Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE051916\
Data File : BE091824.D
Acq On : 19 May 2016 23:50
Operator : UM/SJ
Sample : H3084-08MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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Quant Time: May 20 16:30:19 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE051916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu May 19 15:36:49 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	27028	5.00	ng		-0.02
7) Naphthalene-d8	10.57	136	144401	5.00	ng		0.00
13) Acenaphthene-d10	14.40	164	94489	5.00	ng		-0.01
19) Phenanthrene-d10	17.14	188	223020	5.00	ng		-0.01
26) Chrysene-d12	21.29	240	241789	5.00	ng		-0.02
35) Perylene-d12	23.73	264	234244	5.00	ng		-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	5.39	112	23788	3.37	ng		0.00
5) Phenol-d6	6.95	99	28379	2.85	ng		0.00
8) Nitrobenzene-d5	8.94	82	43108	4.50	ng		-0.01
14) 2,4,6-Tribromophenol	15.88	330	37900	10.33	ng		-0.01
15) 2-Fluorobiphenyl	13.03	172	67031	2.51	ng		0.00
29) Terphenyl-d14	19.74	244	193327	5.65	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.33	88	218892	74.68	ng		90
3) n-Nitrosodimethylamine	3.63	42	7389	1.71	ng	#	93
6) bis(2-Chloroethyl)ether	7.21	93	170984	21.42	ng	#	76
9) Nitrobenzene	8.98	77	45284	4.60	ng	#	92
10) Naphthalene	10.61	128	122279	3.83	ng		99
11) Hexachlorobutadiene	10.90	225	16941	3.58	ng		97
12) 2-Methylnaphthalene	12.22	142	98037	4.56	ng	#	89
16) Acenaphthylene	14.12	152	198868	4.72	ng	#	82
17) Acenaphthene	14.46	154	156101	6.16	ng		93
18) Fluorene	15.45	166	184532	5.62	ng		97
20) 4-Bromophenyl-phenylether	16.33	248	43575	5.23	ng		95
21) Hexachlorobenzene	16.45	284	41402	4.77	ng		96
22) Pentachlorophenol	16.79	266	56236	15.67	ng	#	89
23) Phenanthrene	17.17	178	268673	6.16	ng		99
24) Anthracene	17.26	178	269332	5.55	ng		98
25) Fluoranthene	19.19	202	317477	5.36	ng	#	84
27) Benzidine	19.30	184	898	0.02	ng	#	1
28) Pyrene	19.55	202	316157	5.96	ng		98
30) Benzo(a)anthracene	21.27	228	289161m	4.96	ng		
31) 3,3'-Dichlorobenzidine	21.22	252	1009	0.03	ng	#	21
32) Chrysene	21.33	228	275696m	5.50	ng		
33) Bis(2-ethylhexyl)phthalate	21.20	149	272266	8.03	ng	#	84
34) Indeno(1,2,3-cd)pyrene	26.28	276	331540	5.55	ng		97
36) Benzo(b)fluoranthene	22.97	252	292632	4.99	ng		98
37) Benzo(k)fluoranthene	23.03	252	301759	5.03	ng		96
38) Benzo(a)pyrene	23.61	252	291363	5.21	ng		97
39) Dibenzo(a,h)anthracene	26.29	278	276986	5.07	ng		97
40) Benzo(g,h,i)perylene	27.06	276	279632	4.96	ng		97

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

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QLast Update : Thu May 19 15:36:49 2016
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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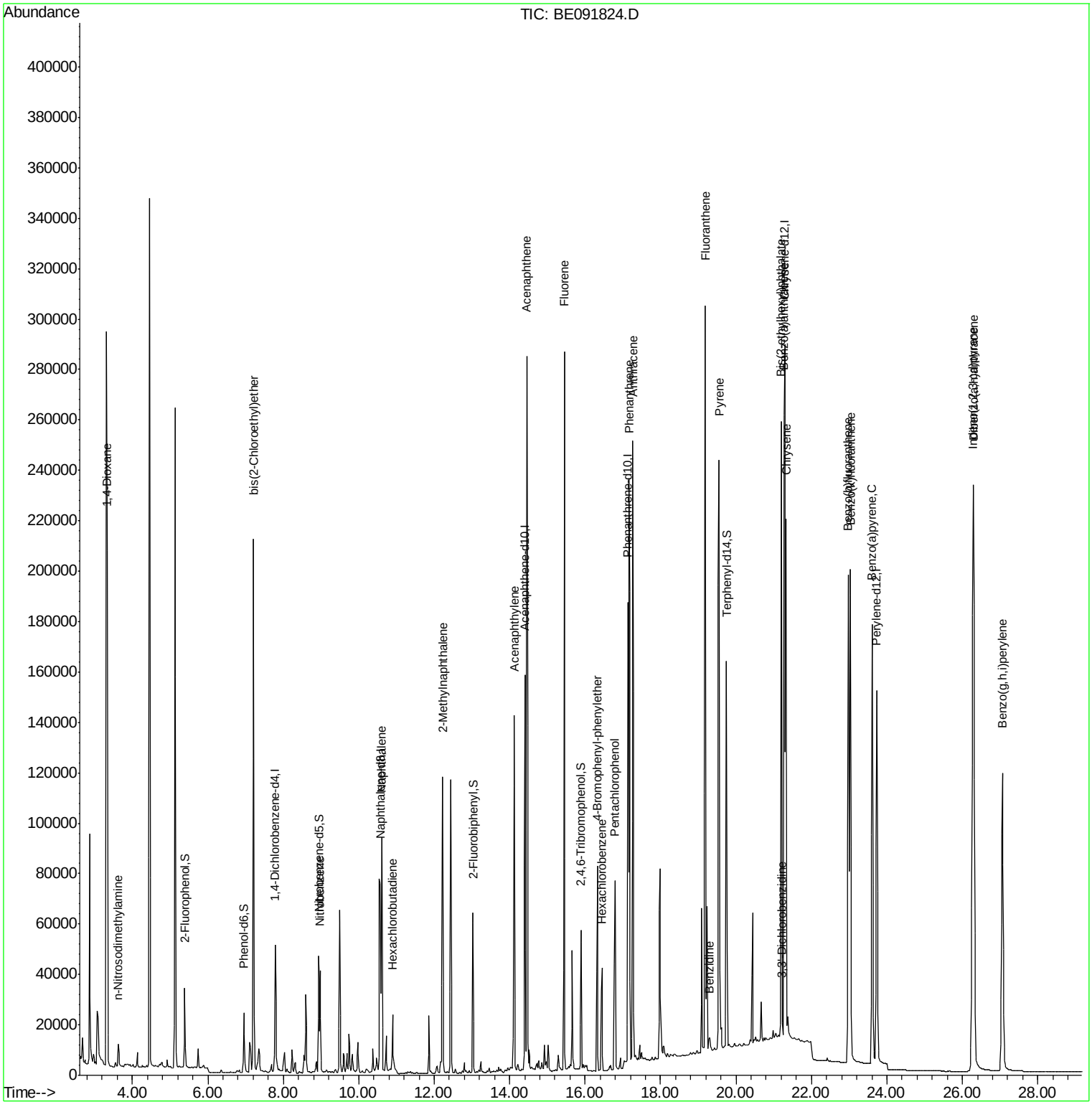
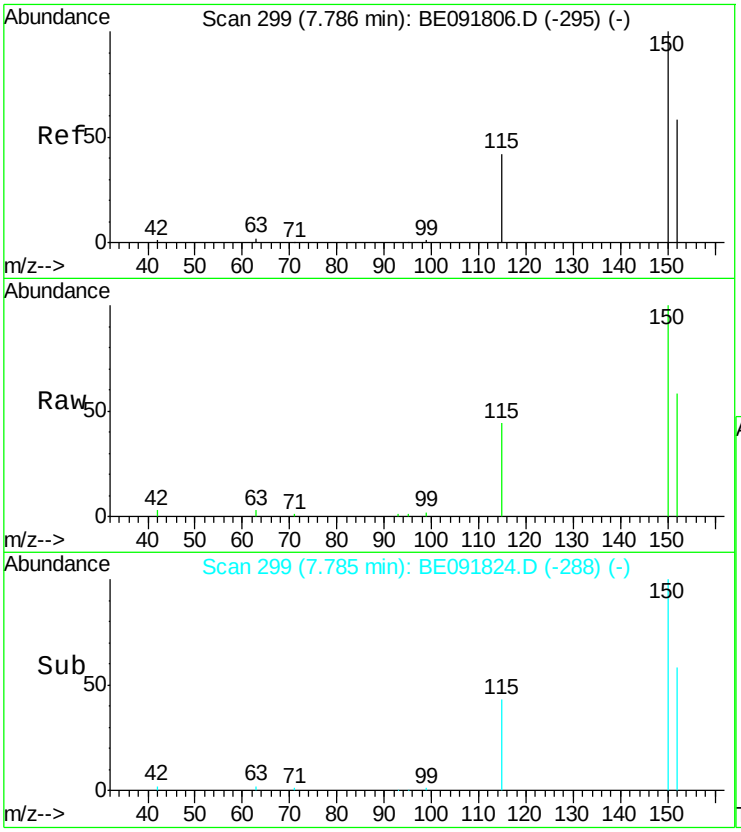
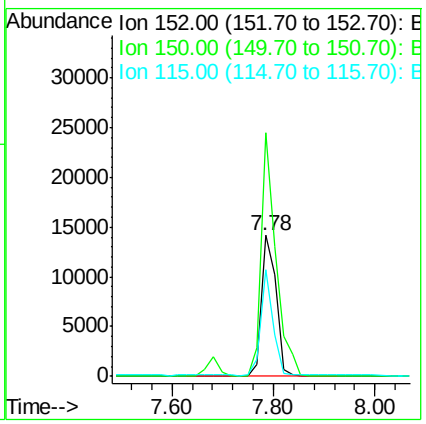




