

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM022015\
 Data File : BM000572.D
 Acq On : 20 Feb 2015 23:14
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SOIL-3PPM-SOM0
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

Quant Time: Feb 21 03:36:27 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM01.2-EPA-MA-BM022015.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Feb 21 03:20:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	110200	20.00	ng/ul	0.00
16) Naphthalene-d8	10.46	136	484686	20.00	ng/ul	0.00
33) Acenaphthene-d10	14.32	164	336232	20.00	ng/ul	0.00
59) Phenanthrene-d10	17.07	188	754851	20.00	ng/ul	0.00
75) Chrysene-d12	21.26	240	617830	20.00	ng/ul	0.00
83) Perylene-d12	23.47	264	452056	20.00	ng/ul	0.00

System Monitoring Compounds

3) Phenol-d5	6.85	99	291709	36.36	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	7.01	67	191090	40.31	ng/ul	0.00
7) 2-Chlorophenol-d4	7.20	132	255351	37.42	ng/ul	0.00
11) 4-Methylphenol-d8	8.38	113	256137	37.66	ng/ul	0.00
17) Nitrobenzene-d5	8.83	128	129743	39.89	ng/ul	0.00
20) 2-Nitrophenol-d4	9.55	143	154842	41.12	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	10.08	165	287283	36.01	ng/ul	0.00
27) 4-Chloroaniline-d4	10.60	131	401276	56.39	ng/ul	0.00
41) Dimethylphthalate-d6	13.74	166	1007501	41.40	ng/ul	0.00
44) Acenaphthylene-d8	14.02	160	1228310	37.67	ng/ul	0.00
49) 4-Nitrophenol-d4	14.53	143	145199	37.31	ng/ul	0.00
55) Fluorene-d10	15.32	176	914115	38.44	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	15.44	200	146910	33.49	ng/ul	0.00
68) Anthracene-d10	17.17	188	1395902	39.10	ng/ul	0.00
76) Pyrene-d10	19.47	212	1429053	39.74	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.33	264	841625	39.71	ng/ul	0.00

Target Compounds

						Qvalue
6) Bis(2-Chloroethyl)ether	7.10	93	871	0.14	ng/ul#	69
10) 2,2'-oxybis(1-Chloropropan	8.38	45	2264	0.17	ng/ul#	75
13) N-Nitroso-di-n-propylamine	8.38	70	7004	1.34	ng/ul#	1
18) Nitrobenzene	8.83	77	1067	0.13	ng/ul#	33
19) Isophorone	9.55	82	17189	1.19	ng/ul#	70
34) 1,2,4,5-Tetrachlorobenzene	12.51	216	222	0.02	ng/ul#	26
42) Dimethylphthalate	13.73	163	796	0.03	ng/ul#	1
43) 2,6-Dinitrotoluene	13.74	165	7483	1.58	ng/ul#	38
50) 4-Nitrophenol	14.54	109	408	0.10	ng/ul#	1
56) Fluorene	15.32	166	2158	0.08	ng/ul#	1
58) 4-Nitroaniline	15.44	138	314	0.07	ng/ul#	1
61) 4,6-Dinitro-2-methylphenol	15.44	198	331	0.07	ng/ul#	1
62) N-Nitrosodiphenylamine	15.45	169	1149	0.05	ng/ul#	28
69) Anthracene	17.16	178	267	0.01	ng/ul#	1
70) 1,2,3,4-Tetrachlorobenzene	13.12	216	25880	2.32	ng/uL	96
71) Pentachlorobenzene	14.64	250	53061	4.95	ng/uL	97
73) Di-n-butylphthalate	18.04	149	744	0.02	ng/ul#	78
77) Pyrene	19.47	202	1606	0.03	ng/ul#	1
78) Butylbenzylphthalate	20.42	149	126	0.01	ng/ul#	25
80) Benzo(a)anthracene	21.26	228	1272	0.04	ng/ul#	64
81) Bis(2-ethylhexyl)phthalate	21.17	149	214	0.01	ng/ul#	50
82) Chrysene	21.26	228	1272	0.04	ng/ul#	61
84) Di-n-octyl phthalate	22.06	149	413	0.01	ng/ul	100
85) Benzo(b)fluoranthene	22.83	252	124	0.00	ng/ul#	1

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Quant Title : SVOA CALIBRATION
QLast Update : Sat Feb 21 03:20:44 2015
Response via : Initial Calibration

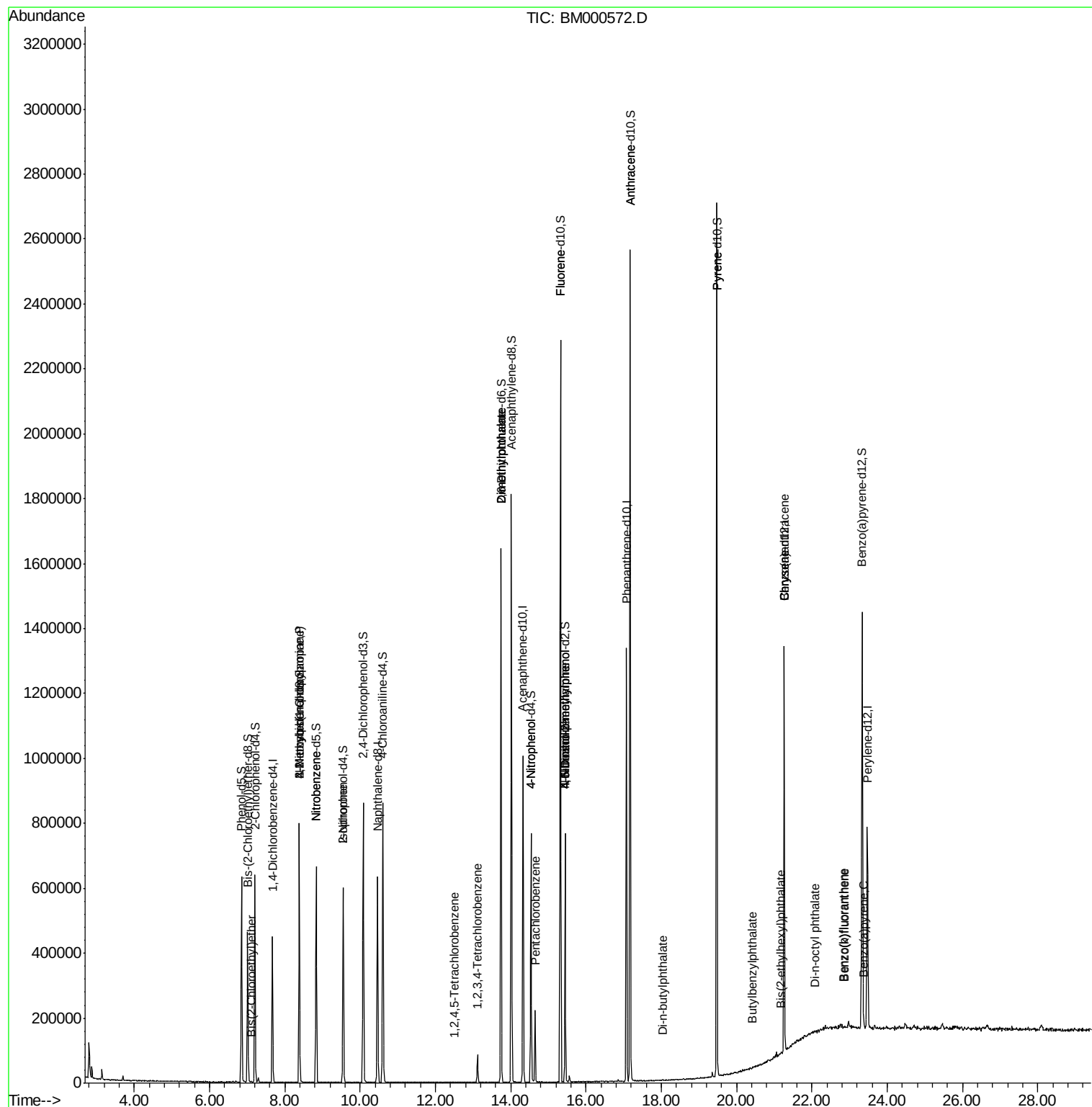
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Benzo(k)fluoranthene	22.87	252	113	0.00	ng/ul#	61
88) Benzo(a)pyrene	23.37	252	122	0.00	ng/ul#	1

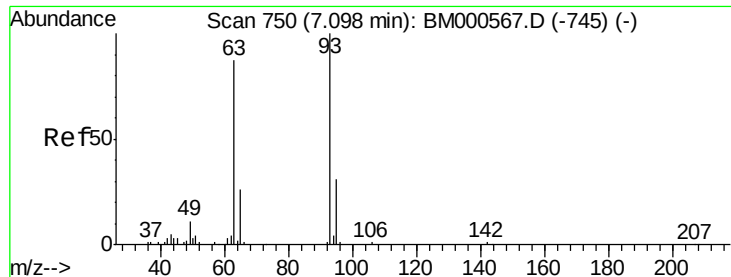
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bis(2-Chloroethyl)ether

