

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080415\
 Data File : BM002228.D
 Acq On : 05 Aug 2015 02:20
 Operator : TP/UM
 Sample : G3095-11
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C01S2RE

Quant Time: Aug 05 05:33:18 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Aug 05 02:56:04 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	142456	20.00	ng/ul	0.00
18) Naphthalene-d8	10.32	136	533369	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.20	164	287451	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.96	188	598864	20.00	ng/ul	0.01
78) Chrysene-d12	21.18	240	771217	20.00	ng/ul	0.02
86) Perylene-d12	23.37	264	795704	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.97	96	3085	1.23	ng/uL	0.00
5) Phenol-d5	6.72	99	67798	6.41	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	6.86	67	37710	6.82	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	60322	6.67	ng/ul	0.00
13) 4-Methylphenol-d8	8.26	113	52640	5.99	ng/ul	0.00
19) Nitrobenzene-d5	8.69	128	28082	7.26	ng/ul	0.00
22) 2-Nitrophenol-d4	9.41	143	29992	6.58	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.95	165	55810	6.39	ng/ul	0.00
29) 4-Chloroaniline-d4	10.47	131	42538	4.40	ng/ul	0.01
44) Dimethylphthalate-d6	13.62	166	147187	7.04	ng/ul	0.00
47) Acenaphthylene-d8	13.89	160	185418	7.02	ng/ul	0.00
52) 4-Nitrophenol-d4	14.46	143	12547	4.63	ng/ul	0.02
58) Fluorene-d10	15.20	176	127271	6.89	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.37	200	1106	0.32	ng/ul	0.02
71) Anthracene-d10	17.06	188	186934	7.01	ng/ul	0.01
79) Pyrene-d10	19.37	212	210693	5.71	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.23	264	256768	6.64	ng/ul	0.03

Target Compounds

						Qvalue
28) Naphthalene	10.36	128	155416	6.16	ng/ul	98
34) 2-Methylnaphthalene	11.99	142	34022	1.75	ng/ul	100
35) 1-Methylnaphthalene	12.22	142	26755	1.44	ng/ul	93
45) Dimethylphthalate	13.66	163	48692	2.34	ng/ul	98
48) Acenaphthylene	13.92	152	186498	6.92	ng/ul	100
50) Acenaphthene	14.27	153	230099	13.07	ng/ul	99
54) Dibenzofuran	14.60	168	135625	5.32	ng/ul	97
59) Fluorene	15.26	166	216462	10.32	ng/ul	99
70) Phenanthrene	17.02	178	3181303	103.46	ng/ul	99
72) Anthracene	17.10	178	746634	23.76	ng/ul	99
75) Carbazole	17.37	167	301230	11.50	ng/ul	99
77) Fluoranthene	19.19	202	77579	2.31	ng/ul	99
80) Pyrene	19.42	202	5704995	120.35	ng/ul#	94
83) Benzo(a)anthracene	21.17	228	3558632	82.37	ng/ul	97
85) Chrysene	21.22	228	3235746	81.34	ng/ul	96
88) Benzo(b)fluoranthene	22.73	252	4866217	108.54	ng/ul#	97
89) Benzo(k)fluoranthene	22.73	252	2567021	59.12	ng/ul#	98
91) Benzo(a)pyrene	23.30	252	3428829	80.08	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	25.61	276	2294067	47.55	ng/ul	96
93) Dibenzo(a,h)anthracene	25.60	278	595514	14.48	ng/ul#	84
94) Benzo(g,h,i)perylene	26.29	276	2134840	53.13	ng/ul	98

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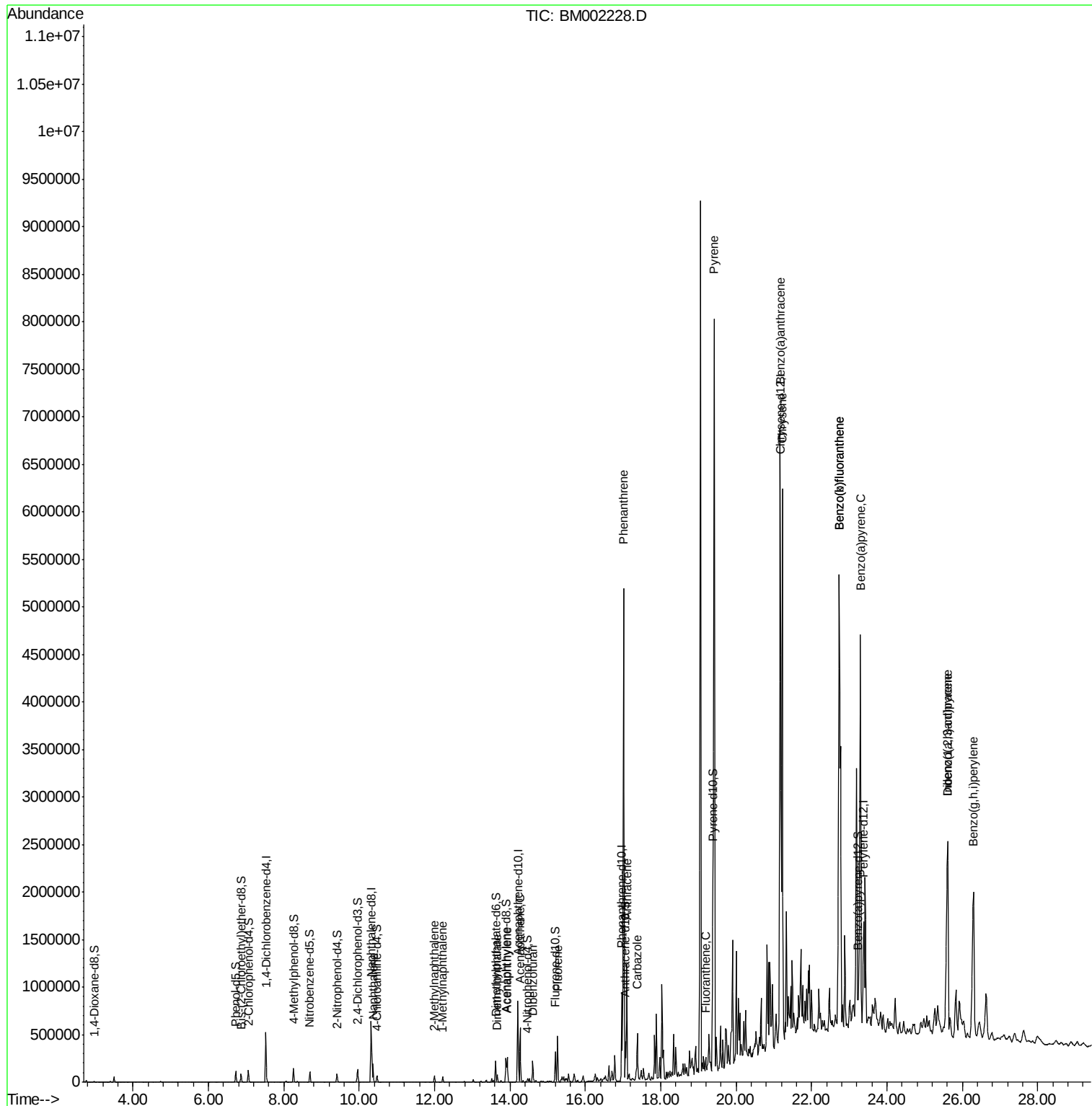
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