#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.78 min Scan# 299
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:152 Resp: 27028

Ion	Ratio	Lower	Upper
152	100		
150	173.1	122.6	183.8
115	75.4	52.8	79.2



Instrument :
BNA_E
ClientSampleId :
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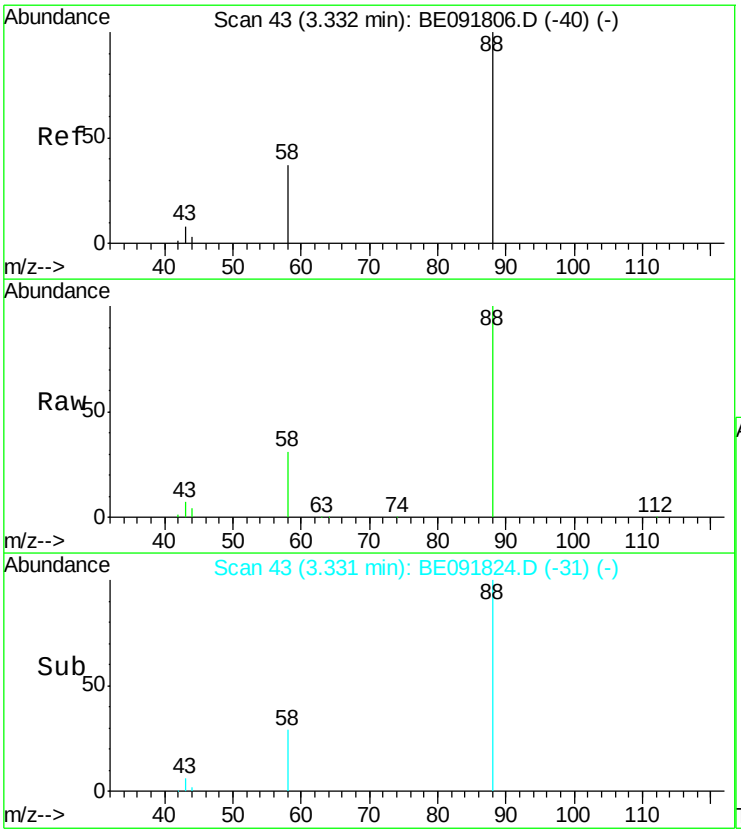
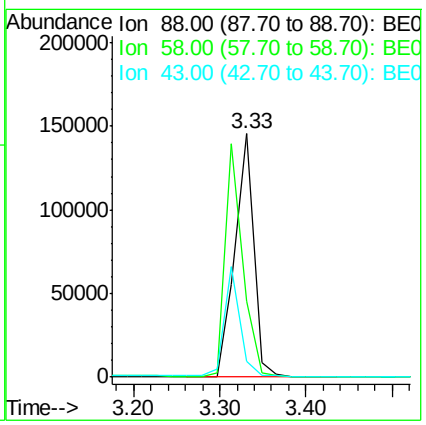
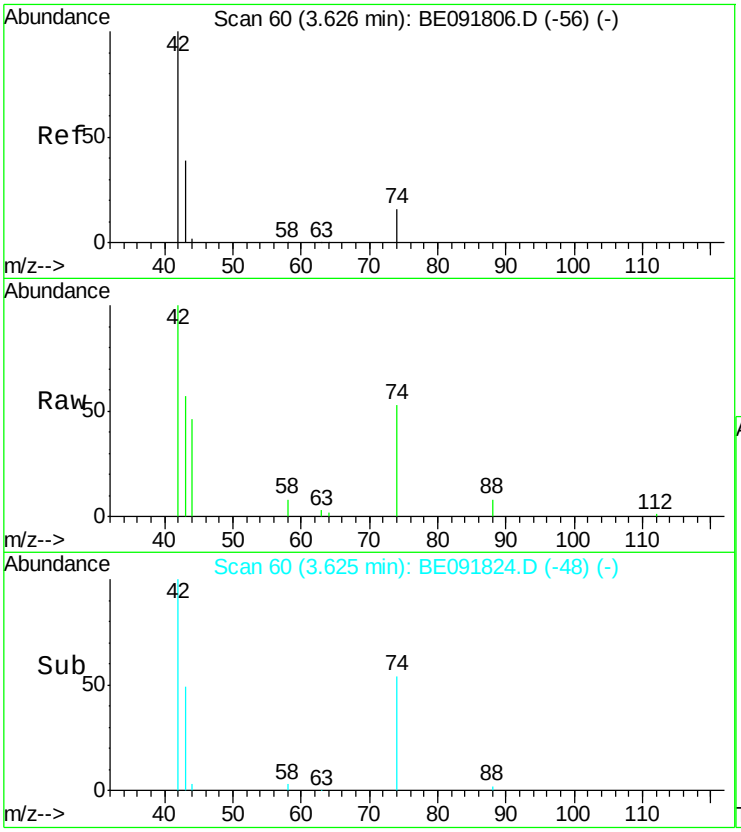


#2
1,4-Dioxane
Concen: 74.68 ng
RT: 3.33 min Scan# 43
Delta R.T. -0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion: 88 Resp: 218892

Ion	Ratio	Lower	Upper
88	100		
58	90.4	65.8	98.6
43	37.9	25.3	37.9





#3
n-Nitrosodimethylamine
Concen: 1.71 ng
RT: 3.63 min Scan# 60
Delta R.T. -0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion: 42 Resp: 7389

Ion	Ratio	Lower	Upper
42	100		
74	102.2	87.9	131.9
44	9.9	6.6	9.8#

Instrument :
BNA_E
ClientSampleId :
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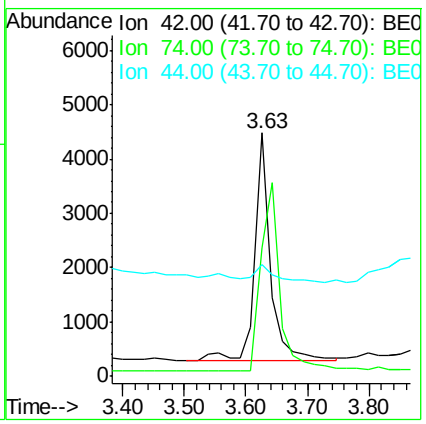
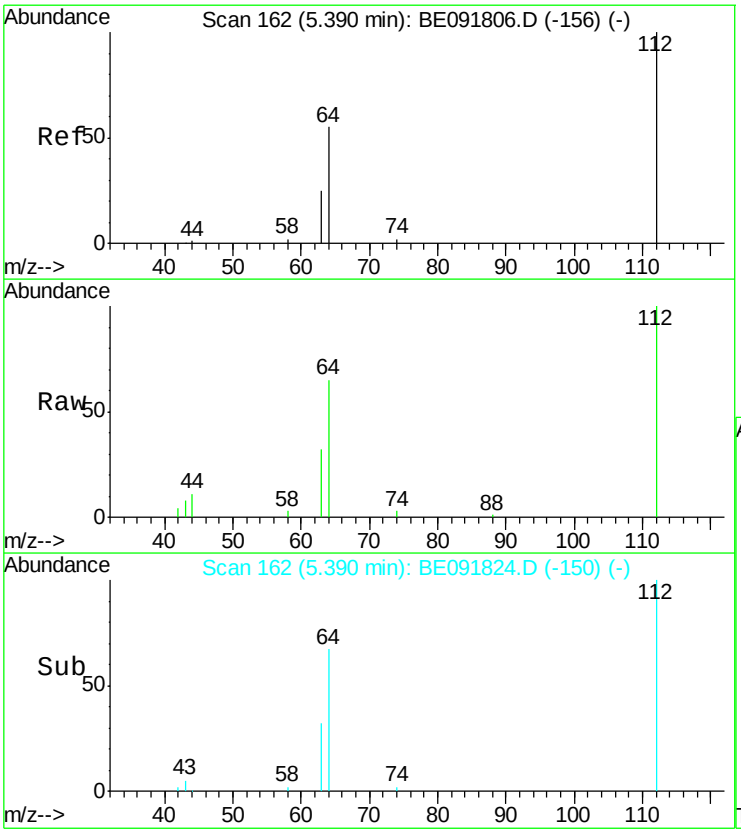
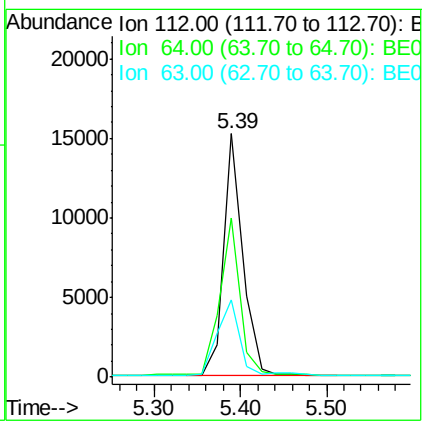


