Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE041116\
Data File : BE091629.D
Acq On : 11 Apr 2016 15:36
Operator : UM/SJ
Sample : PB89639BS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB89639BS

Manual Integrations APPROVED
Sohil
4/12/2016 5:31:40 PM

Quant Time: Apr 12 02:10:40 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE040816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 08 16:48:14 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	43127	5.00	ng		-0.02
7) Naphthalene-d8	10.59	136	215372	5.00	ng		0.00
13) Acenaphthene-d10	14.42	164	134716	5.00	ng		0.00
19) Phenanthrene-d10	17.16	188	320856	5.00	ng		0.00
26) Chrysene-d12	21.31	240	427765	5.00	ng		0.00
35) Perylene-d12	23.75	264	347339	5.00	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.41	112	69139	6.72	ng		0.00
5) Phenol-d6	6.97	99	104808	7.64	ng		0.00
8) Nitrobenzene-d5	8.96	82	47209	3.77	ng		0.00
14) 2,4,6-Tribromophenol	15.90	330	38015	7.72	ng		-0.01
15) 2-Fluorobiphenyl	13.05	172	142433	3.80	ng		0.00
29) Terphenyl-d14	19.76	244	213149	3.99	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.35	88	16160	3.39	ng	#	89
3) n-Nitrosodimethylamine	3.65	42	25096	3.79	ng	#	95
6) bis(2-Chloroethyl)ether	7.23	93	46319	3.89	ng	#	76
9) Nitrobenzene	8.99	77	51464	3.33	ng		94
10) Naphthalene	10.63	128	165183	3.72	ng		98
11) Hexachlorobutadiene	10.92	225	25201	3.86	ng		97
12) 2-Methylnaphthalene	12.24	142	119052	4.20	ng		98
16) Acenaphthylene	14.14	152	205294	3.93	ng	#	86
17) Acenaphthene	14.47	154	130017	3.93	ng		93
18) Fluorene	15.46	166	160459	3.88	ng		99
20) 4-Bromophenyl-phenylether	16.34	248	44547	3.94	ng		96
21) Hexachlorobenzene	16.46	284	46361	3.95	ng		98
22) Pentachlorophenol	16.79	266	46994	7.68	ng	#	86
23) Phenanthrene	17.19	178	290099	3.96	ng		99
24) Anthracene	17.29	178	273904	4.22	ng		99
25) Fluoranthene	19.21	202	308805	3.99	ng		98
27) Benzidine	19.38	184	119949	3.00	ng	#	75
28) Pyrene	19.55	202	343050	4.01	ng		99
30) Benzo(a)anthracene	21.29	228	384211m	4.01	ng		
31) 3,3'-Dichlorobenzidine	21.24	252	64738	1.06	ng	#	73
32) Chrysene	21.34	228	330990m	3.81	ng		
33) Bis(2-ethylhexyl)phthalate	21.22	149	110096	1.78	ng	#	80
34) Indeno(1,2,3-cd)pyrene	26.32	276	358451	3.70	ng		97
36) Benzo(b)fluoranthene	23.00	252	324245	4.02	ng		97
37) Benzo(k)fluoranthene	23.06	252	349656m	4.40	ng		
38) Benzo(a)pyrene	23.65	252	311505	4.16	ng	#	97
39) Dibenzo(a,h)anthracene	26.34	278	300977	4.08	ng		96
40) Benzo(g,h,i)perylene	27.10	276	300943	3.96	ng		97

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

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Manual Integrations APPROVED
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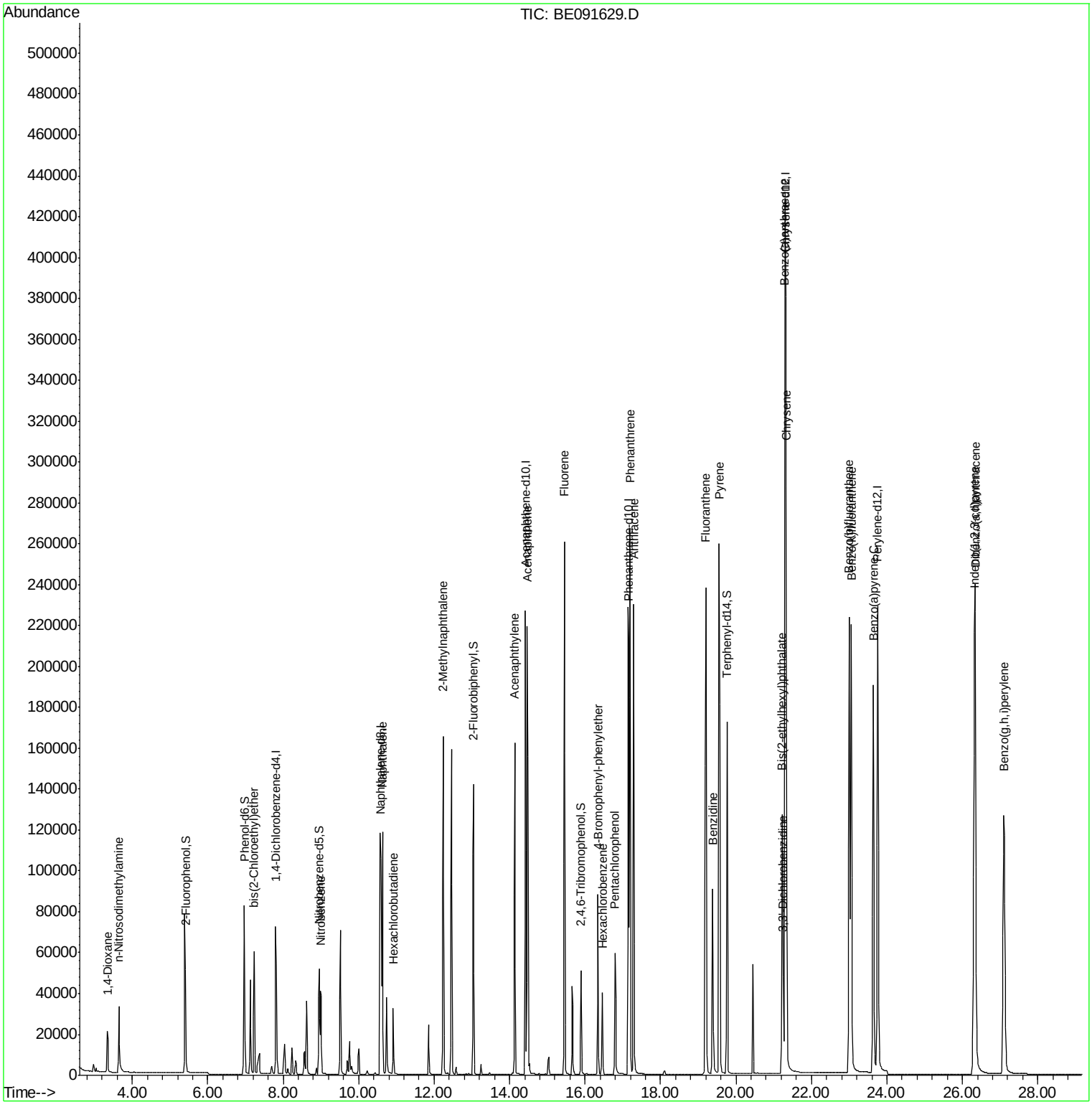
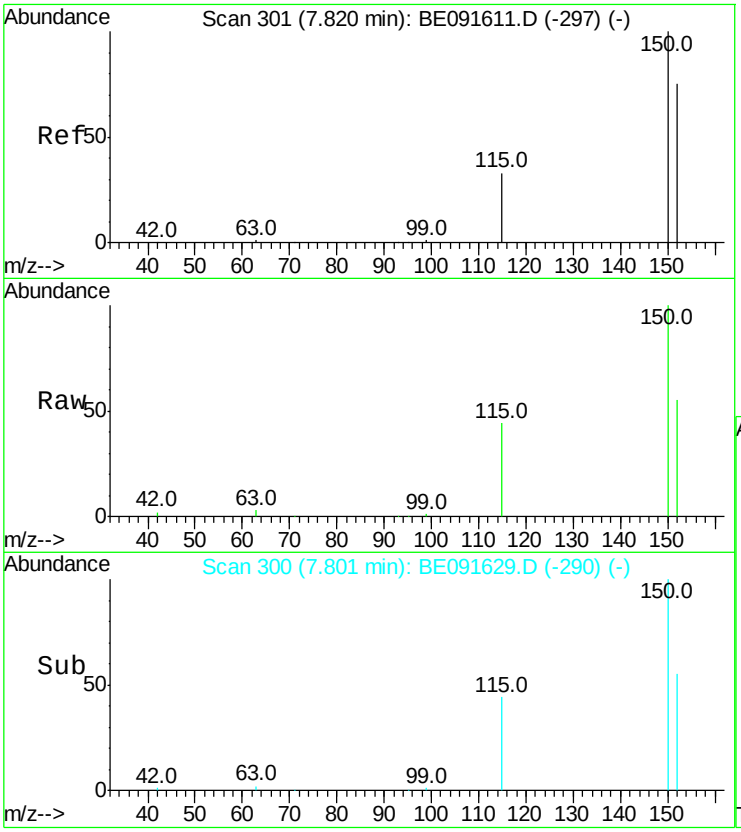
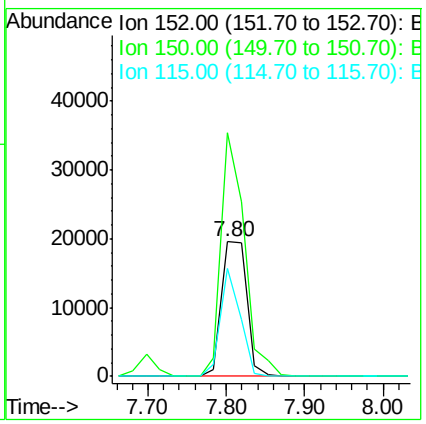




#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.80 min Scan# 300
Delta R.T. -0.02 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:152 Resp: 43127

Ion	Ratio	Lower	Upper
152	100		
150	181.1	122.6	183.8
115	80.3	52.8	79.2#



Instrument :
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ClientSampleId :
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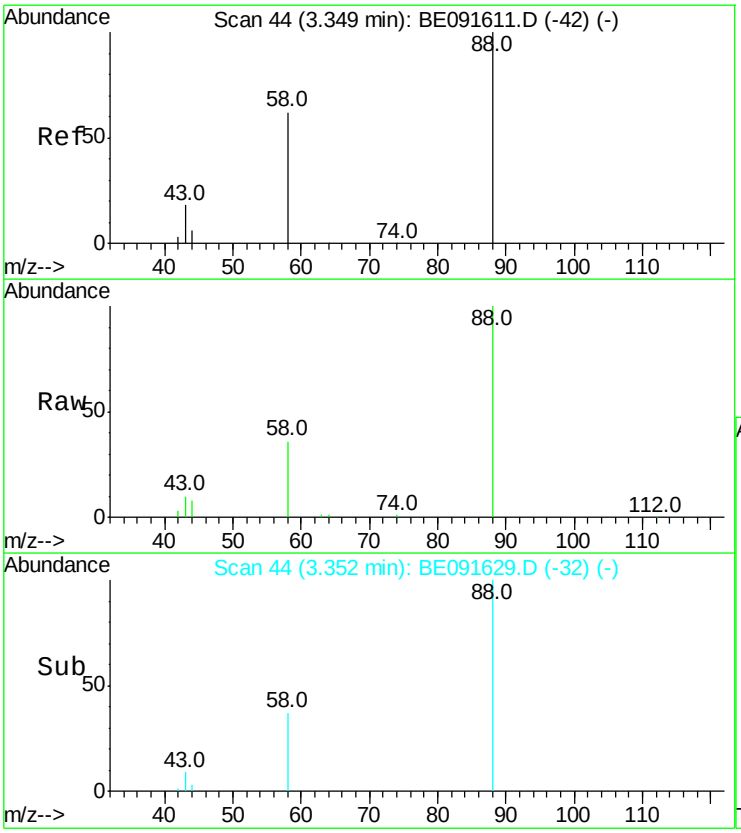
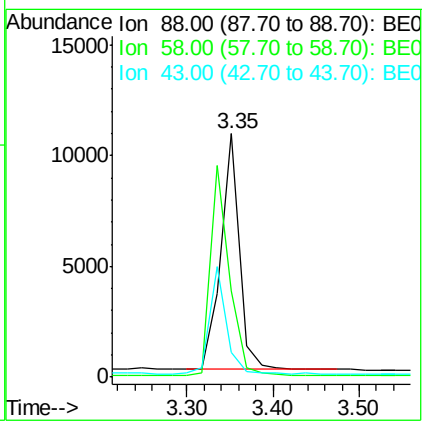
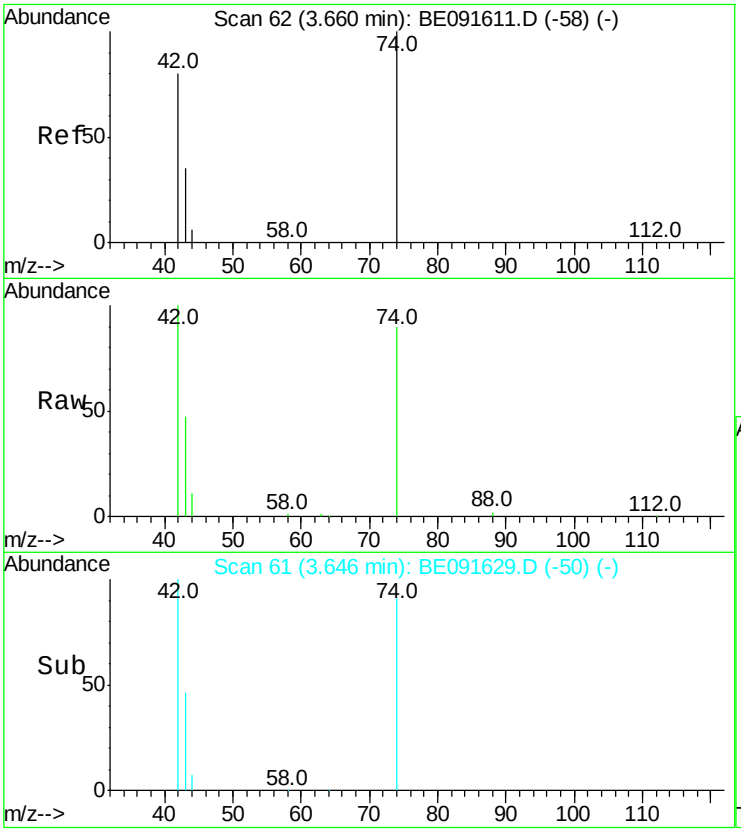


#2
1,4-Dioxane
Concen: 3.39 ng
RT: 3.35 min Scan# 44
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion: 88 Resp: 16160

Ion	Ratio	Lower	Upper
88	100		
58	90.2	65.8	98.6
43	39.7	25.3	37.9#





#3
n-Nitrosodimethylamine
Concen: 3.79 ng
RT: 3.65 min Scan# 61
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion: 42 Resp: 25096

