

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121817\
 Data File : BM013501.D
 Acq On : 18 Dec 2017 16:36
 Operator : SJ/JU
 Sample : I6778-14MEDL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Dec 19 00:43:57 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Dec 19 00:41:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	221449	20.00	ng/ul	0.00
18) Naphthalene-d8	10.46	136	947547	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.32	164	533001	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.07	188	1086485	20.00	ng/ul	0.01
75) Chrysene-d12	21.26	240	875500	20.00	ng/ul	0.00
83) Perylene-d12	23.48	264	742474	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	3000	0.67	ng/uL	0.00
5) Phenol-d5	6.86	99	72529	3.78	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.02	67	42171	3.86	ng/ul	0.00
9) 2-Chlorophenol-d4	7.21	132	59902	4.00	ng/ul	0.00
13) 4-Methylphenol-d8	8.38	113	63243	3.86	ng/ul	0.00
19) Nitrobenzene-d5	8.83	128	35297	4.70	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	35207	4.38	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.09	165	69570	4.20	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	49573	3.25	ng/ul	0.00
43) Dimethylphthalate-d6	13.73	166	211393	4.46	ng/ul	0.00
46) Acenaphthylene-d8	14.00	160	262673	4.49	ng/ul	0.00
51) 4-Nitrophenol-d4	14.55	143	25901	3.14	ng/ul	0.02
57) Fluorene-d10	15.32	176	179066	4.39	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.47	200	9862	1.44	ng/ul	0.02
70) Anthracene-d10	17.17	188	257742	4.74	ng/ul	0.01
76) Pyrene-d10	19.47	212	257435	5.90	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.34	264	173888	4.60	ng/ul	0.00

Target Compounds

					Ovalue	
30) 4-Chloroaniline	10.53	127	4841719	328.333	ng/ul#	18
34) 2-Methylnaphthalene	12.13	142	7288348	198.881	ng/ul	95
40) 1,1'-Biphenyl	13.15	154	1966965	43.665	ng/ul	97
47) Acenaphthylene	14.04	152	847036	15.638	ng/ul#	94
49) Acenaphthene	14.39	153	7405527	200.703	ng/ul	99
53) Dibenzofuran	14.73	168	7714868	141.632	ng/ul	99
54) 2,4-Dinitrotoluene	14.68	165	20380	1.514	ng/ul#	36
58) Fluorene	15.38	166	8877467	197.004	ng/ul	99
60) 4-Nitroaniline	15.38	138	103248	10.582	ng/ul#	13
64) N-Nitrosodiphenylamine	15.58	169	83825	2.619	ng/ul#	1
68) Pentachlorophenol	16.73	266	8673	1.065	ng/ul#	79
69) Phenanthrene	17.21	178	4938568	80.009	ng/ul	98
71) Anthracene	17.21	178	4938568	78.274	ng/ul	99
72) Carbazole	17.48	167	2131960	39.285	ng/ul	99
74) Fluoranthene	19.14	202	14788585	195.506	ng/ul#	85
77) Pyrene	19.50	202	10972137	206.286	ng/ul#	90
80) Benzo(a)anthracene	21.24	228	2722816	49.017	ng/ul	97
82) Chrysene	21.30	228	2176036	42.225	ng/ul	97
85) Benzo(b)fluoranthene	22.82	252	1568404	31.336	ng/ul#	98
86) Benzo(k)fluoranthene	22.82	252	1568404	33.298	ng/ul#	98
88) Benzo(a)pyrene	23.39	252	1017725	22.636	ng/ul#	98
89) Indeno(1,2,3-cd)pyrene	25.71	276	430033	9.640	ng/ul#	95
90) Dibenzo(a,h)anthracene	25.71	278	124447	3.276	ng/ul#	79

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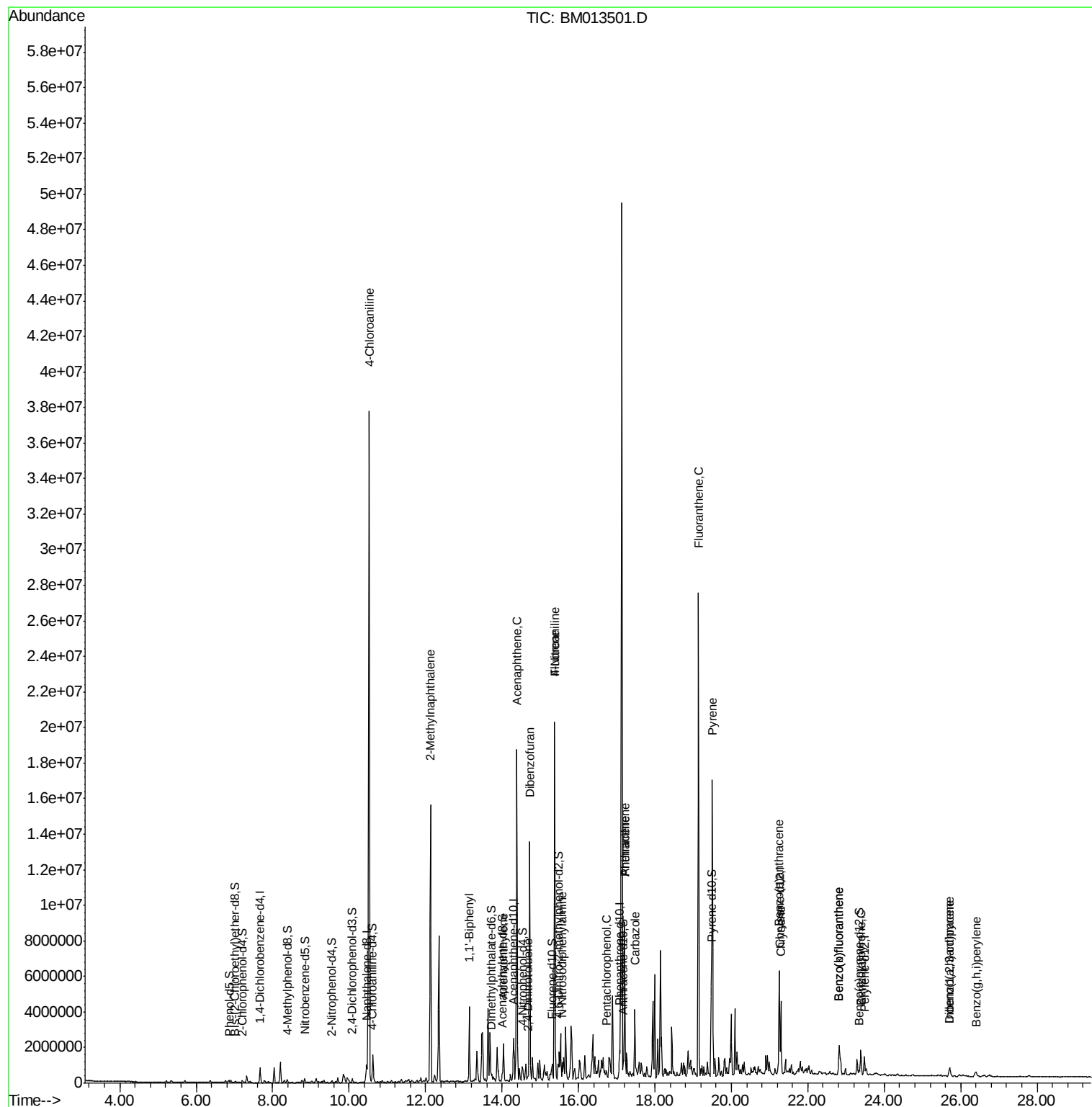
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(q,h,i)perylene	26.40	276	325762	9.258	ng/ul#	93

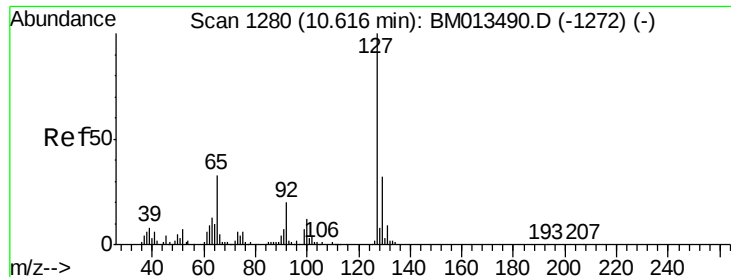
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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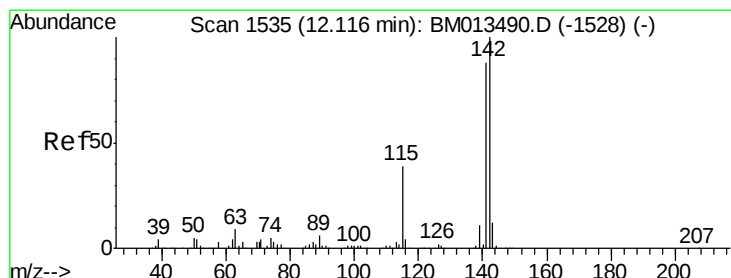
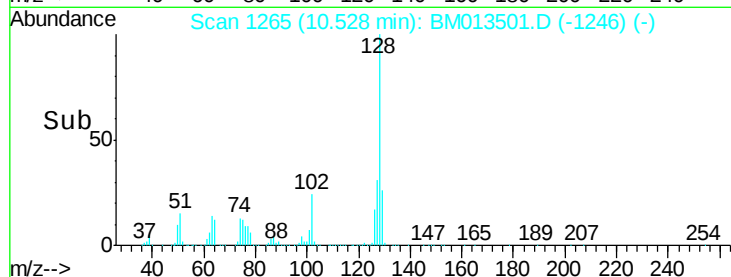
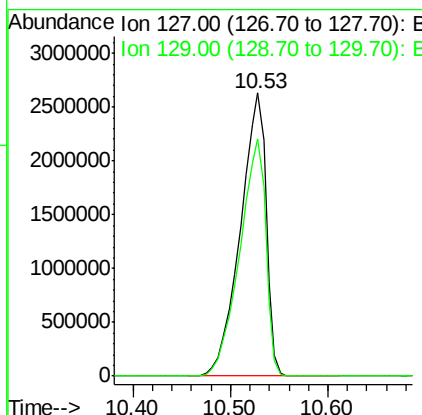
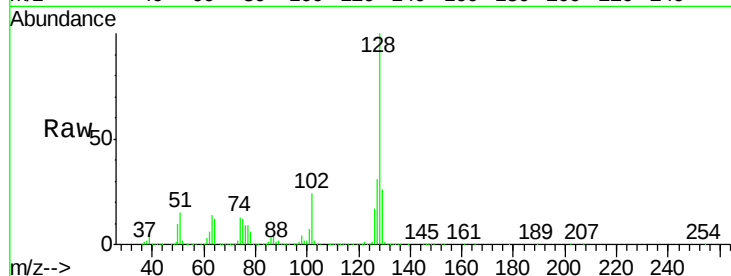




