Data Path : Z:\HPCHEM1\BNA_E\DATA\BE072216\
Data File : BE092013.D
Acq On : 22 Jul 2016 19:28
Operator : UM/SJ
Sample : H4120-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Quant Time: Jul 23 01:32:00 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE072216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 22 15:39:27 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	22665	5.00 ng	0.00
8) Naphthalene-d8	10.99	136	112199	5.00 ng	0.00
15) Acenaphthene-d10	14.86	164	71301	5.00 ng	0.00
24) Phenanthrene-d10	17.59	188	164522	5.00 ng	0.00
31) Chrysene-d12	21.76	240	216785	5.00 ng	0.00
40) Perylene-d12	24.16	264	177803	5.00 ng	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	5.72	112	10945	2.49 ng	0.00
5) Phenol-d6	7.35	99	10137	1.40 ng	-0.02
9) Nitrobenzene-d5	9.36	82	20911	3.10 ng	-0.02
16) 2,4,6-Tribromophenol	16.35	330	15766	6.41 ng	0.00
17) 2-Fluorobiphenyl	13.47	172	63124	3.37 ng	-0.01
34) Terphenyl-d14	20.20	244	115236	5.29 ng	-0.02
Target Compounds					Qvalue
2) 1,4-Dioxane	3.47	88	72	0.02 ng	# 1
3) n-Nitrosodimethylamine	3.75	42	236	0.14 ng	# 1
7) n-Nitroso-di-n-propylamine	8.94	70	296	0.05 ng	# 66
10) Nitrobenzene	9.46	77	55	0.13 ng	# 22
11) bis(2-Chloroethoxy)methane	10.20	93	220	0.03 ng	# 1
12) Naphthalene	11.04	128	1340	0.05 ng	# 53
14) 2-Methylnaphthalene	12.68	142	494	0.03 ng	# 87
19) 2,6-Dinitrotoluene	14.26	165	1890	0.26 ng	# 10
20) Acenaphthene	14.92	154	668	0.04 ng	# 1
21) 2,4-Dinitrotoluene	14.86	165	41495	2.22 ng	# 1
27) Pentachlorophenol	17.25	266	45	0.23 ng	# 73
28) Phenanthrene	17.63	178	3283	0.08 ng	# 93
30) Fluoranthene	19.63	202	4738	0.03 ng	# 70
32) Benzidine	19.88	184	219	0.20 ng	# 1
33) Pyrene	19.99	202	4588	0.03 ng	# 64
35) Benzo(a)anthracene	21.76	228	1184	0.02 ng	# 50
36) 3,3'-Dichlorobenzidine	21.67	252	55	0.03 ng	# 75
37) Chrysene	21.76	228	1220	0.02 ng	# 63
38) Bis(2-ethylhexyl)phthalate	21.64	149	23669	0.62 ng	# 100

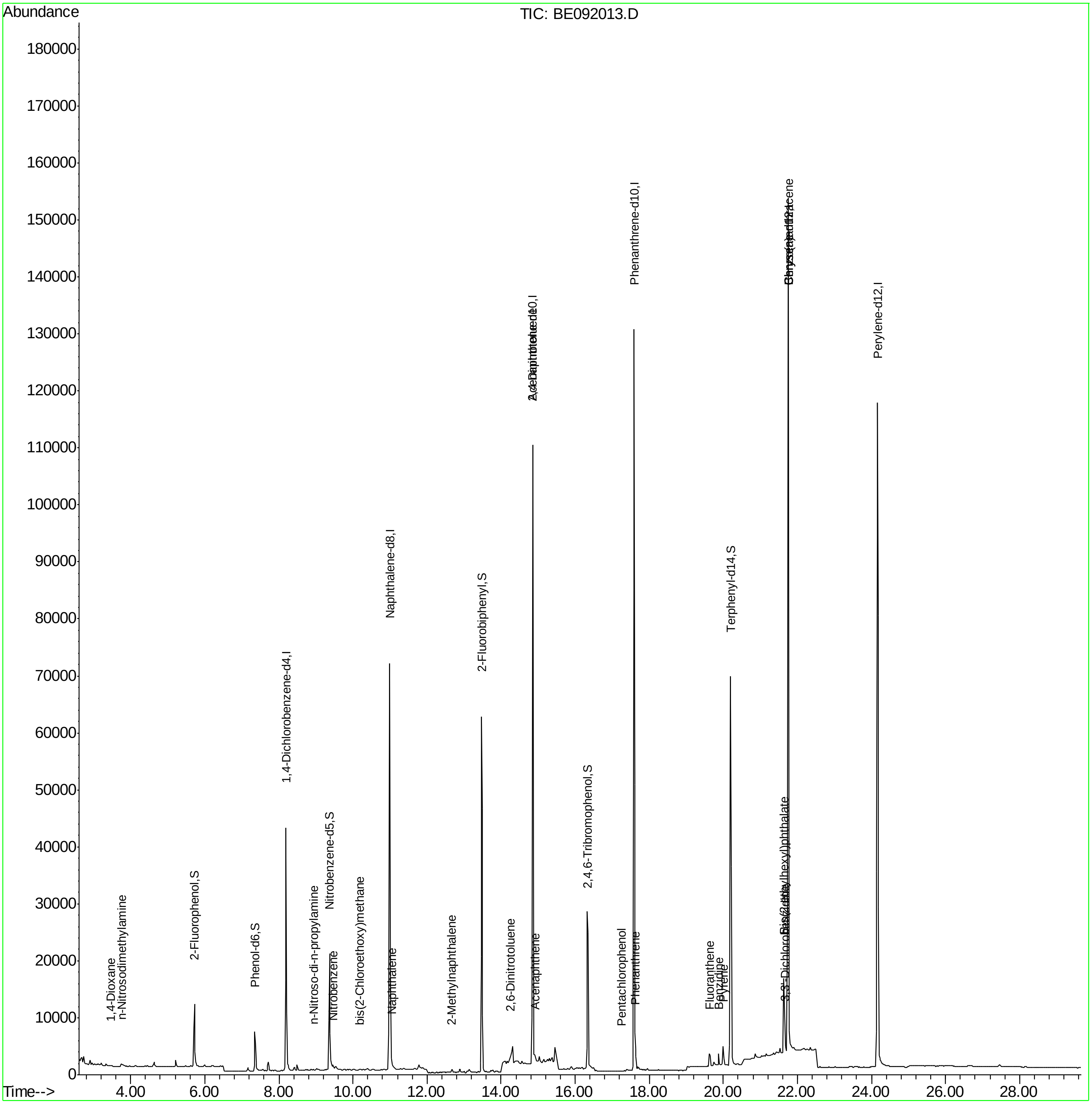
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

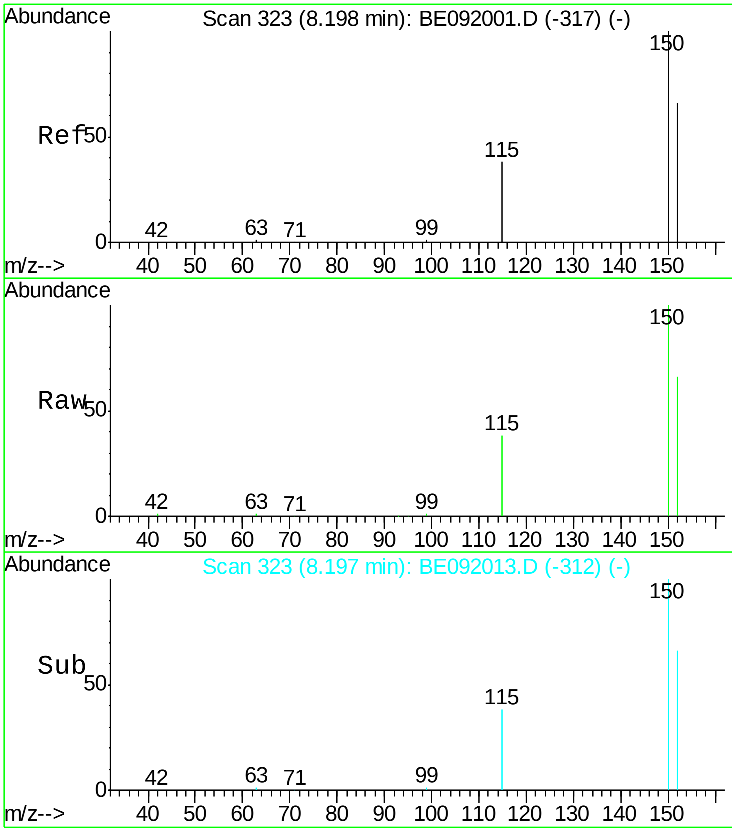
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE072216\
Data File : BE092013.D
Acq On : 22 Jul 2016 19:28
Operator : UM/SJ
Sample : H4120-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Quant Time: Jul 23 01:32:00 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE072216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 22 15:39:27 2016
Response via : Initial Calibration



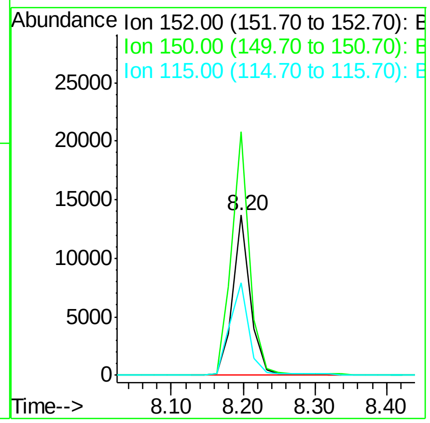
Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

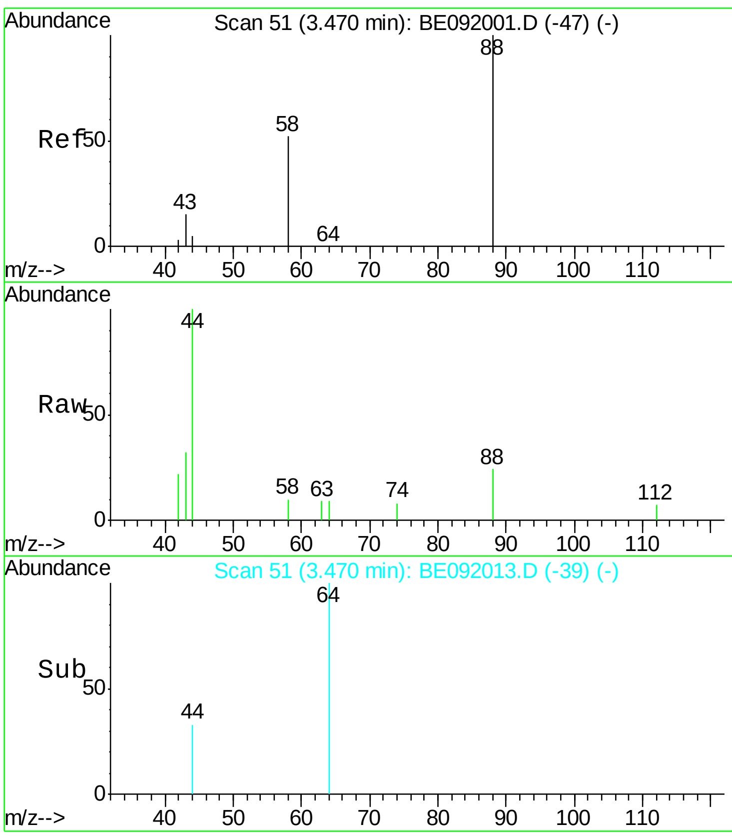


#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.20 min Scan# 323
Delta R.T. -0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:152 Resp: 22665

Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.9	185.9
115	58.1	48.3	72.5

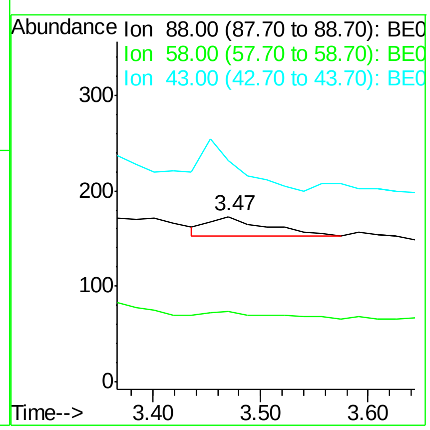


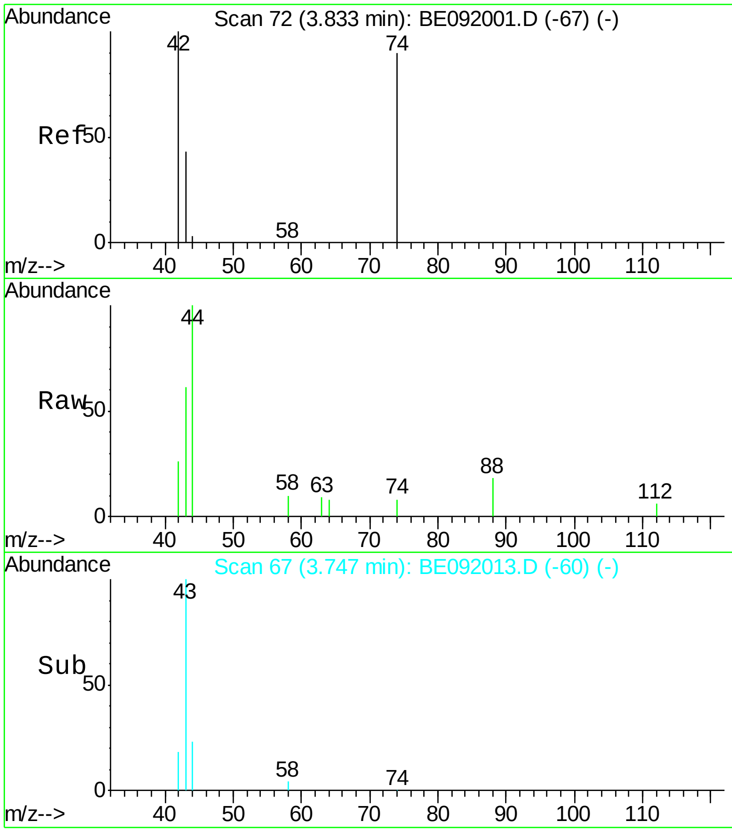


#2
1,4-Dioxane
Concen: 0.02 ng
RT: 3.47 min Scan# 51
Delta R.T. 0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion: 88 Resp: 72

Ion	Ratio	Lower	Upper
88	100		
58	51.4	63.0	94.4#
43	226.4	29.1	43.7#



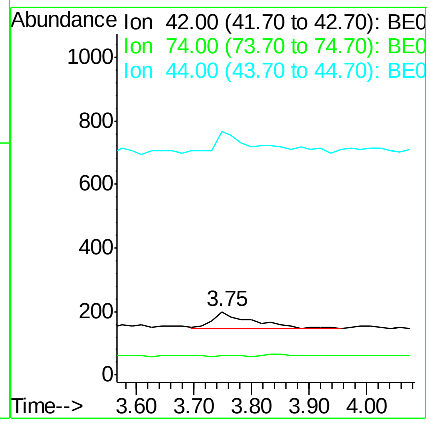


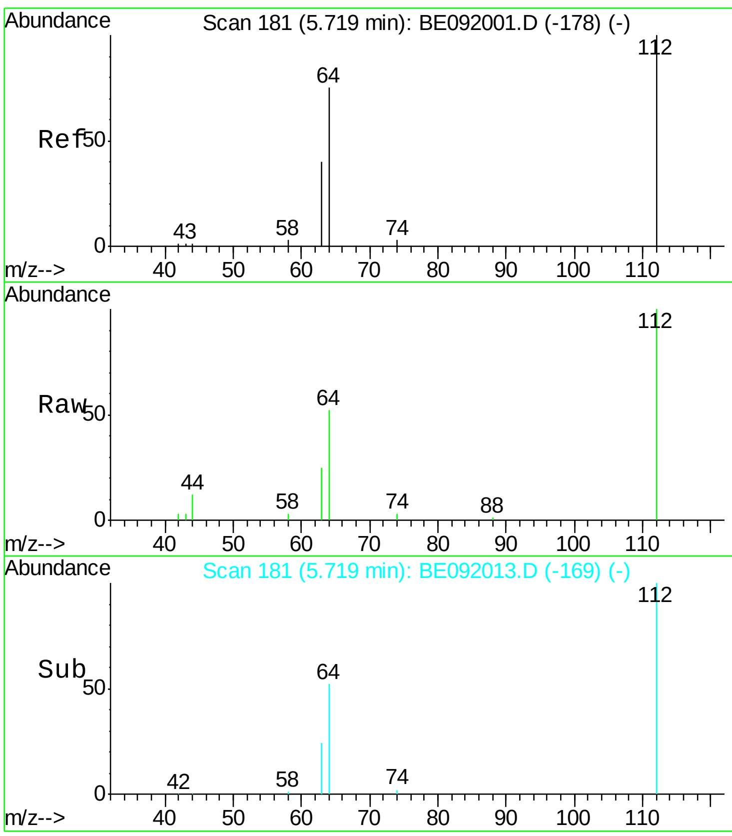
#3
n-Nitrosodimethylamine
Concen: 0.14 ng
RT: 3.75 min Scan# 67
Delta R.T. -0.08 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion: 42 Resp: 236

Ion	Ratio	Lower	Upper
42	100		
74	0.0	93.4	140.0#
44	126.7	5.0	7.6#

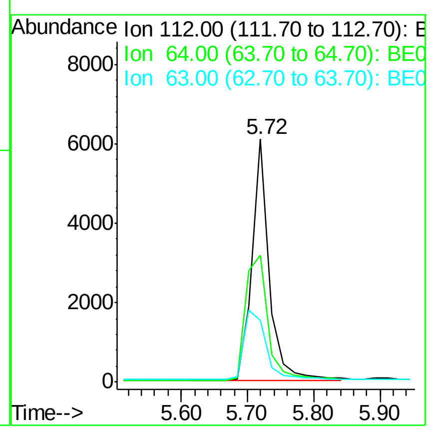


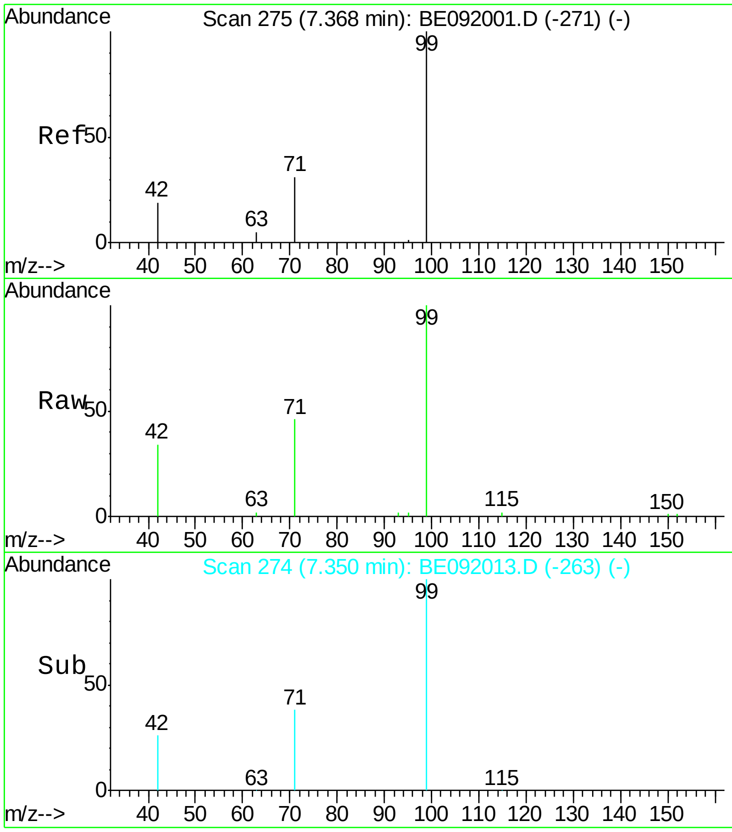


#4
2-Fluorophenol
Concen: 2.49 ng
RT: 5.72 min Scan# 181
Delta R.T. 0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:112 Resp: 10945

Ion	Ratio	Lower	Upper
112	100		
64	67.8	53.7	80.5
63	36.8	29.5	44.3



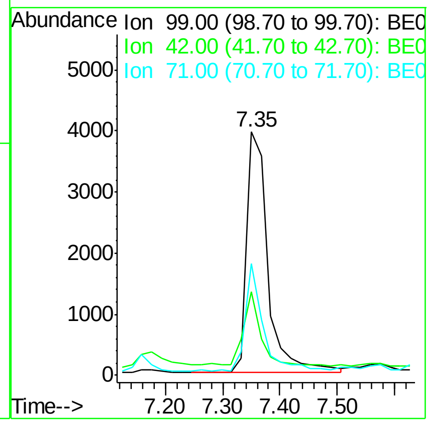


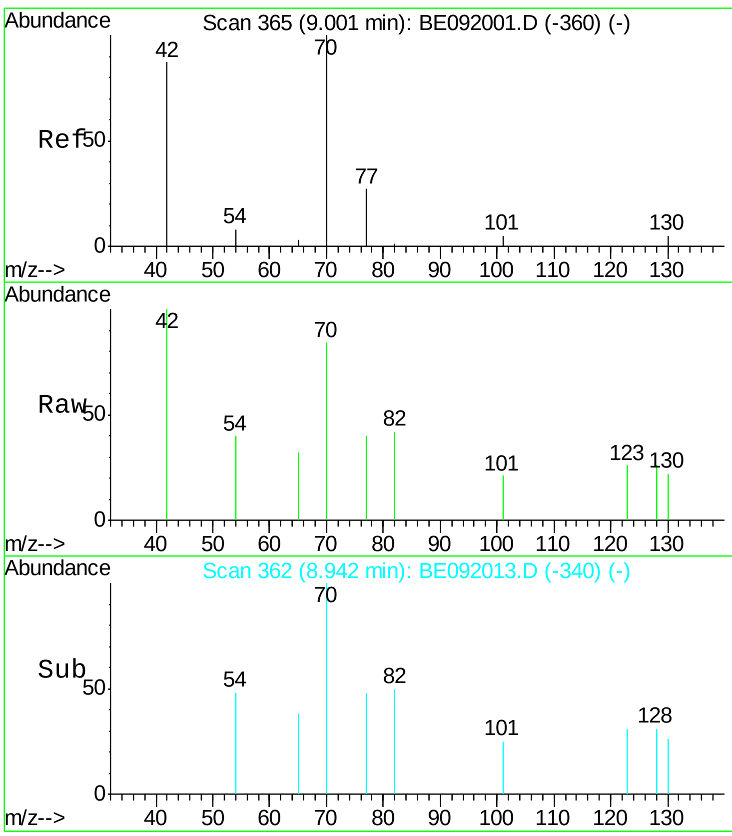
#5
Phenol-d6
Concen: 1.40 ng
RT: 7.35 min Scan# 274
Delta R.T. -0.02 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion: 99 Resp: 10137

