Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE041116\
Data File : BE091627.D
Acq On : 11 Apr 2016 14:22
Operator : UM/SJ
Sample : PB89606BSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_E
ClientSampleId : PB89606BSD

Manual Integrations APPROVED
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Quant Time: Apr 12 02:03:11 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	42889	5.00	ng		-0.02
7) Naphthalene-d8	10.59	136	208809	5.00	ng		0.00
13) Acenaphthene-d10	14.42	164	128761	5.00	ng		0.00
19) Phenanthrene-d10	17.16	188	310555	5.00	ng		0.00
26) Chrysene-d12	21.31	240	405742	5.00	ng		0.00
35) Perylene-d12	23.76	264	346493	5.00	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.41	112	63020	6.16	ng		0.00
5) Phenol-d6	6.97	99	93018	6.82	ng		0.00
8) Nitrobenzene-d5	8.96	82	41382	3.41	ng		0.00
14) 2,4,6-Tribromophenol	15.90	330	33018	7.04	ng		0.00
15) 2-Fluorobiphenyl	13.05	172	126183	3.52	ng		0.00
29) Terphenyl-d14	19.76	244	201197	3.97	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.35	88	14619	3.08	ng	#	93
3) n-Nitrosodimethylamine	3.64	42	21949	3.34	ng	#	92
6) bis(2-Chloroethyl)ether	7.23	93	39244	3.32	ng	#	76
9) Nitrobenzene	8.99	77	42740	2.88	ng		94
10) Naphthalene	10.63	128	138782	3.22	ng		98
11) Hexachlorobutadiene	10.92	225	21580	3.41	ng		98
12) 2-Methylnaphthalene	12.24	142	98950	3.60	ng		98
16) Acenaphthylene	14.14	152	171600	3.43	ng	#	86
17) Acenaphthene	14.47	154	106936	3.38	ng		93
18) Fluorene	15.46	166	135538	3.43	ng		98
20) 4-Bromophenyl-phenylether	16.34	248	38126	3.48	ng		95
21) Hexachlorobenzene	16.47	284	39527m	3.48	ng		
22) Pentachlorophenol	16.79	266	39368	6.67	ng	#	87
23) Phenanthrene	17.19	178	248307	3.50	ng		99
24) Anthracene	17.29	178	231858	3.69	ng		99
25) Fluoranthene	19.20	202	270566	3.61	ng		97
27) Benzidine	19.38	184	95789	2.58	ng	#	76
28) Pyrene	19.55	202	292984	3.61	ng		98
30) Benzo(a)anthracene	21.29	228	349162m	3.85	ng		
31) 3,3'-Dichlorobenzidine	21.24	252	59211	1.03	ng	#	73
32) Chrysene	21.33	228	284037m	3.45	ng		
33) Bis(2-ethylhexyl)phthalate	21.22	149	109481	1.85	ng	#	80
34) Indeno(1,2,3-cd)pyrene	26.32	276	325938	3.55	ng		97
36) Benzo(b)fluoranthene	23.00	252	284837	3.54	ng		97
37) Benzo(k)fluoranthene	23.04	252	306731	3.87	ng		96
38) Benzo(a)pyrene	23.65	252	275060	3.68	ng	#	97
39) Dibenzo(a,h)anthracene	26.34	278	273147	3.71	ng	#	96
40) Benzo(g,h,i)perylene	27.10	276	269355	3.55	ng		96

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

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Manual Integrations APPROVED
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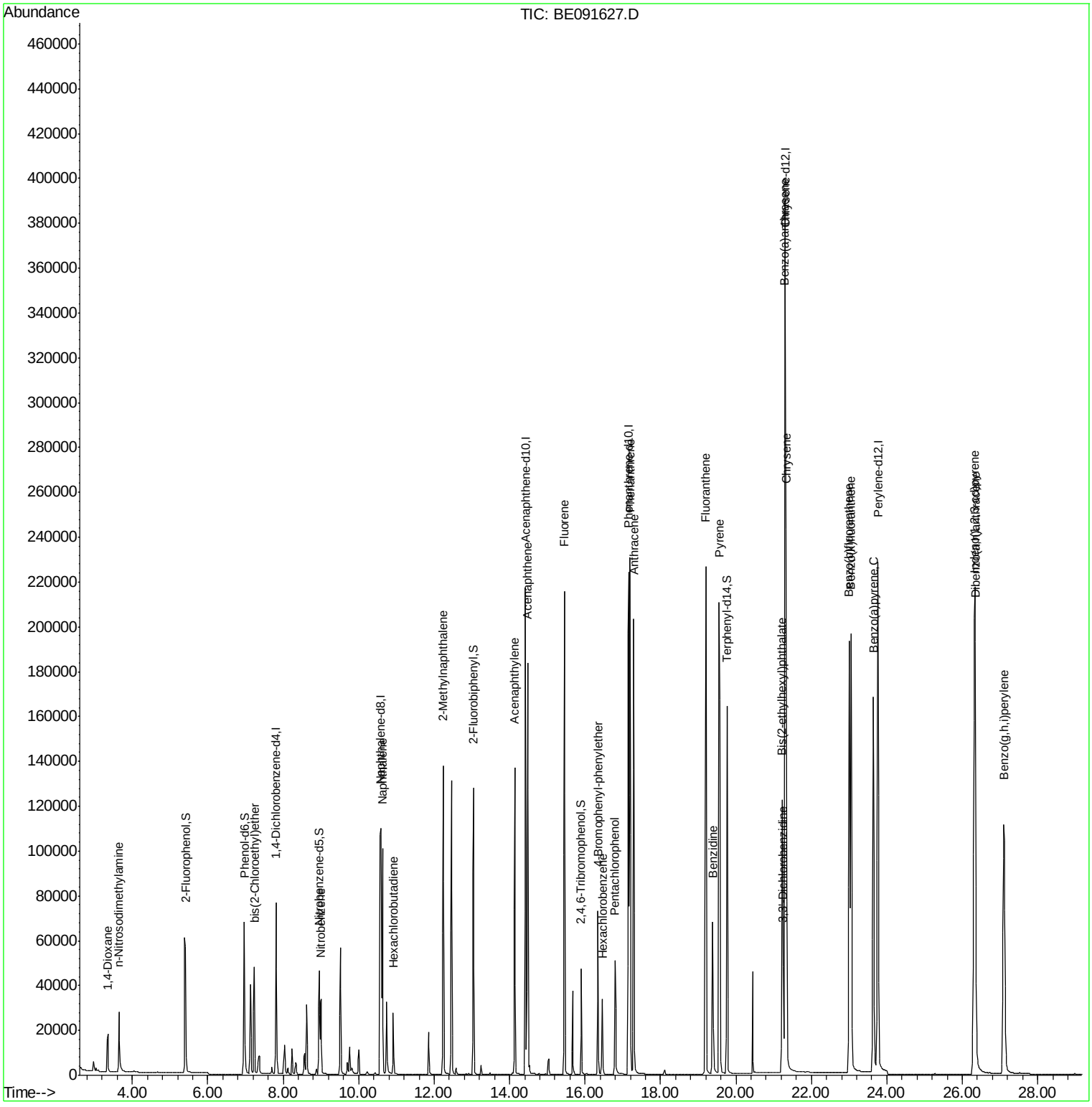
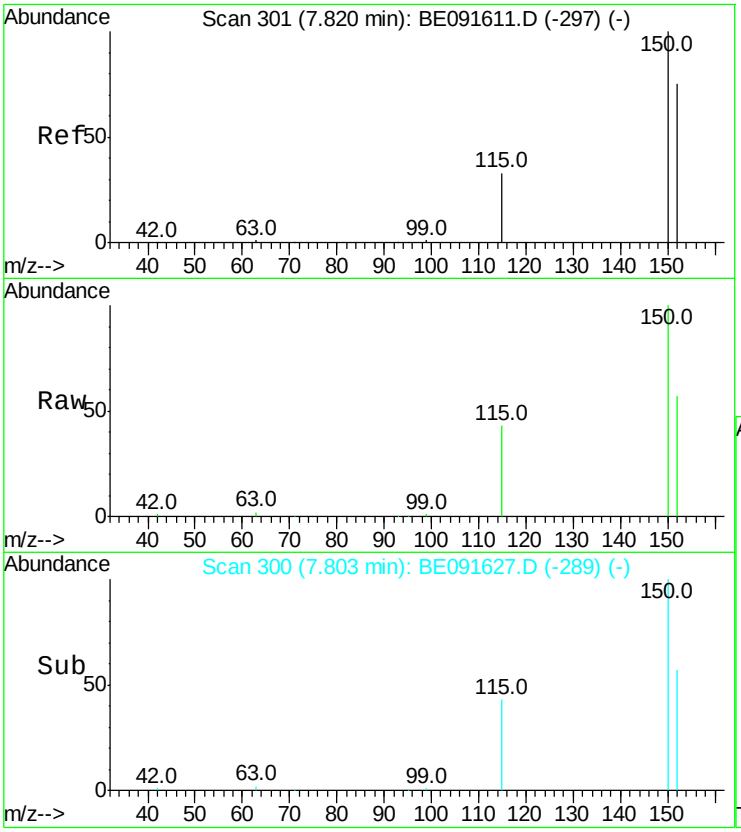
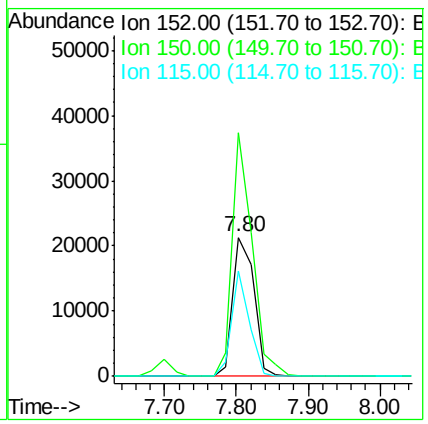




#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.80 min Scan# 300
Delta R.T. -0.02 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:152 Resp: 42889

Ion	Ratio	Lower	Upper
152	100		
150	174.8	122.6	183.8
115	75.2	52.8	79.2



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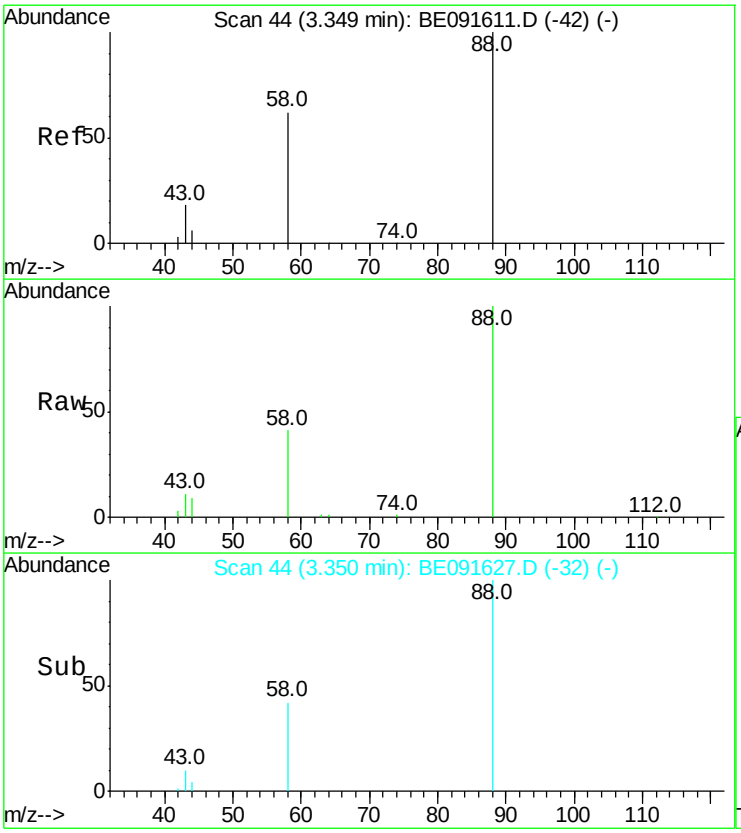
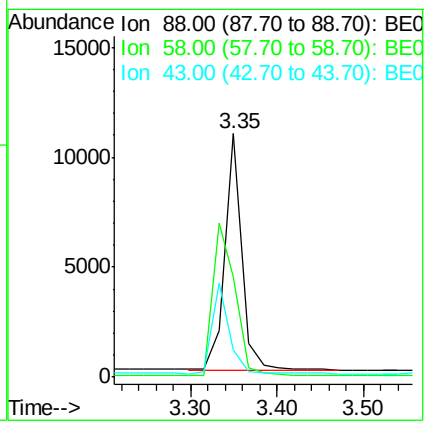
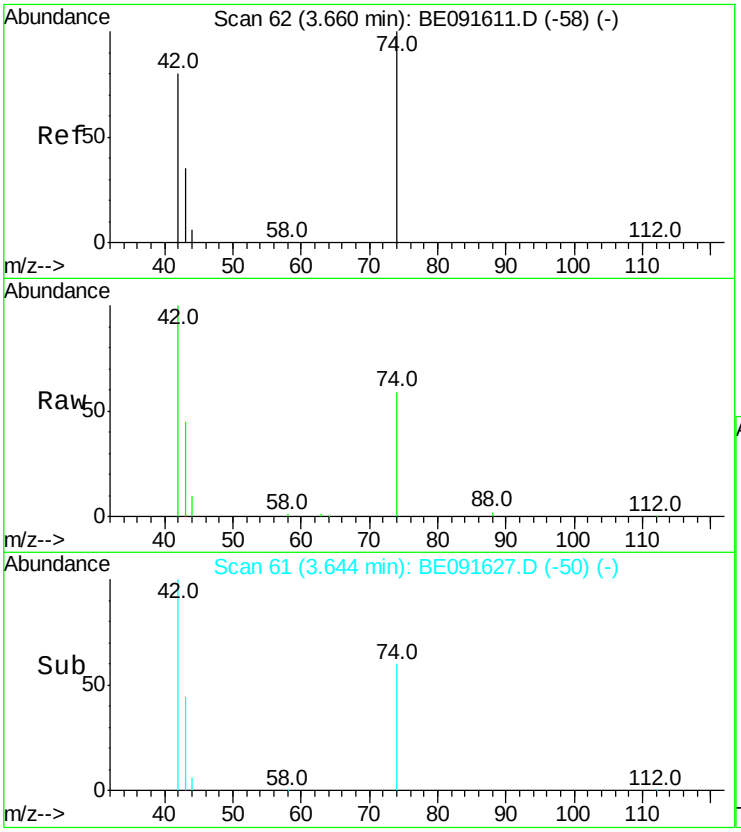


#2
1,4-Dioxane
Concen: 3.08 ng
RT: 3.35 min Scan# 44
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion: 88 Resp: 14619

Ion	Ratio	Lower	Upper
88	100		
58	85.7	65.8	98.6
43	39.2	25.3	37.9#

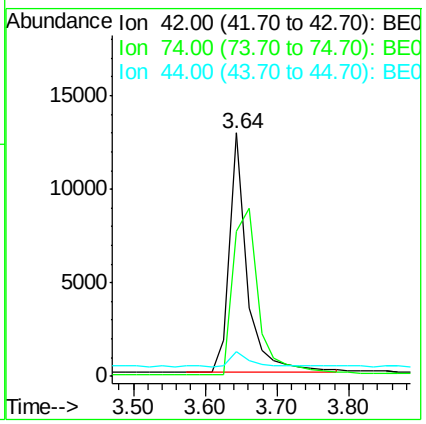




#3
n-Nitrosodimethylamine
Concen: 3.34 ng
RT: 3.64 min Scan# 61
Delta R.T. -0.02 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion: 42 Resp: 21949

