

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
 Data File : BM010517.D
 Acq On : 11 Jun 2017 10:10
 Operator : SJ/MA
 Sample : I3558-09
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F5C63

Quant Time: Jun 12 09:08:39 2017
 Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jun 12 09:00:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.89	152	167510	20.00	ng/ul	0.00
18) Naphthalene-d8	10.70	136	616482	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.53	164	422151	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.29	188	1069977	20.00	ng/ul	0.01
75) Chrysene-d12	21.45	240	1755123	20.00	ng/ul	0.00
83) Perylene-d12	23.79	264	1481219	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.36	96	10876	2.66	ng/uL	0.00
5) Phenol-d5	7.07	99	215643	16.99	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.23	67	124201	17.41	ng/ul	0.00
9) 2-Chlorophenol-d4	7.43	132	191459	18.92	ng/ul	0.00
13) 4-Methylphenol-d8	8.62	113	177914	17.37	ng/ul	0.00
19) Nitrobenzene-d5	9.08	128	97823	21.66	ng/ul	0.00
22) 2-Nitrophenol-d4	9.79	143	115274	22.04	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.32	165	243606	22.67	ng/ul	0.00
29) 4-Chloroaniline-d4	10.92	131	6616	0.64	ng/ul	0.06
43) Dimethylphthalate-d6	13.95	166	841171	23.98	ng/ul	0.00
46) Acenaphthylene-d8	14.23	160	916506	22.40	ng/ul	0.00
51) 4-Nitrophenol-d4	14.77	143	94429	17.99	ng/ul	0.00
57) Fluorene-d10	15.53	176	712576	23.11	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.67	200	112116	14.79	ng/ul	0.02
70) Anthracene-d10	17.39	188	1283857	24.66	ng/ul	0.02
76) Pyrene-d10	19.67	212	1857710	25.60	ng/ul	0.01
87) Benzo(a)pyrene-d12	23.64	264	1518349	22.02	ng/ul	0.01

Target Compounds

					Qvalue
6) Phenol	7.10	94	17239	1.325 ng/ul#	56
17) Hexachloroethane	8.97	117	26388	5.723 ng/ul#	1
30) 4-Chloroaniline	10.77	127	10944579	1093.730 ng/ul#	21
34) 2-Methylnaphthalene	12.36	142	15110784	644.551 ng/ul	92
40) 1,1'-Biphenyl	13.36	154	3938753	115.013 ng/ul	99
42) 2-Nitroaniline	13.68	65	39191	5.719 ng/ul#	25
44) Dimethylphthalate	13.99	163	361096	10.468 ng/ul	98
47) Acenaphthylene	14.26	152	587596	14.695 ng/ul#	93
48) 3-Nitroaniline	14.50	138	8245	1.354 ng/ul#	65
49) Acenaphthene	14.60	153	15759051	561.964 ng/ul#	77
53) Dibenzofuran	14.83	168	305656	7.371 ng/ul#	56
54) 2,4-Dinitrotoluene	14.92	165	45593	4.911 ng/ul#	1
58) Fluorene	15.49	166	99389	2.922 ng/ul#	1
60) 4-Nitroaniline	15.67	138	6512	1.021 ng/ul#	1
64) N-Nitrosodiphenylamine	15.83	169	139424	4.470 ng/ul#	1
72) Carbazole	17.70	167	4190767	83.029 ng/ul	98
74) Fluoranthene	19.27	202	80863	1.151 ng/ul#	86
77) Pyrene	19.75	202	135030	1.493 ng/ul#	87
80) Benzo(a)anthracene	21.43	228	14163360	143.102 ng/ul#	75
82) Chrysene	21.49	228	12750852	142.516 ng/ul#	82
85) Benzo(b)fluoranthene	23.08	252	11309164	131.213 ng/ul	99
86) Benzo(k)fluoranthene	23.08	252	11309164	137.351 ng/ul	99
88) Benzo(a)pyrene	23.69	252	7201643	84.296 ng/ul	99

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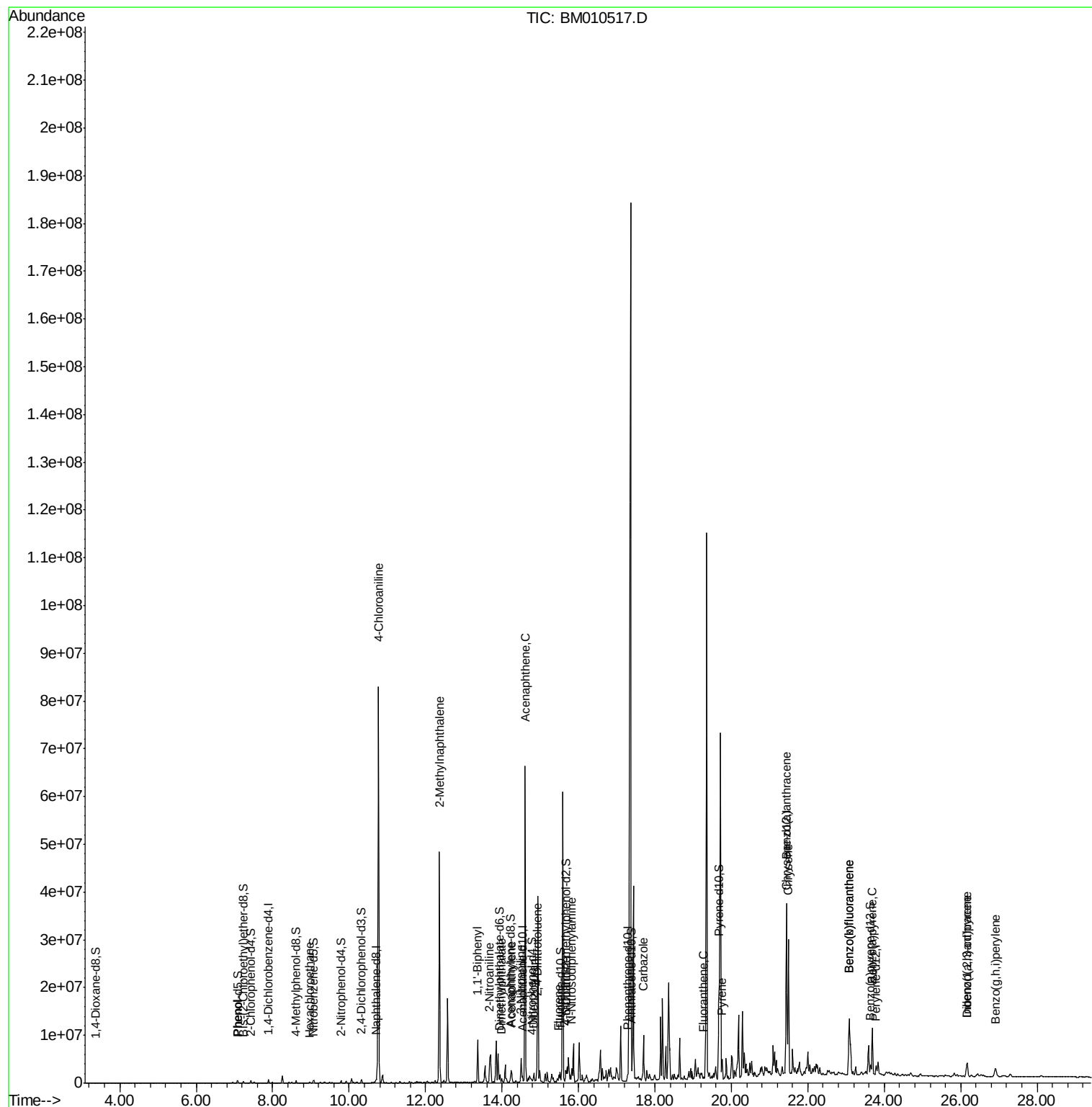
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Indeno(1,2,3-cd)pyrene	26.17	276	2903503	26.900	ng/ul#	97
90) Dibenzo(a,h)anthracene	26.17	278	866387	9.320	ng/ul#	93
91) Benzo(g,h,i)perylene	26.91	276	2227200	25.047	ng/ul	96

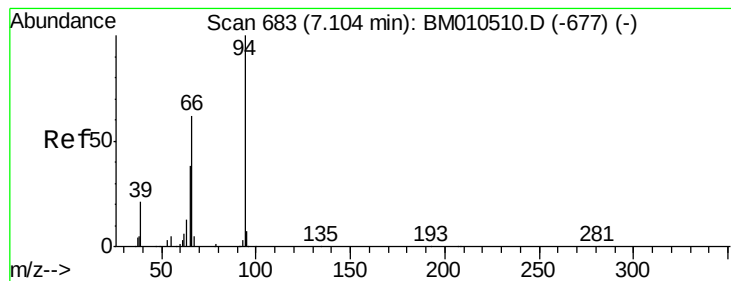
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 1.325 ng/ul

RT: 7.10 min Scan# 682

Delta R.T. -0.01 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

Instrument :

BNA_M

ClientSampleId :