Ion	Ratio	Lower	Upper
99	100		
42	24.4	19.6	29.4
71	38.3	28.1	42.1

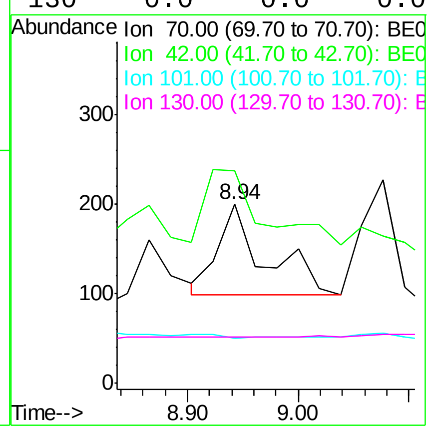


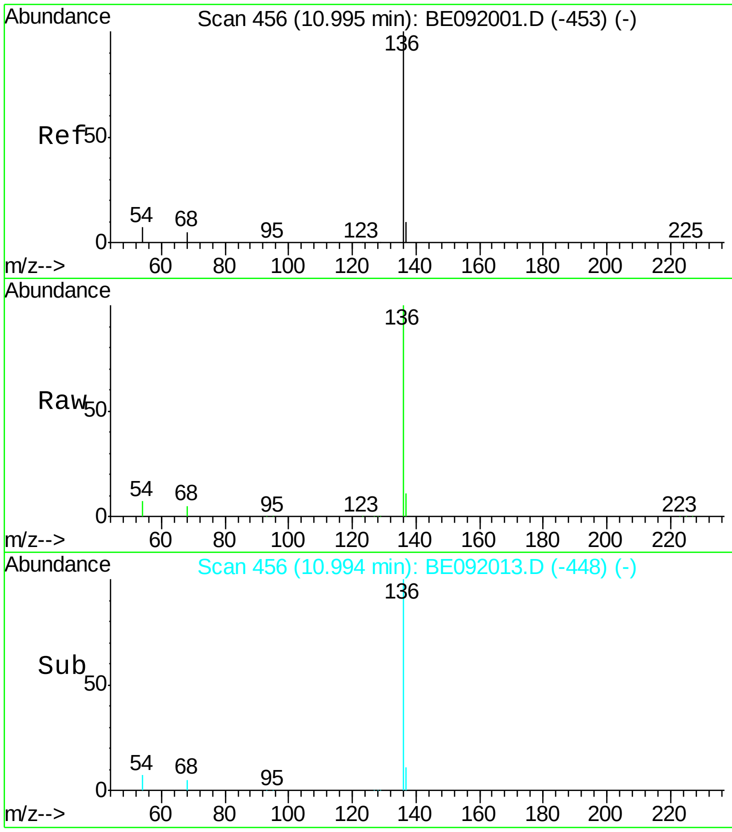


#7
n-Nitroso-di-n-propylamine
Concen: 0.05 ng
RT: 8.94 min Scan# 362
Delta R.T. -0.06 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion: 70 Resp: 296

Ion	Ratio	Lower	Upper
70	100		
42	102.7	58.4	87.6#
101	0.0	6.4	9.6#
130	0.0	0.0	0.0



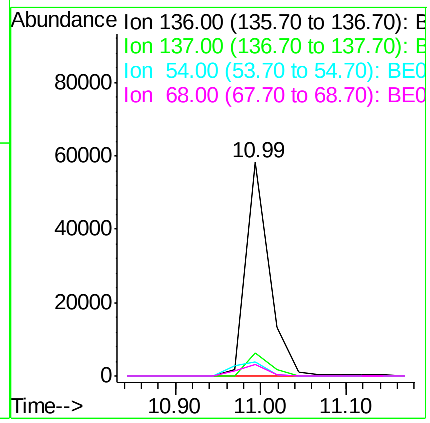


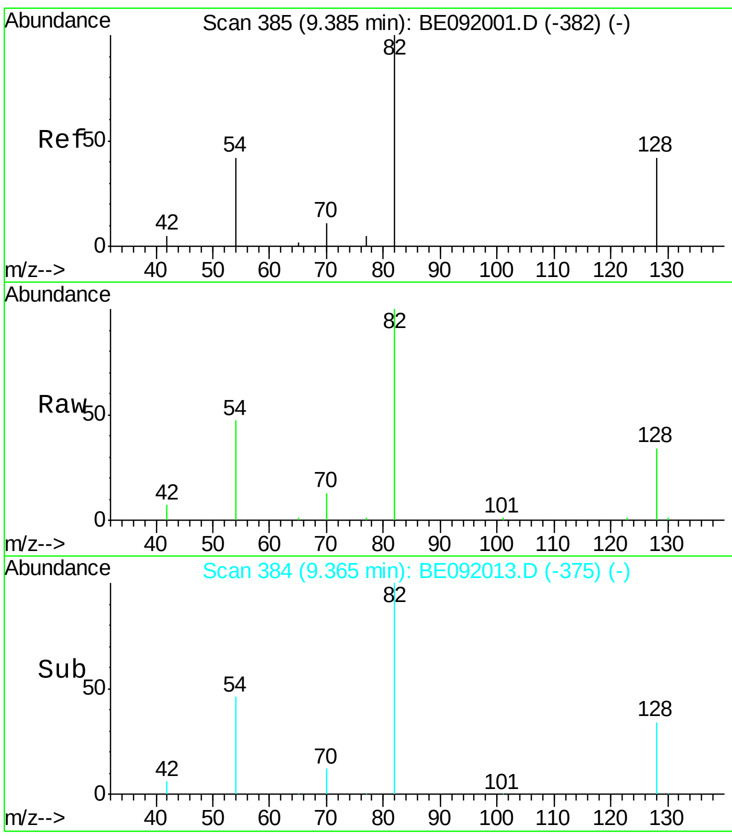
#8
Naphthalene-d8
Concen: 5.00 ng
RT: 10.99 min Scan# 456
Delta R.T. -0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:136 Resp: 112199

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.3	12.5
54	6.9	8.2	12.4#
68	5.3	5.9	8.9#

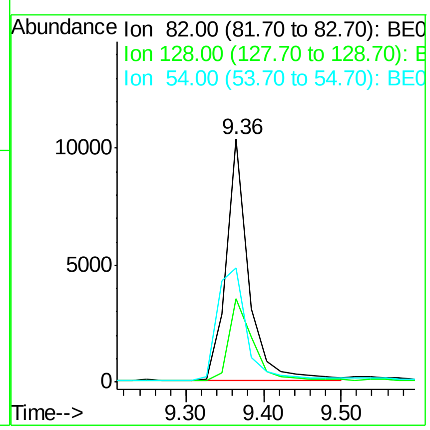


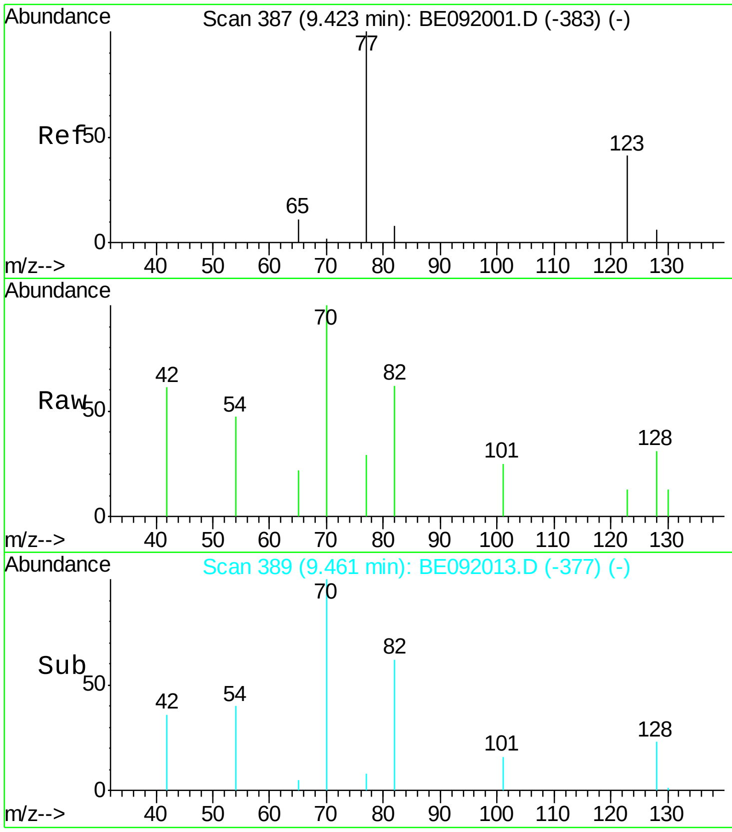


#9
Nitrobenzene-d5
Concen: 3.10 ng
RT: 9.36 min Scan# 384
Delta R.T. -0.02 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion: 82 Resp: 20911

Ion	Ratio	Lower	Upper
82	100		
128	34.3	39.5	59.3#
54	46.8	30.3	45.5#



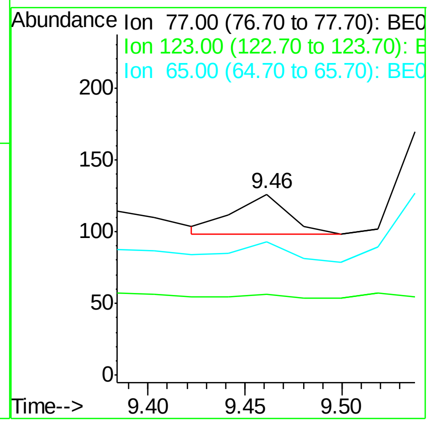


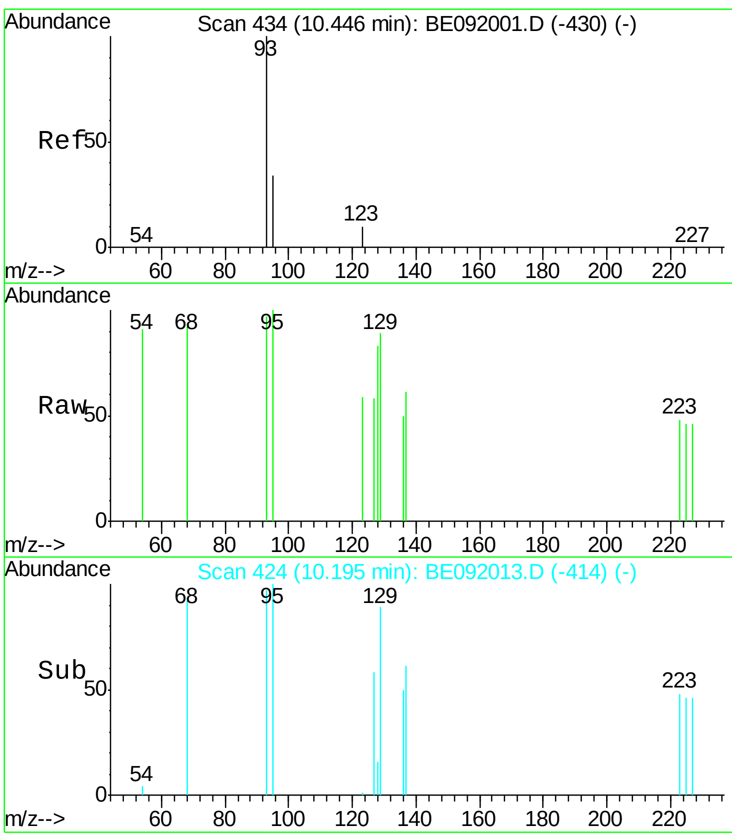
#10
Nitrobenzene
Concen: 0.13 ng
RT: 9.46 min Scan# 389
Delta R.T.   0.04 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion: 77 Resp: 55