#30
4-Chloroaniline
Concen: 328.333 ng/ul
RT: 10.53 min Scan# 1265
Delta R.T. -0.09 min
Lab File: BM013501.D
Acq: 18 Dec 2017 16:36

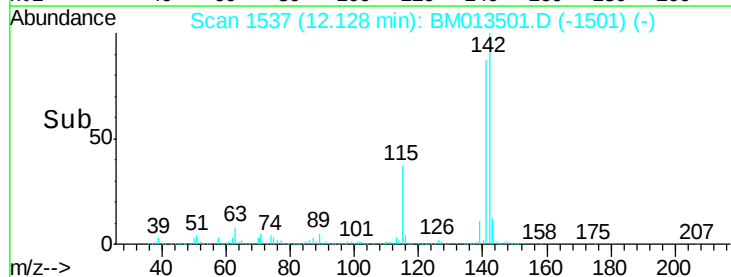
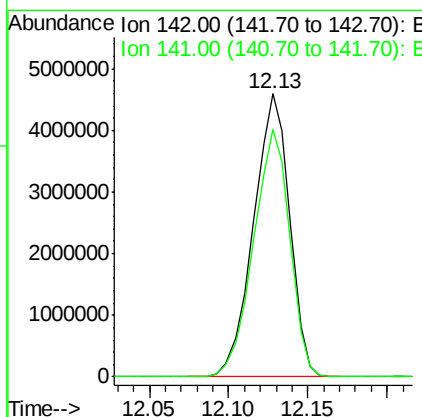
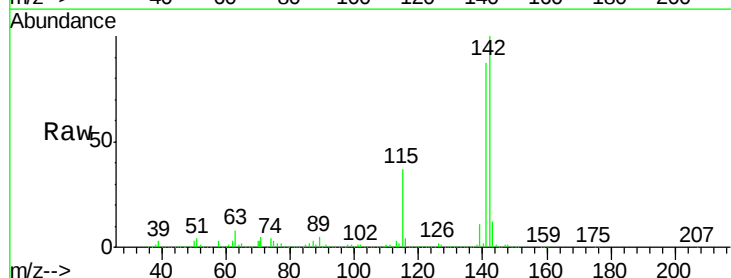
Instrument :
BNA_M
ClientSampleId :

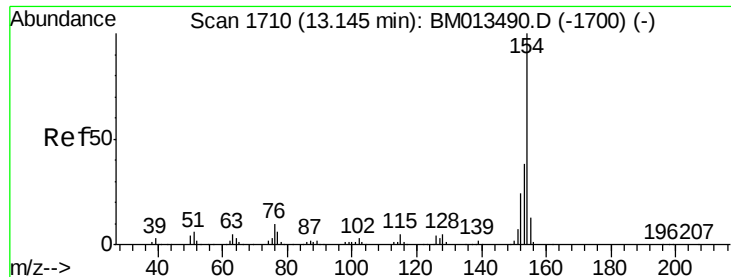
Tot Ion:127 Resp: 4841719
Ion Ratio Lower Upper
127 100
129 83.6 28.4 42.6#



#34
2-Methylnaphthalene
Concen: 198.881 ng/ul
RT: 12.13 min Scan# 1537
Delta R.T. 0.01 min
Lab File: BM013501.D
Acq: 18 Dec 2017 16:36

Tgt Ion:142 Resp: 7288348
Ion Ratio Lower Upper
142 100
141 87.5 74.1 111.1

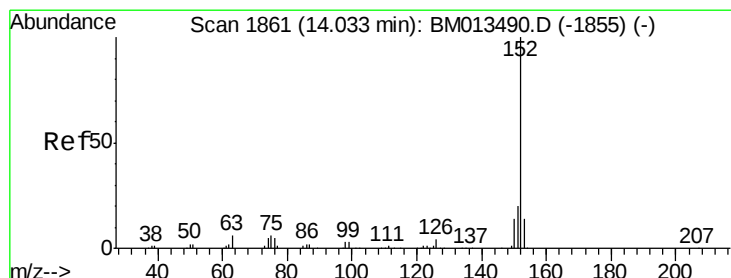
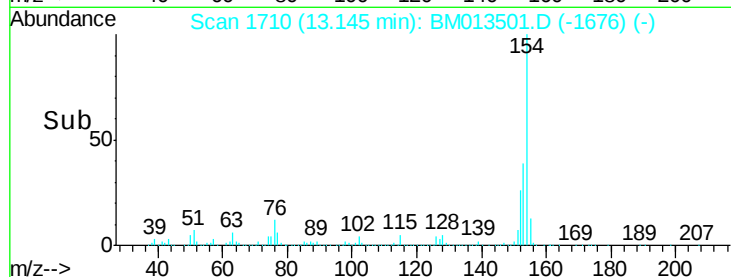
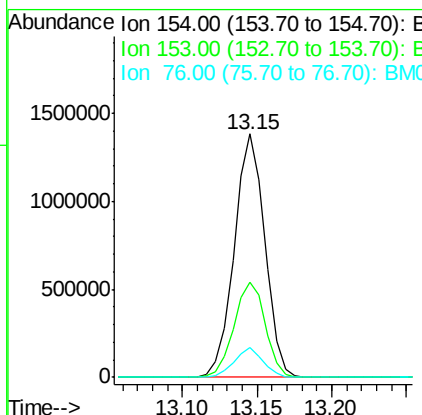
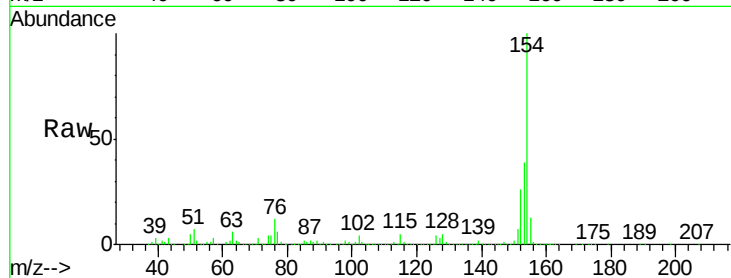




#40
 1,1'-Biphenyl
 Concen: 43.665 ng/ul
 RT: 13.15 min Scan# 1710
 Delta R.T. 0.00 min
 Lab File: BM013501.D
 Acq: 18 Dec 2017 16:36

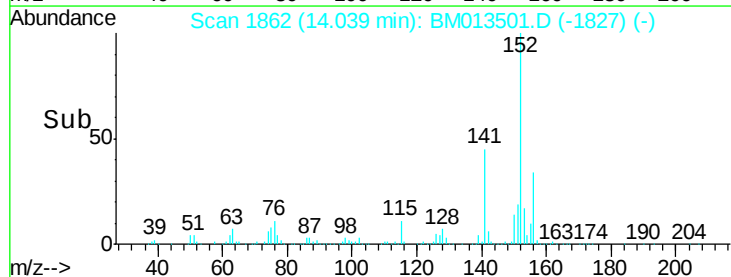
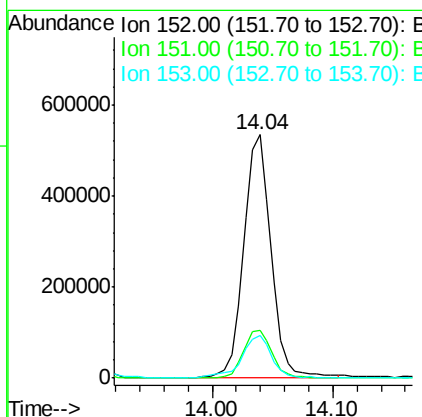
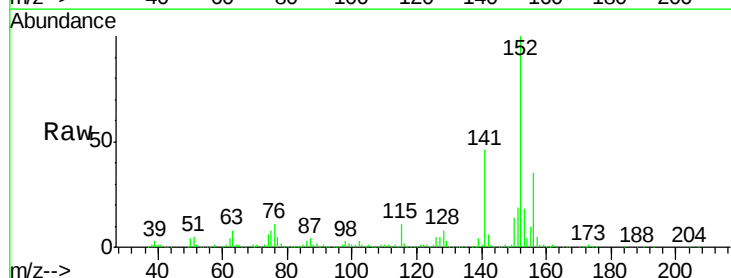
Instrument :
 BNA_M
 ClientSampleId :