Concen: 0.14 ng/ul

RT: 7.10 min Scan# 750

Delta R.T. 0.00 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

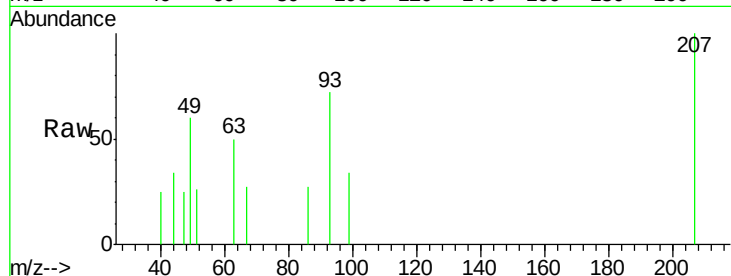
Tgt Ion: 93 Resp: 871

Ion Ratio Lower Upper

93 100

63 69.0 71.2 106.8#

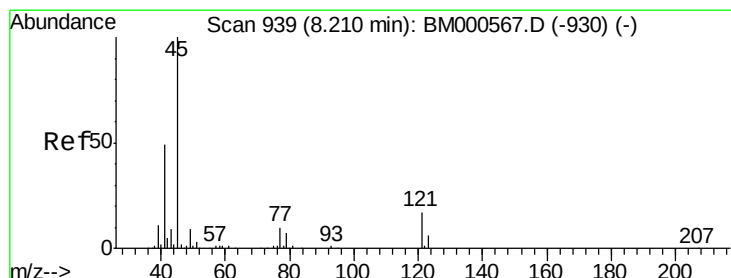
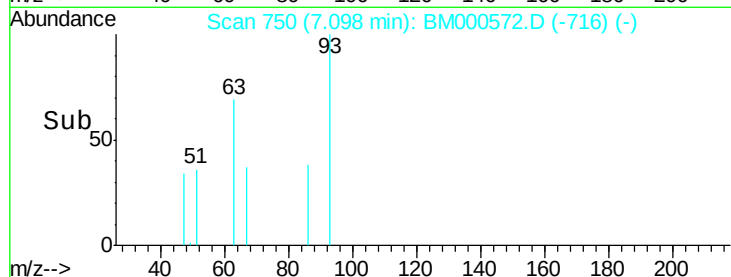
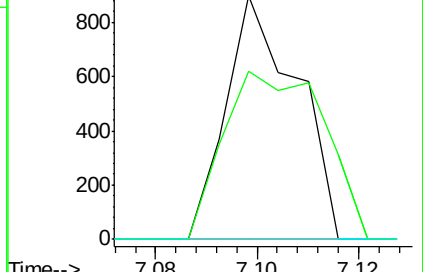
95 0.0 26.1 39.1#



Abundance Ion 93.00 (92.70 to 93.70): BM000567.D (-745) (-)

Ion 63.00 (62.70 to 63.70): BM000567.D (-745) (-)

Ion 95.00 (94.70 to 95.70): BM000567.D (-745) (-)



#10

2,2'-oxybis(1-Chloropropane)

Concen: 0.17 ng/ul

RT: 8.38 min Scan# 968

Delta R.T. 0.17 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

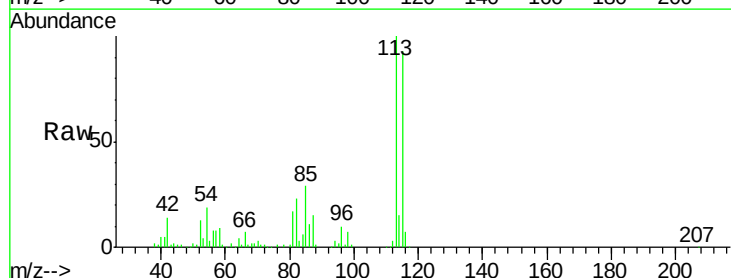
Tgt Ion: 45 Resp: 2264

Ion Ratio Lower Upper

45 100

77 0.0 8.2 12.2#

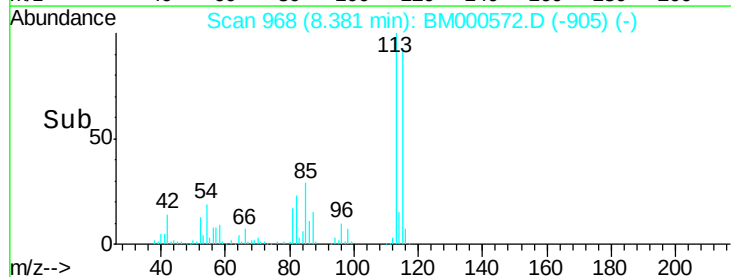
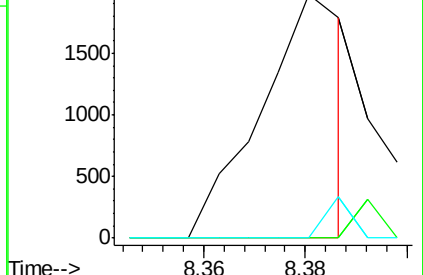
79 0.0 5.8 8.6#

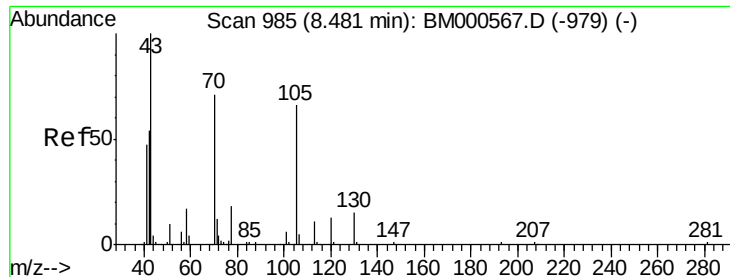


Abundance Ion 45.00 (44.70 to 45.70): BM000567.D (-930) (-)

Ion 77.00 (76.70 to 77.70): BM000567.D (-930) (-)

Ion 79.00 (78.70 to 79.70): BM000567.D (-930) (-)





#13

N-Nitroso-di-n-propylamine

Concen: 1.34 ng/ul

RT: 8.38 min Scan# 968

Delta R.T. -0.10 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

Tgt Ion: 70 Resp: 7004

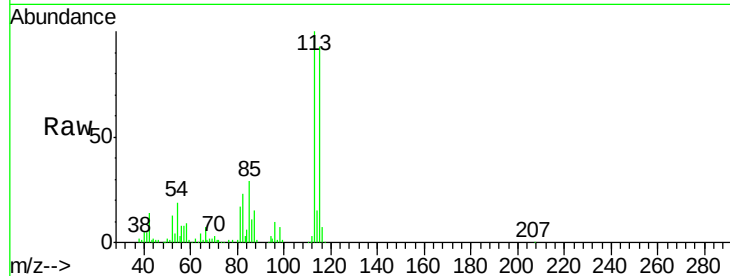
Ion Ratio Lower Upper

70 100

42 458.6 63.3 94.9#

101 0.0 8.2 12.4#

130 0.0 17.8 26.8#

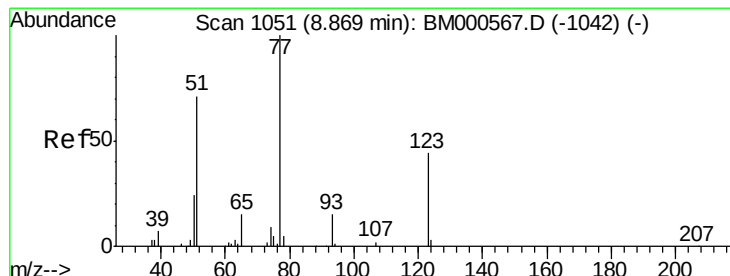
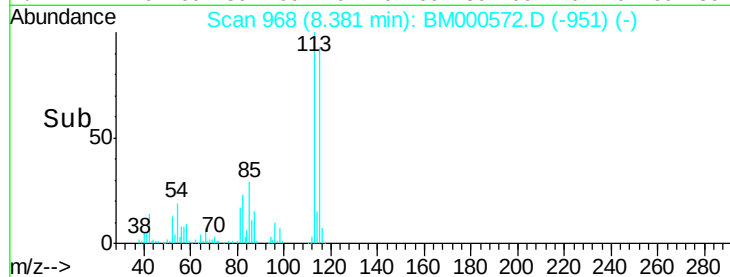
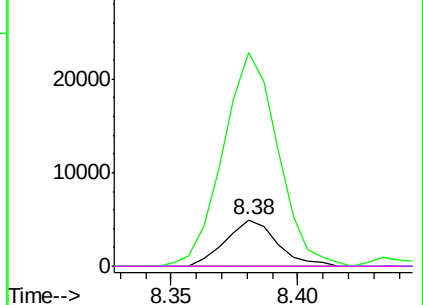


Abundance Ion 70.00 (69.70 to 70.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#18

Nitrobenzene

Concen: 0.13 ng/ul

RT: 8.83 min Scan# 1044

Delta R.T. -0.04 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

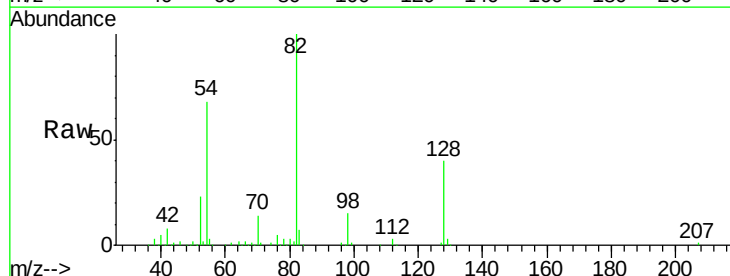
Tgt Ion: 77 Resp: 1067

Ion Ratio Lower Upper

77 100

123 0.0 35.7 53.5#

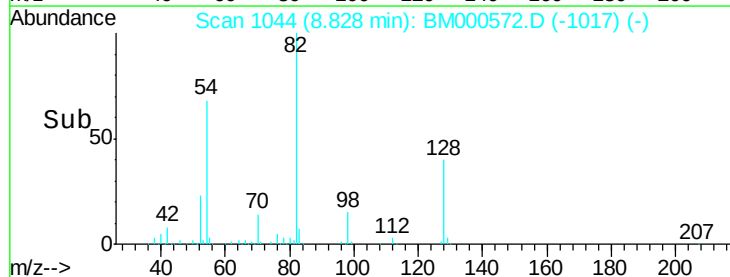
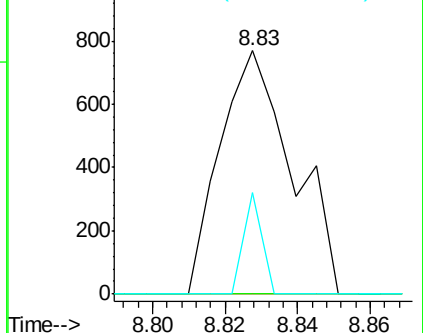
65 41.7 12.3 18.5#