Ion	Ratio	Lower	Upper
42	100		
74	105.2	87.9	131.9
44	6.2	6.6	9.8#

Instrument :
BNA_E
ClientSampleId :
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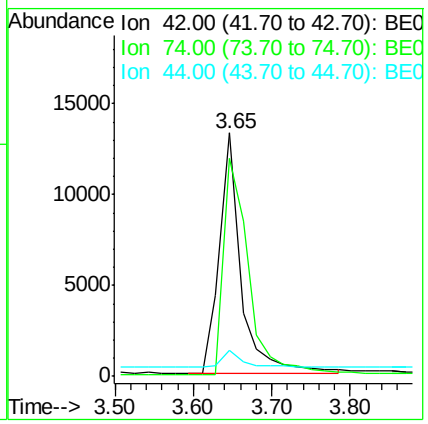
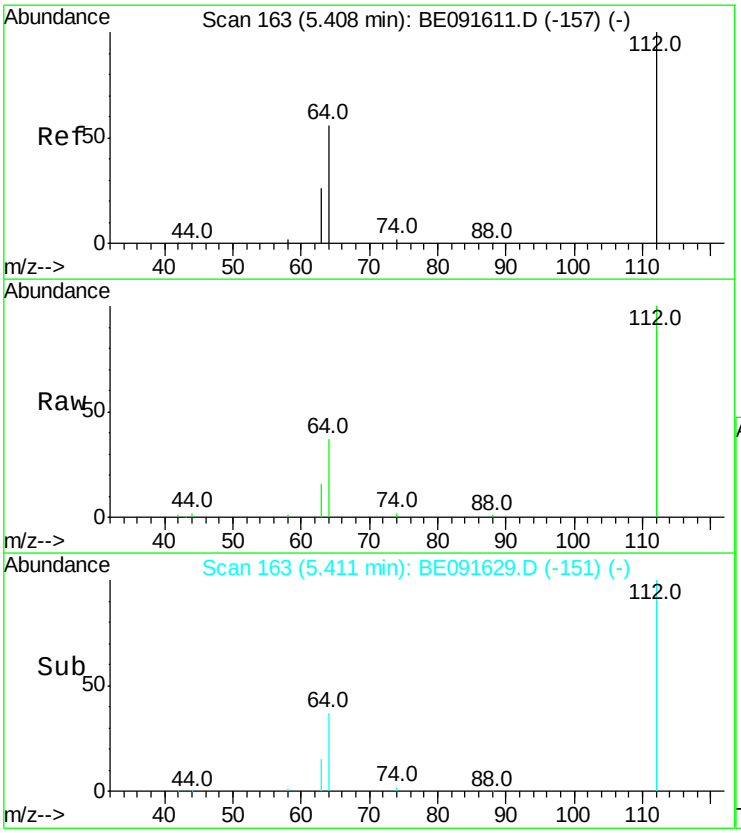
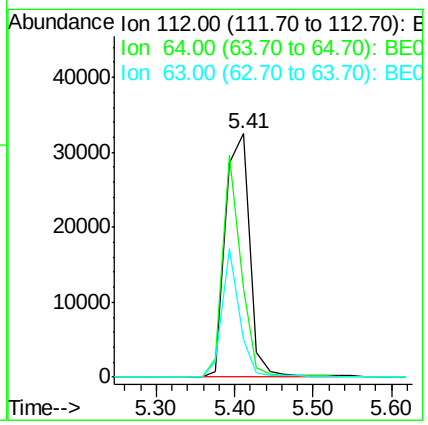


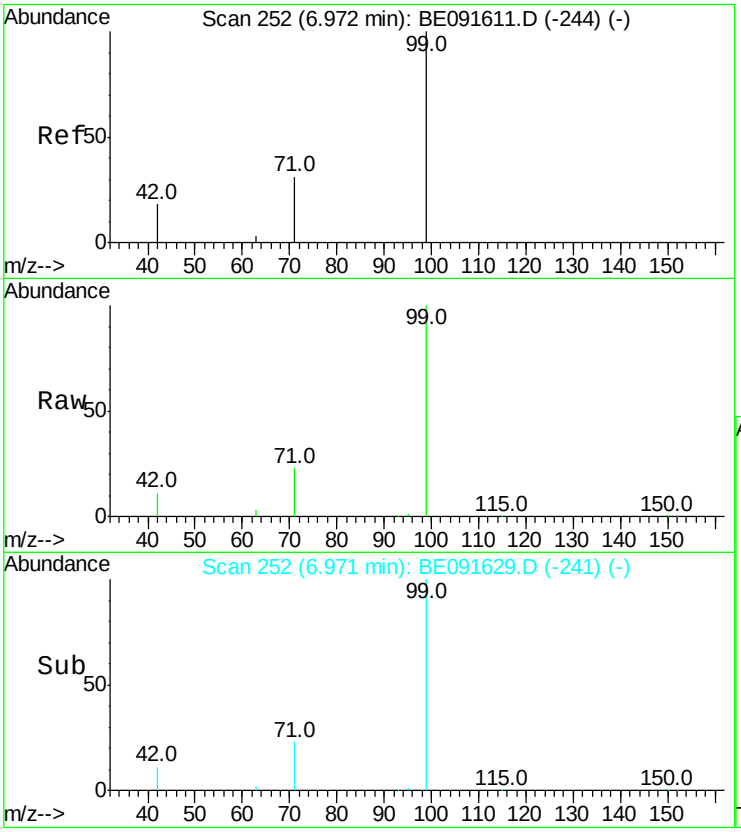


#4
2-Fluorophenol
Concen: 6.72 ng
RT: 5.41 min Scan# 163
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:112 Resp: 69139

Ion	Ratio	Lower	Upper
112	100		
64	68.8	30.9	46.3#
63	37.6	16.7	25.1#

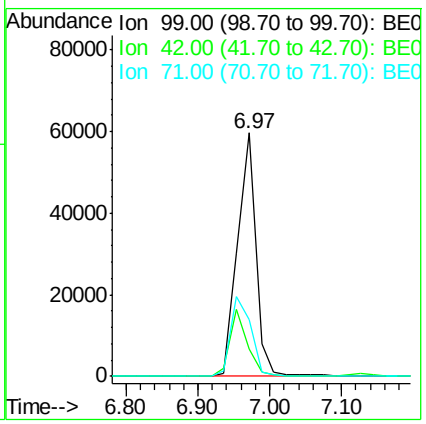




#5
Phenol-d6
Concen: 7.64 ng
RT: 6.97 min Scan# 252
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion: 99 Resp: 104808

Ion	Ratio	Lower	Upper
99	100		
42	26.3	16.2	24.2#
71	36.0	29.0	43.4



Instrument :
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ClientSampleId :
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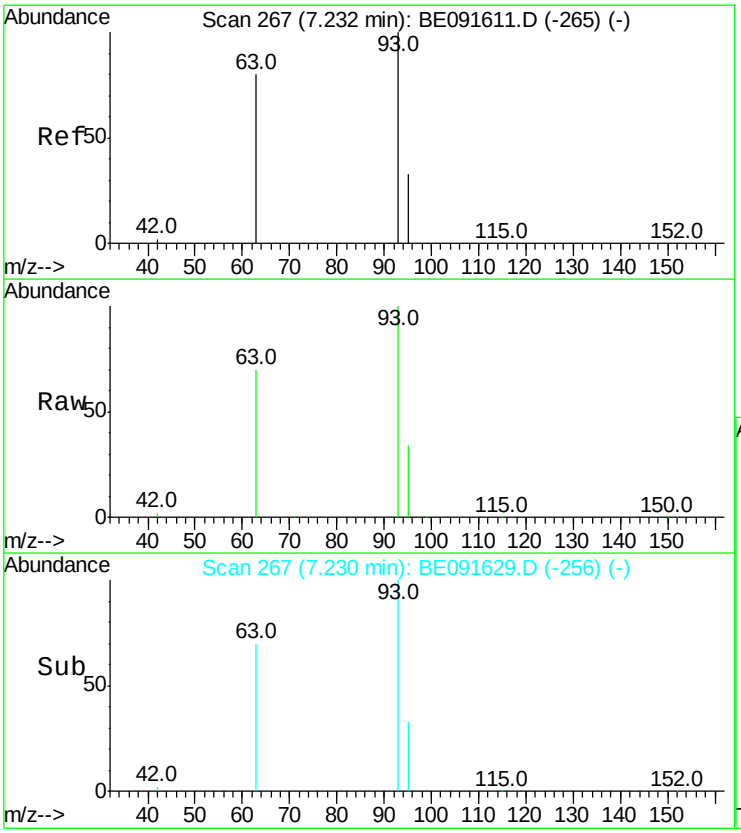
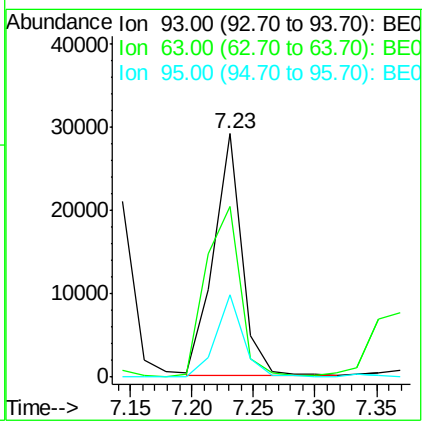
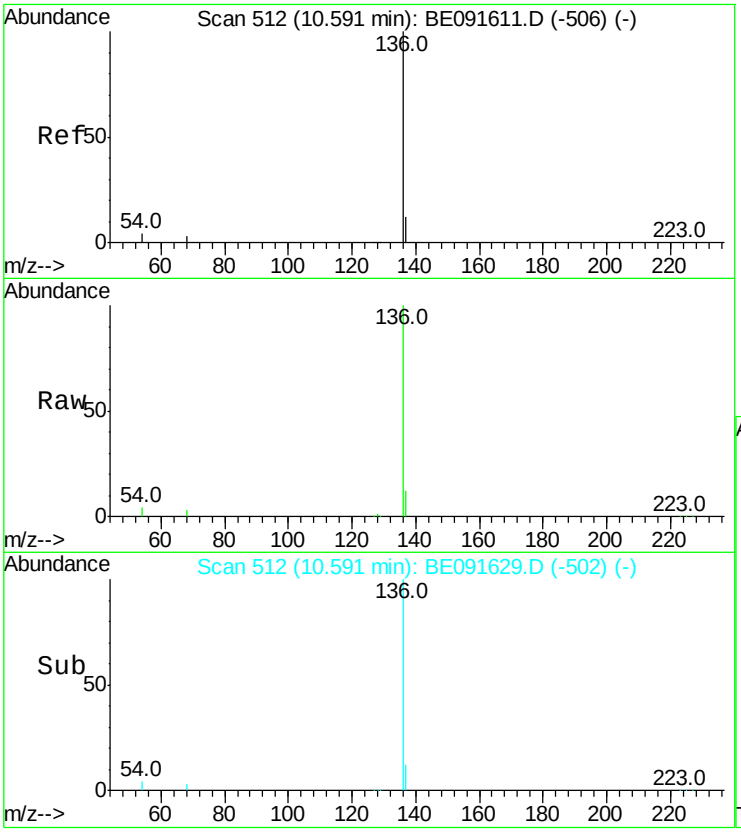


#6
bis(2-Chloroethyl)ether
Concen: 3.89 ng
RT: 7.23 min Scan# 267
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion: 93 Resp: 46319

Ion	Ratio	Lower	Upper
93	100		
63	85.3	49.5	74.3#
95	32.5	22.2	33.4

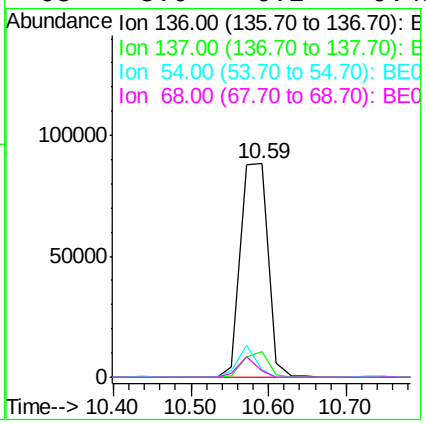




#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.59 min Scan# 512
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:136 Resp: 215372

Ion	Ratio	Lower	Upper
136	100		
137	12.2	8.9	13.3
54	3.6	8.2	12.4#
68	3.0	6.2	9.4#



Instrument :
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ClientSampleId :
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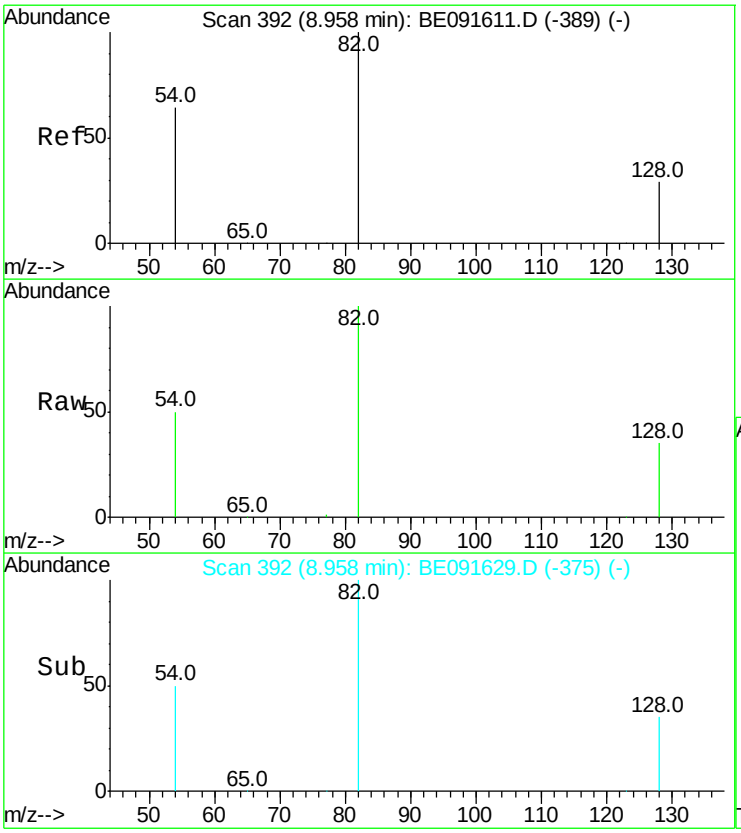
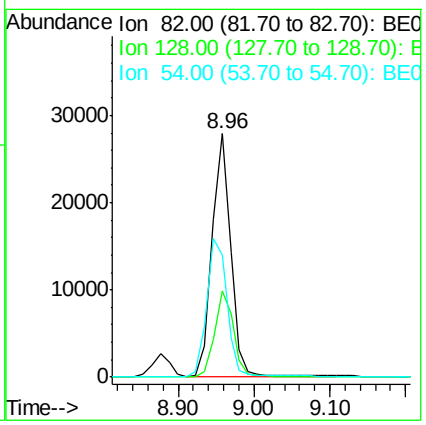
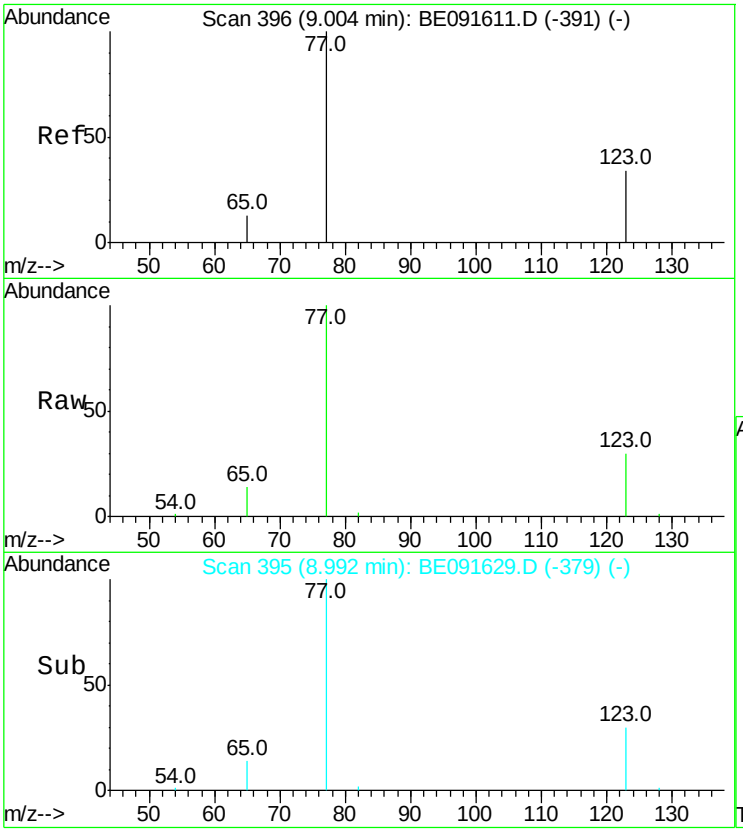