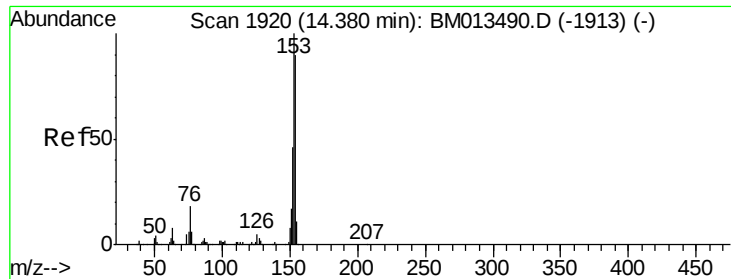
Tot Ion:154 Resp: 1966965
 Ion Ratio Lower Upper
 154 100
 153 39.3 32.6 48.8
 76 12.2 8.5 12.7



#47
 Acenaphthylene
 Concen: 15.638 ng/ul
 RT: 14.04 min Scan# 1862
 Delta R.T. 0.01 min
 Lab File: BM013501.D
 Acq: 18 Dec 2017 16:36

Tgt Ion:152 Resp: 847036
 Ion Ratio Lower Upper
 152 100
 151 19.4 16.3 24.5
 153 17.7 10.2 15.4#





#49

Acenaphthene

Concen: 200.703 ng/ul

RT: 14.39 min Scan# 1922

Delta R.T. 0.01 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

Instrument :

BNA_M

ClientSampleId :

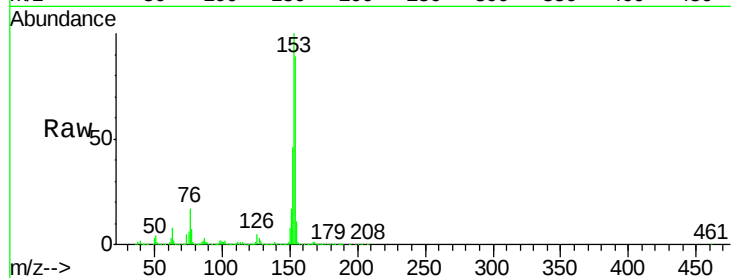
Tot Ion:153 Resp: 7405527

Ion Ratio Lower Upper

153 100

152 46.5 37.6 56.4

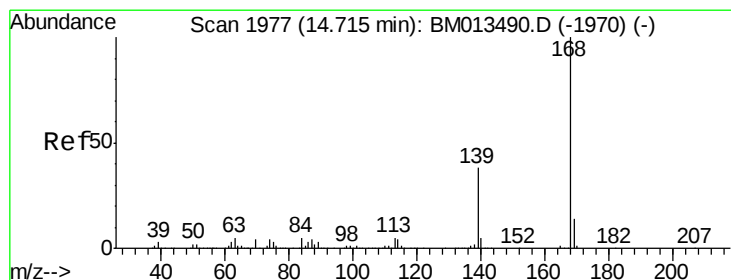
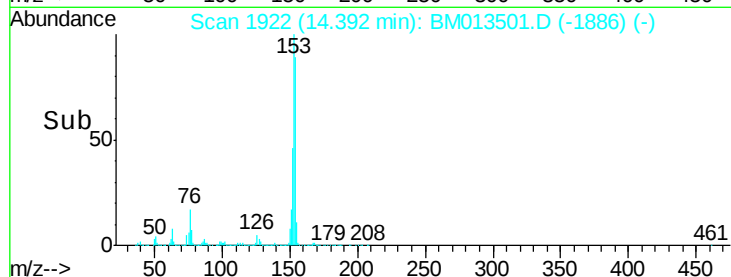
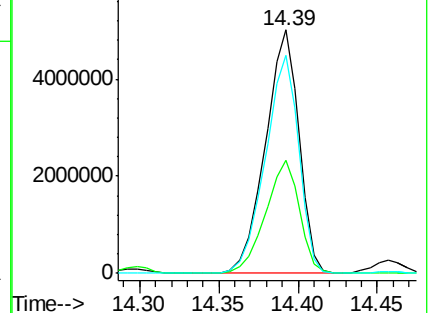
154 89.5 70.4 105.6



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: 141.632 ng/ul

RT: 14.73 min Scan# 1979

Delta R.T. 0.01 min

Lab File: BM013501.D

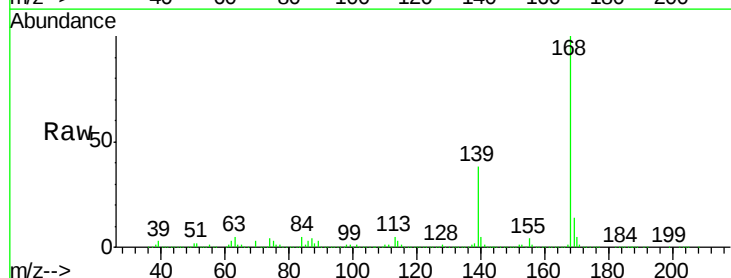
Acq: 18 Dec 2017 16:36

Tgt Ion:168 Resp: 7714868

Ion Ratio Lower Upper

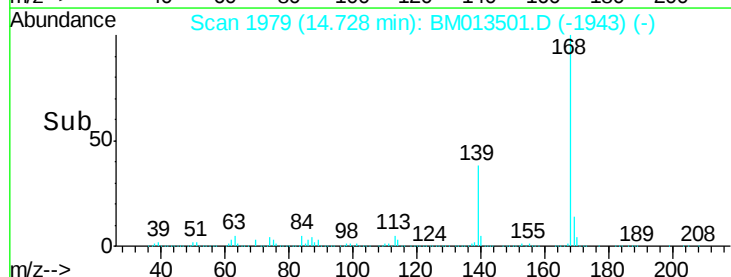
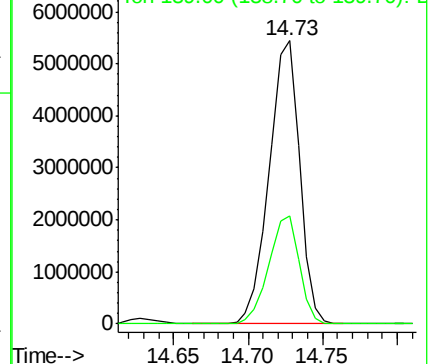
168 100

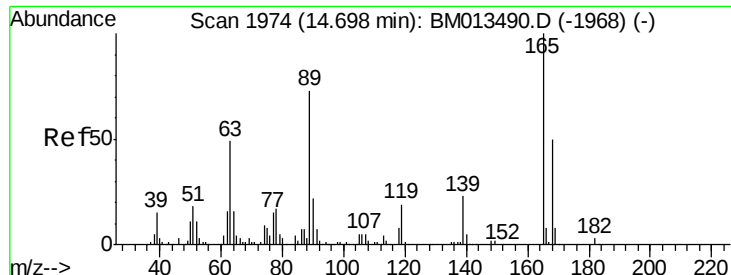
139 38.0 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

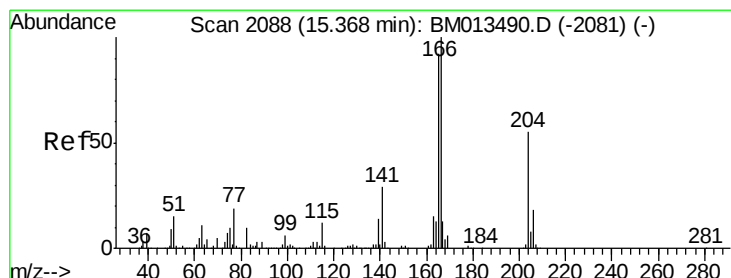
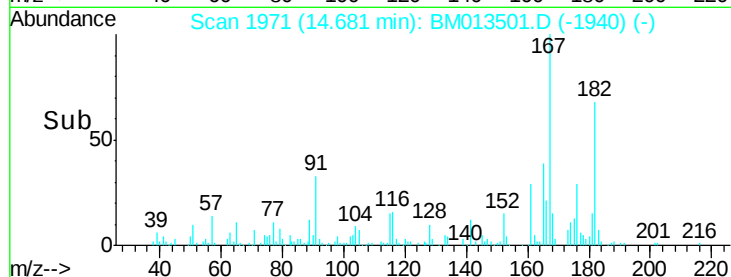
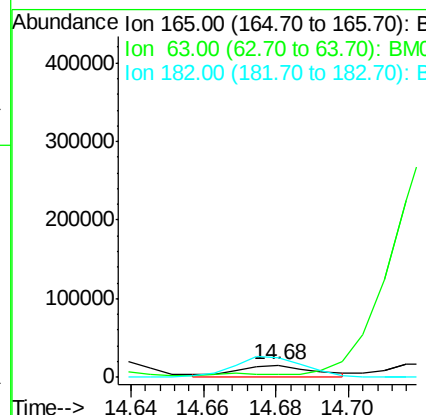
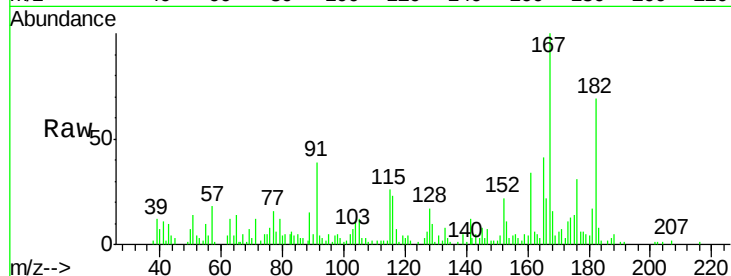