F5C63

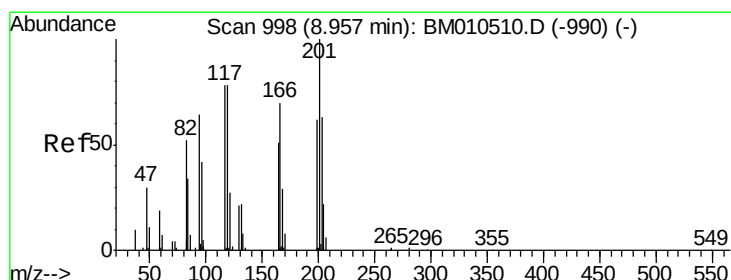
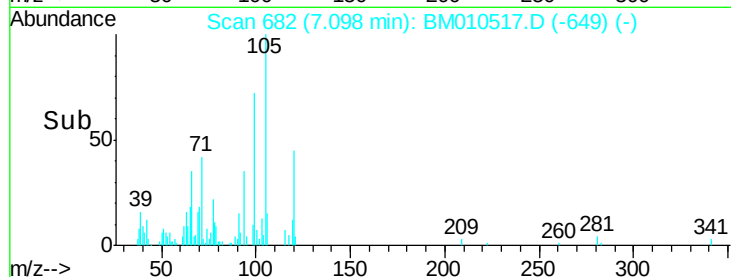
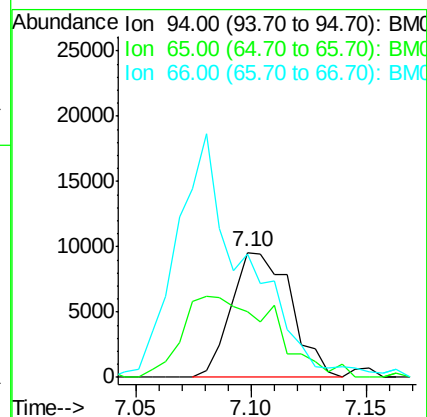
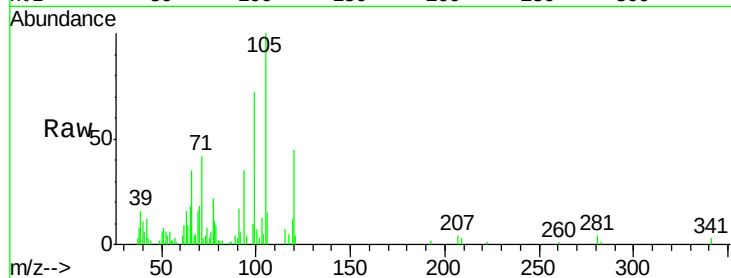
Tgt Ion: 94 Resp: 17239

Ion Ratio Lower Upper

94 100

65 52.4 28.2 42.4#

66 98.4 47.2 70.8#



#17

Hexachloroethane

Concen: 5.723 ng/ul

RT: 8.97 min Scan# 1001

Delta R.T. 0.02 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

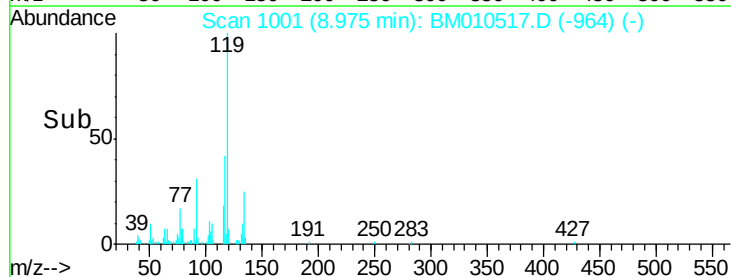
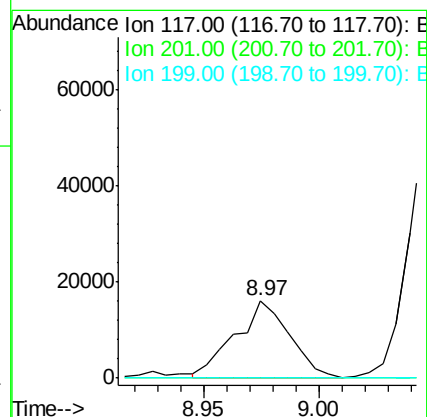
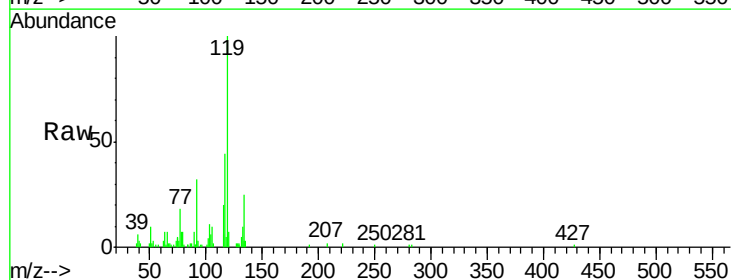
Tgt Ion: 117 Resp: 26388

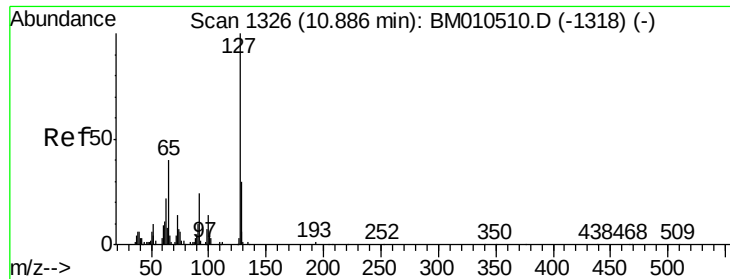
Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

199 0.0 67.8 101.6#





#30

4-Chloroaniline

Concen: 1093.730 ng/ul

RT: 10.77 min Scan# 1307

Delta R.T. -0.11 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

Instrument :

BNA_M

ClientSampleId :

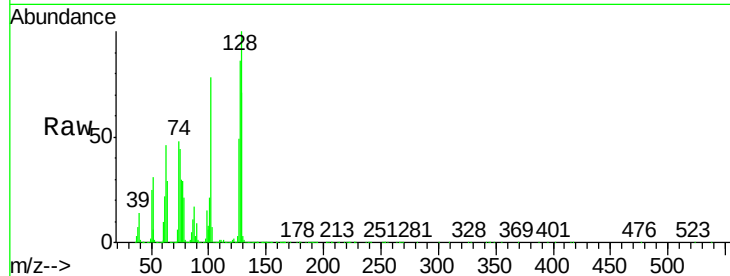
F5C63

Tgt Ion:127 Resp:10944579

Ion Ratio Lower Upper

127 100

129 81.8 28.4 42.6#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

8000000

6000000

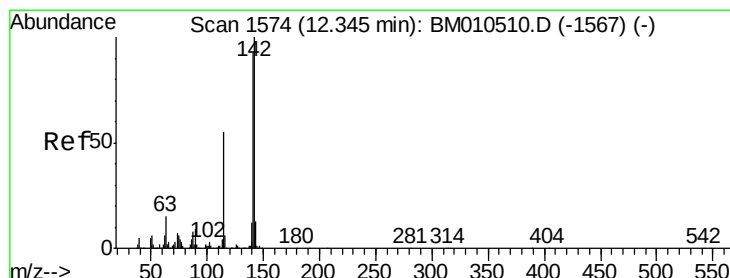
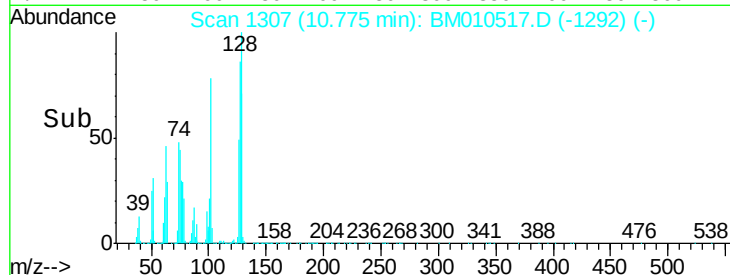
4000000

