

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM040616\
 Data File : BM004905.D
 Acq On : 06 Apr 2016 15:13
 Operator : UM/SJ
 Sample : H1940-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9SE8

Quant Time: Apr 08 06:49:03 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM040116.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Apr 07 04:29:45 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	39594	20.00	ng/ul	0.00
18) Naphthalene-d8	10.61	136	184090	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.46	164	115320	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.20	188	285291	20.00	ng/ul	0.00
78) Chrysene-d12	21.39	240	364343	20.00	ng/ul	0.00
86) Perylene-d12	23.68	264	370180	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.31	96	2544	2.60	ng/uL	0.00
5) Phenol-d5	6.98	99	68509	19.47	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.15	67	41665	21.85	ng/ul	0.00
9) 2-Chlorophenol-d4	7.35	132	55286	20.70	ng/ul	0.00
13) 4-Methylphenol-d8	8.52	113	58990	19.96	ng/ul	0.00
19) Nitrobenzene-d5	8.97	128	27070	20.72	ng/ul	0.00
22) 2-Nitrophenol-d4	9.70	143	29069	20.02	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.23	165	58195	21.49	ng/ul	0.00
29) 4-Chloroaniline-d4	10.75	131	37071	11.47	ng/ul	0.00
44) Dimethylphthalate-d6	13.86	166	229401	25.21	ng/ul	0.00
47) Acenaphthylene-d8	14.15	160	297088	27.30	ng/ul	0.00
52) 4-Nitrophenol-d4	14.65	143	41950	23.32	ng/ul	0.00
58) Fluorene-d10	15.45	176	240345	30.56	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.57	200	26664	15.60	ng/ul	0.00
71) Anthracene-d10	17.30	188	419421	32.86	ng/ul	0.00
79) Pyrene-d10	19.60	212	506996	32.05	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.54	264	553160	33.73	ng/ul	0.00

Target Compounds

					Qvalue
4) Benzaldehyde	6.96	77	60738	37.03 ng/ul	98
10) 2-Chlorophenol	7.39	128	6903	2.45 ng/ul	96
23) 2-Nitrophenol	9.73	139	44142	27.87 ng/ul	97
28) Naphthalene	10.66	128	54984	5.91 ng/ul	99
31) Hexachlorobutadiene	10.95	225	23016	13.53 ng/ul	98
33) 4-Chloro-3-methylphenol	11.89	107	25721	8.02 ng/ul	95
37) 1,2,4,5-Tetrachlorobenzene	12.64	216	20643	5.78 ng/ul	98
39) 2,4,6-Trichlorophenol	12.88	196	29173	12.38 ng/ul	96
41) 1,1'-Biphenyl	13.29	154	182051	19.44 ng/ul	100
45) Dimethylphthalate	13.91	163	258685	27.91 ng/ul	100
46) 2,6-Dinitrotoluene	14.03	165	24154	13.40 ng/ul	90
53) 4-Nitrophenol	14.67	109	50971	34.58 ng/ul	95
54) Dibenzofuran	14.86	168	100915	8.96 ng/ul	95
64) 4,6-Dinitro-2-methylphenol	15.58	198	23134	12.62 ng/ul	94
67) Hexachlorobenzene	16.50	284	25407	7.84 ng/ul	94
69) Pentachlorophenol	16.85	266	34516	17.14 ng/ul	98
70) Phenanthrene	17.24	178	386347	24.56 ng/ul	99
72) Anthracene	17.33	178	162251	10.29 ng/ul	99
76) Di-n-butylphthalate	18.16	149	257120	15.38 ng/ul	100
77) Fluoranthene	19.26	202	403003	23.06 ng/ul	100
80) Pyrene	19.63	202	423563	20.31 ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.30	149	270022	21.37 ng/ul#	97
85) Chrysene	21.42	228	355549	17.94 ng/ul	100

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Response via : Initial Calibration

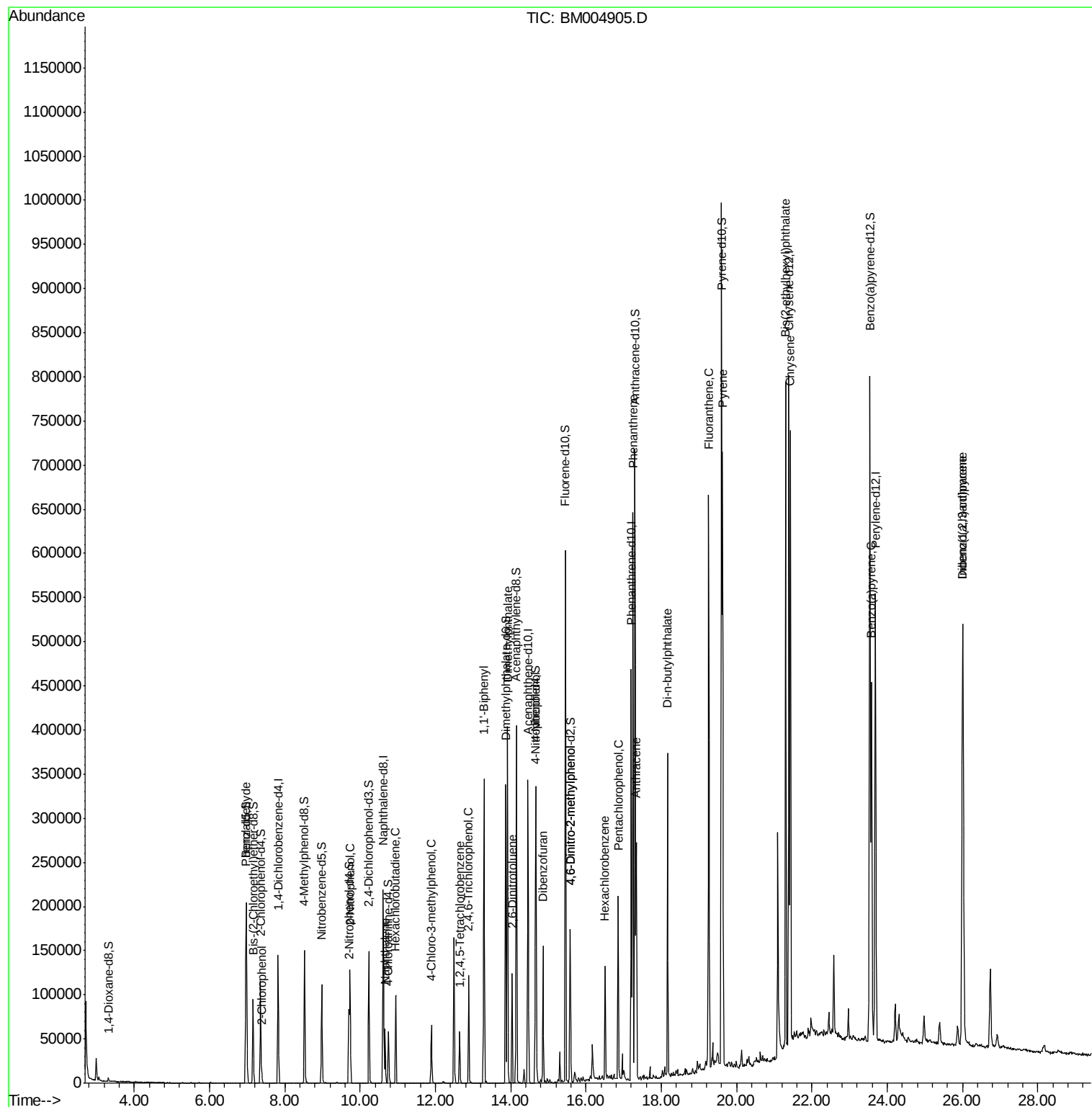
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	23.58	252	302343	14.70	ng/ul	100
92) Indeno(1,2,3-cd)pyrene	26.00	276	416806	16.99	ng/ul	95
93) Dibenzo(a,h)anthracene	26.01	278	221852	10.88	ng/ul	99

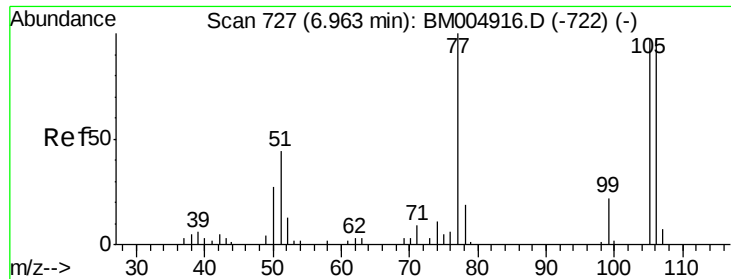
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 37.03 ng/ul

RT: 6.96 min Scan# 727

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

Instrument :

BNA_M

ClientSampleId :

D9SE8

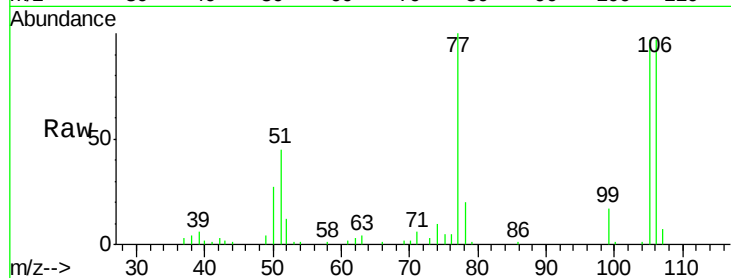
Tgt Ion: 77 Resp: 60738

Ion Ratio Lower Upper

77 100

105 97.0 80.6 120.8

106 96.8 77.7 116.5



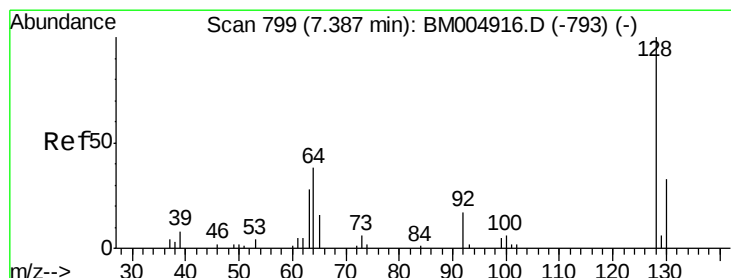
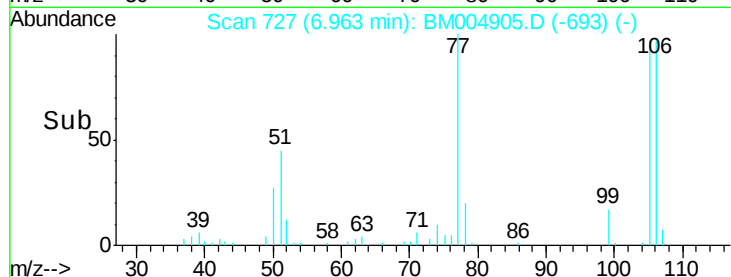
Abundance Ion 77.00 (76.70 to 77.70): BM004916.D (-722) (-)