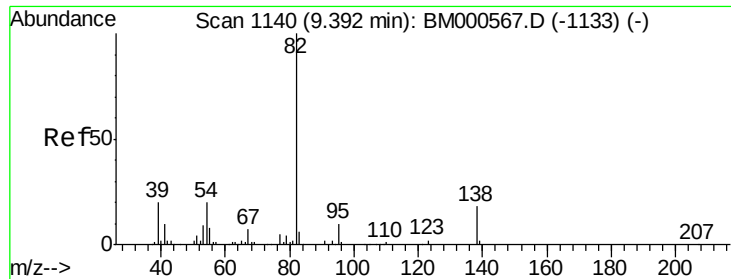


Abundance Ion 77.00 (76.70 to 77.70): BM0

Ion 123.00 (122.70 to 123.70): E

Ion 65.00 (64.70 to 65.70): BM0





#19

Isophorone

Concen: 1.19 ng/ul

RT: 9.55 min Scan# 1166

Delta R.T. 0.15 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

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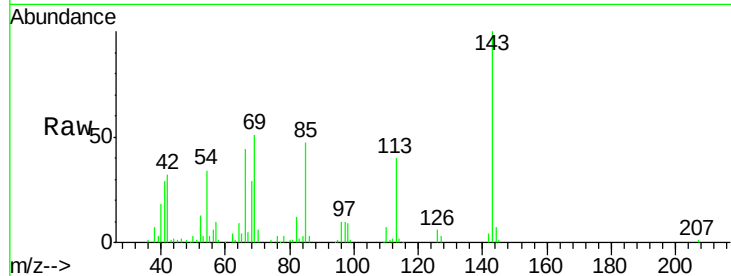
Tgt Ion: 82 Resp: 17189

Ion Ratio Lower Upper

82 100

95 6.8 7.0 10.4#

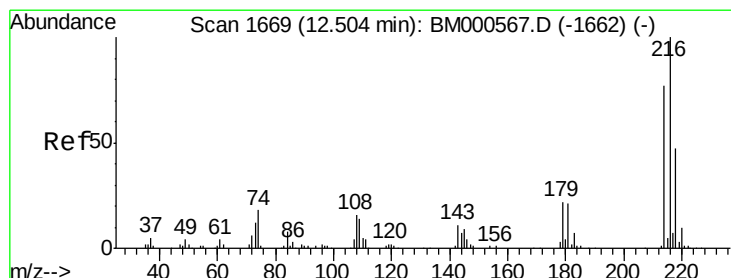
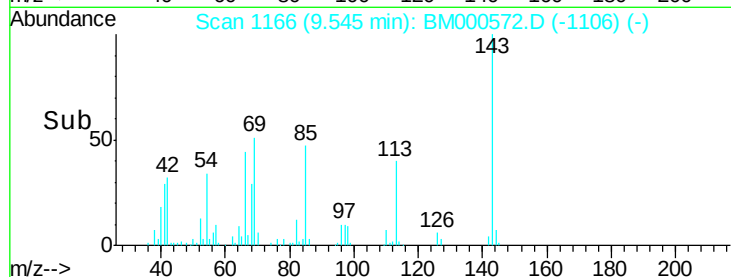
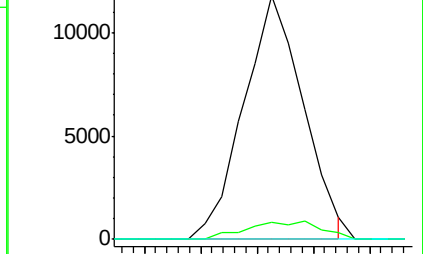
138 0.0 15.1 22.7#



Abundance Ion 82.00 (81.70 to 82.70): BM000567.D (-1133) (-)

Ion 95.00 (94.70 to 95.70): BM000567.D (-1133) (-)

Ion 138.00 (137.70 to 138.70): BM000567.D (-1133) (-)



#34

1,2,4,5-Tetrachlorobenzene

Concen: 0.02 ng/ul

RT: 12.51 min Scan# 1670

Delta R.T. 0.01 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

Tgt Ion: 216 Resp: 222

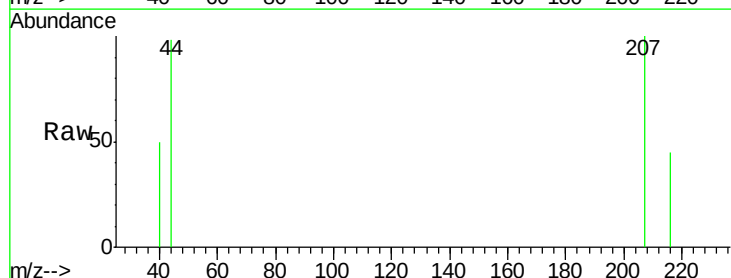
Ion Ratio Lower Upper

216 100

214 0.0 62.6 94.0#

179 0.0 16.4 24.6#

108 0.0 14.0 21.0#

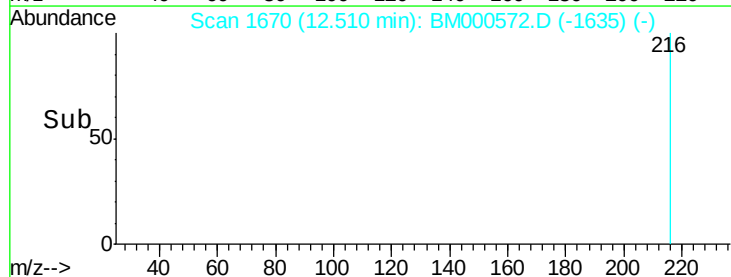
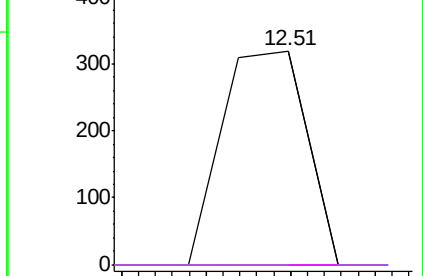


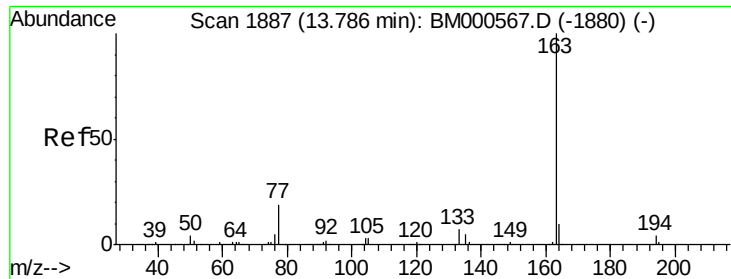
Abundance Ion 216.00 (215.70 to 216.70): BM000567.D (-1662) (-)

Ion 214.00 (213.70 to 214.70): BM000567.D (-1662) (-)

Ion 179.00 (178.70 to 179.70): BM000567.D (-1662) (-)

Ion 108.00 (107.70 to 108.70): BM000567.D (-1662) (-)





#42

Dimethylphthalate

Concen: 0.03 ng/ul

RT: 13.73 min Scan# 1878

Delta R.T. -0.05 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

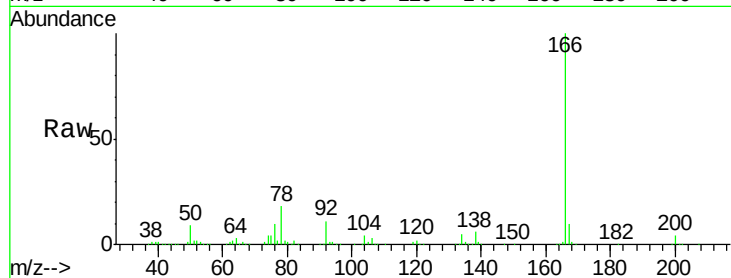
Instrument :

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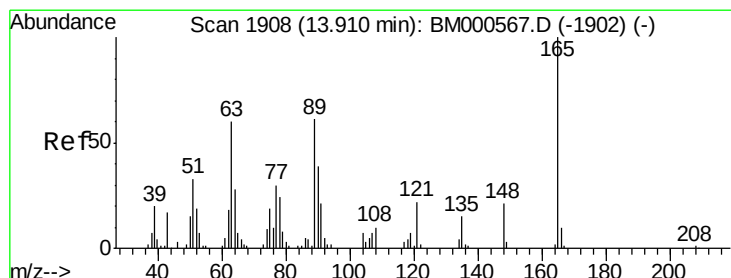
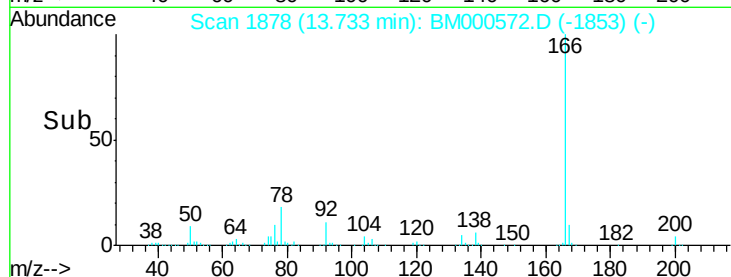
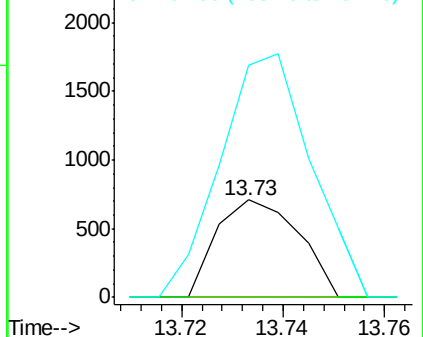
Tgt Ion:	163	Resp:	796
Ion Ratio	Lower	Upper	
163	100		
194	0.0	3.3	4.9#
164	238.0	7.9	11.9#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#43

2,6-Dinitrotoluene

Concen: 1.58 ng/ul

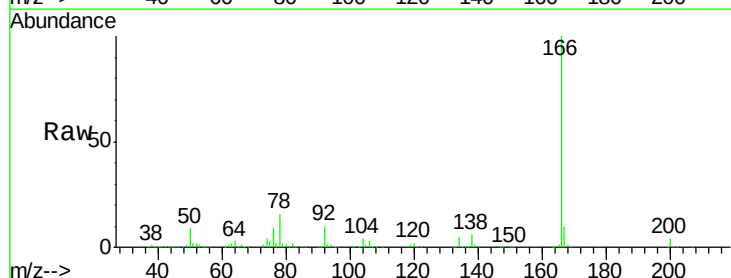
RT: 13.74 min Scan# 1879

Delta R.T. -0.17 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

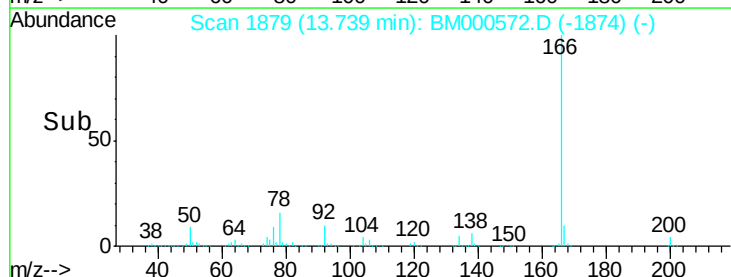
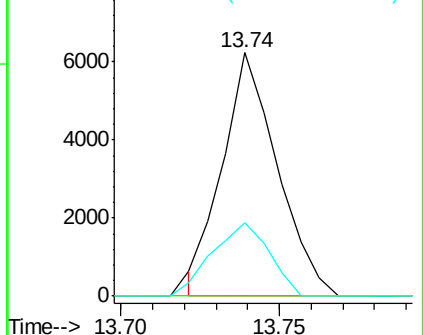
Tgt Ion:	165	Resp:	7483
Ion Ratio	Lower	Upper	
165	100		
89	0.0	47.8	71.8#
121	30.0	18.1	27.1#