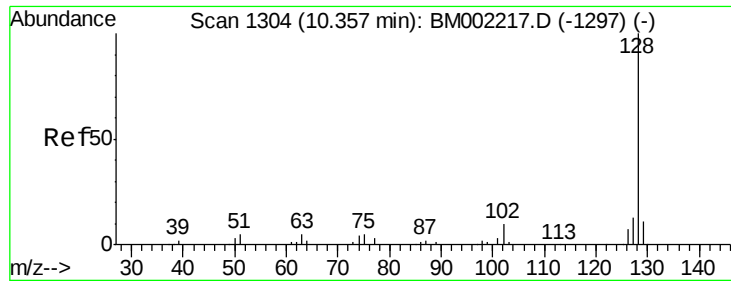
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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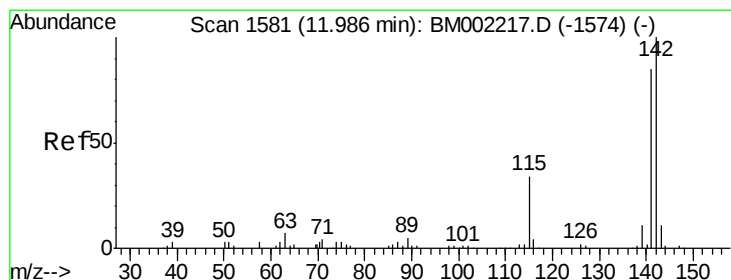
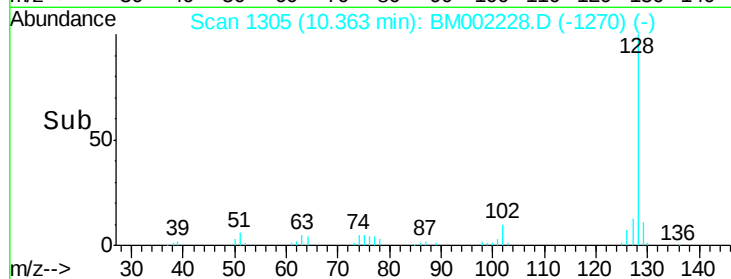
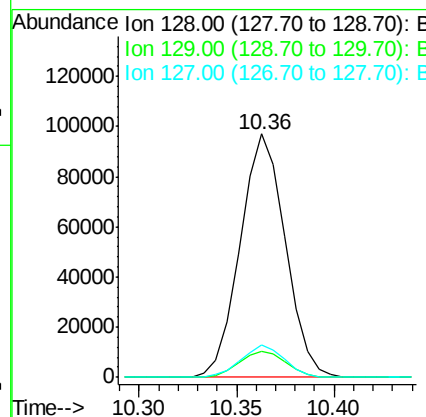
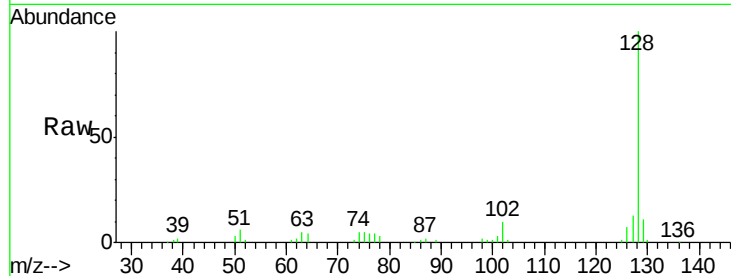




#28
Naphthalene
Concen: 6.16 ng/ul
RT: 10.36 min Scan# 1305
Delta R.T. 0.01 min
Lab File: BM002228.D
Acq: 05 Aug 2015 02:20

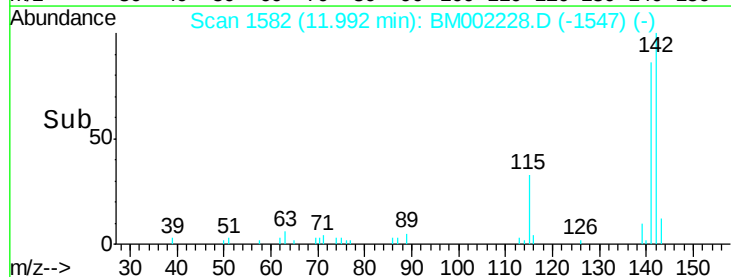
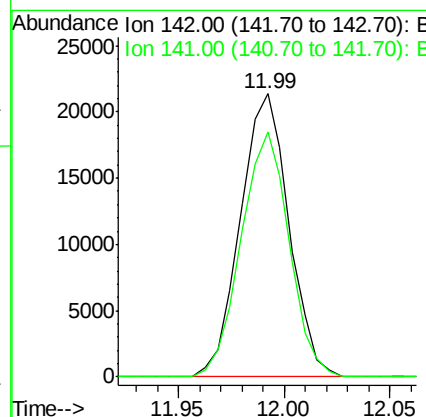
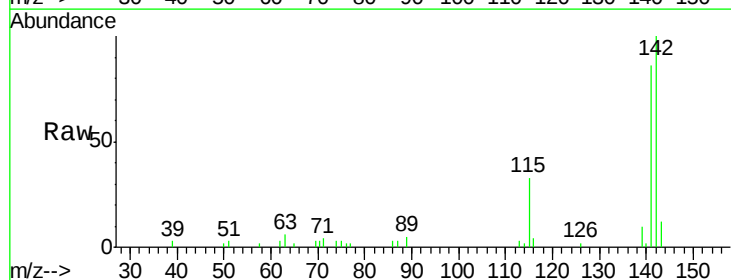
Instrument :
BNA_M
ClientSampleId :
C01S2RE

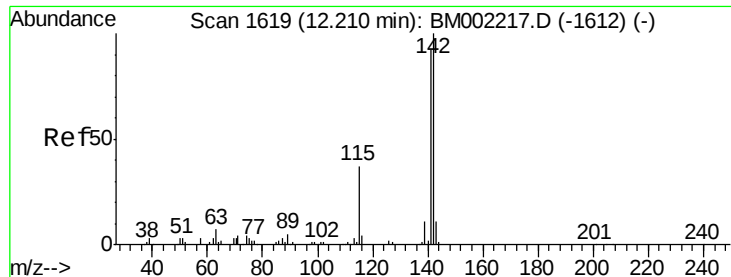
Tgt Ion:128 Resp: 155416
Ion Ratio Lower Upper
128 100
129 10.7 8.2 12.2
127 13.5 10.1 15.1



#34
2-Methylnaphthalene
Concen: 1.75 ng/ul
RT: 11.99 min Scan# 1582
Delta R.T. 0.01 min
Lab File: BM002228.D
Acq: 05 Aug 2015 02:20

Tgt Ion:142 Resp: 34022
Ion Ratio Lower Upper
142 100
141 86.4 68.9 103.3

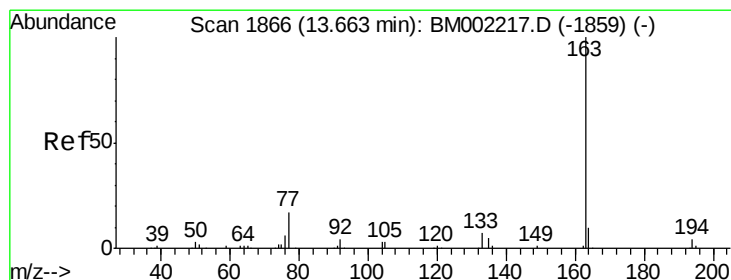
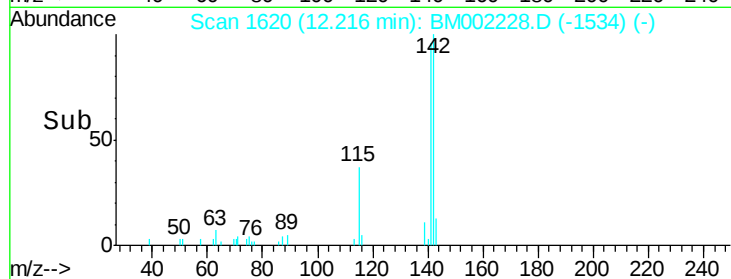
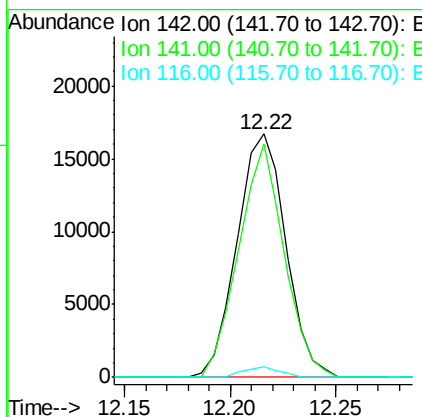
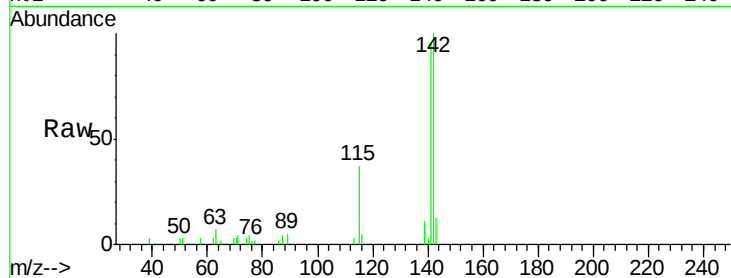




#35
 1-Methylnaphthalene
 Concen: 1.44 ng/ul
 RT: 12.22 min Scan# 1620
 Delta R.T. 0.01 min
 Lab File: BM002228.D
 Acq: 05 Aug 2015 02:20