Ion 105.00 (104.70 to 105.70): BM004916.D (-722) (-)

Ion 106.00 (105.70 to 106.70): BM004916.D (-722) (-)

6.96

Time-->



#10

2-Chlorophenol

Concen: 2.45 ng/ul

RT: 7.39 min Scan# 799

Delta R.T. 0.01 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

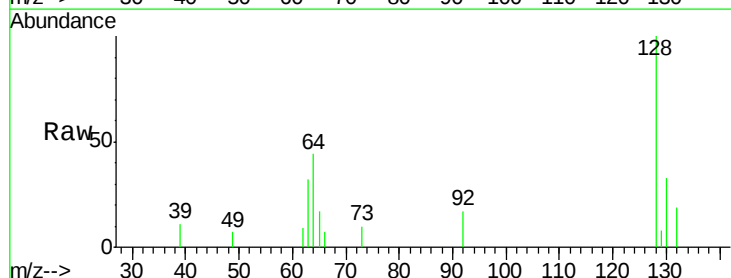
Tgt Ion: 128 Resp: 6903

Ion Ratio Lower Upper

128 100

64 43.7 31.9 47.9

130 33.2 25.6 38.4



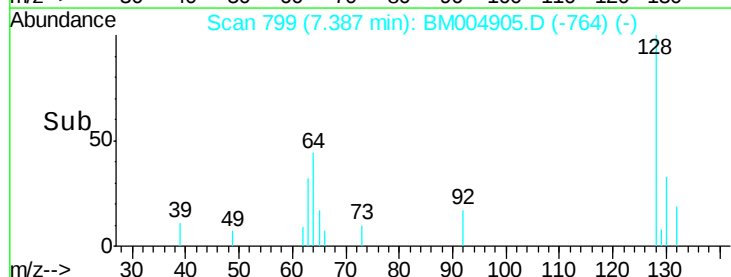
Abundance Ion 128.00 (127.70 to 128.70): BM004916.D (-793) (-)

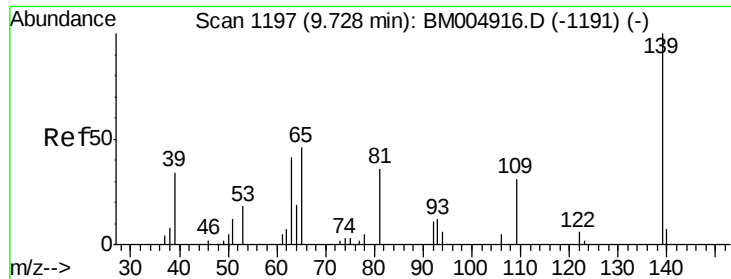
Ion 64.00 (63.70 to 64.70): BM004916.D (-793) (-)

Ion 130.00 (129.70 to 130.70): BM004916.D (-793) (-)

7.39

Time-->





#23

2-Nitrophenol

Concen: 27.87 ng/ul

RT: 9.73 min Scan# 1197

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

Instrument :

BNA_M

ClientSampleId :

D9SE8

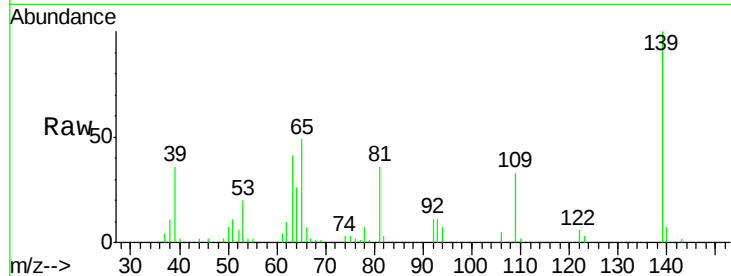
Tgt Ion:139 Resp: 44142

Ion Ratio Lower Upper

139 100

65 49.2 36.3 54.5

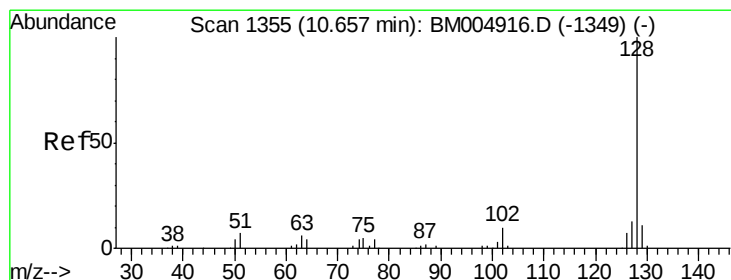
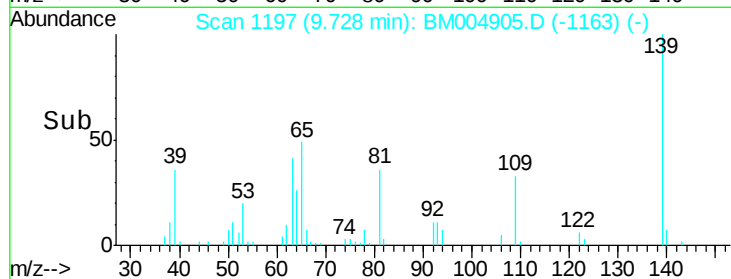
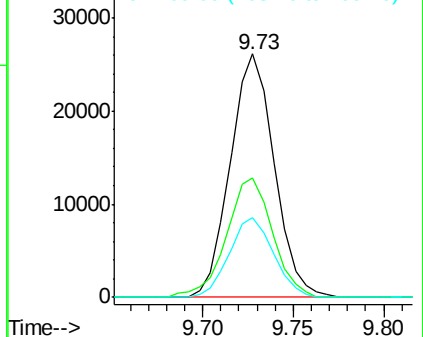
109 32.9 26.4 39.6



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BM0

Ion 109.00 (108.70 to 109.70): E



#28

Naphthalene

Concen: 5.91 ng/ul

RT: 10.66 min Scan# 1355

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

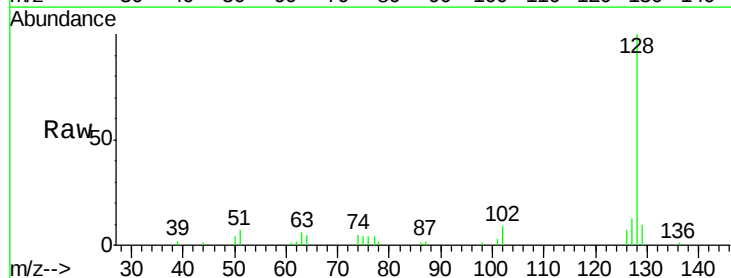
Tgt Ion:128 Resp: 54984

Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

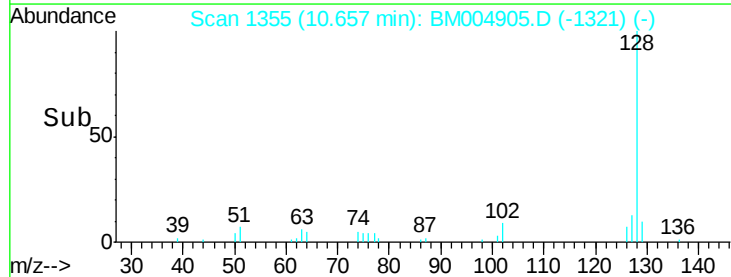
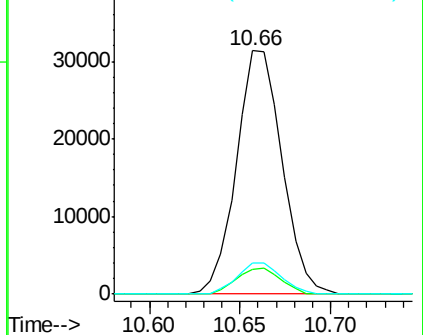
127 12.6 10.5 15.7

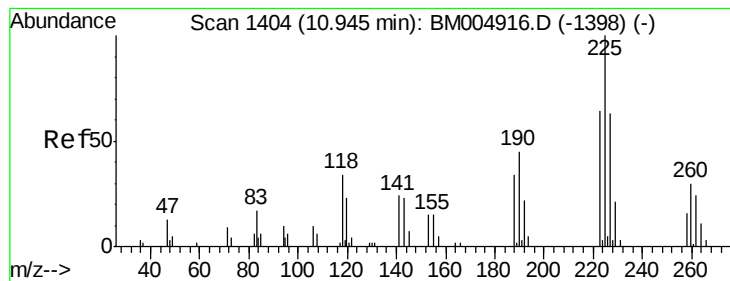


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#31

Hexachlorobutadiene

Concen: 13.53 ng/ul

RT: 10.95 min Scan# 1404

Delta R.T. 0.01 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

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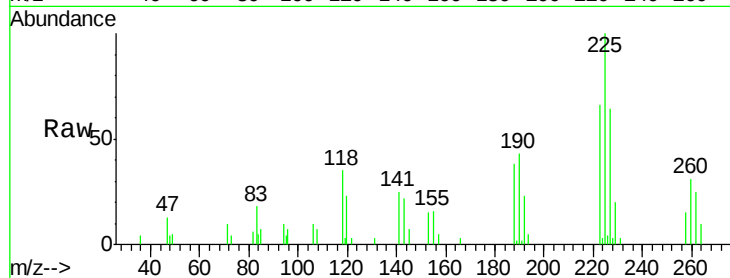
Tgt Ion:225 Resp: 23016