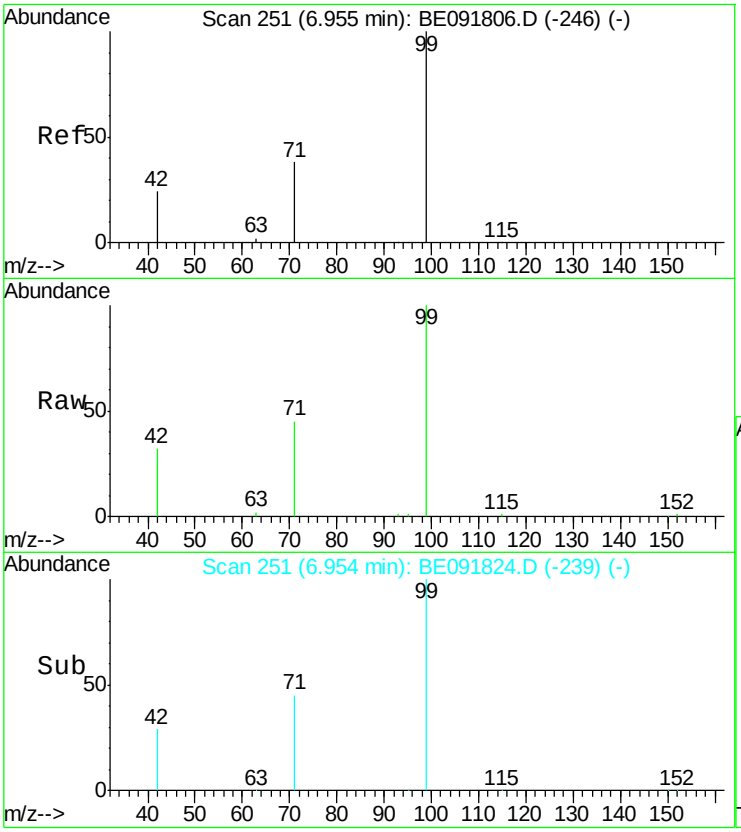


#4
2-Fluorophenol
Concen: 3.37 ng
RT: 5.39 min Scan# 162
Delta R.T. -0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:112 Resp: 23788

Ion	Ratio	Lower	Upper
112	100		
64	70.8	30.9	46.3#
63	37.5	16.7	25.1#





#5
Phenol-d6
Concen: 2.85 ng
RT: 6.95 min Scan# 251
Delta R.T. -0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion: 99 Resp: 28379

Ion	Ratio	Lower	Upper
99	100		
42	25.3	16.2	24.2#
71	37.7	29.0	43.4

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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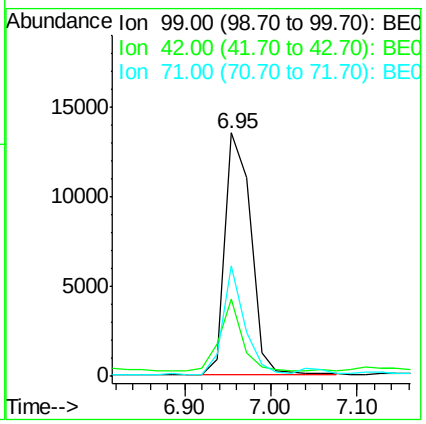
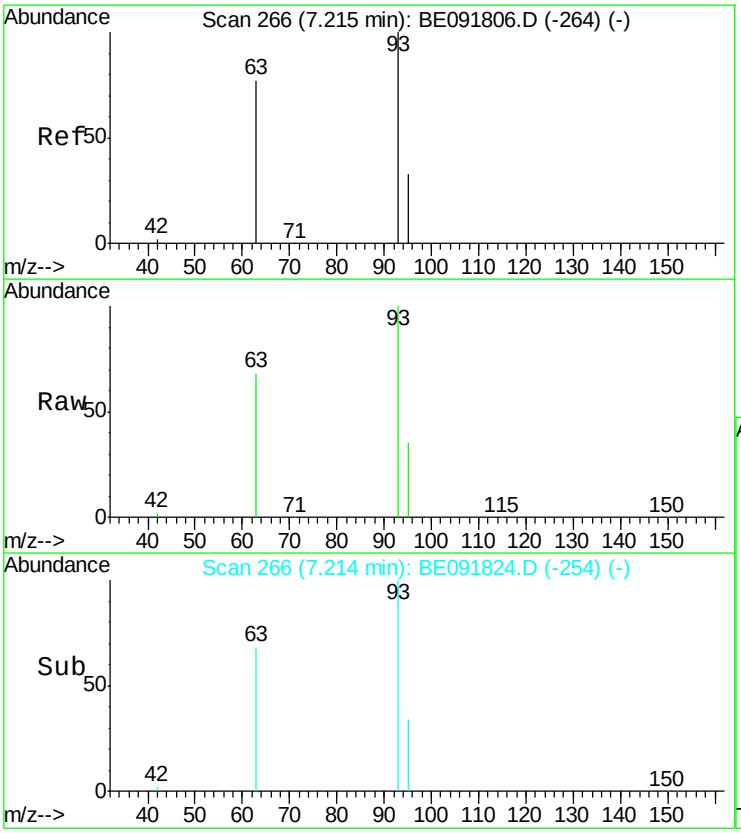
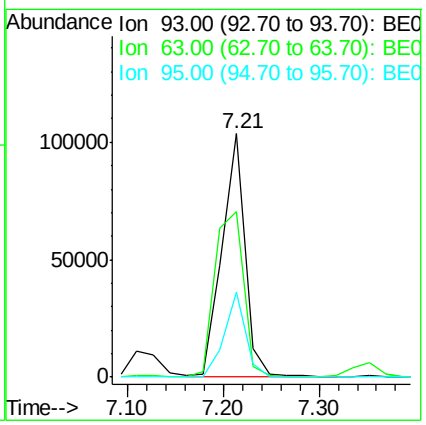


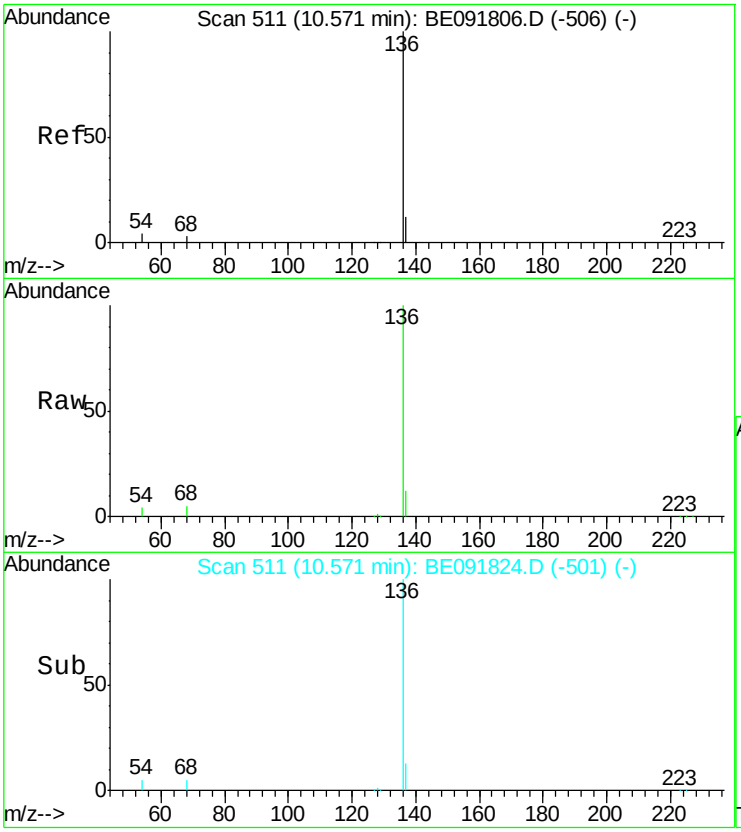


#6
bis(2-Chloroethyl)ether
Concen: 21.42 ng
RT: 7.21 min Scan# 266
Delta R.T. -0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion: 93 Resp: 170984