2000000

0

10.70 10.75 10.80

Time-->



#34

2-Methylnaphthalene

Concen: 644.551 ng/ul

RT: 12.36 min Scan# 1576

Delta R.T. 0.01 min

Lab File: BM010517.D

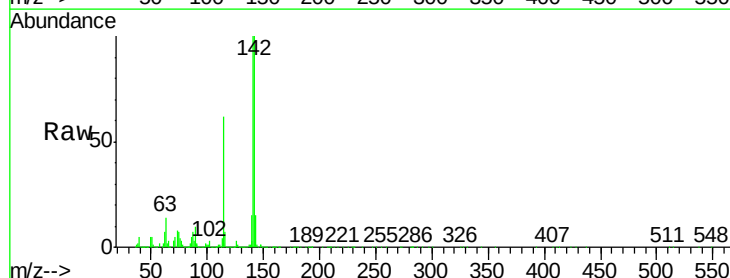
Acq: 11 Jun 2017 10:10

Tgt Ion:142 Resp:15110784

Ion Ratio Lower Upper

142 100

141 100.0 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

1e+07

8000000

6000000

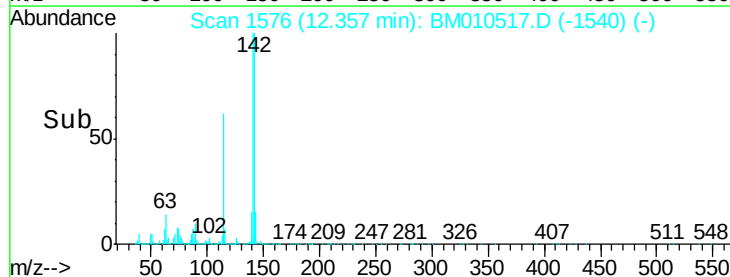
4000000

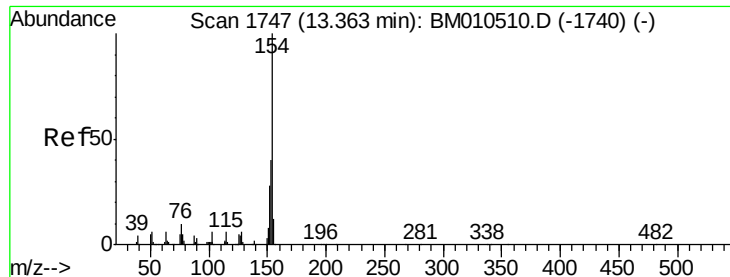
2000000

0

12.30 12.35 12.40

Time-->

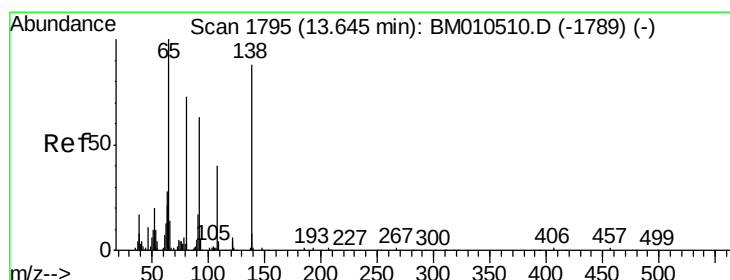
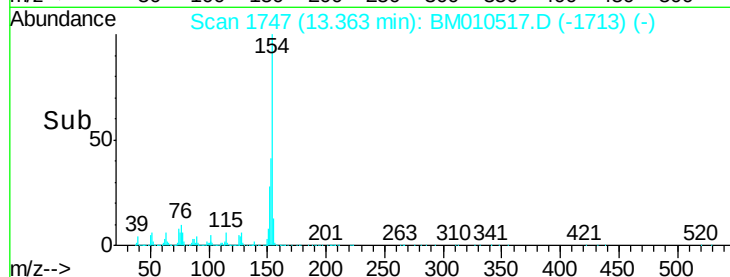
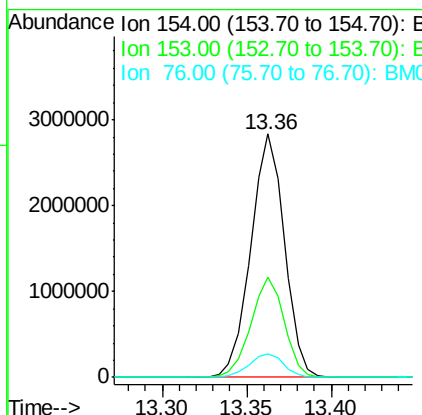
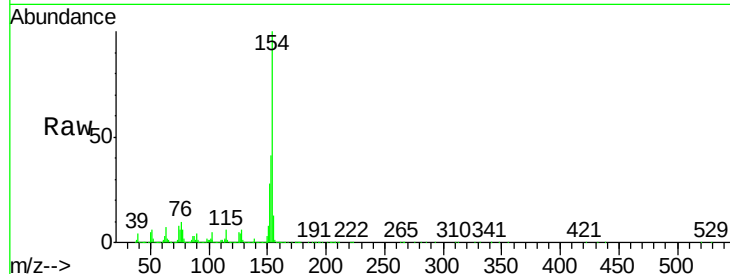




#40
 1,1'-Biphenyl
 Concen: 115.013 ng/ul
 RT: 13.36 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: BM010517.D
 Acq: 11 Jun 2017 10:10

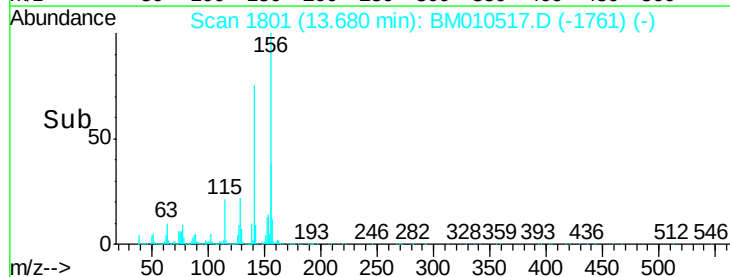
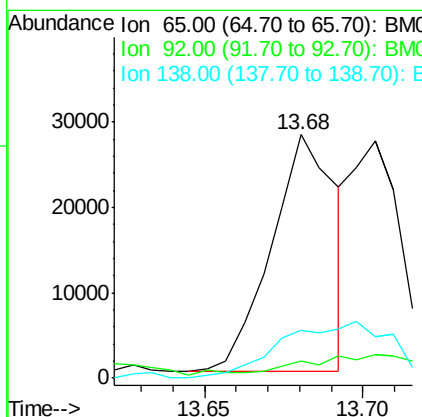
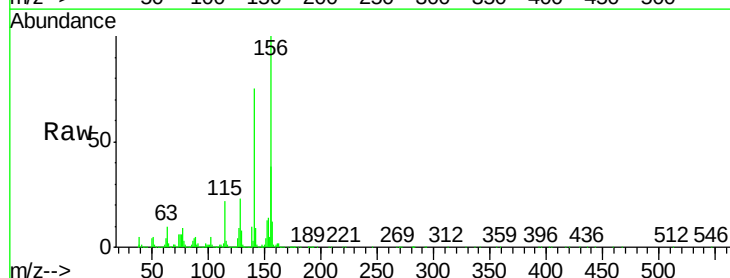
Instrument :
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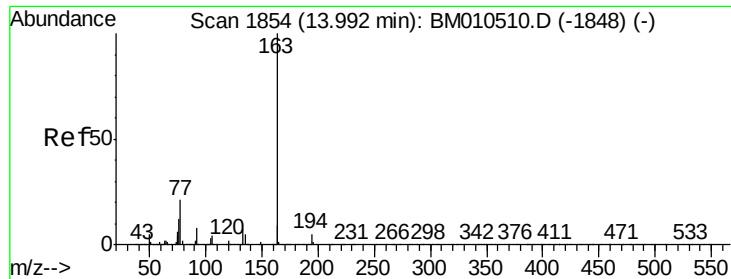
Tgt Ion:154 Resp: 3938753
 Ion Ratio Lower Upper
 154 100
 153 41.0 32.6 48.8
 76 9.8 8.5 12.7



#42
 2-Nitroaniline
 Concen: 5.719 ng/ul
 RT: 13.68 min Scan# 1801
 Delta R.T. 0.04 min
 Lab File: BM010517.D
 Acq: 11 Jun 2017 10:10

Tgt Ion: 65 Resp: 39191
 Ion Ratio Lower Upper
 65 100
 92 6.9 51.8 77.6#
 138 19.5 74.2 111.4#

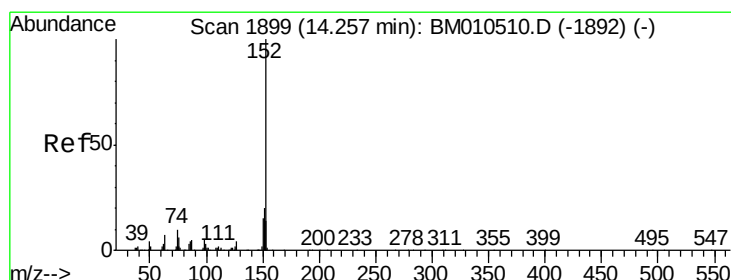
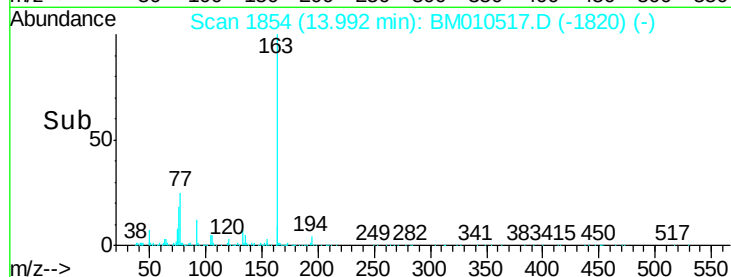
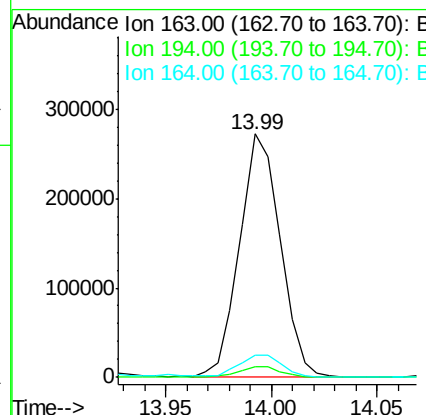
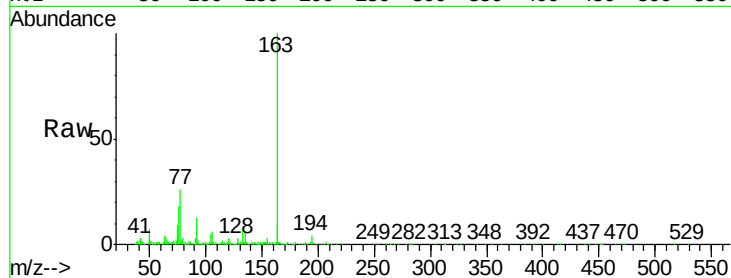




#44
Dimethylphthalate
Concen: 10.468 ng/ul
RT: 13.99 min Scan# 1854
Delta R.T. 0.00 min
Lab File: BM010517.D
Acq: 11 Jun 2017 10:10

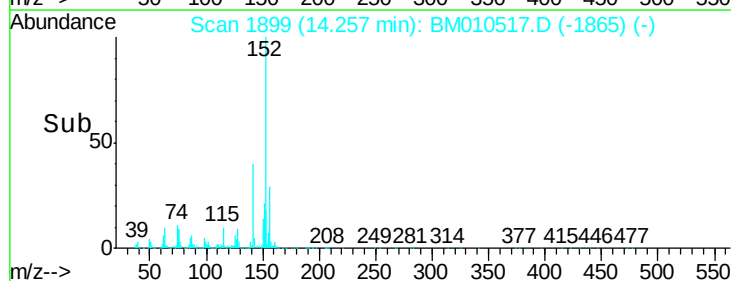
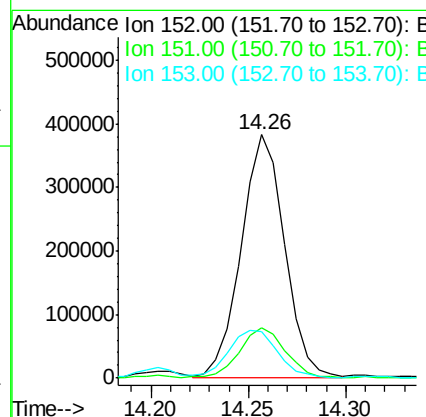
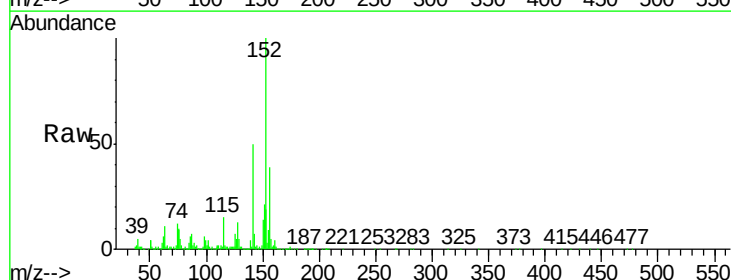
Instrument :
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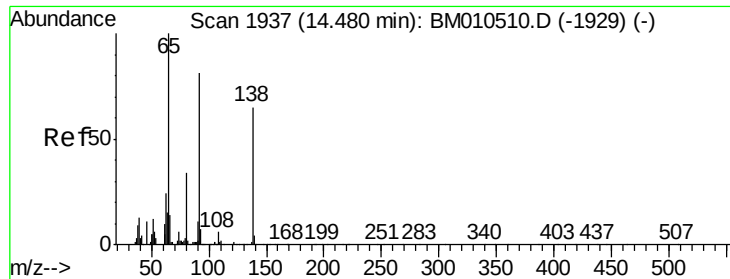
Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.5	5.3
164	9.3	8.2	12.4