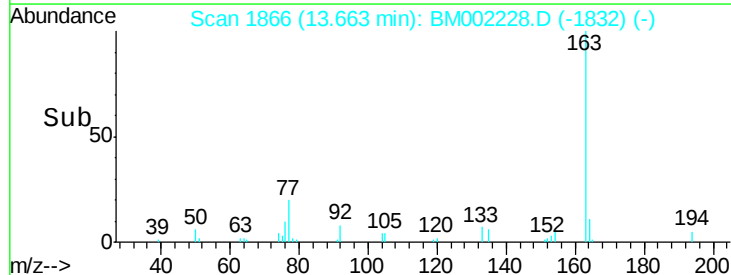
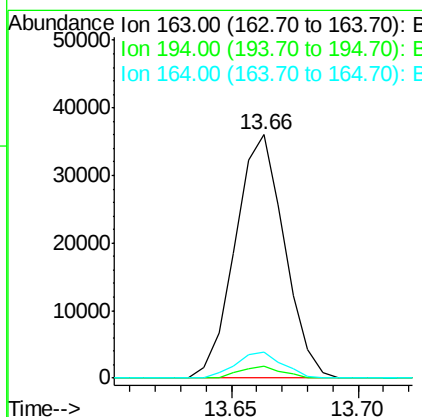
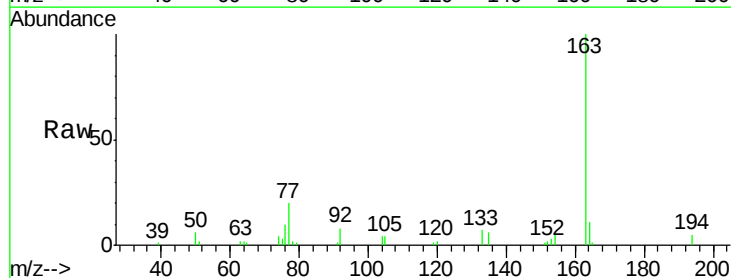
Instrument :
 BNA_M
 ClientSampleId :
 C01S2RE

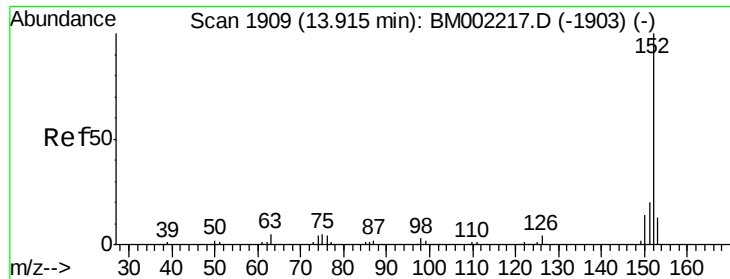
Tgt Ion:142 Resp: 26755
 Ion Ratio Lower Upper
 142 100
 141 95.8 71.0 106.4
 116 4.6 3.3 4.9



#45
 Dimethylphthalate
 Concen: 2.34 ng/ul
 RT: 13.66 min Scan# 1866
 Delta R.T. 0.00 min
 Lab File: BM002228.D
 Acq: 05 Aug 2015 02:20

Tgt Ion:163 Resp: 48692
 Ion Ratio Lower Upper
 163 100
 194 4.7 3.4 5.2
 164 10.5 7.9 11.9





#48

Acenaphthylene

Concen: 6.92 ng/ul

RT: 13.92 min Scan# 1910

Delta R.T. 0.01 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

Instrument :

BNA_M

ClientSampleId :

C01S2RE

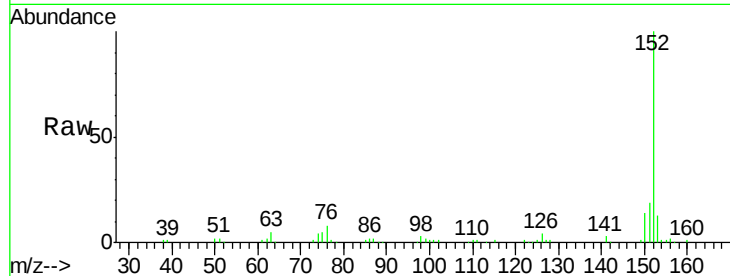
Tgt Ion:152 Resp: 186498

Ion Ratio Lower Upper

152 100

151 18.9 15.2 22.8

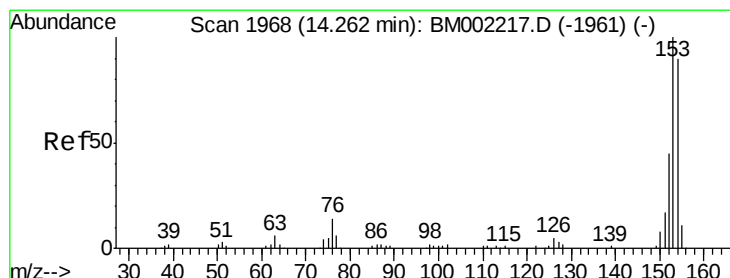
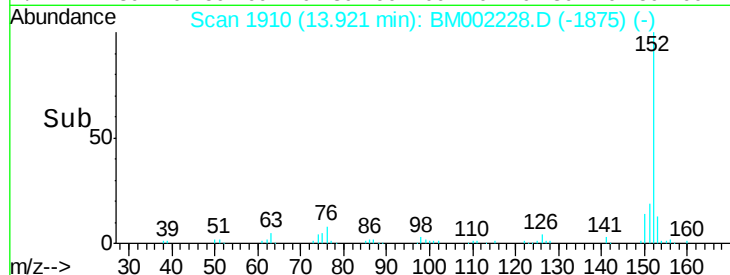
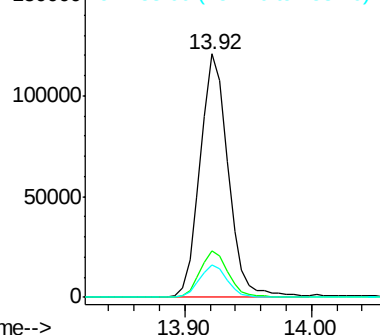
153 13.2 10.3 15.5



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



#50

Acenaphthene

Concen: 13.07 ng/ul

RT: 14.27 min Scan# 1969

Delta R.T. 0.01 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

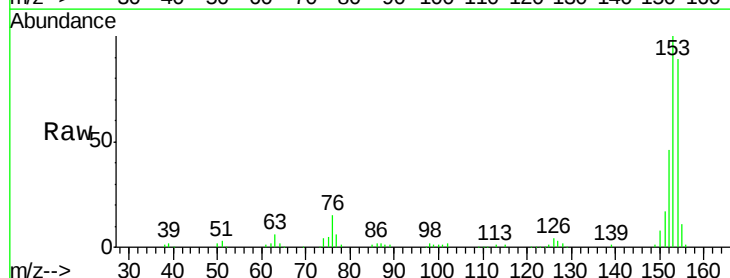
Tgt Ion:153 Resp: 230099

Ion Ratio Lower Upper

153 100

152 46.0 36.6 54.8

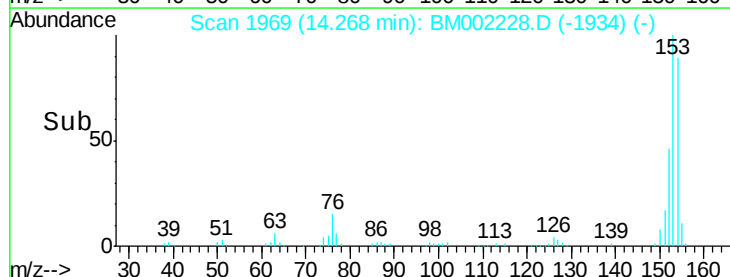
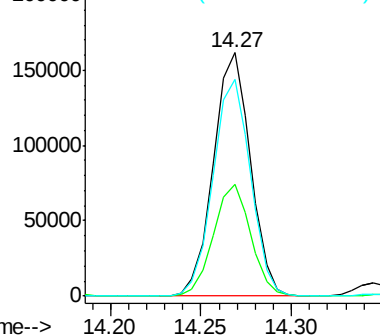
154 89.0 71.7 107.5