Ion	Ratio	Lower	Upper
93	100		
63	85.9	49.5	74.3#
95	32.6	22.2	33.4

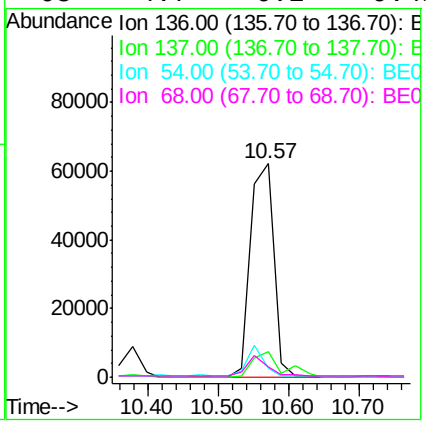




#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.57 min Scan# 511
Delta R.T. -0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:136 Resp: 144401

Ion	Ratio	Lower	Upper
136	100		
137	12.1	8.9	13.3
54	4.4	8.2	12.4#
68	4.7	6.2	9.4#



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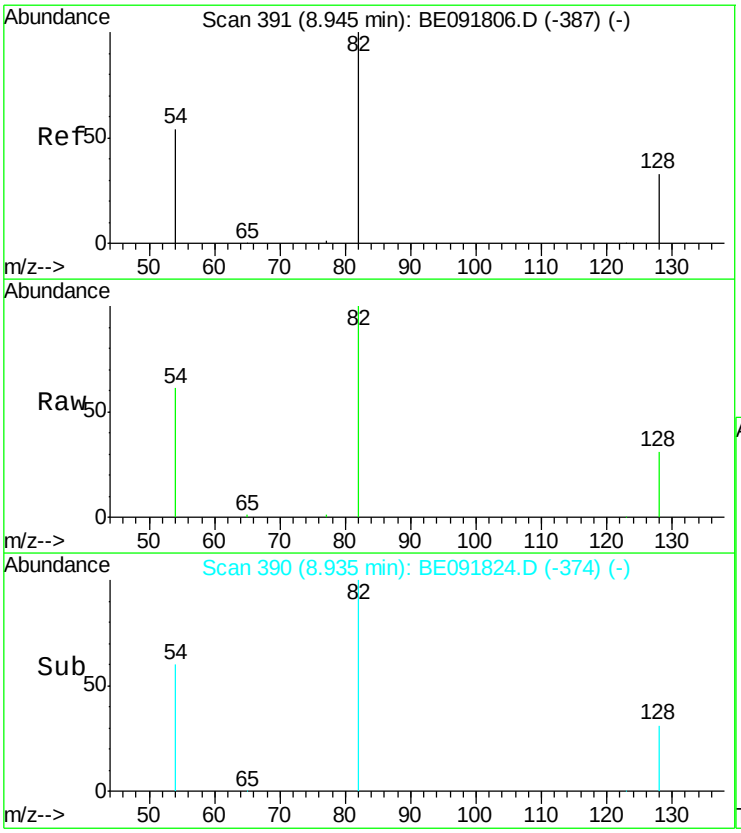
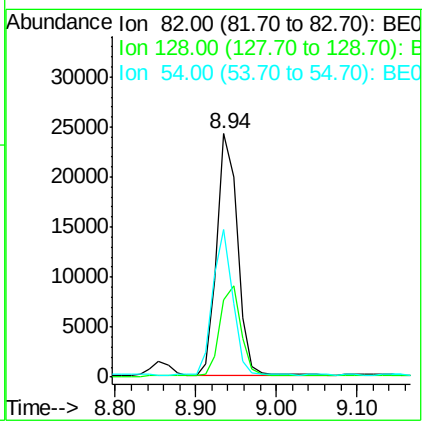
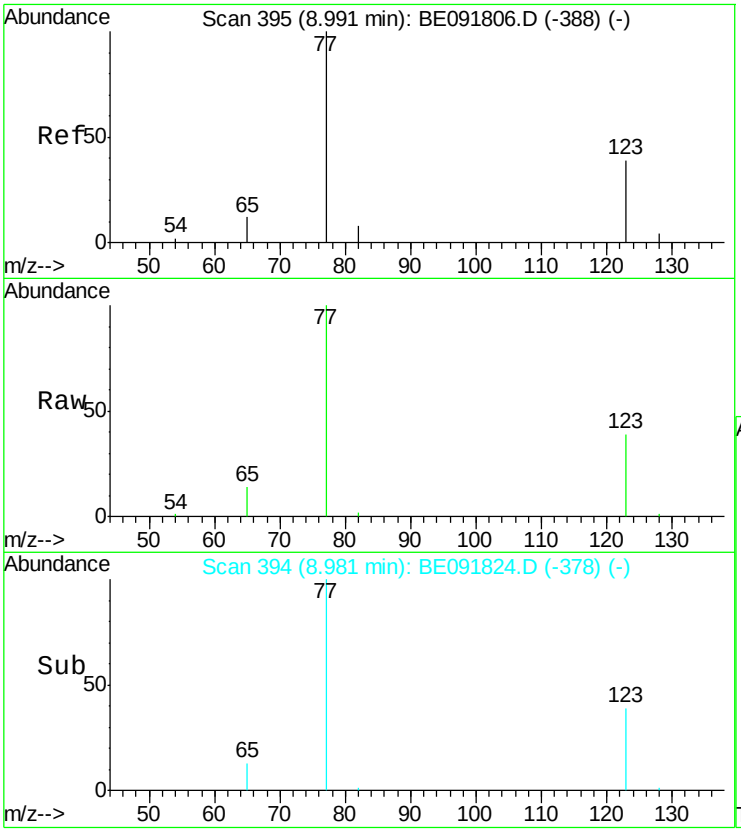


#8
Nitrobenzene-d5
Concen: 4.50 ng
RT: 8.94 min Scan# 390
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion: 82 Resp: 43108

Ion	Ratio	Lower	Upper
82	100		
128	31.5	25.4	38.0
54	60.8	48.4	72.6

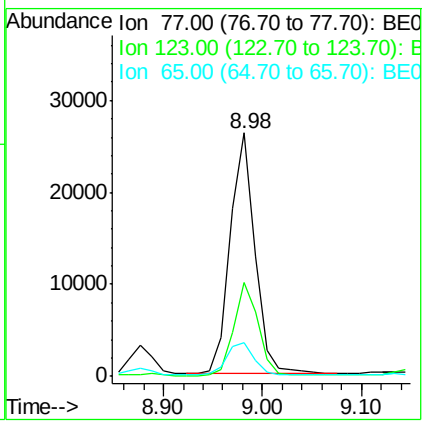




#9
Nitrobenzene
Concen: 4.60 ng
RT: 8.98 min Scan# 394
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion: 77 Resp: 45284