#47
Acenaphthylene
Concen: 14.695 ng/ul
RT: 14.26 min Scan# 1899
Delta R.T. 0.00 min
Lab File: BM010517.D
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Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.3	24.5
153	18.9	10.2	15.4

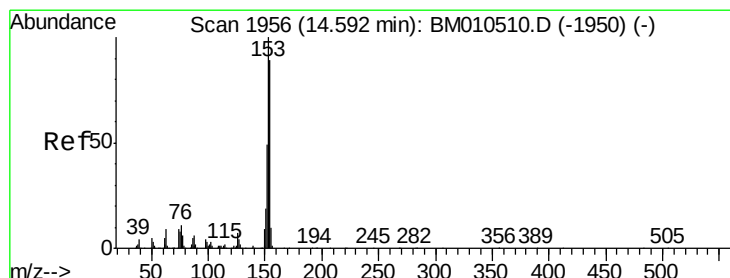
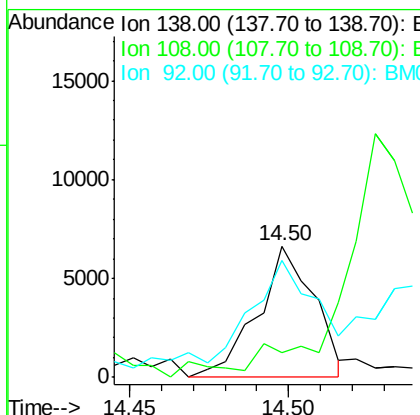
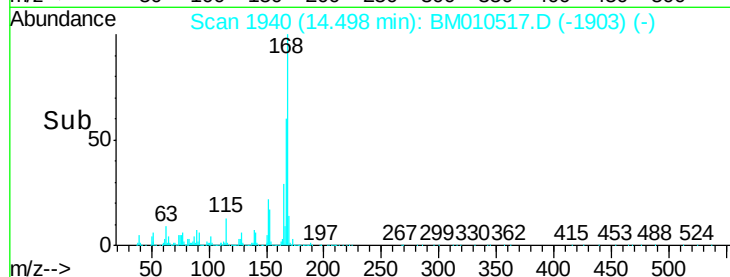
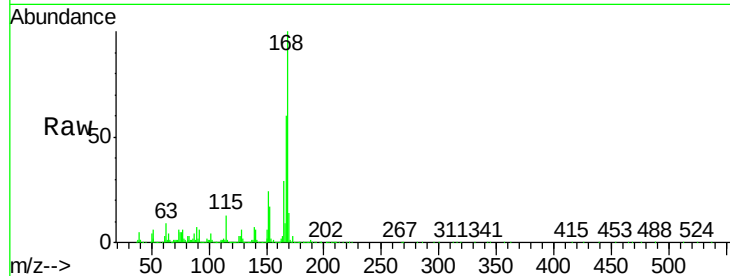




#48
3-Nitroaniline
Concen: 1.354 ng/ul
RT: 14.50 min Scan# 1940
Delta R.T. 0.02 min
Lab File: BM010517.D
Acq: 11 Jun 2017 10:10

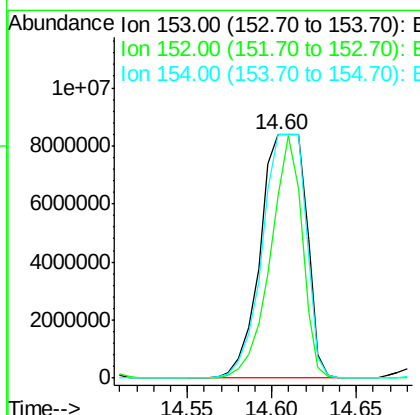
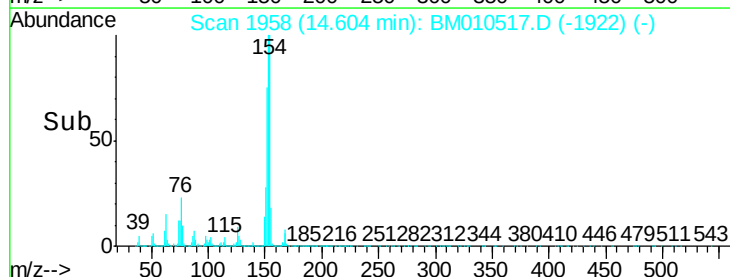
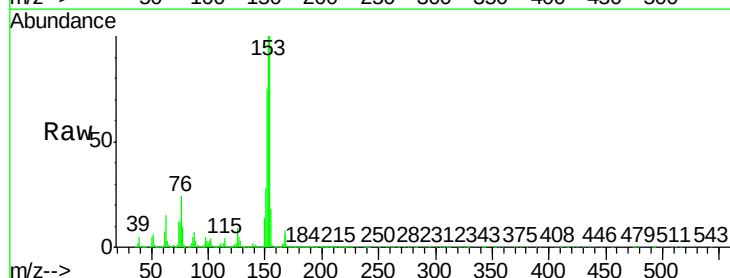
Instrument :
BNA_M
ClientSampleId :
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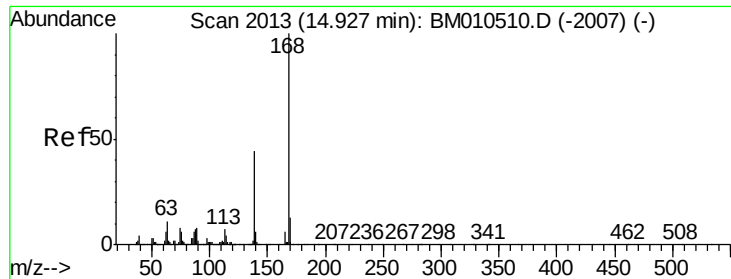
Tgt Ion:138 Resp: 8245
Ion Ratio Lower Upper
138 100
108 18.6 9.9 14.9#
92 88.7 105.0 157.4#



#49
Acenaphthene
Concen: 561.964 ng/ul
RT: 14.60 min Scan# 1958
Delta R.T. 0.01 min
Lab File: BM010517.D
Acq: 11 Jun 2017 10:10

Tgt Ion:153 Resp:15759051
Ion Ratio Lower Upper
153 100
152 74.6 37.6 56.4#
154 100.0 70.4 105.6





#53

Dibenzofuran

Concen: 7.371 ng/ul

RT: 14.83 min Scan# 1997

Delta R.T. -0.09 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

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ClientSampleId :

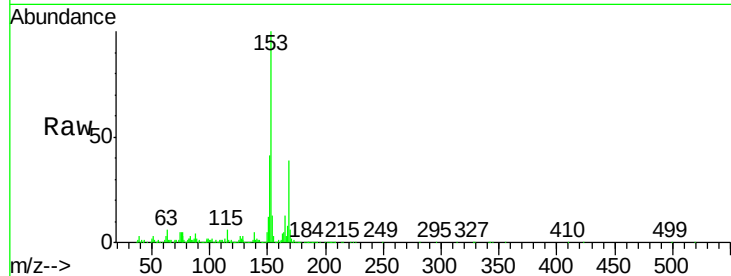
F5C63

Tgt Ion:168 Resp: 305656

Ion Ratio Lower Upper

168 100

139 12.0 30.8 46.2#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

250000

200000

150000

100000

50000

0

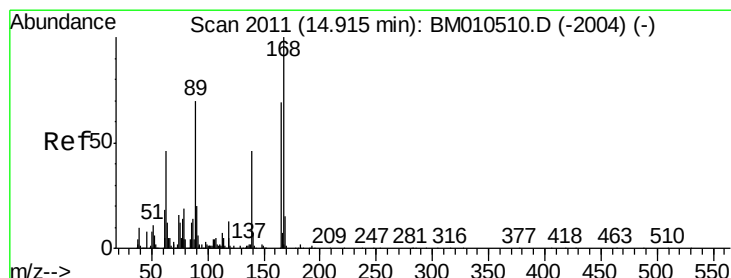
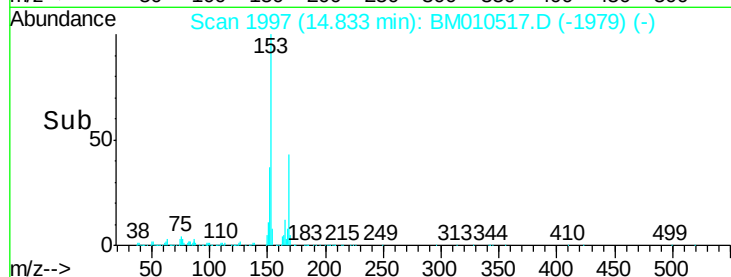
14.75