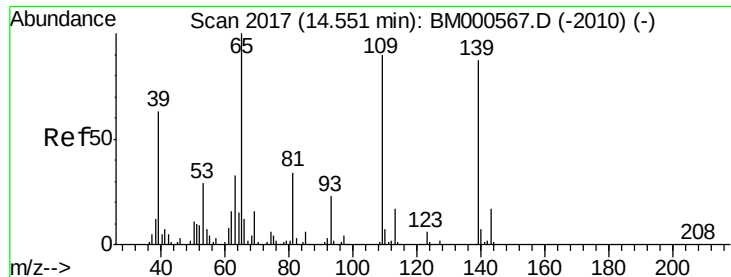


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 89.00 (88.70 to 89.70): BM0

Ion 121.00 (120.70 to 121.70): E





#50

4-Nitrophenol

Concen: 0.10 ng/ul

RT: 14.54 min Scan# 2015

Delta R.T. -0.01 min

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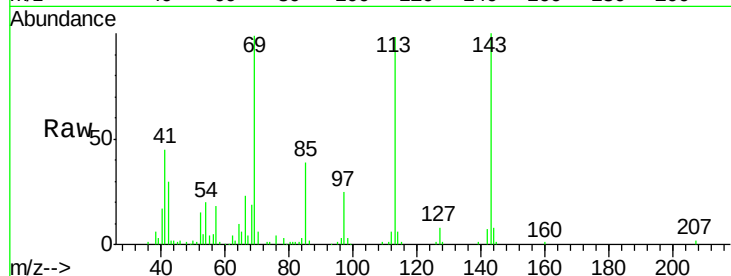
Tgt Ion:109 Resp: 408

Ion Ratio Lower Upper

109 100

139 88.9 78.2 117.4

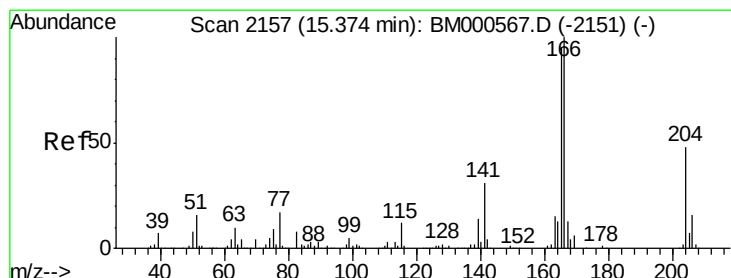
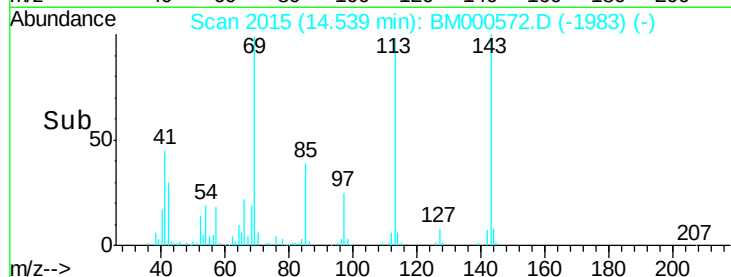
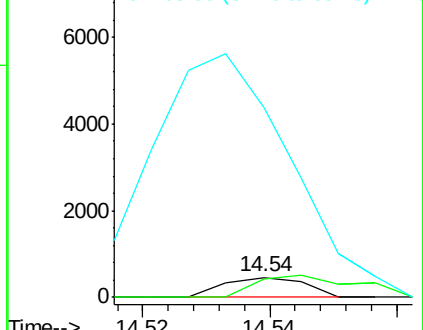
65 941.3 93.7 140.5#



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): BM



#56

Fluorene

Concen: 0.08 ng/ul

RT: 15.32 min Scan# 2148

Delta R.T. -0.05 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

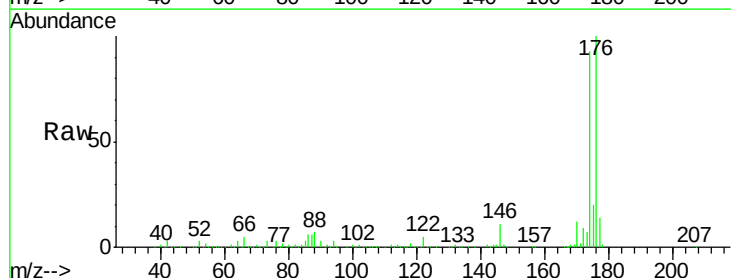
Tgt Ion:166 Resp: 2158

Ion Ratio Lower Upper

166 100

165 0.0 74.4 111.6#

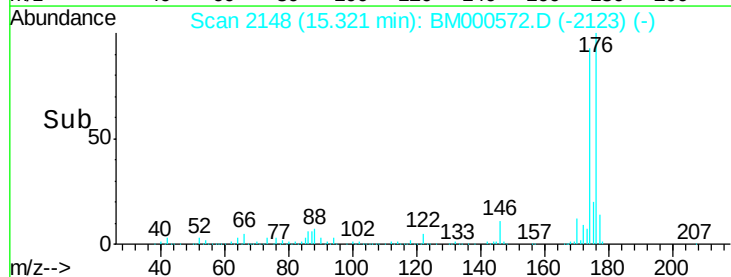
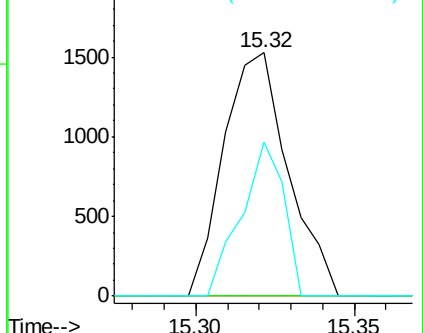
167 63.0 10.2 15.4#

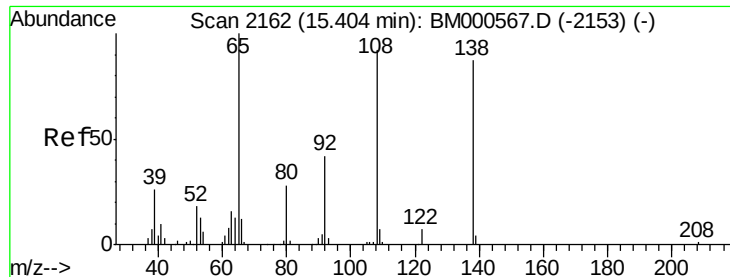


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

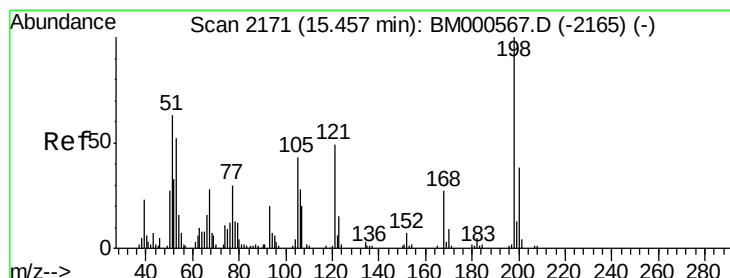
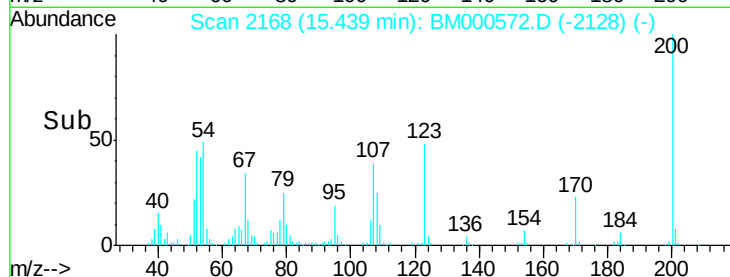
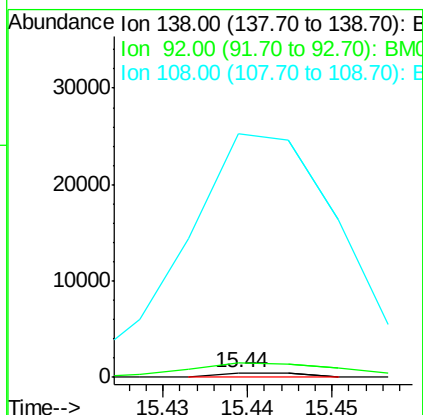
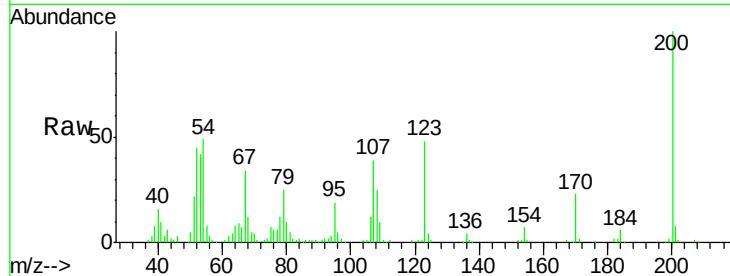




#58
4-Nitroaniline
Concen: 0.07 ng/ul
RT: 15.44 min Scan# 2168
Delta R.T. 0.04 min
Lab File: BM000572.D
Acq: 20 Feb 2015 23:14