Ion	Ratio	Lower	Upper
77	100		
123	38.2	26.9	40.3
65	14.5	9.4	14.2#



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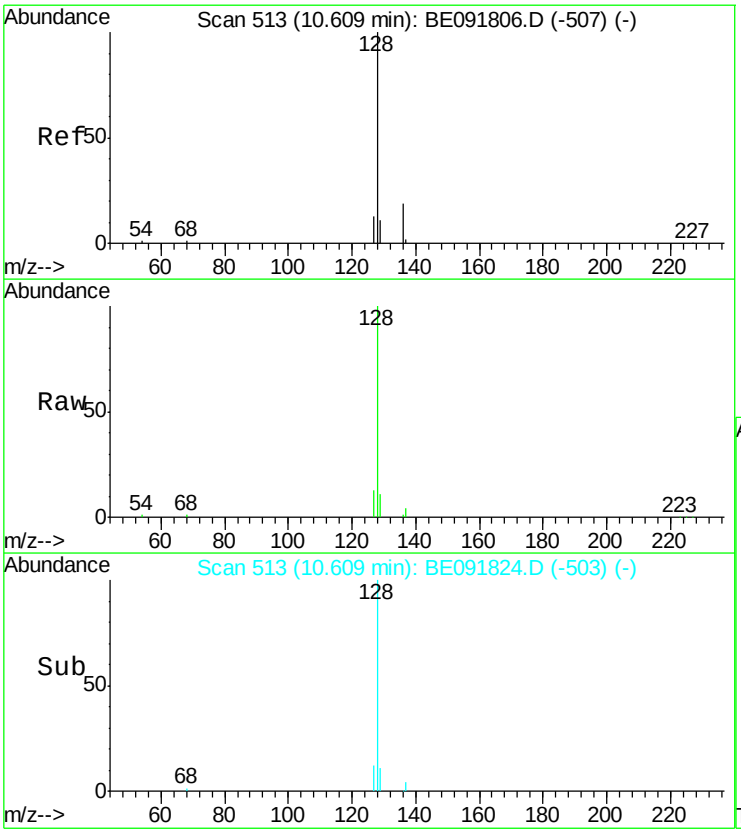
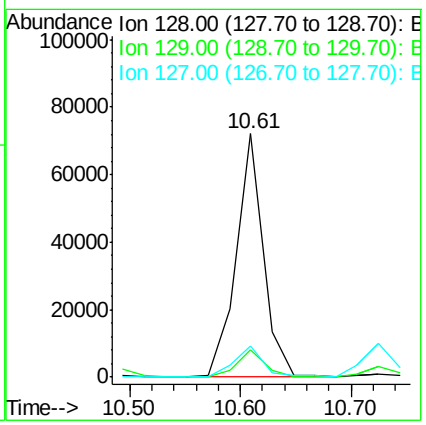
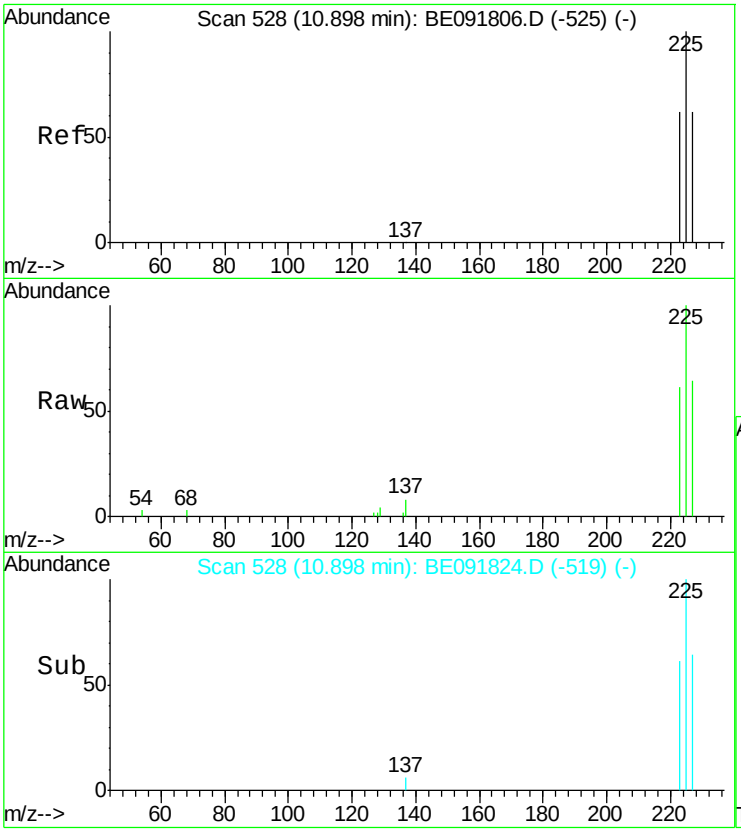


#10
Naphthalene
Concen: 3.83 ng
RT: 10.61 min Scan# 513
Delta R.T. -0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:128 Resp: 122279

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.3	13.9
127	12.6	10.7	16.1

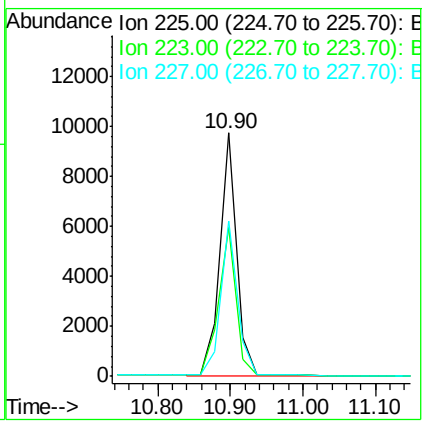




#11
Hexachlorobutadiene
Concen: 3.58 ng
RT: 10.90 min Scan# 528
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:225 Resp: 16941

Ion	Ratio	Lower	Upper
225	100		
223	64.2	49.0	73.6
227	64.8	50.3	75.5



Instrument :
BNA_E
ClientSampleId :
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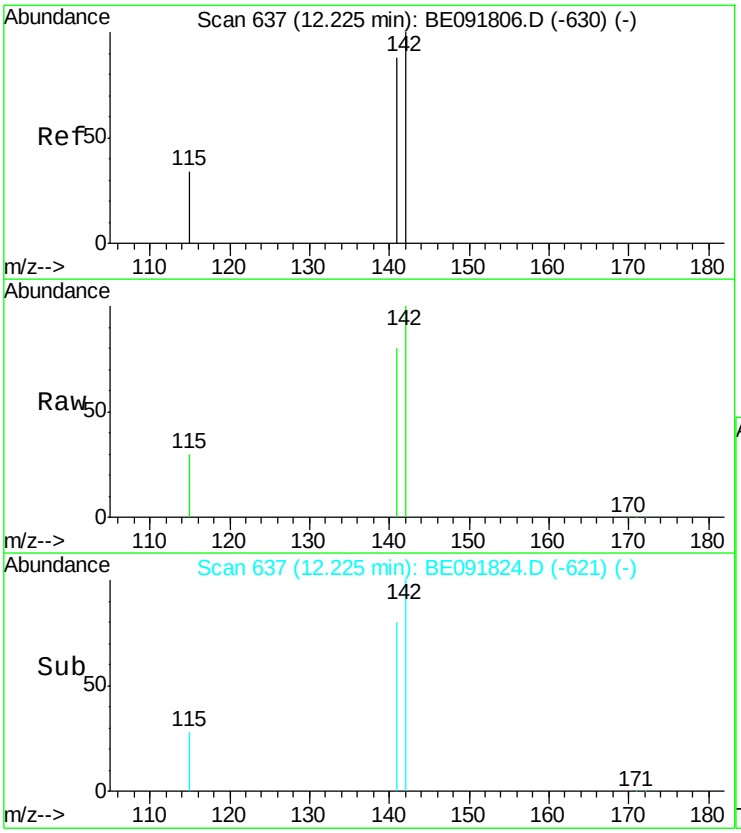
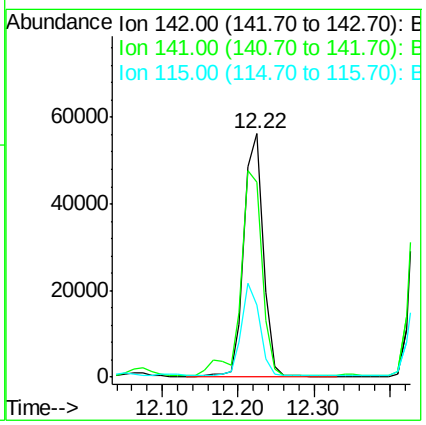
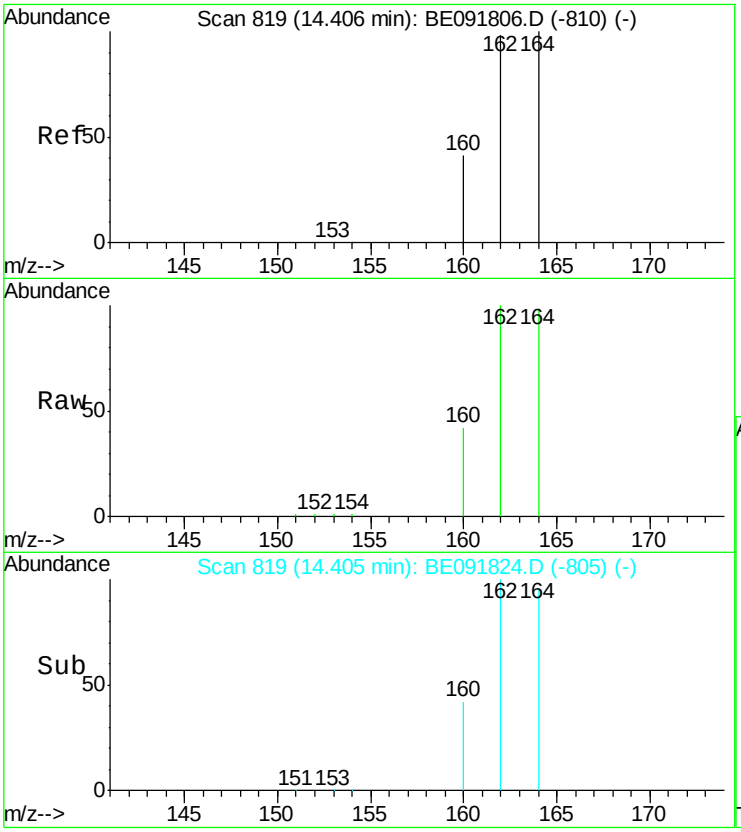


#12
2-Methylnaphthalene
Concen: 4.56 ng
RT: 12.22 min Scan# 637
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:142 Resp: 98037

Ion	Ratio	Lower	Upper
142	100		
141	80.3	71.4	107.0
115	29.5	30.3	45.5#





#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.40 min Scan# 819
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:164 Resp: 94489