Ion	Ratio	Lower	Upper
42	100		
74	101.1	87.9	131.9
44	6.4	6.6	9.8#



Instrument :
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ClientSampleId :
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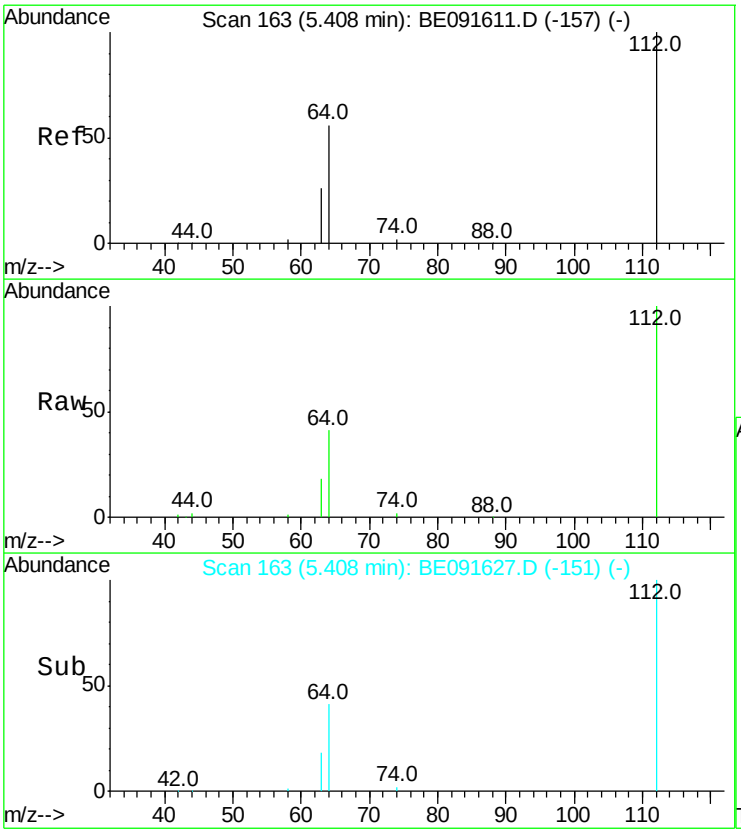
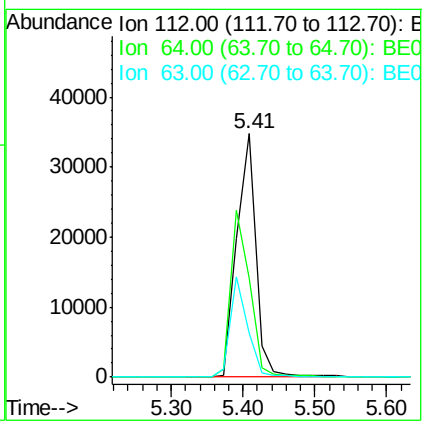
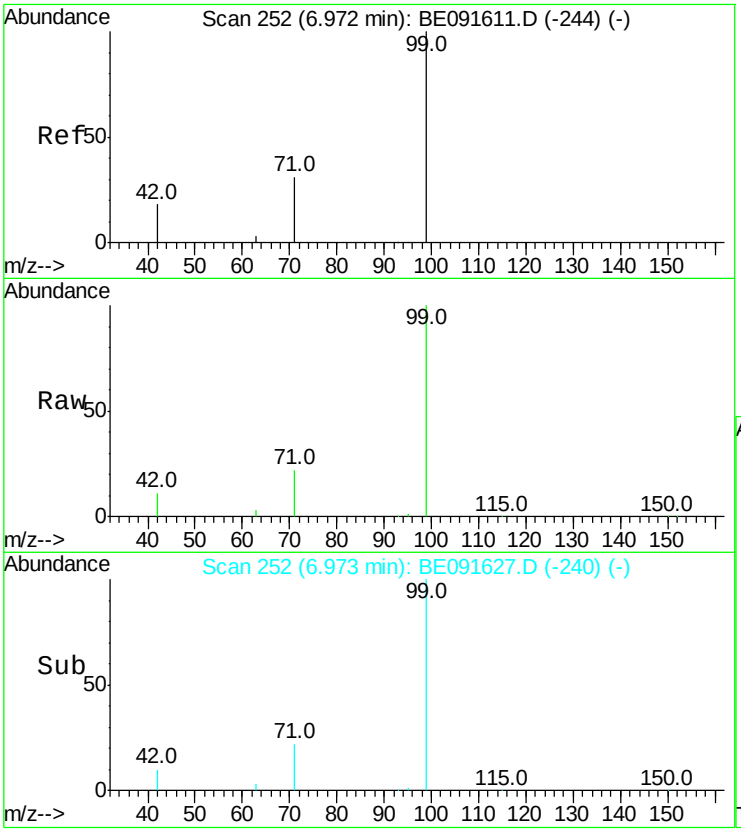


#4
2-Fluorophenol
Concen: 6.16 ng
RT: 5.41 min Scan# 163
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:112 Resp: 63020

Ion	Ratio	Lower	Upper
112	100		
64	68.0	30.9	46.3#
63	37.1	16.7	25.1#

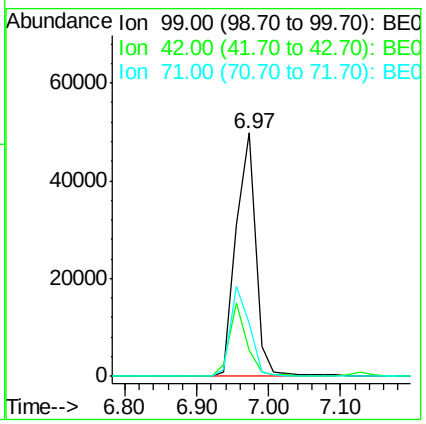




#5
Phenol-d6
Concen: 6.82 ng
RT: 6.97 min Scan# 252
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion: 99 Resp: 93018

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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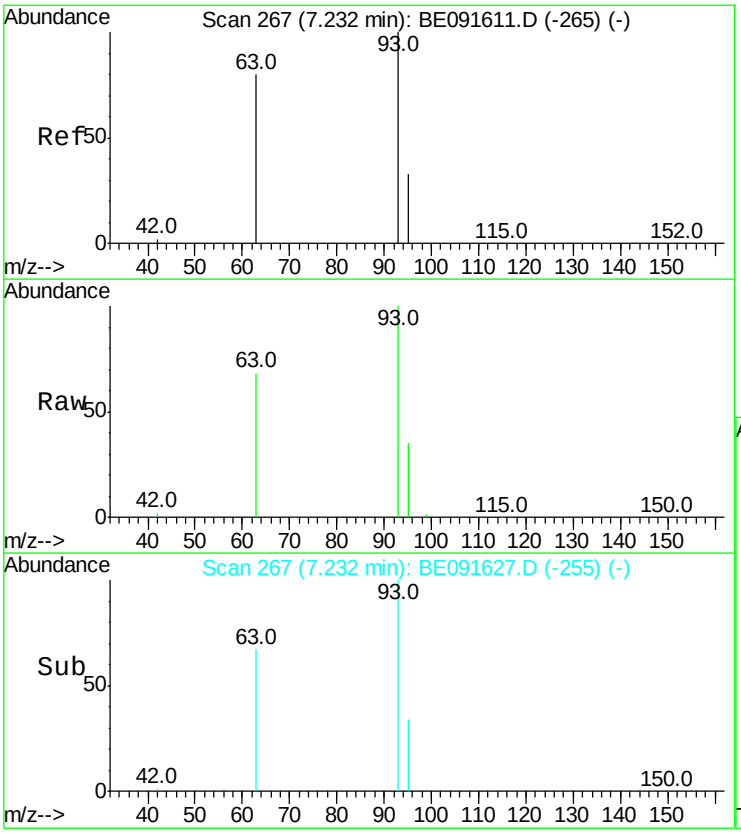
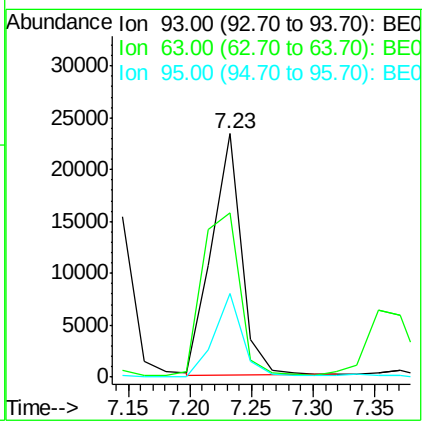
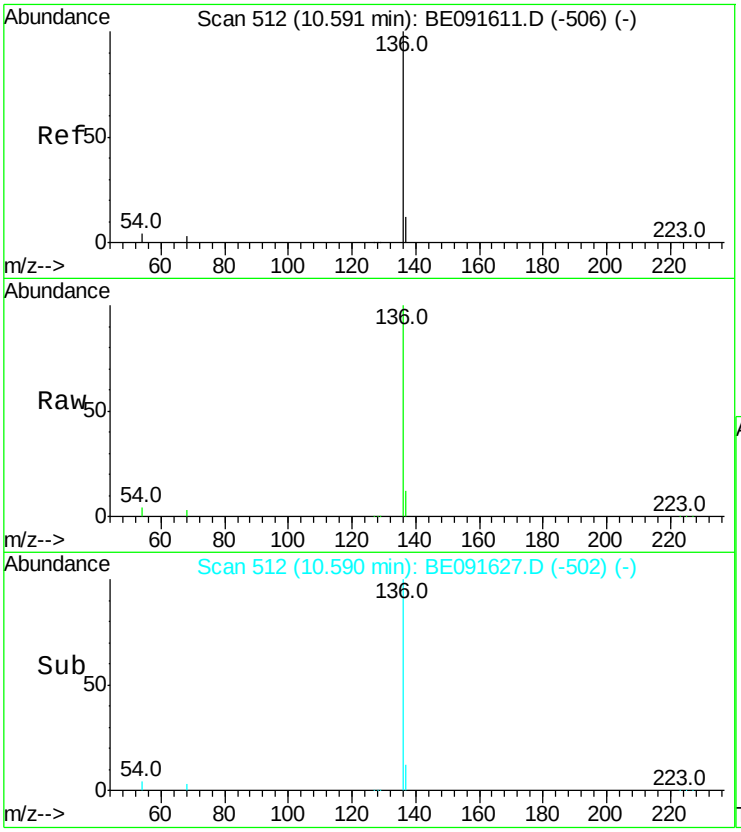


#6
bis(2-Chloroethyl)ether
Concen: 3.32 ng
RT: 7.23 min Scan# 267
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion: 93 Resp: 39244

Ion	Ratio	Lower	Upper
93	100		
63	85.7	49.5	74.3#
95	32.6	22.2	33.4

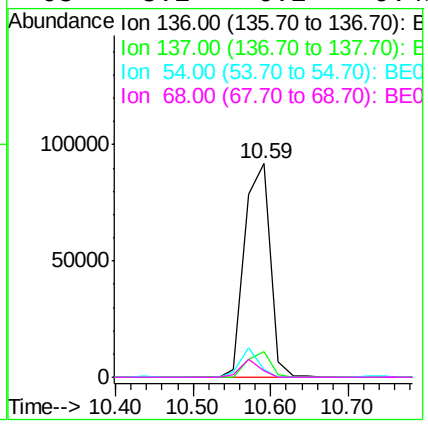




#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.59 min Scan# 512
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:136 Resp: 208809

Ion	Ratio	Lower	Upper
136	100		
137	12.0	8.9	13.3
54	3.8	8.2	12.4#
68	3.2	6.2	9.4#



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ClientSampleId :
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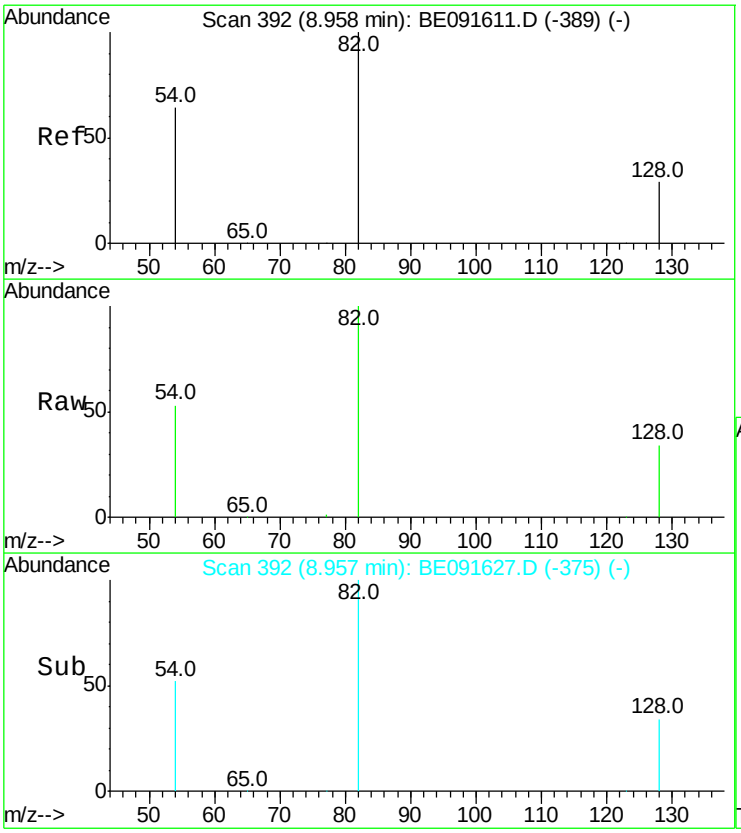
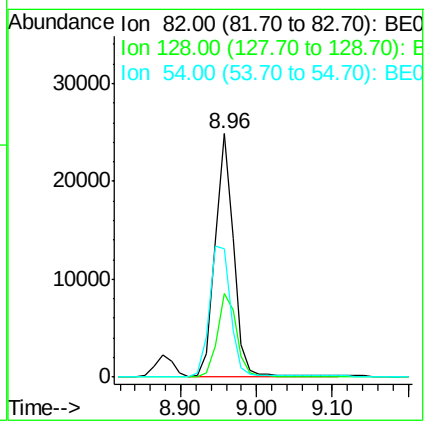
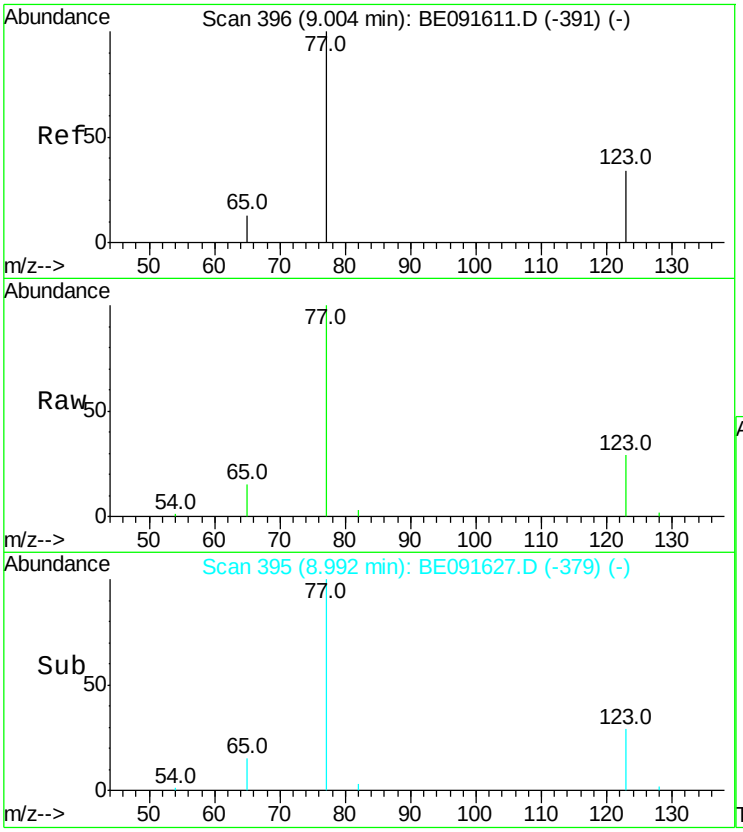