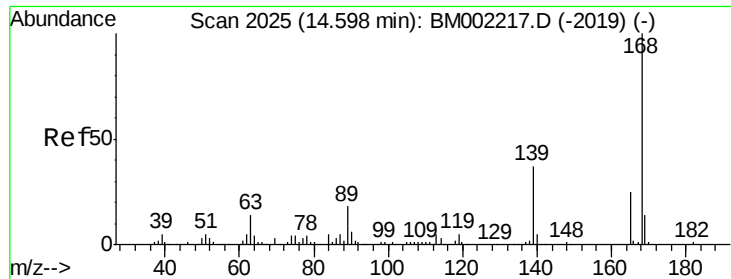


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 5.32 ng/ul

RT: 14.60 min Scan# 2026

Delta R.T. 0.01 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

Instrument :

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ClientSampleId :

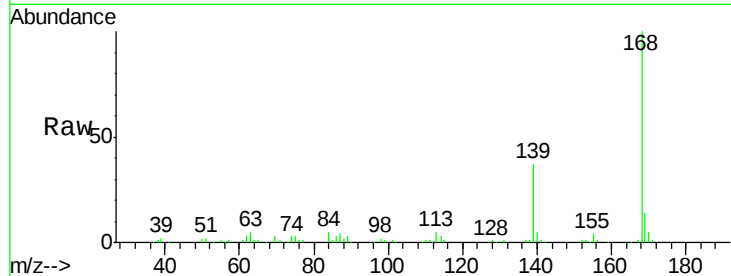
C01S2RE

Tgt Ion:168 Resp: 135625

Ion Ratio Lower Upper

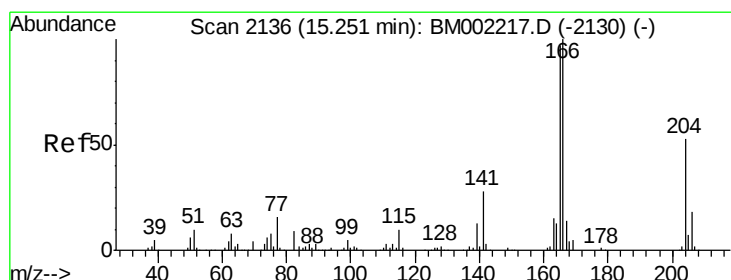
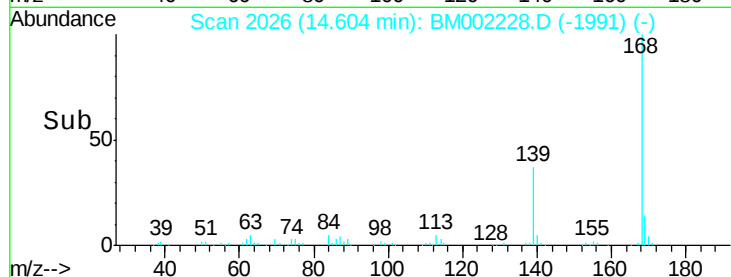
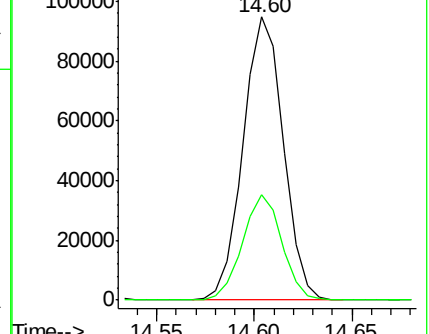
168 100

139 37.4 28.6 42.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 10.32 ng/ul

RT: 15.26 min Scan# 2137

Delta R.T. 0.01 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

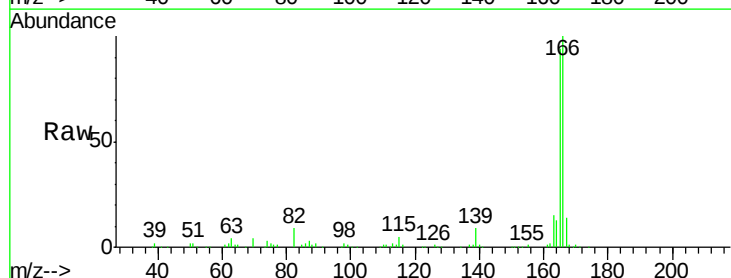
Tgt Ion:166 Resp: 216462

Ion Ratio Lower Upper

166 100

165 94.0 76.0 114.0

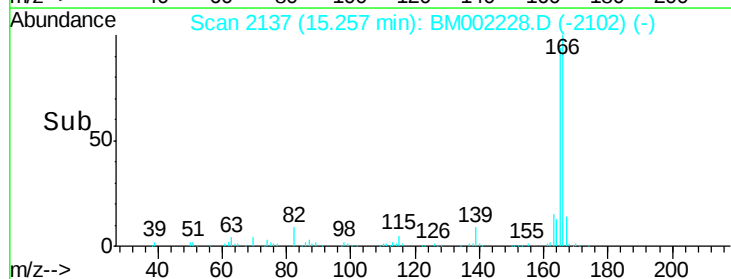
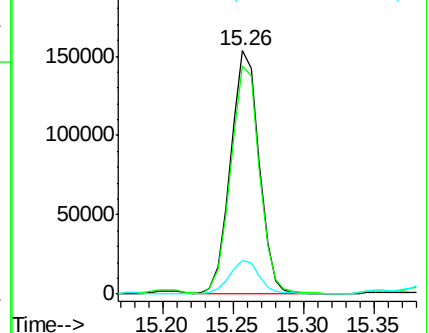
167 14.0 10.5 15.7

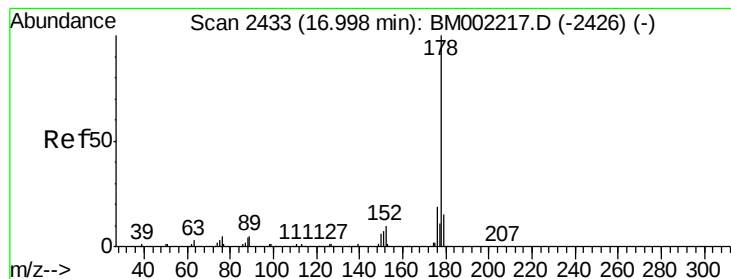


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 103.46 ng/u1

RT: 17.02 min Scan# 2436

Delta R.T. 0.02 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

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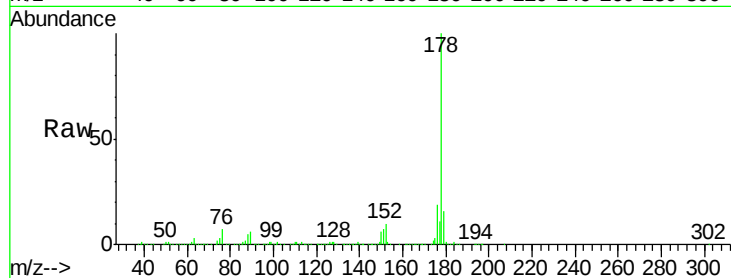
Tgt Ion:178 Resp: 3181303

Ion Ratio Lower Upper

178 100

179 15.6 12.2 18.4

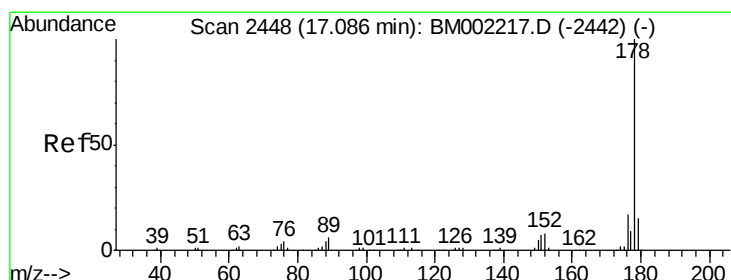
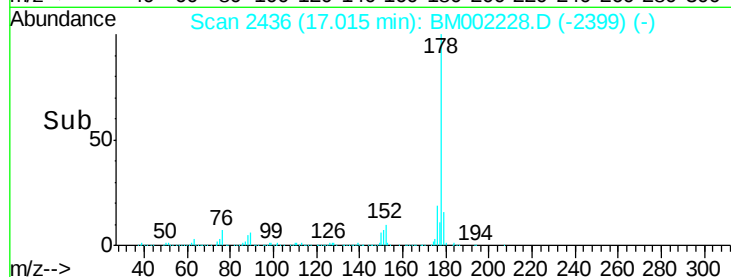
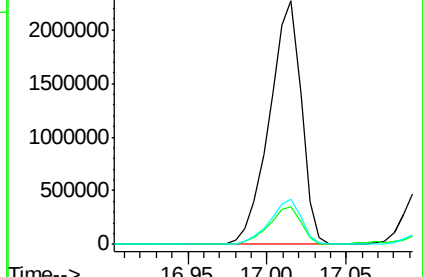
176 18.5 14.6 21.8