Ion	Ratio	Lower	Upper
164	100		
162	101.9	85.3	127.9
160	43.0	46.2	69.2#

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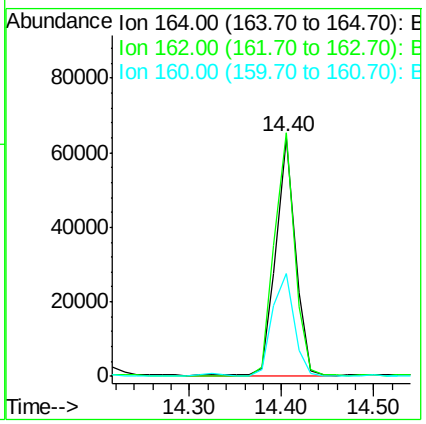
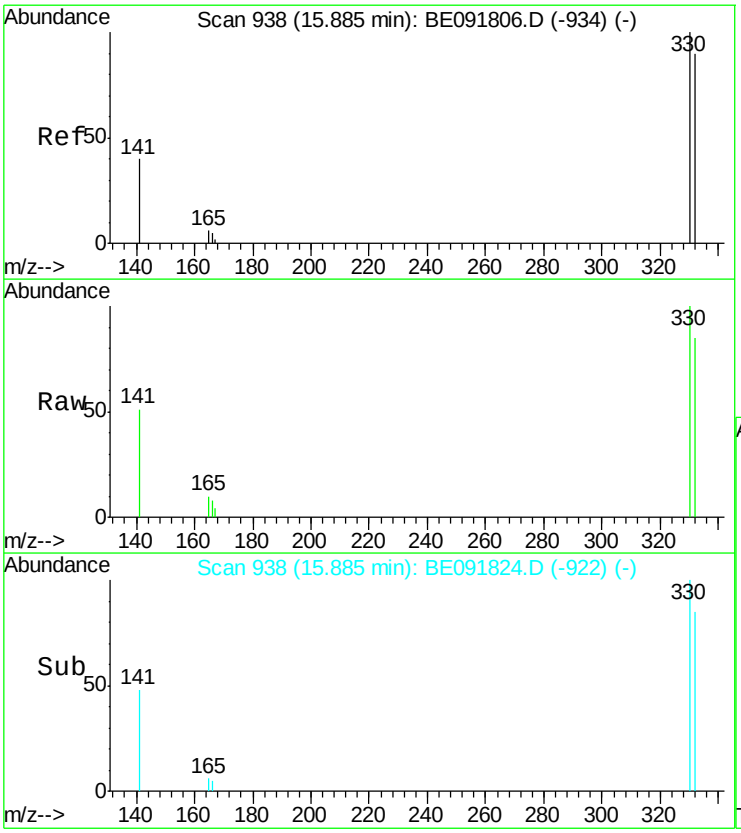
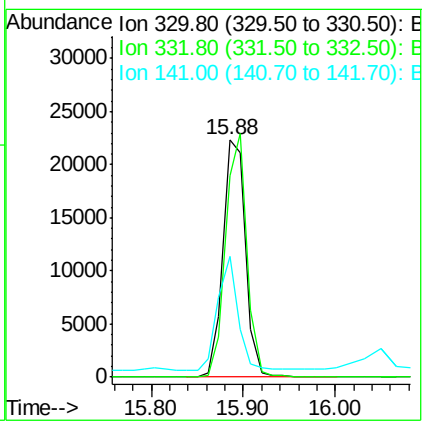


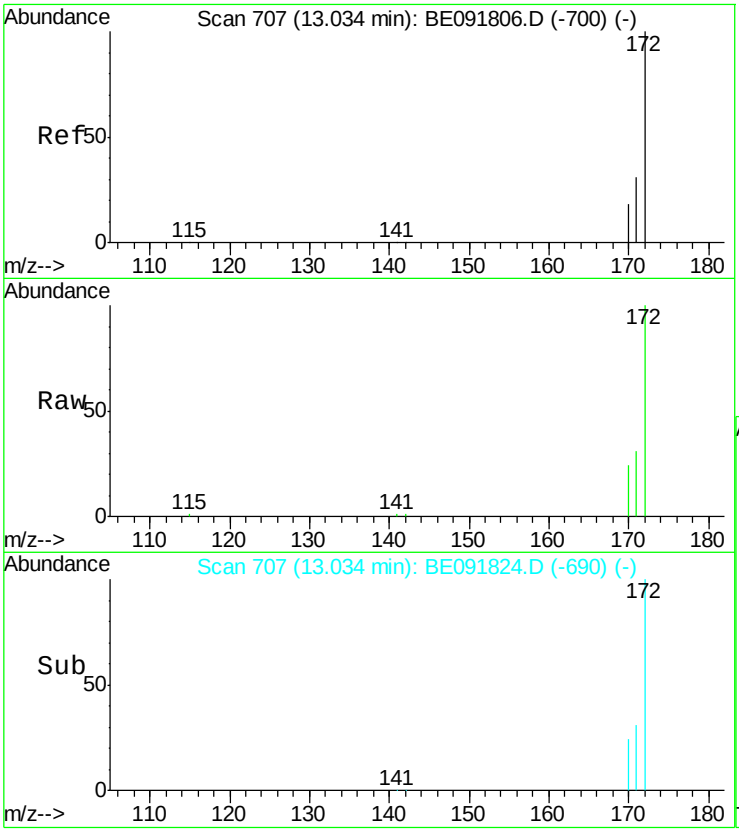


#14
2,4,6-Tribromophenol
Concen: 10.33 ng
RT: 15.88 min Scan# 938
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:330 Resp: 37900

Ion	Ratio	Lower	Upper
330	100		
332	96.9	79.1	118.7
141	43.9	125.4	188.0#

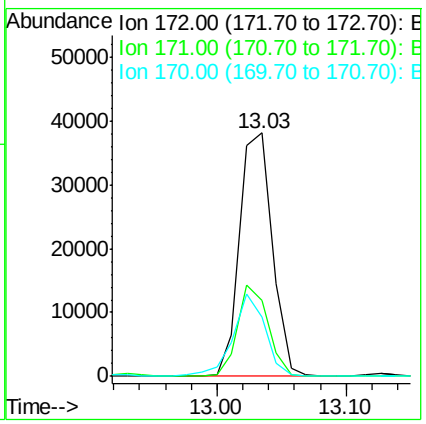




#15
2-Fluorobiphenyl
Concen: 2.51 ng
RT: 13.03 min Scan# 707
Delta R.T. 0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:172 Resp: 67031

Ion	Ratio	Lower	Upper
172	100		
171	31.0	28.8	43.2
170	24.4	19.3	28.9



Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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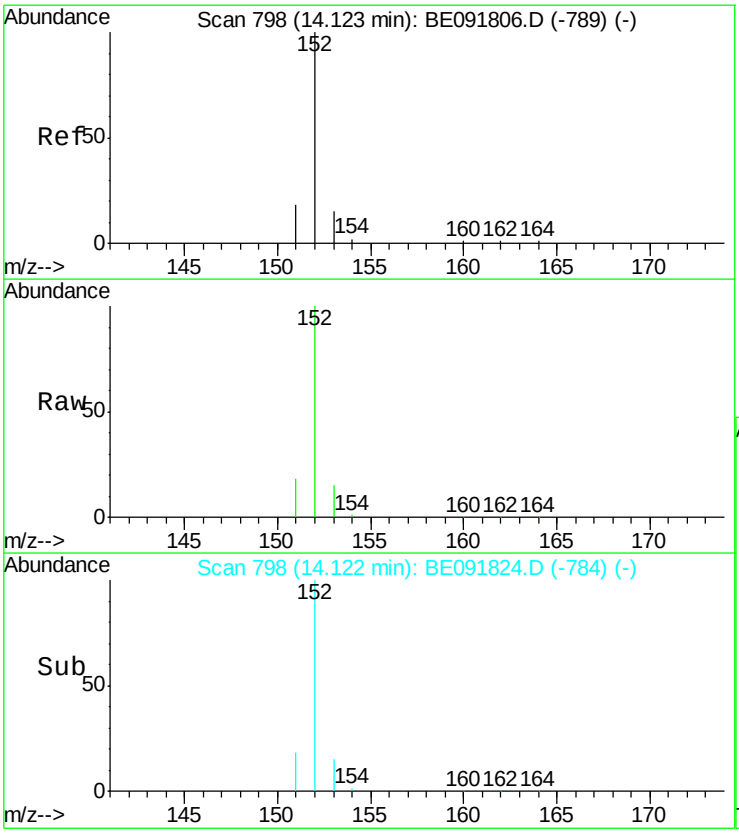
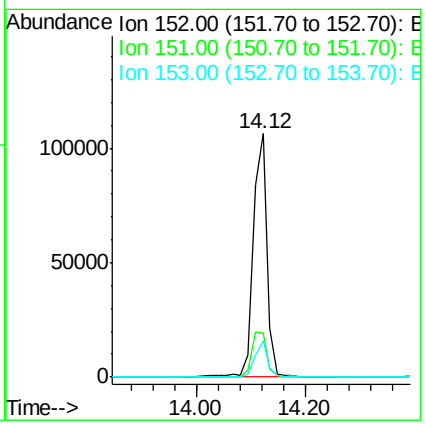
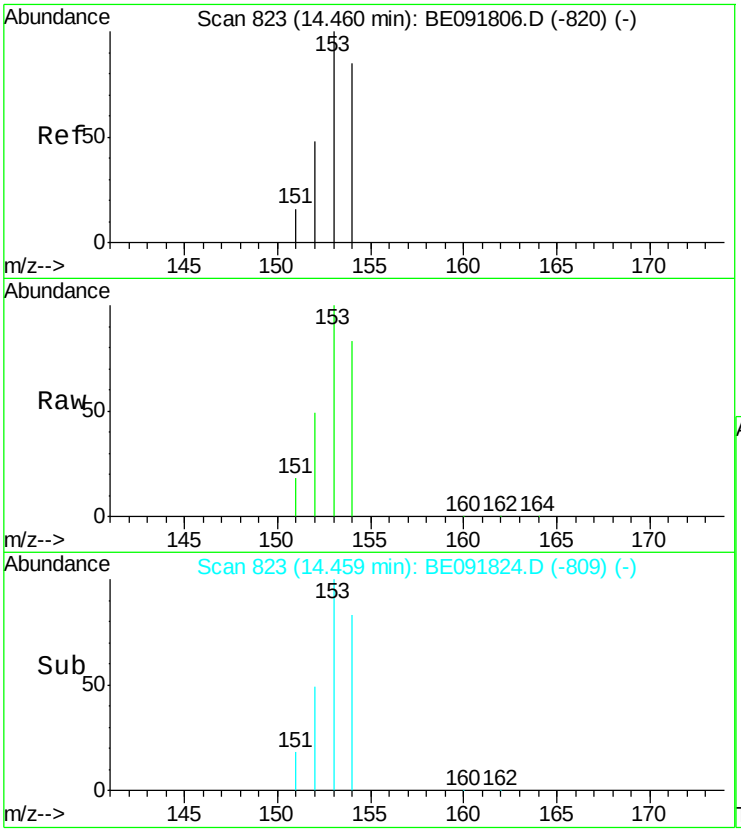