#8
Nitrobenzene-d5
Concen: 3.41 ng
RT: 8.96 min Scan# 392
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion: 82 Resp: 41382

Ion	Ratio	Lower	Upper
82	100		
128	34.1	25.4	38.0
54	52.5	48.4	72.6

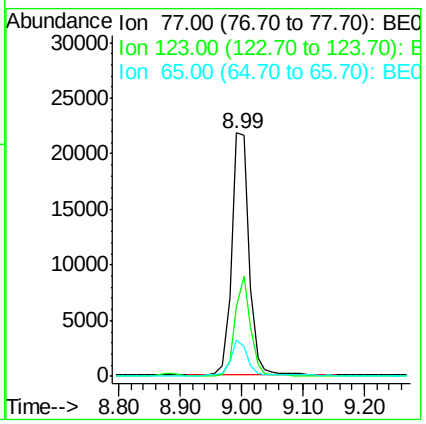




#9
Nitrobenzene
Concen: 2.88 ng
RT: 8.99 min Scan# 395
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion: 77 Resp: 42740

Ion	Ratio	Lower	Upper
77	100		
123	36.8	26.9	40.3
65	13.9	9.4	14.2



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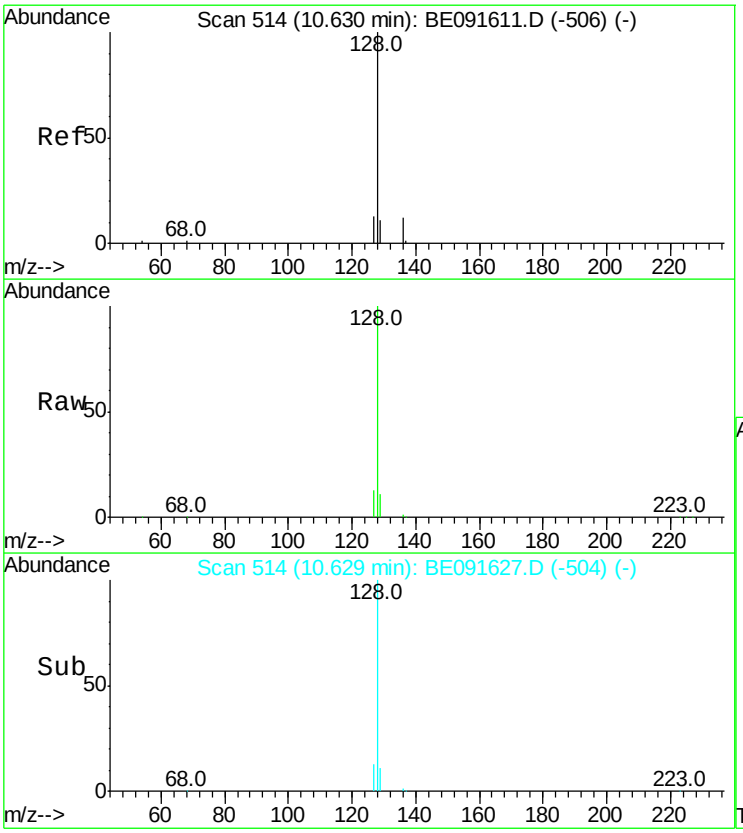
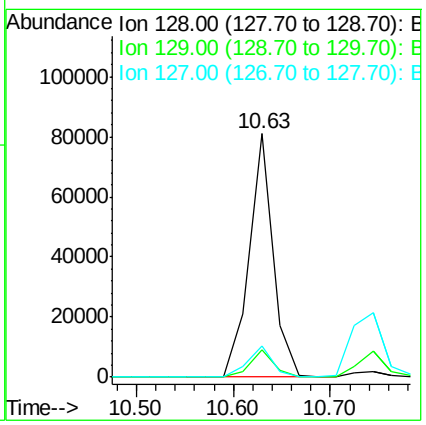
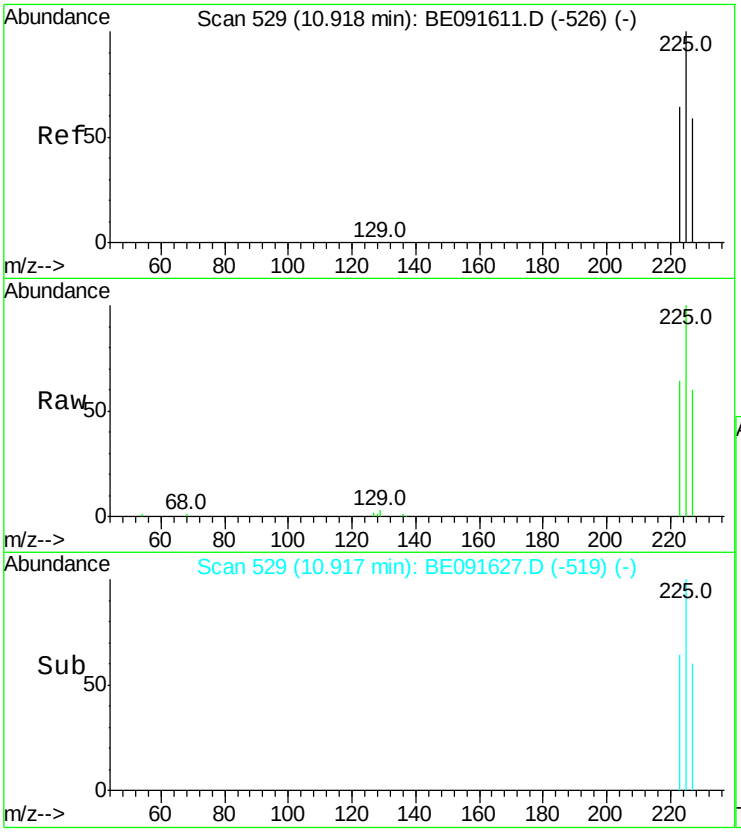


#10
Naphthalene
Concen: 3.22 ng
RT: 10.63 min Scan# 514
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:128 Resp: 138782

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.3	13.9
127	12.7	10.7	16.1

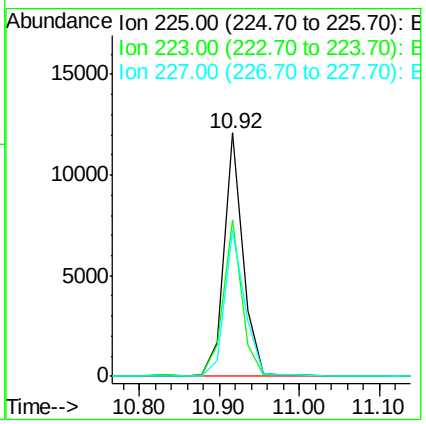




#11
Hexachlorobutadiene
Concen: 3.41 ng
RT: 10.92 min Scan# 529
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:225 Resp: 21580

Ion	Ratio	Lower	Upper
225	100		
223	64.2	49.0	73.6
227	63.8	50.3	75.5



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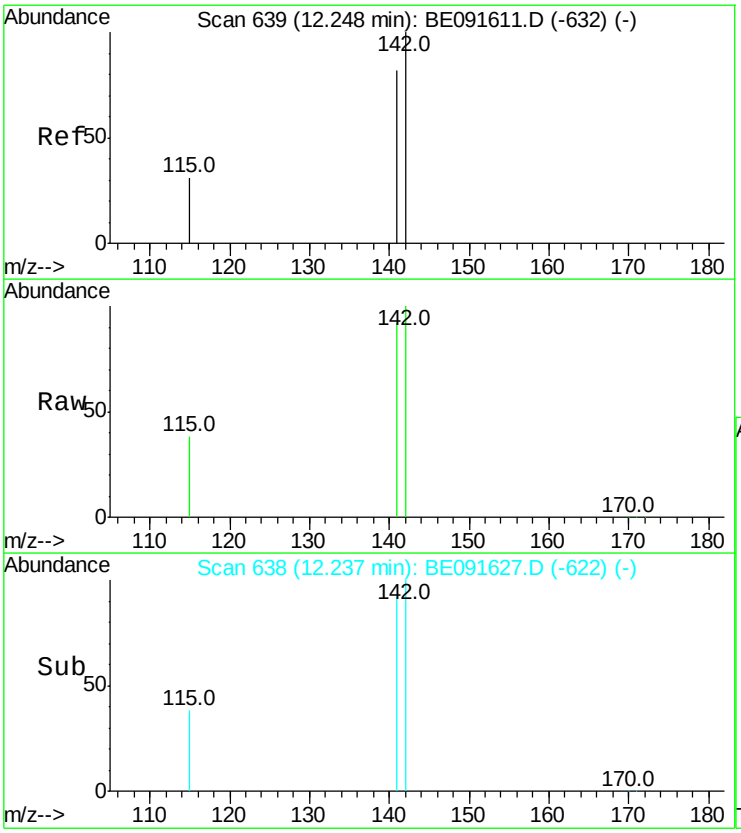
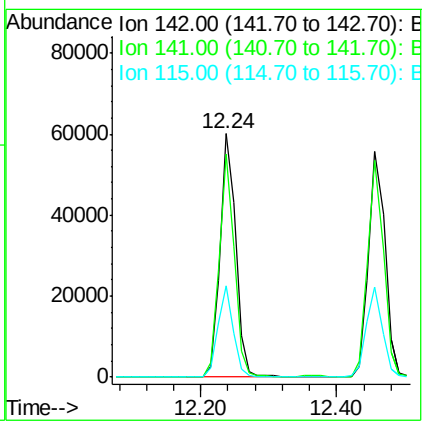
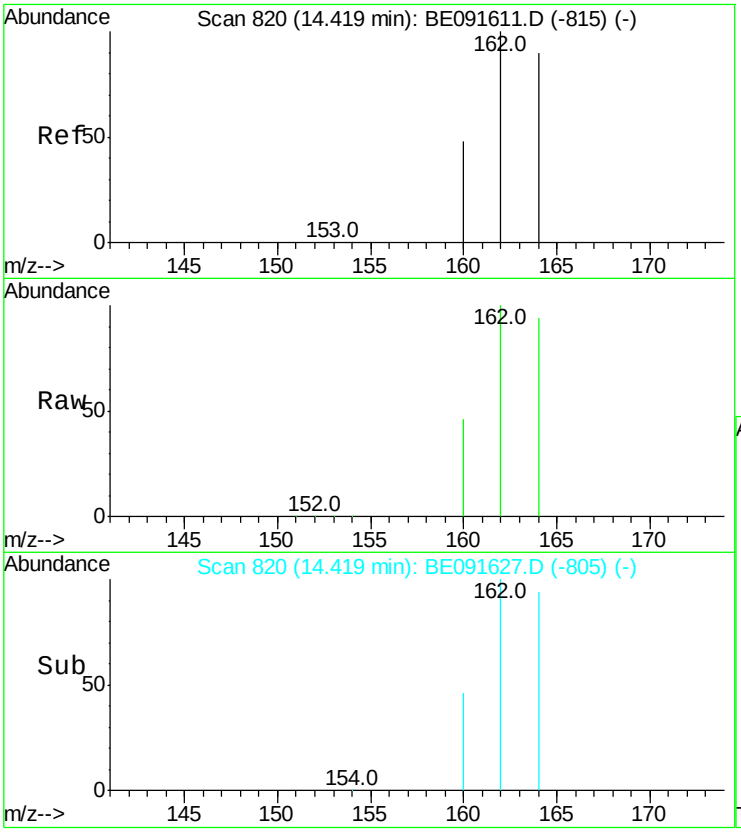


#12
2-Methylnaphthalene
Concen: 3.60 ng
RT: 12.24 min Scan# 638
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:142 Resp: 98950

Ion	Ratio	Lower	Upper
142	100		
141	91.9	71.4	107.0
115	37.7	30.3	45.5

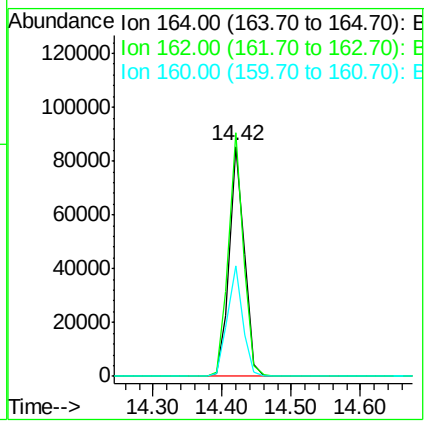




#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.42 min Scan# 820
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:164 Resp: 128761