Ion	Ratio	Lower	Upper
77	100		
123	0.0	0.0	0.0
65	45.5	11.1	16.7#

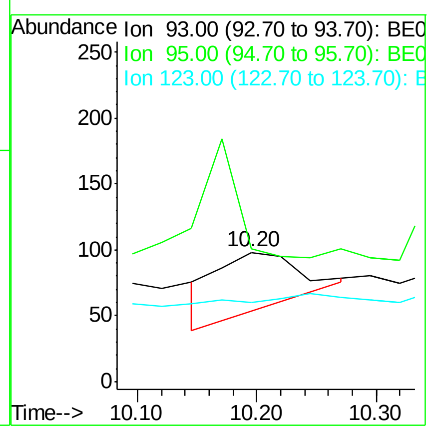


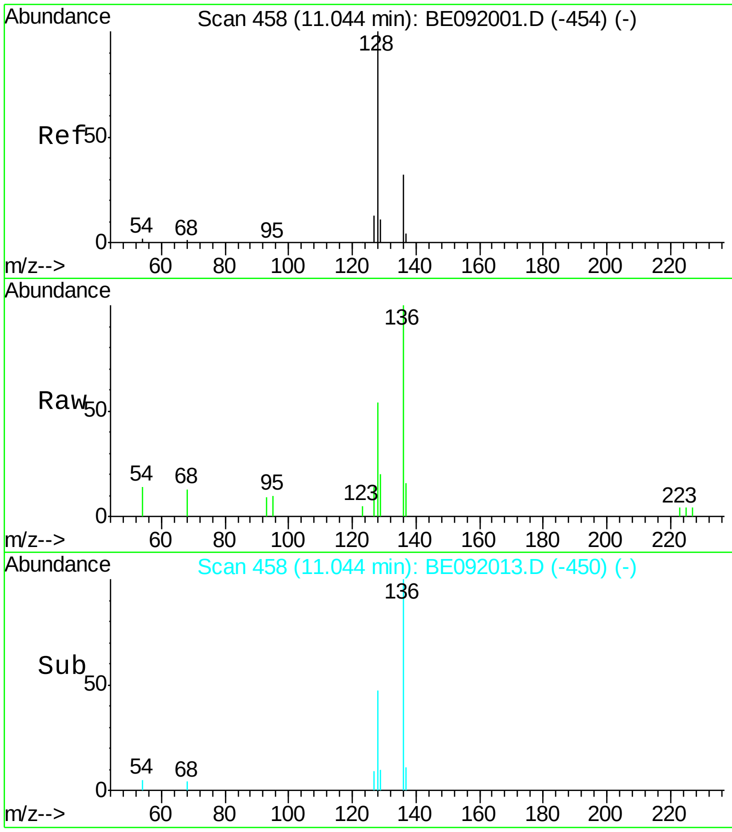


#11
bis(2-Chloroethoxy)methane
Concen: 0.03 ng
RT: 10.20 min Scan# 424
Delta R.T.   -0.25 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion: 93 Resp: 220

Ion	Ratio	Lower	Upper
93	100		
95	0.0	57.6	86.4#
123	0.0	100.2	150.4#



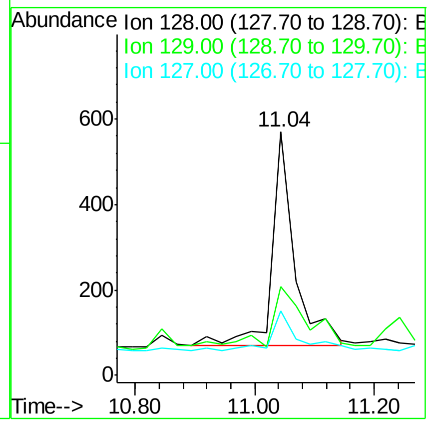


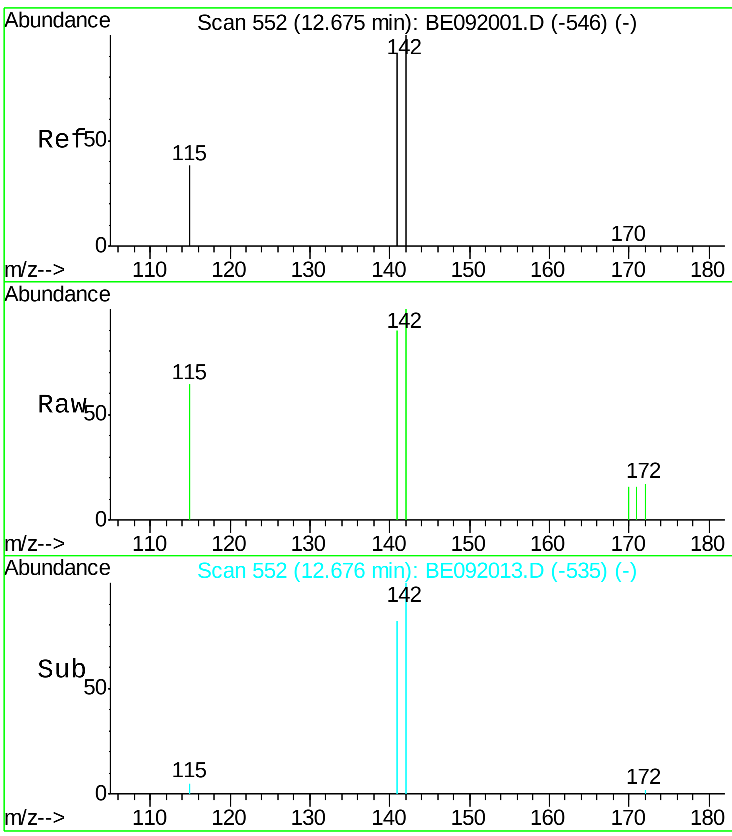
#12
Naphthalene
Concen: 0.05 ng
RT: 11.04 min Scan# 458
Delta R.T. -0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:128 Resp: 1340

Ion	Ratio	Lower	Upper
128	100		
129	36.3	10.4	15.6#
127	26.5	10.2	15.2#

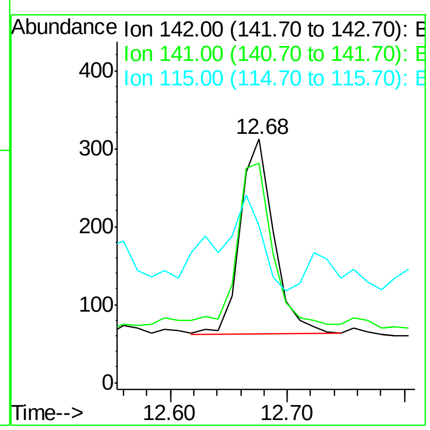


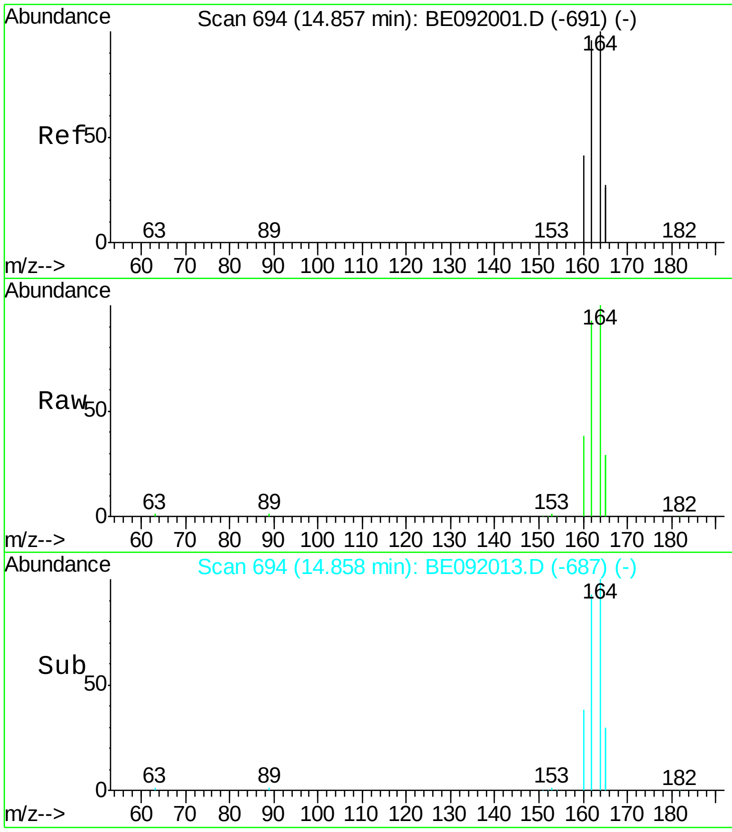


#14
2-Methylnaphthalene
Concen: 0.03 ng
RT: 12.68 min Scan# 552
Delta R.T. 0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:142 Resp: 494

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.9	107.9
115	64.4	29.9	44.9#



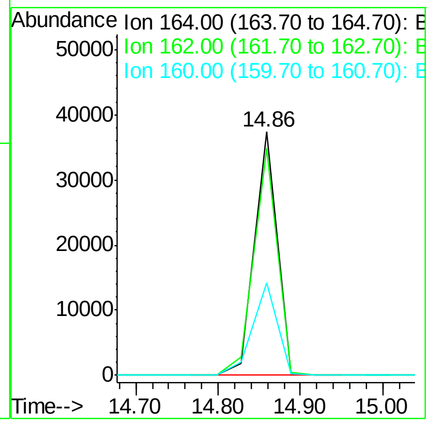


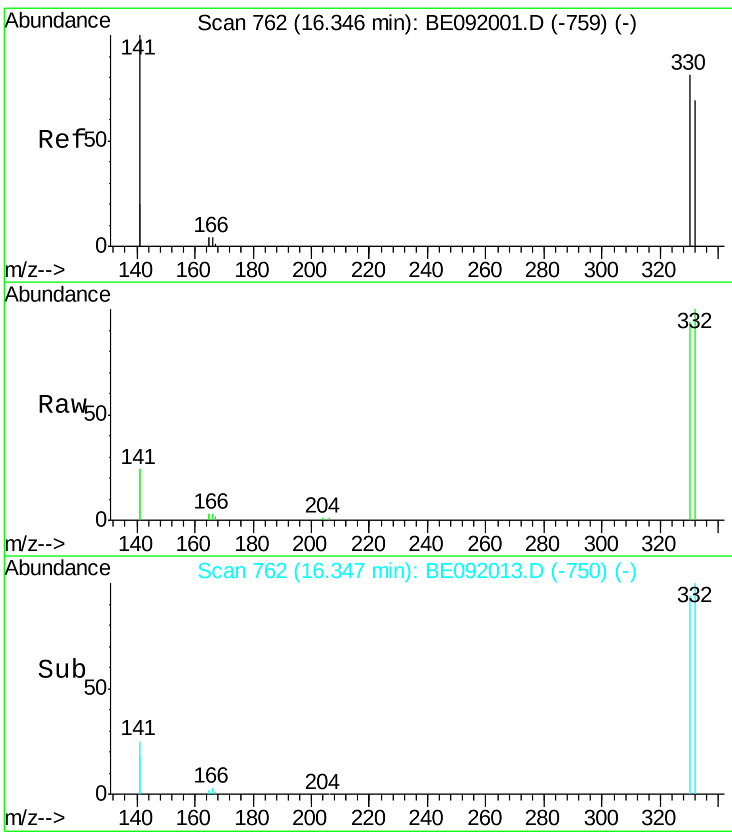
#15
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.86 min   Scan# 694
Delta R.T.   0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016   19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:164 Resp: 71301

Ion	Ratio	Lower	Upper
164	100		
162	93.4	71.8	107.8
160	38.1	28.0	42.0

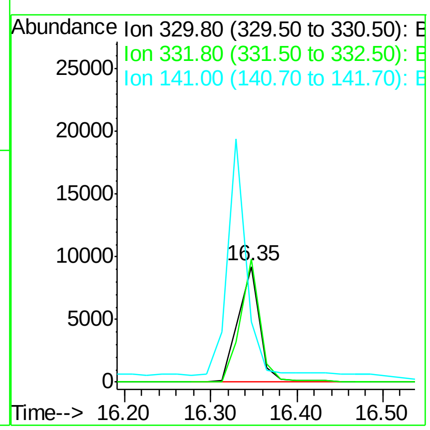


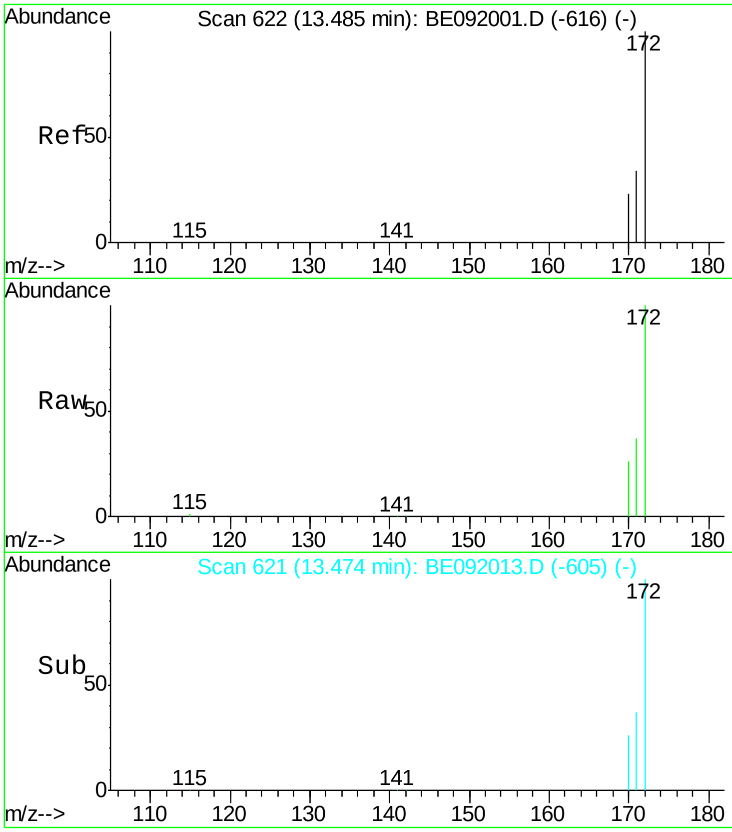


#16
2,4,6-Tribromophenol
Concen: 6.41 ng
RT: 16.35 min   Scan# 762
Delta R.T.   0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016   19:28