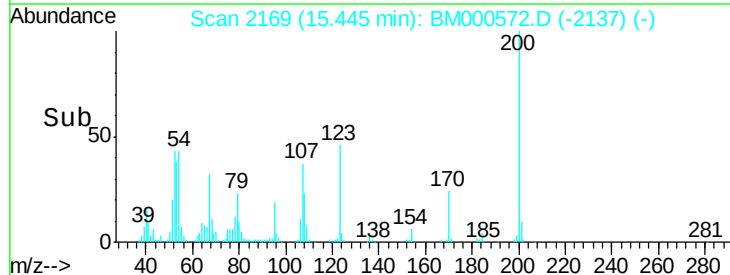
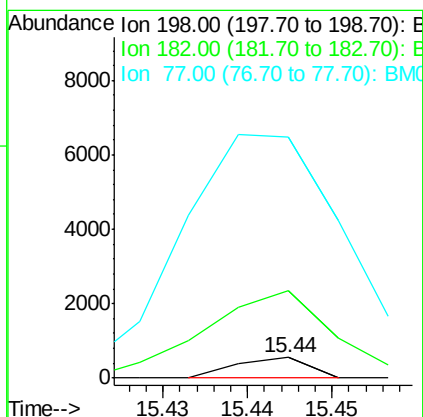
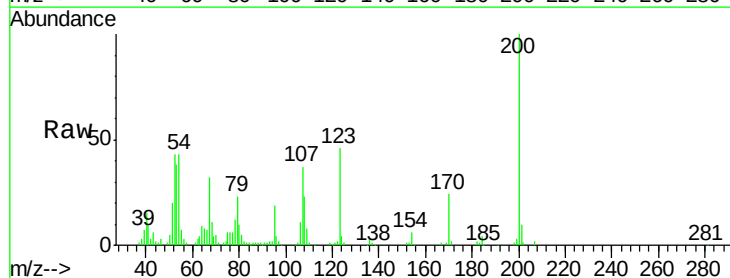
Instrument :
BNA_M
ClientSampleId :
MDL-04-S

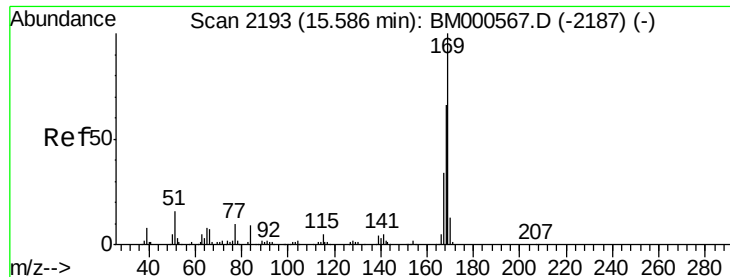
Tgt Ion:138 Resp: 314
Ion Ratio Lower Upper
138 100
92 315.3 42.2 63.2#
108 5145.4 83.5 125.3#



#61
4,6-Dinitro-2-methylphenol
Concen: 0.07 ng/ul
RT: 15.44 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BM000572.D
Acq: 20 Feb 2015 23:14

Tgt Ion:198 Resp: 331
Ion Ratio Lower Upper
198 100
182 420.9 3.2 4.8#
77 1168.5 22.2 33.2#





#62

N-Nitrosodiphenylamine

Concen: 0.05 ng/ul

RT: 15.45 min Scan# 2170

Delta R.T. -0.14 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

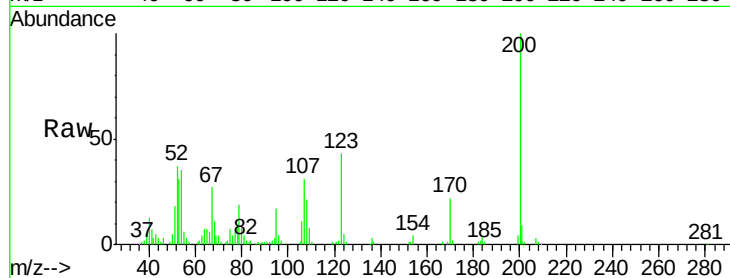
Tgt Ion:169 Resp: 1149

Ion Ratio Lower Upper

169 100

168 0.0 53.3 79.9#

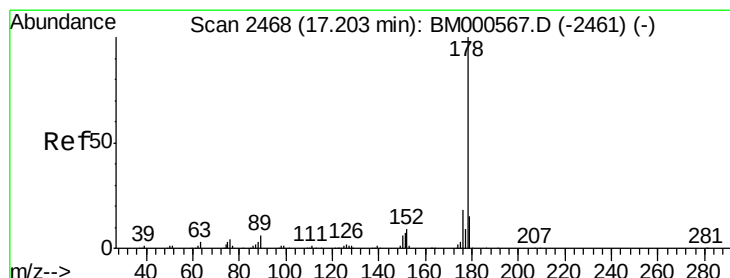
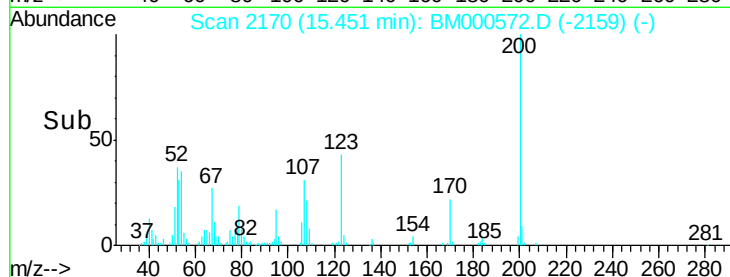
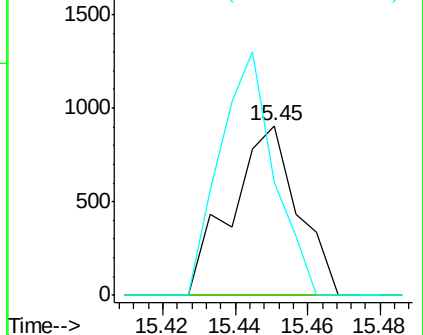
167 66.6 29.4 44.2#



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



#69

Anthracene

Concen: 0.01 ng/ul

RT: 17.16 min Scan# 2461

Delta R.T. -0.04 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

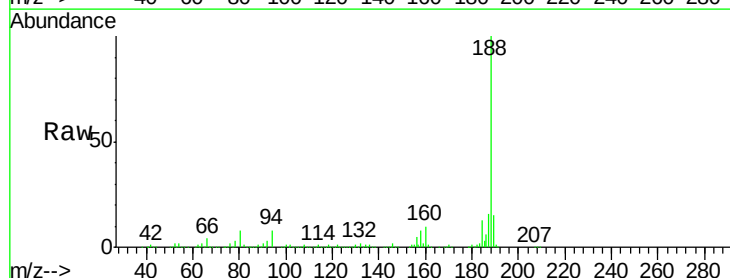
Tgt Ion:178 Resp: 267

Ion Ratio Lower Upper

178 100

179 213.6 12.2 18.4#

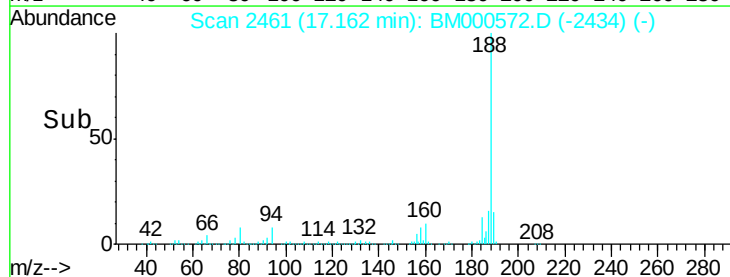
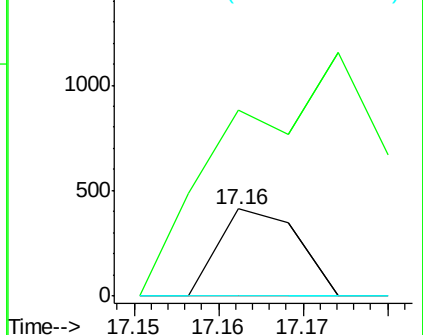
176 0.0 15.0 22.6#

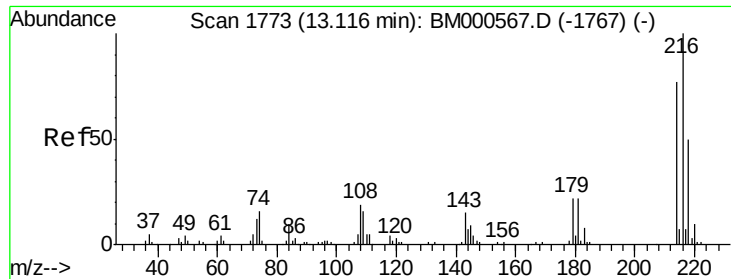


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

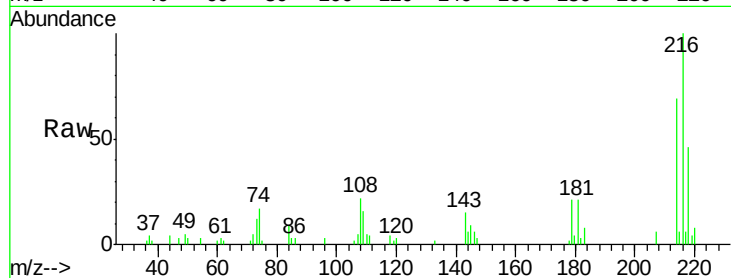




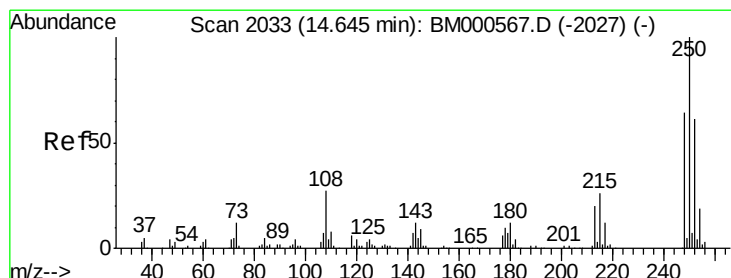
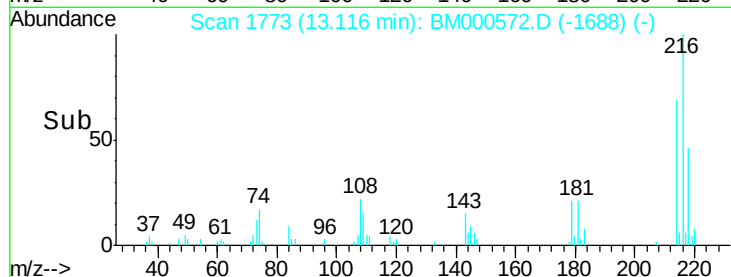
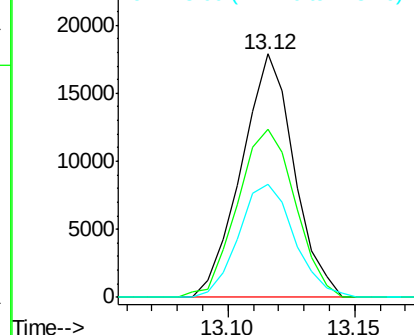
#70
 1,2,3,4-Tetrachlorobenzene
 Concen: 2.32 ng/uL
 RT: 13.12 min Scan# 1773
 Delta R.T. 0.00 min
 Lab File: BM000572.D
 Acq: 20 Feb 2015 23:14