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: 23.76 ng/u1

RT: 17.10 min Scan# 2450

Delta R.T. 0.01 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

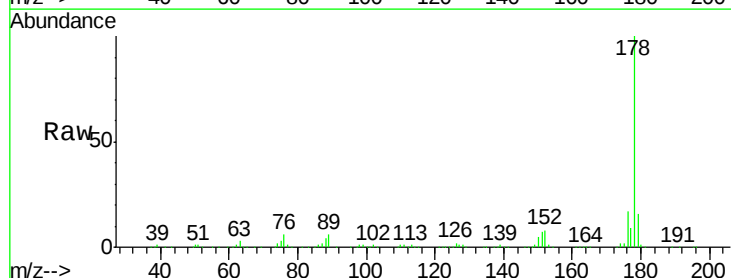
Tgt Ion:178 Resp: 746634

Ion Ratio Lower Upper

178 100

179 15.6 12.2 18.2

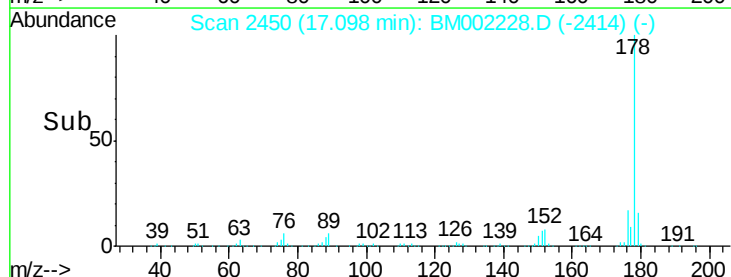
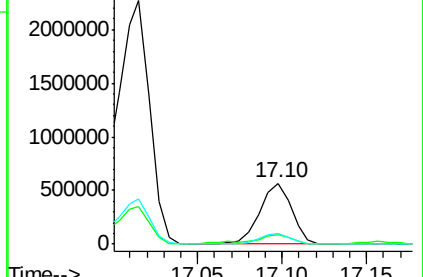
176 17.4 13.8 20.6

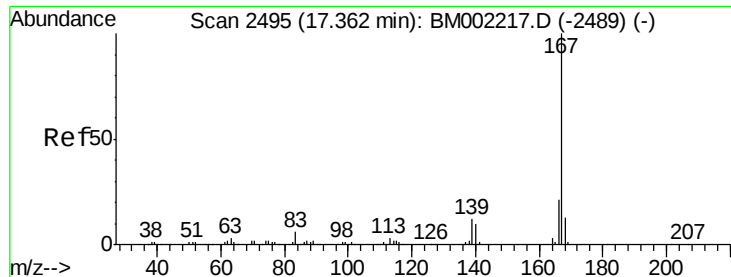


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 11.50 ng/ul

RT: 17.37 min Scan# 2497

Delta R.T. 0.01 min

Lab File: BM002228.D

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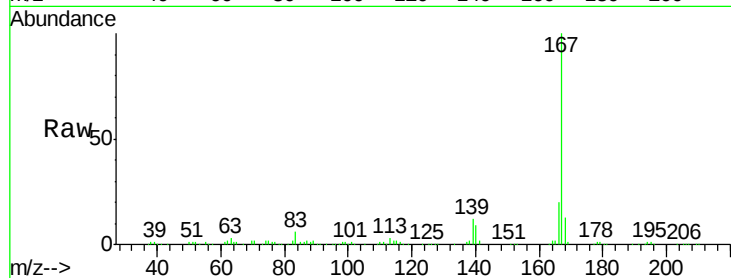
Tgt Ion:167 Resp: 301230

Ion Ratio Lower Upper

167 100

166 20.4 16.7 25.1

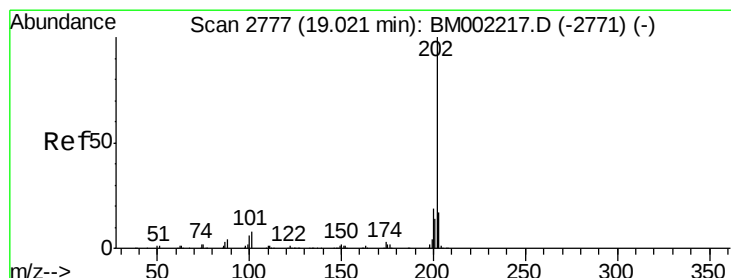
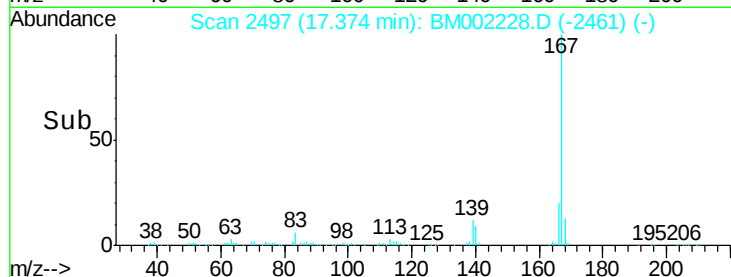
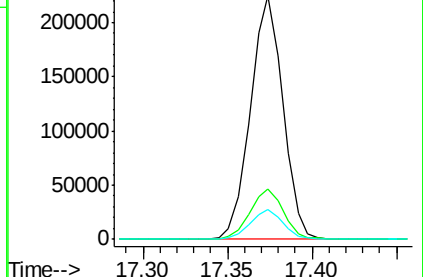
139 12.2 9.4 14.2



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



#77

Fluoranthene

Concen: 2.31 ng/ul

RT: 19.19 min Scan# 2805

Delta R.T. 0.16 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

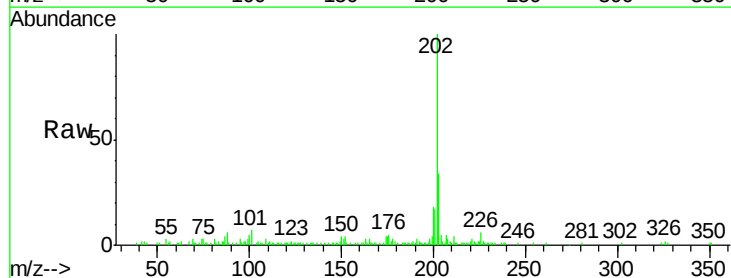
Tgt Ion:202 Resp: 77579

Ion Ratio Lower Upper

202 100

101 7.4 6.2 9.2

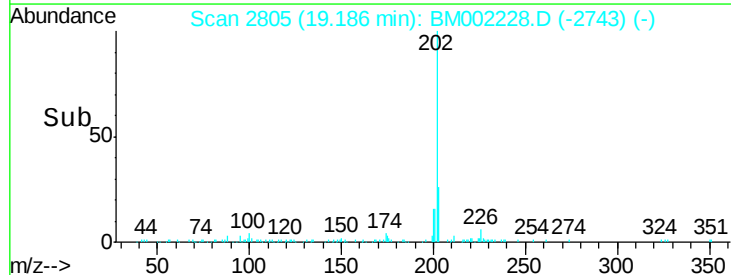
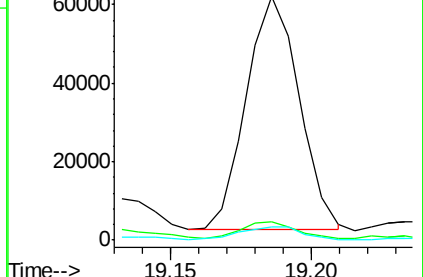
100 5.4 4.8 7.2