Tgt Ion:330 Resp: 15766

Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.0	115.6
141	189.6	138.4	207.6



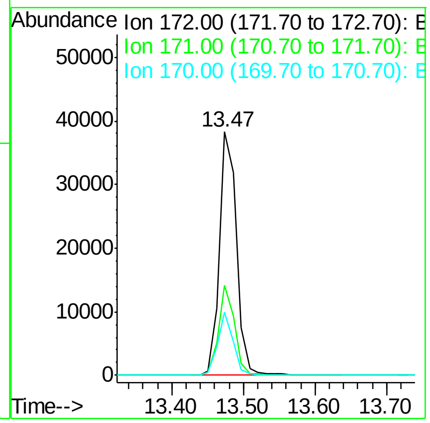


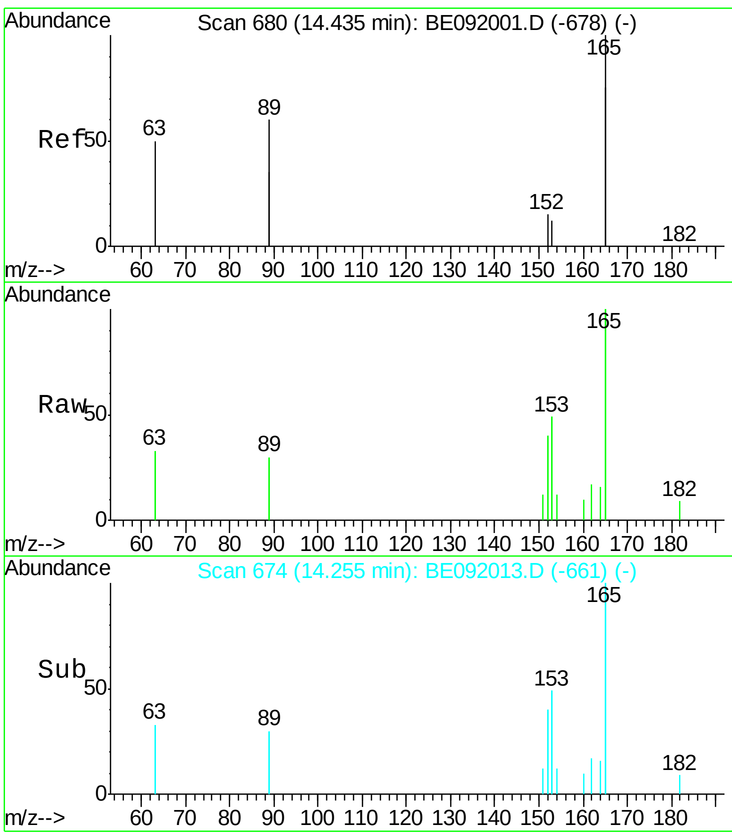
#17
2-Fluorobiphenyl
Concen: 3.37 ng
RT: 13.47 min   Scan# 621
Delta R.T.   -0.01 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:172 Resp: 63124

Ion	Ratio	Lower	Upper
172	100		
171	36.8	24.3	36.5#
170	26.2	14.9	22.3#

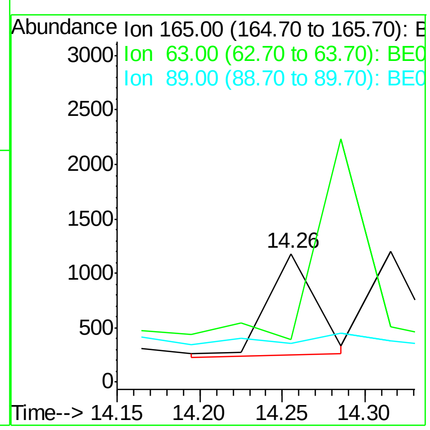


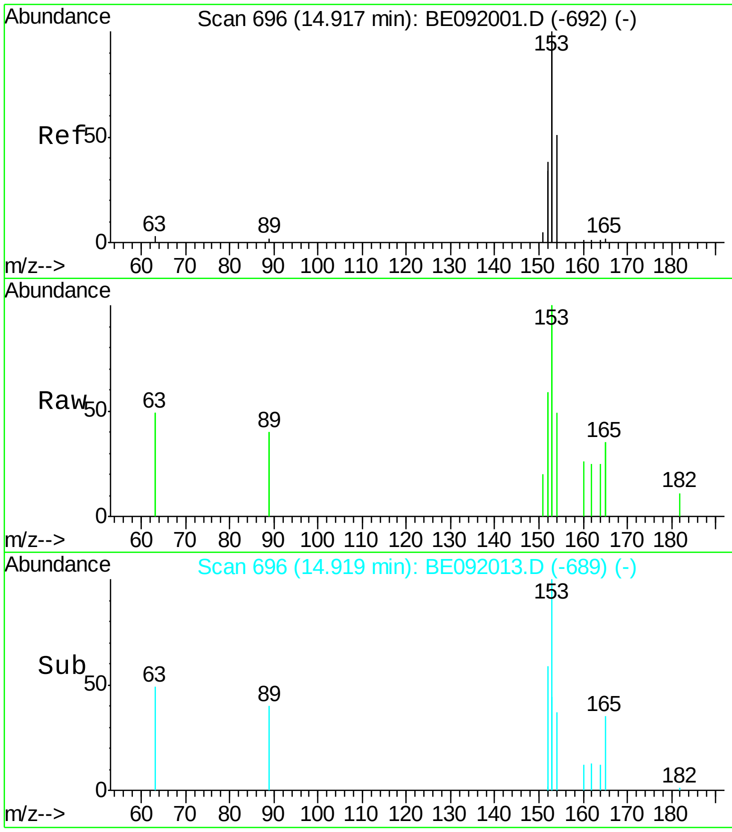


#19
2,6-Dinitrotoluene
Concen: 0.26 ng
RT: 14.26 min   Scan# 674
Delta R.T.   -0.18 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:165 Resp: 1890

Ion	Ratio	Lower	Upper
165	100		
63	0.0	65.9	98.9#
89	0.0	59.1	88.7#



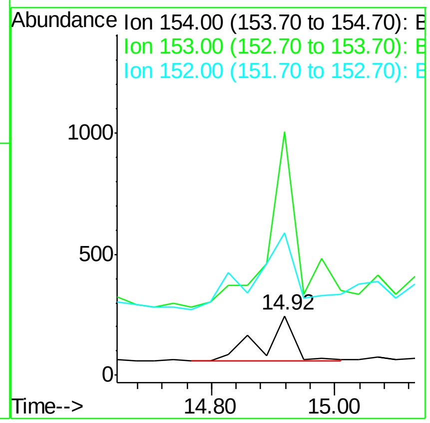


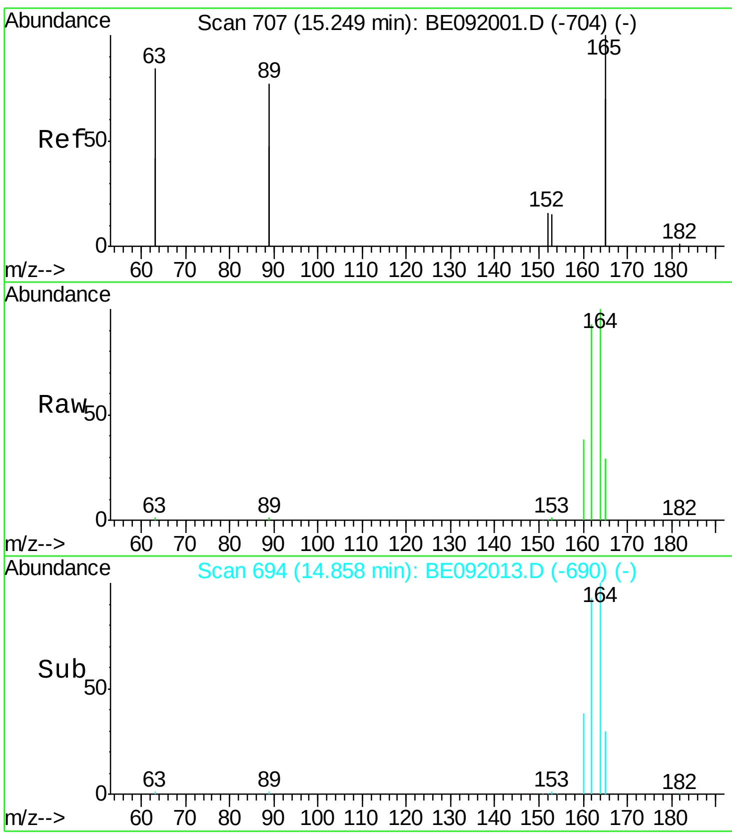
#20
Acenaphthene
Concen: 0.04 ng
RT: 14.92 min Scan# 696
Delta R.T. 0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:154 Resp: 668

Ion	Ratio	Lower	Upper
154	100		
153	390.6	88.1	132.1#
152	236.7	44.2	66.2#

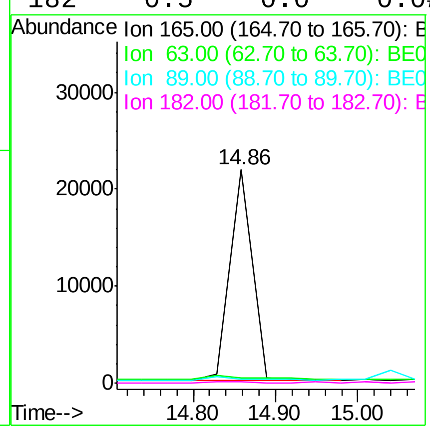


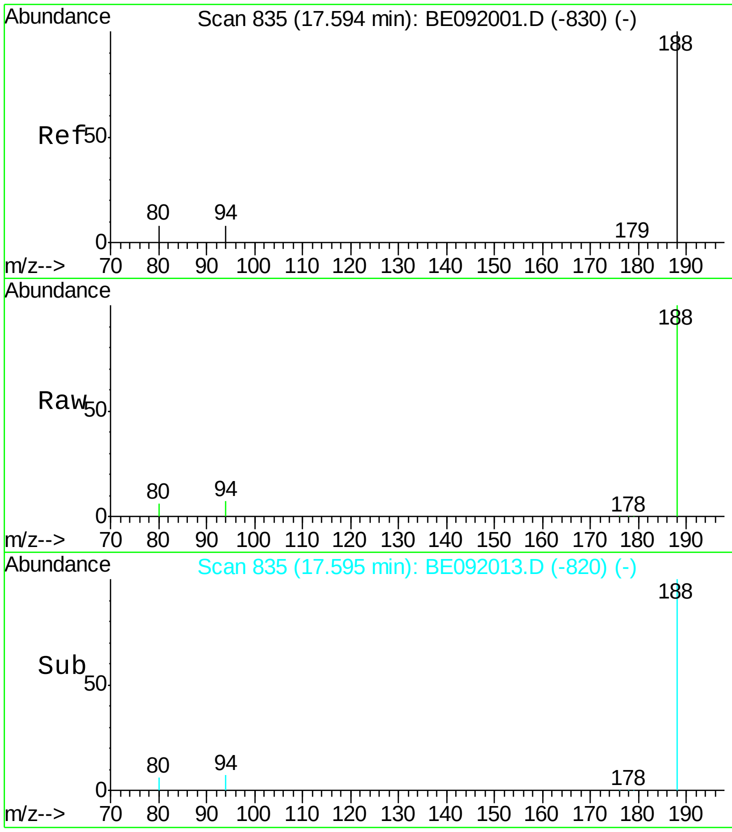


#21
2,4-Dinitrotoluene
Concen: 2.22 ng
RT: 14.86 min Scan# 694
Delta R.T. -0.39 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:165 Resp: 41495