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

Tgt Ion:216 Resp: 25880
 Ion Ratio Lower Upper
 216 100
 214 69.0 59.1 88.7
 218 46.3 37.6 56.4

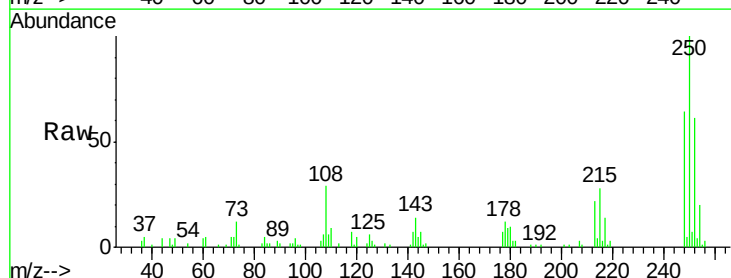


Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 218.00 (217.70 to 218.70): E

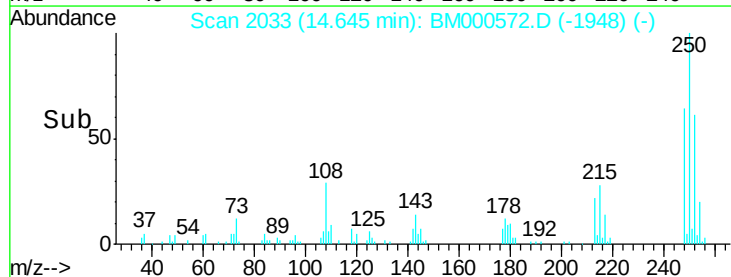
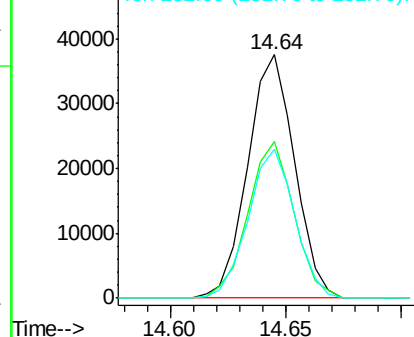


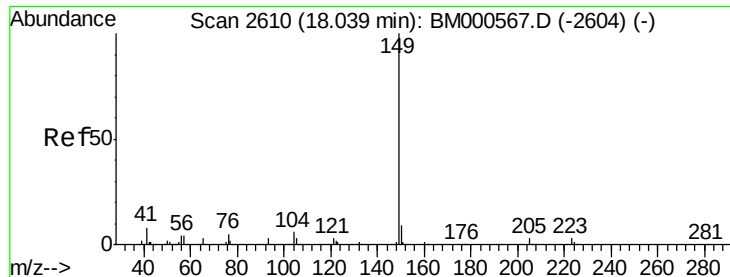
#71
 Pentachlorobenzene
 Concen: 4.95 ng/uL
 RT: 14.64 min Scan# 2033
 Delta R.T. 0.00 min
 Lab File: BM000572.D
 Acq: 20 Feb 2015 23:14

Tgt Ion:250 Resp: 53061
 Ion Ratio Lower Upper
 250 100
 248 64.2 52.4 78.6
 252 61.1 51.5 77.3



Abundance Ion 250.00 (249.70 to 250.70): E
 Ion 248.00 (247.70 to 248.70): E
 Ion 252.00 (251.70 to 252.70): E





#73

Di-n-butylphthalate

Concen: 0.02 ng/ul

RT: 18.04 min Scan# 2610

Delta R.T. 0.00 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

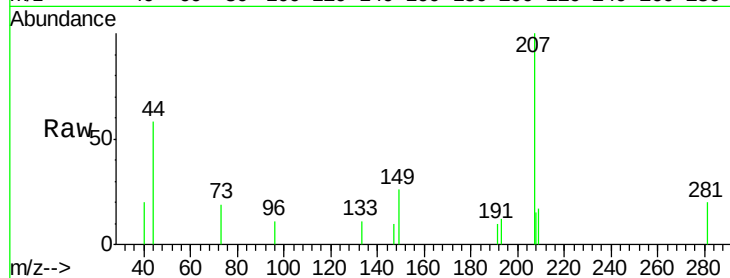
Tgt Ion:149 Resp: 744

Ion Ratio Lower Upper

149 100

150 0.0 7.3 10.9#

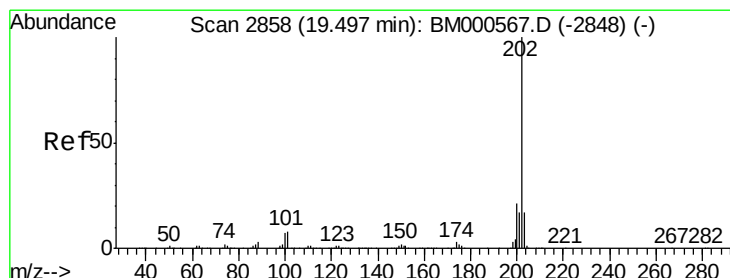
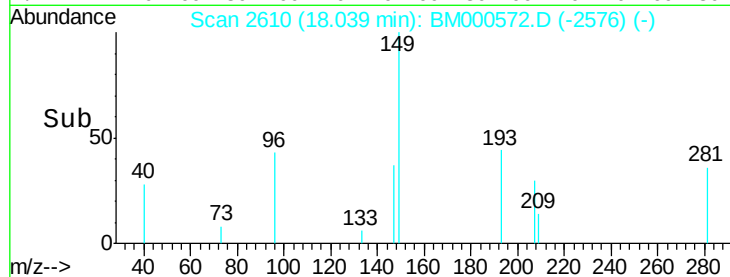
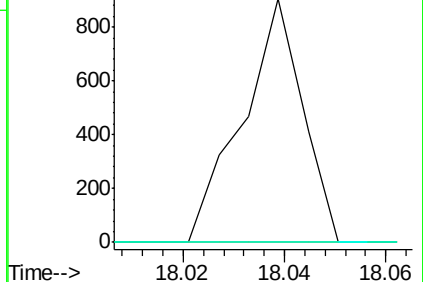
104 0.0 4.6 6.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#77

Pyrene

Concen: 0.03 ng/ul

RT: 19.47 min Scan# 2853

Delta R.T. -0.03 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

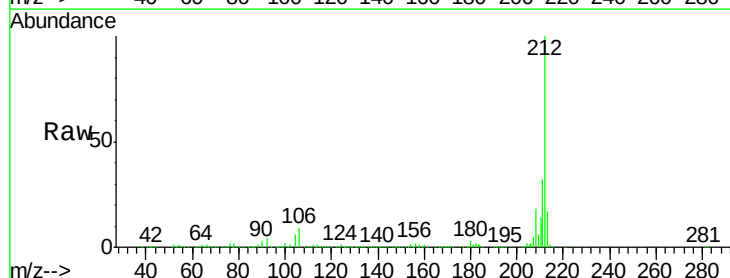
Tgt Ion:202 Resp: 1606

Ion Ratio Lower Upper

202 100

101 145.6 7.2 10.8#

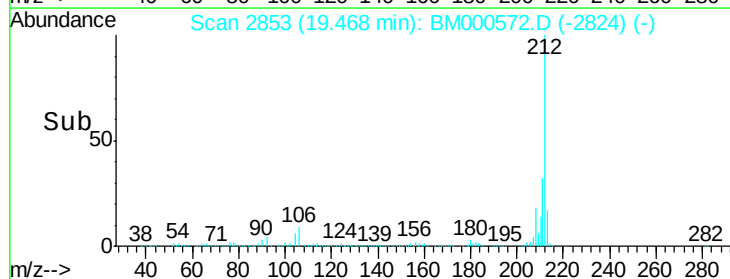
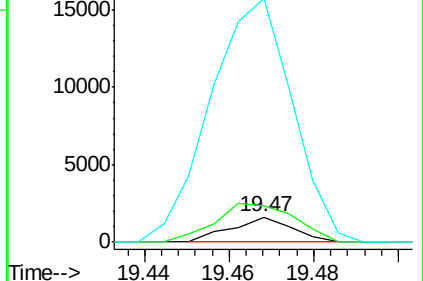
100 964.4 5.9 8.9#