14.80

14.83

14.85

Time-->



#54

2,4-Dinitrotoluene

Concen: 4.911 ng/ul

RT: 14.92 min Scan# 2011

Delta R.T. 0.00 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

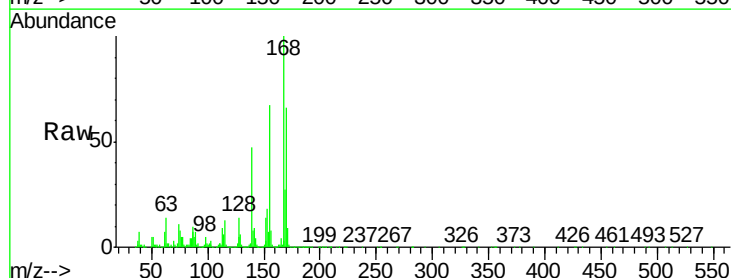
Tgt Ion:165 Resp: 45593

Ion Ratio Lower Upper

165 100

63 382.7 45.8 68.8#

182 5.6 2.6 4.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 182.00 (181.70 to 182.70): E

1500000

1000000

500000

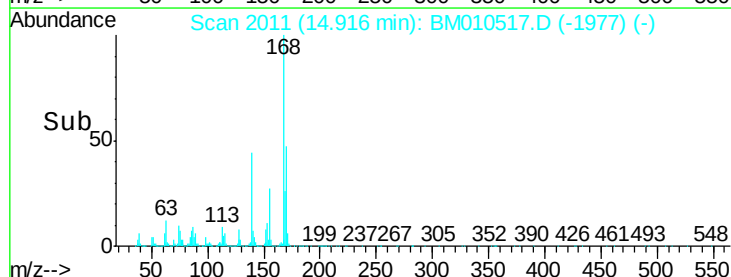
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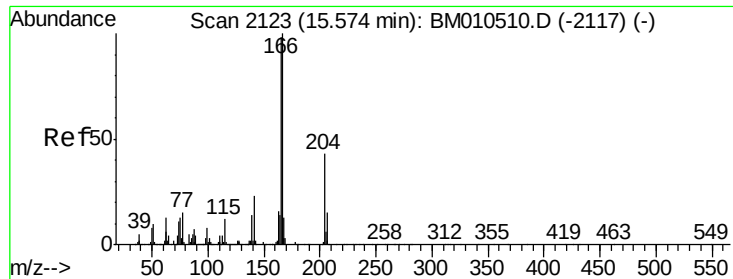
14.90

14.92

14.95

Time-->





#58

Fluorene

Concen: 2.922 ng/ul

RT: 15.49 min Scan# 2109

Delta R.T. -0.08 min

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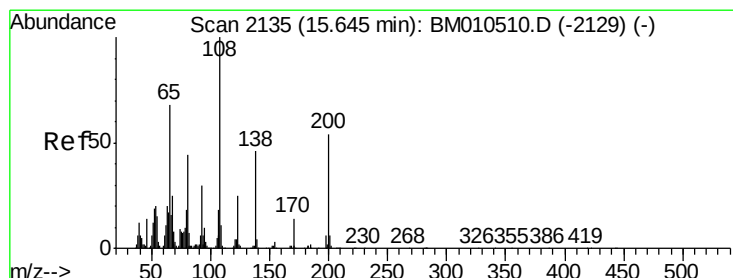
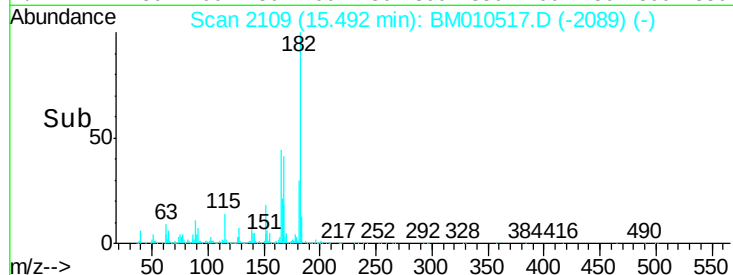
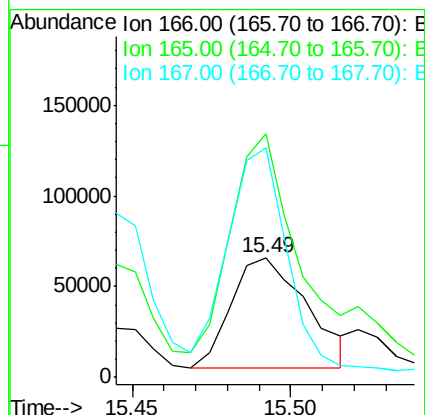
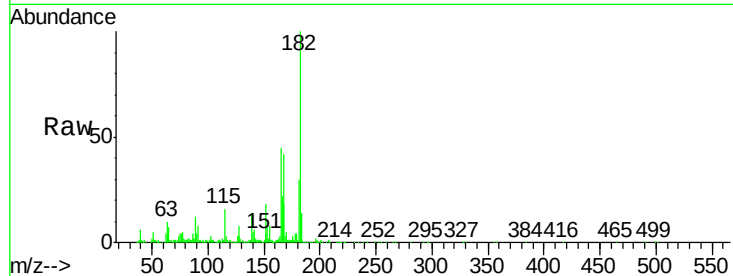
Tgt Ion:166 Resp: 99389

Ion Ratio Lower Upper

166 100

165 203.5 77.9 116.9#

167 191.9 10.6 16.0#



#60

4-Nitroaniline

Concen: 1.021 ng/ul

RT: 15.67 min Scan# 2140

Delta R.T. 0.03 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

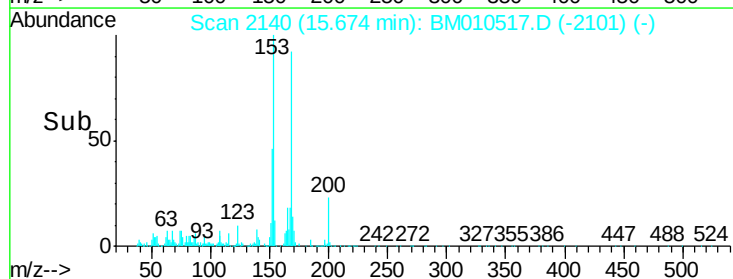
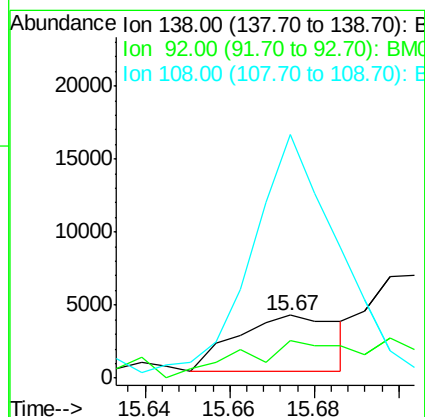
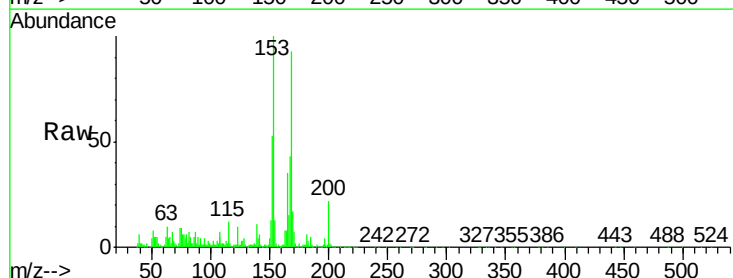
Tgt Ion:138 Resp: 6512

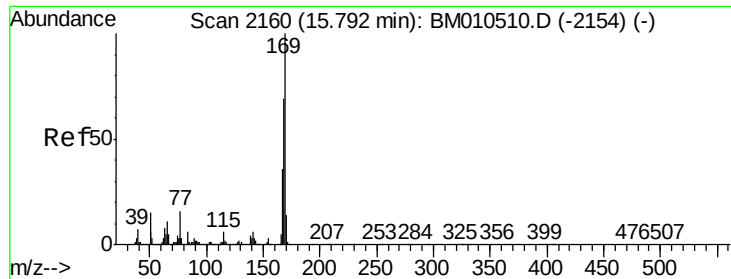
Ion Ratio Lower Upper

138 100

92 60.6 52.7 79.1

108 388.1 140.4 210.6#





#64

N-Nitrosodiphenylamine

Concen: 4.470 ng/ul

RT: 15.83 min Scan# 2160

Delta R.T. 0.04 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

Instrument :

BNA_M

ClientSampleId :

F5C63

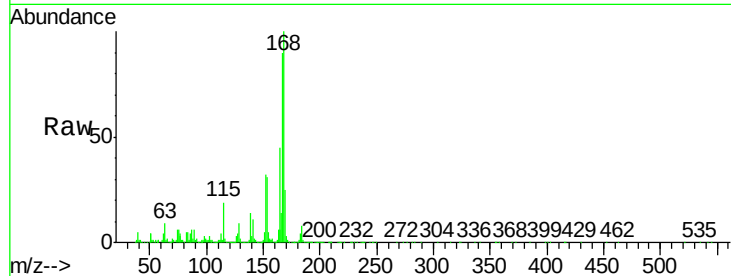
Tgt Ion:169 Resp: 139424

Ion Ratio Lower Upper

169 100

168 392.2 54.0 81.0#

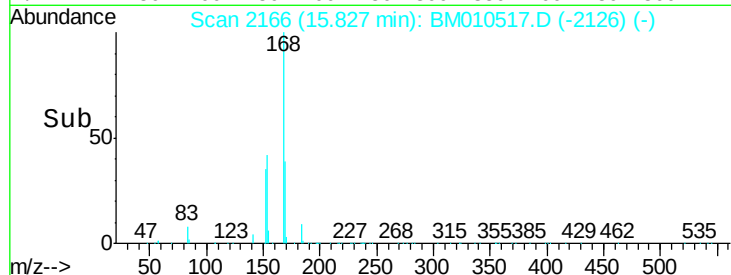
167 354.1 29.1 43.7#



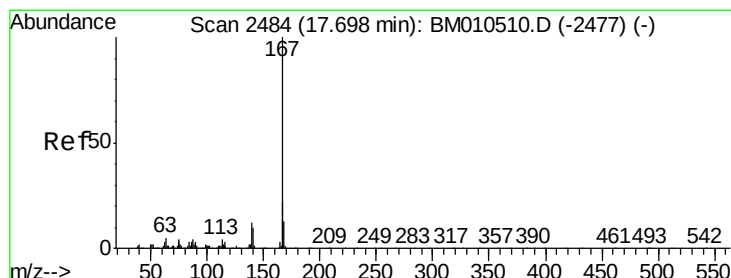
Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#72