Ion	Ratio	Lower	Upper
164	100		
162	106.0	85.3	127.9
160	48.3	46.2	69.2



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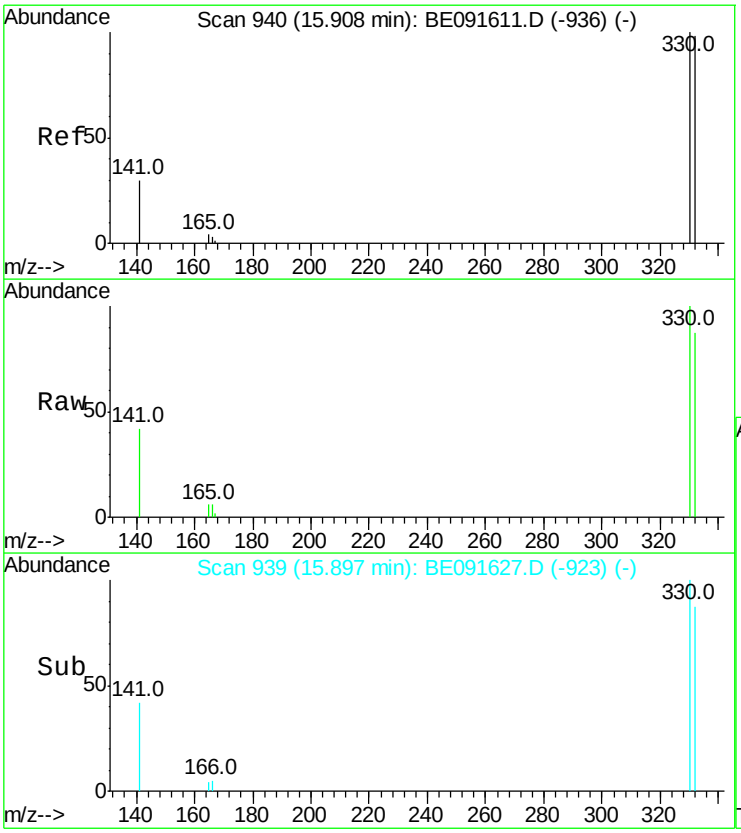
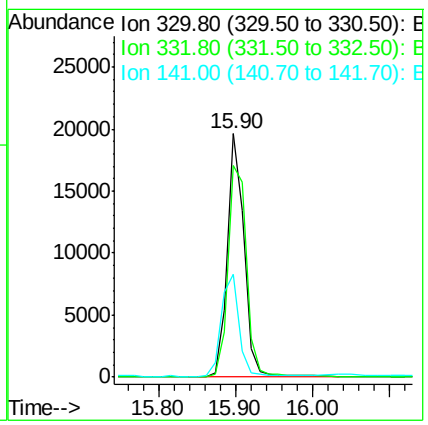
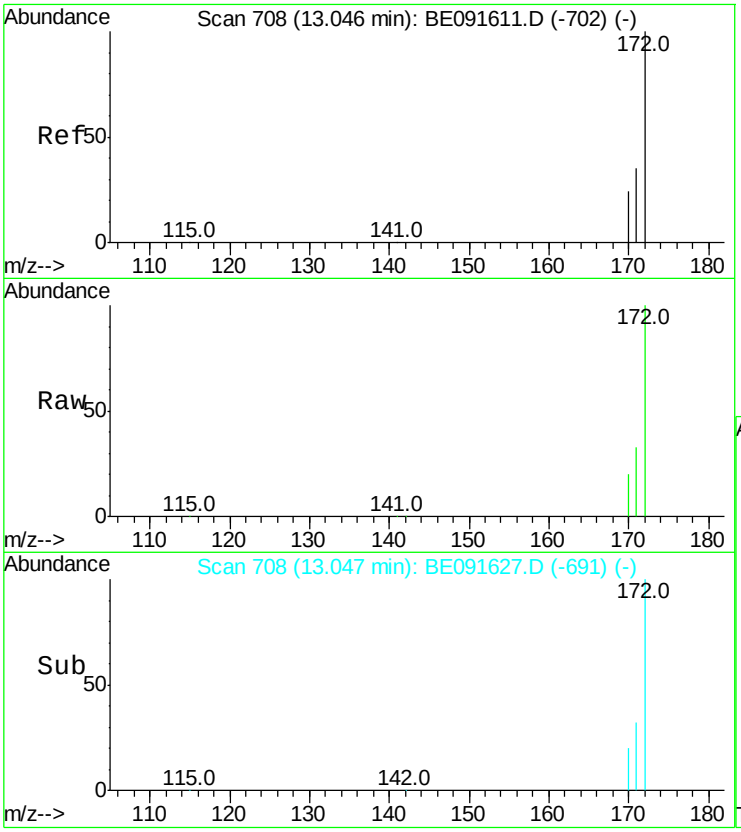


#14
2,4,6-Tribromophenol
Concen: 7.04 ng
RT: 15.90 min Scan# 939
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:330 Resp: 33018

Ion	Ratio	Lower	Upper
330	100		
332	96.9	79.1	118.7
141	39.5	125.4	188.0#

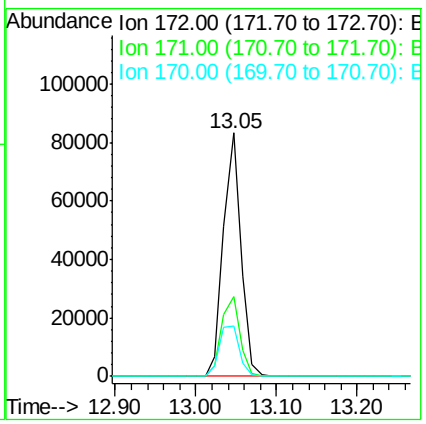




#15
2-Fluorobiphenyl
Concen: 3.52 ng
RT: 13.05 min Scan# 708
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:172 Resp: 126183

Ion	Ratio	Lower	Upper
172	100		
171	32.7	28.8	43.2
170	20.4	19.3	28.9



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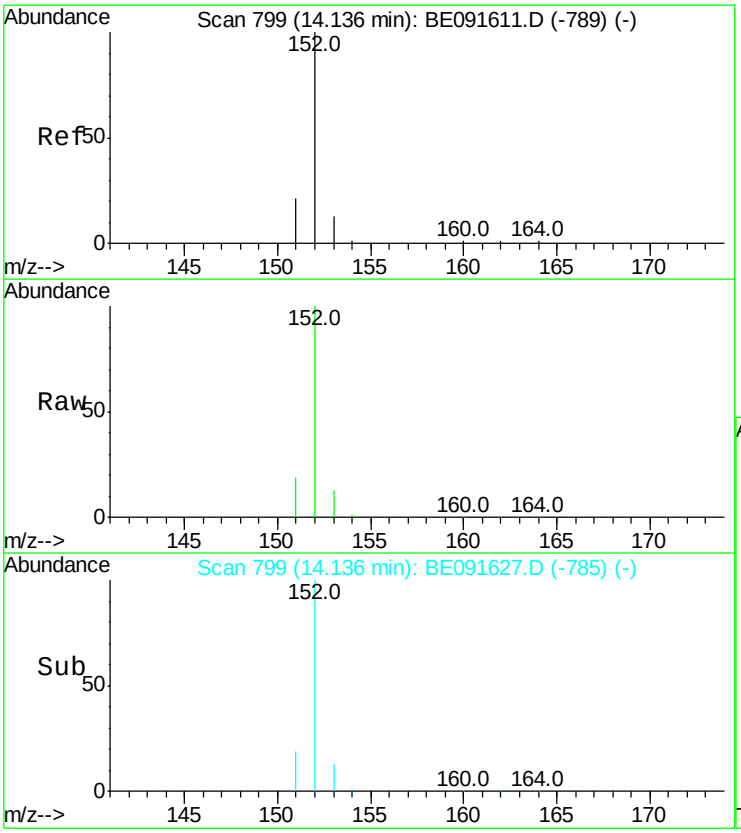
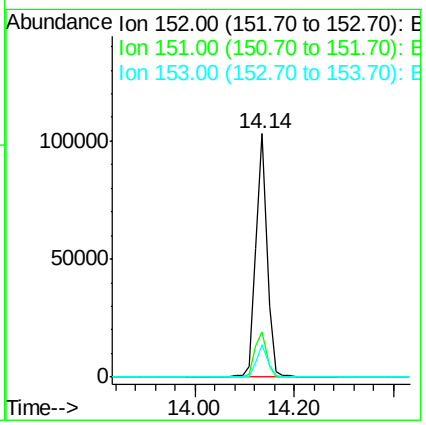
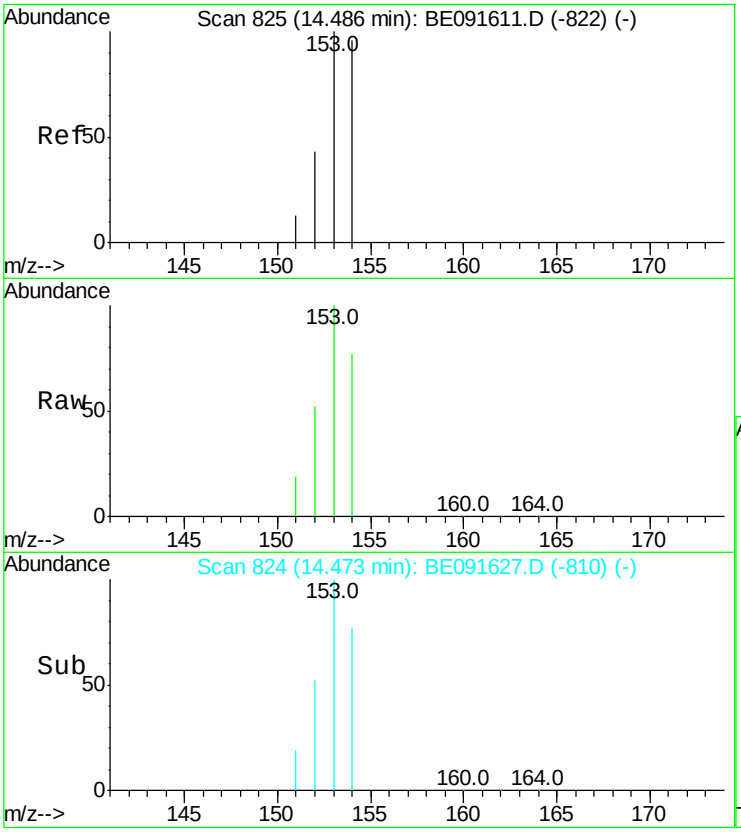


#16
Acenaphthylene
Concen: 3.43 ng
RT: 14.14 min Scan# 799
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:152 Resp: 171600

Ion	Ratio	Lower	Upper
152	100		
151	20.1	3.9	5.9#
153	13.5	10.3	15.5

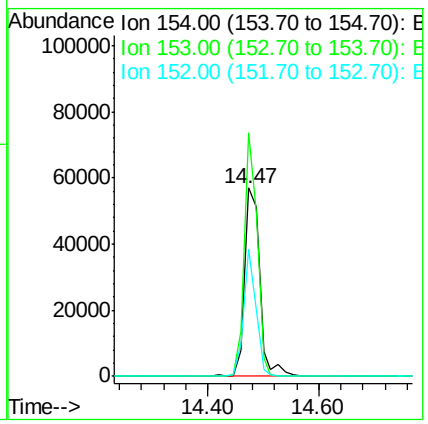




#17
Acenaphthene
Concen: 3.38 ng
RT: 14.47 min Scan# 824
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:154 Resp: 106936

Ion	Ratio	Lower	Upper
154	100		
153	108.5	80.0	120.0
152	53.6	40.0	60.0



Instrument :
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ClientSampleId :
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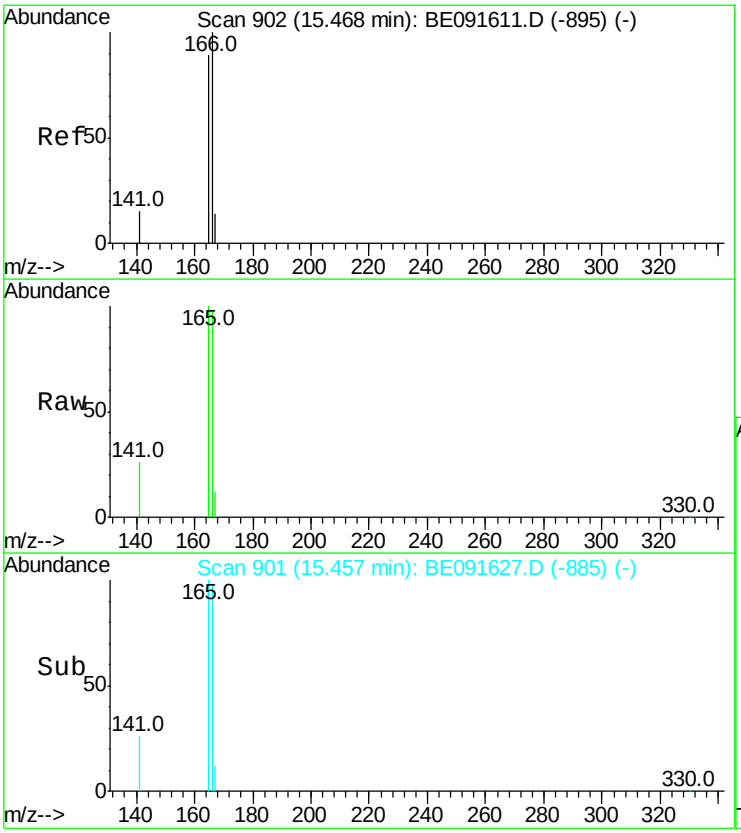
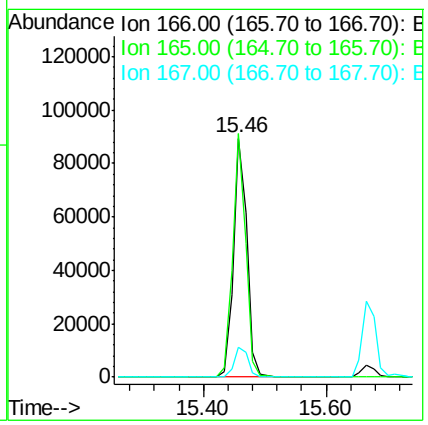
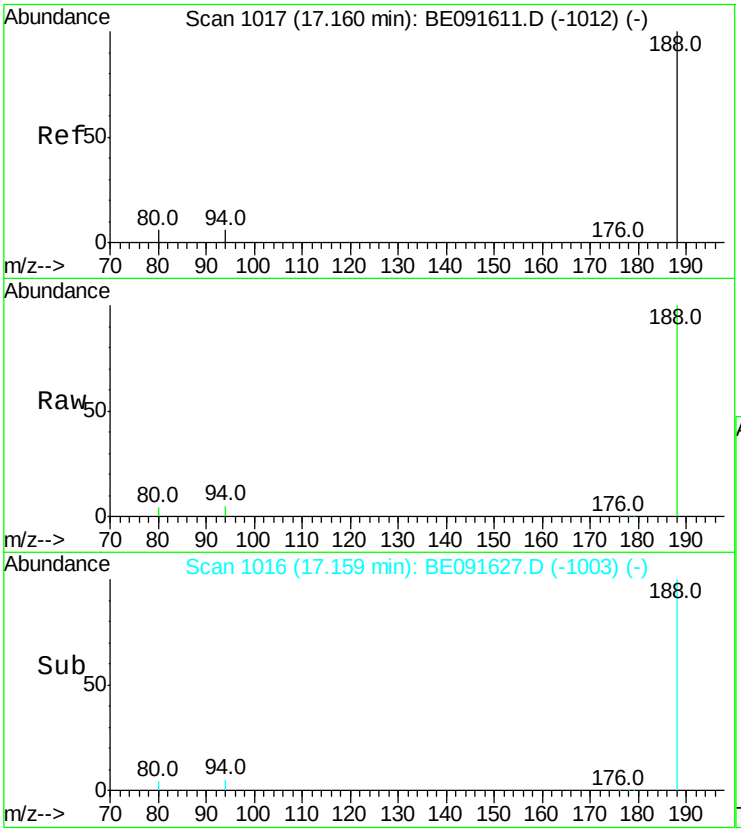


#18
Fluorene
Concen: 3.43 ng
RT: 15.46 min Scan# 901
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:166 Resp: 135538

Ion	Ratio	Lower	Upper
166	100		
165	98.9	80.8	121.2
167	13.4	10.9	16.3





#19
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1016
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:188 Resp: 310555

