

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM072616\
 Data File : BM006653.D
 Acq On : 26 Jul 2016 16:11
 Operator : UM/SJ
 Sample : H4068-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 X2547

Quant Time: Jul 26 16:42:44 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072616.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jul 26 15:24:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	130179	20.00	ng/ul	0.00
18) Naphthalene-d8	10.39	136	581884	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.26	164	332201	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.02	188	762972	20.00	ng/ul	0.00
75) Chrysene-d12	21.22	240	830006	20.00	ng/ul	0.00
83) Perylene-d12	23.43	264	906685	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.13	96	9520	2.84	ng/uL	0.00
5) Phenol-d5	6.80	99	395224	34.54	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.95	67	247966	35.28	ng/ul	0.00
9) 2-Chlorophenol-d4	7.15	132	301583	33.60	ng/ul	0.00
13) 4-Methylphenol-d8	8.33	113	307408	34.25	ng/ul	0.00
19) Nitrobenzene-d5	8.77	128	152611	33.97	ng/ul	0.00
22) 2-Nitrophenol-d4	9.48	143	168518	34.72	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.02	165	313617	35.25	ng/ul	0.00
29) 4-Chloroaniline-d4	10.53	131	326034	36.07	ng/ul	0.00
43) Dimethylphthalate-d6	13.68	166	961283	36.26	ng/ul	0.00
46) Acenaphthylene-d8	13.96	160	1178318	35.35	ng/ul	0.00
51) 4-Nitrophenol-d4	14.50	143	176659	38.73	ng/ul	0.00
57) Fluorene-d10	15.26	176	816289	35.50	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.41	200	143459	34.50	ng/ul	0.00
70) Anthracene-d10	17.12	188	1316332	36.97	ng/ul	0.00
76) Pyrene-d10	19.42	212	1460336	37.92	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.29	264	1515840	36.94	ng/ul	0.00

Target Compounds

						Qvalue
6) Phenol	6.82	94	716000	59.20	ng/ul	96
10) 2-Chlorophenol	7.18	128	550438	59.96	ng/ul	97
12) 2,2'-oxybis(1-Chloropropan	8.13	45	371775	28.03	ng/ul	99
17) Hexachloroethane	8.67	117	232139	59.66	ng/ul	97
27) 2,4-Dichlorophenol	10.05	162	527592	59.80	ng/ul	99
28) Naphthalene	10.44	128	1672113	57.49	ng/ul	98
31) Hexachlorobutadiene	10.72	225	292612	52.60	ng/ul	98
36) 1,2,4,5-Tetrachlorobenzene	12.44	216	803806	75.27	ng/ul	99
45) 2,6-Dinitrotoluene	13.86	165	364173	65.98	ng/ul	98
49) Acenaphthene	14.33	153	1370541	61.97	ng/ul	99
54) 2,4-Dinitrotoluene	14.65	165	472294	60.84	ng/ul	97
56) Diethylphthalate	15.10	149	1765430	62.94	ng/ul	99
58) Fluorene	15.32	166	1600576	62.85	ng/ul	99
66) Hexachlorobenzene	16.33	284	582391	65.64	ng/ul	99
68) Pentachlorophenol	16.68	266	306037	77.40	ng/ul	97
71) Anthracene	17.15	178	2328712	54.48	ng/ul	99
77) Pyrene	19.46	202	3227557	63.68	ng/ul	99
78) Butylbenzylphthalate	20.36	149	1525589	65.37	ng/ul	98
80) Benzo(a)anthracene	21.21	228	2359992	47.65	ng/ul	100
81) Bis(2-ethylhexyl)phthalate	21.14	149	2132370	63.47	ng/ul	99
82) Chrysene	21.26	228	2331276	51.67	ng/ul	98
85) Benzo(b)fluoranthene	22.77	252	2545802	47.49	ng/ul	99
86) Benzo(k)fluoranthene	22.82	252	1976358	40.19	ng/ul	100

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM072616\
Data File : BM006653.D
Acq On : 26 Jul 2016 16:11
Operator : UM/SJ
Sample : H4068-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
X2547

Quant Time: Jul 26 16:42:44 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072616.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jul 26 15:24:14 2016
Response via : Initial Calibration

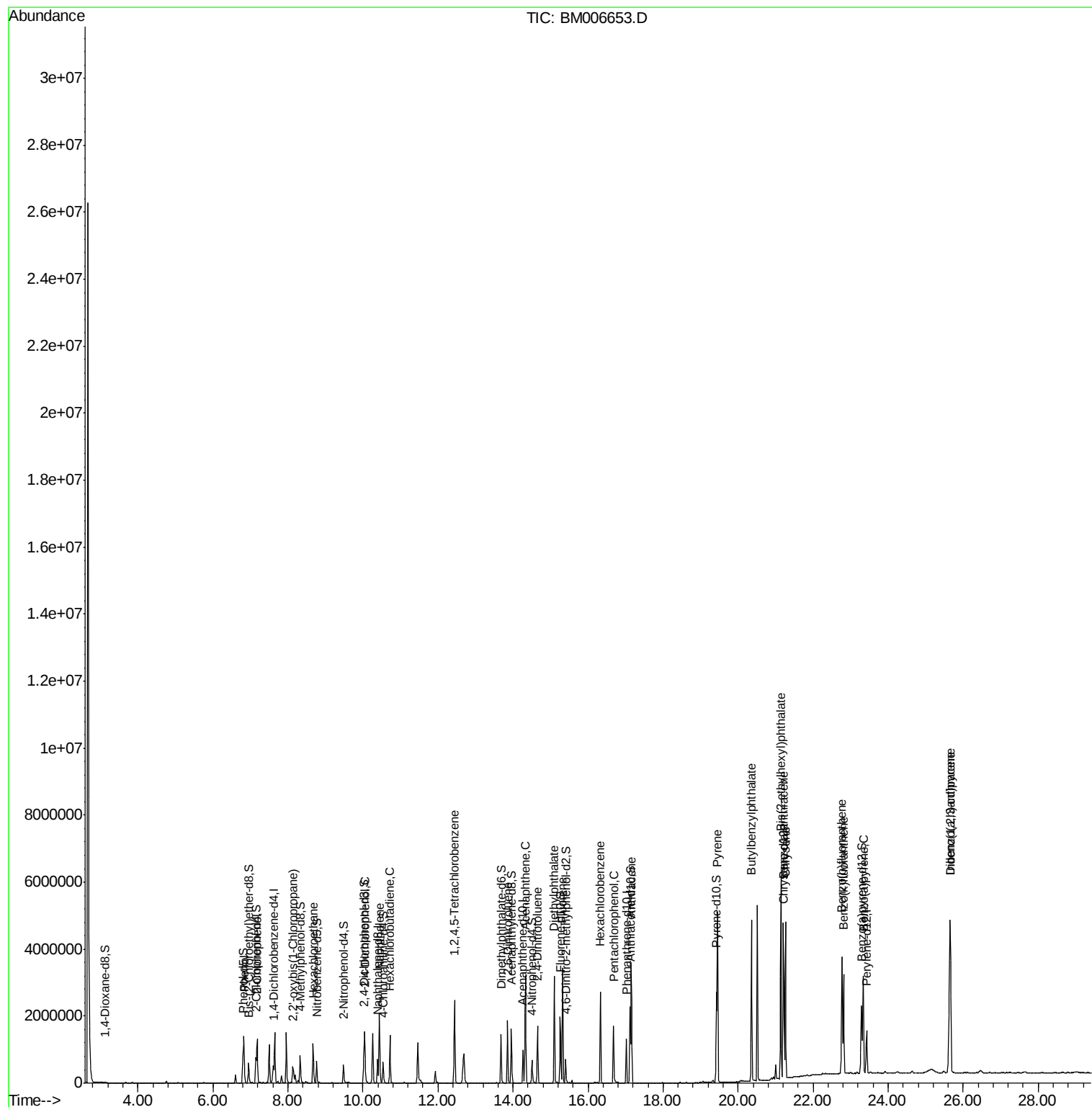
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(a)pyrene	23.34	252	2292817	44.85	ng/ul	99
89) Indeno(1,2,3-cd)pyrene	25.65	276	3363566	56.12	ng/ul	97
90) Dibenzo(a,h)anthracene	25.66	278	3047736	61.10	ng/ul	100

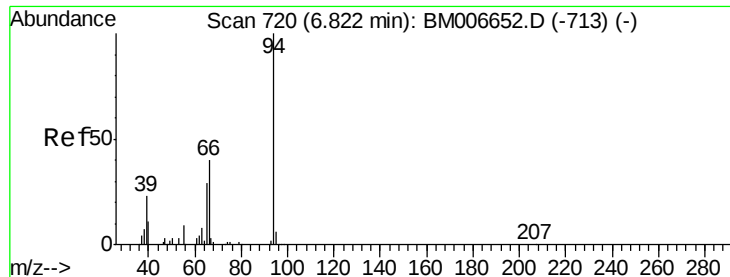
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM072616\
Data File : BM006653.D
Acq On : 26 Jul 2016 16:11
Operator : UM/SJ
Sample : H4068-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
X2547

Quant Time: Jul 26 16:42:44 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072616.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jul 26 15:24:14 2016
Response via : Initial Calibration





#6

Phenol

Concen: 59.20 ng/ul

RT: 6.82 min Scan# 720

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampleId :

X2547

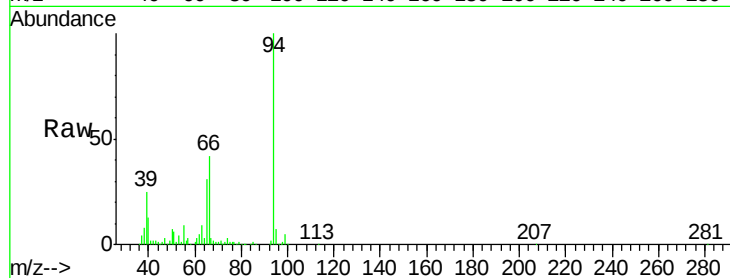
Tgt Ion: 94 Resp: 716000

Ion Ratio Lower Upper

94 100

65 30.5 25.8 38.8

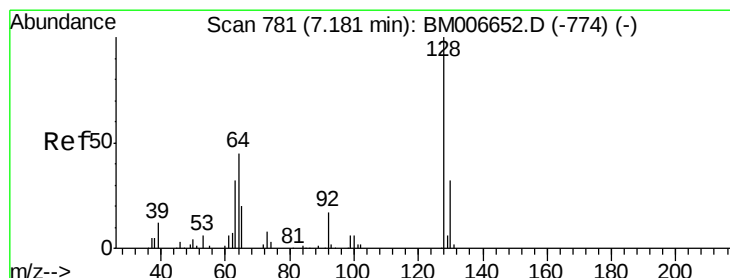
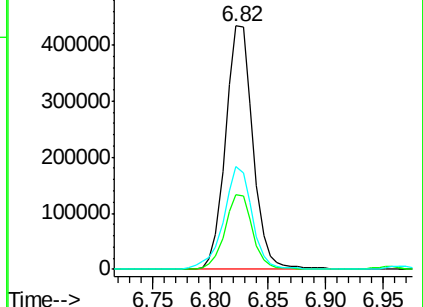
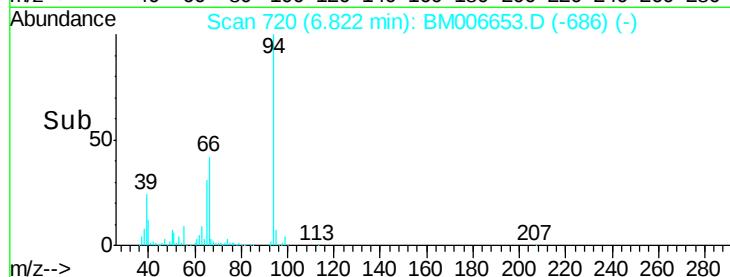
66 42.0 35.7 53.5



Abundance Ion 94.00 (93.70 to 94.70): BM006653.D (-686) (-)

Ion 65.00 (64.70 to 65.70): BM006653.D (-686) (-)

Ion 66.00 (65.70 to 66.70): BM006653.D (-686) (-)



#10

2-Chlorophenol

Concen: 59.96 ng/ul

RT: 7.18 min Scan# 781

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

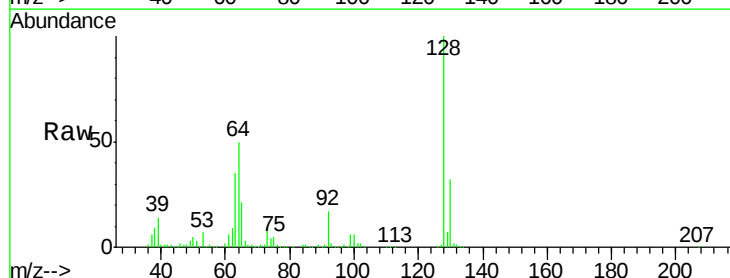
Tgt Ion: 128 Resp: 550438

Ion Ratio Lower Upper

128 100

64 50.1 42.6 63.8

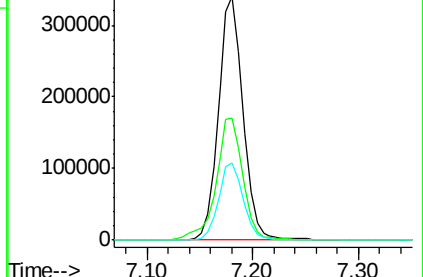
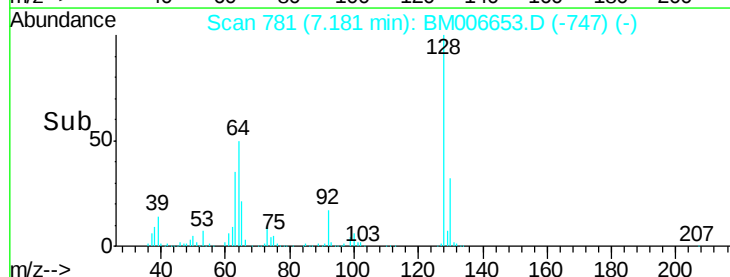
130 31.7 25.6 38.4

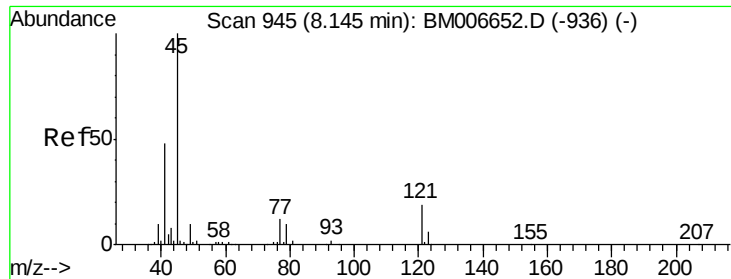


Abundance Ion 128.00 (127.70 to 128.70): BM006653.D (-747) (-)

Ion 64.00 (63.70 to 64.70): BM006653.D (-747) (-)

Ion 130.00 (129.70 to 130.70): BM006653.D (-747) (-)

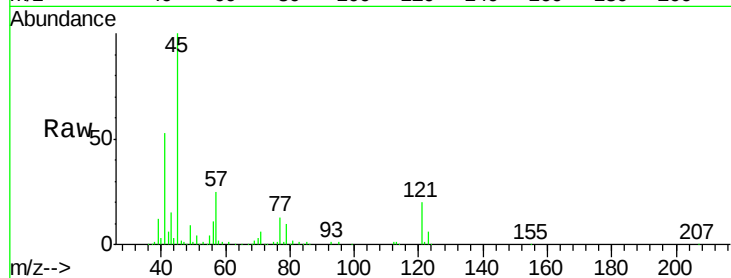




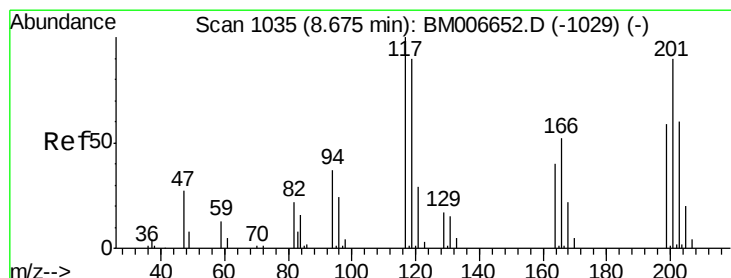
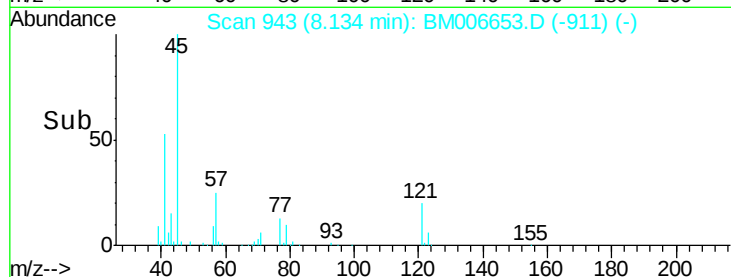
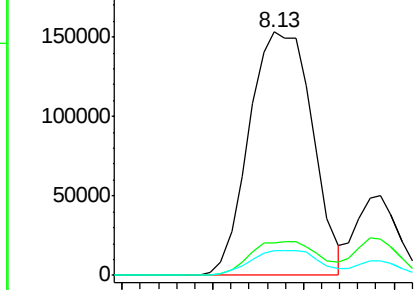
#12
 2,2'-oxybis(1-Chloropropane)
 Concen: 28.03 ng/ul
 RT: 8.13 min Scan# 943
 Delta R.T. -0.01 min
 Lab File: BM006653.D
 Acq: 26 Jul 2016 16:11

Instrument :
 BNA_M
 ClientSampleId :
 X2547

Tgt Ion: 45 Resp: 371775
 Ion Ratio Lower Upper
 45 100
 77 13.3 11.0 16.4
 79 10.0 8.2 12.4

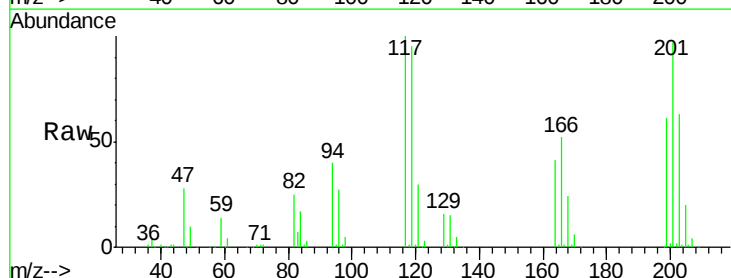


Abundance Ion 45.00 (44.70 to 45.70): BM006652.D (-936) (-)
 Ion 77.00 (76.70 to 77.70): BM006652.D (-936) (-)
 Ion 79.00 (78.70 to 79.70): BM006652.D (-936) (-)

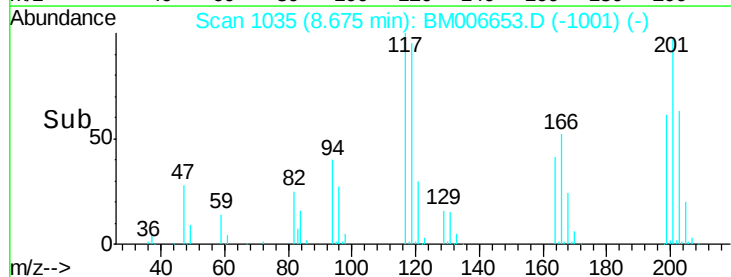
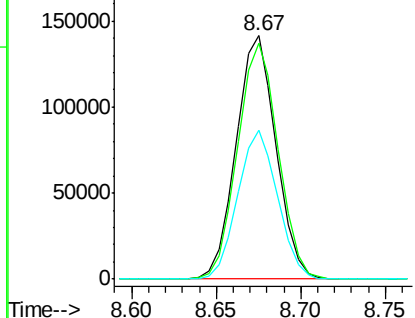