#8
Nitrobenzene-d5
Concen: 3.77 ng
RT: 8.96 min Scan# 392
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion: 82 Resp: 47209

Ion	Ratio	Lower	Upper
82	100		
128	35.4	25.4	38.0
54	50.1	48.4	72.6

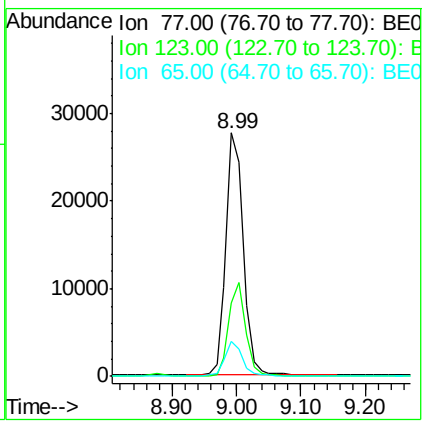




#9
Nitrobenzene
Concen: 3.33 ng
RT: 8.99 min Scan# 395
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion: 77 Resp: 51464

Ion	Ratio	Lower	Upper
77	100		
123	37.1	26.9	40.3
65	13.9	9.4	14.2



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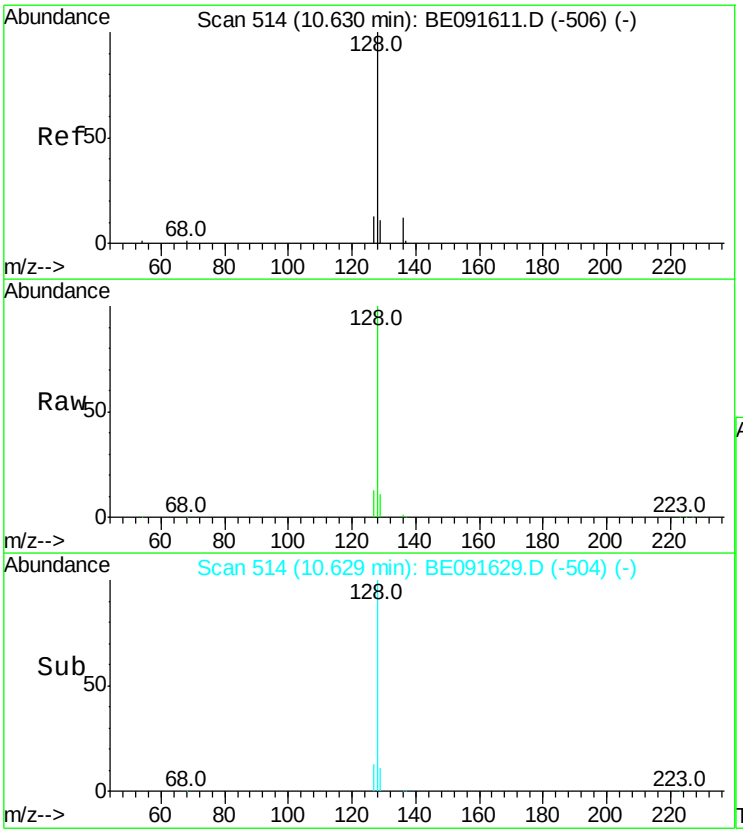
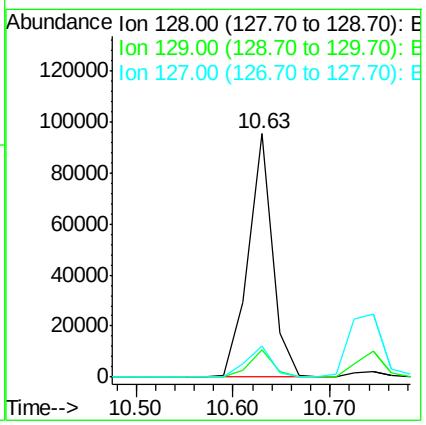
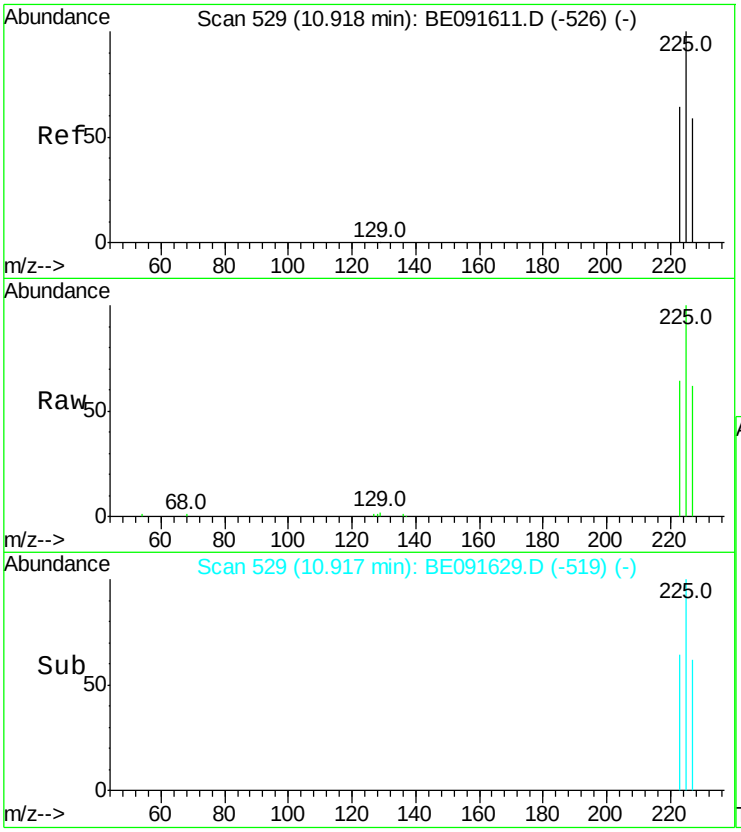


#10
Naphthalene
Concen: 3.72 ng
RT: 10.63 min Scan# 514
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:128 Resp: 165183

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.3	13.9
127	12.6	10.7	16.1

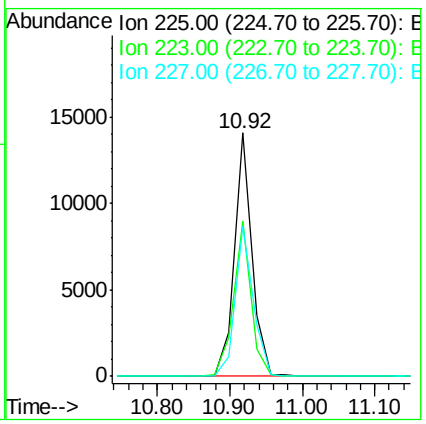




#11
Hexachlorobutadiene
Concen: 3.86 ng
RT: 10.92 min Scan# 529
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:225 Resp: 25201

Ion	Ratio	Lower	Upper
225	100		
223	64.4	49.0	73.6
227	64.9	50.3	75.5



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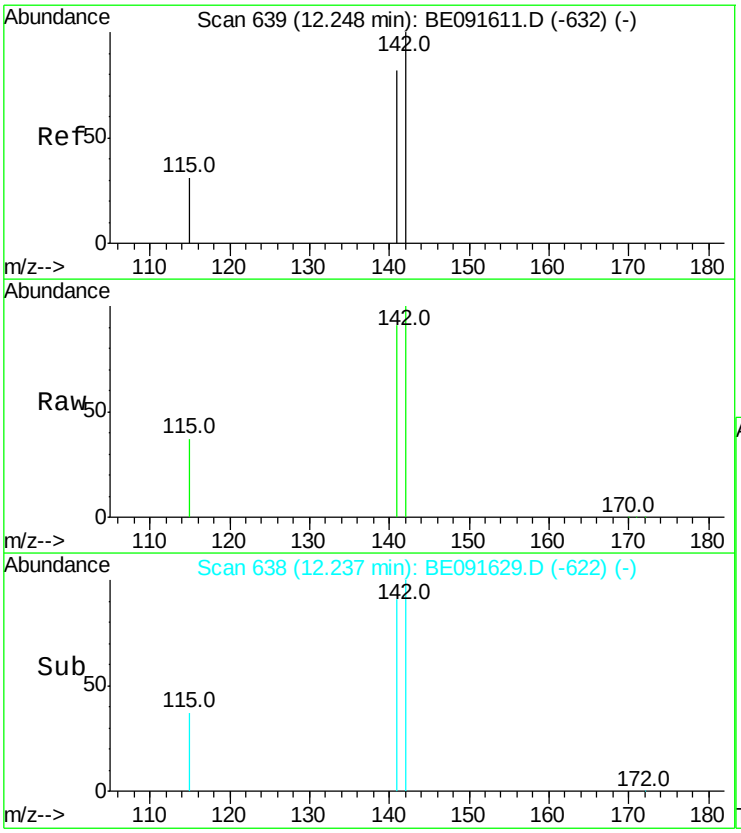
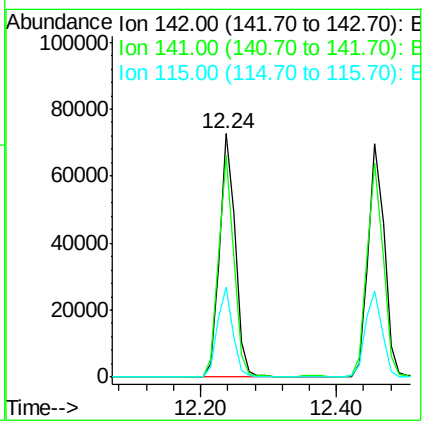
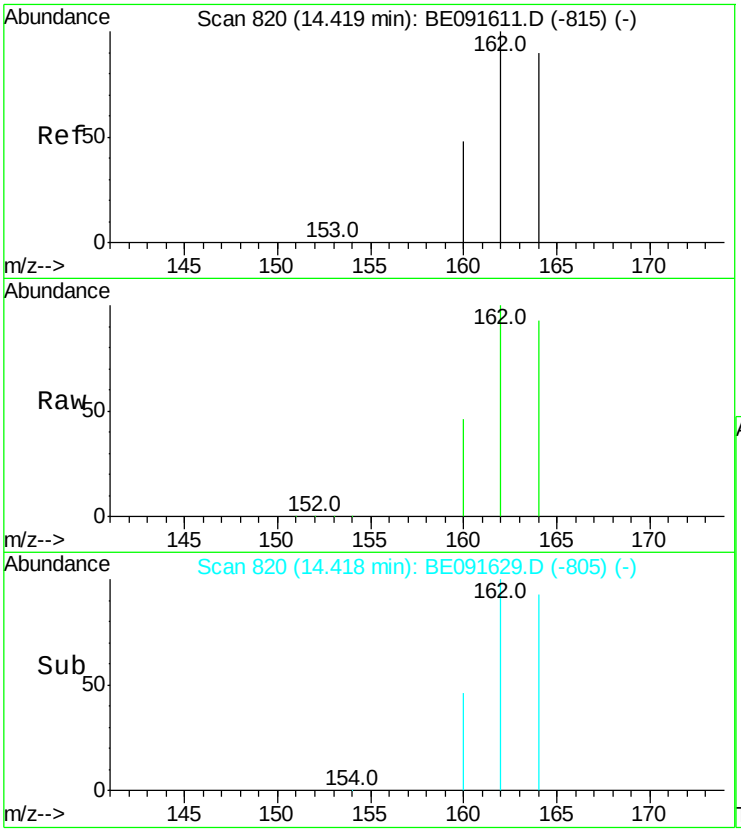


#12
2-Methylnaphthalene
Concen: 4.20 ng
RT: 12.24 min Scan# 638
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:142 Resp: 119052

Ion	Ratio	Lower	Upper
142	100		
141	90.9	71.4	107.0
115	37.1	30.3	45.5

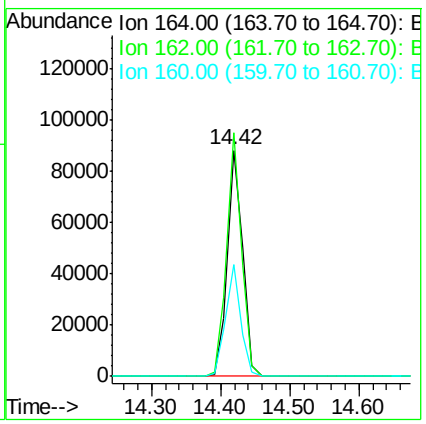




#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.42 min Scan# 820
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:164 Resp: 134716