Ion	Ratio	Lower	Upper
188	100		
94	5.2	8.7	13.1#
80	4.5	9.4	14.0#

Instrument :
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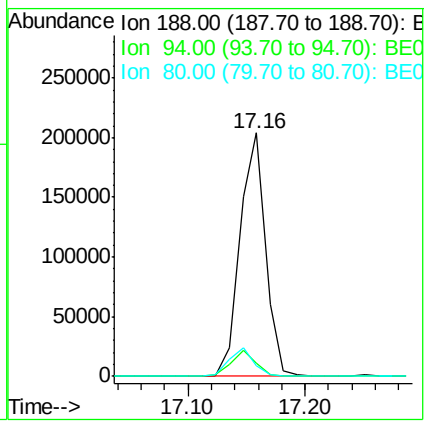
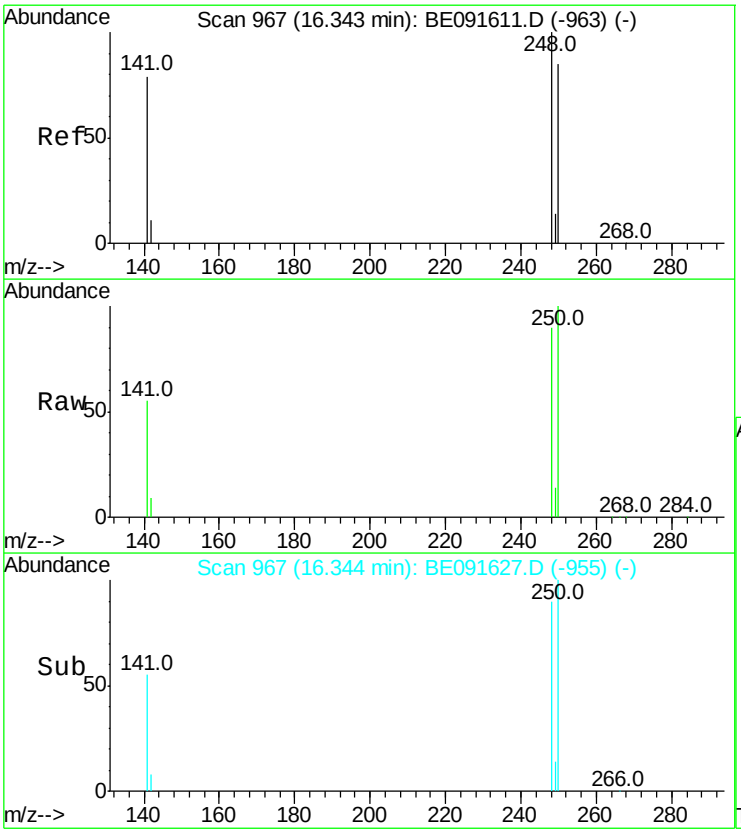
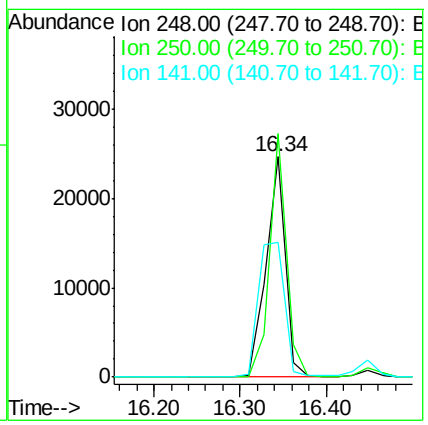


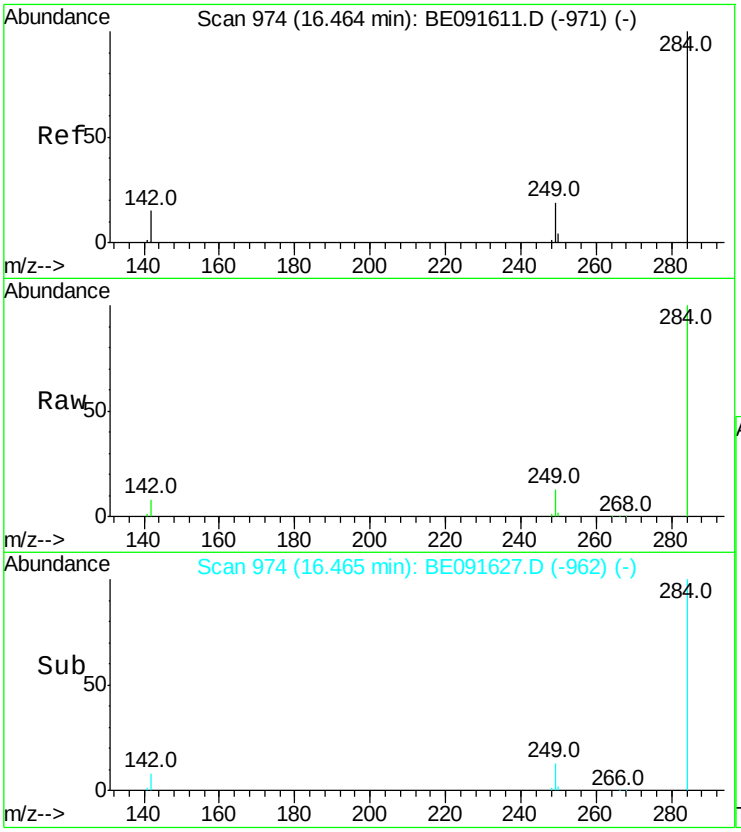


#20
4-Bromophenyl-phenylether
Concen: 3.48 ng
RT: 16.34 min Scan# 967
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:248 Resp: 38126

Ion	Ratio	Lower	Upper
248	100		
250	97.6	80.5	120.7
141	83.6	72.0	108.0

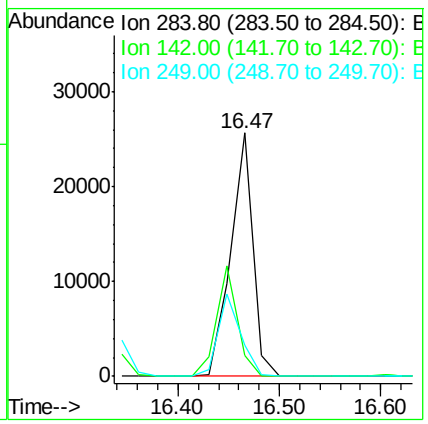




#21
Hexachlorobenzene
Concen: 3.48 ng m
RT: 16.47 min Scan# 974
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:284 Resp: 39527

Ion	Ratio	Lower	Upper
284	100		
142	41.4	32.2	48.2
249	32.9	25.4	38.2



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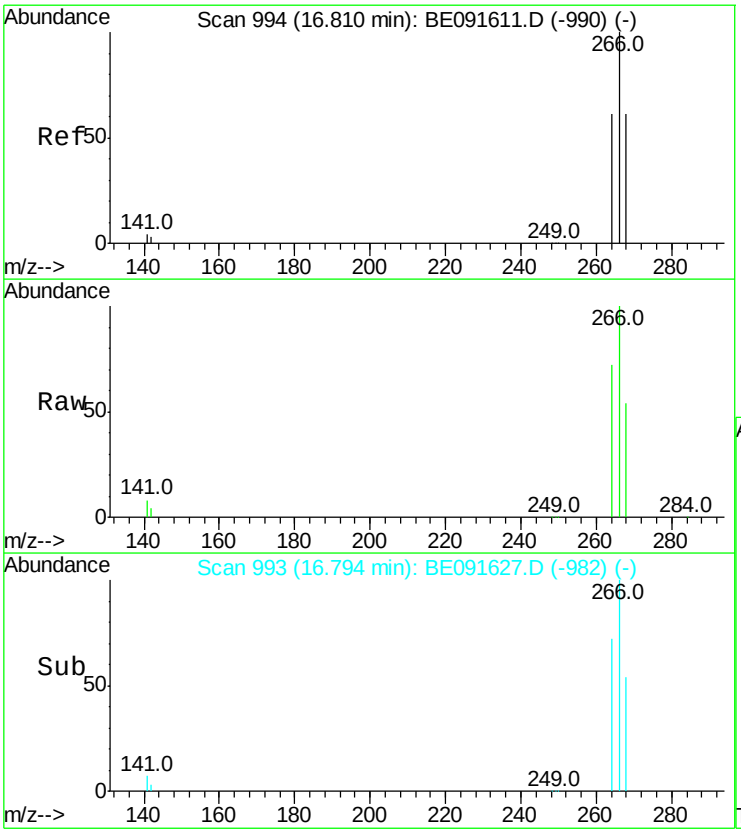
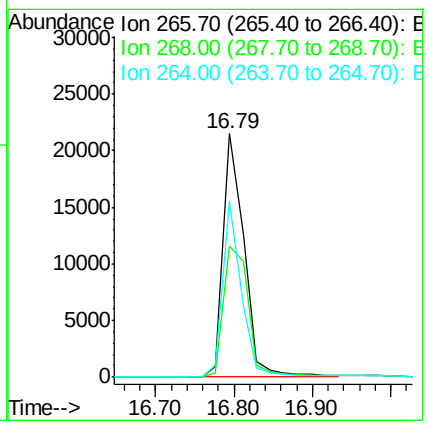
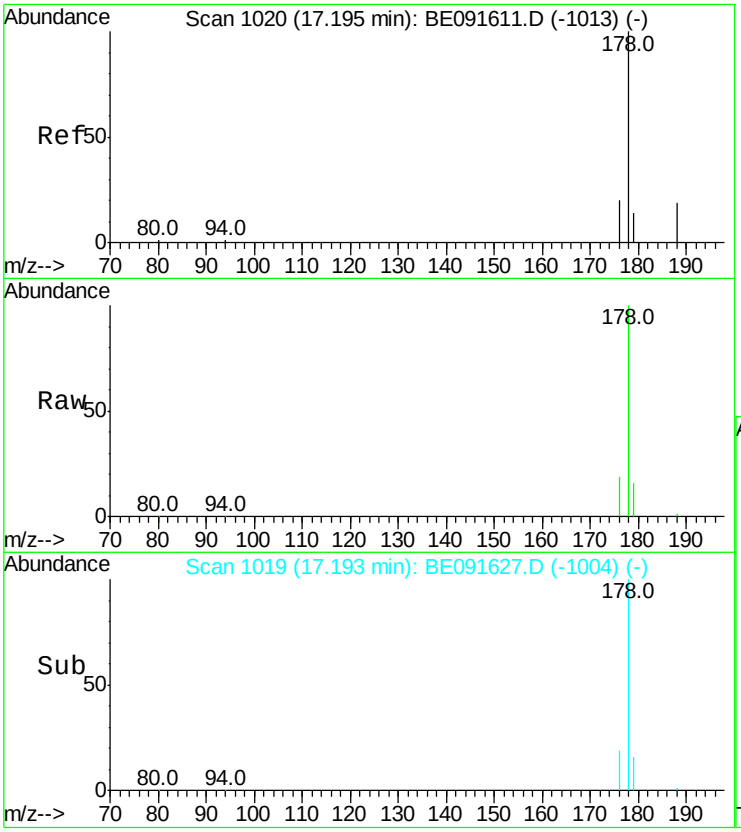


#22
Pentachlorophenol
Concen: 6.67 ng
RT: 16.79 min Scan# 993
Delta R.T. -0.02 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:266 Resp: 39368

Ion	Ratio	Lower	Upper
266	100		
268	53.6	58.2	87.2#
264	72.2	56.2	84.4

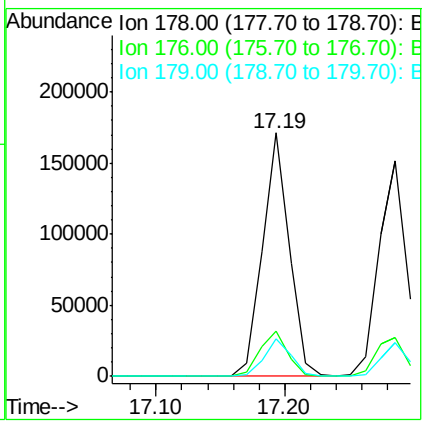




#23
Phenanthrene
Concen: 3.50 ng
RT: 17.19 min Scan# 1019
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:178 Resp: 248307

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.4	12.6	18.8



Instrument :
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ClientSampleId :
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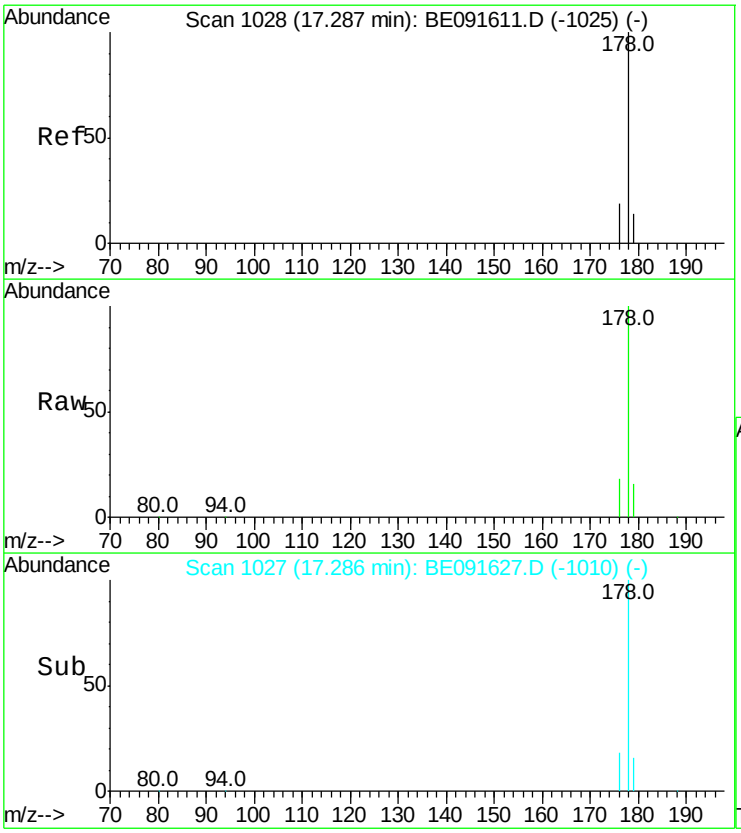
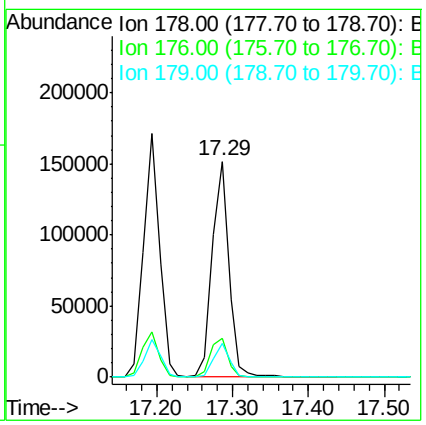
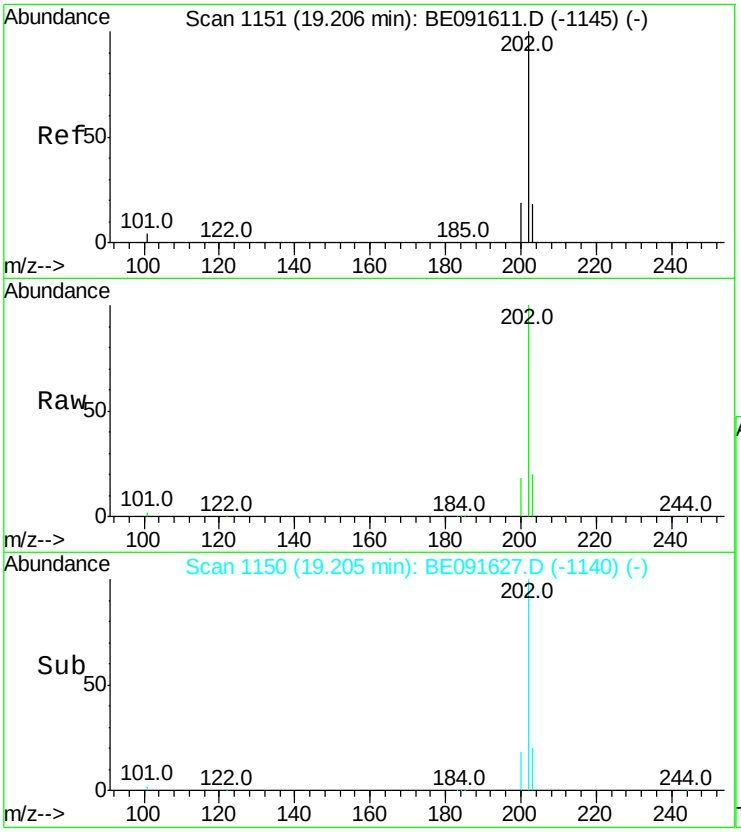