Carbazole

Concen: 83.029 ng/ul

RT: 17.70 min Scan# 2485

Delta R.T. 0.01 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

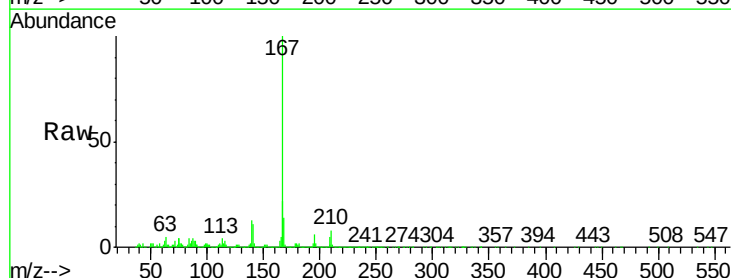
Tgt Ion:167 Resp: 4190767

Ion Ratio Lower Upper

167 100

166 22.1 17.1 25.7

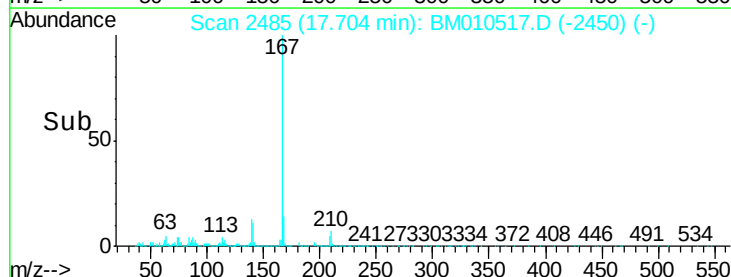
139 13.4 10.0 15.0



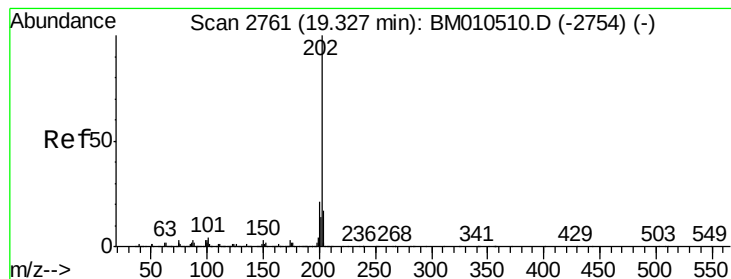
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time-->



#74

Fluoranthene

Concen: 1.151 ng/ul

RT: 19.27 min Scan# 2752

Delta R.T. -0.05 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

Instrument :

BNA_M

ClientSampleId :

F5C63

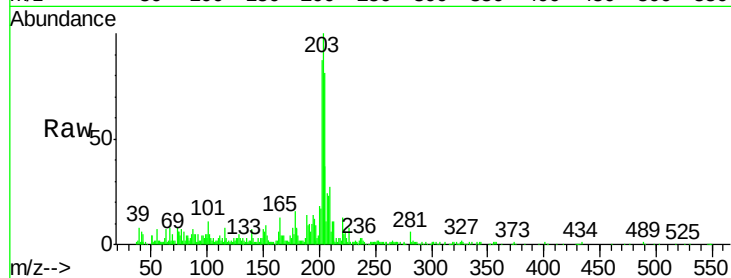
Tgt Ion:202 Resp: 80863

Ion Ratio Lower Upper

202 100

101 13.0 4.6 7.0#

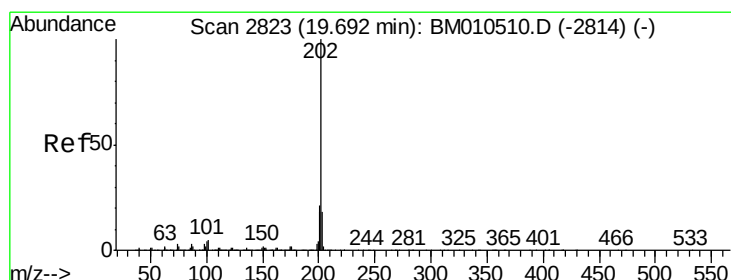
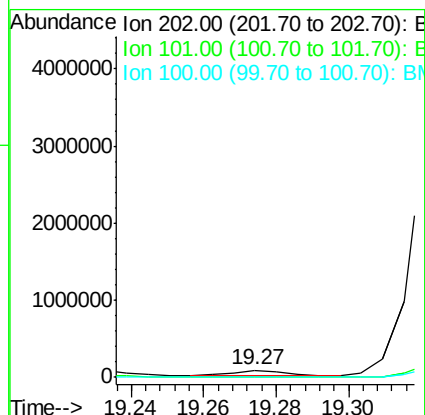
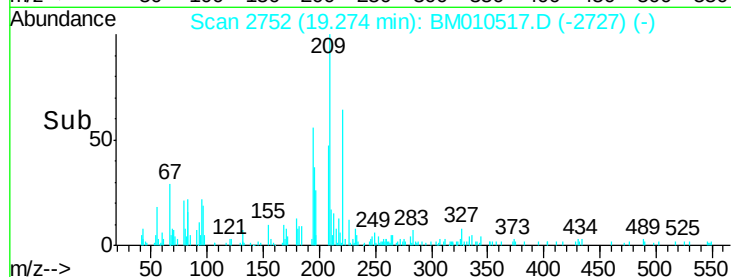
100 5.7 3.4 5.2#



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: 1.493 ng/ul

RT: 19.75 min Scan# 2833

Delta R.T. 0.06 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

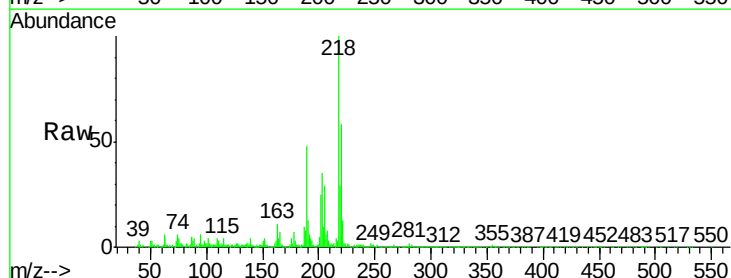
Tgt Ion:202 Resp: 135030

Ion Ratio Lower Upper

202 100

101 14.6 5.1 7.7#

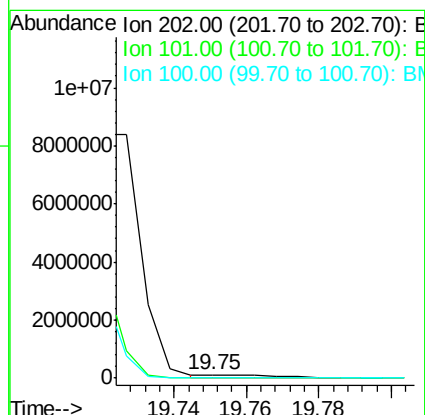
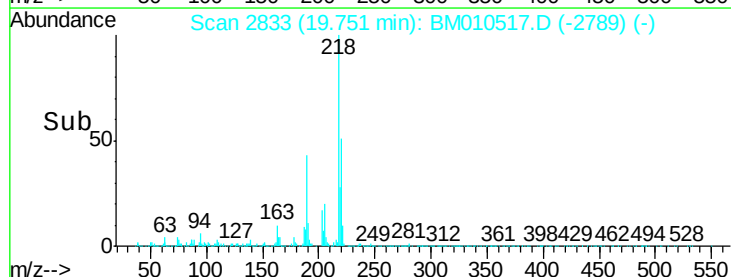
100 6.7 4.9 7.3

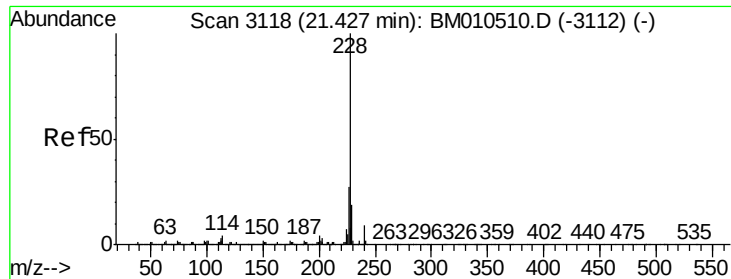


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 143.102 ng/ul

RT: 21.43 min Scan# 3119

Delta R.T. 0.01 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

Instrument :

BNA_M

ClientSampled :