#54
2,4-Dinitrotoluene
Concen: 1.514 ng/ul
RT: 14.68 min Scan# 1971
Delta R.T. -0.02 min
Lab File: BM013501.D
Acq: 18 Dec 2017 16:36

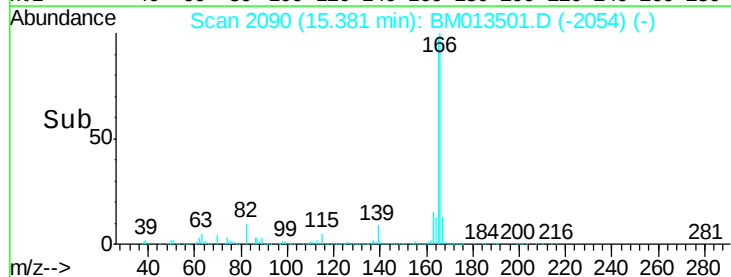
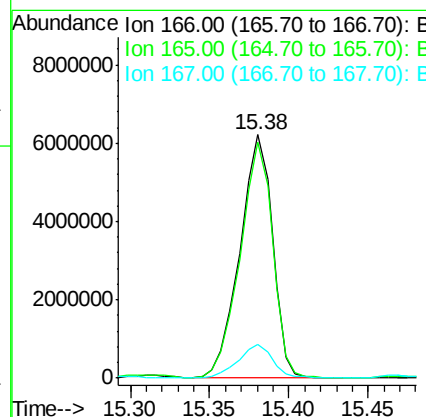
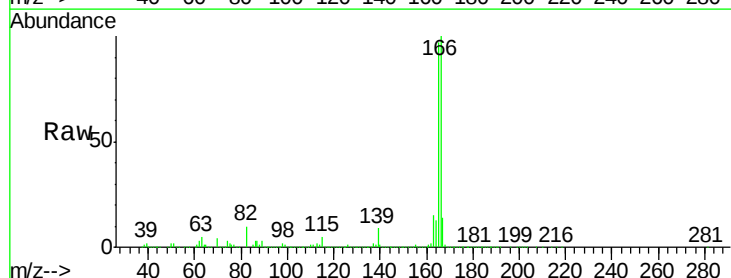
Instrument :
BNA_M
ClientSampleId :

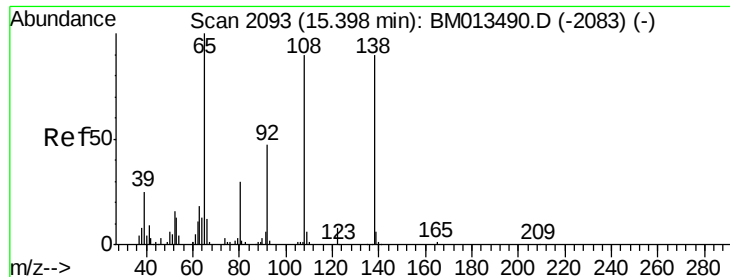
Tot Ion:165 Resp: 20380
Ion Ratio Lower Upper
165 100
63 28.8 45.8 68.8#
182 168.5 2.6 4.0#



#58
Fluorene
Concen: 197.004 ng/ul
RT: 15.38 min Scan# 2090
Delta R.T. 0.01 min
Lab File: BM013501.D
Acq: 18 Dec 2017 16:36

Tgt Ion:166 Resp: 8877467
Ion Ratio Lower Upper
166 100
165 96.8 77.9 116.9
167 13.7 10.6 16.0

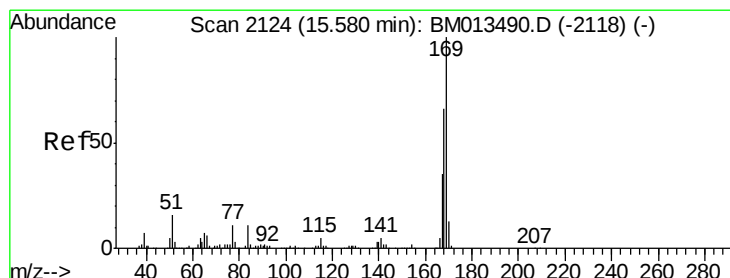
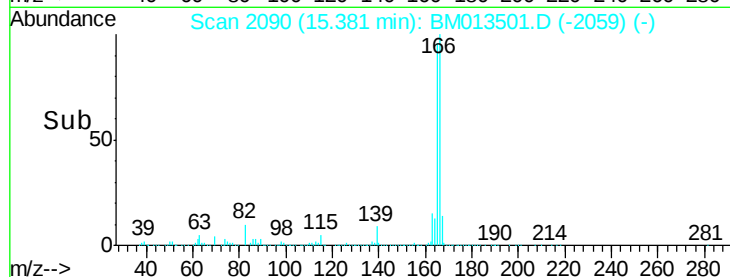
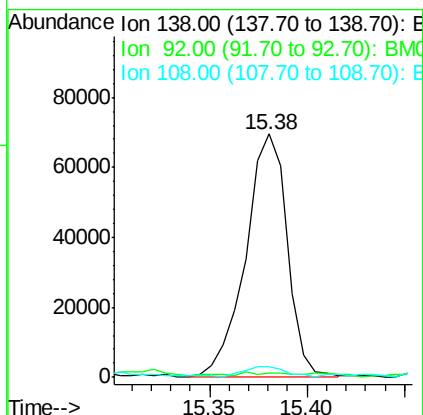
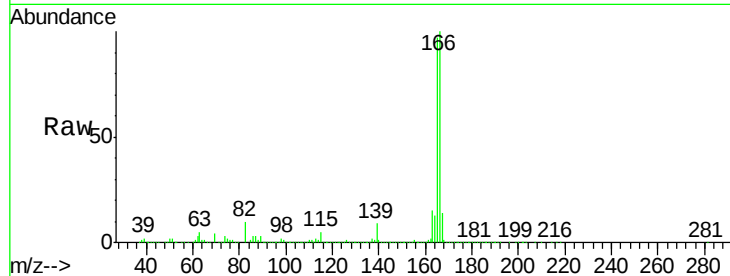




#60
4-Nitroaniline
Concen: 10.582 ng/ul
RT: 15.38 min Scan# 2090
Delta R.T. -0.02 min
Lab File: BM013501.D
Acq: 18 Dec 2017 16:36

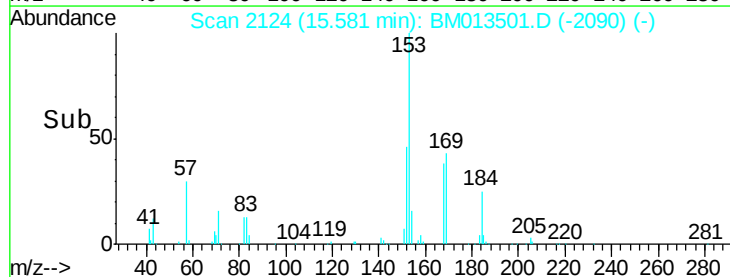
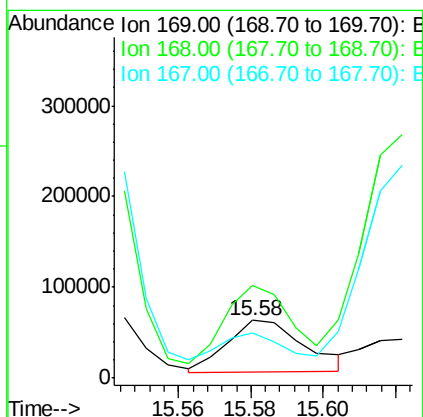
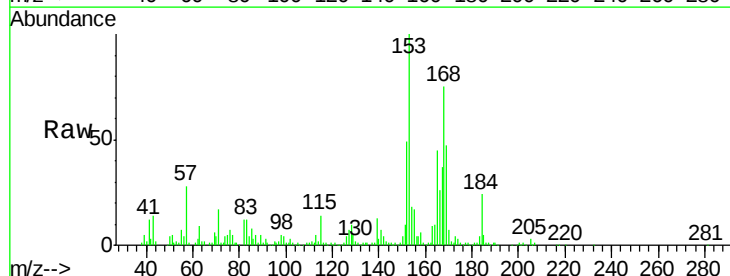
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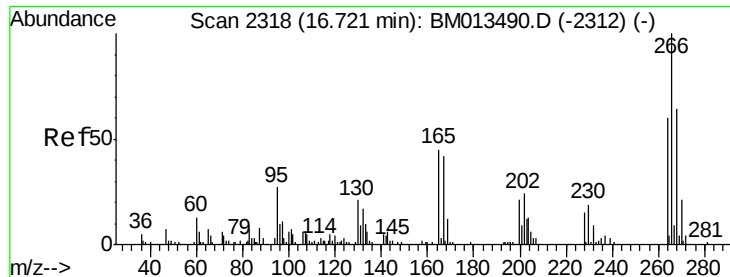
Tot Ion	Ratio	Lower	Upper
138	100		
92	2.0	40.0	60.0#
108	4.5	80.0	120.0#



#64
N-Nitrosodiphenylamine
Concen: 2.619 ng/ul
RT: 15.58 min Scan# 2124
Delta R.T. 0.00 min
Lab File: BM013501.D
Acq: 18 Dec 2017 16:36