#24
Anthracene
Concen: 3.69 ng
RT: 17.29 min Scan# 1027
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:178 Resp: 231858

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.6	21.8
179	15.1	11.8	17.6

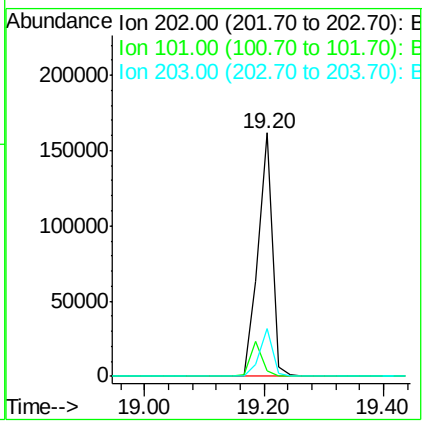




#25
Fluoranthene
Concen: 3.61 ng
RT: 19.20 min Scan# 1150
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:202 Resp: 270566

Ion	Ratio	Lower	Upper
202	100		
101	12.0	11.0	16.6
203	18.0	13.9	20.9



Instrument :
BNA_E
ClientSampleId :
PB89606BSD

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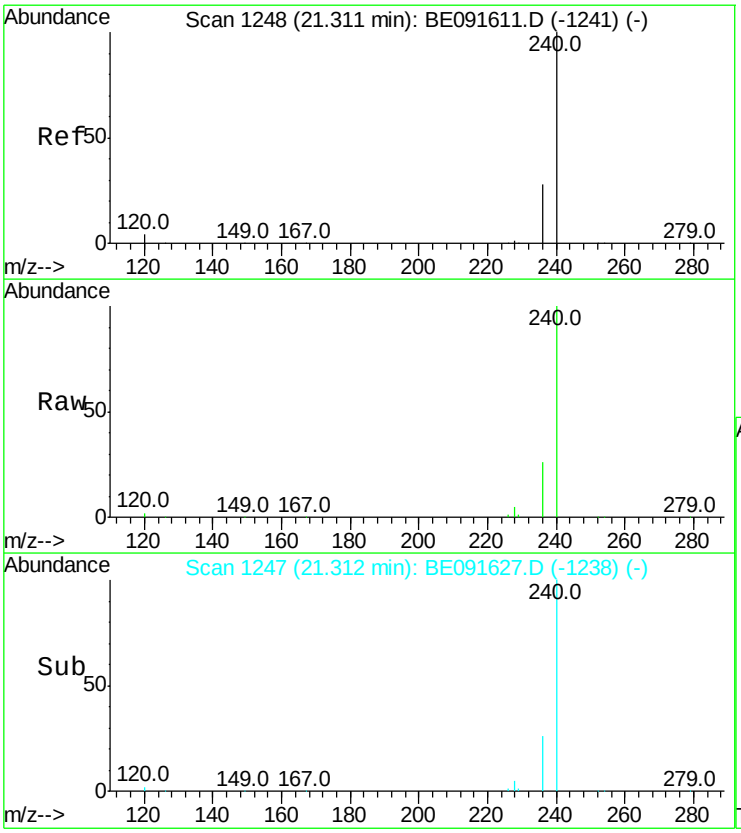
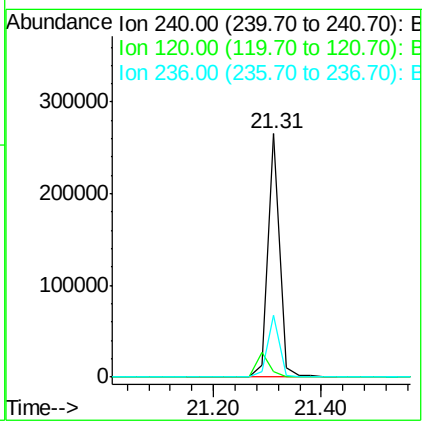
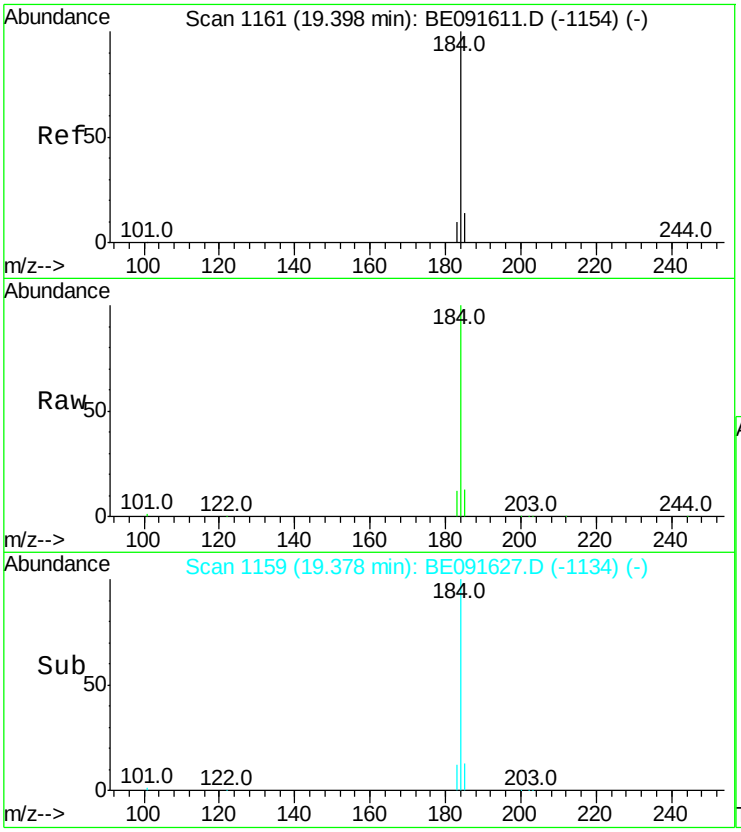


#26
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1247
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:240 Resp: 405742

Ion	Ratio	Lower	Upper
240	100		
120	2.0	11.0	16.4#
236	25.6	21.7	32.5

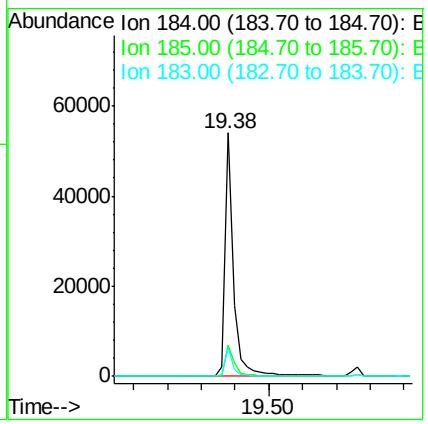




#27
Benzidine
Concen: 2.58 ng
RT: 19.38 min Scan# 1159
Delta R.T. -0.02 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:184 Resp: 95789

Ion	Ratio	Lower	Upper
184	100		
185	12.8	22.3	33.5#
183	11.8	16.4	24.6#



Instrument :
BNA_E
ClientSampleId :
PB89606BSD

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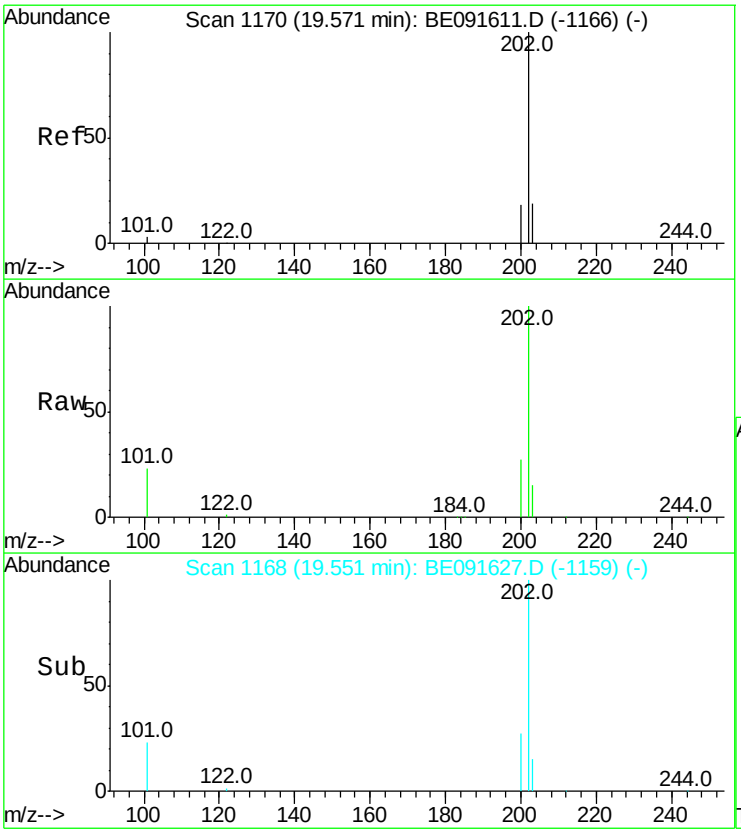
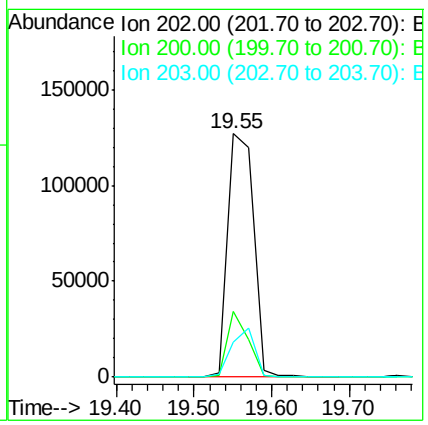
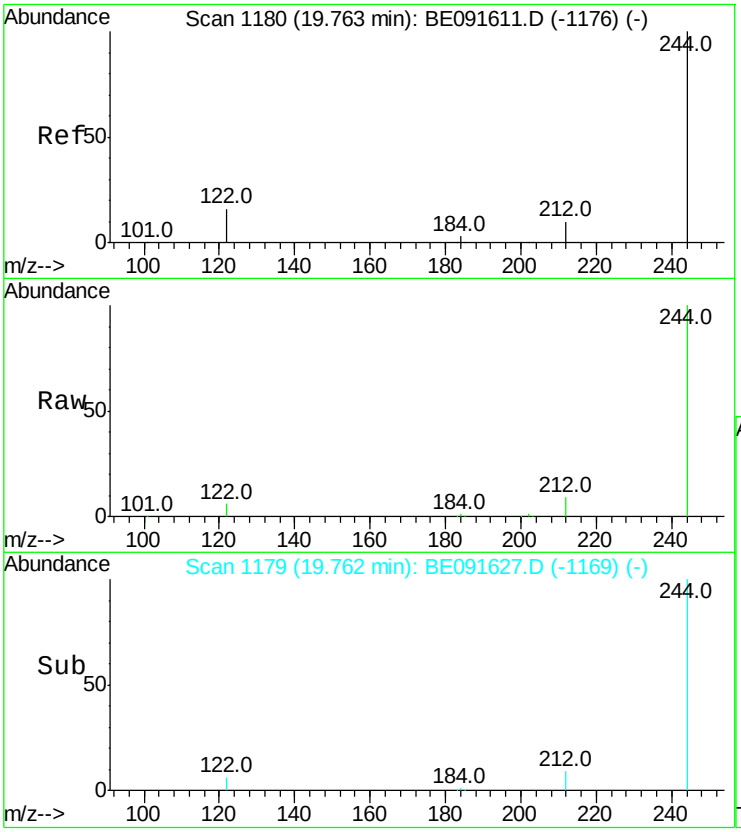


#28
Pyrene
Concen: 3.61 ng
RT: 19.55 min Scan# 1168
Delta R.T. -0.02 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:202 Resp: 292984

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.8	25.2
203	18.2	14.0	21.0





#29
Terphenyl-d14
Concen: 3.97 ng
RT: 19.76 min Scan# 1179
Delta R.T. -0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:244 Resp: 201197

Ion	Ratio	Lower	Upper
244	100		
212	9.1	6.9	10.3
122	6.0	11.0	16.4#

Instrument :
BNA_E
ClientSampleId :
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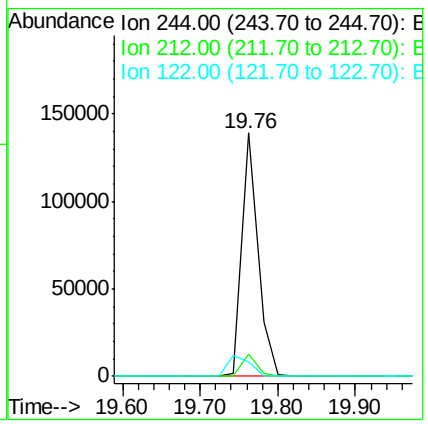
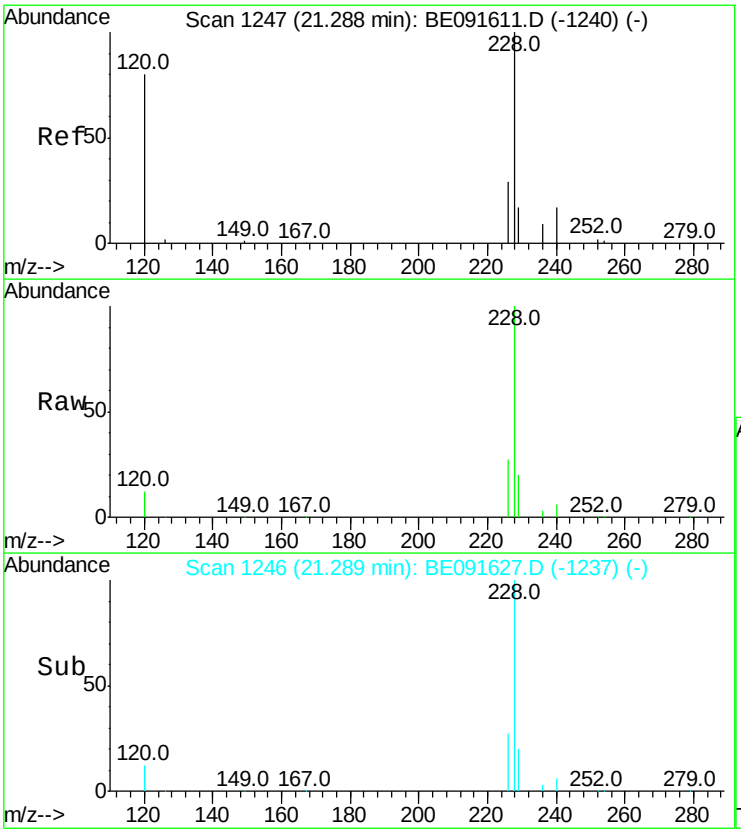
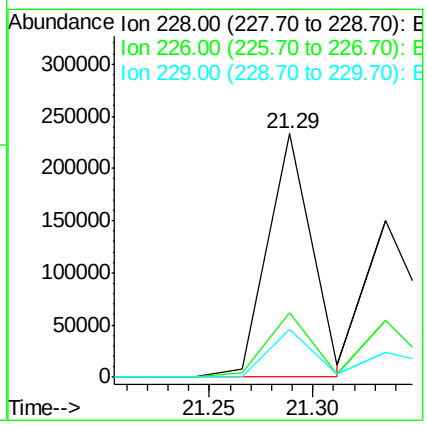