Ion	Ratio	Lower	Upper
164	100		
162	107.6	85.3	127.9
160	49.3	46.2	69.2



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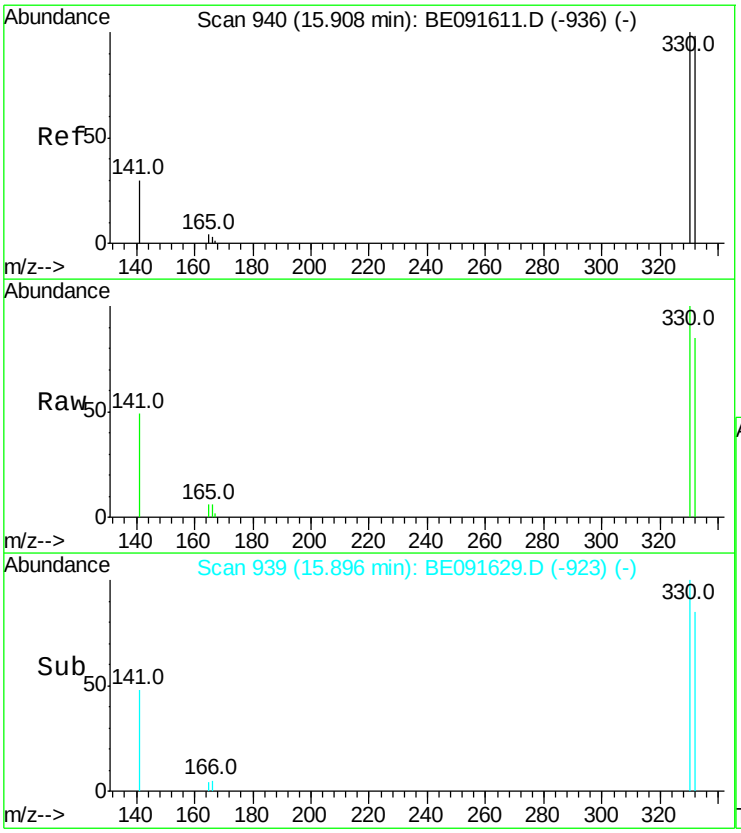
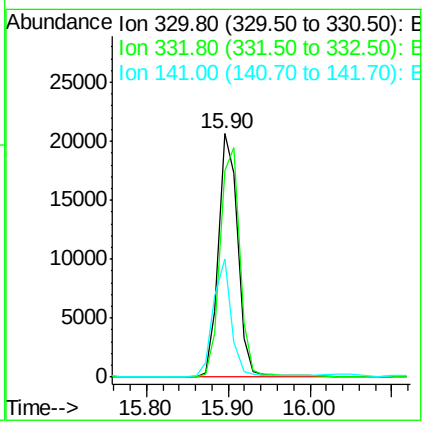
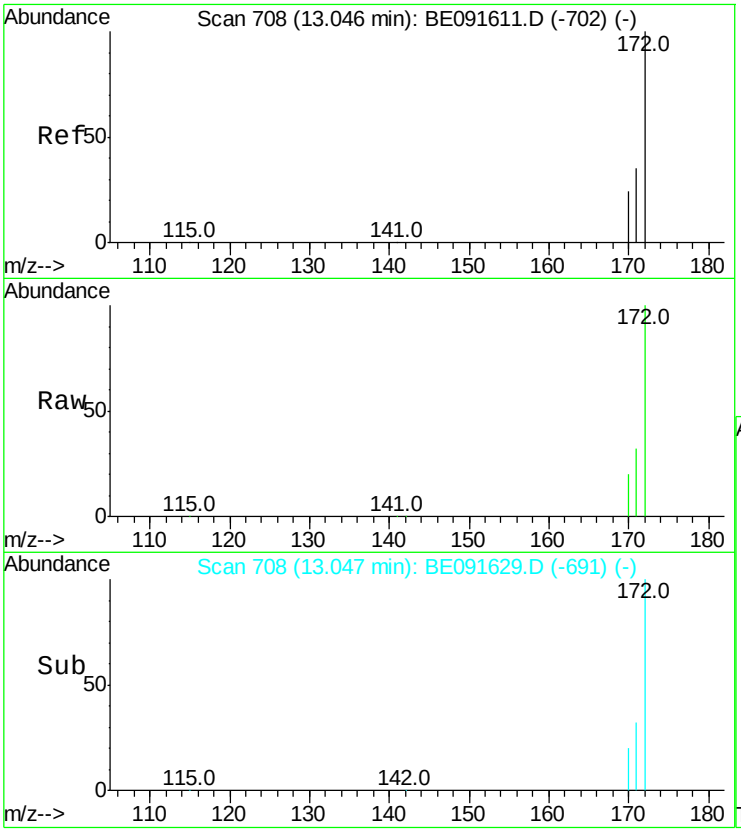


#14
2,4,6-Tribromophenol
Concen: 7.72 ng
RT: 15.90 min Scan# 939
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:330 Resp: 38015

Ion	Ratio	Lower	Upper
330	100		
332	96.2	79.1	118.7
141	39.2	125.4	188.0#

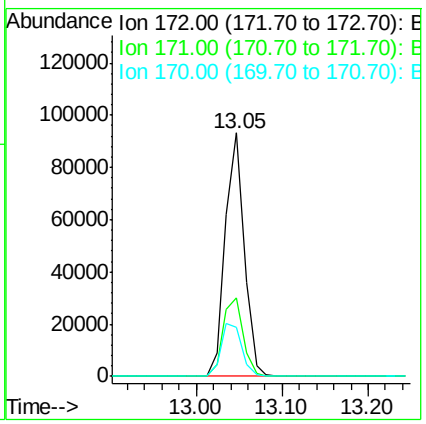




#15
2-Fluorobiphenyl
Concen: 3.80 ng
RT: 13.05 min Scan# 708
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:172 Resp: 142433

Ion	Ratio	Lower	Upper
172	100		
171	32.1	28.8	43.2
170	20.1	19.3	28.9



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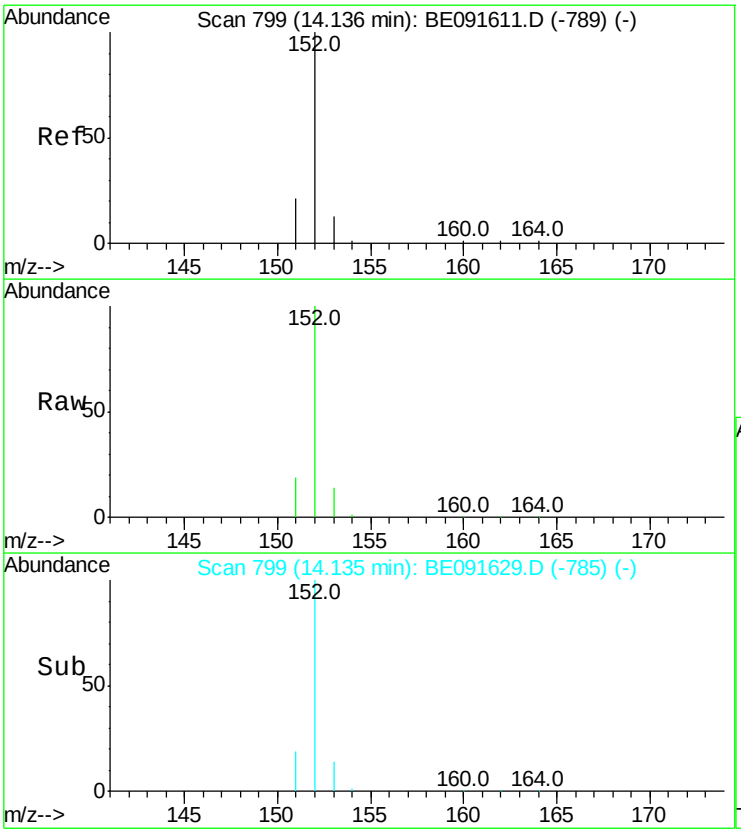
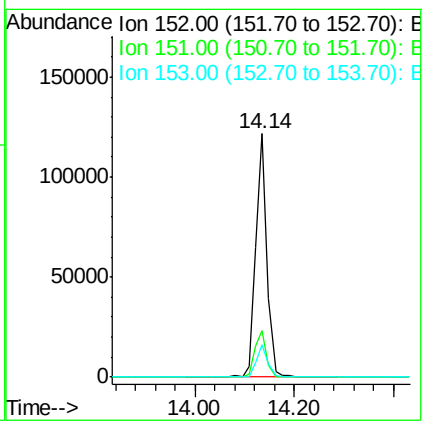
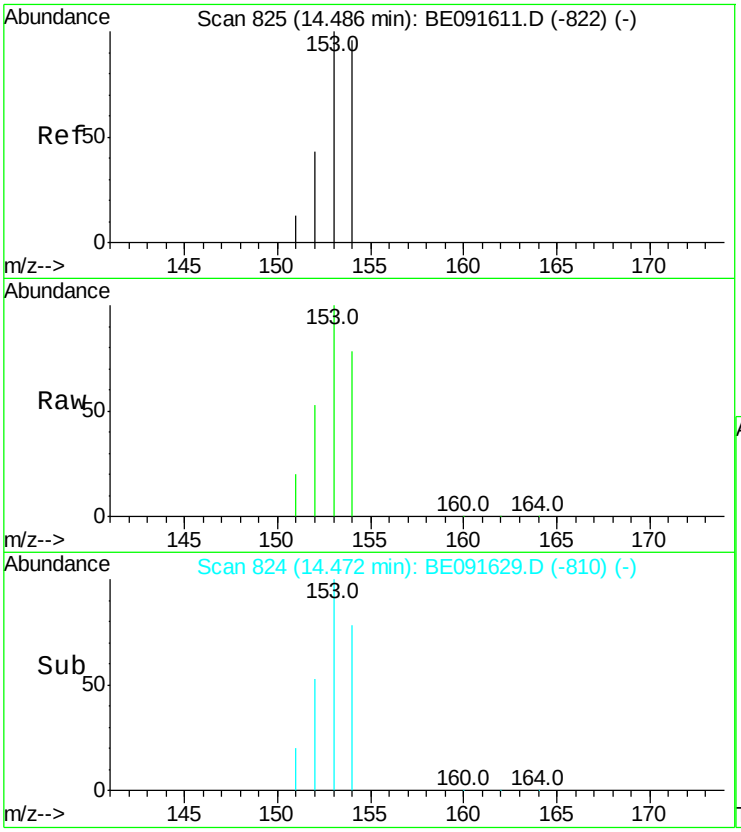


#16
Acenaphthylene
Concen: 3.93 ng
RT: 14.14 min Scan# 799
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:152 Resp: 205294

Ion	Ratio	Lower	Upper
152	100		
151	20.2	3.9	5.9#
153	13.6	10.3	15.5

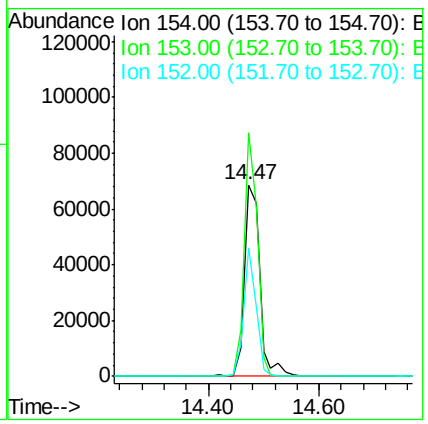




#17
Acenaphthene
Concen: 3.93 ng
RT: 14.47 min Scan# 824
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:154 Resp: 130017

Ion	Ratio	Lower	Upper
154	100		
153	107.5	80.0	120.0
152	53.5	40.0	60.0



Instrument :
BNA_E
ClientSampleId :
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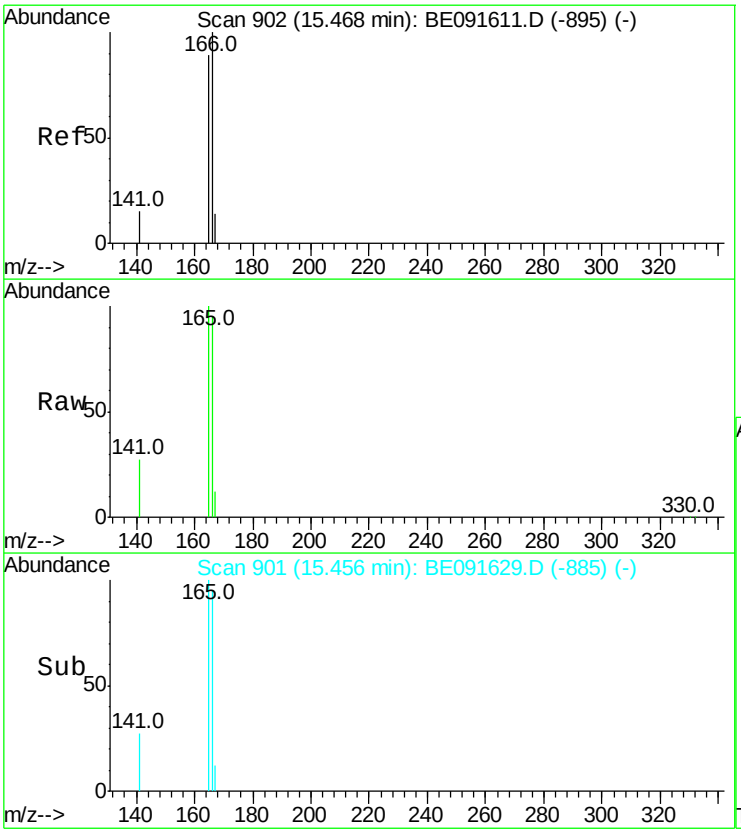
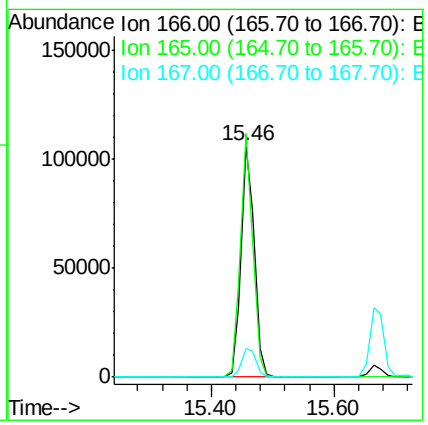
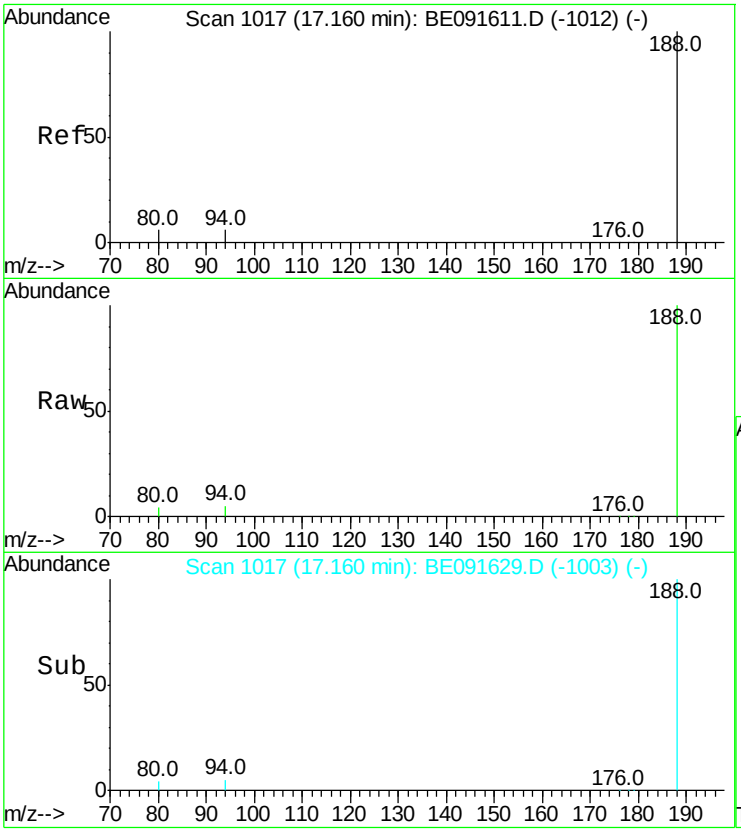


#18
Fluorene
Concen: 3.88 ng
RT: 15.46 min Scan# 901
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:166 Resp: 160459

Ion	Ratio	Lower	Upper
166	100		
165	99.8	80.8	121.2
167	13.5	10.9	16.3





#19
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1017
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:188 Resp: 320856