Ion Ratio Lower Upper

225 100

223 66.4 51.4 77.2

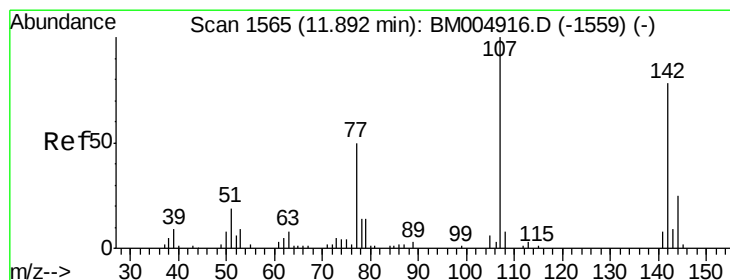
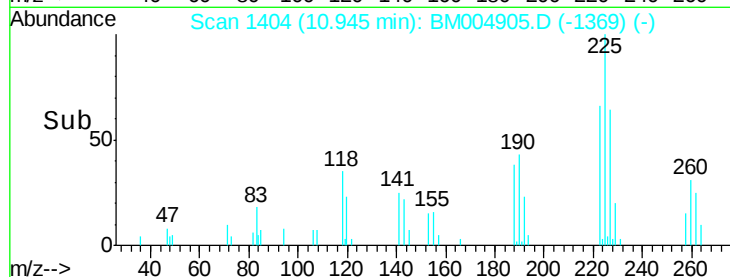
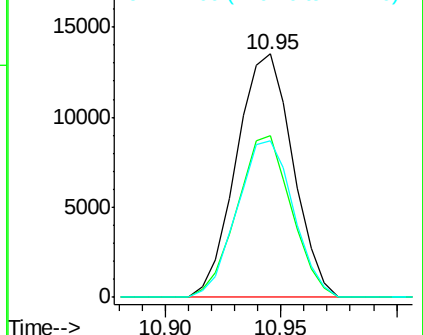
227 64.3 50.7 76.1



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#33

4-Chloro-3-methylphenol

Concen: 8.02 ng/ul

RT: 11.89 min Scan# 1565

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

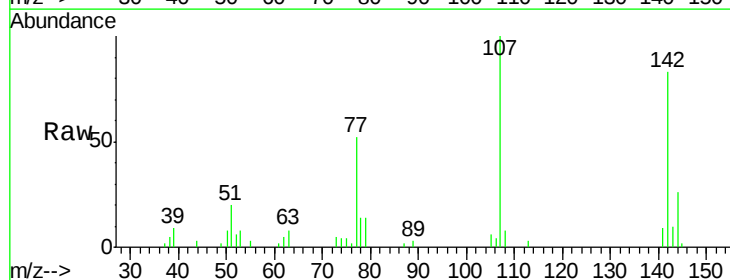
Tgt Ion:107 Resp: 25721

Ion Ratio Lower Upper

107 100

144 26.0 20.4 30.6

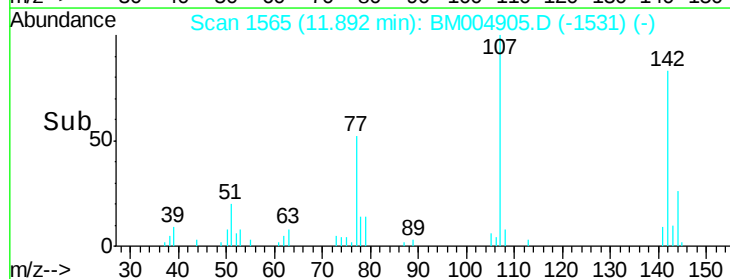
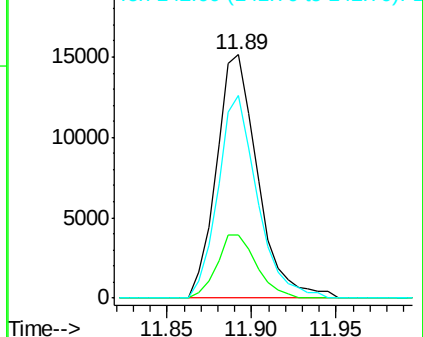
142 83.3 62.5 93.7

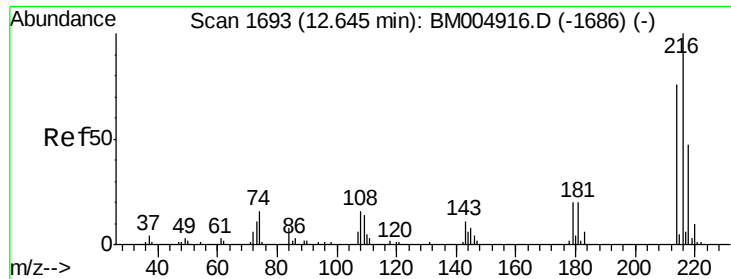


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

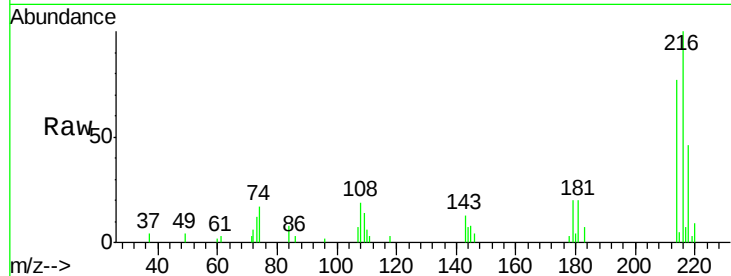




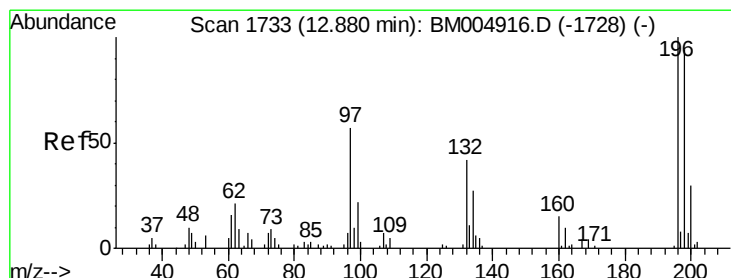
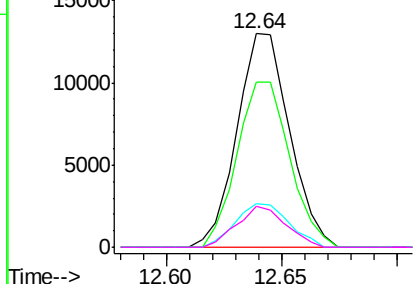
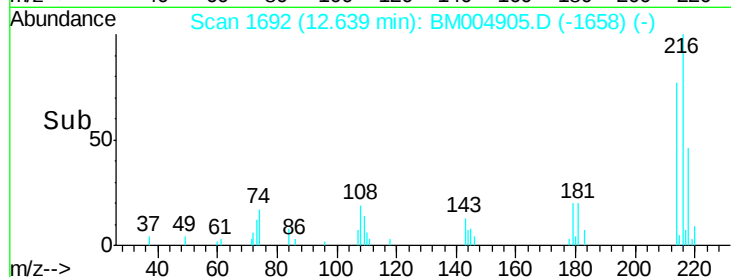
#37
 1,2,4,5-Tetrachlorobenzene
 Concen: 5.78 ng/ul
 RT: 12.64 min Scan# 1692
 Delta R.T. -0.00 min
 Lab File: BM004905.D
 Acq: 06 Apr 2016 15:13

Instrument :
 BNA_M
 ClientSampleId :
 D9SE8

Tgt Ion:	216	Resp:	20643
Ion	Ratio	Lower	Upper
216	100		
214	77.3	62.5	93.7
179	20.4	18.2	27.2
108	18.9	14.2	21.2

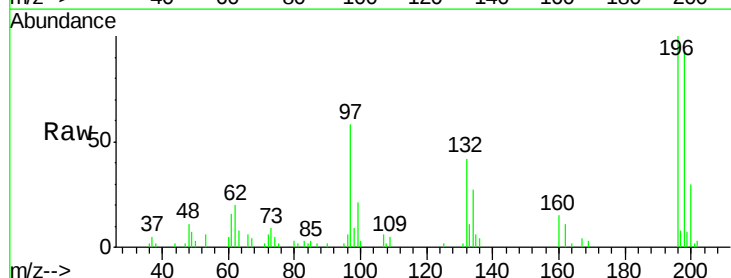


Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 108.00 (107.70 to 108.70): E

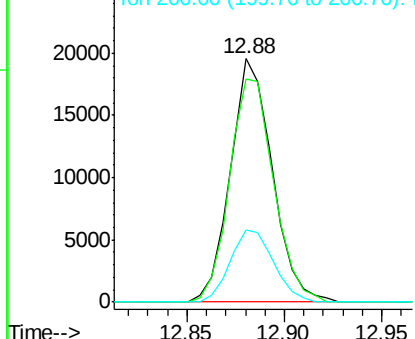
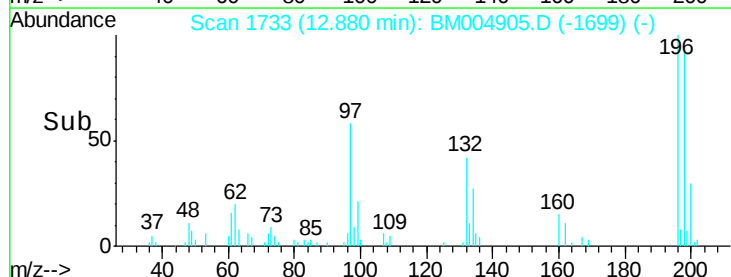