F5C63

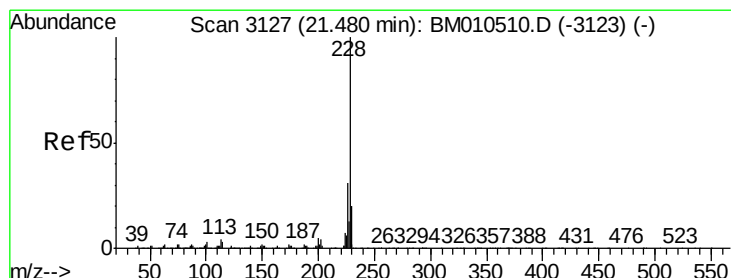
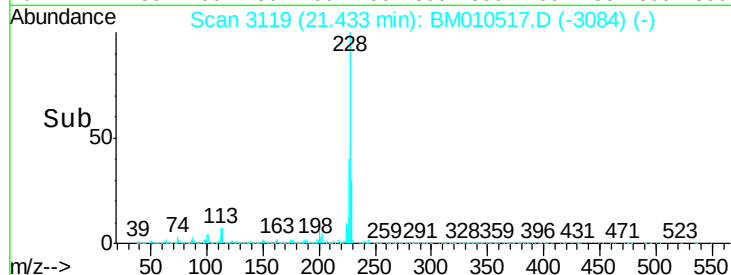
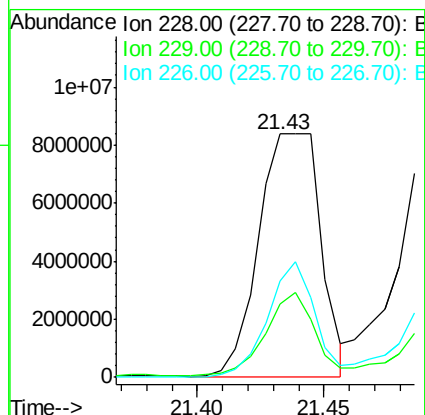
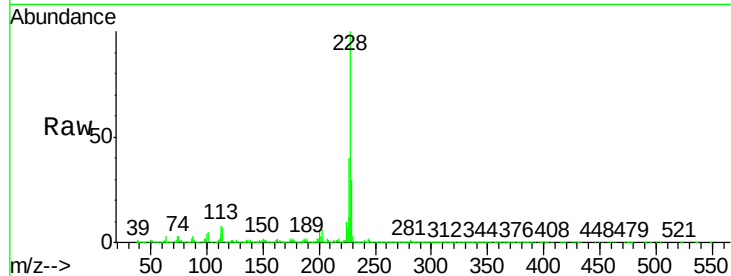
Tgt Ion:228 Resp:14163360

Ion Ratio Lower Upper

228 100

229 30.0 15.4 23.0#

226 39.7 21.4 32.0#



#82

Chrysene

Concen: 142.516 ng/ul

RT: 21.49 min Scan# 3129

Delta R.T. 0.01 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

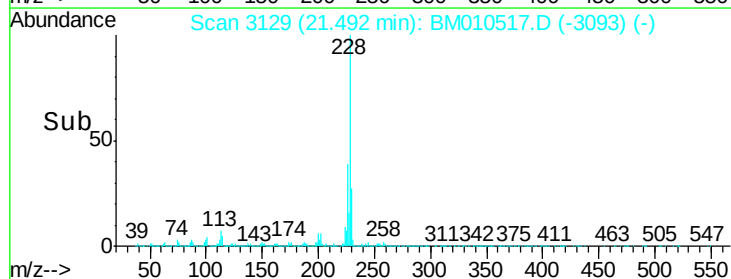
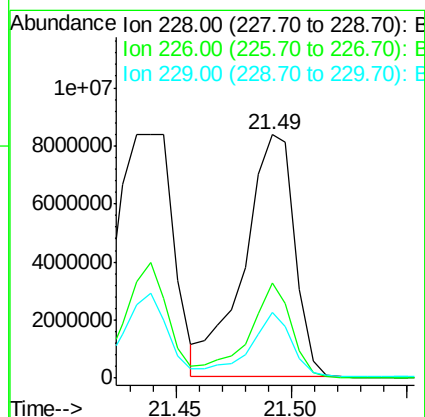
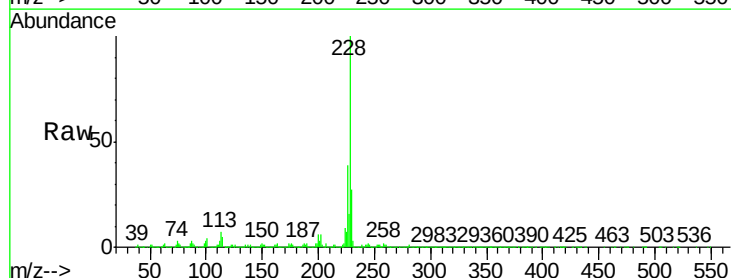
Tgt Ion:228 Resp:12750852

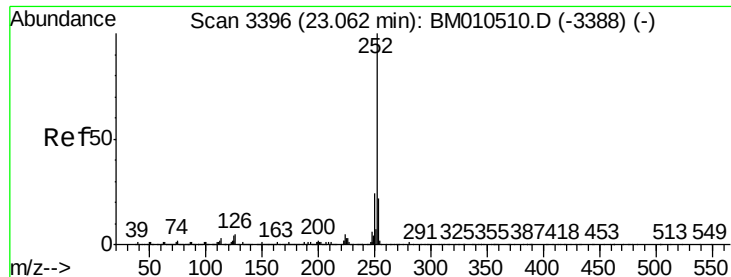
Ion Ratio Lower Upper

228 100

226 39.2 23.4 35.2#

229 26.9 15.5 23.3#





#85

Benzo(b)fluoranthene

Concen: 131.213 ng/ul

RT: 23.08 min Scan# 3399

Delta R.T. 0.02 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

Instrument :

BNA_M

ClientSampleId :

F5C63

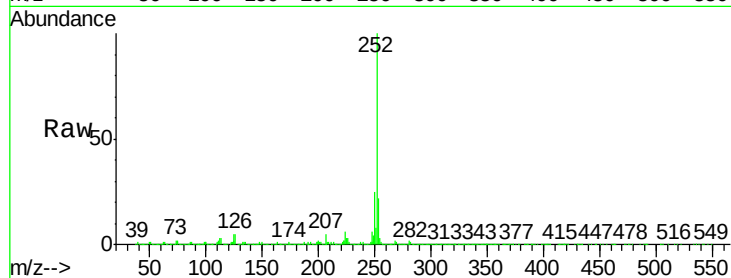
Tgt Ion:252 Resp:11309164

Ion Ratio Lower Upper

252 100

253 21.9 17.9 26.9

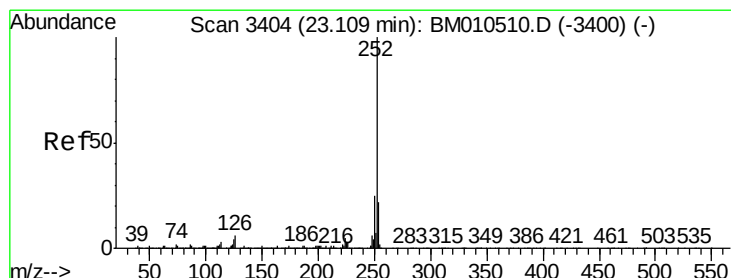
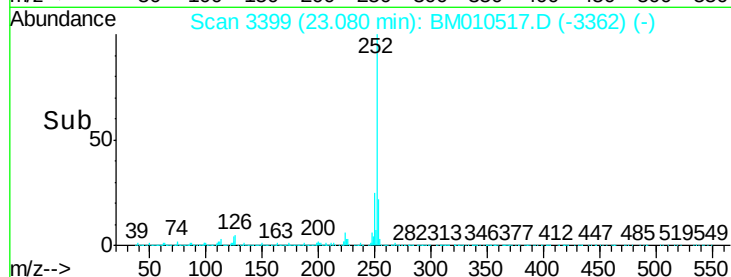
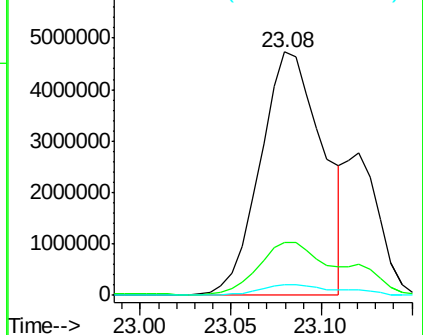
125 4.5 3.6 5.4



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: 137.351 ng/ul

RT: 23.08 min Scan# 3399

Delta R.T. -0.03 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

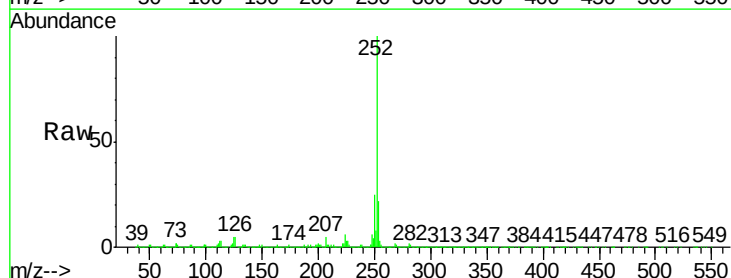
Tgt Ion:252 Resp:11309164

Ion Ratio Lower Upper

252 100

253 21.9 17.1 25.7

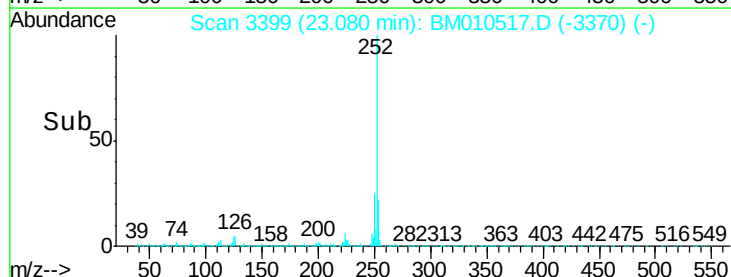
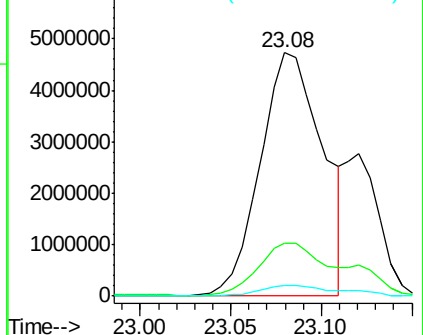
125 4.5 3.4 5.2

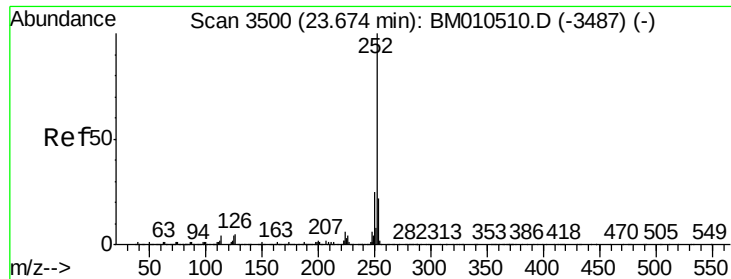


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 84.296 ng/ul

RT: 23.69 min Scan# 3503

Delta R.T. 0.02 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

Instrument :