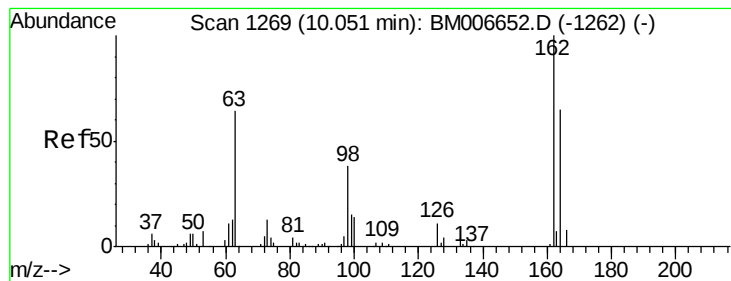
#17
 Hexachloroethane
 Concen: 59.66 ng/ul
 RT: 8.67 min Scan# 1035
 Delta R.T. 0.00 min
 Lab File: BM006653.D
 Acq: 26 Jul 2016 16:11

Tgt Ion: 117 Resp: 232139
 Ion Ratio Lower Upper
 117 100
 201 97.1 74.6 111.8
 199 61.0 47.5 71.3



Abundance Ion 117.00 (116.70 to 117.70): BM006652.D (-1029) (-)
 Ion 201.00 (200.70 to 201.70): BM006652.D (-1029) (-)
 Ion 199.00 (198.70 to 199.70): BM006652.D (-1029) (-)





#27

2,4-Dichlorophenol

Concen: 59.80 ng/ul

RT: 10.05 min Scan# 1269

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampleId :

X2547

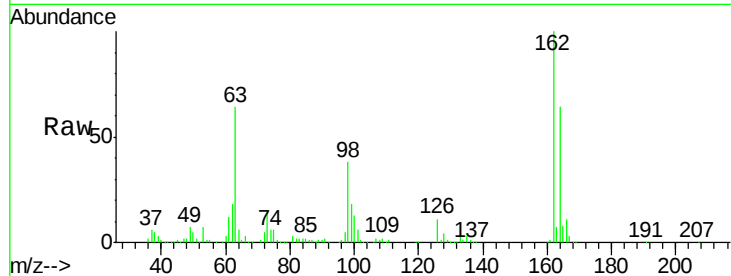
Tgt Ion:162 Resp: 527592

Ion Ratio Lower Upper

162 100

164 64.1 51.6 77.4

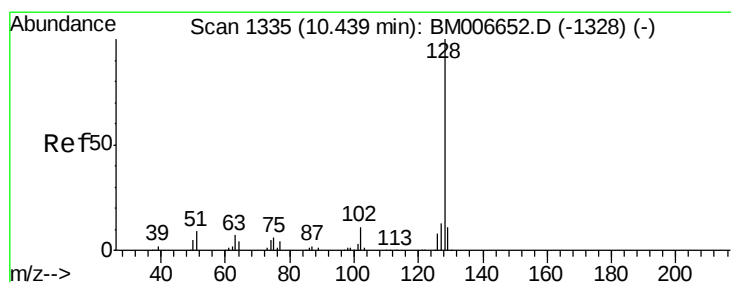
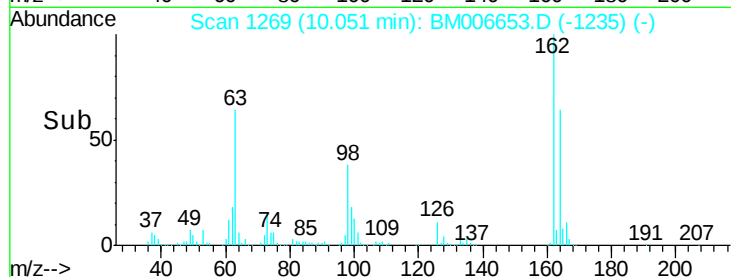
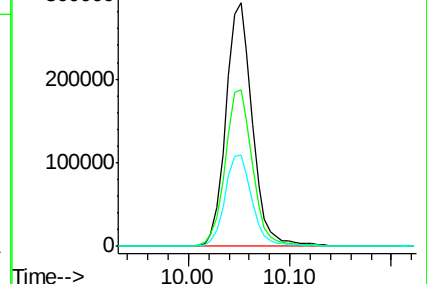
98 37.6 30.3 45.5



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BM



#28

Naphthalene

Concen: 57.49 ng/ul

RT: 10.44 min Scan# 1335

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

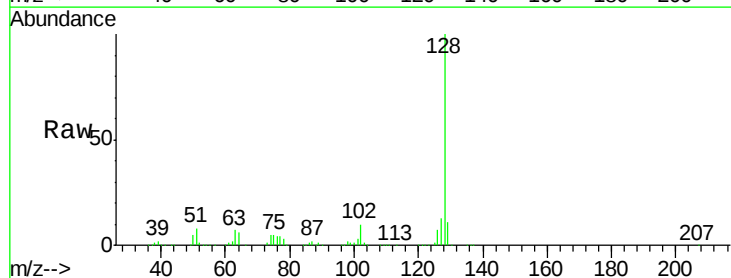
Tgt Ion:128 Resp: 1672113

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

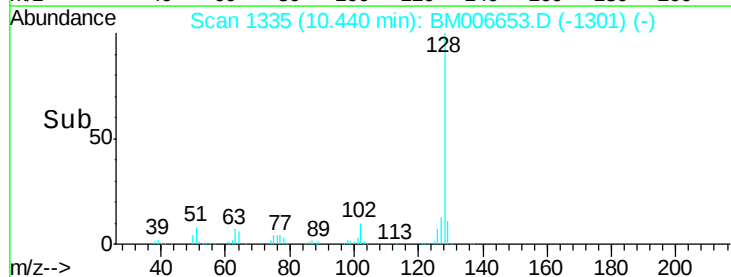
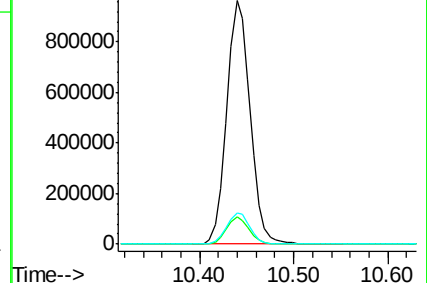
127 12.6 10.9 16.3

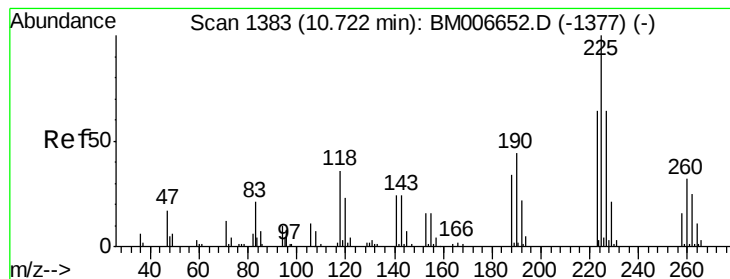


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#31

Hexachlorobutadiene

Concen: 52.60 ng/ul

RT: 10.72 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampled :

X2547

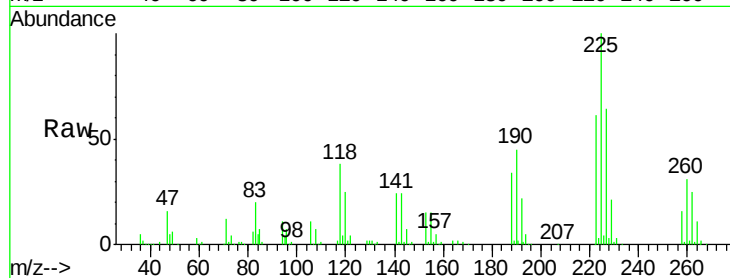
Tgt Ion:225 Resp: 292612

Ion Ratio Lower Upper

225 100

223 60.6 49.4 74.2

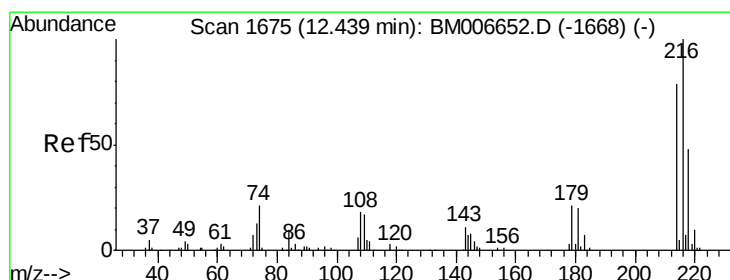
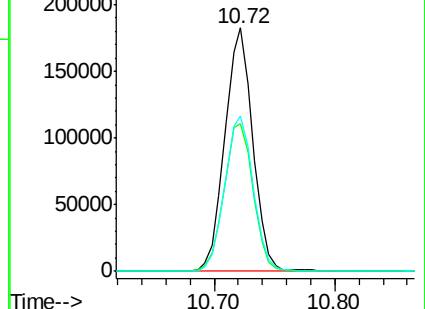
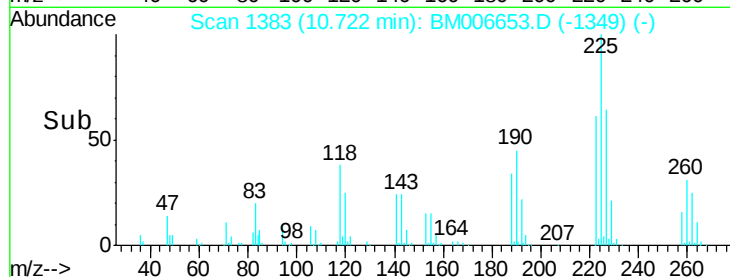
227 63.5 49.9 74.9



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



#36

1,2,4,5-Tetrachlorobenzene

Concen: 75.27 ng/ul

RT: 12.44 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Tgt Ion:216 Resp: 803806