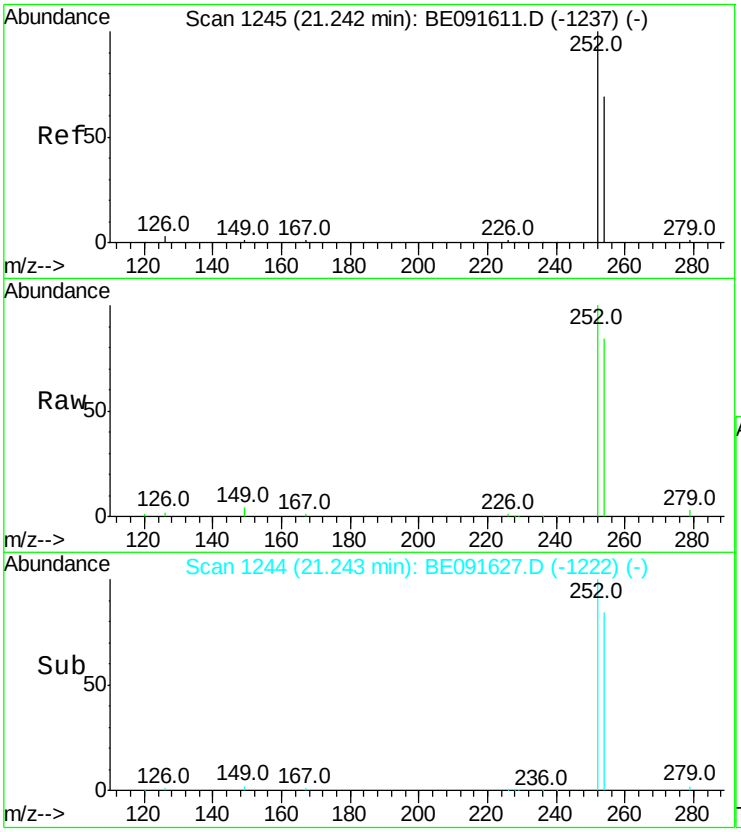


#30
Benzo(a)anthracene
Concen: 3.85 ng m
RT: 21.29 min Scan# 1246
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:228 Resp: 349162

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.0	31.4
229	19.5	15.7	23.5





#31
3,3'-Dichlorobenzidine
Concen: 1.03 ng
RT: 21.24 min Scan# 1244
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:252 Resp: 59211

Ion	Ratio	Lower	Upper
252	100		
254	83.9	51.1	76.7#
126	1.6	12.6	18.8#

Instrument :
BNA_E
ClientSampleId :
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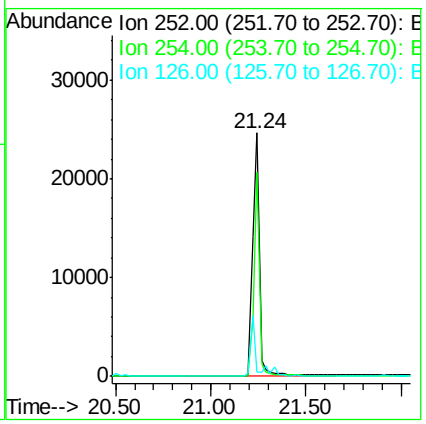
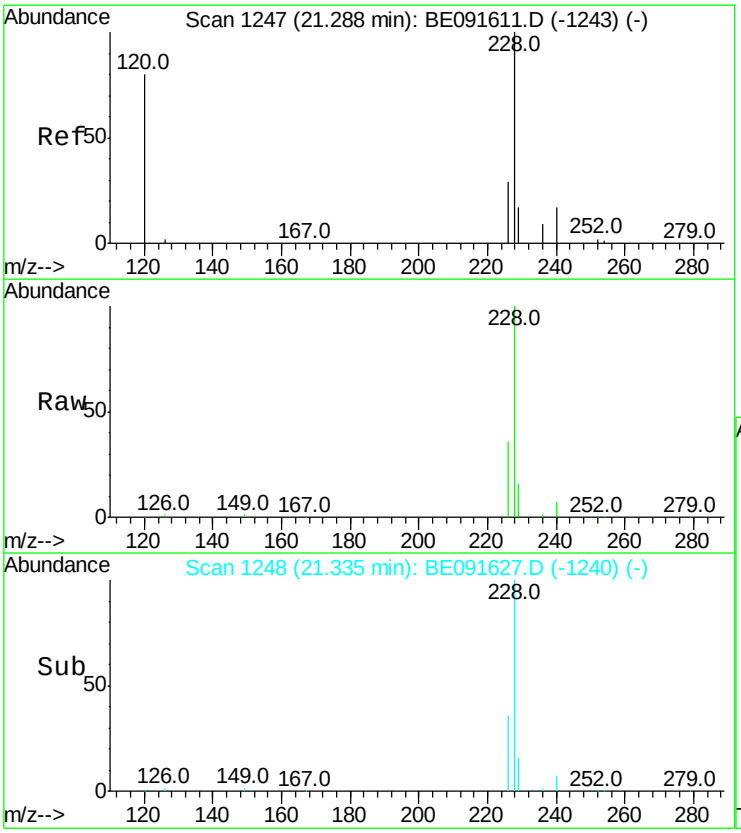
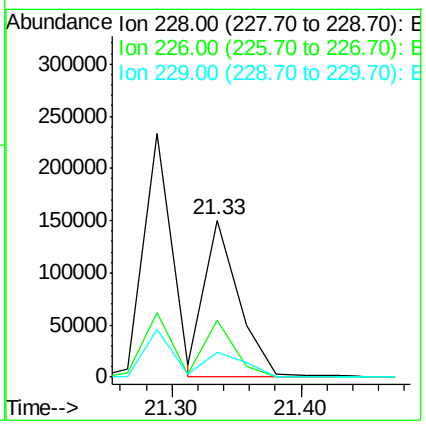


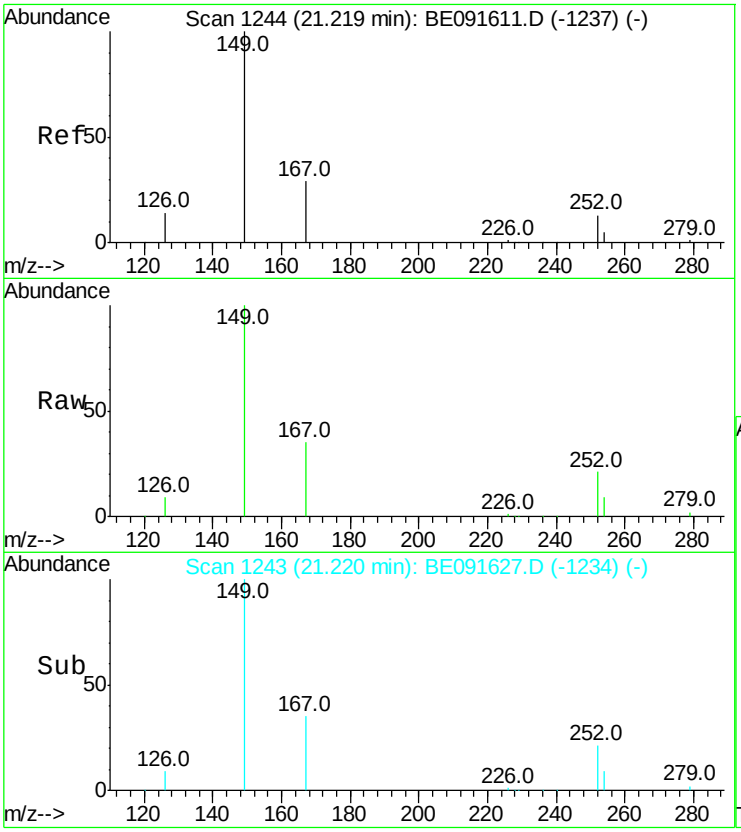


#32
Chrysene
Concen: 3.45 ng m
RT: 21.33 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:228 Resp: 284037

Ion	Ratio	Lower	Upper
228	100		
226	36.1	24.0	36.0#
229	16.0	15.9	23.9





#33
Bis(2-ethylhexyl)phthalate
Concen: 1.85 ng
RT: 21.22 min Scan# 1243
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Instrument :
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ClientSampleId :
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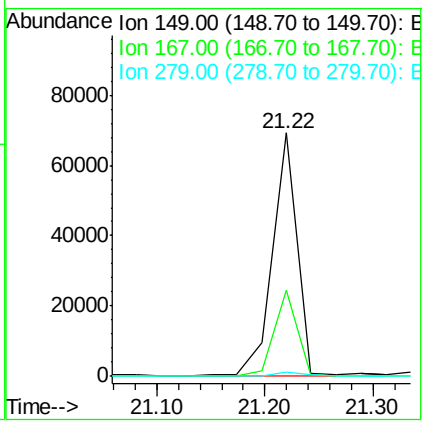
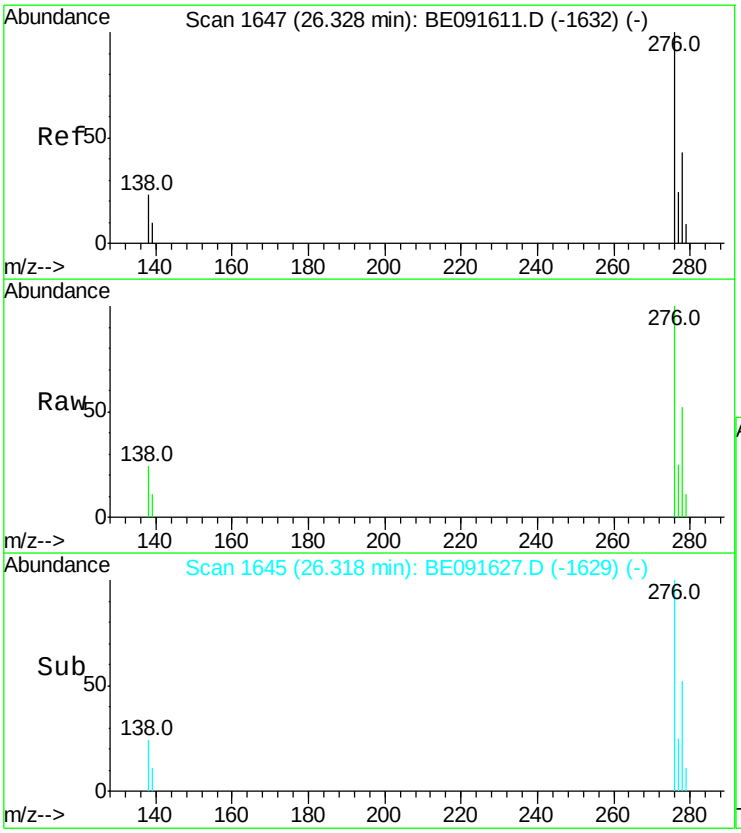
Tgt Ion:149 Resp: 109481

Ion	Ratio	Lower	Upper
149	100		
167	33.0	19.5	29.3#
279	2.3	10.0	15.0#

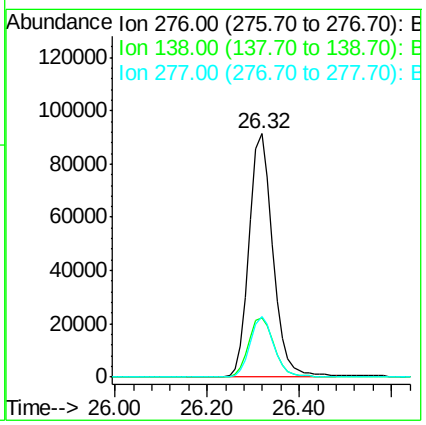


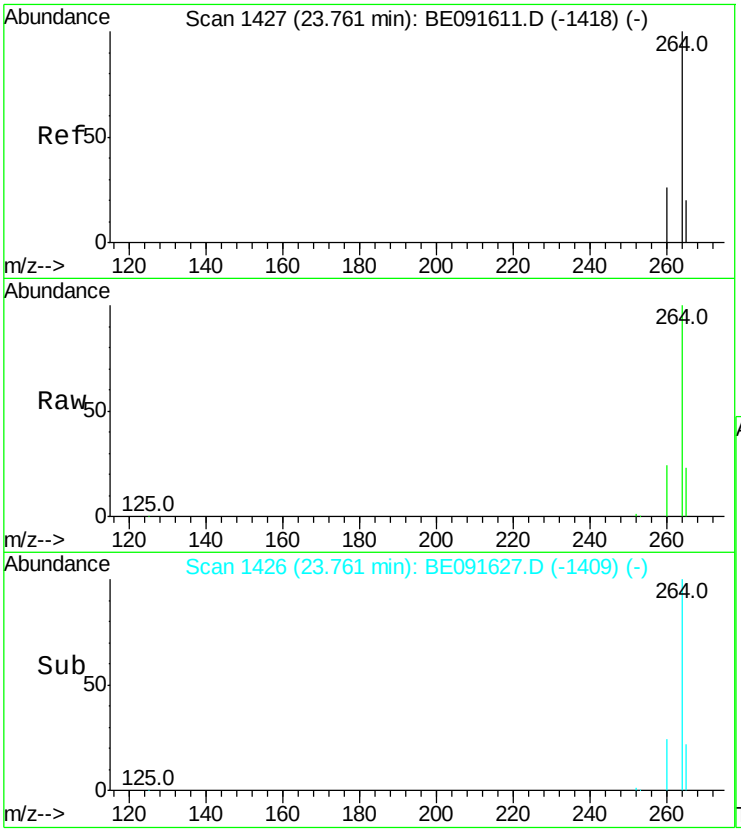


#34
Indeno(1,2,3-cd)pyrene
Concen: 3.55 ng
RT: 26.32 min Scan# 1645
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:276 Resp: 325938