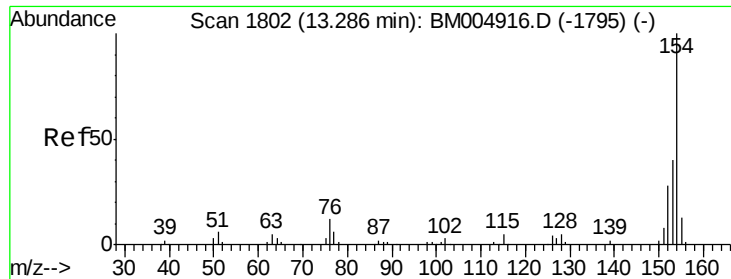
#39
 2,4,6-Trichlorophenol
 Concen: 12.38 ng/ul
 RT: 12.88 min Scan# 1733
 Delta R.T. -0.00 min
 Lab File: BM004905.D
 Acq: 06 Apr 2016 15:13

Tgt Ion:	196	Resp:	29173
Ion	Ratio	Lower	Upper
196	100		
198	91.7	76.6	114.8
200	29.8	24.7	37.1



Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

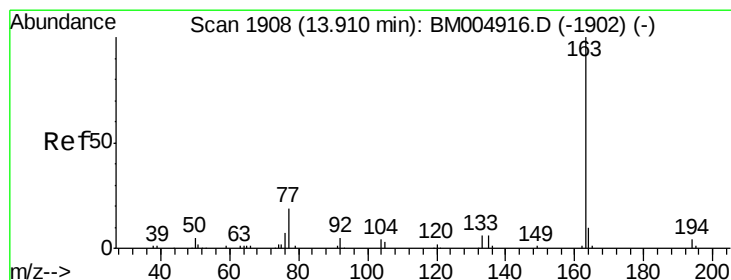
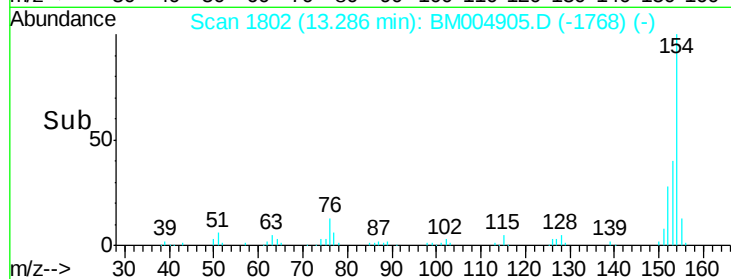
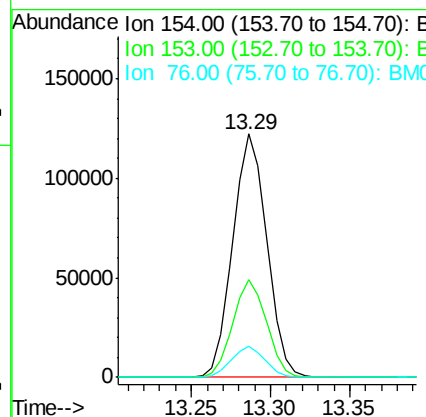
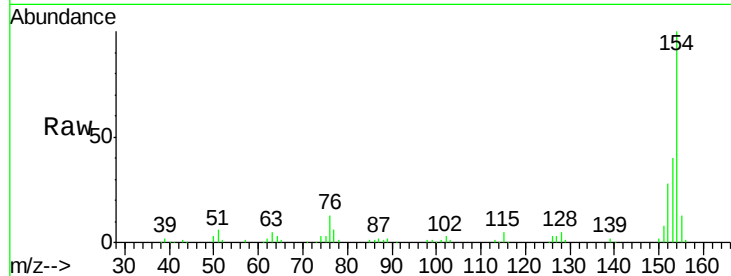




#41
1,1'-Biphenyl
Concen: 19.44 ng/ul
RT: 13.29 min Scan# 1802
Delta R.T. -0.00 min
Lab File: BM004905.D
Acq: 06 Apr 2016 15:13

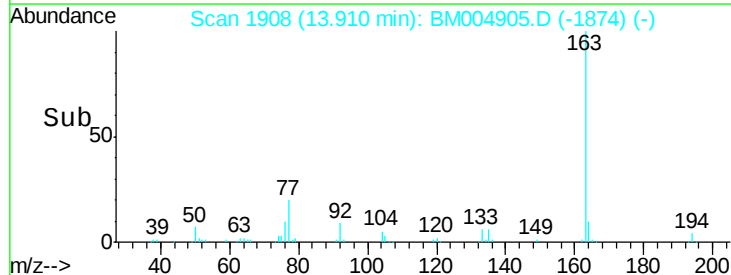
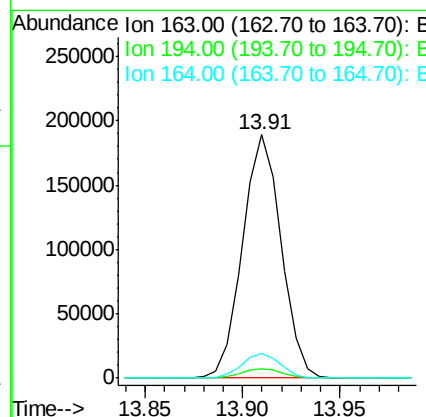
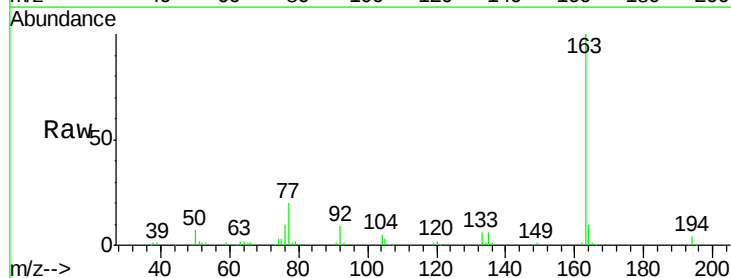
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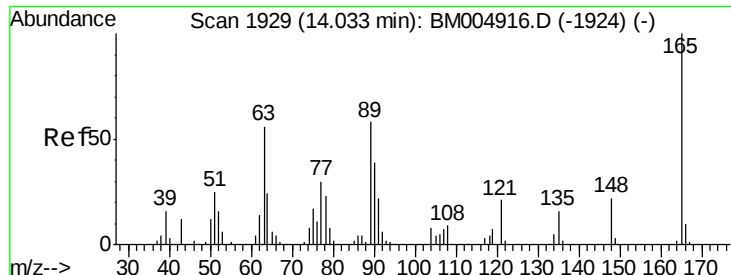
Tgt Ion:154 Resp: 182051
Ion Ratio Lower Upper
154 100
153 40.2 32.1 48.1
76 12.5 9.5 14.3



#45
Dimethylphthalate
Concen: 27.91 ng/ul
RT: 13.91 min Scan# 1908
Delta R.T. -0.00 min
Lab File: BM004905.D
Acq: 06 Apr 2016 15:13

Tgt Ion:163 Resp: 258685
Ion Ratio Lower Upper
163 100
194 4.0 3.2 4.8
164 10.0 7.8 11.8

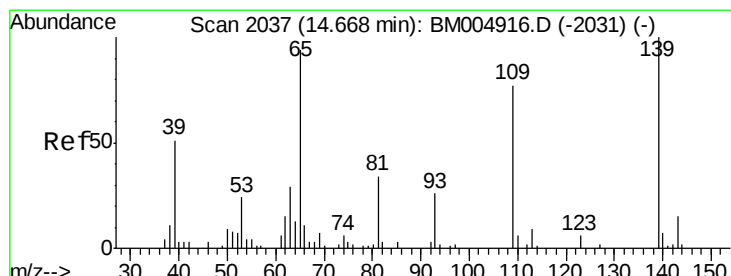
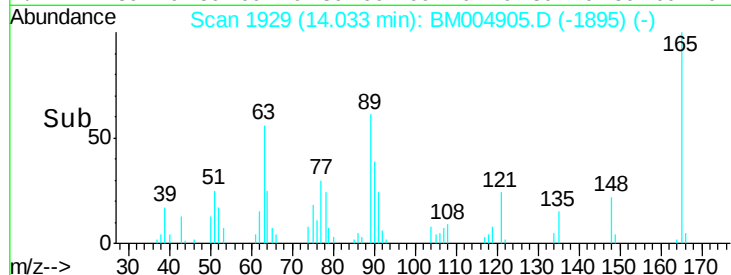
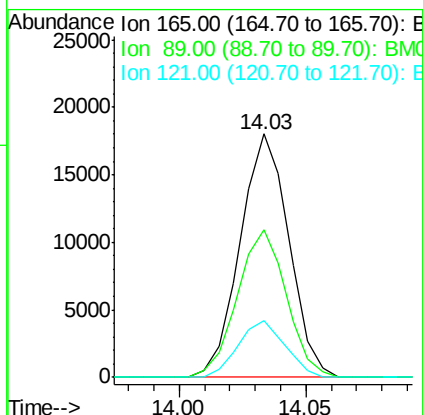
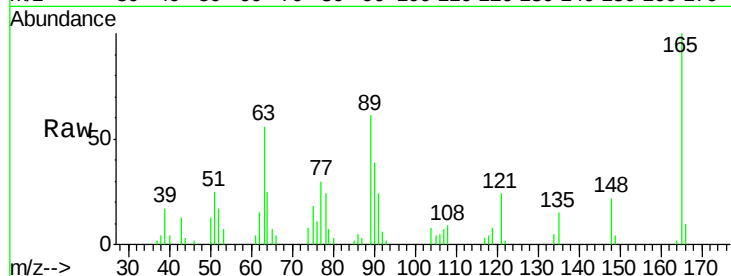




#46
 2,6-Dinitrotoluene
 Concen: 13.40 ng/ul
 RT: 14.03 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: BM004905.D
 Acq: 06 Apr 2016 15:13