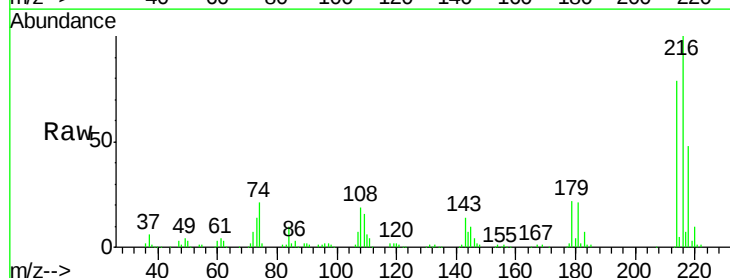
Ion Ratio Lower Upper

216 100

214 78.8 62.4 93.6

179 22.0 16.8 25.2

108 18.9 15.0 22.4

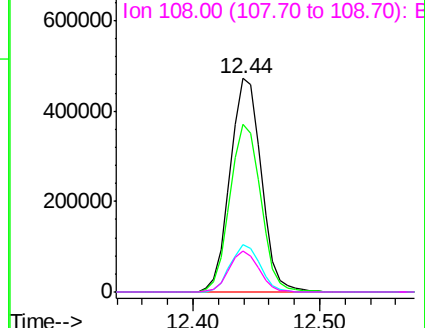
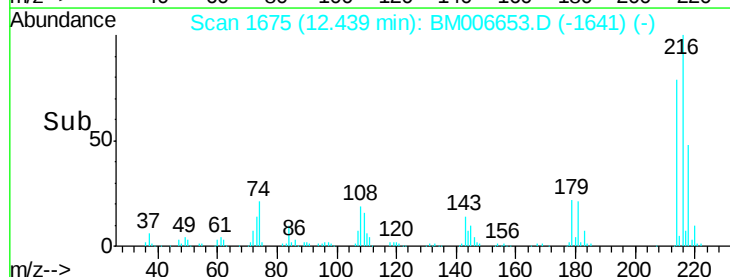


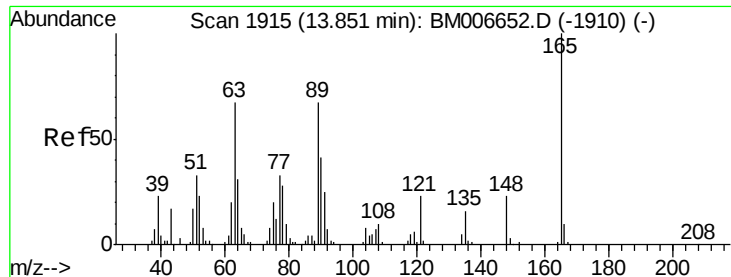
Abundance Ion 216.00 (215.70 to 216.70): E

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

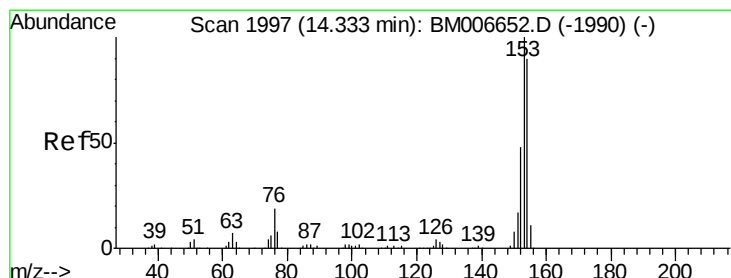
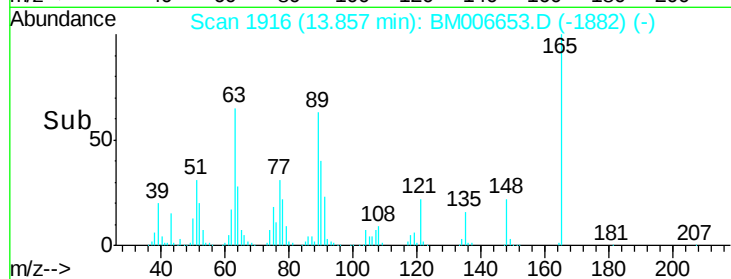
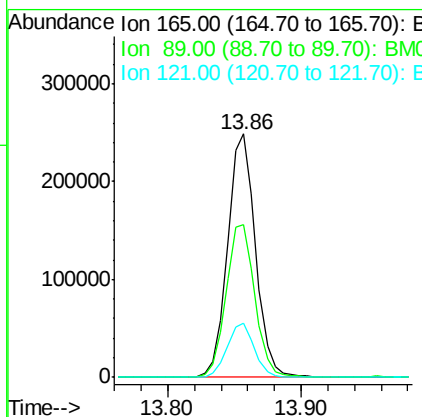
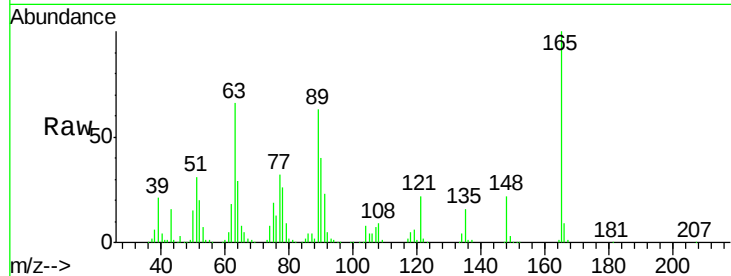




#45
 2,6-Dinitrotoluene
 Concen: 65.98 ng/ul
 RT: 13.86 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: BM006653.D
 Acq: 26 Jul 2016 16:11

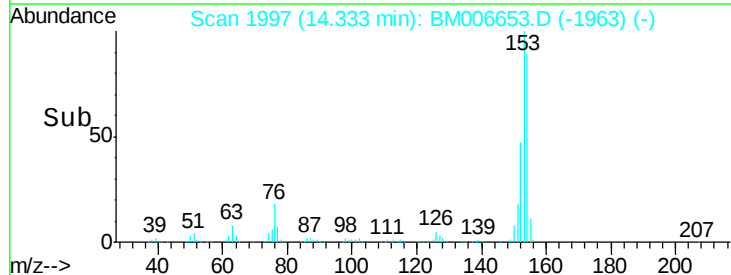
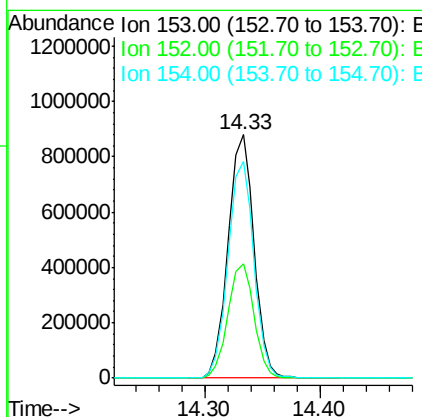
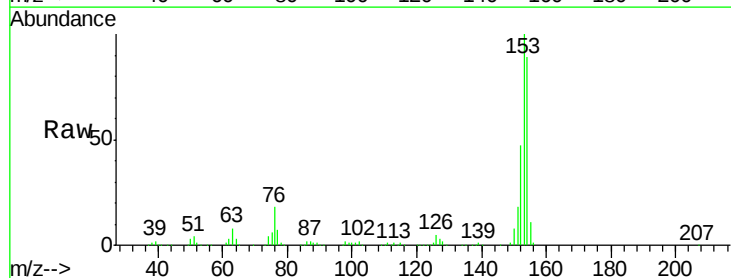
Instrument :
 BNA_M
 ClientSampleId :
 X2547

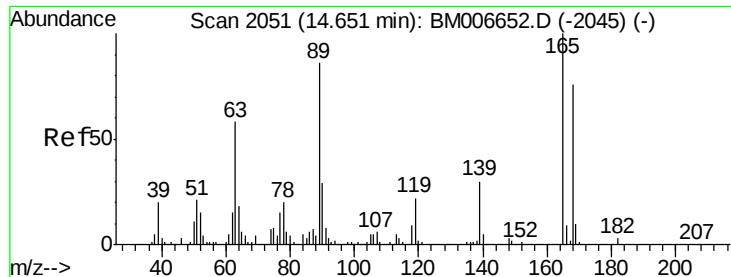
Tgt Ion:165 Resp: 364173
 Ion Ratio Lower Upper
 165 100
 89 62.9 52.1 78.1
 121 22.2 17.3 25.9



#49
 Acenaphthene
 Concen: 61.97 ng/ul
 RT: 14.33 min Scan# 1997
 Delta R.T. 0.00 min
 Lab File: BM006653.D
 Acq: 26 Jul 2016 16:11

Tgt Ion:153 Resp: 1370541
 Ion Ratio Lower Upper
 153 100
 152 46.8 37.7 56.5
 154 89.3 70.0 105.0

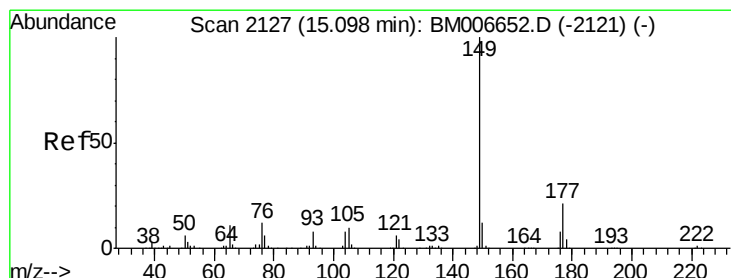
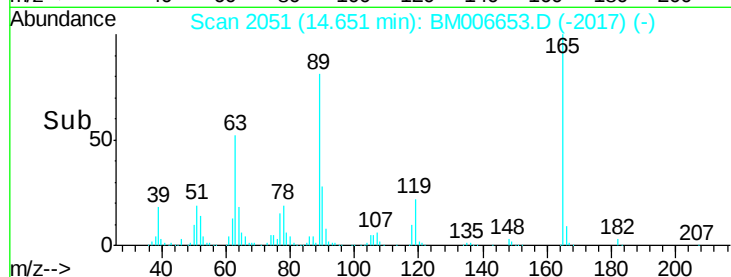
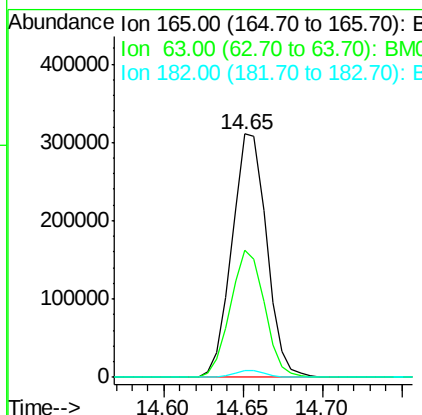
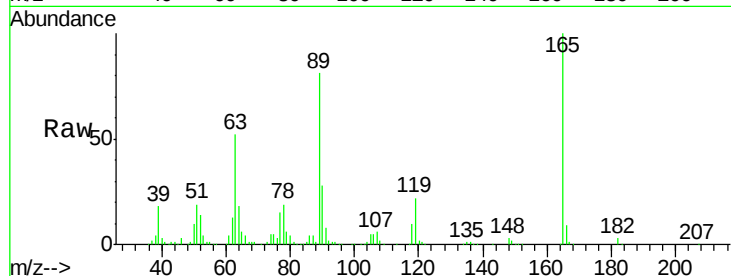