#16
Acenaphthylene
Concen: 4.72 ng
RT: 14.12 min Scan# 798
Delta R.T. -0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:152 Resp: 198868

Ion	Ratio	Lower	Upper
152	100		
151	21.9	3.9	5.9#
153	15.0	10.3	15.5

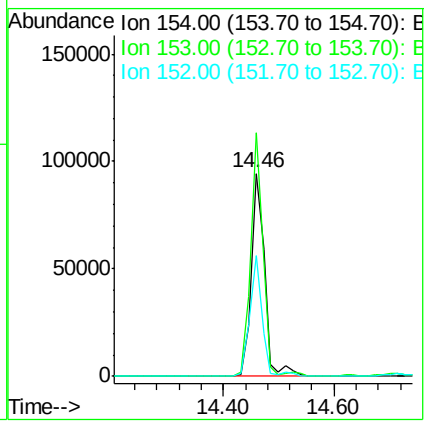




#17
Acenaphthene
Concen: 6.16 ng
RT: 14.46 min Scan# 823
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:154 Resp: 156101

Ion	Ratio	Lower	Upper
154	100		
153	108.6	80.0	120.0
152	52.6	40.0	60.0



Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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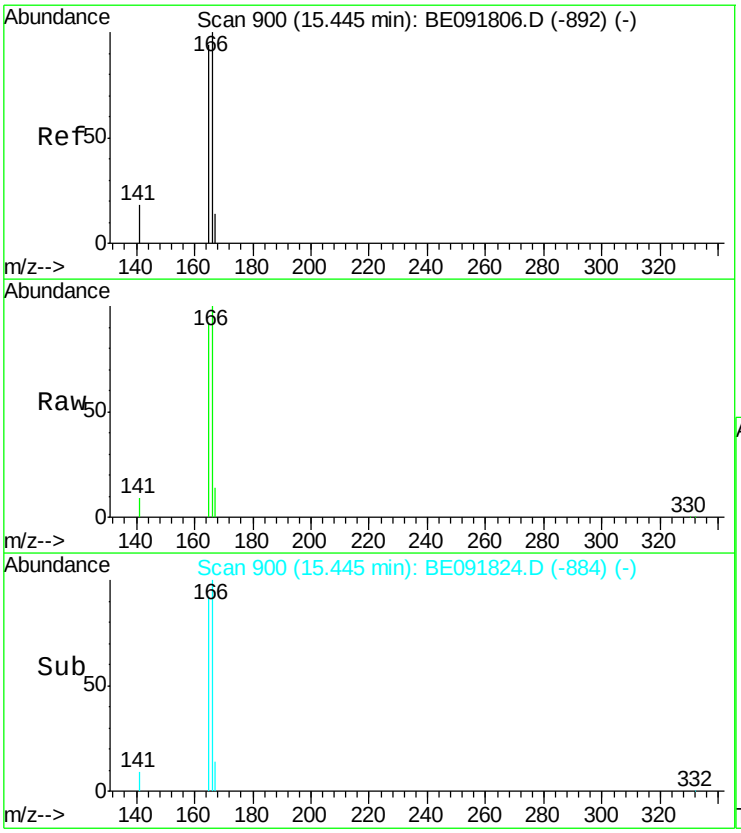
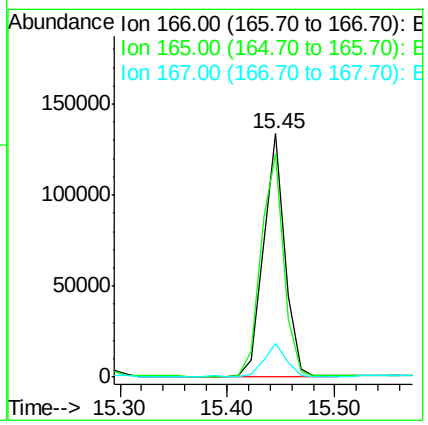
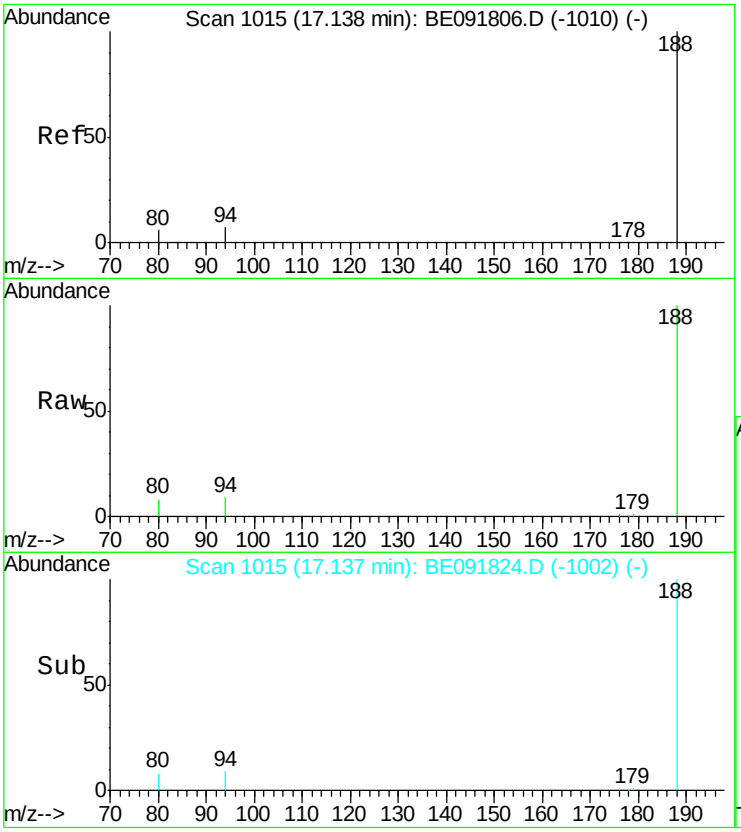


#18
Fluorene
Concen: 5.62 ng
RT: 15.45 min Scan# 900
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:166 Resp: 184532

Ion	Ratio	Lower	Upper
166	100		
165	97.2	80.8	121.2
167	13.6	10.9	16.3





#19
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.14 min Scan# 1015
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:188 Resp: 223020