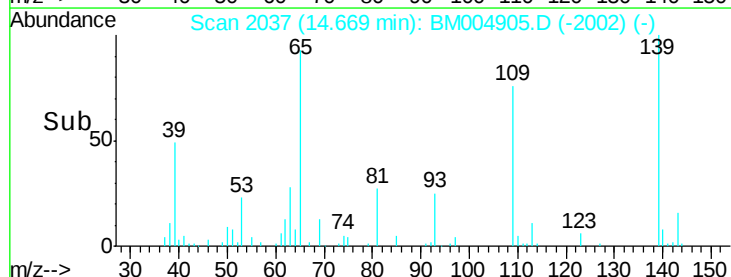
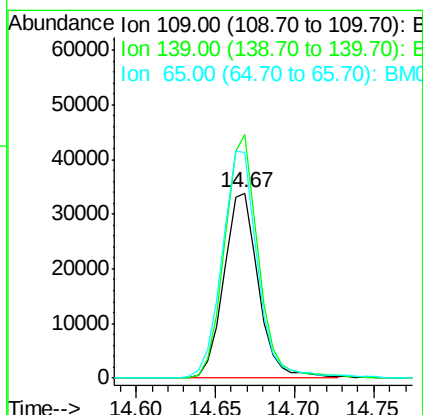
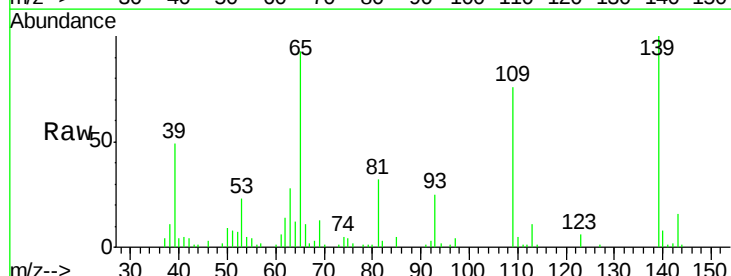
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 BNA_M
 ClientSampled :
 D9SE8

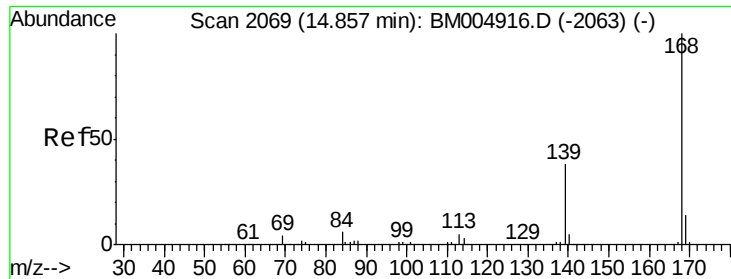
Tgt Ion:165 Resp: 24154
 Ion Ratio Lower Upper
 165 100
 89 60.8 42.4 63.6
 121 23.5 16.6 24.8



#53
 4-Nitrophenol
 Concen: 34.58 ng/ul
 RT: 14.67 min Scan# 2037
 Delta R.T. 0.01 min
 Lab File: BM004905.D
 Acq: 06 Apr 2016 15:13

Tgt Ion:109 Resp: 50971
 Ion Ratio Lower Upper
 109 100
 139 131.7 103.7 155.5
 65 122.1 89.4 134.2





#54

Dibenzo-furan

Concen: 8.96 ng/ul

RT: 14.86 min Scan# 2069

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

Instrument :

BNA_M

ClientSampleId :

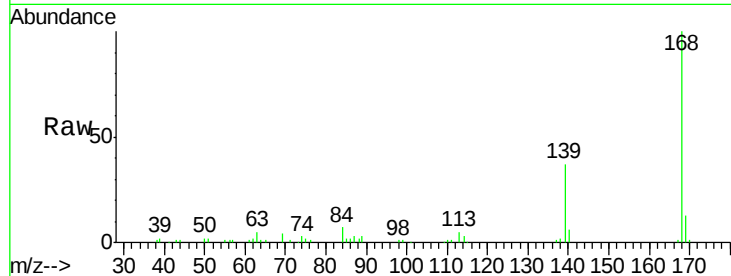
D9SE8

Tgt Ion:168 Resp: 100915

Ion Ratio Lower Upper

168 100

139 36.9 32.2 48.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.86

80000

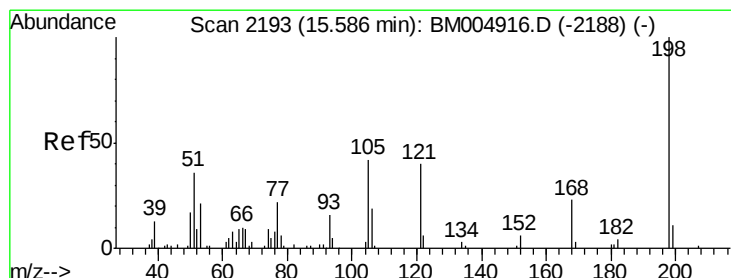
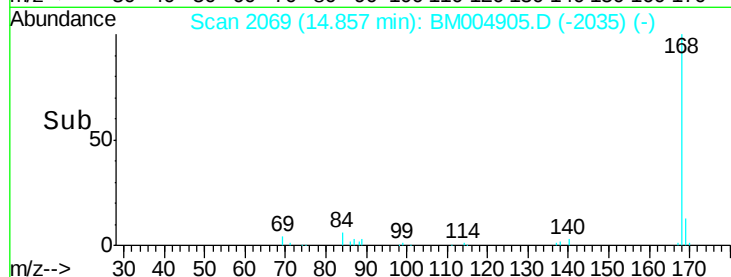
60000

40000

20000

0

Time--> 14.80 14.85 14.90



#64

4,6-Dinitro-2-methylphenol

Concen: 12.62 ng/ul

RT: 15.58 min Scan# 2192

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

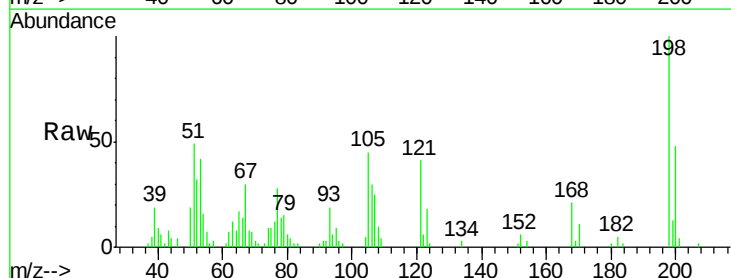
Tgt Ion:198 Resp: 23134

Ion Ratio Lower Upper

198 100

182 4.7 3.1 4.7

77 28.4 20.1 30.1



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): BM

15.58

20000

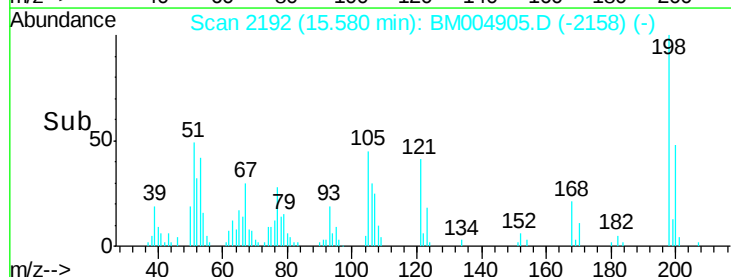
15000

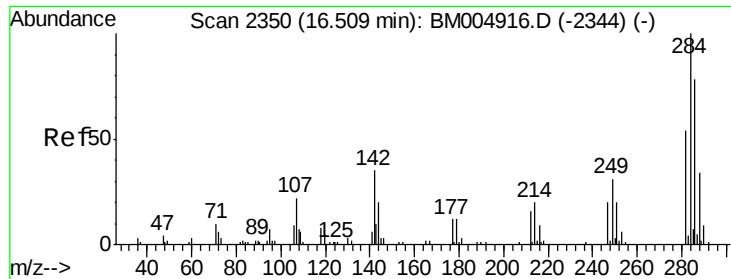
10000

5000

0

Time--> 15.55 15.60

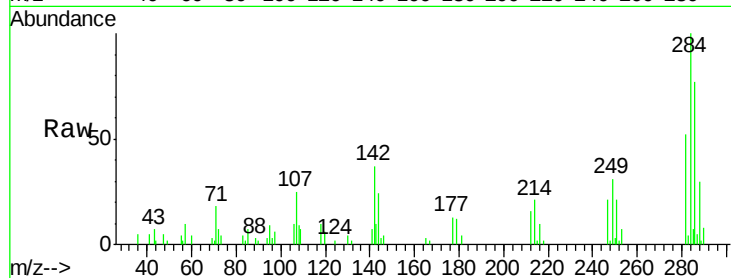




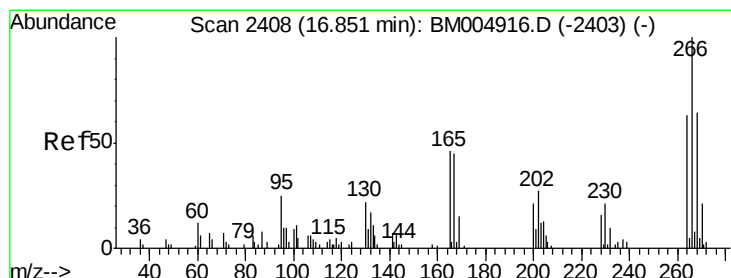
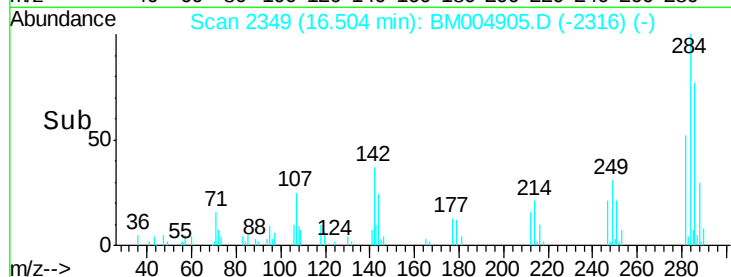
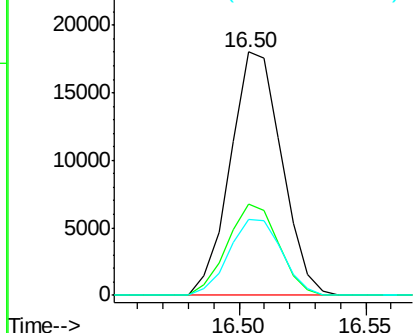
#67
Hexachlorobenzene
Concen: 7.84 ng/ul
RT: 16.50 min Scan# 2349
Delta R.T. -0.01 min
Lab File: BM004905.D
Acq: 06 Apr 2016 15:13