#54
2,4-Dinitrotoluene
Concen: 60.84 ng/ul
RT: 14.65 min Scan# 2051
Delta R.T. 0.00 min
Lab File: BM006653.D
Acq: 26 Jul 2016 16:11

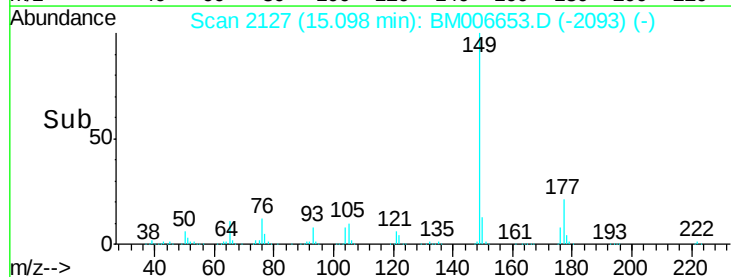
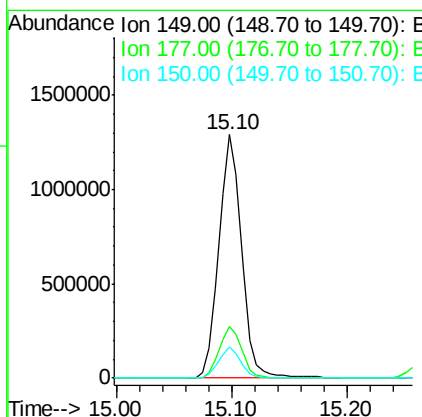
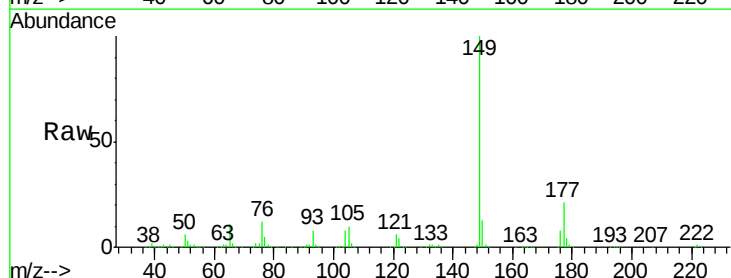
Instrument :
BNA_M
ClientSampleId :
X2547

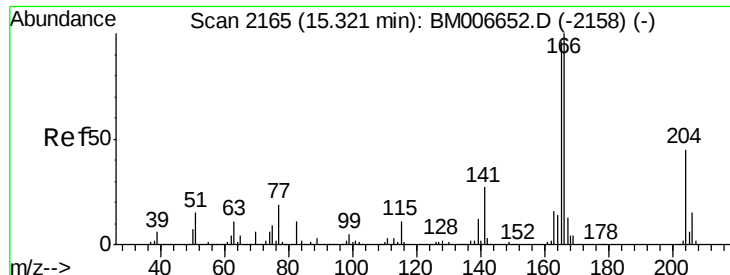
Tgt Ion:165 Resp: 472294
Ion Ratio Lower Upper
165 100
63 52.3 43.7 65.5
182 2.6 2.1 3.1



#56
Diethylphthalate
Concen: 62.94 ng/ul
RT: 15.10 min Scan# 2127
Delta R.T. 0.00 min
Lab File: BM006653.D
Acq: 26 Jul 2016 16:11

Tgt Ion:149 Resp: 1765430
Ion Ratio Lower Upper
149 100
177 21.3 17.7 26.5
150 12.6 9.8 14.8





#58

Fluorene

Concen: 62.85 ng/ul

RT: 15.32 min Scan# 2165

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampled :

X2547

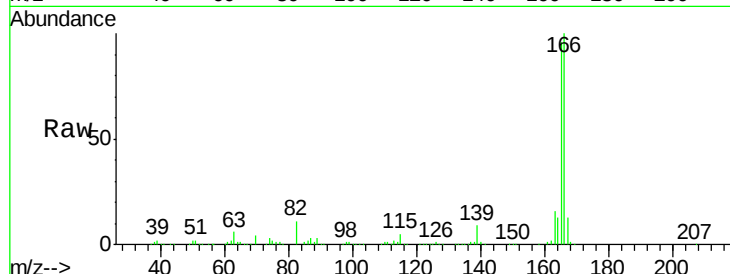
Tgt Ion:166 Resp: 1600576

Ion Ratio Lower Upper

166 100

165 95.8 77.5 116.3

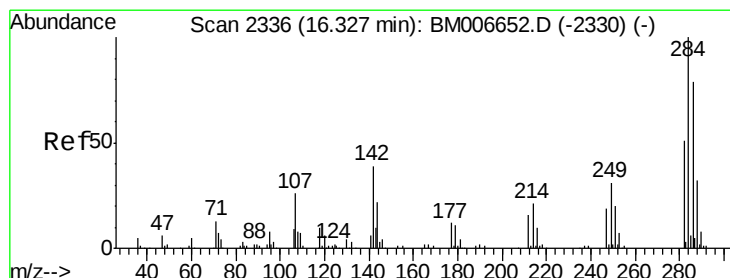
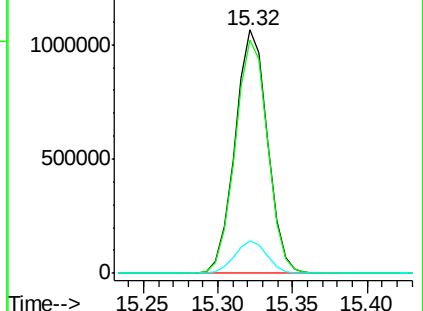
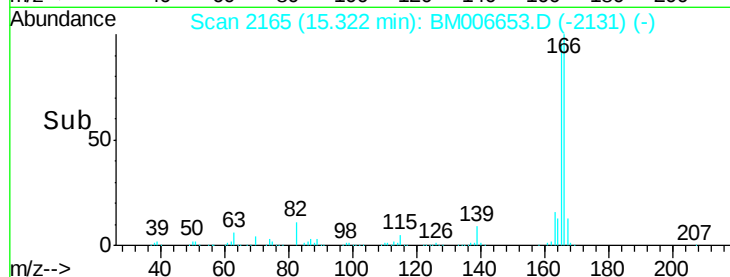
167 13.2 10.8 16.2



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



#66

Hexachlorobenzene

Concen: 65.64 ng/ul

RT: 16.33 min Scan# 2337

Delta R.T. 0.01 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

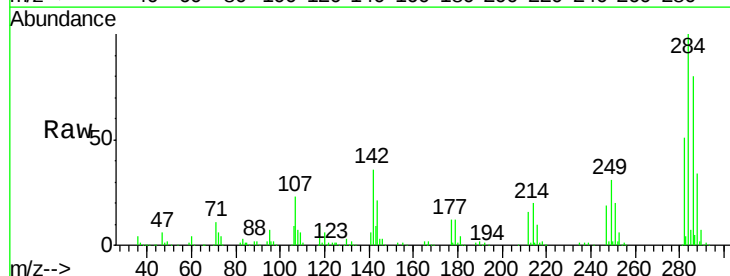
Tgt Ion:284 Resp: 582391

Ion Ratio Lower Upper

284 100

142 35.9 29.7 44.5

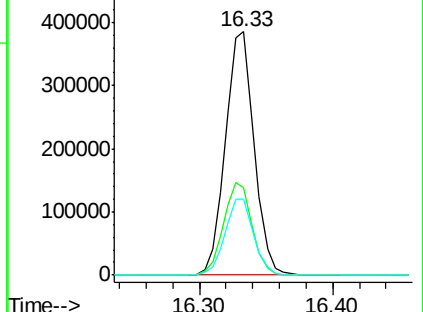
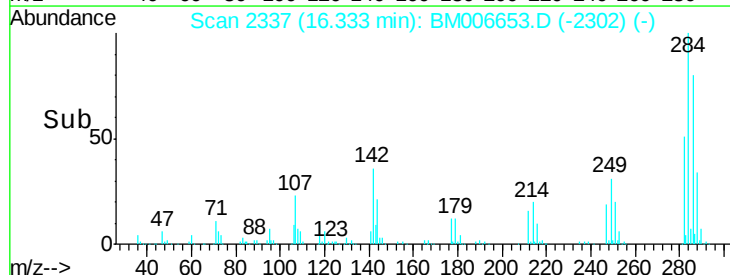
249 31.3 24.7 37.1

