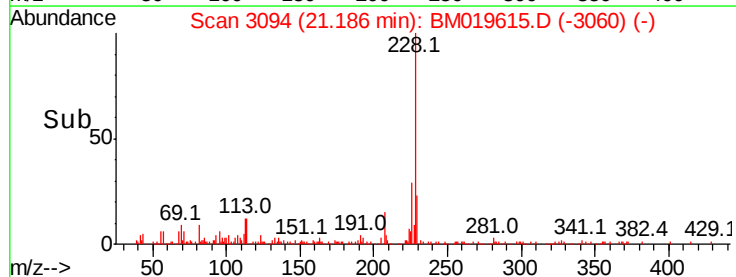
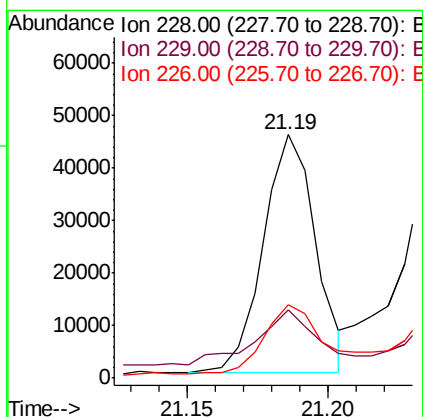
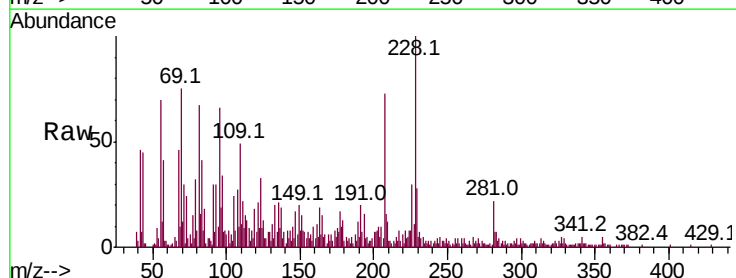
Tgt Ion:228 Resp: 58431

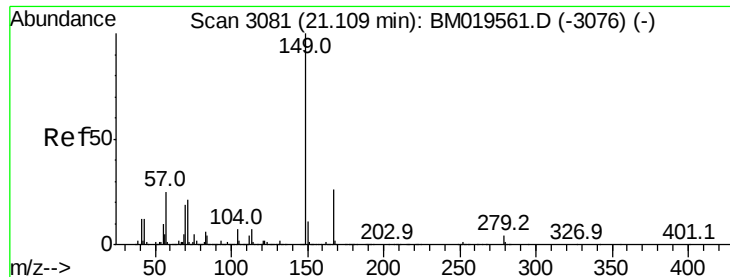
Ion Ratio Lower Upper

228 100

229 27.9 16.0 24.0#

226 30.0 21.8 32.8





#84

Bis(2-ethylhexyl)phthalate

Concen: 156.631 ng/ul

RT: 21.11 min Scan# 3081

Delta R.T. 0.00 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

Instrument :

BNA_M

ClientSampleId :

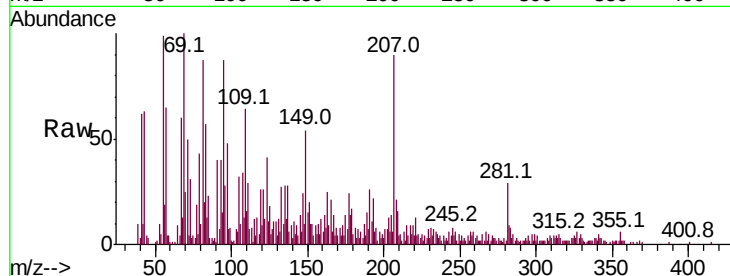
Tot Ion:149 Resp: 12660

Ion Ratio Lower Upper

149 100

167 26.4 23.0 34.6

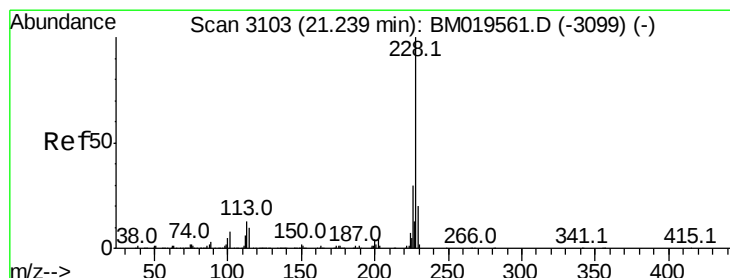
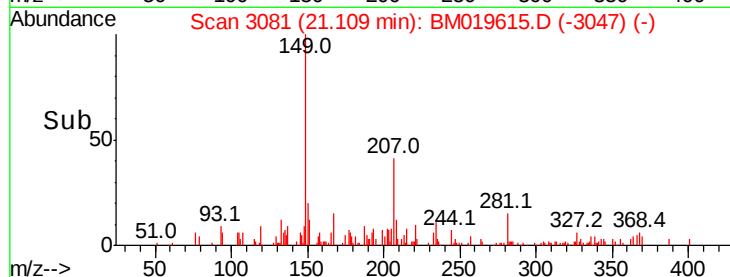
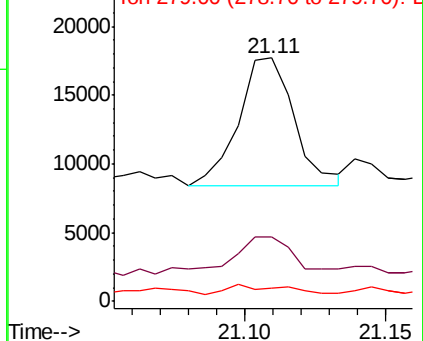
279 5.5 4.3 6.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Chrysene

Concen: 522.846 ng/ul

RT: 21.24 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BM019615.D

Acq: 30 Mar 2019 12:33

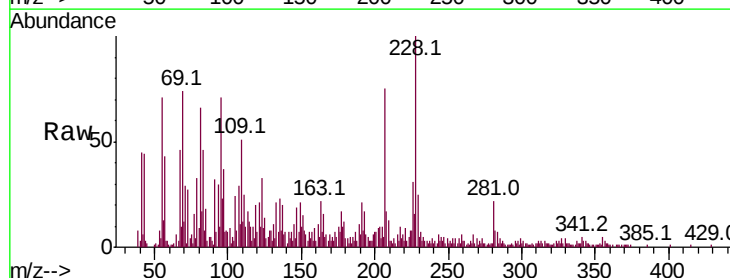
Tgt Ion:228 Resp: 70689

Ion Ratio Lower Upper

228 100

226 31.2 24.1 36.1

229 24.7 16.0 24.0#



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