Tgt Ion	Ratio	Lower	Upper
169	100		
168	160.8	54.0	81.0#
167	79.1	29.1	43.7#

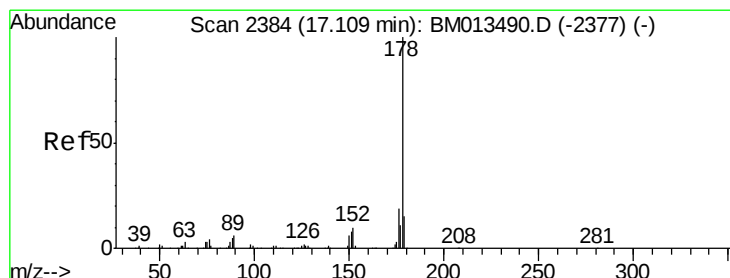
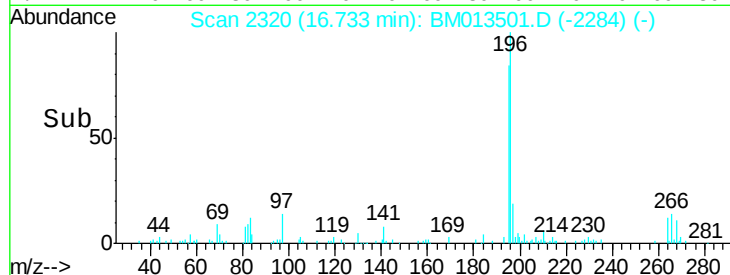
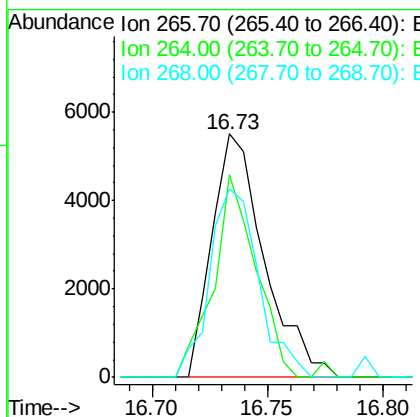
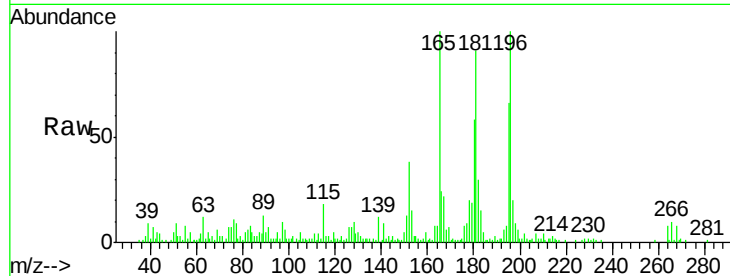




#68
 Pentachlorophenol
 Concen: 1.065 ng/ul
 RT: 16.73 min Scan# 2320
 Delta R.T. 0.01 min
 Lab File: BM013501.D
 Acq: 18 Dec 2017 16:36

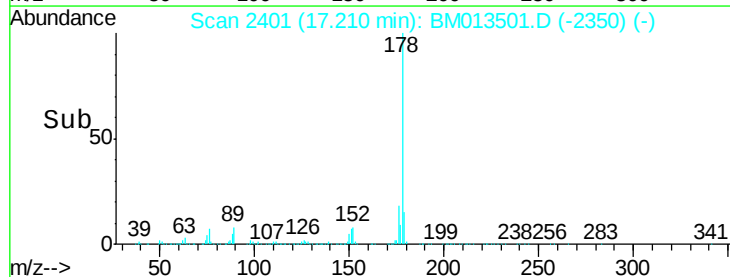
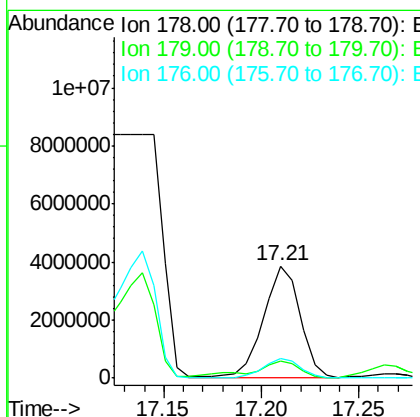
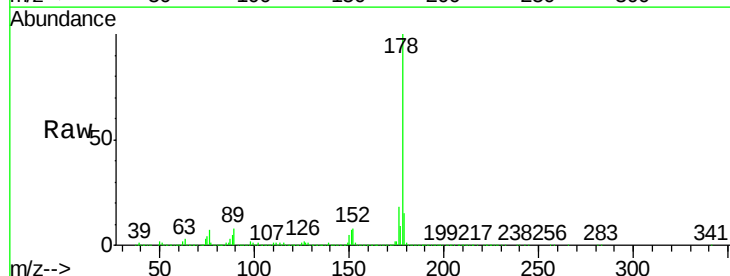
Instrument :
 BNA_M
 ClientSampleId :

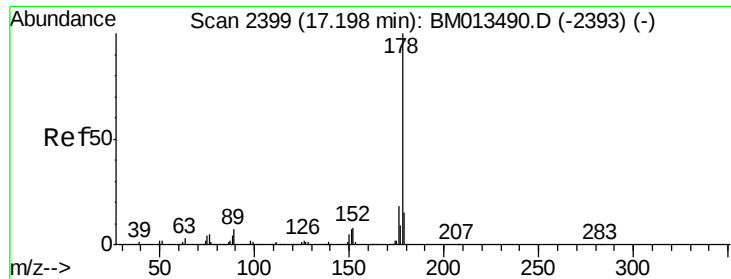
Tot Ion:266 Resp: 8673
 Ion Ratio Lower Upper
 266 100
 264 83.3 49.3 73.9#
 268 77.7 52.6 78.8



#69
 Phenanthrene
 Concen: 80.009 ng/ul
 RT: 17.21 min Scan# 2401
 Delta R.T. 0.10 min
 Lab File: BM013501.D
 Acq: 18 Dec 2017 16:36

Tgt Ion:178 Resp: 4938568
 Ion Ratio Lower Upper
 178 100
 179 15.3 12.6 19.0
 176 17.7 14.9 22.3

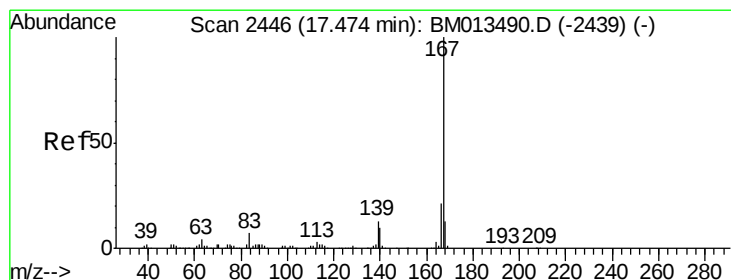
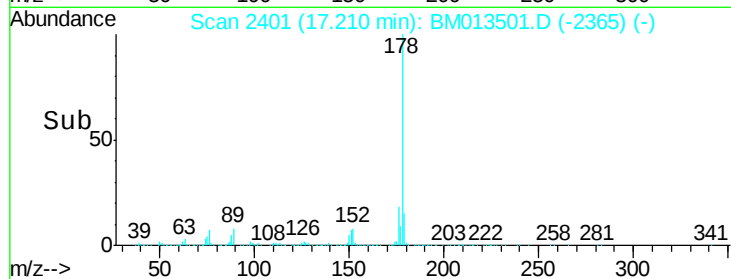
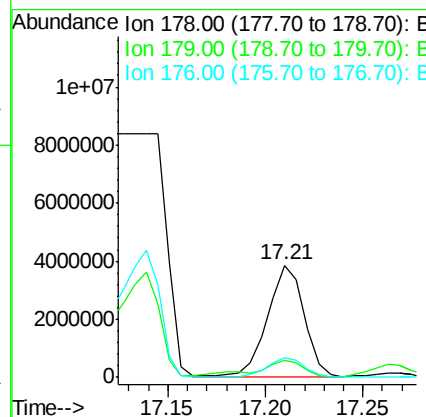
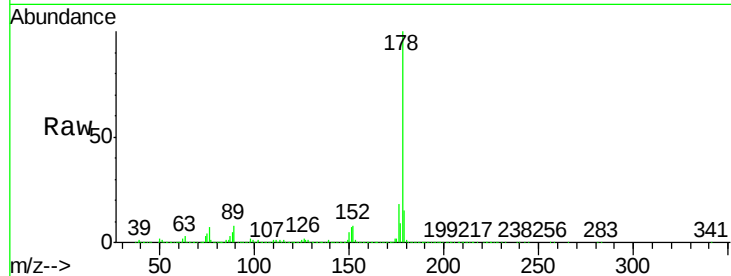




#71
 Anthracene
 Concen: 78.274 ng/ul
 RT: 17.21 min Scan# 2401
 Delta R.T. 0.01 min
 Lab File: BM013501.D
 Acq: 18 Dec 2017 16:36