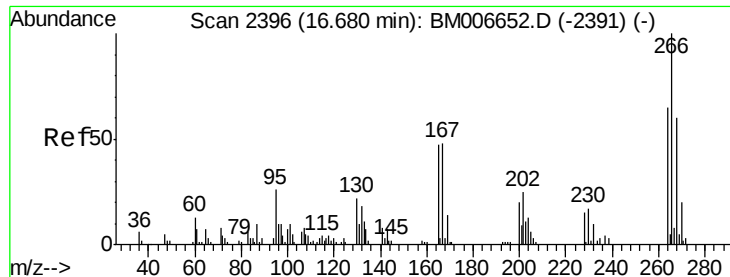


Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

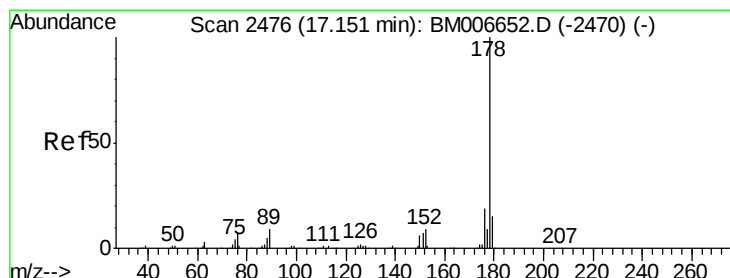
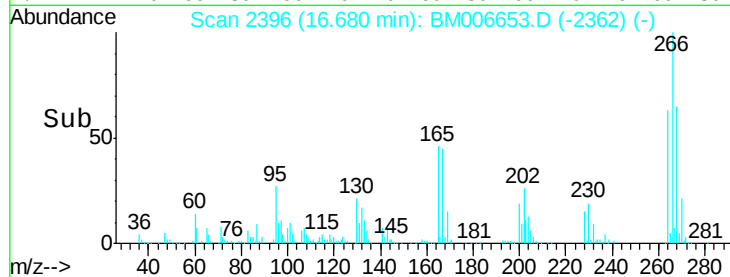
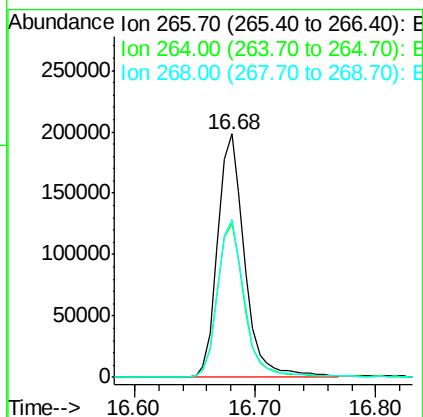
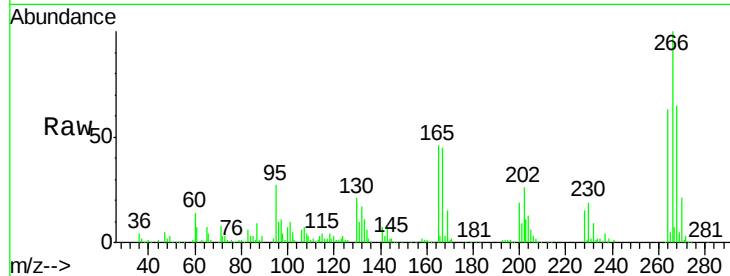




#68
 Pentachlorophenol
 Concen: 77.40 ng/ul
 RT: 16.68 min Scan# 2396
 Delta R.T. 0.00 min
 Lab File: BM006653.D
 Acq: 26 Jul 2016 16:11

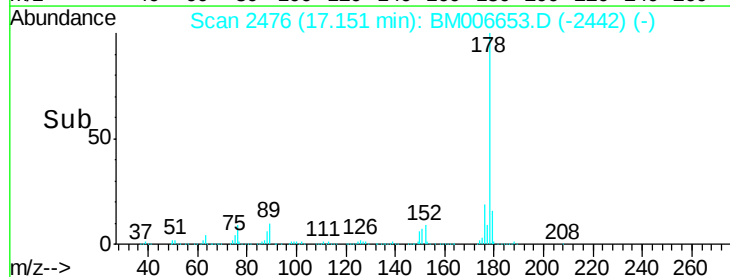
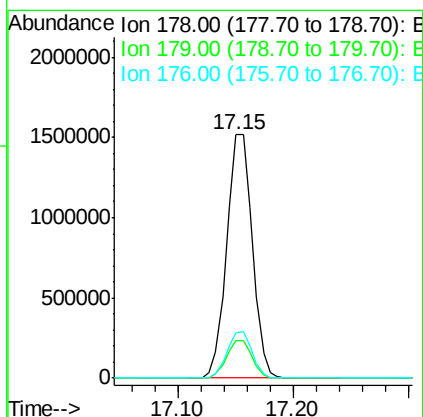
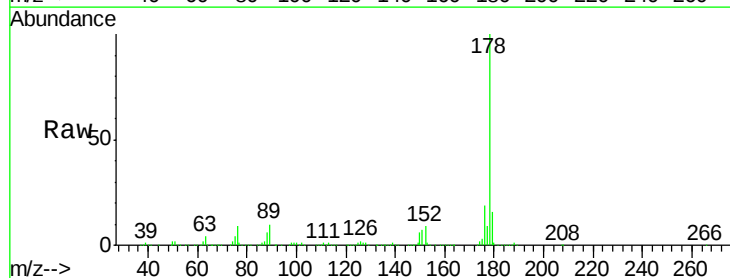
Instrument :
 BNA_M
 ClientSampleId :
 X2547

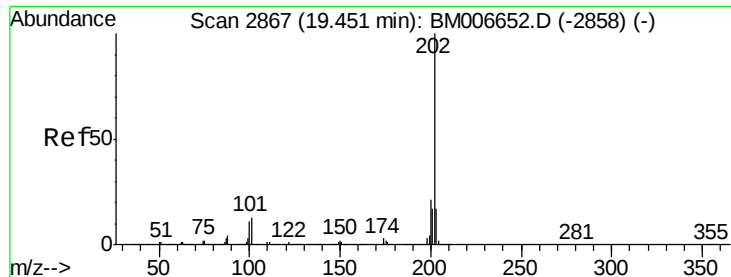
Tgt Ion:266 Resp: 306037
 Ion Ratio Lower Upper
 266 100
 264 63.1 53.7 80.5
 268 64.7 51.4 77.0



#71
 Anthracene
 Concen: 54.48 ng/ul
 RT: 17.15 min Scan# 2476
 Delta R.T. 0.00 min
 Lab File: BM006653.D
 Acq: 26 Jul 2016 16:11

Tgt Ion:178 Resp: 2328712
 Ion Ratio Lower Upper
 178 100
 179 15.5 12.0 18.0
 176 18.8 15.0 22.6





#77

Pyrene

Concen: 63.68 ng/ul

RT: 19.46 min Scan# 2868

Delta R.T. 0.01 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampleId :

X2547

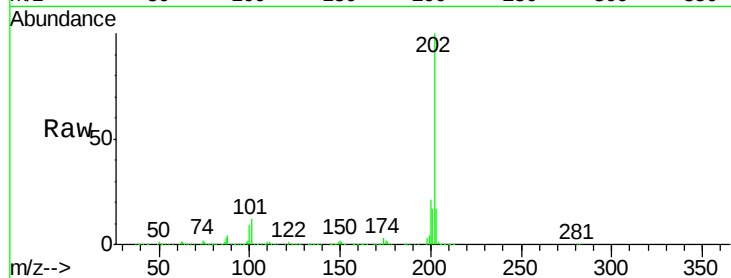
Tgt Ion:202 Resp: 3227557

Ion Ratio Lower Upper

202 100

101 12.0 10.0 15.0

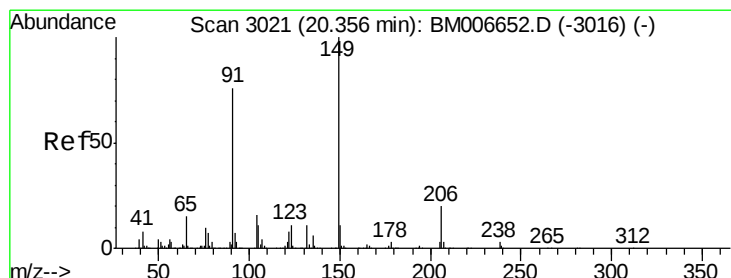
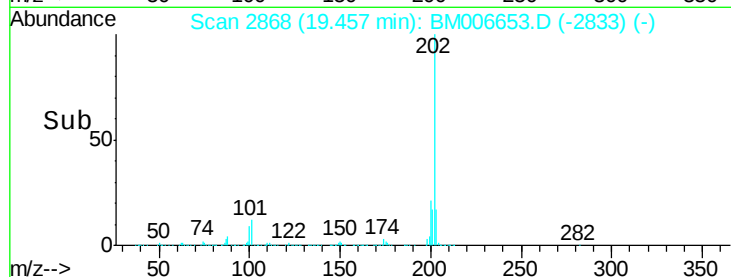
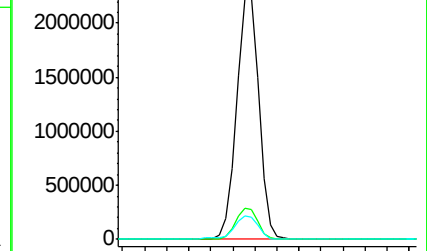
100 9.3 7.9 11.9



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): E



#78

Butylbenzylphthalate

Concen: 65.37 ng/ul

RT: 20.36 min Scan# 3021

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

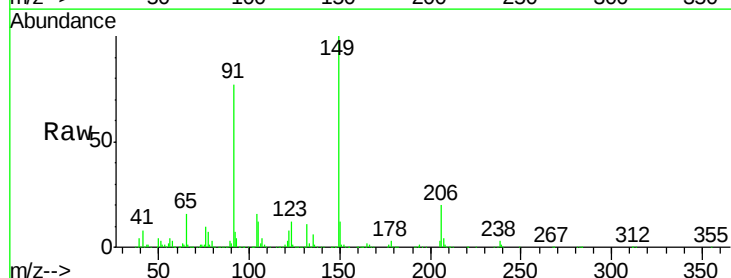
Tgt Ion:149 Resp: 1525589

Ion Ratio Lower Upper

149 100

91 77.4 60.9 91.3

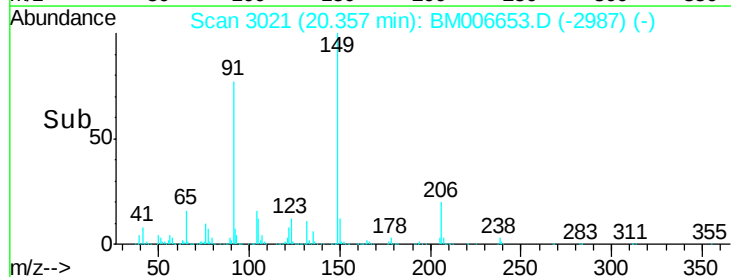
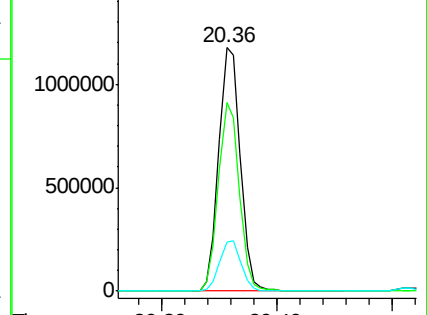
206 20.2 17.2 25.8

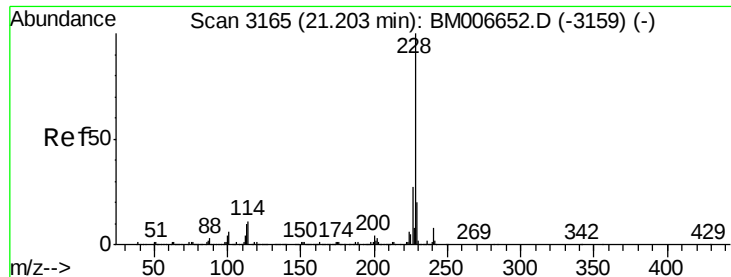


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): E

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 47.65 ng/ul

RT: 21.21 min Scan# 3166

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampleId :

X2547

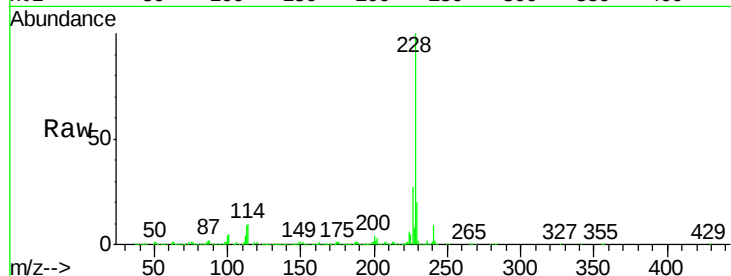
Tgt Ion:228 Resp: 2359992

Ion Ratio Lower Upper

228 100

229 19.5 15.6 23.4

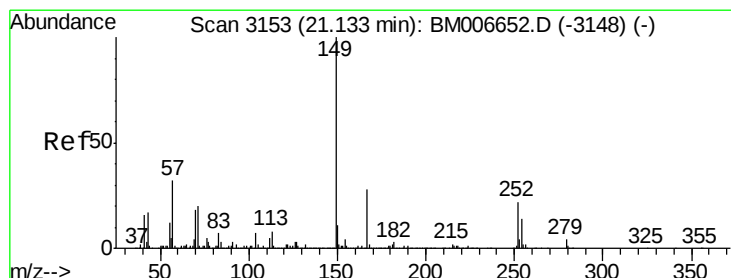
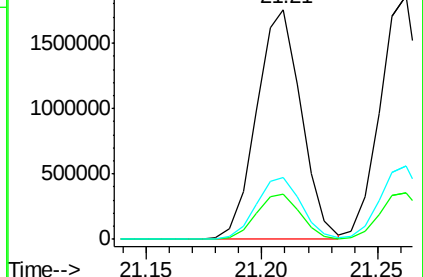
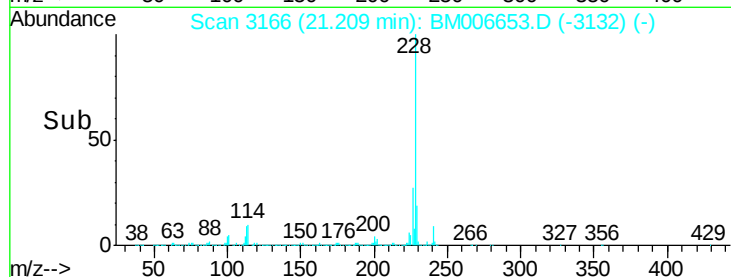
226 26.9 21.4 32.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#81

Bis(2-ethylhexyl)phthalate

Concen: 63.47 ng/ul

RT: 21.14 min Scan# 3154

Delta R.T. 0.01 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

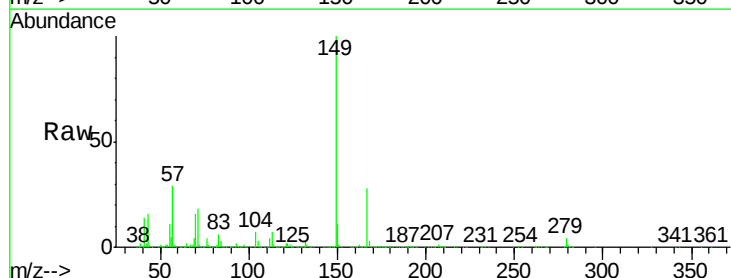
Tgt Ion:149 Resp: 2132370

Ion Ratio Lower Upper

149 100

167 28.4 22.2 33.2

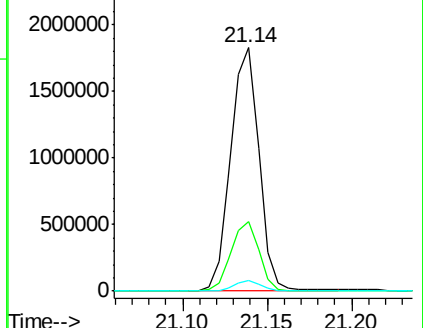
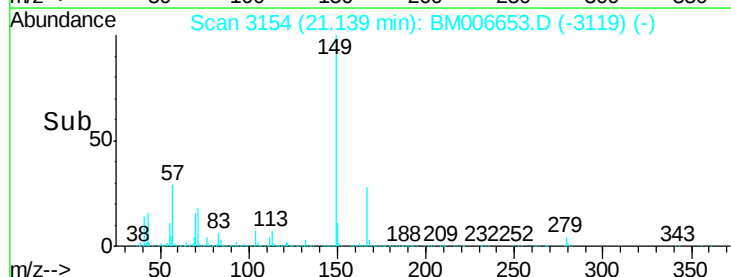
279 4.3 3.1 4.7

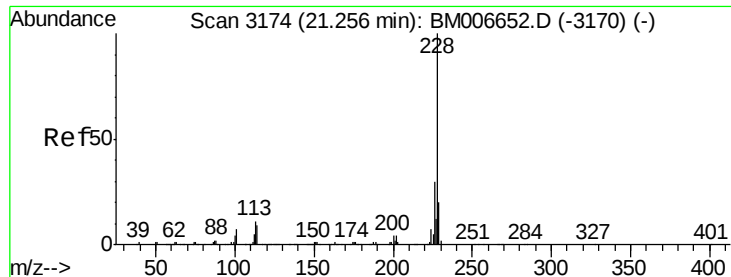


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#82

Chrysene

Concen: 51.67 ng/ul

RT: 21.26 min Scan# 3175

Delta R.T. 0.01 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampleId :

X2547

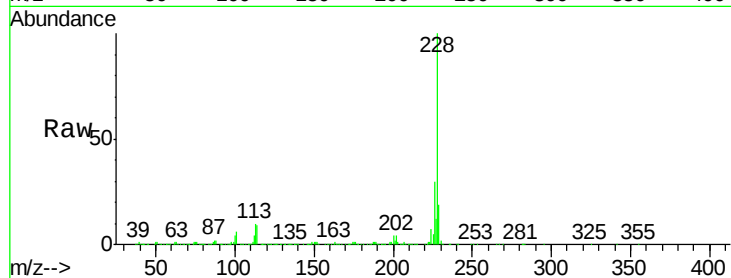
Tgt Ion:228 Resp: 2331276

Ion Ratio Lower Upper

228 100

226 30.2 23.3 34.9

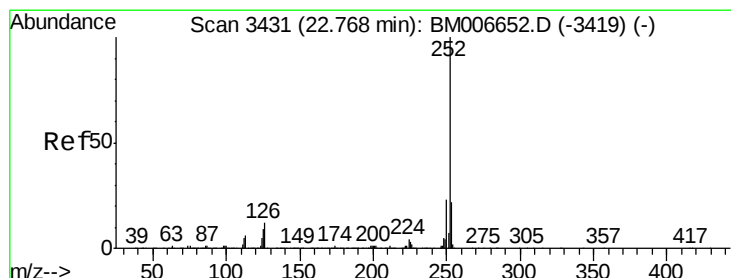
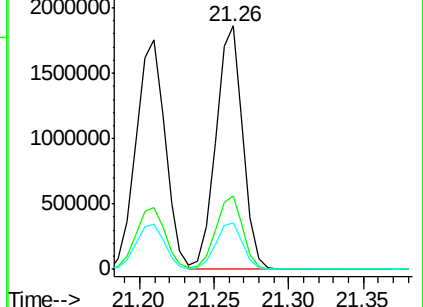
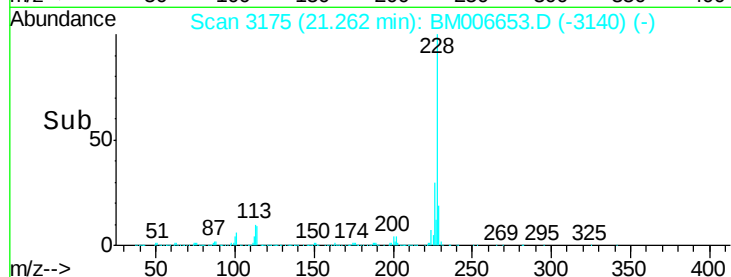
229 19.3 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Benzo(b)fluoranthene

Concen: 47.49 ng/ul

RT: 22.77 min Scan# 3431

Delta R.T. 0.00 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

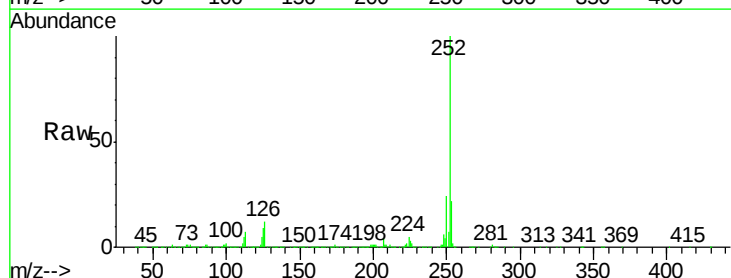
Tgt Ion:252 Resp: 2545802

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.2

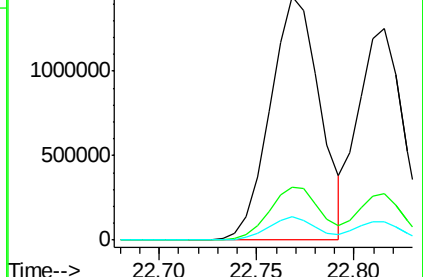
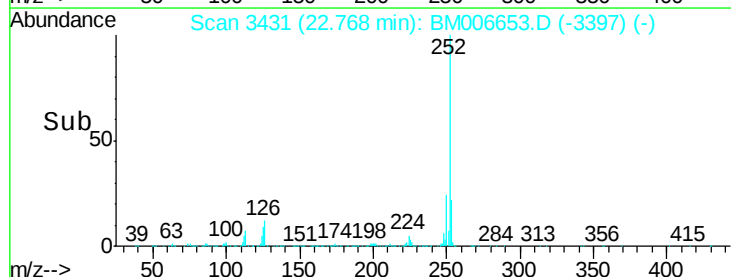
125 9.4 6.7 10.1