Instrument :
BNA_M
ClientSampled :
D9SE8

Tgt Ion: 284 Resp: 25407
Ion Ratio Lower Upper
284 100
142 37.3 33.1 49.7
249 31.0 27.1 40.7

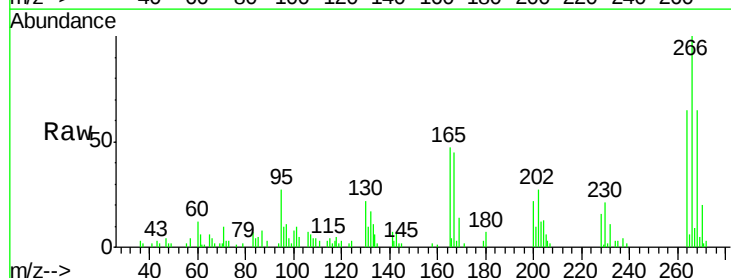


Abundance Ion 284.00 (283.70 to 284.70): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

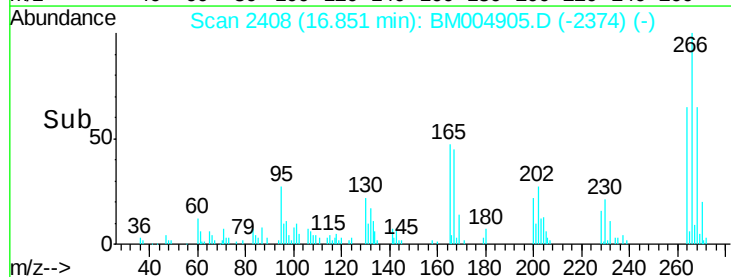
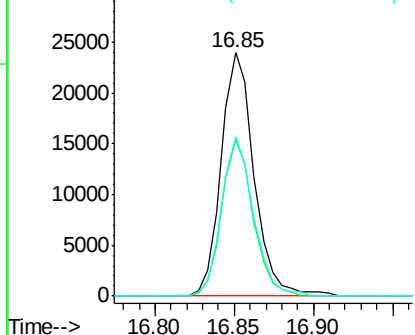


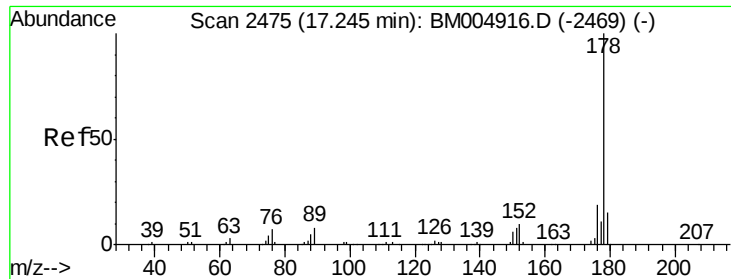
#69
Pentachlorophenol
Concen: 17.14 ng/ul
RT: 16.85 min Scan# 2408
Delta R.T. -0.00 min
Lab File: BM004905.D
Acq: 06 Apr 2016 15:13

Tgt Ion: 266 Resp: 34516
Ion Ratio Lower Upper
266 100
264 64.5 50.5 75.7
268 65.1 50.9 76.3



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





#70

Phenanthrene

Concen: 24.56 ng/ul

RT: 17.24 min Scan# 2475

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

Instrument :

BNA_M

ClientSampleId :

D9SE8

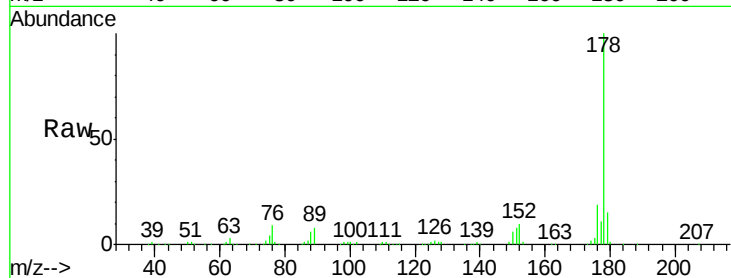
Tgt Ion:178 Resp: 386347

Ion Ratio Lower Upper

178 100

179 15.0 12.2 18.4

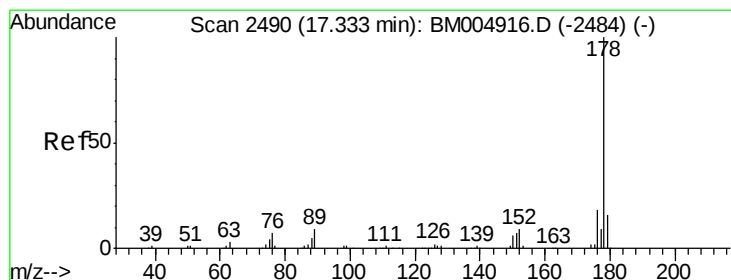
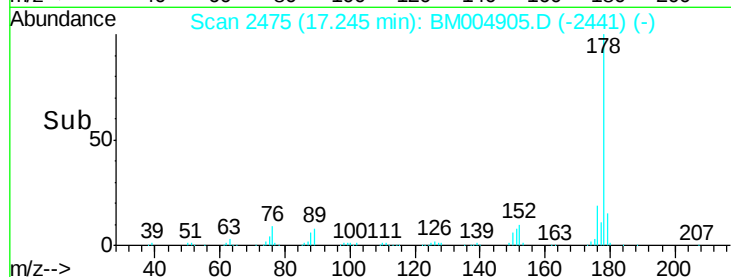
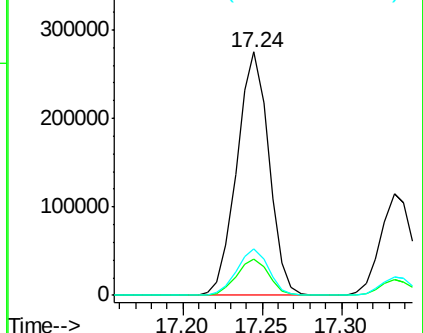
176 18.9 15.6 23.4



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: 10.29 ng/ul

RT: 17.33 min Scan# 2490

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

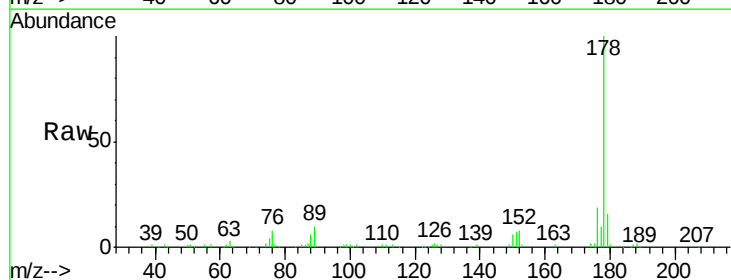
Tgt Ion:178 Resp: 162251

Ion Ratio Lower Upper

178 100

179 15.5 12.1 18.1

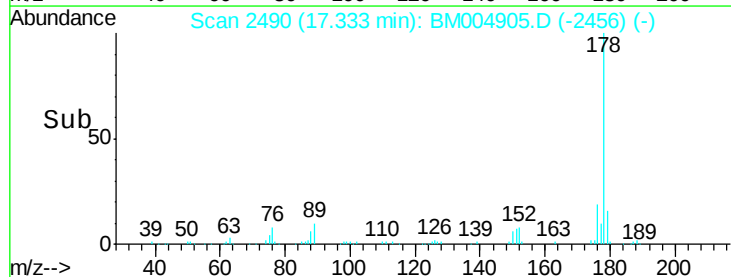
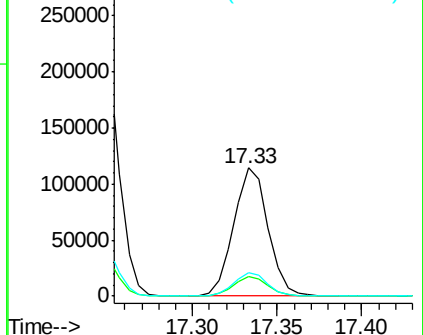
176 18.7 14.8 22.2