Ion	Ratio	Lower	Upper
188	100		
94	4.8	8.7	13.1#
80	4.0	9.4	14.0#

Instrument :
BNA_E
ClientSampleId :
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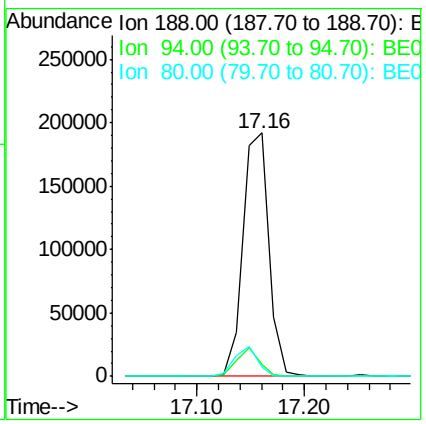
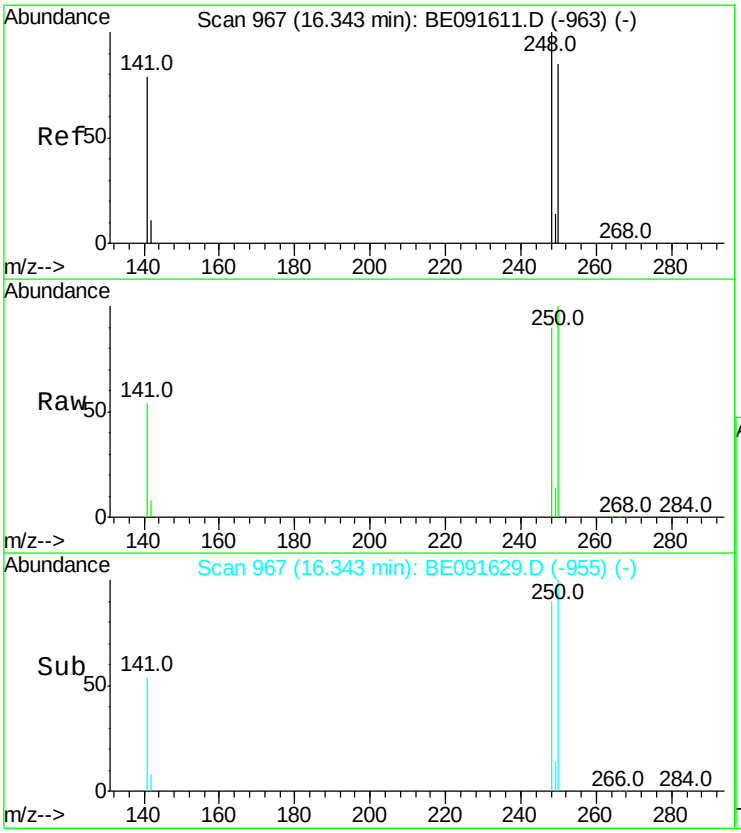
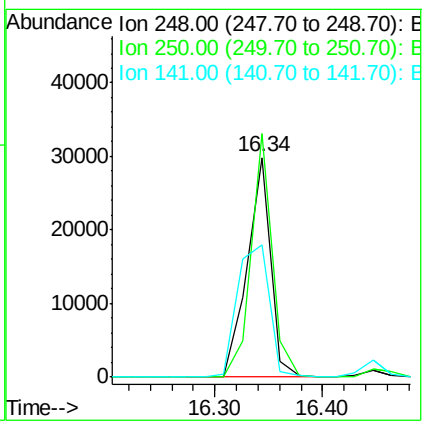


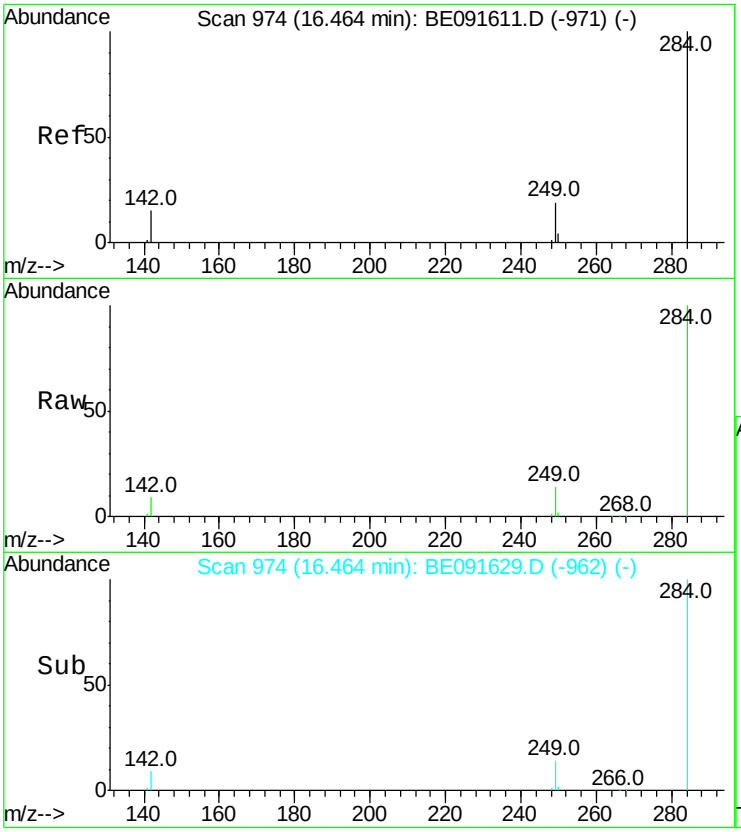


#20
4-Bromophenyl-phenylether
Concen: 3.94 ng
RT: 16.34 min Scan# 967
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:248 Resp: 44547

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.5	120.7
141	81.8	72.0	108.0

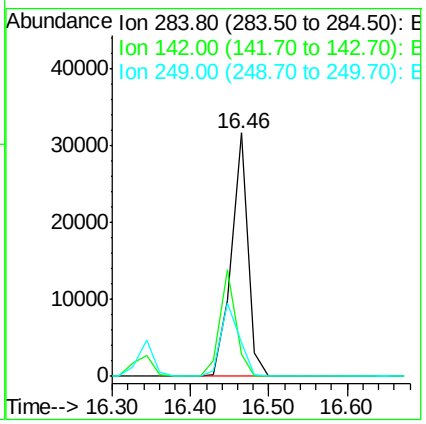




#21
Hexachlorobenzene
Concen: 3.95 ng
RT: 16.46 min Scan# 974
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:284 Resp: 46361

Ion	Ratio	Lower	Upper
284	100		
142	41.8	32.2	48.2
249	32.9	25.4	38.2



Instrument :
BNA_E
ClientSampleId :
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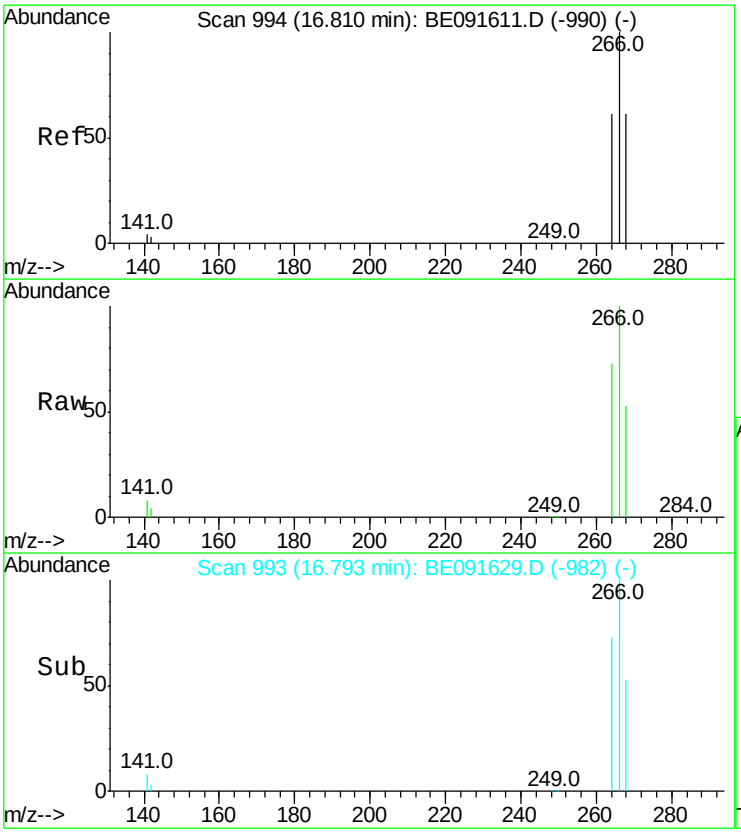
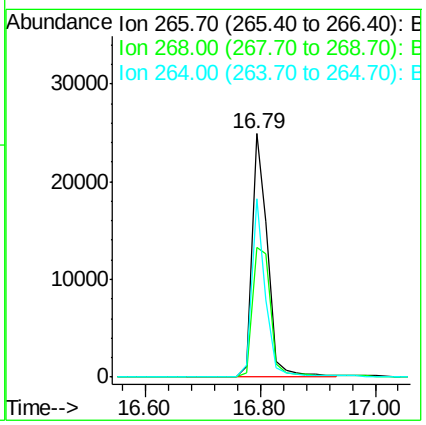
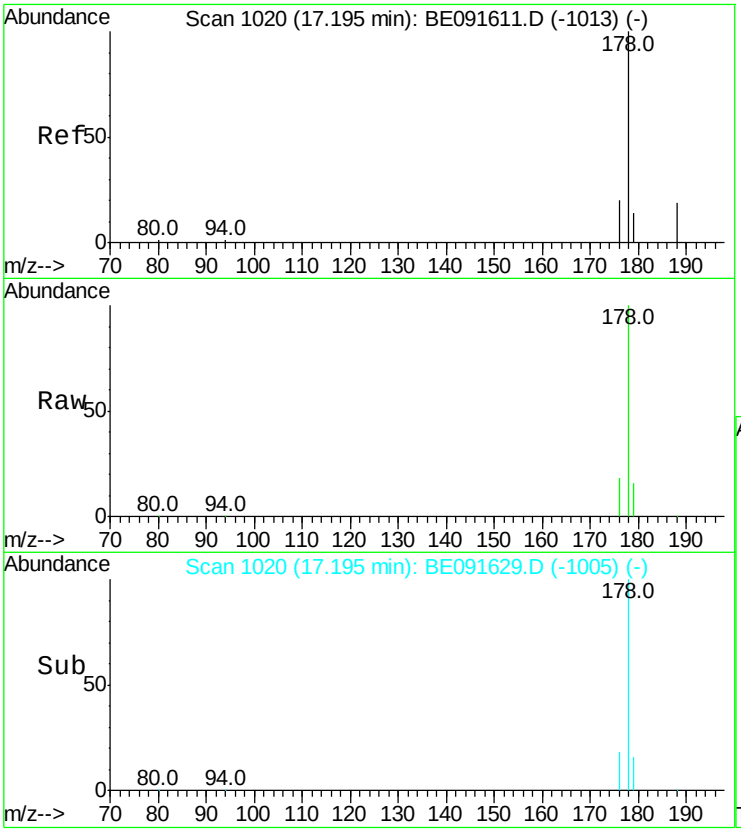


#22
Pentachlorophenol
Concen: 7.68 ng
RT: 16.79 min Scan# 993
Delta R.T. -0.02 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:266 Resp: 46994

Ion	Ratio	Lower	Upper
266	100		
268	53.0	58.2	87.2#
264	73.2	56.2	84.4

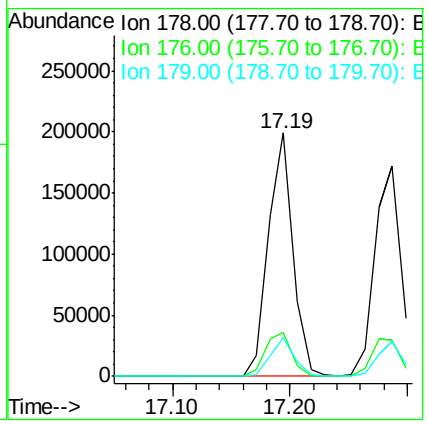




#23
Phenanthrene
Concen: 3.96 ng
RT: 17.19 min Scan# 1020
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:178 Resp: 290099

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.3	22.9
179	15.3	12.6	18.8



Instrument :
BNA_E
ClientSampleId :
PB89639BS

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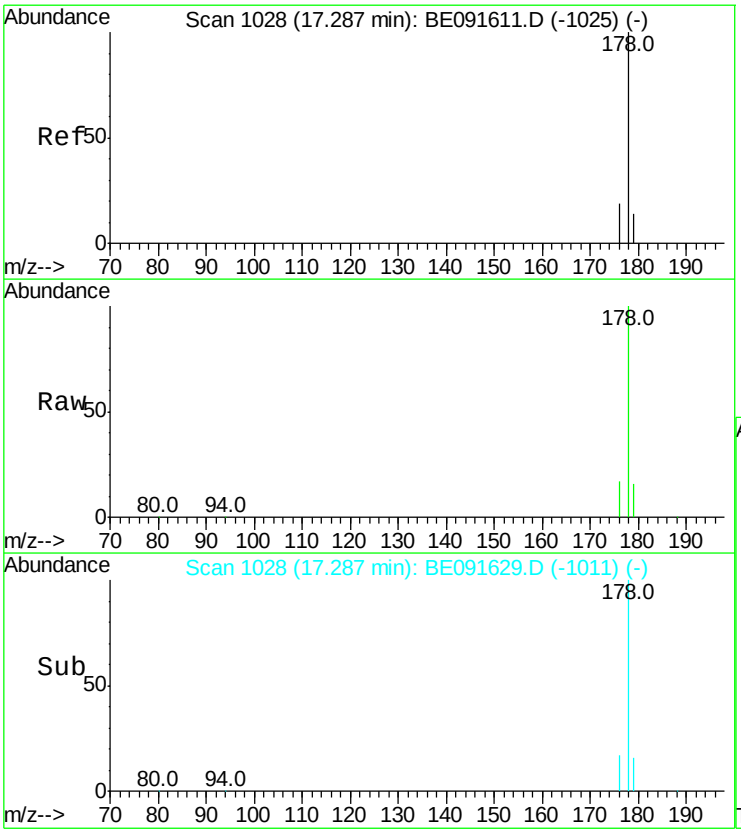
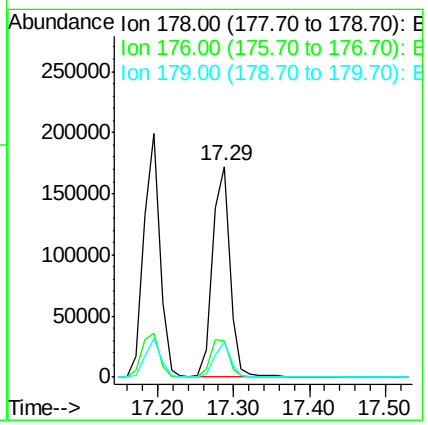
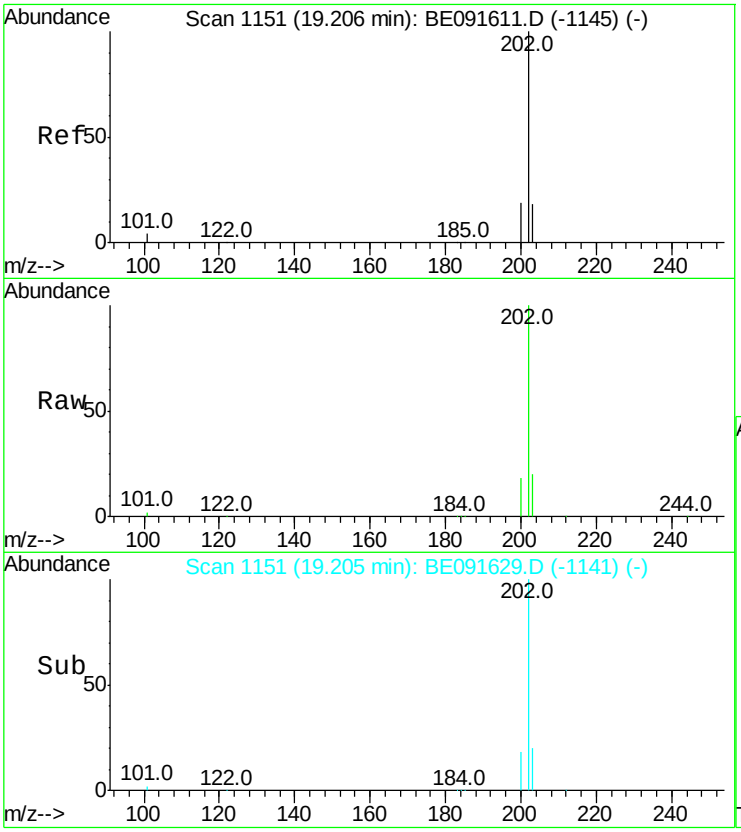