Ion	Ratio	Lower	Upper
276	100		
138	26.1	23.4	35.2
277	24.9	19.8	29.8

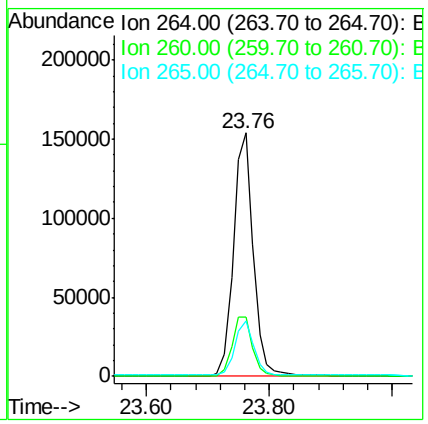




#35
Perylene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1426
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:264 Resp: 346493

Ion	Ratio	Lower	Upper
264	100		
260	24.2	20.0	30.0
265	22.6	17.5	26.3



Instrument :
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ClientSampleId :
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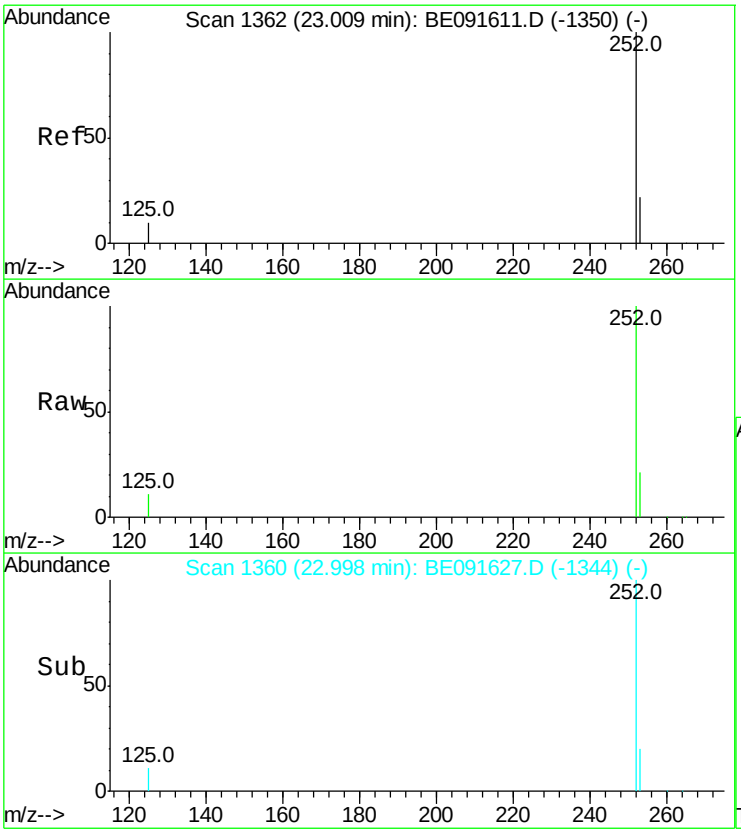
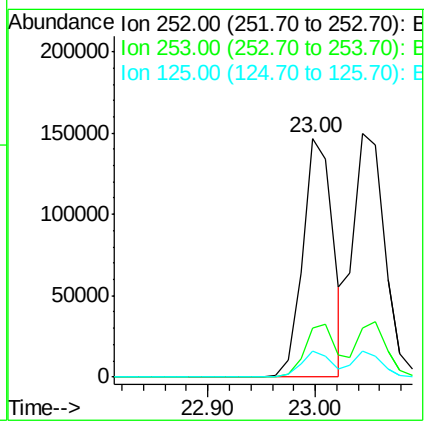
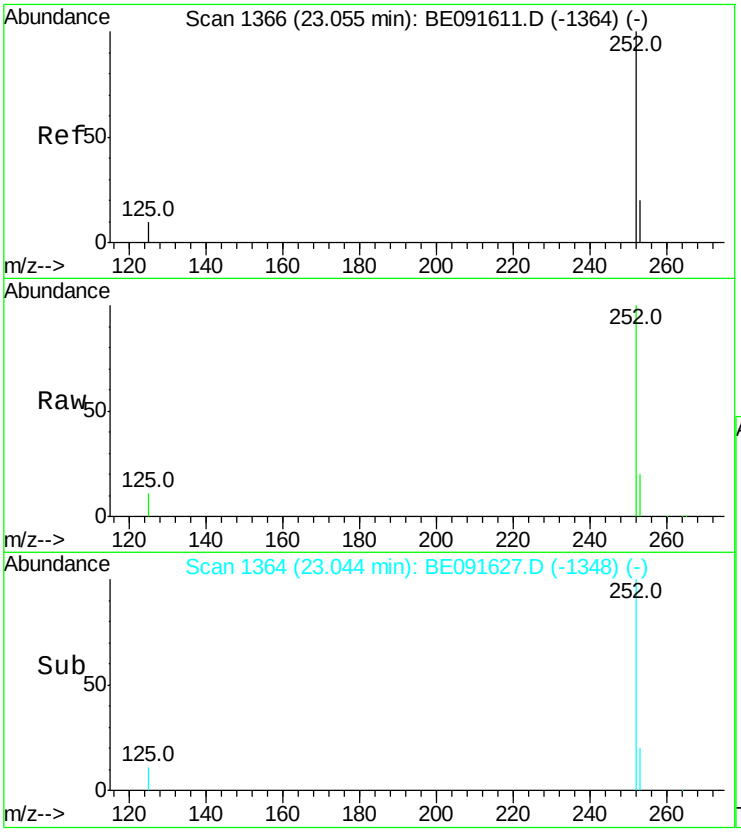


#36
Benzo(b)fluoranthene
Concen: 3.54 ng
RT: 23.00 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:252 Resp: 284837

Ion	Ratio	Lower	Upper
252	100		
253	20.6	17.4	26.0
125	10.9	10.2	15.2

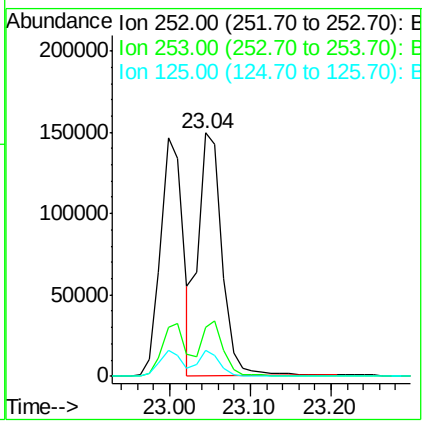




#37
Benzo(k)fluoranthene
Concen: 3.87 ng
RT: 23.04 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

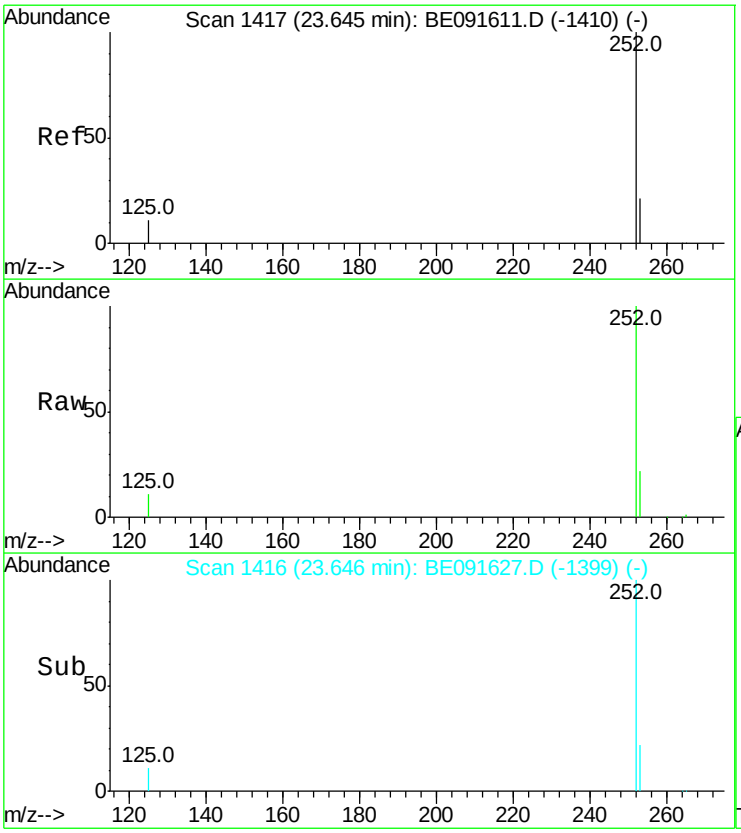
Tgt Ion:252 Resp: 306731

Ion	Ratio	Lower	Upper
252	100		
253	20.3	17.6	26.4
125	10.7	9.9	14.9



Instrument :
BNA_E
ClientSampleId :
PB89606BSD

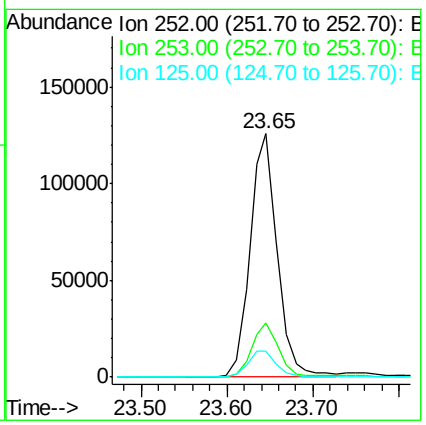
Manual Integrations APPROVED
Sohil
4/12/2016 5:31:25 PM

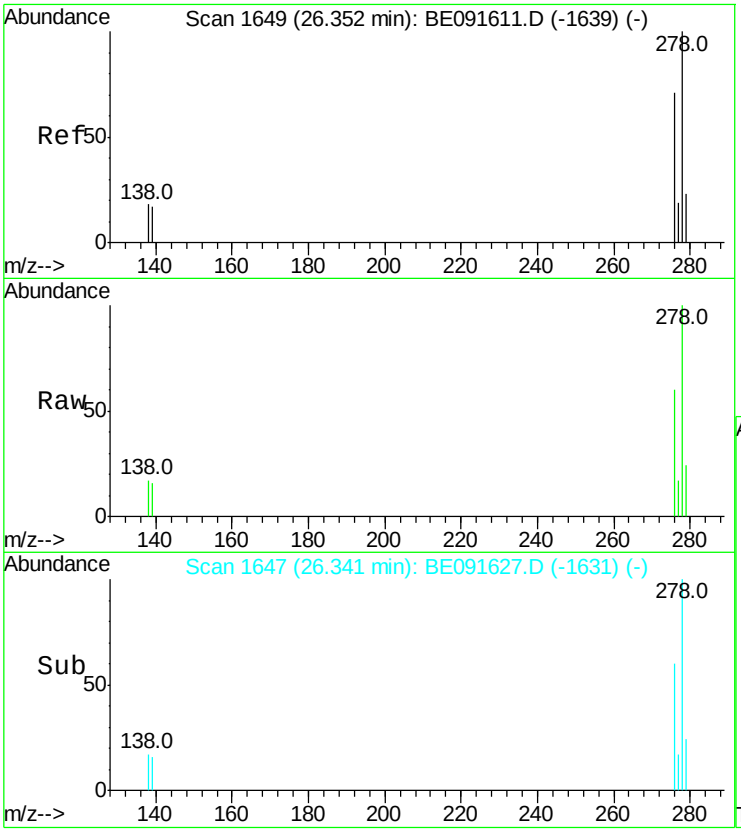


#38
Benzo(a)pyrene
Concen: 3.68 ng
RT: 23.65 min Scan# 1416
Delta R.T. 0.00 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:252 Resp: 275060

Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	10.9	11.0	16.4#

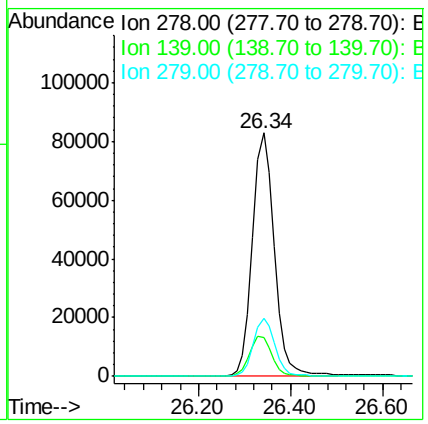




#39
Dibenzo(a,h)anthracene
Concen: 3.71 ng
RT: 26.34 min Scan# 1647
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

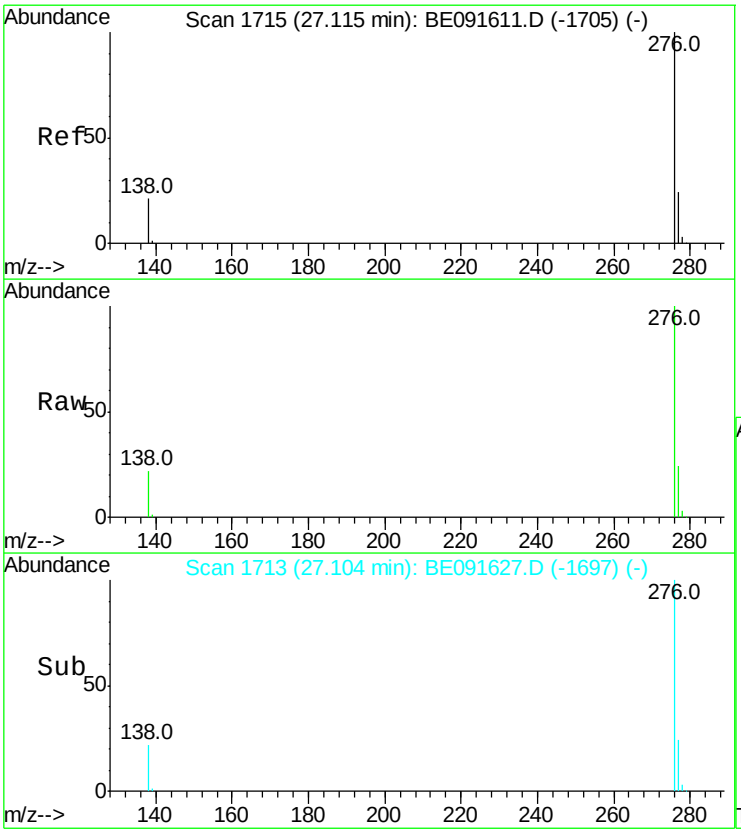
Tgt Ion:278 Resp: 273147

Ion	Ratio	Lower	Upper
278	100		
139	15.9	16.0	24.0#
279	24.0	19.4	29.2



Instrument :
BNA_E
ClientSampleId :
PB89606BSD

Manual Integrations APPROVED
Sohil
4/12/2016 5:31:25 PM



#40
Benzo(g,h,i)perylene
Concen: 3.55 ng
RT: 27.10 min Scan# 1713
Delta R.T. -0.01 min
Lab File: BE091627.D
Acq: 11 Apr 2016 14:22

Tgt Ion:276 Resp: 269355

Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.6	28.0
138	22.5	20.4	30.6