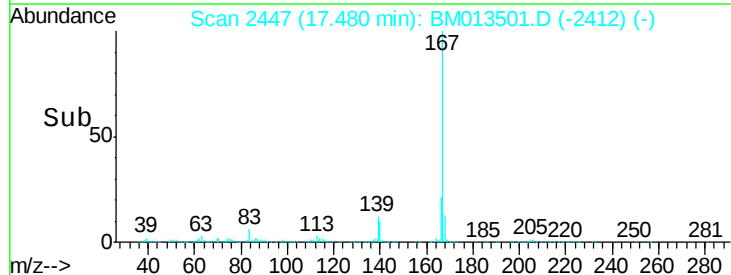
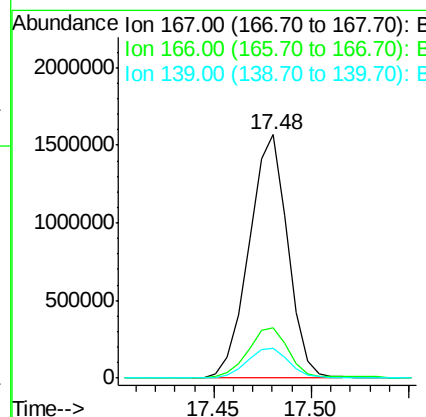
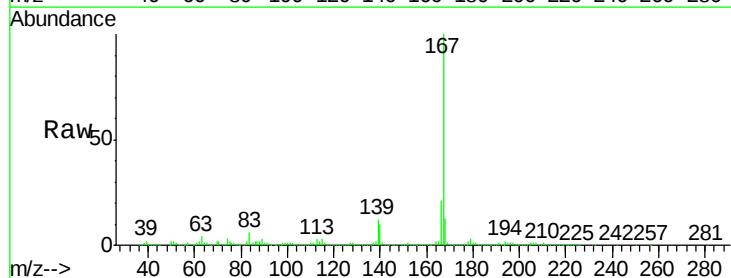
Instrument :
 BNA_M
 ClientSampleId :

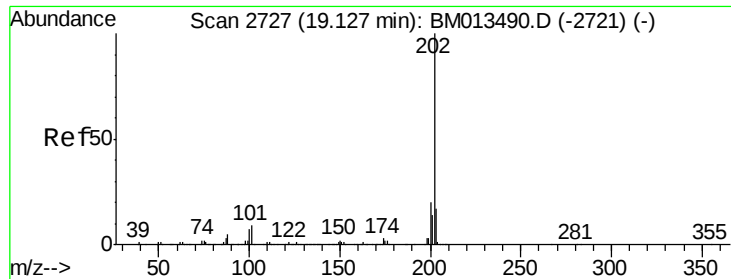
Tot Ion:178 Resp: 4938568
 Ion Ratio Lower Upper
 178 100
 179 15.3 11.7 17.5
 176 17.7 14.6 21.8



#72
 Carbazole
 Concen: 39.285 ng/ul
 RT: 17.48 min Scan# 2447
 Delta R.T. 0.01 min
 Lab File: BM013501.D
 Acq: 18 Dec 2017 16:36

Tgt Ion:167 Resp: 2131960
 Ion Ratio Lower Upper
 167 100
 166 20.9 17.1 25.7
 139 12.4 10.0 15.0

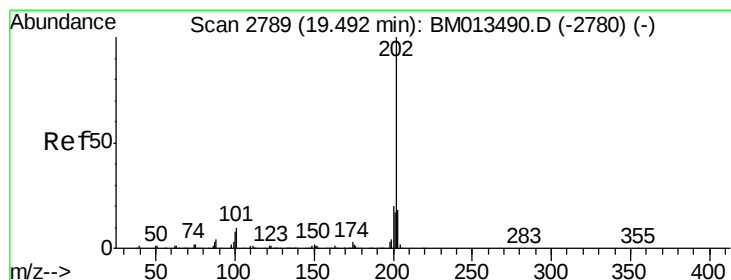
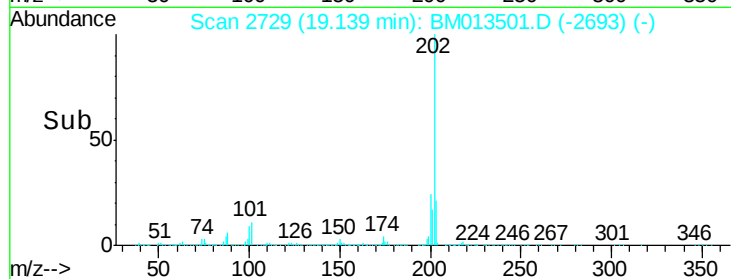
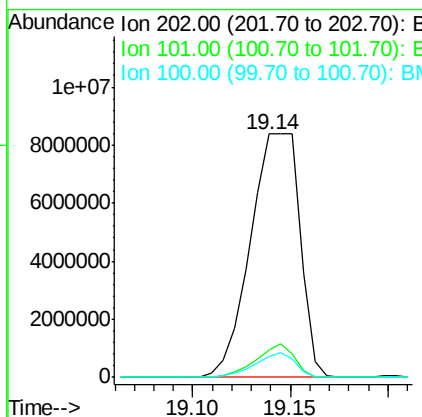
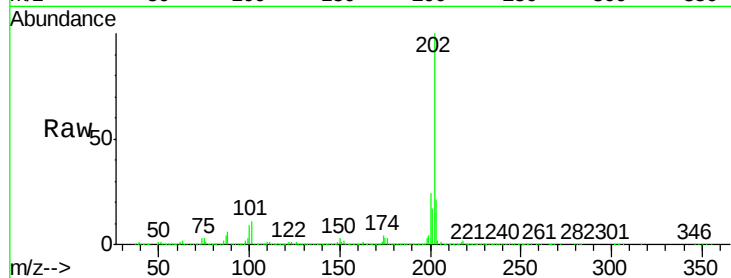




#74
Fluoranthene
Concen: 195.506 ng/ul
RT: 19.14 min Scan# 2729
Delta R.T. 0.01 min
Lab File: BM013501.D
Acq: 18 Dec 2017 16:36

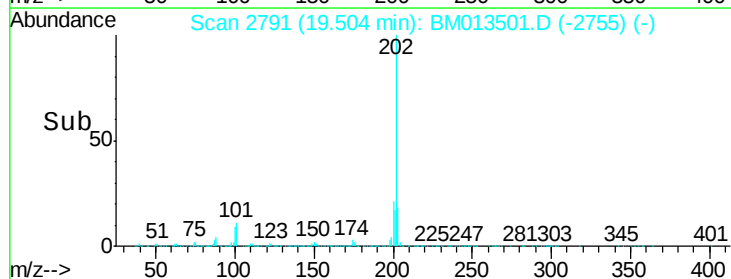
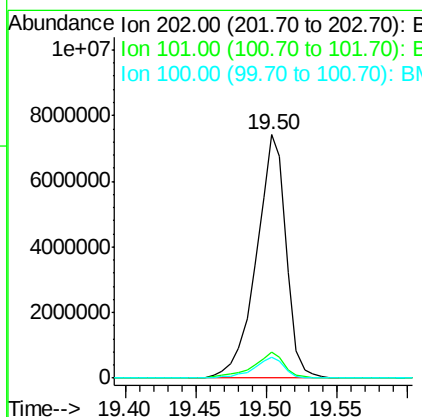
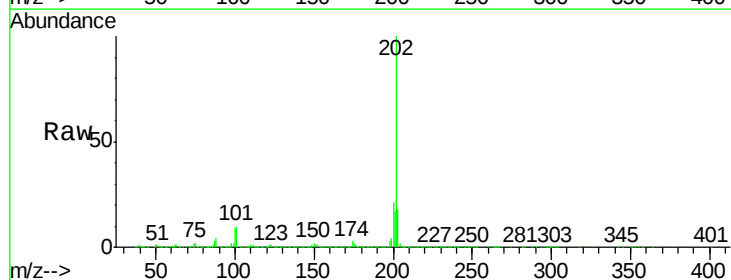
Instrument :
BNA_M
ClientSampleId :

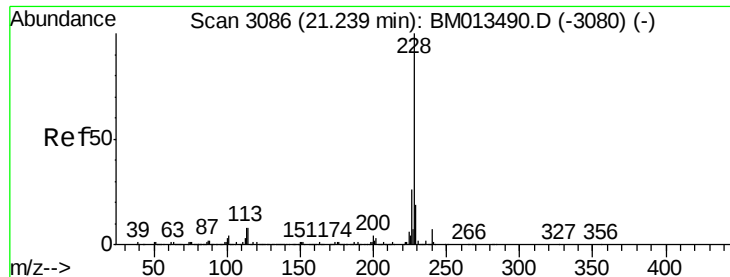
Tot Ion:202 Resp:14788585
Ion Ratio Lower Upper
202 100
101 11.2 4.6 7.0#
100 8.8 3.4 5.2#



#77
Pyrene
Concen: 206.286 ng/ul
RT: 19.50 min Scan# 2791
Delta R.T. 0.01 min
Lab File: BM013501.D
Acq: 18 Dec 2017 16:36

Tgt Ion:202 Resp:10972137
Ion Ratio Lower Upper
202 100
101 10.5 5.1 7.7#
100 8.6 4.9 7.3#





#80

Benzo(a)anthracene

Concen: 49.017 ng/ul

RT: 21.24 min Scan# 3087

Delta R.T. 0.01 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

Instrument :

BNA_M

ClientSampleId :