#24
Anthracene
Concen: 4.22 ng
RT: 17.29 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:178 Resp: 273904

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.6	21.8
179	15.2	11.8	17.6

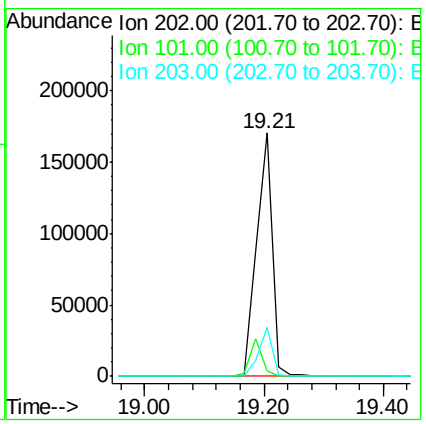




#25
Fluoranthene
Concen: 3.99 ng
RT: 19.21 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:202 Resp: 308805

Ion	Ratio	Lower	Upper
202	100		
101	12.1	11.0	16.6
203	17.8	13.9	20.9



Instrument :
BNA_E
ClientSampleId :
PB89639BS

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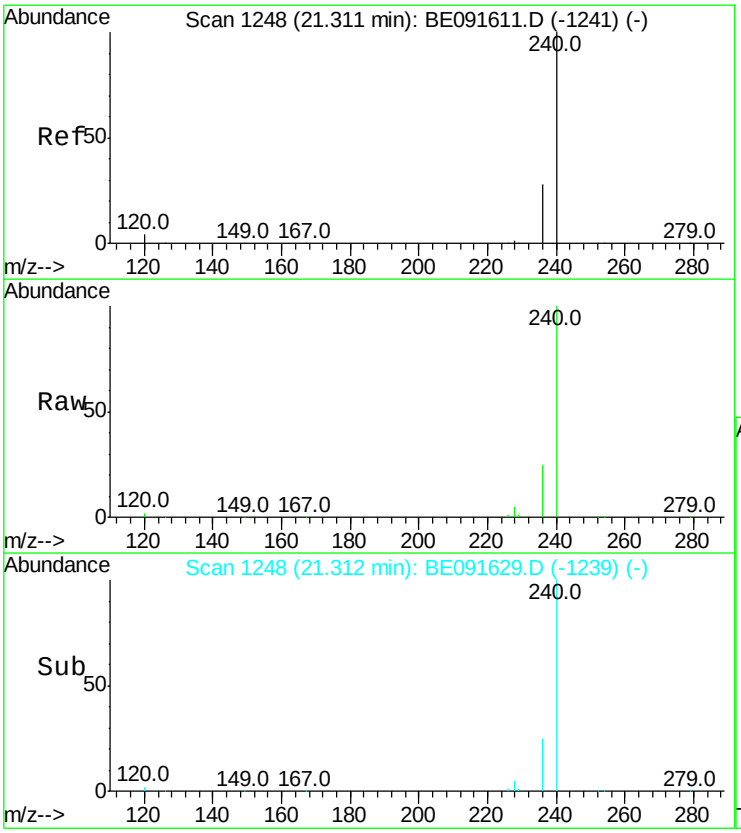
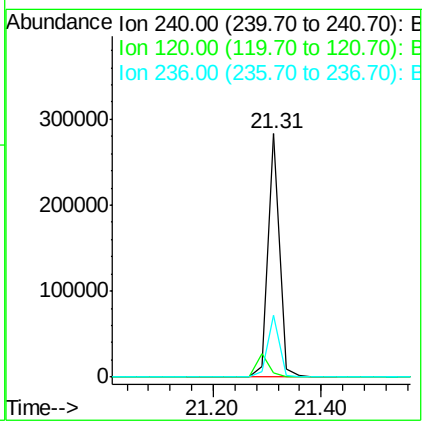
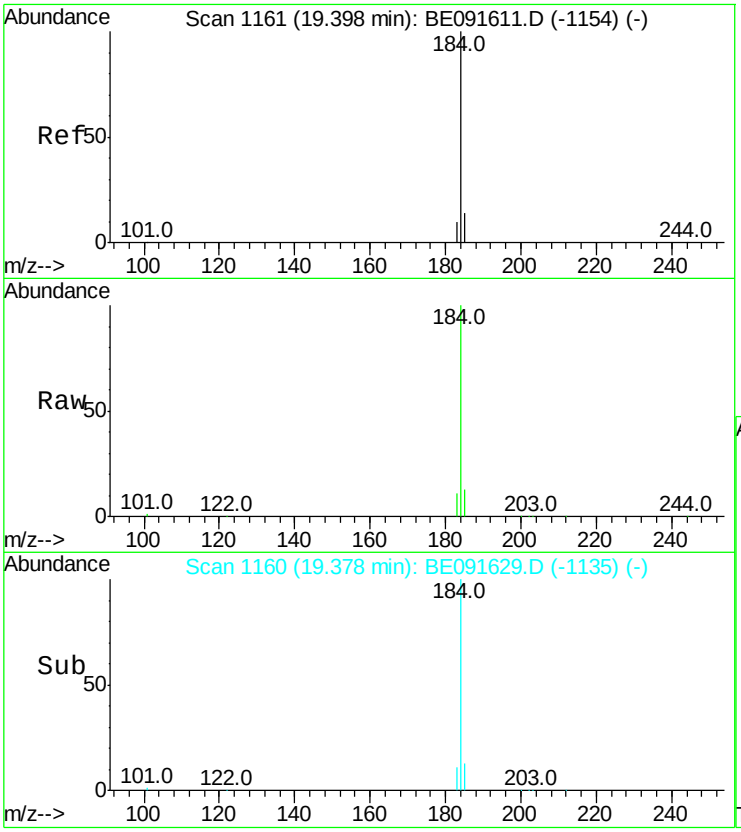


#26
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1248
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:240 Resp: 427765

Ion	Ratio	Lower	Upper
240	100		
120	1.7	11.0	16.4#
236	25.4	21.7	32.5





#27
Benzidine
Concen: 3.00 ng
RT: 19.38 min Scan# 1160
Delta R.T. -0.02 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:184 Resp: 119949

Ion	Ratio	Lower	Upper
184	100		
185	13.4	22.3	33.5#
183	11.0	16.4	24.6#

Instrument :
BNA_E
ClientSampleId :
PB89639BS

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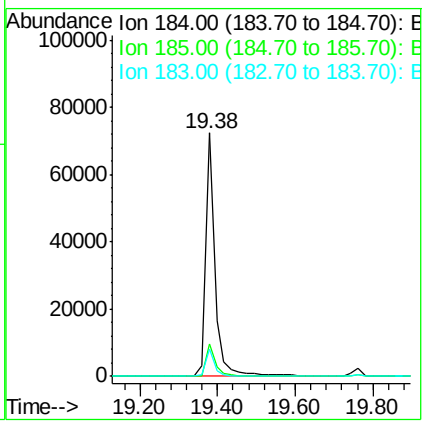
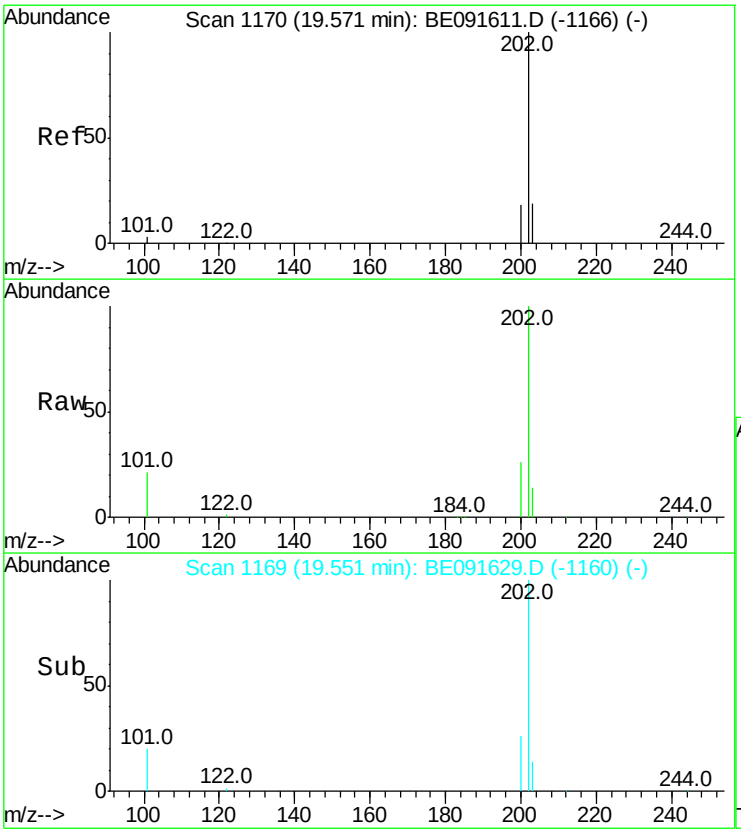
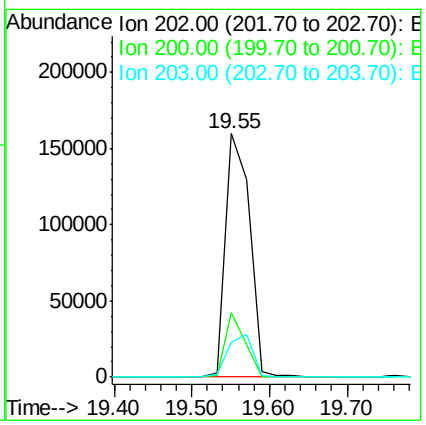


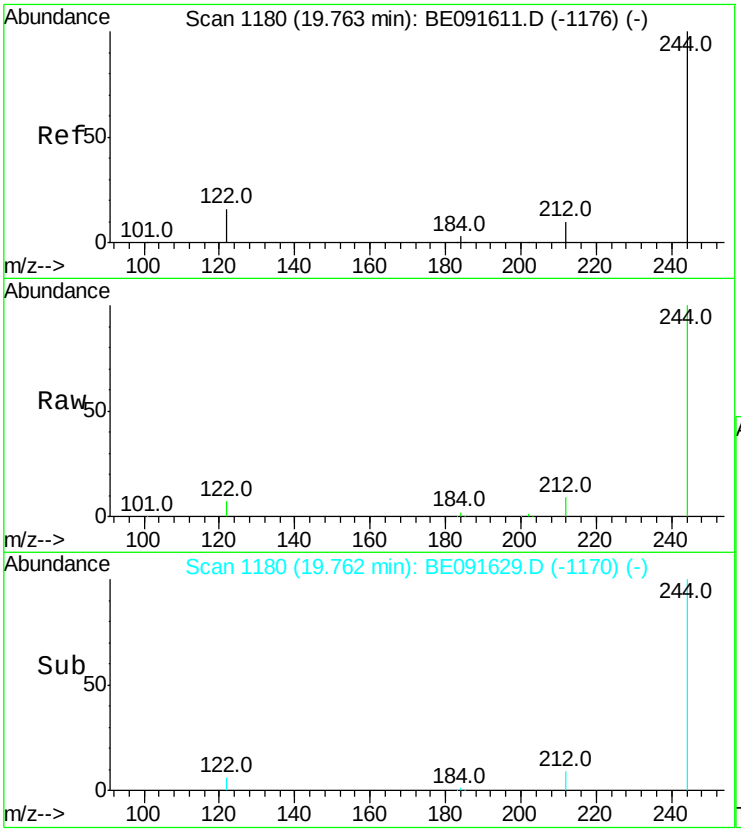


#28
Pyrene
Concen: 4.01 ng
RT: 19.55 min Scan# 1169
Delta R.T. -0.02 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:202 Resp: 343050

Ion	Ratio	Lower	Upper
202	100		
200	21.8	16.8	25.2
203	18.0	14.0	21.0





#29
Terphenyl-d14
Concen: 3.99 ng
RT: 19.76 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:244 Resp: 213149

Ion	Ratio	Lower	Upper
244	100		
212	9.2	6.9	10.3
122	6.5	11.0	16.4#

Instrument :
BNA_E
ClientSampleId :
PB89639BS

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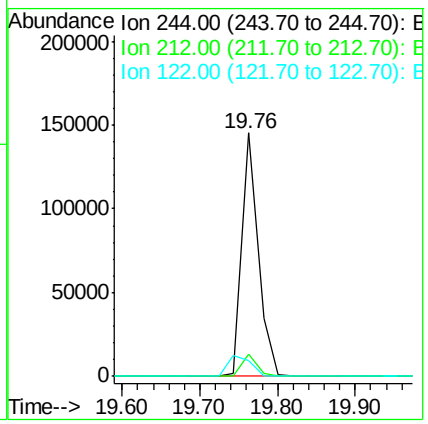
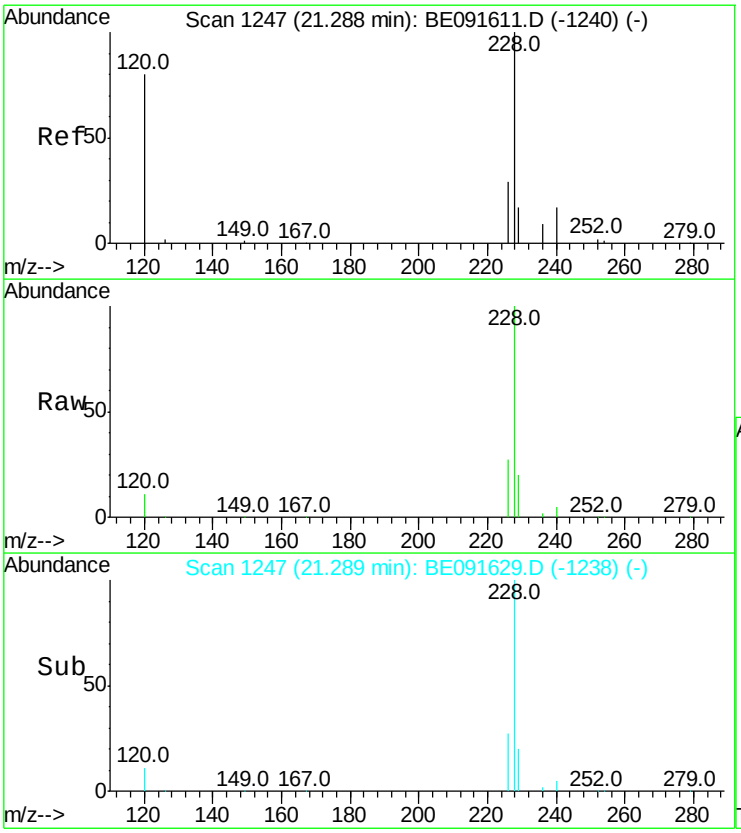
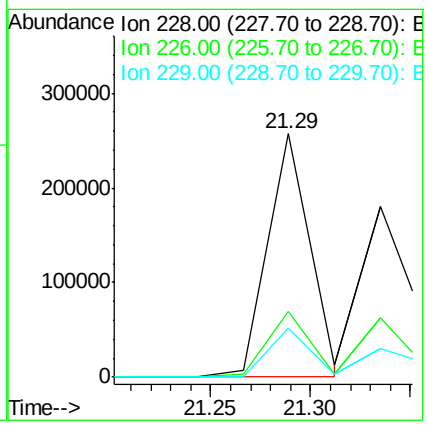