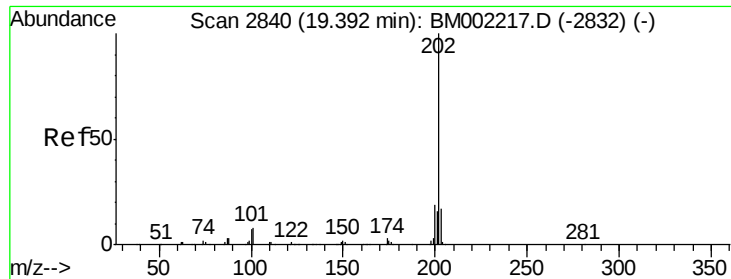


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

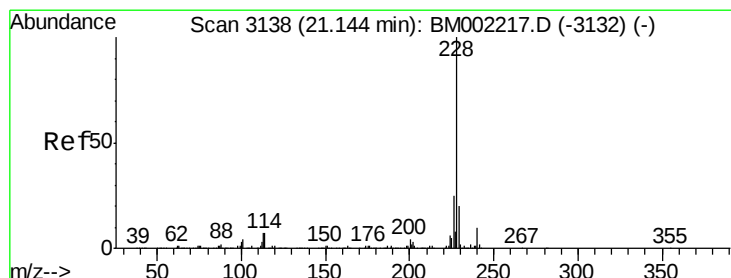
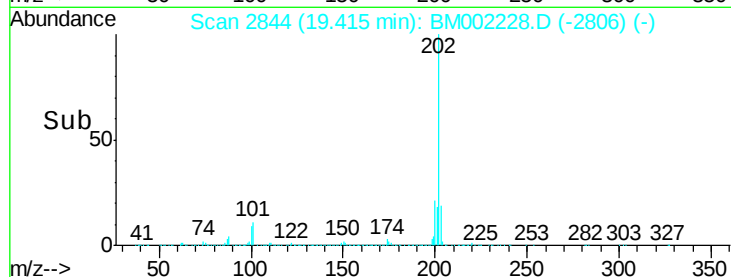
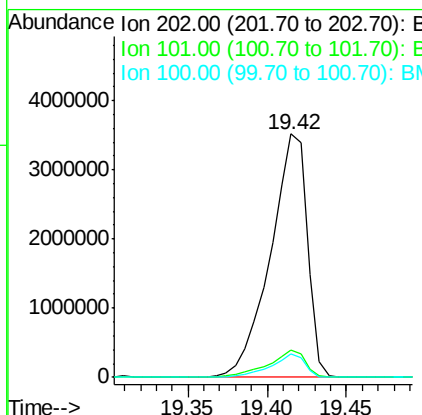
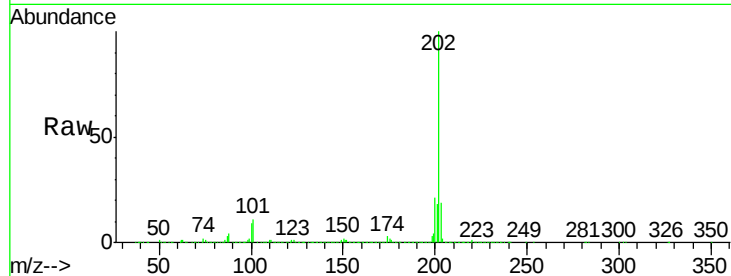




#80
 Pyrene
 Concen: 120.35 ng/ul
 RT: 19.42 min Scan# 2844
 Delta R.T. 0.02 min
 Lab File: BM002228.D
 Acq: 05 Aug 2015 02:20

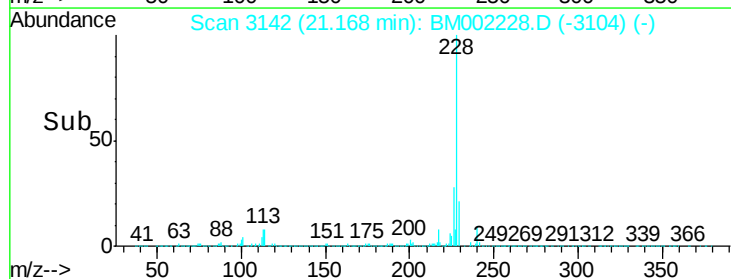
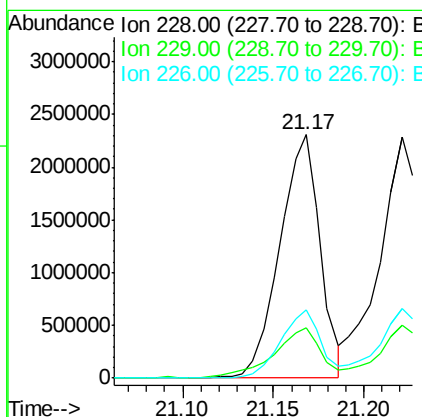
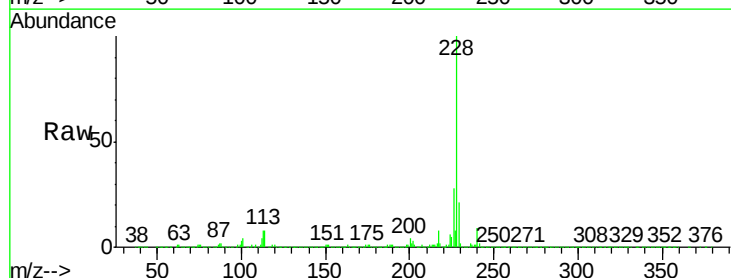
Instrument :
 BNA_M
 ClientSampleId :
 C01S2RE

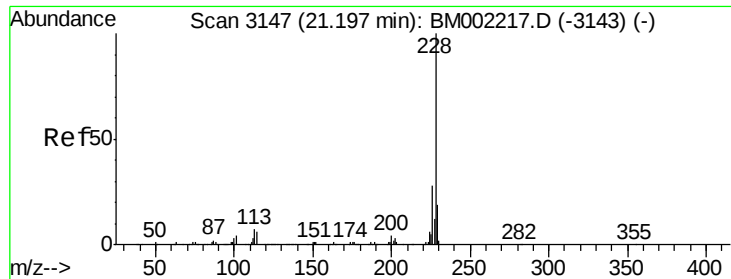
Tgt Ion:202 Resp: 5704995
 Ion Ratio Lower Upper
 202 100
 101 11.2 7.0 10.6#
 100 9.4 5.8 8.8#



#83
 Benzo(a)anthracene
 Concen: 82.37 ng/ul
 RT: 21.17 min Scan# 3142
 Delta R.T. 0.02 min
 Lab File: BM002228.D
 Acq: 05 Aug 2015 02:20

Tgt Ion:228 Resp: 3558632
 Ion Ratio Lower Upper
 228 100
 229 20.9 15.9 23.9
 226 28.0 20.6 31.0

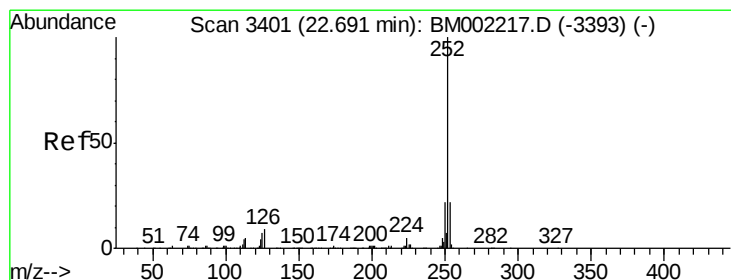
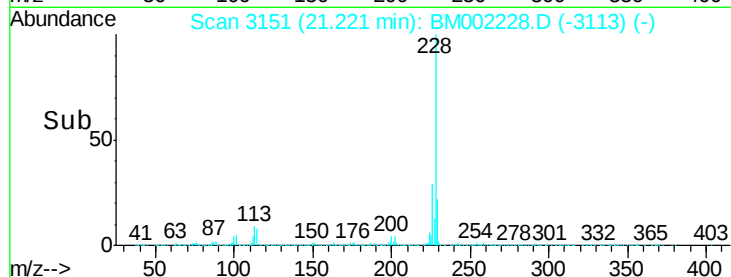
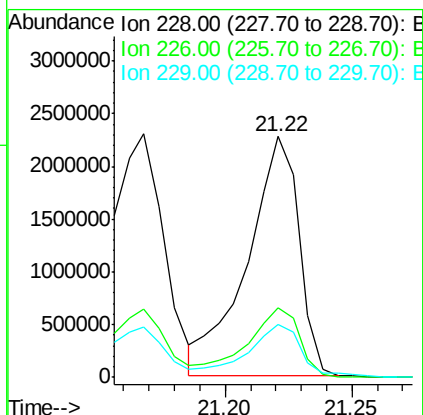
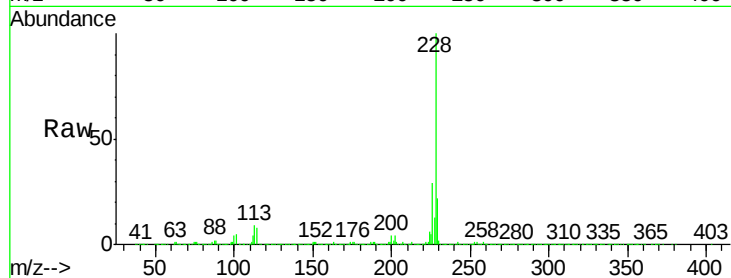