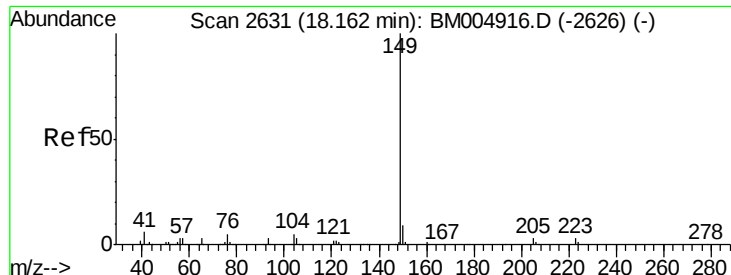


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

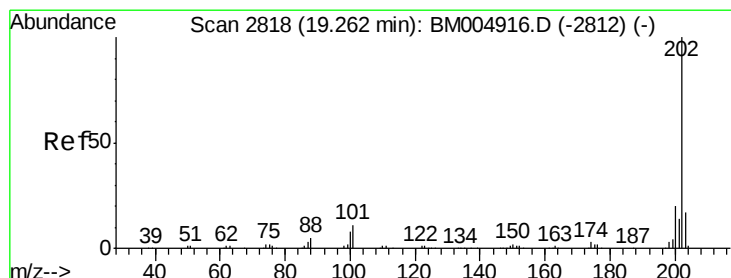
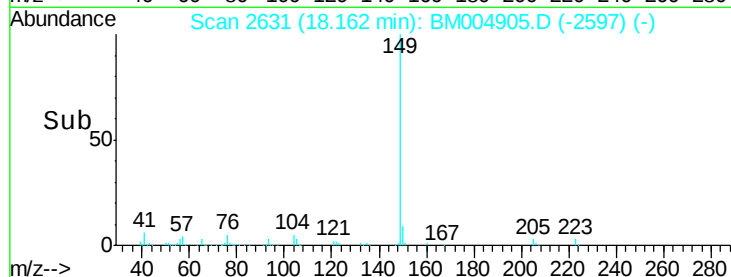
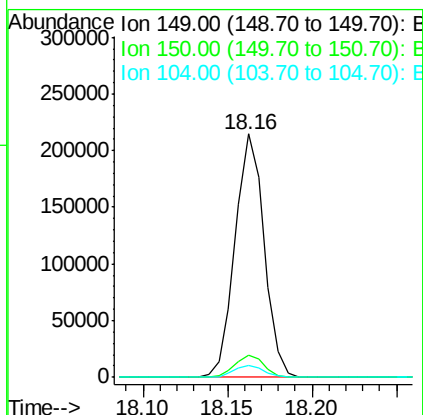
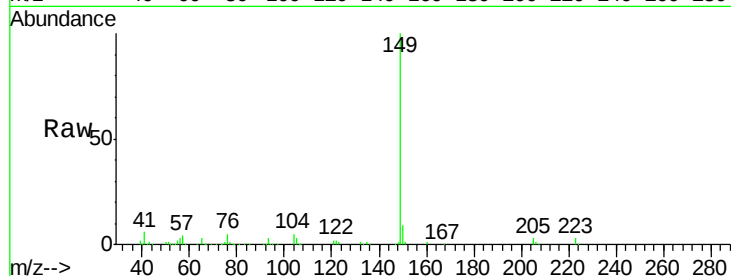




#76
Di-n-butylphthalate
Concen: 15.38 ng/ul
RT: 18.16 min Scan# 2631
Delta R.T. -0.00 min
Lab File: BM004905.D
Acq: 06 Apr 2016 15:13

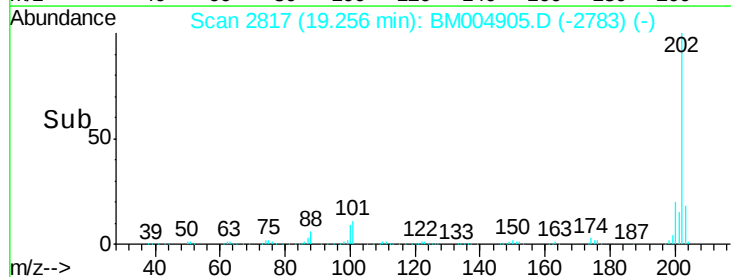
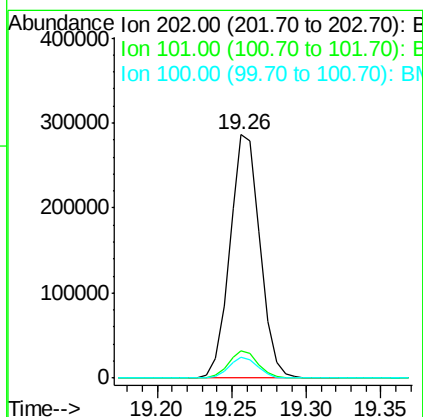
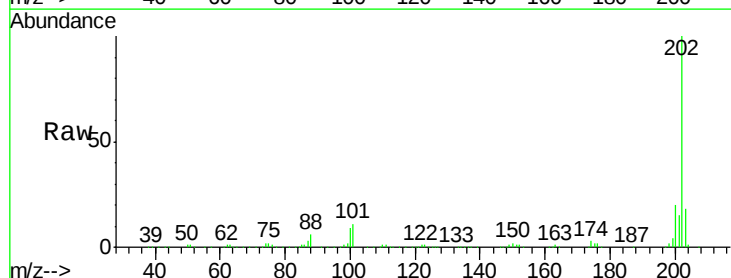
Instrument :
BNA_M
ClientSampleId :
D9SE8

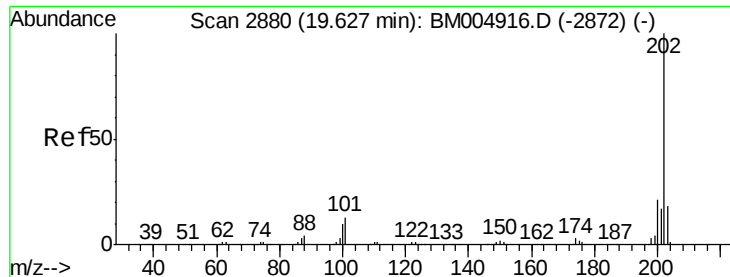
Tgt Ion:149 Resp: 257120
Ion Ratio Lower Upper
149 100
150 9.4 7.4 11.0
104 5.2 4.0 6.0



#77
Fluoranthene
Concen: 23.06 ng/ul
RT: 19.26 min Scan# 2817
Delta R.T. -0.00 min
Lab File: BM004905.D
Acq: 06 Apr 2016 15:13

Tgt Ion:202 Resp: 403003
Ion Ratio Lower Upper
202 100
101 11.1 8.8 13.2
100 8.5 6.6 9.8





#80

Pyrene

Concen: 20.31 ng/ul

RT: 19.63 min Scan# 2880

Delta R.T. 0.01 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

Instrument :

BNA_M

ClientSampleId :

D9SE8

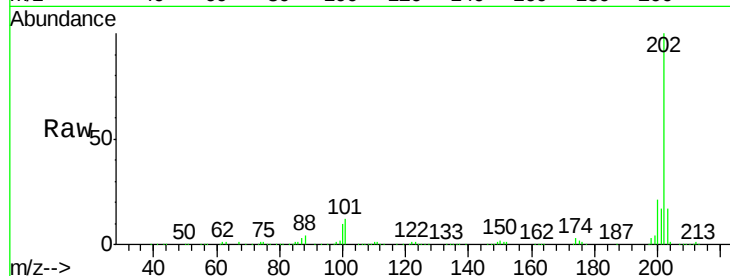
Tgt Ion:202 Resp: 423563

Ion Ratio Lower Upper

202 100

101 12.1 10.2 15.2

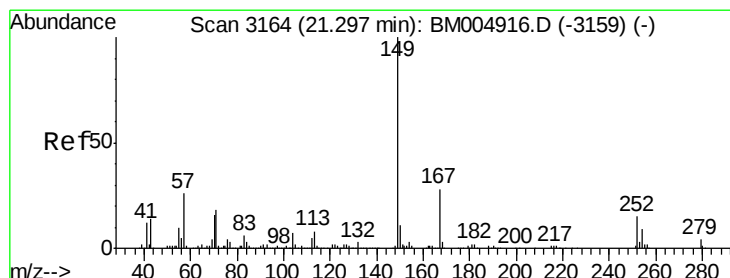
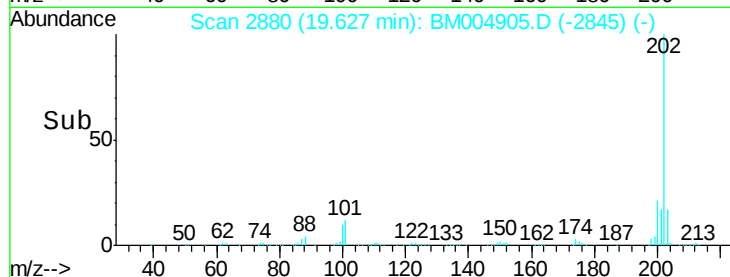
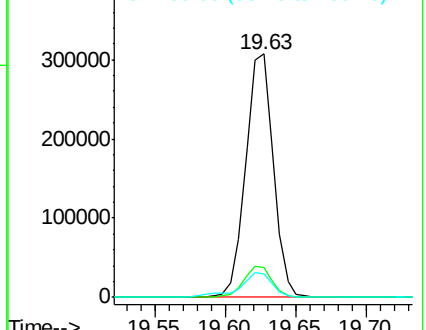
100 9.8 8.5 12.7



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 21.37 ng/ul

RT: 21.30 min Scan# 3164

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

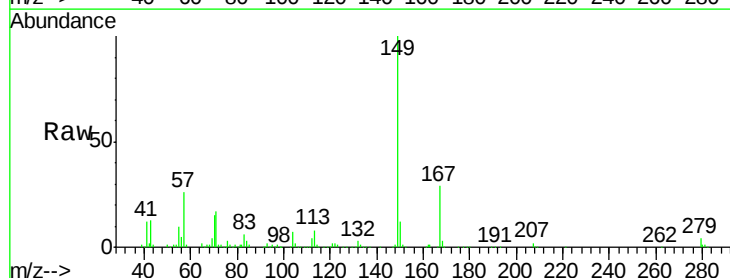
Tgt Ion:149 Resp: 270022

Ion Ratio Lower Upper

149 100

167 28.8 21.6 32.4

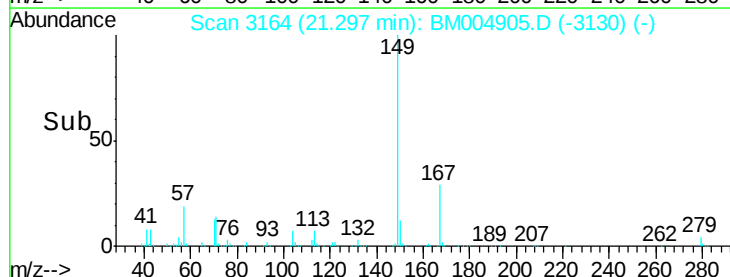
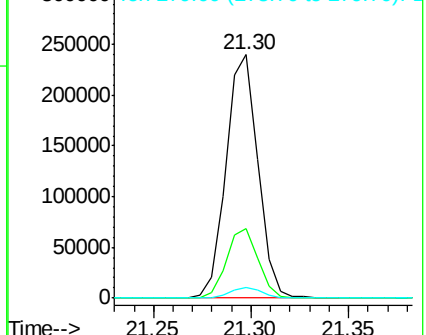
279 4.5 3.0 4.4#