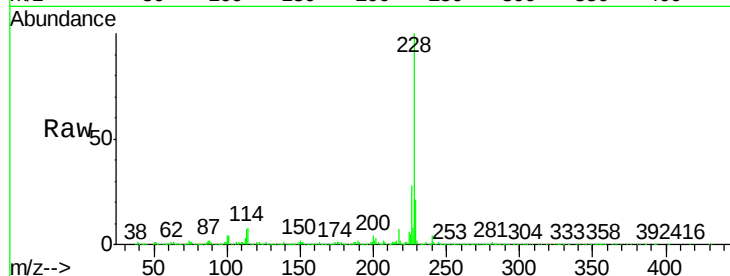
Tot Ion:228 Resp: 2722816

Ion Ratio Lower Upper

228 100

229 20.8 15.4 23.0

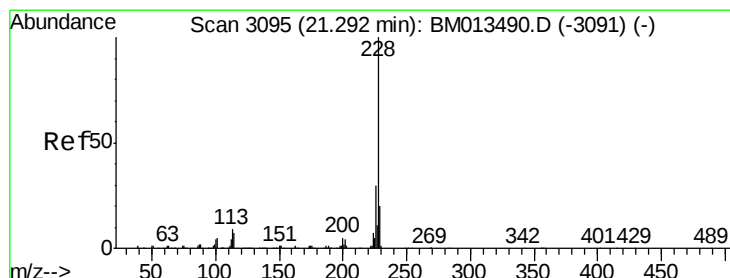
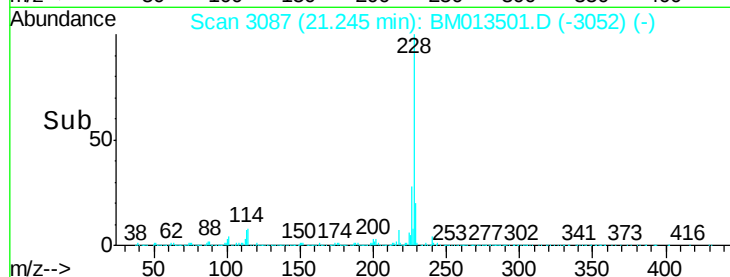
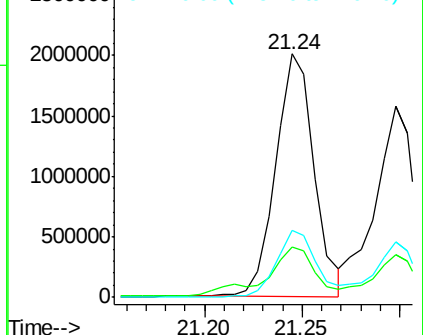
226 27.7 21.4 32.0



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: 42.225 ng/ul

RT: 21.30 min Scan# 3096

Delta R.T. 0.01 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

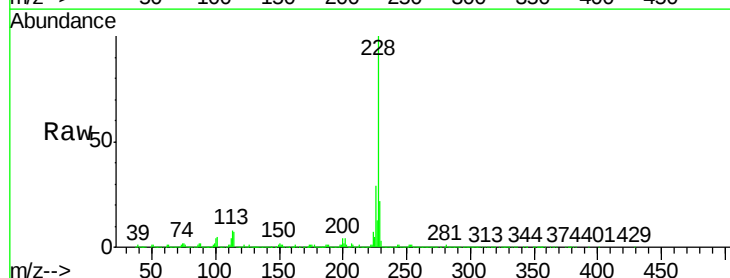
Tgt Ion:228 Resp: 2176036

Ion Ratio Lower Upper

228 100

226 29.1 23.4 35.2

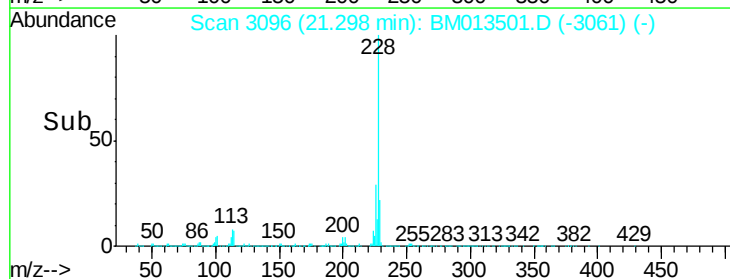
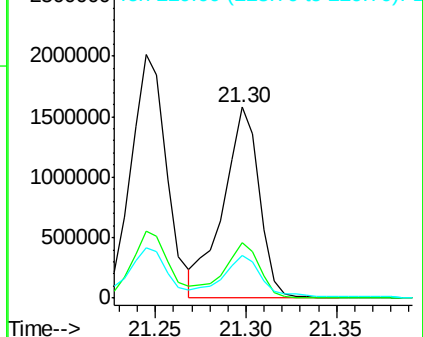
229 22.3 15.5 23.3

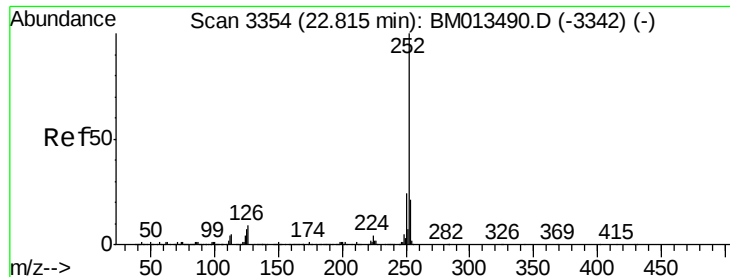


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 31.336 ng/ul

RT: 22.82 min Scan# 3355

Delta R.T. 0.01 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

Instrument :

BNA_M

ClientSampled :

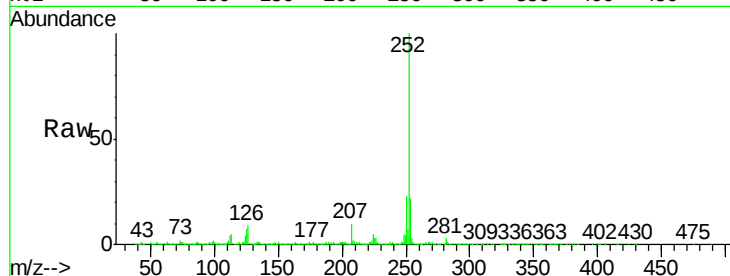
Tot Ion:252 Resp: 1568404

Ion Ratio Lower Upper

252 100

253 22.1 17.9 26.9

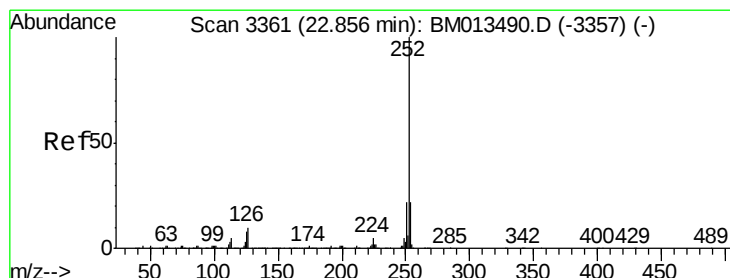
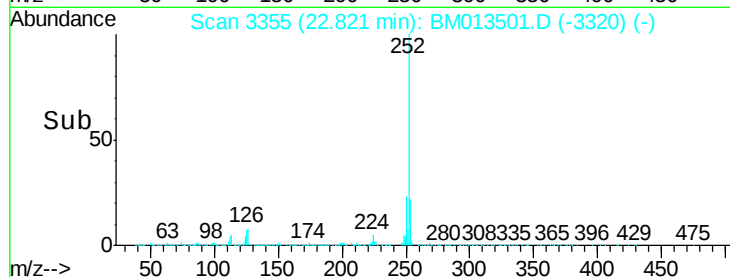
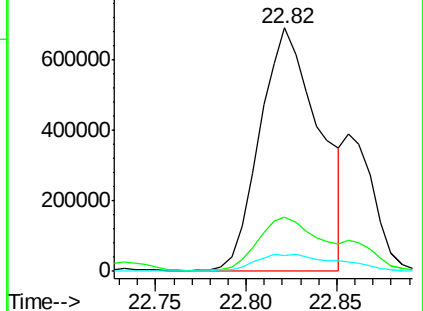
125 6.6 3.6 5.4#



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



#86

Benzo(k)fluoranthene

Concen: 33.298 ng/ul

RT: 22.82 min Scan# 3355

Delta R.T. -0.03 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

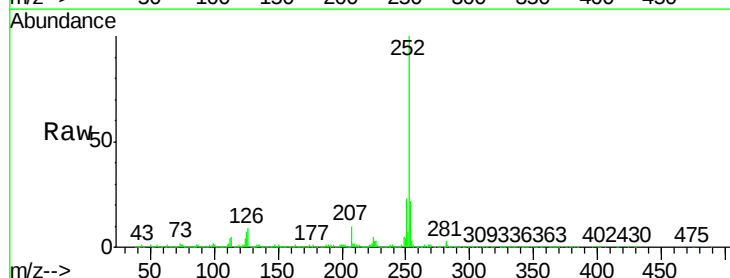
Tgt Ion:252 Resp: 1568404

Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

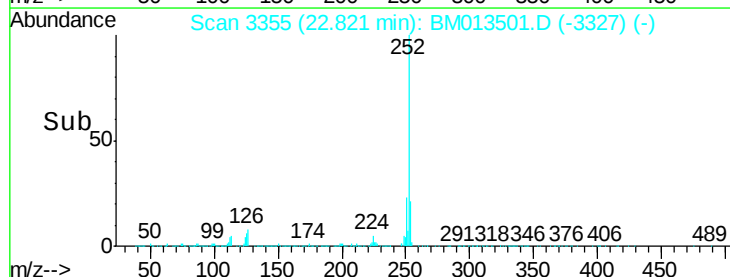
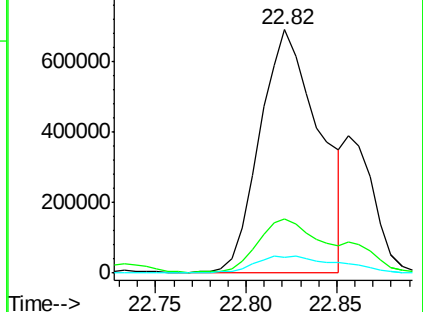
125 6.6 3.4 5.2#