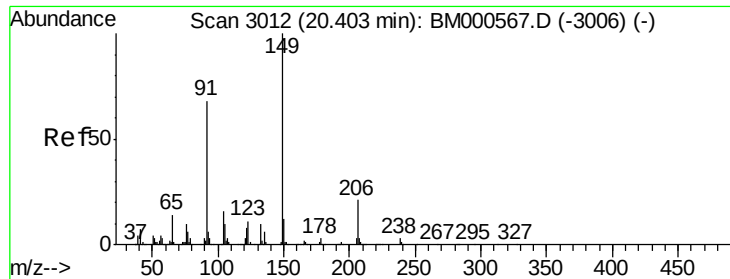


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

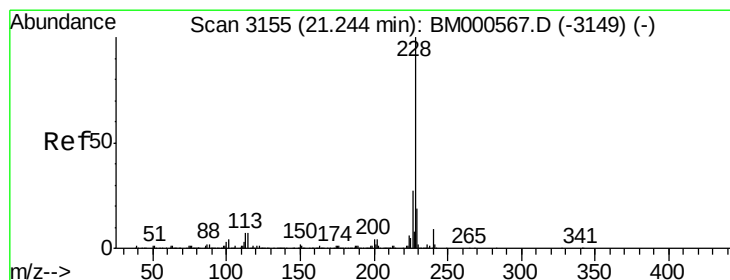
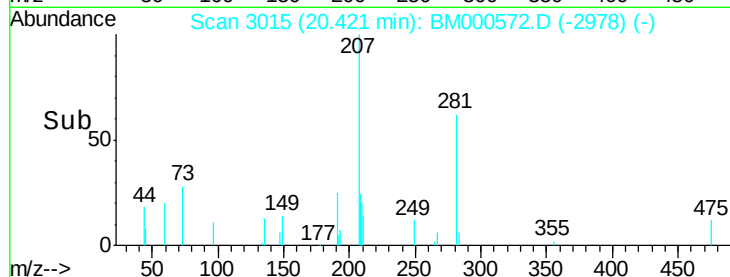
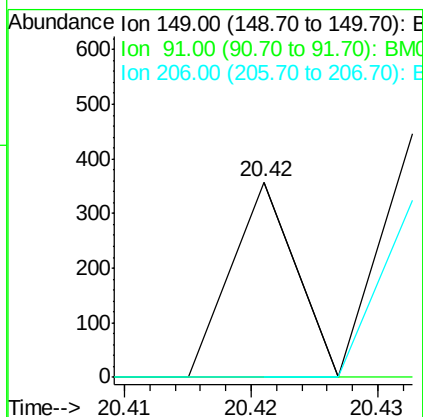
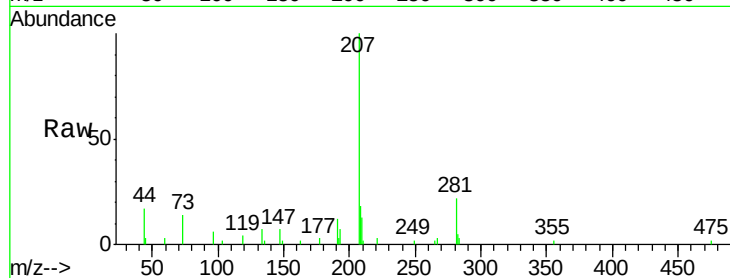




#78
Butylbenzylphthalate
Concen: 0.01 ng/ul
RT: 20.42 min Scan# 3015
Delta R.T. 0.02 min
Lab File: BM000572.D
Acq: 20 Feb 2015 23:14

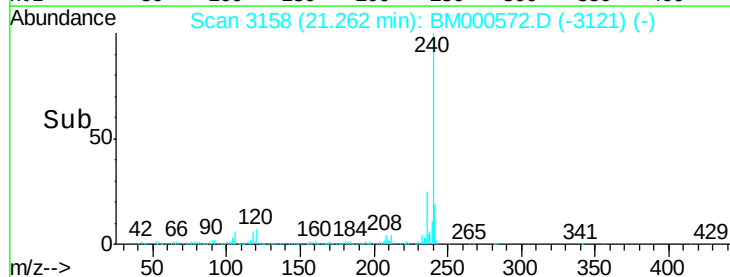
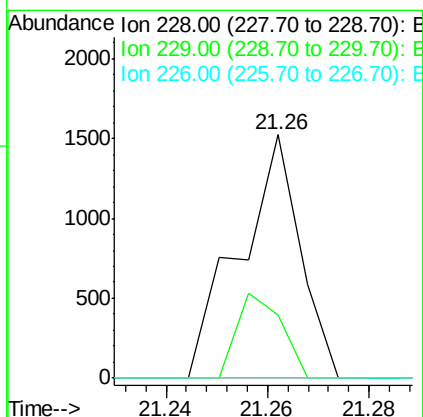
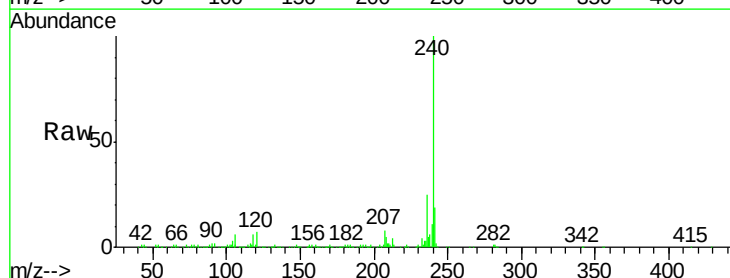
Instrument :
BNA_M
ClientSampleId :
MDL-04-S

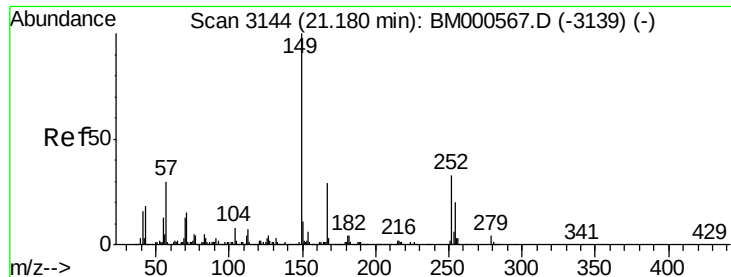
Tgt Ion:149 Resp: 126
Ion Ratio Lower Upper
149 100
91 0.0 53.9 80.9#
206 0.0 17.2 25.8#



#80
Benzo(a)anthracene
Concen: 0.04 ng/ul
RT: 21.26 min Scan# 3158
Delta R.T. 0.02 min
Lab File: BM000572.D
Acq: 20 Feb 2015 23:14

Tgt Ion:228 Resp: 1272
Ion Ratio Lower Upper
228 100
229 26.0 15.1 22.7#
226 0.0 20.4 30.6#

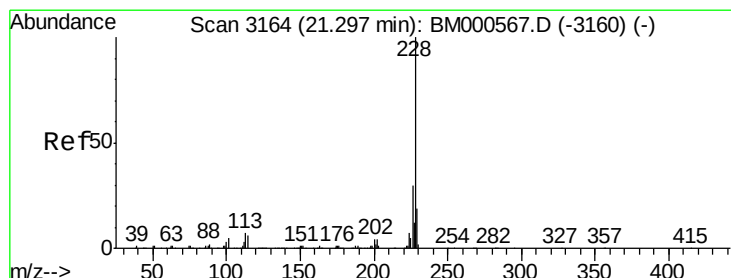
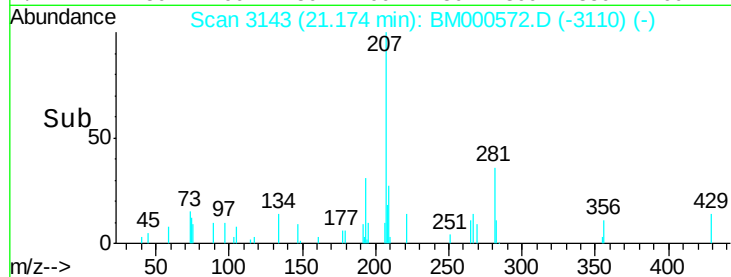
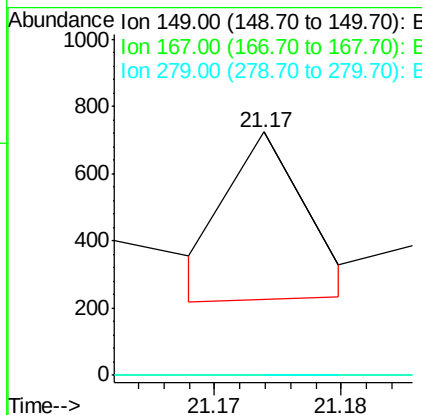
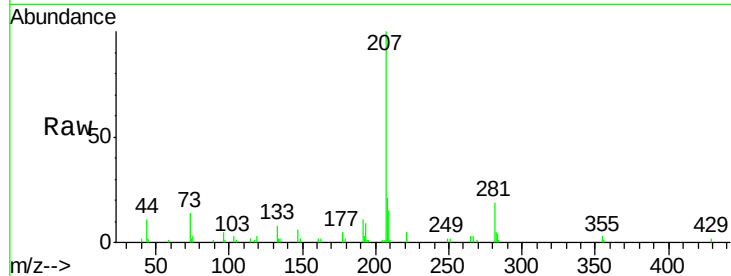




#81
 Bis(2-ethylhexyl)phthalate
 Concen: 0.01 ng/ul
 RT: 21.17 min Scan# 3143
 Delta R.T. -0.01 min
 Lab File: BM000572.D
 Acq: 20 Feb 2015 23:14

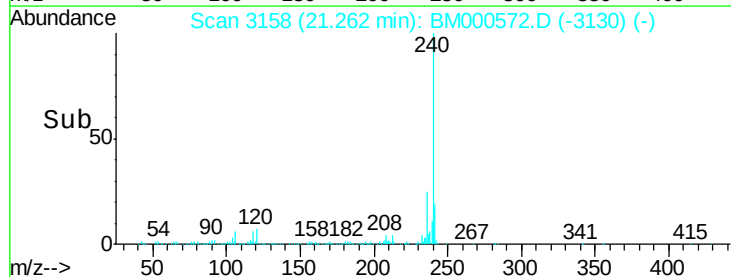
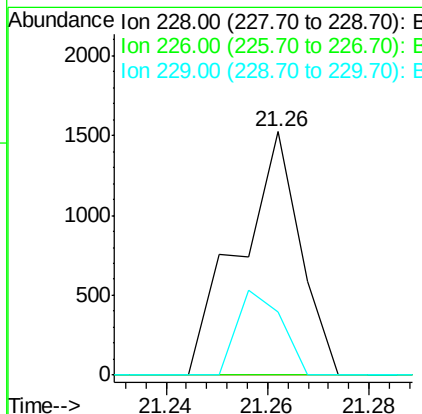
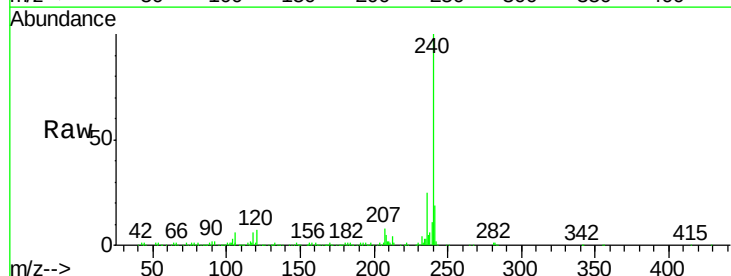
Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