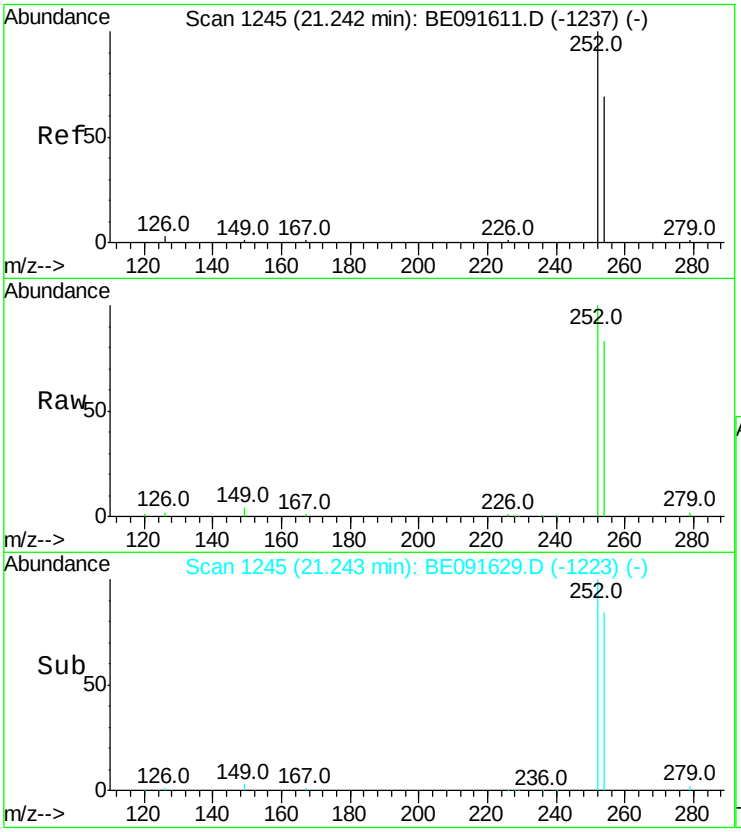


#30
Benzo(a)anthracene
Concen: 4.01 ng m
RT: 21.29 min Scan# 1247
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:228 Resp: 384211

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.0	31.4
229	19.9	15.7	23.5





#31
3,3'-Dichlorobenzidine
Concen: 1.06 ng
RT: 21.24 min Scan# 1245
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:252 Resp: 64738

Ion	Ratio	Lower	Upper
252	100		
254	83.5	51.1	76.7#
126	1.6	12.6	18.8#

Instrument :
BNA_E
ClientSampleId :
PB89639BS

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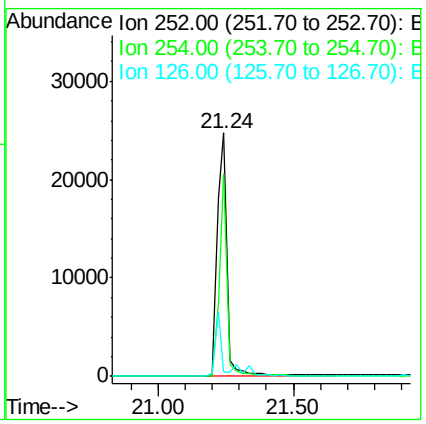
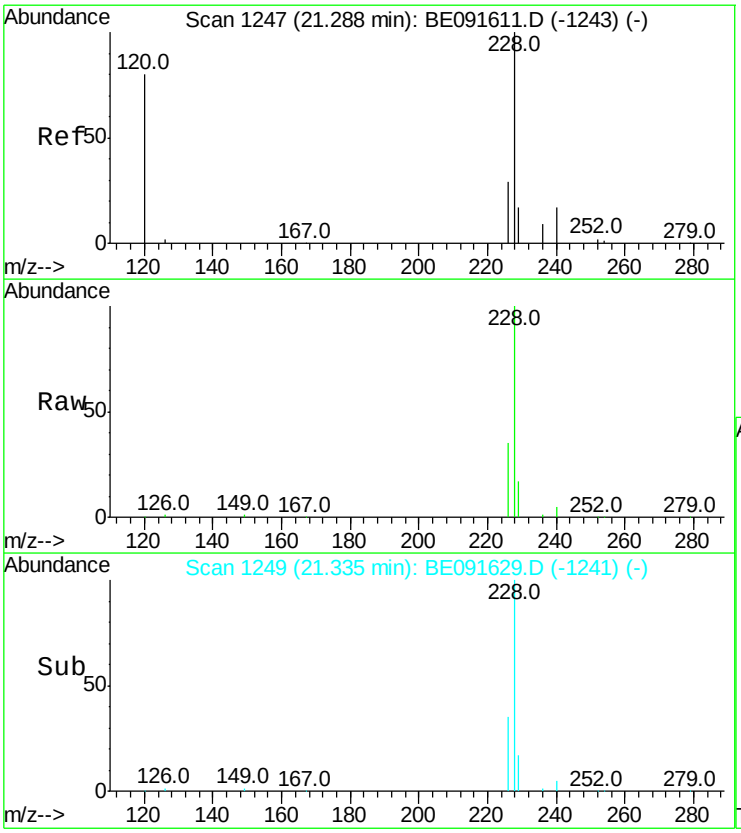
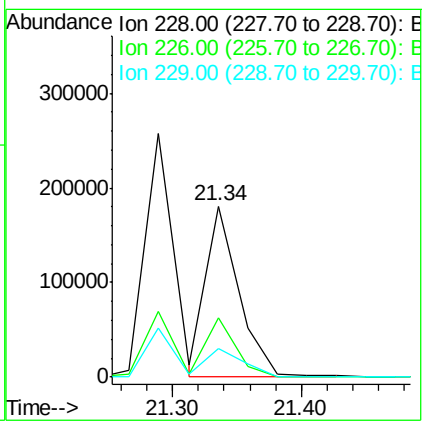


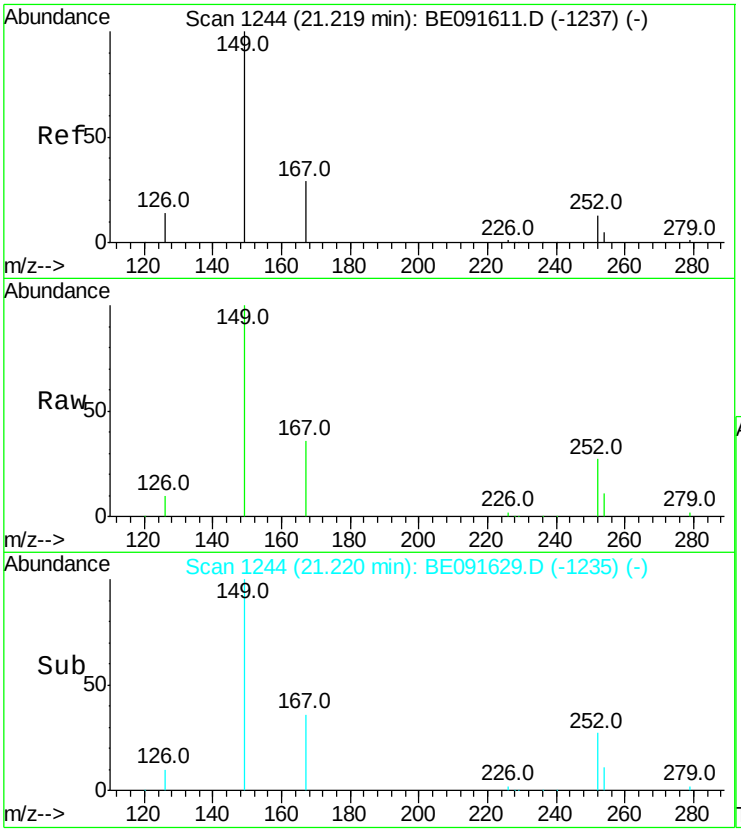


#32
Chrysene
Concen: 3.81 ng m
RT: 21.34 min Scan# 1249
Delta R.T. -0.02 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:228 Resp: 330990

Ion	Ratio	Lower	Upper
228	100		
226	35.0	24.0	36.0
229	16.7	15.9	23.9





#33
Bis(2-ethylhexyl)phthalate
Concen: 1.78 ng
RT: 21.22 min Scan# 1244
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:149 Resp: 110096

Ion	Ratio	Lower	Upper
149	100		
167	33.3	19.5	29.3#
279	2.6	10.0	15.0#

Instrument :
BNA_E
ClientSampleId :
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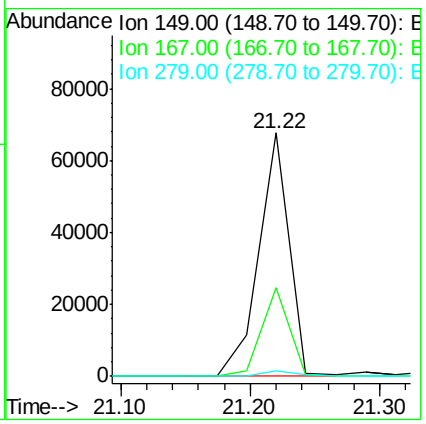
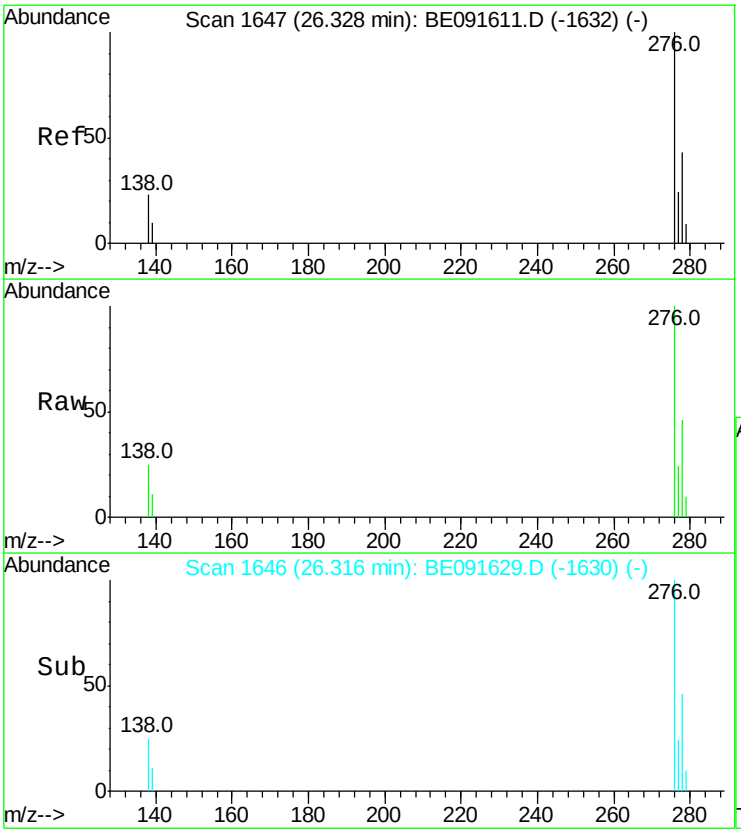
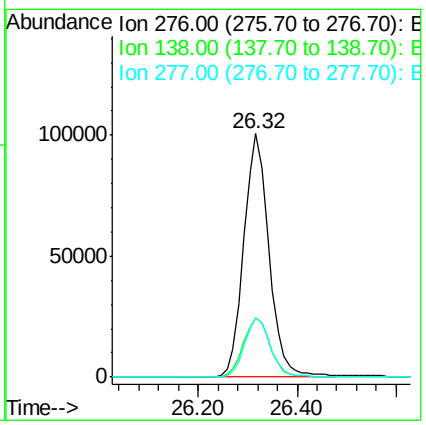


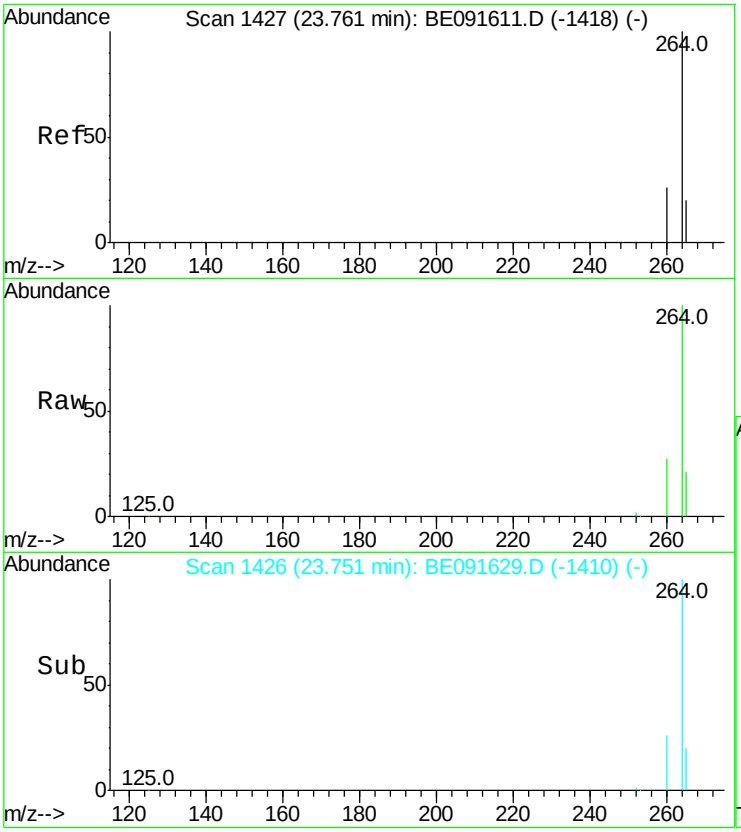


#34
Indeno(1,2,3-cd)pyrene
Concen: 3.70 ng
RT: 26.32 min Scan# 1646
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:276 Resp: 358451