Ion	Ratio	Lower	Upper
165	100		
63	0.0	0.0	0.0
89	0.0	99.8	149.8#
182	0.5	0.0	0.0#



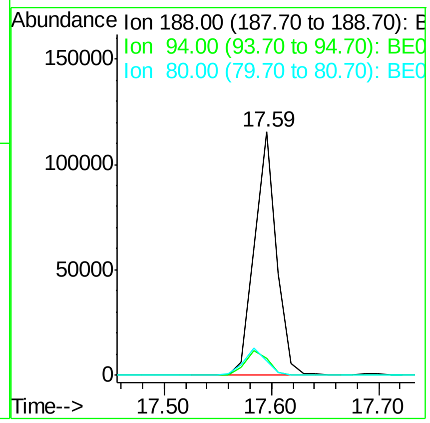


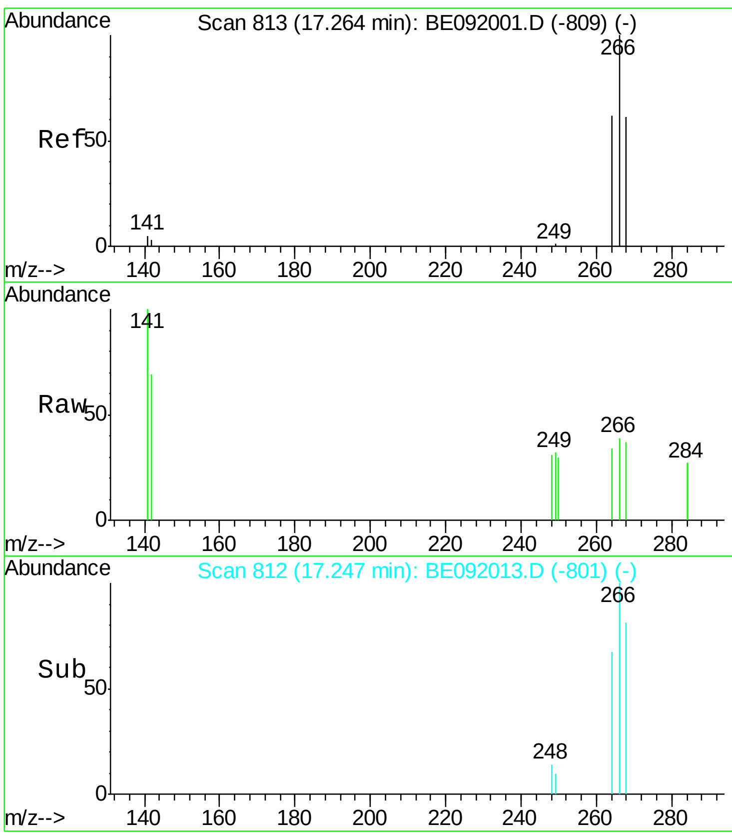
#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.59 min Scan# 835
Delta R.T. 0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:188 Resp: 164522

Ion	Ratio	Lower	Upper
188	100		
94	6.8	4.1	6.1#
80	6.1	3.4	5.2#

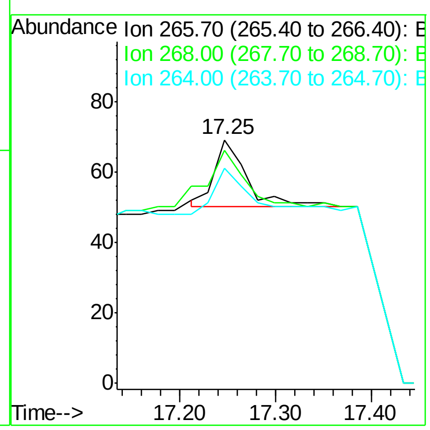


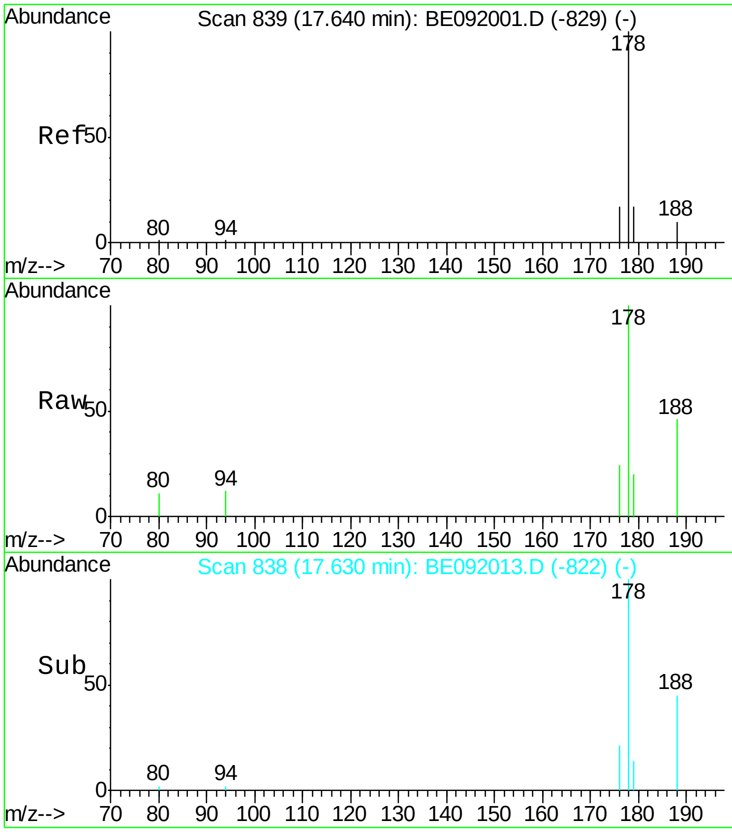


#27
Pentachlorophenol
Concen: 0.23 ng
RT: 17.25 min Scan# 812
Delta R.T. -0.02 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:266 Resp: 45

Ion	Ratio	Lower	Upper
266	100		
268	95.7	60.5	90.7#
264	88.4	51.0	76.4#



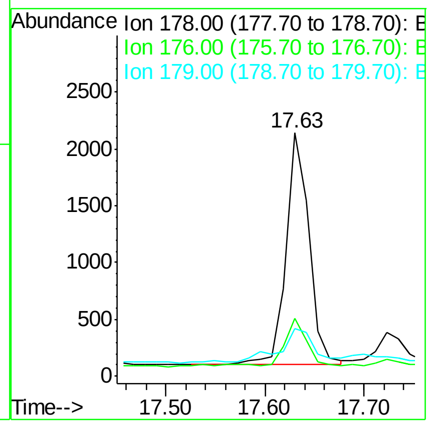


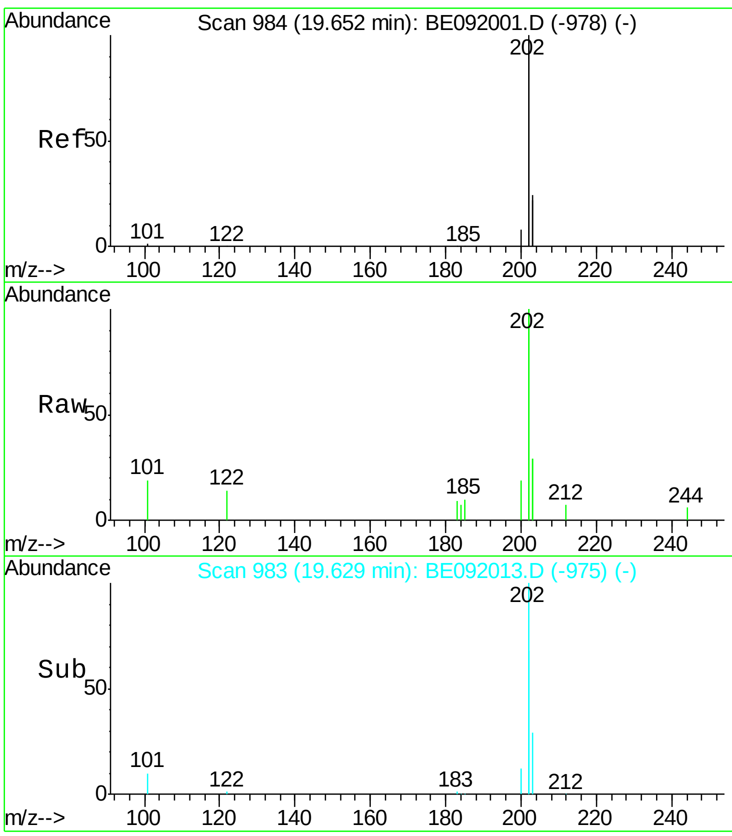
#28
Phenanthrene
Concen: 0.08 ng
RT: 17.63 min Scan# 838
Delta R.T. -0.01 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument : BNA_E
ClientSampleId : GW-04-5.5-13.0

Tgt Ion:178 Resp: 3283

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	21.4	12.9	19.3#

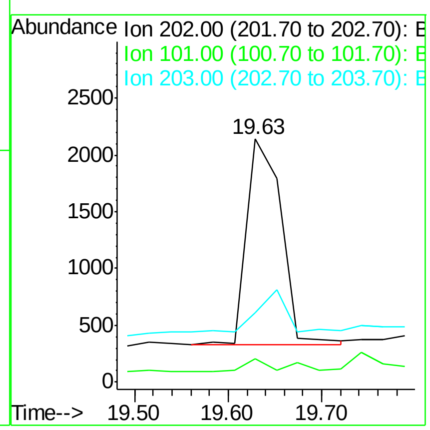




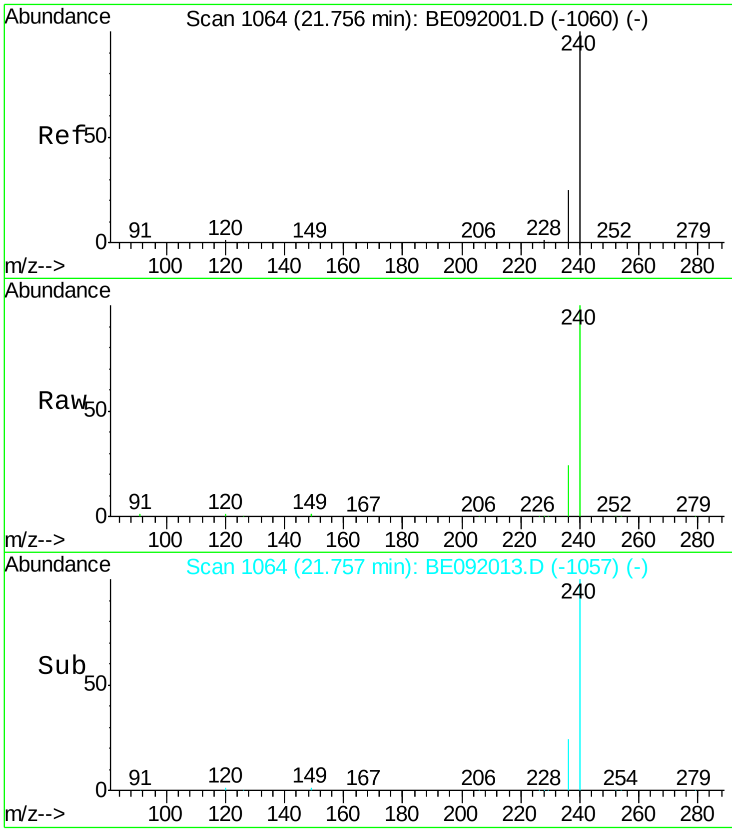
#30
Fluoranthene
Concen: 0.03 ng
RT: 19.63 min Scan# 983
Delta R.T. -0.02 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:202 Resp: 4738