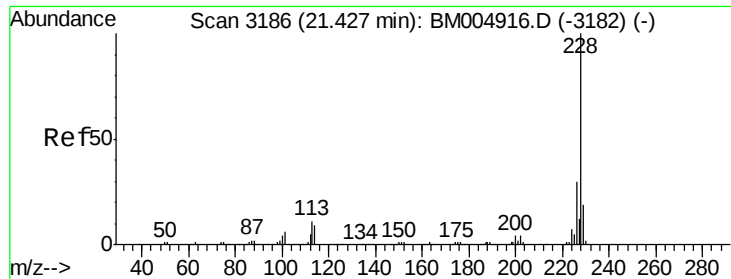


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 17.94 ng/u1

RT: 21.42 min Scan# 3185

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

Instrument :

BNA_M

ClientSampleId :

D9SE8

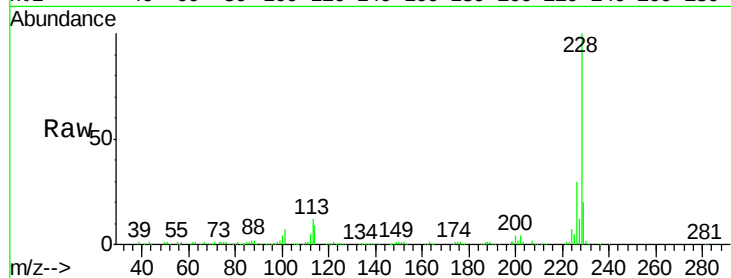
Tgt Ion:228 Resp: 355549

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

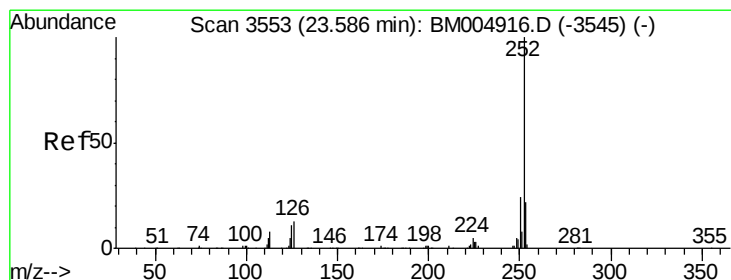
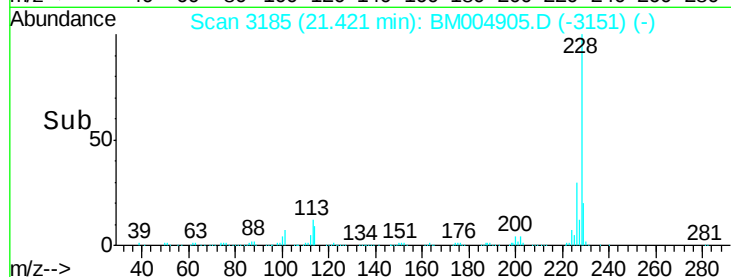
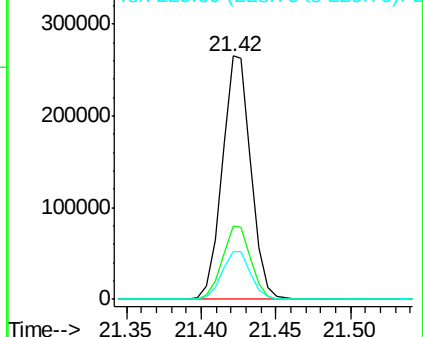
229 19.6 15.6 23.4



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



#91

Benzo(a)pyrene

Concen: 14.70 ng/u1

RT: 23.58 min Scan# 3552

Delta R.T. -0.00 min

Lab File: BM004905.D

Acq: 06 Apr 2016 15:13

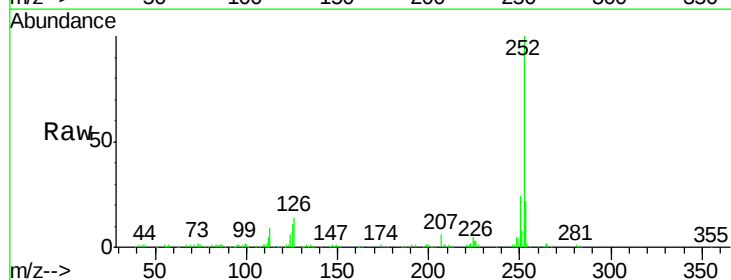
Tgt Ion:252 Resp: 302343

Ion Ratio Lower Upper

252 100

253 21.8 17.2 25.8

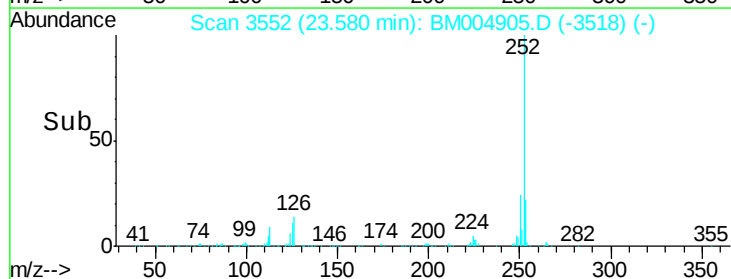
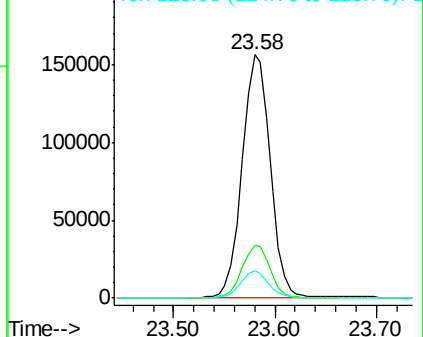
125 11.3 9.0 13.6

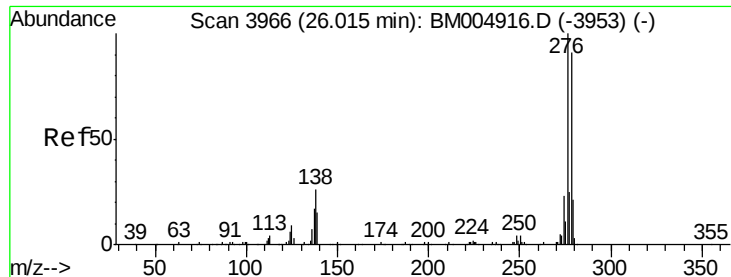


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

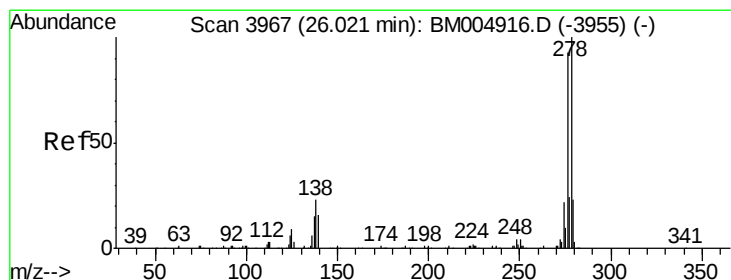
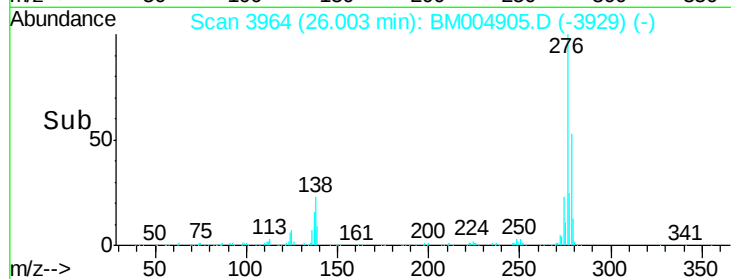
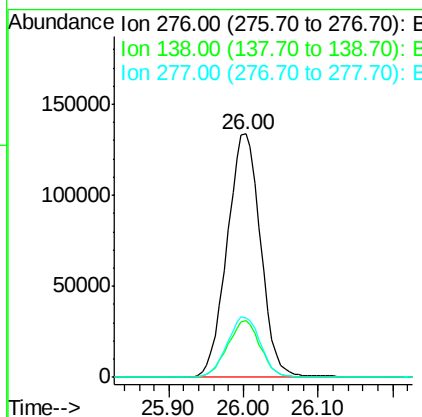
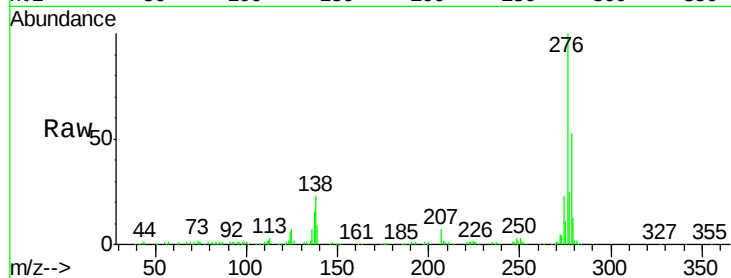




#92
 Indeno(1,2,3-cd)pyrene
 Concen: 16.99 ng/ul
 RT: 26.00 min Scan# 3964
 Delta R.T. 0.01 min
 Lab File: BM004905.D
 Acq: 06 Apr 2016 15:13

Instrument :
 BNA_M
 ClientSampleId :
 D9SE8

Tgt Ion:276 Resp: 416806
 Ion Ratio Lower Upper
 276 100
 138 23.3 22.3 33.5
 277 24.6 20.2 30.2



#93
 Dibenzo(a,h)anthracene
 Concen: 10.88 ng/ul
 RT: 26.01 min Scan# 3965
 Delta R.T. -0.00 min
 Lab File: BM004905.D
 Acq: 06 Apr 2016 15:13

Tgt Ion:278 Resp: 221852
 Ion Ratio Lower Upper
 278 100
 139 16.5 13.9 20.9
 279 23.3 19.0 28.4