BNA_M

ClientSampleId :

F5C63

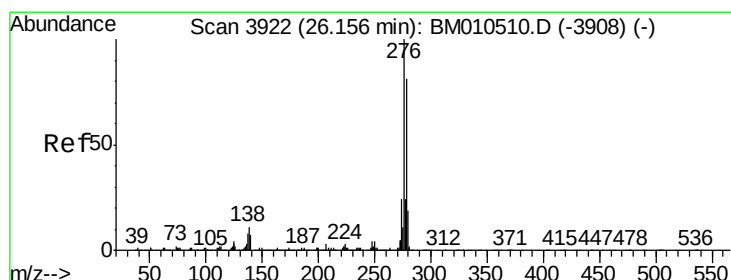
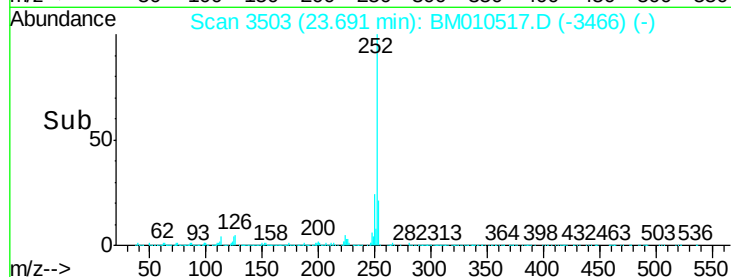
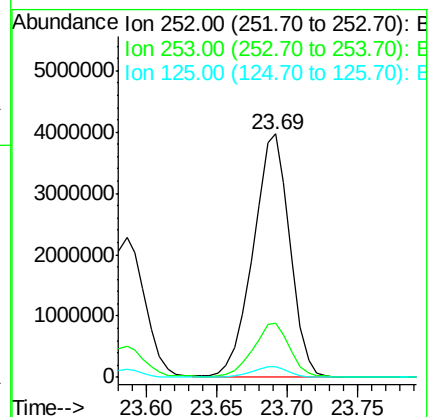
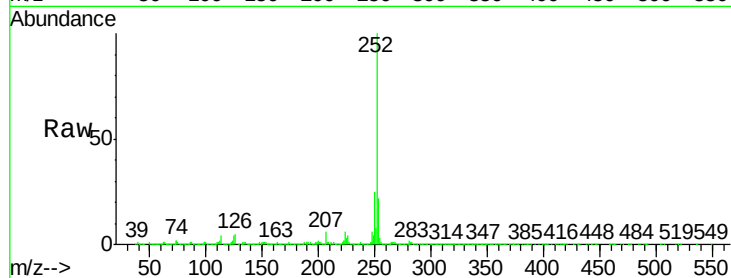
Tgt Ion:252 Resp: 7201643

Ion Ratio Lower Upper

252 100

253 22.3 18.2 27.2

125 4.3 4.0 6.0



#89

Indeno(1,2,3-cd)pyrene

Concen: 26.900 ng/ul

RT: 26.17 min Scan# 3924

Delta R.T. 0.01 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

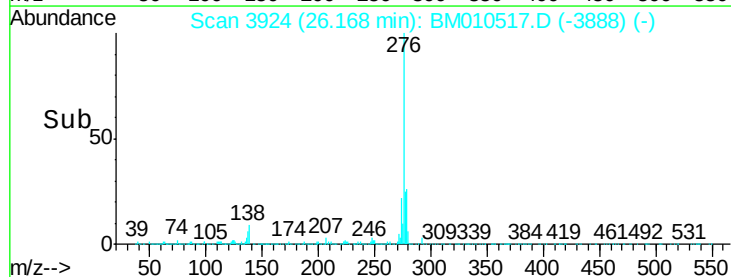
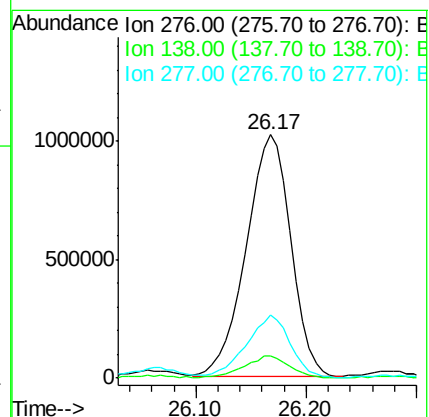
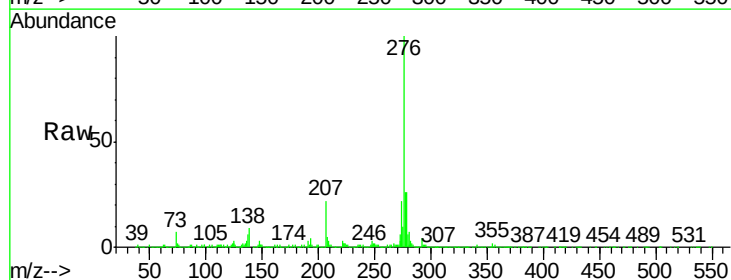
Tgt Ion:276 Resp: 2903503

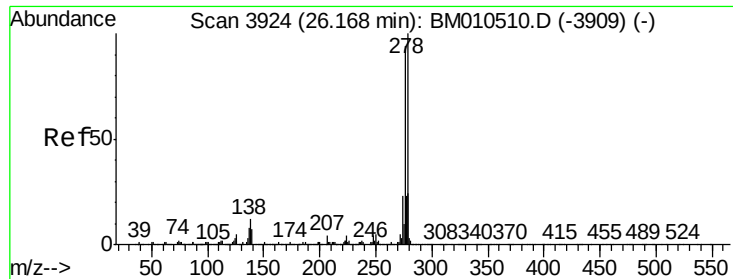
Ion Ratio Lower Upper

276 100

138 9.0 9.3 13.9#

277 25.8 19.9 29.9





#90

Dibenzo(a,h)anthracene

Concen: 9.320 ng/ul

RT: 26.17 min Scan# 3924

Delta R.T. 0.00 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

Instrument :

BNA_M

ClientSampleId :

F5C63

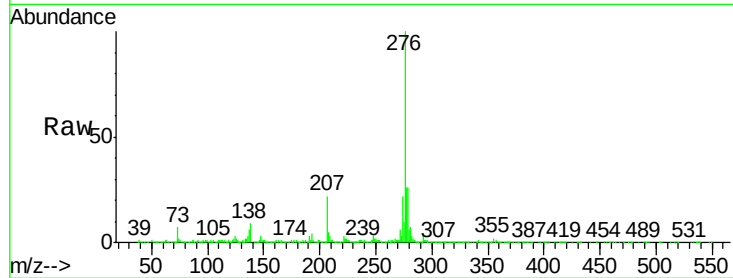
Tgt Ion:278 Resp: 866387

Ion Ratio Lower Upper

278 100

139 0.0 5.8 8.8#

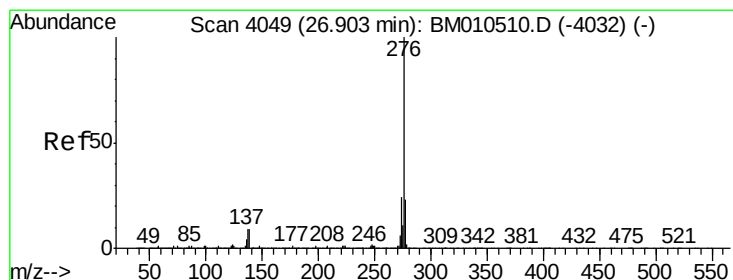
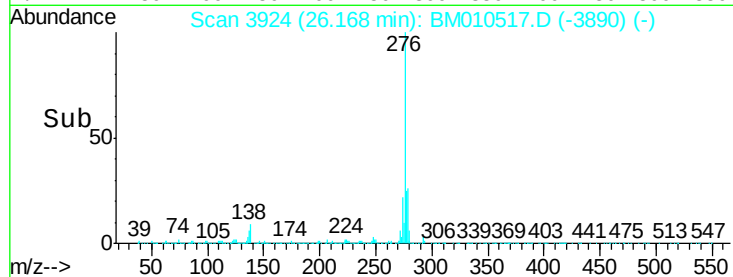
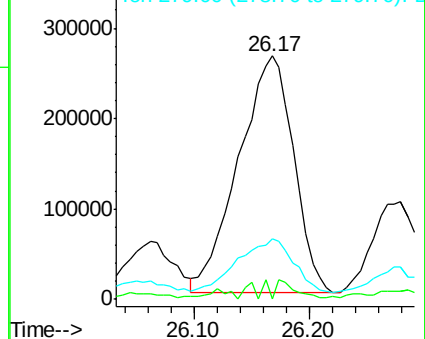
279 24.7 18.6 27.8



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



#91

Benzo(g,h,i)perylene

Concen: 25.047 ng/ul

RT: 26.91 min Scan# 4051

Delta R.T. 0.01 min

Lab File: BM010517.D

Acq: 11 Jun 2017 10:10

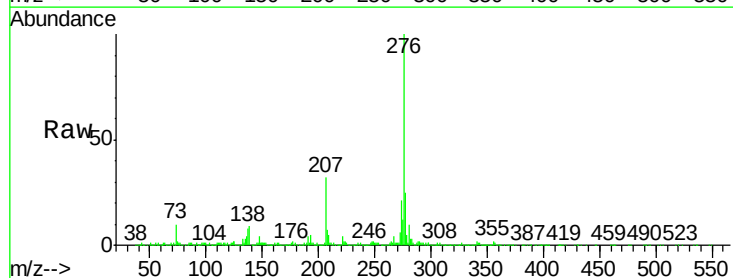
Tgt Ion:276 Resp: 2227200

Ion Ratio Lower Upper

276 100

138 8.6 8.5 12.7

277 24.8 18.6 28.0



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