#85
Chrysene
Concen: 81.34 ng/ul
RT: 21.22 min Scan# 3151
Delta R.T. 0.02 min
Lab File: BM002228.D
Acq: 05 Aug 2015 02:20

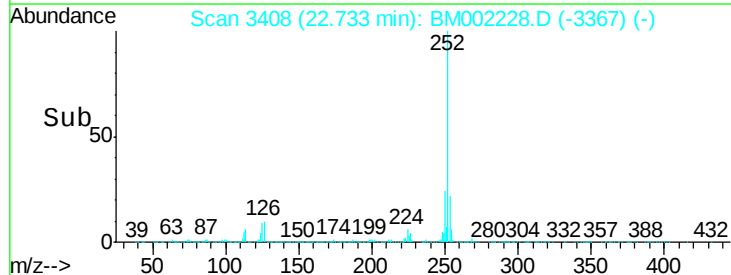
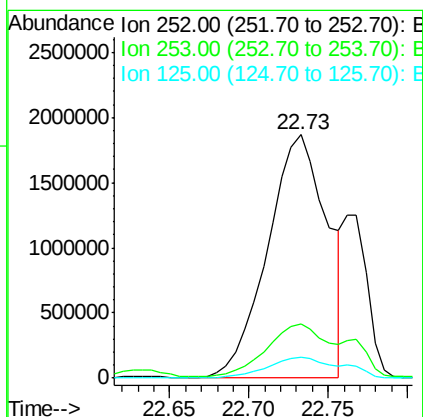
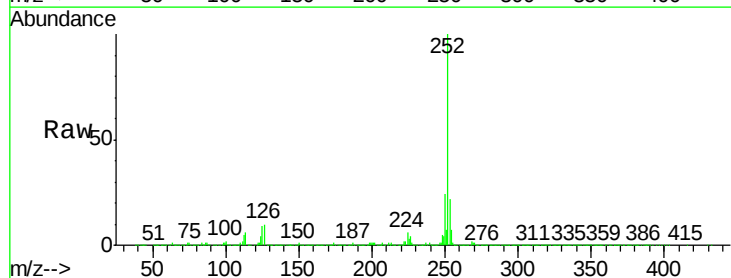
Instrument :
BNA_M
ClientSampleId :
C01S2RE

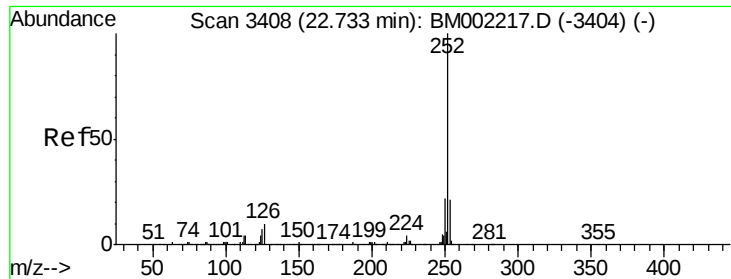
Tgt Ion: 228 Resp: 3235746
Ion Ratio Lower Upper
228 100
226 29.0 22.2 33.4
229 22.2 15.5 23.3



#88
Benzo(b)fluoranthene
Concen: 108.54 ng/ul
RT: 22.73 min Scan# 3408
Delta R.T. 0.04 min
Lab File: BM002228.D
Acq: 05 Aug 2015 02:20

Tgt Ion: 252 Resp: 4866217
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 8.8 5.4 8.2#





#89

Benzo(k)fluoranthene

Concen: 59.12 ng/ul

RT: 22.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

Instrument :

BNA_M

ClientSampleId :

C01S2RE

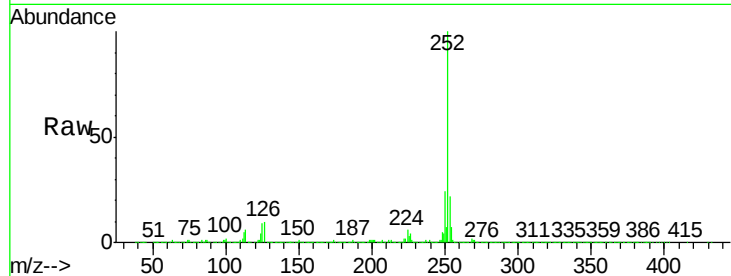
Tgt Ion:252 Resp: 2567021

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.2

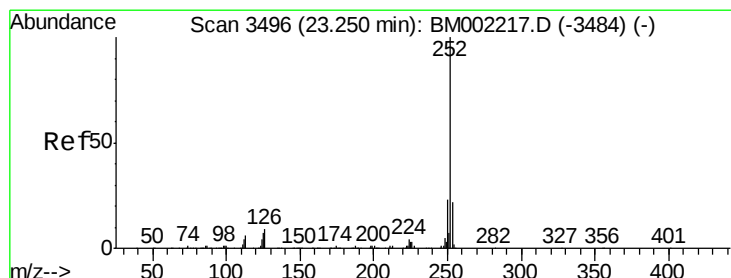
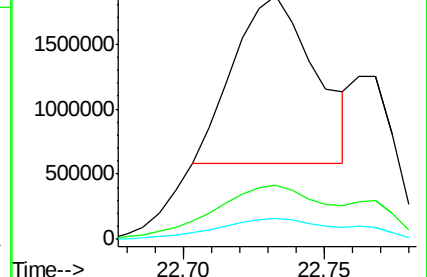
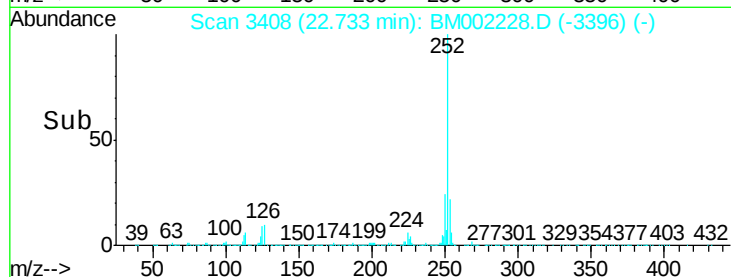
125 8.8 5.6 8.4#



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



#91

Benzo(a)pyrene

Concen: 80.08 ng/ul

RT: 23.30 min Scan# 3504

Delta R.T. 0.05 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

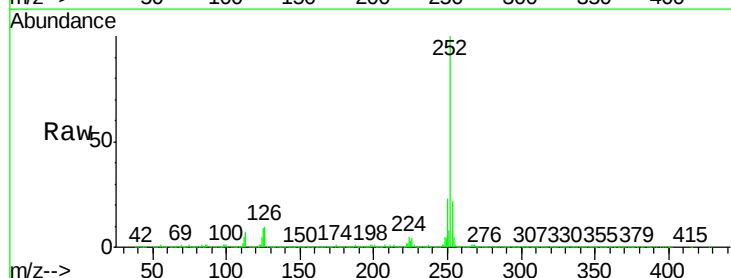
Tgt Ion:252 Resp: 3428829

Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.0

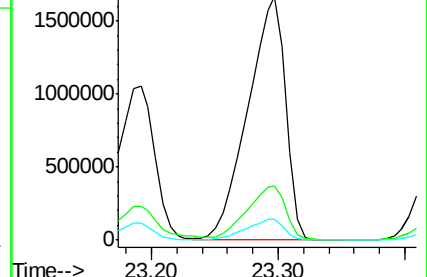
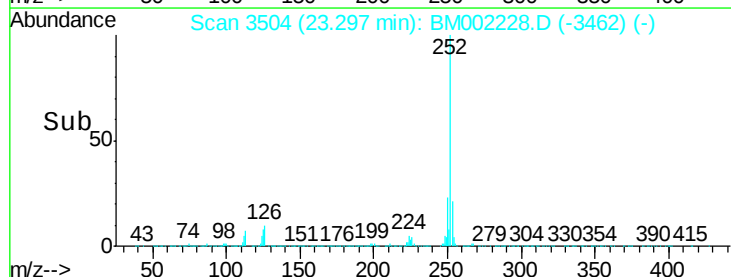
125 8.5 6.1 9.1