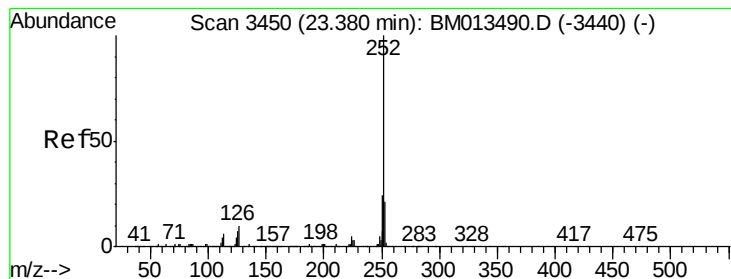


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 22.636 ng/ul

RT: 23.39 min Scan# 3451

Delta R.T. 0.01 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

Instrument :

BNA_M

ClientSampleId :

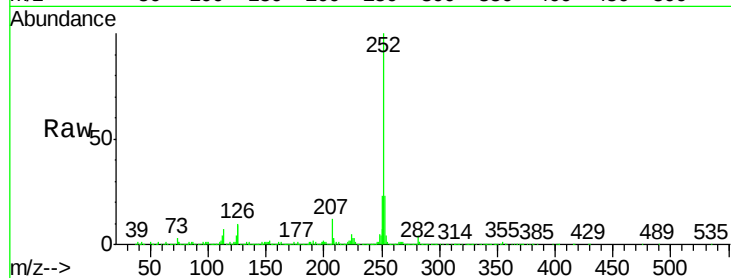
Tot Ion:252 Resp: 1017725

Ion Ratio Lower Upper

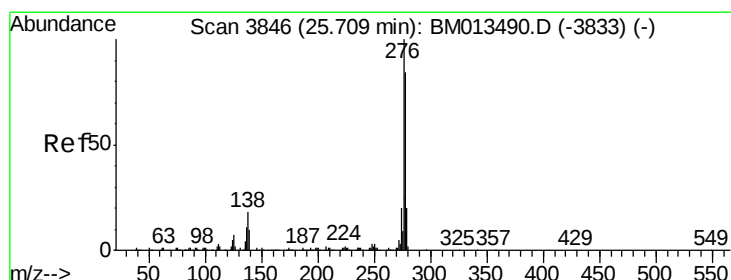
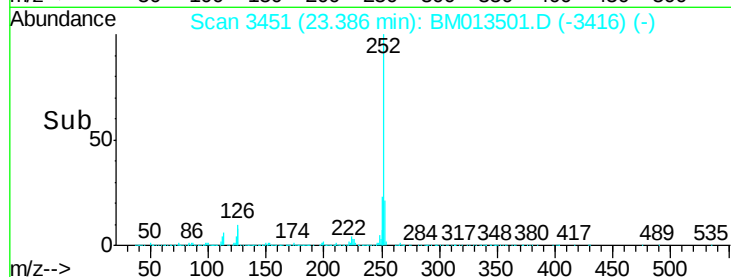
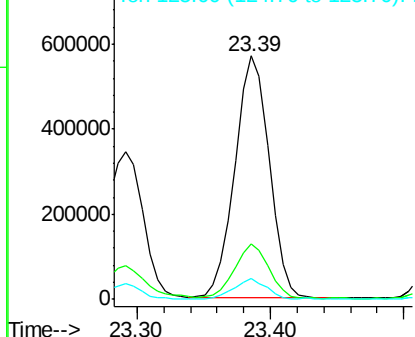
252 100

253 22.8 18.2 27.2

125 8.6 4.0 6.0#



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 9.640 ng/ul

RT: 25.71 min Scan# 3846

Delta R.T. 0.00 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

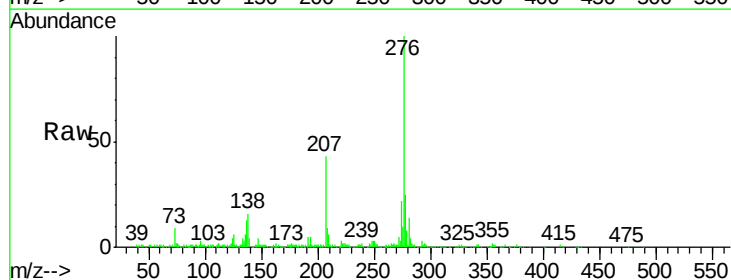
Tgt Ion:276 Resp: 430033

Ion Ratio Lower Upper

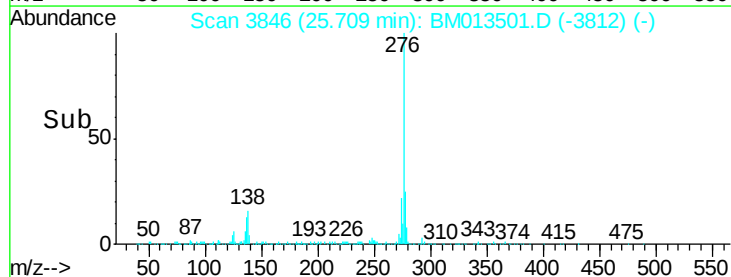
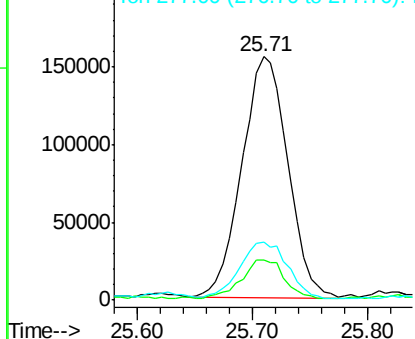
276 100

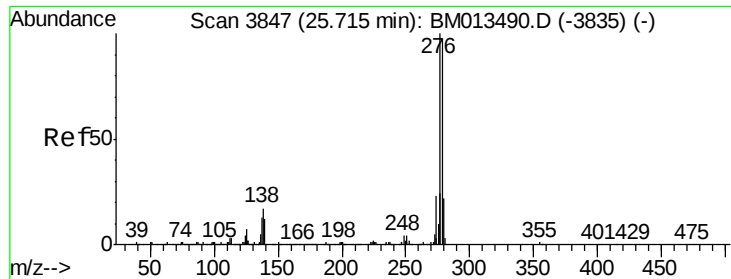
138 16.4 9.3 13.9#

277 23.8 19.9 29.9



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





#90

Dibenzo(a,h)anthracene

Concen: 3.276 ng/ul

RT: 25.71 min Scan# 3846

Delta R.T. -0.01 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

Instrument :

BNA_M

ClientSampleId :

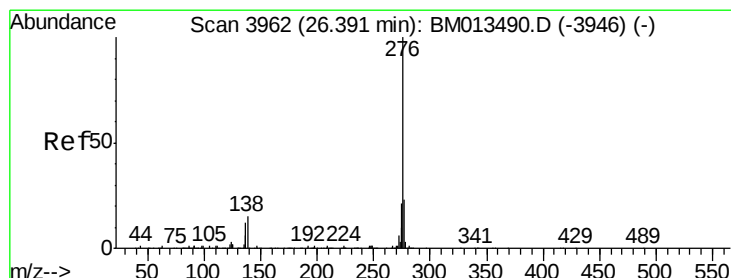
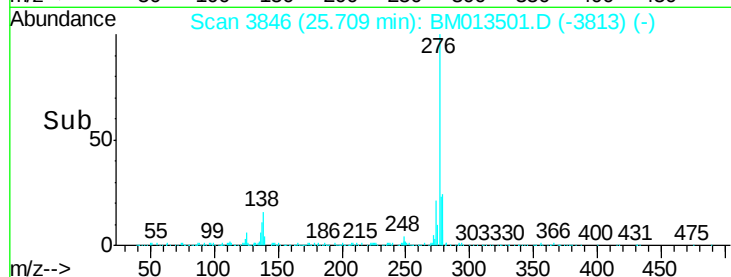
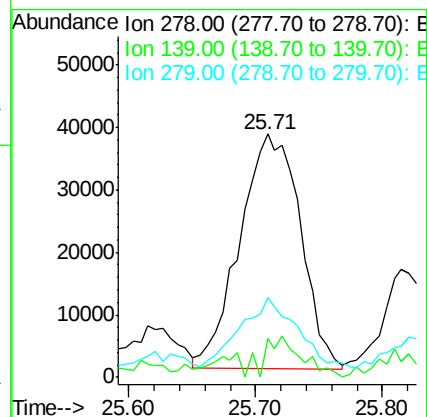
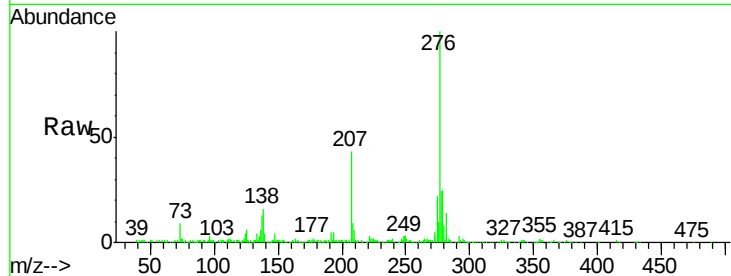
Tot Ion:278 Resp: 124447

Ion Ratio Lower Upper

278 100

139 16.0 5.8 8.8#

279 32.8 18.6 27.8#



#91

Benzo(g,h,i)perylene

Concen: 9.258 ng/ul

RT: 26.40 min Scan# 3963

Delta R.T. 0.01 min

Lab File: BM013501.D

Acq: 18 Dec 2017 16:36

Tgt Ion:276 Resp: 325762

Ion Ratio Lower Upper

276 100

138 16.2 8.5 12.7#

277 24.7 18.6 28.0