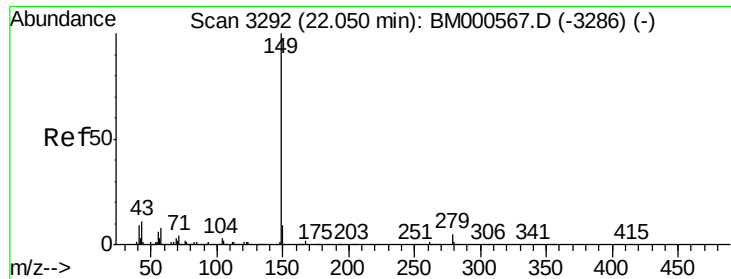
Tgt Ion:149 Resp: 214
 Ion Ratio Lower Upper
 149 100
 167 0.0 23.8 35.6#
 279 0.0 3.4 5.2#



#82
 Chrysene
 Concen: 0.04 ng/ul
 RT: 21.26 min Scan# 3158
 Delta R.T. -0.04 min
 Lab File: BM000572.D
 Acq: 20 Feb 2015 23:14

Tgt Ion:228 Resp: 1272
 Ion Ratio Lower Upper
 228 100
 226 0.0 23.0 34.6#
 229 26.0 15.3 22.9#





#84

Di-n-octyl phthalate

Concen: 0.01 ng/ul

RT: 22.06 min Scan# 3294

Delta R.T. 0.01 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

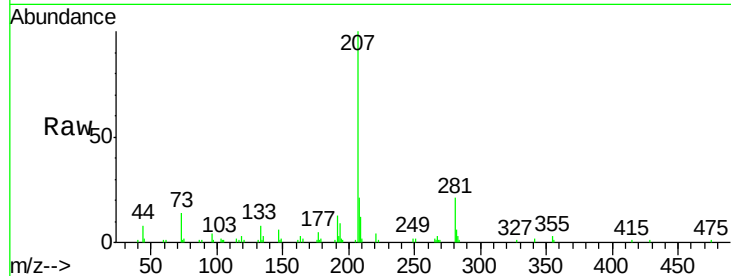
Instrument :

BNA_M

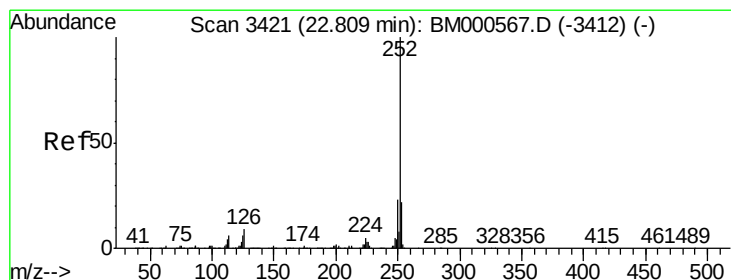
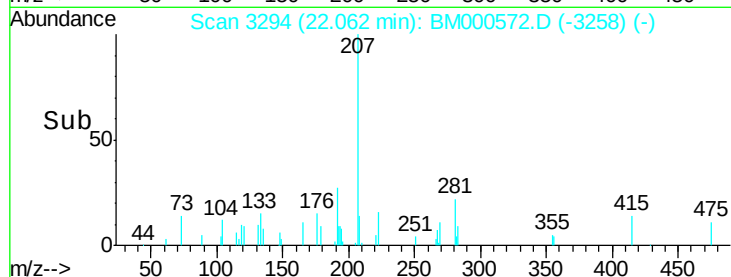
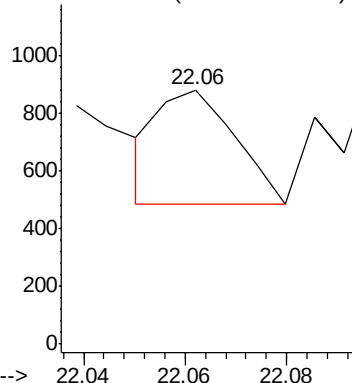
ClientSampleId :

MDL-04-S

Tgt Ion:149 Resp: 413



Abundance Ion 149.00 (148.70 to 149.70): E



#85

Benzo(b)fluoranthene

Concen: 0.00 ng/ul

RT: 22.83 min Scan# 3425

Delta R.T. 0.02 min

Lab File: BM000572.D

Acq: 20 Feb 2015 23:14

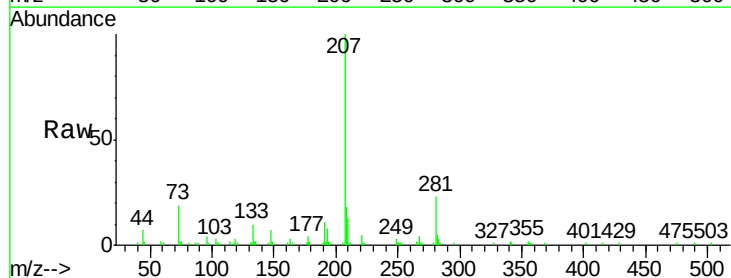
Tgt Ion:252 Resp: 124

Ion Ratio Lower Upper

252 100

253 153.7 17.4 26.0#

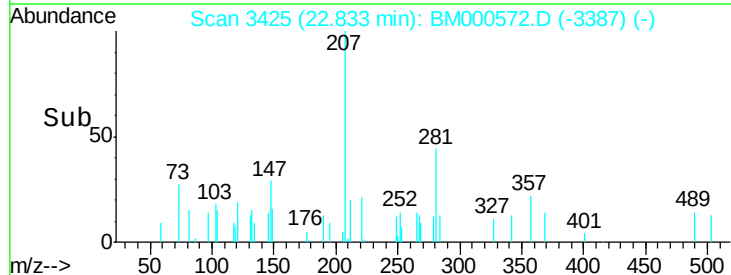
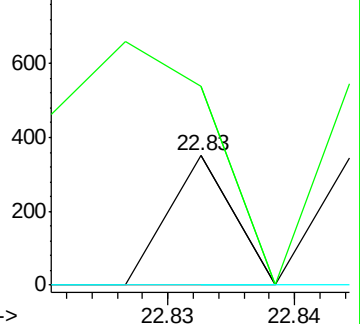
125 0.0 6.2 9.2#

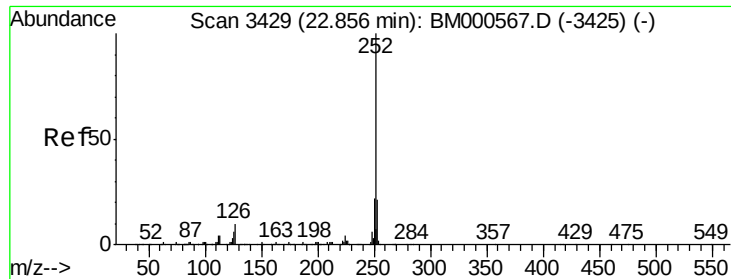


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

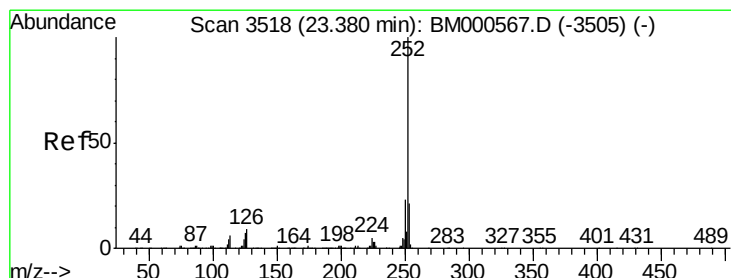
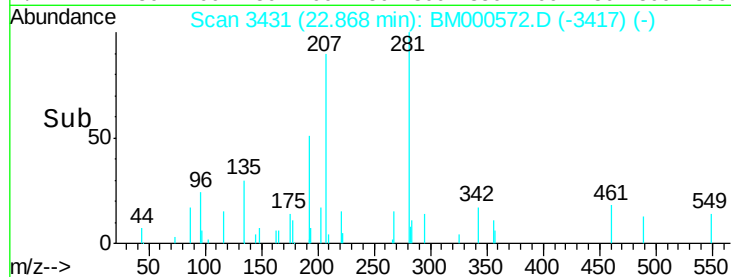
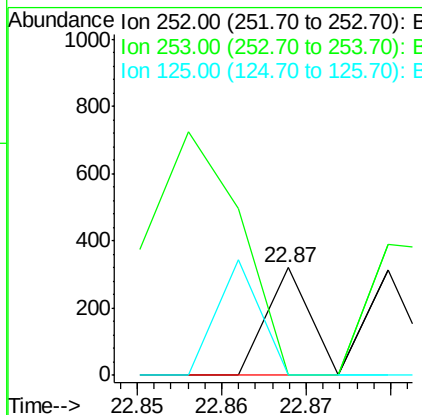
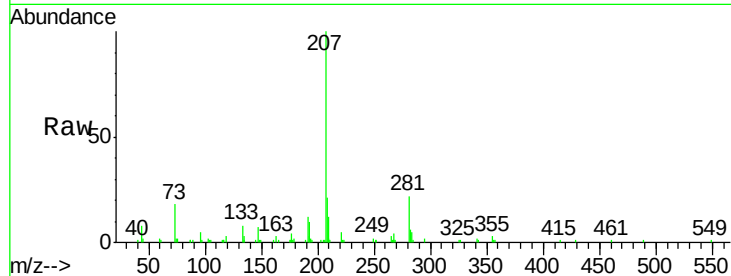




#86
Benzo(k)fluoranthene
Concen: 0.00 ng/ul
RT: 22.87 min Scan# 3431
Delta R.T. 0.01 min
Lab File: BM000572.D
Acq: 20 Feb 2015 23:14

Instrument :
BNA_M
ClientSampleId :
MDL-04-S

Tgt Ion:252 Resp: 113
Ion Ratio Lower Upper
252 100
253 0.0 17.1 25.7#
125 0.0 5.3 7.9#



#88
Benzo(a)pyrene
Concen: 0.00 ng/ul
RT: 23.37 min Scan# 3517
Delta R.T. -0.01 min
Lab File: BM000572.D
Acq: 20 Feb 2015 23:14

Tgt Ion:252 Resp: 122
Ion Ratio Lower Upper
252 100
253 139.6 17.5 26.3#
125 0.0 5.4 8.0#