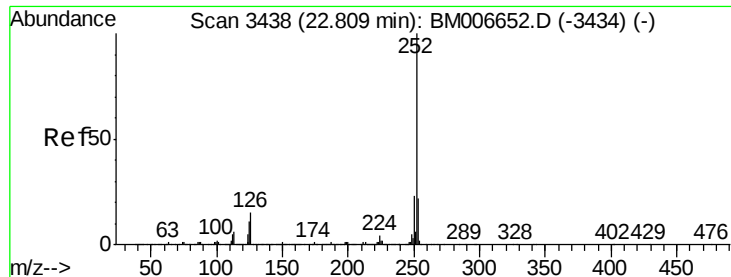


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#86

Benzo(k)fluoranthene

Concen: 40.19 ng/ul

RT: 22.82 min Scan# 3439

Delta R.T. 0.01 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampleId :

X2547

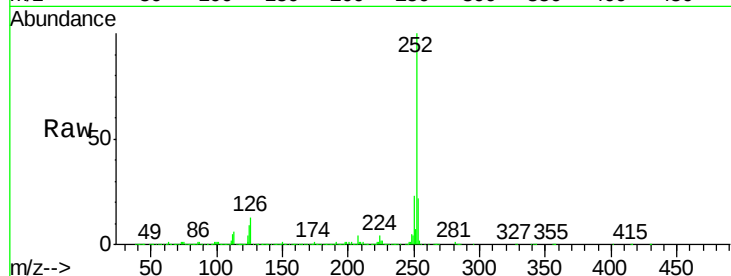
Tgt Ion:252 Resp: 1976358

Ion Ratio Lower Upper

252 100

253 21.9 17.3 25.9

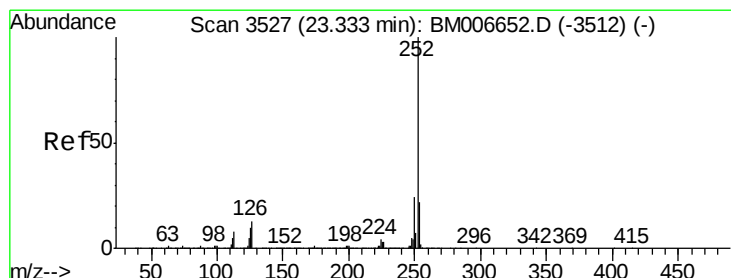
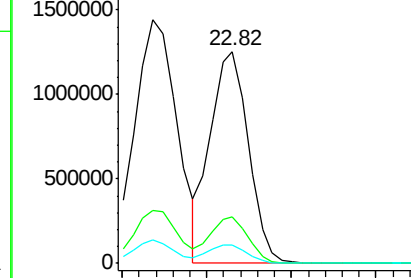
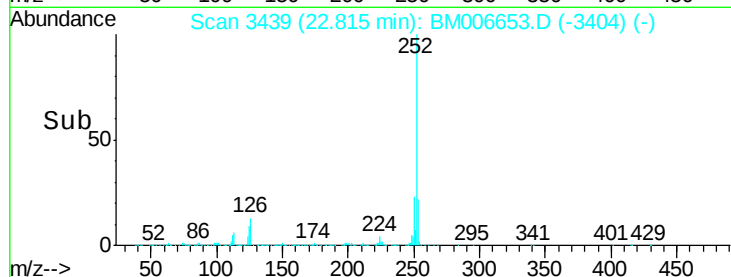
125 8.8 7.0 10.4



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



#88

Benzo(a)pyrene

Concen: 44.85 ng/ul

RT: 23.34 min Scan# 3528

Delta R.T. 0.01 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

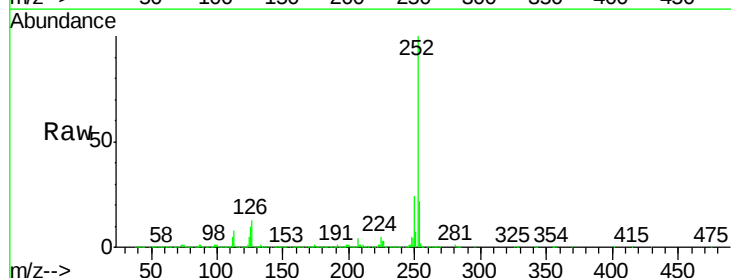
Tgt Ion:252 Resp: 2292817

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.2

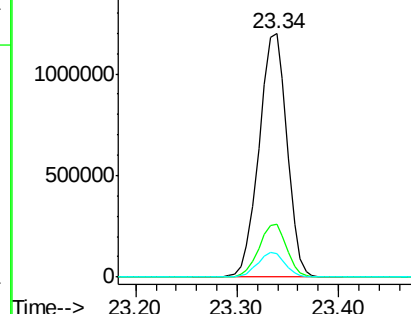
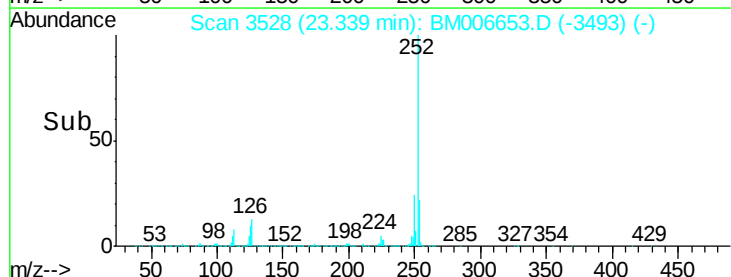
125 9.8 7.6 11.4

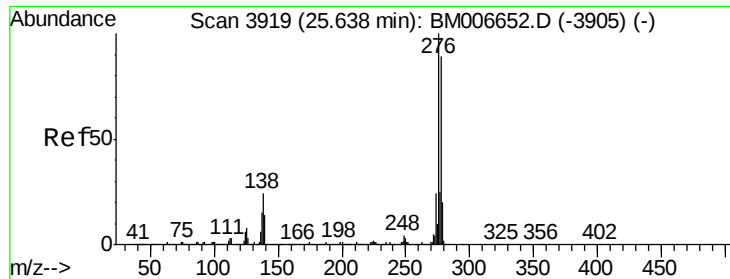


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Indeno(1,2,3-cd)pyrene

Concen: 56.12 ng/ul

RT: 25.65 min Scan# 3921

Delta R.T. 0.01 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

Instrument :

BNA_M

ClientSampleId :

X2547

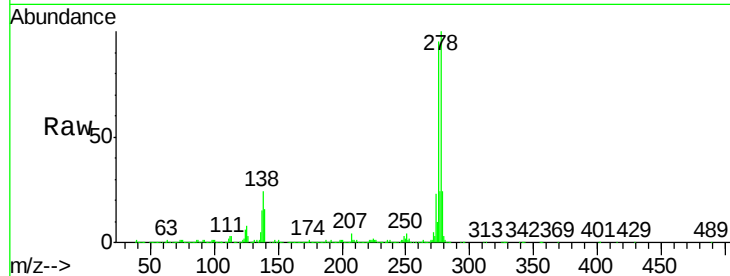
Tgt Ion:276 Resp: 3363566

Ion Ratio Lower Upper

276 100

138 24.7 17.8 26.6

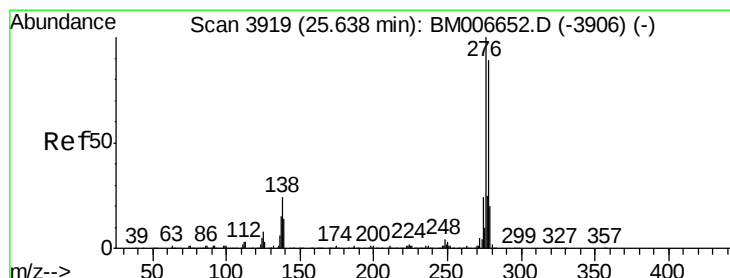
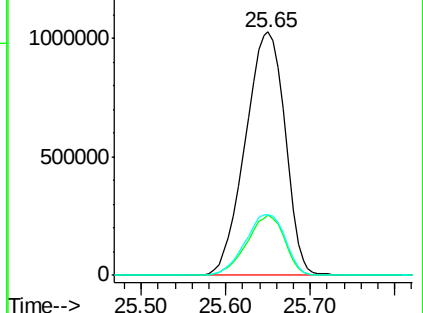
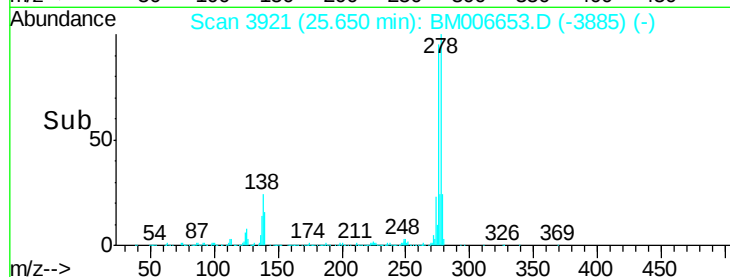
277 25.1 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#90

Dibenzo(a,h)anthracene

Concen: 61.10 ng/ul

RT: 25.66 min Scan# 3922

Delta R.T. 0.01 min

Lab File: BM006653.D

Acq: 26 Jul 2016 16:11

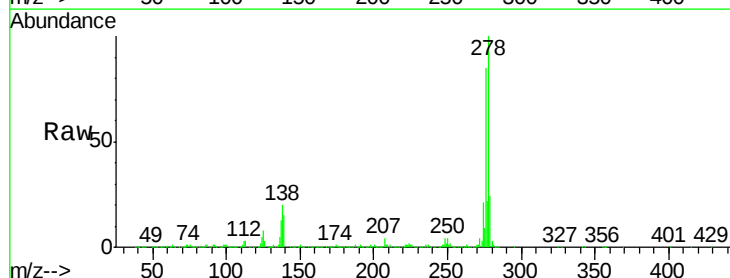
Tgt Ion:278 Resp: 3047736

Ion Ratio Lower Upper

278 100

139 14.6 11.7 17.5

279 23.7 19.2 28.8



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