Ion	Ratio	Lower	Upper
276	100		
138	26.2	23.4	35.2
277	24.9	19.8	29.8

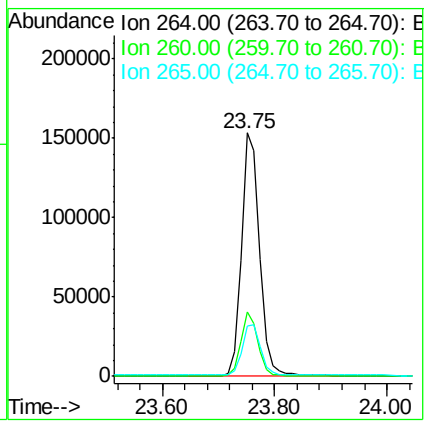




#35
Perylene-d12
Concen: 5.00 ng
RT: 23.75 min Scan# 1426
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:264 Resp: 347339

Ion	Ratio	Lower	Upper
264	100		
260	26.5	20.0	30.0
265	20.9	17.5	26.3



Instrument :
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ClientSampleId :
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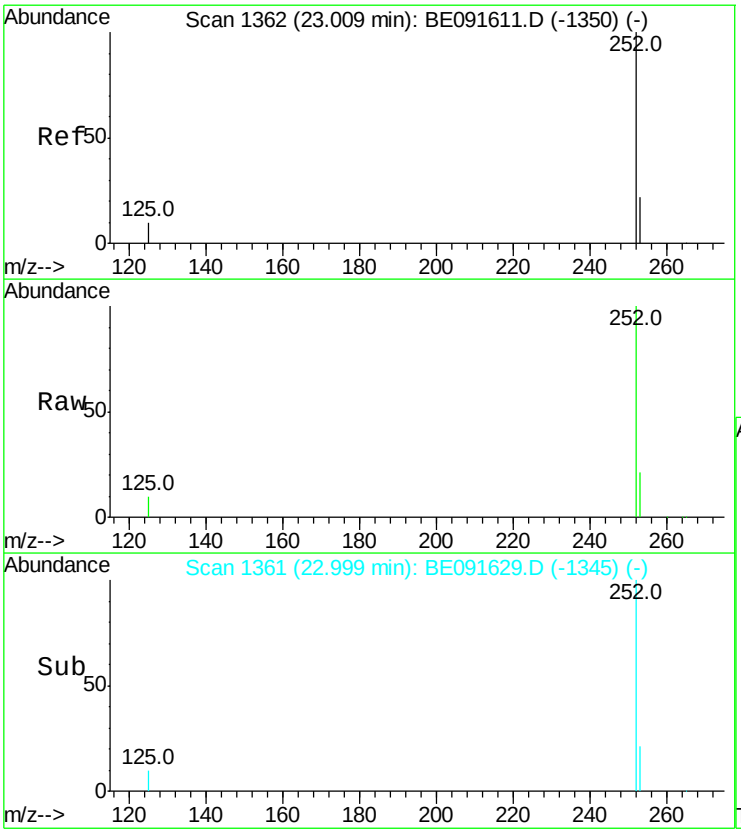
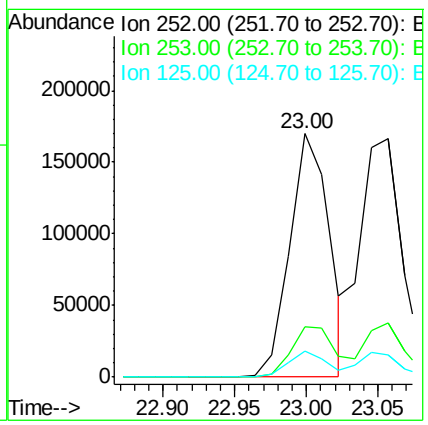
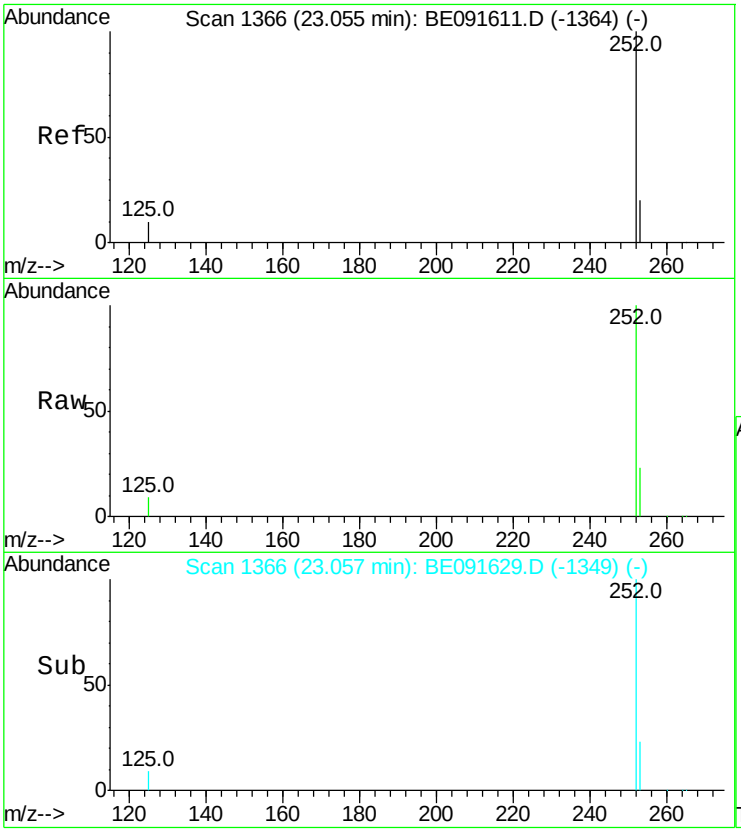


#36
Benzo(b)fluoranthene
Concen: 4.02 ng
RT: 23.00 min Scan# 1361
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:252 Resp: 324245

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.4	26.0
125	10.5	10.2	15.2





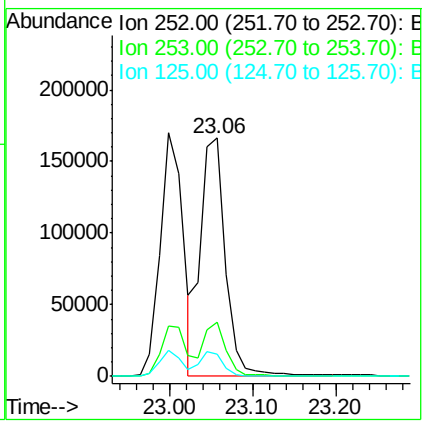
#37
Benzo(k)fluoranthene
Concen: 4.40 ng m
RT: 23.06 min Scan# 1366
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

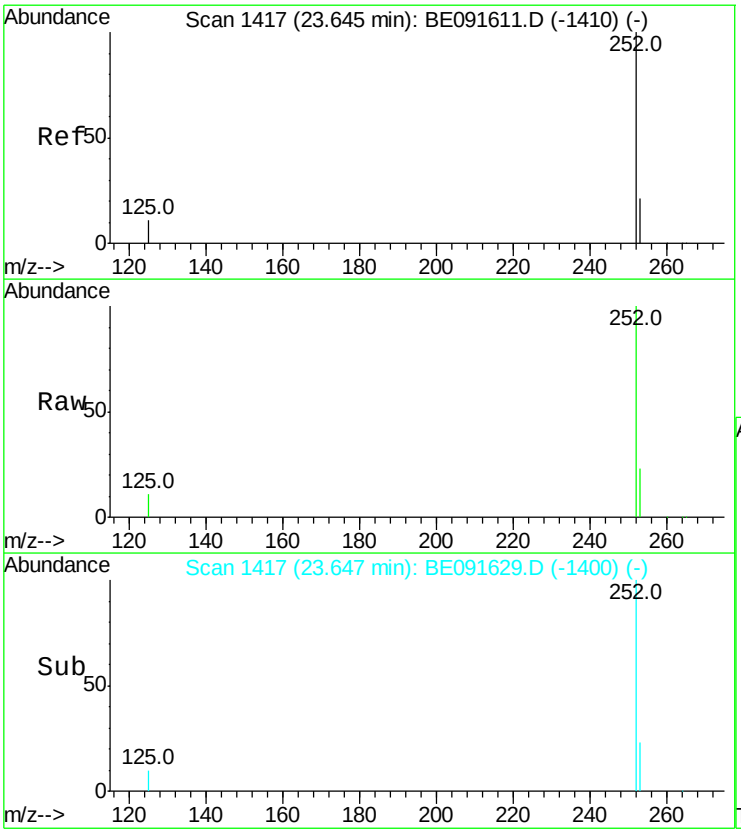
Tgt Ion:252 Resp: 349656

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.6	26.4
125	9.4	9.9	14.9#

Instrument :
BNA_E
ClientSampleId :
PB89639BS

Manual Integrations APPROVED
Sohil
4/12/2016 5:31:40 PM

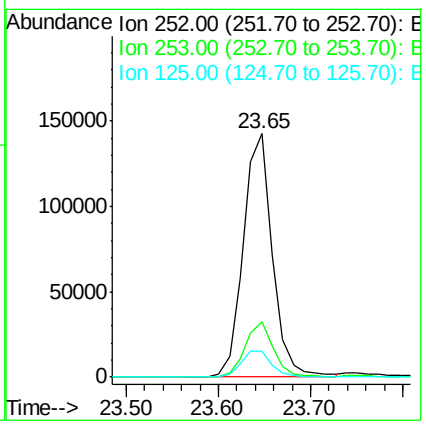


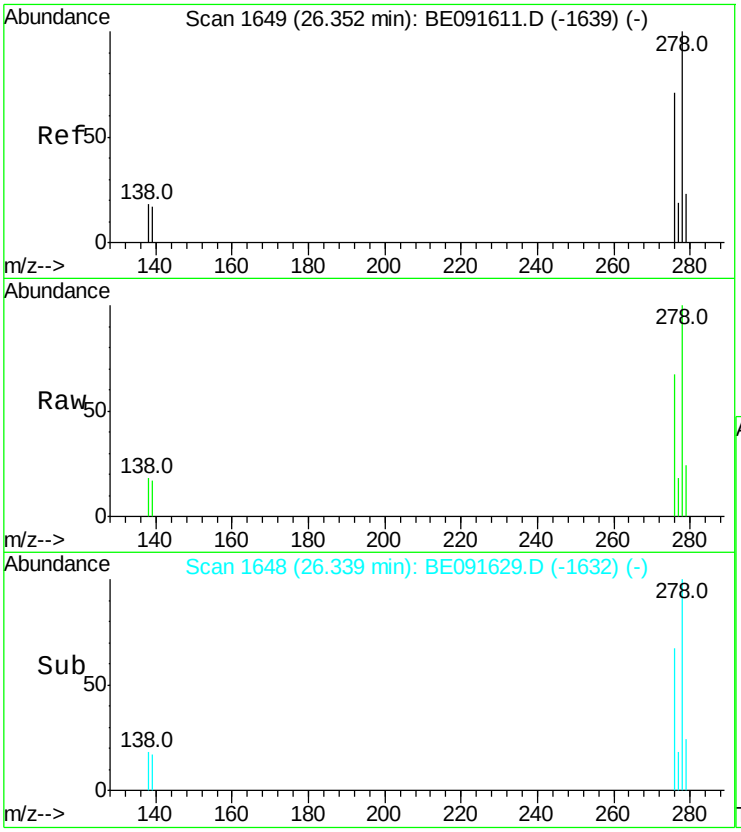


#38
Benzo(a)pyrene
Concen: 4.16 ng
RT: 23.65 min Scan# 1417
Delta R.T. 0.00 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:252 Resp: 311505

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	10.5	11.0	16.4#

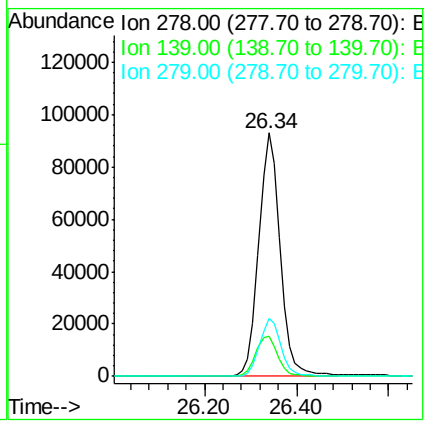




#39
Dibenzo(a,h)anthracene
Concen: 4.08 ng
RT: 26.34 min Scan# 1648
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

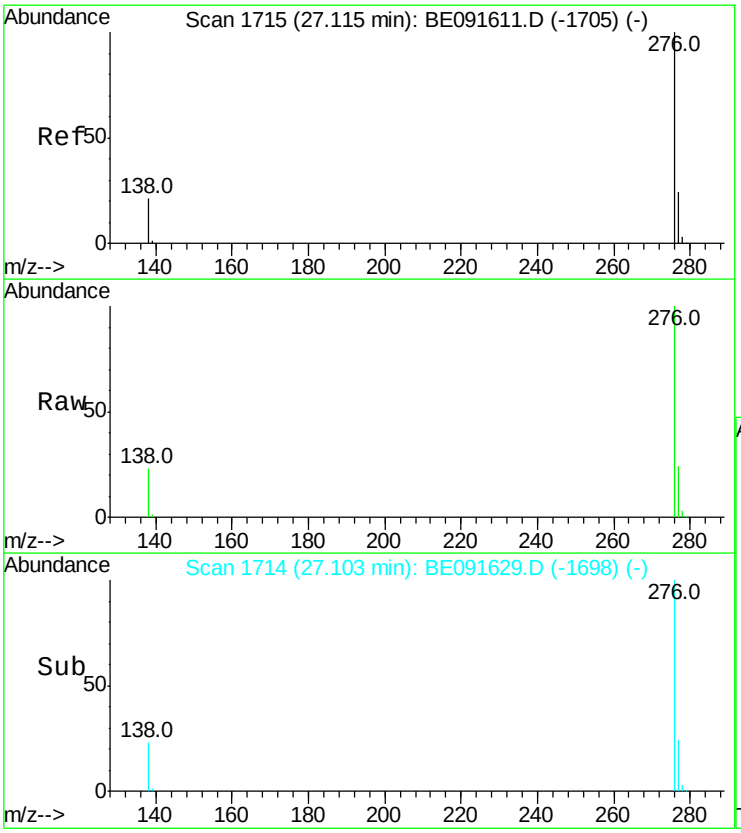
Tgt Ion:278 Resp: 300977

Ion	Ratio	Lower	Upper
278	100		
139	16.6	16.0	24.0
279	23.7	19.4	29.2



Instrument :
BNA_E
ClientSampleId :
PB89639BS

Manual Integrations APPROVED
Sohil
4/12/2016 5:31:40 PM



#40
Benzo(g,h,i)perylene
Concen: 3.96 ng
RT: 27.10 min Scan# 1714
Delta R.T. -0.01 min
Lab File: BE091629.D
Acq: 11 Apr 2016 15:36

Tgt Ion:276 Resp: 300943

Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.6	28.0
138	23.0	20.4	30.6