Ion	Ratio	Lower	Upper
202	100		
101	6.4	9.4	14.0#
203	0.0	14.3	21.5#



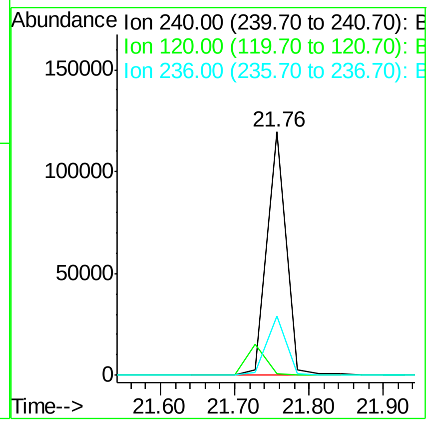
Instrument : BNA_E
ClientSampleId : GW-04-5.5-13.0

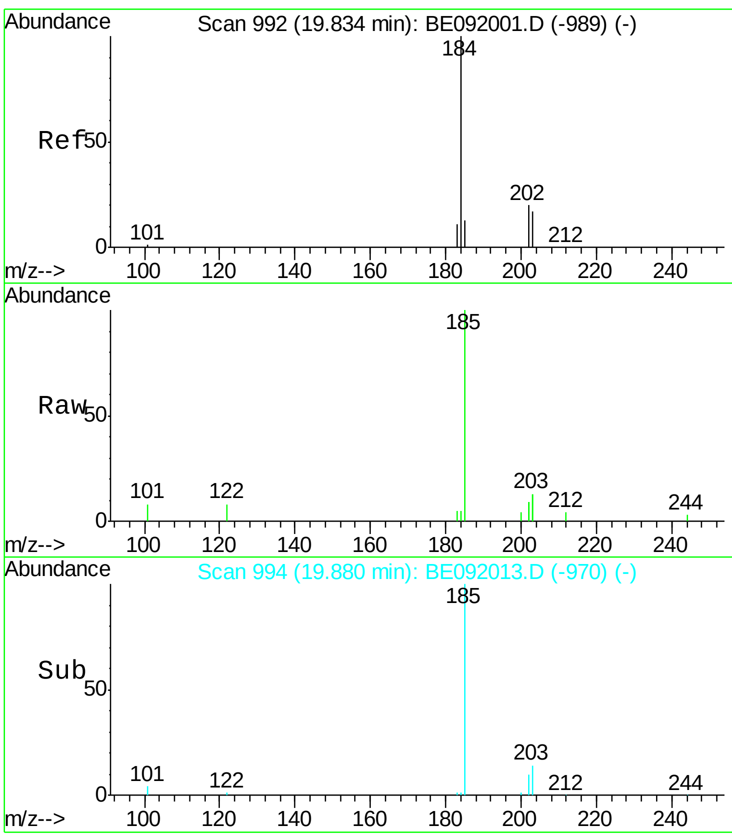


#31
Chrysene-d12
Concen: 5.00 ng
RT: 21.76 min Scan# 1064
Delta R.T. 0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:240 Resp: 216785

Ion	Ratio	Lower	Upper
240	100		
120	0.8	1.2	1.8#
236	24.3	19.8	29.8

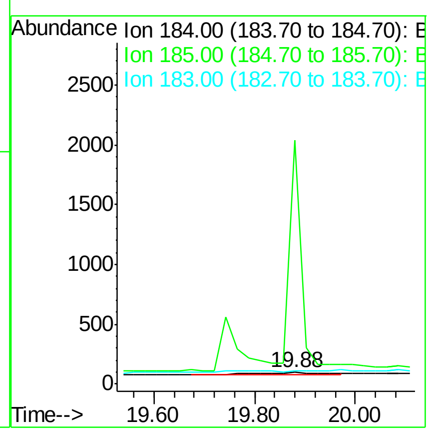


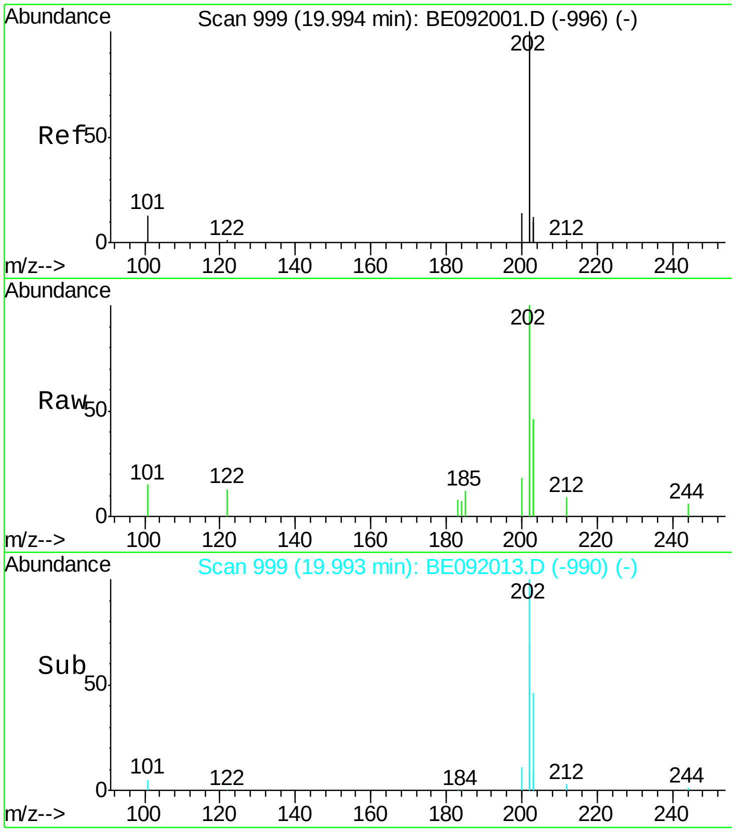


#32
Benzidine
Concen: 0.20 ng
RT: 19.88 min Scan# 994
Delta R.T. 0.05 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:184 Resp: 219

Ion	Ratio	Lower	Upper
184	100		
185	2058.6	11.4	17.2#
183	113.1	11.8	17.6#



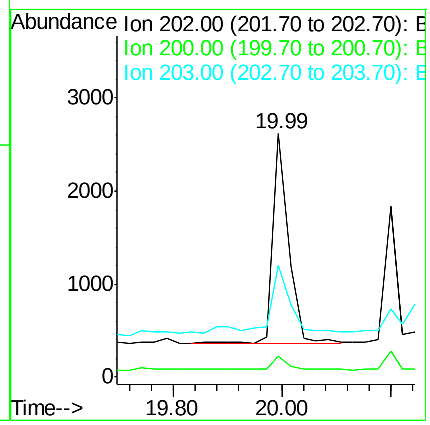


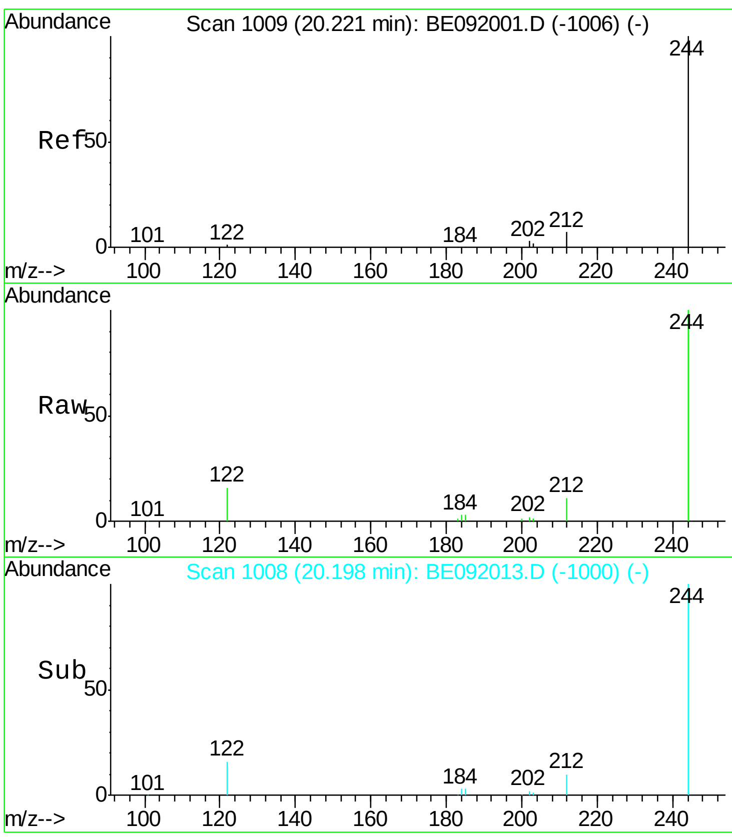
#33
Pyrene
Concen: 0.03 ng
RT: 19.99 min   Scan# 999
Delta R.T.   -0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:202 Resp: 4588

Ion	Ratio	Lower	Upper
202	100		
200	5.8	16.9	25.3#
203	35.2	14.1	21.1#

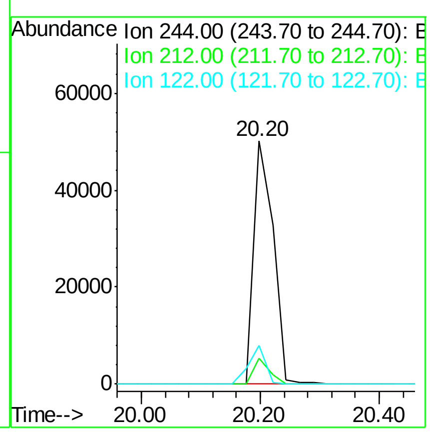


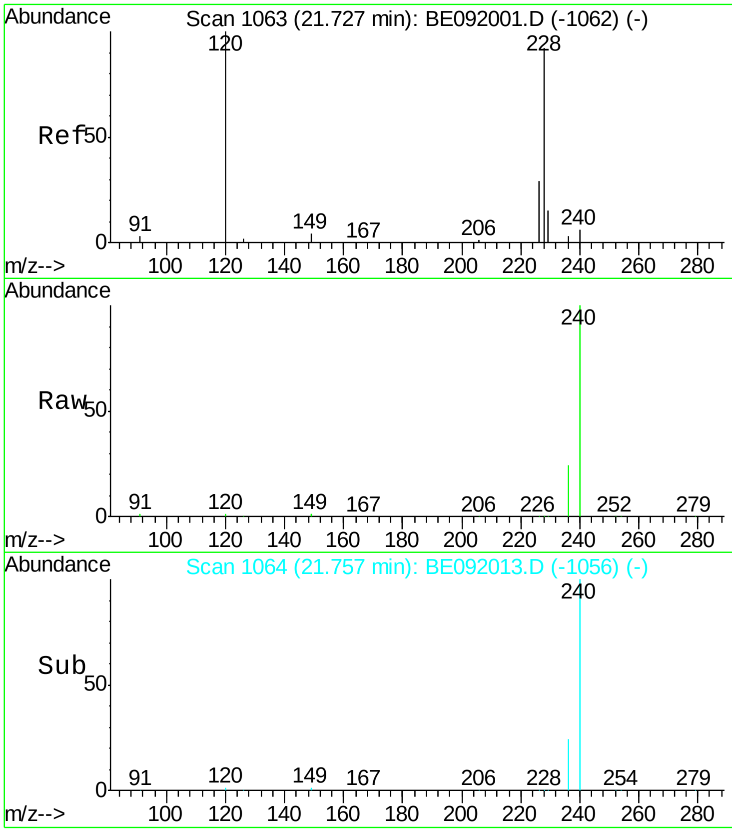


#34
Terphenyl-d14
Concen: 5.29 ng
RT: 20.20 min   Scan# 1008
Delta R.T.   -0.02 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:244 Resp: 115236