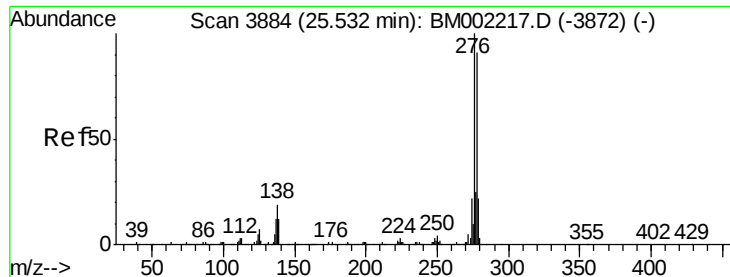


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 47.55 ng/ul

RT: 25.61 min Scan# 3897

Delta R.T. 0.08 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

Instrument :

BNA_M

ClientSampleId :

C01S2RE

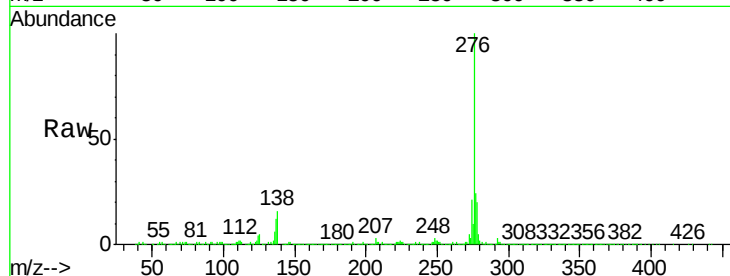
Tgt Ion:276 Resp: 2294067

Ion	Ratio	Lower	Upper
276	100		
138	16.1	15.4	23.0
277	24.2	20.2	30.2

276 100

138 16.1 15.4 23.0

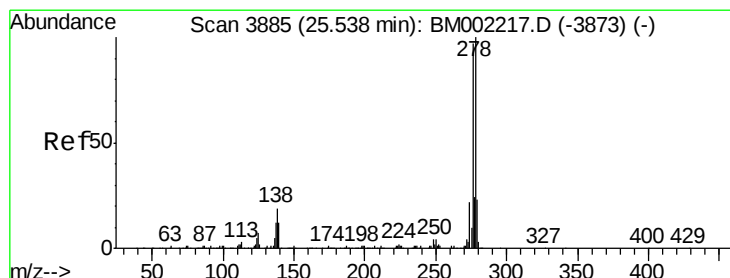
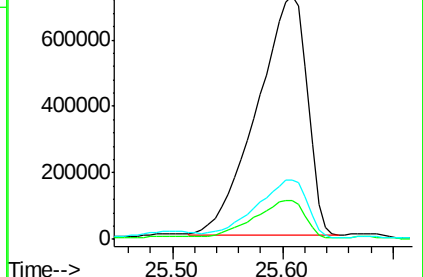
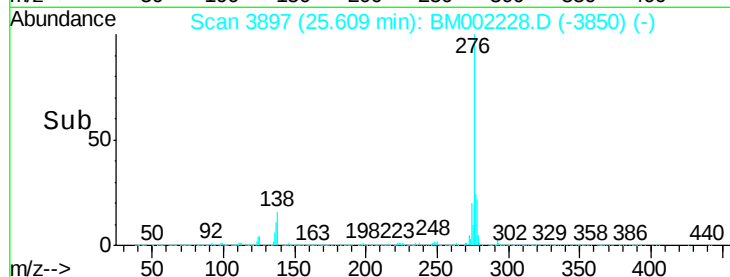
277 24.2 20.2 30.2



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



#93

Dibenzo(a,h)anthracene

Concen: 14.48 ng/ul

RT: 25.60 min Scan# 3895

Delta R.T. 0.06 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

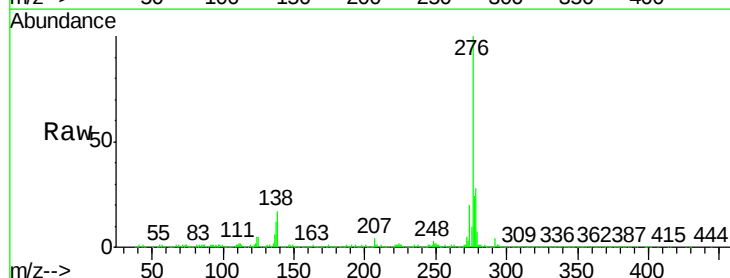
Tgt Ion:278 Resp: 595514

Ion	Ratio	Lower	Upper
278	100		
139	0.0	10.4	15.6#
279	25.2	17.9	26.9

278 100

139 0.0 10.4 15.6#

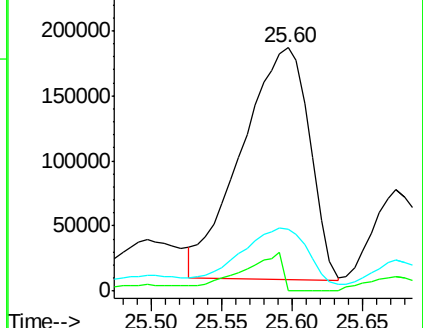
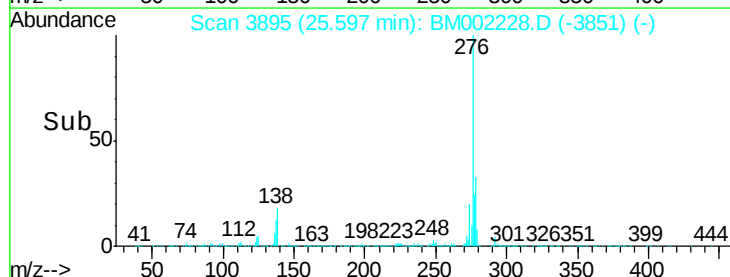
279 25.2 17.9 26.9

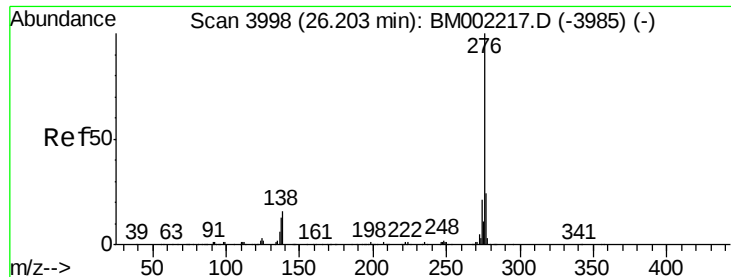


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 53.13 ng/ul

RT: 26.29 min Scan# 4013

Delta R.T. 0.09 min

Lab File: BM002228.D

Acq: 05 Aug 2015 02:20

Instrument :

BNA_M

ClientSampleId :

C01S2RE

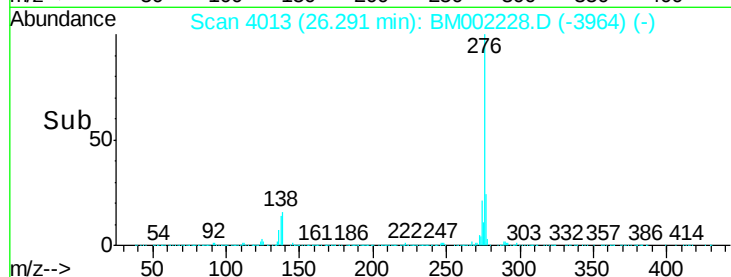
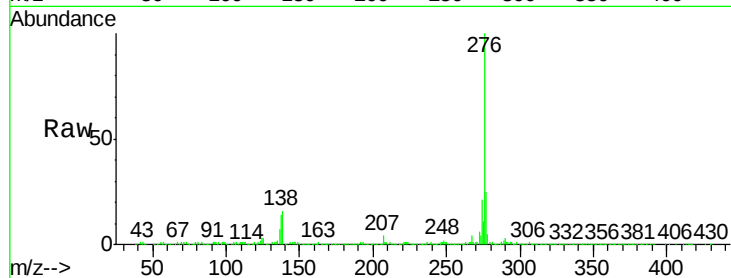
Tgt Ion:276 Resp: 2134840

Ion Ratio Lower Upper

276 100

138 16.4 12.5 18.7

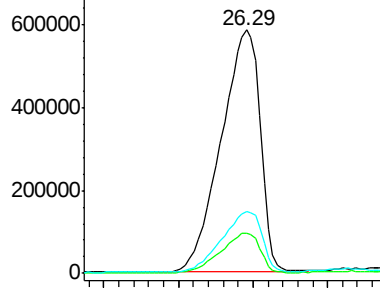
277 25.5 19.4 29.0



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



Time-->