Ion	Ratio	Lower	Upper
244	100		
212	10.5	6.5	9.7#
122	15.9	2.9	4.3#



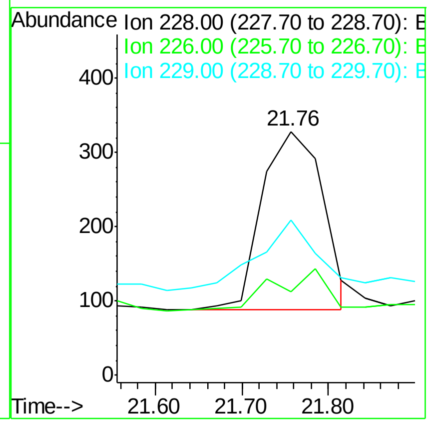


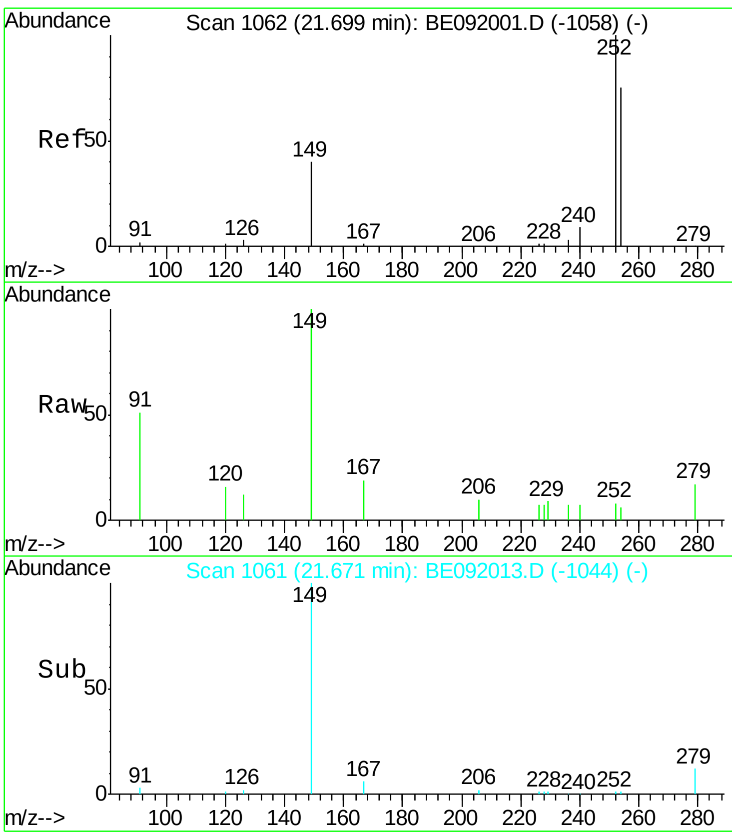
#35
Benzo(a)anthracene
Concen: 0.02 ng
RT: 21.76 min Scan# 1064
Delta R.T. 0.03 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:228 Resp: 1184

Ion	Ratio	Lower	Upper
228	100		
226	34.5	21.0	31.4#
229	63.7	15.8	23.8#

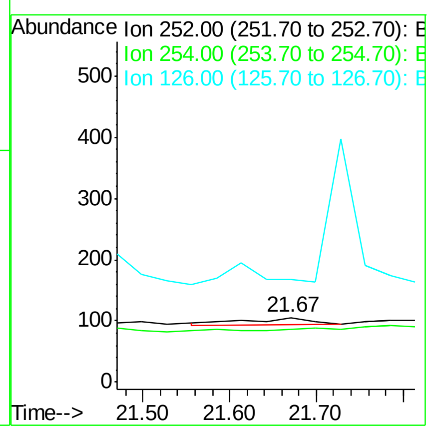


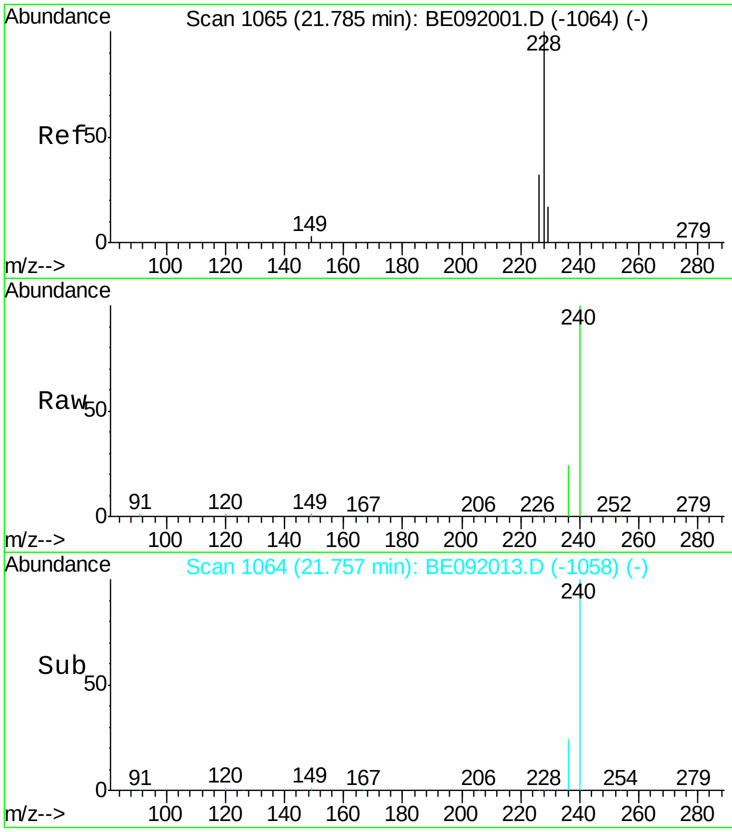


#36
3,3'-Dichlorobenzidine
Concen: 0.03 ng
RT: 21.67 min Scan# 1061
Delta R.T. -0.03 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:252 Resp: 55

Ion	Ratio	Lower	Upper
252	100		
254	82.9	61.5	92.3
126	159.0	2.5	3.7#



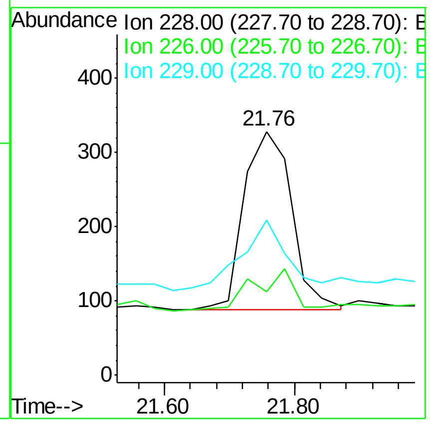


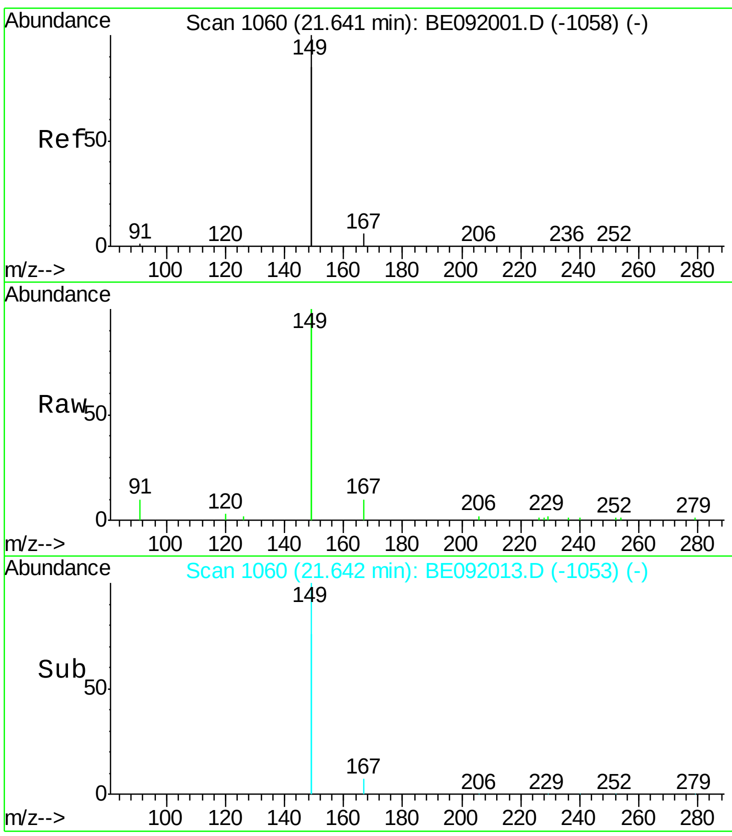
#37
Chrysene
Concen: 0.02 ng
RT: 21.76 min Scan# 1064
Delta R.T. -0.03 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:228 Resp: 1220

Ion	Ratio	Lower	Upper
228	100		
226	34.5	27.0	40.6
229	63.7	13.8	20.8#

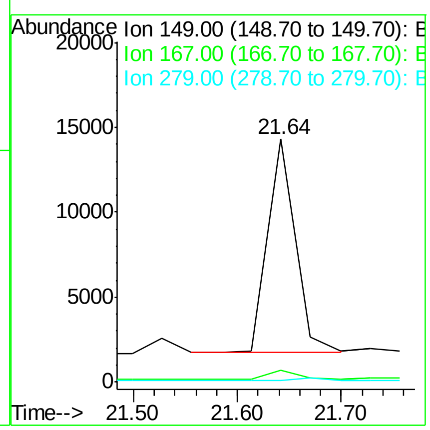


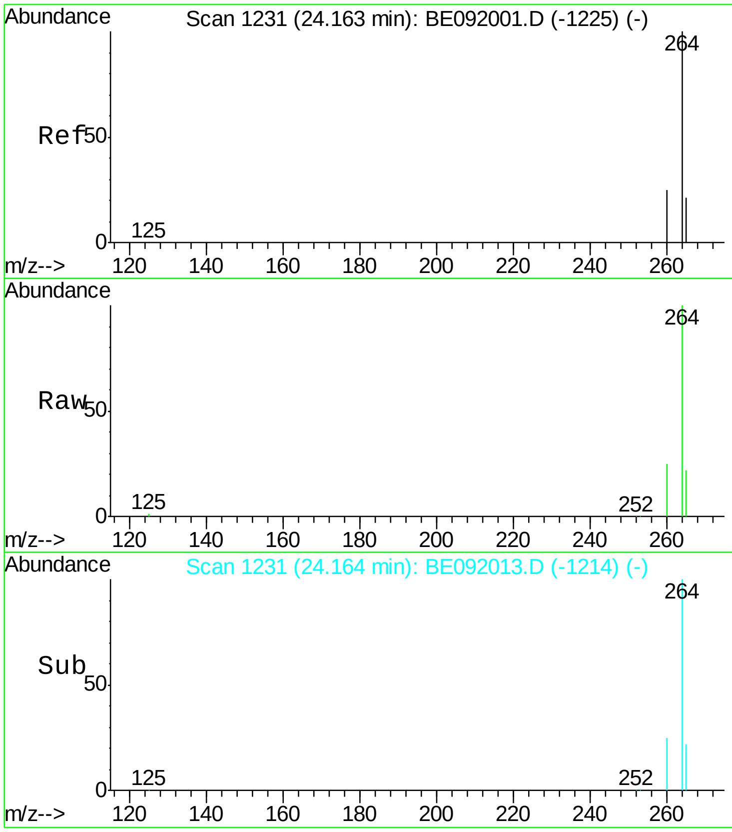


#38
Bis(2-ethylhexyl)phthalate
Concen: 0.62 ng
RT: 21.64 min Scan# 1060
Delta R.T. 0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Tgt Ion:149 Resp: 23669

Ion	Ratio	Lower	Upper
149	100		
167	4.3	0.0	0.0#
279	0.0	0.0	0.0





#40
Perylene-d12
Concen: 5.00 ng
RT: 24.16 min Scan# 1231
Delta R.T. 0.00 min
Lab File: BE092013.D
Acq: 22 Jul 2016 19:28

Instrument :
BNA_E
ClientSampleId :
GW-04-5.5-13.0

Tgt Ion:264 Resp: 177803

Ion	Ratio	Lower	Upper
264	100		
260	24.8	20.3	30.5
265	22.3	17.6	26.4