Ion	Ratio	Lower	Upper
188	100		
94	9.0	8.7	13.1
80	8.2	9.4	14.0#

Instrument :
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ClientSampleId :
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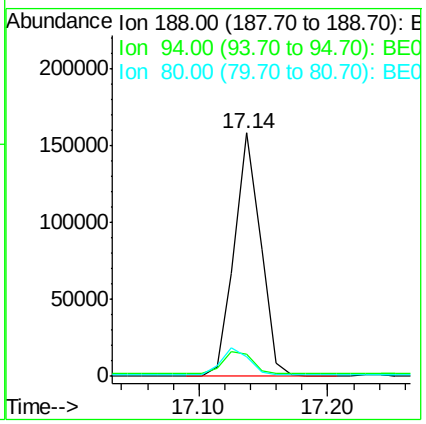
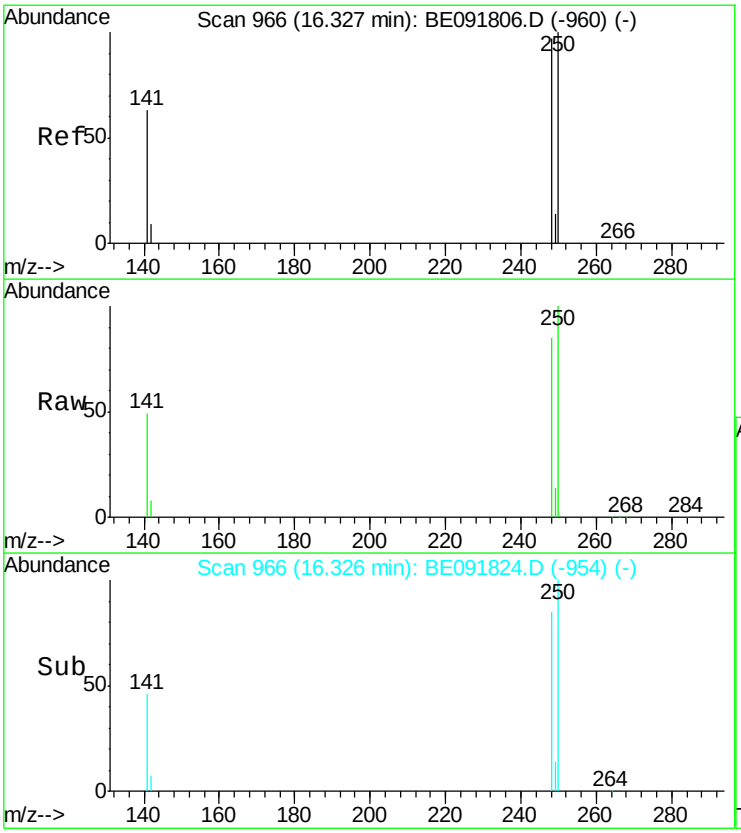
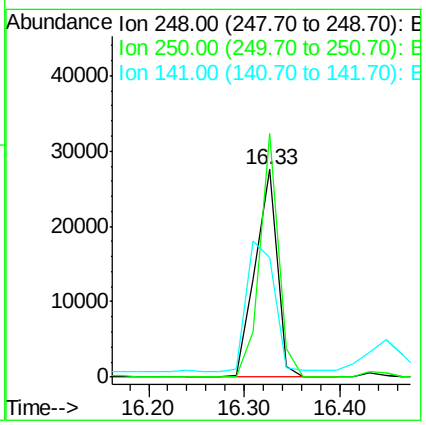


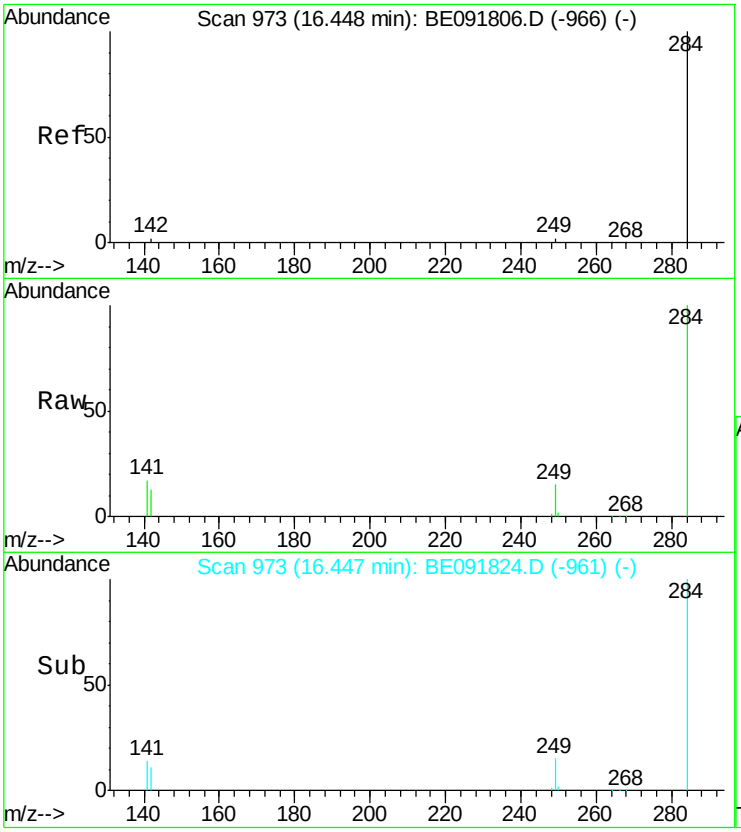


#20
4-Bromophenyl-phenylether
Concen: 5.23 ng
RT: 16.33 min Scan# 966
Delta R.T. 0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:248 Resp: 43575

Ion	Ratio	Lower	Upper
248	100		
250	100.1	80.5	120.7
141	80.7	72.0	108.0

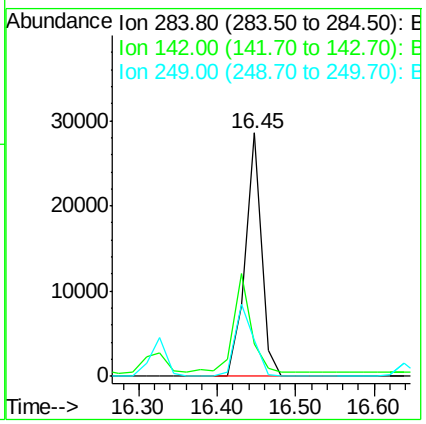




#21
Hexachlorobenzene
Concen: 4.77 ng
RT: 16.45 min Scan# 973
Delta R.T. 0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:284 Resp: 41402

Ion	Ratio	Lower	Upper
284	100		
142	43.9	32.2	48.2
249	32.7	25.4	38.2



Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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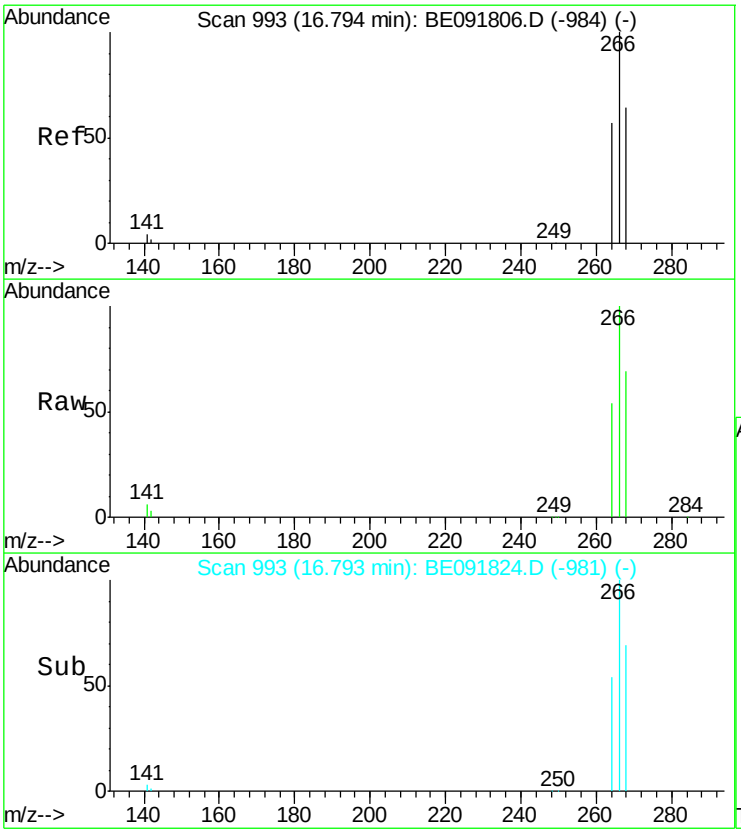
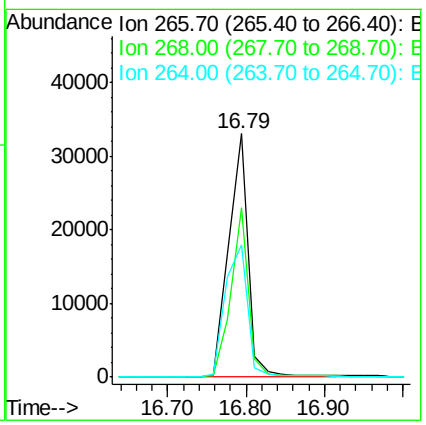
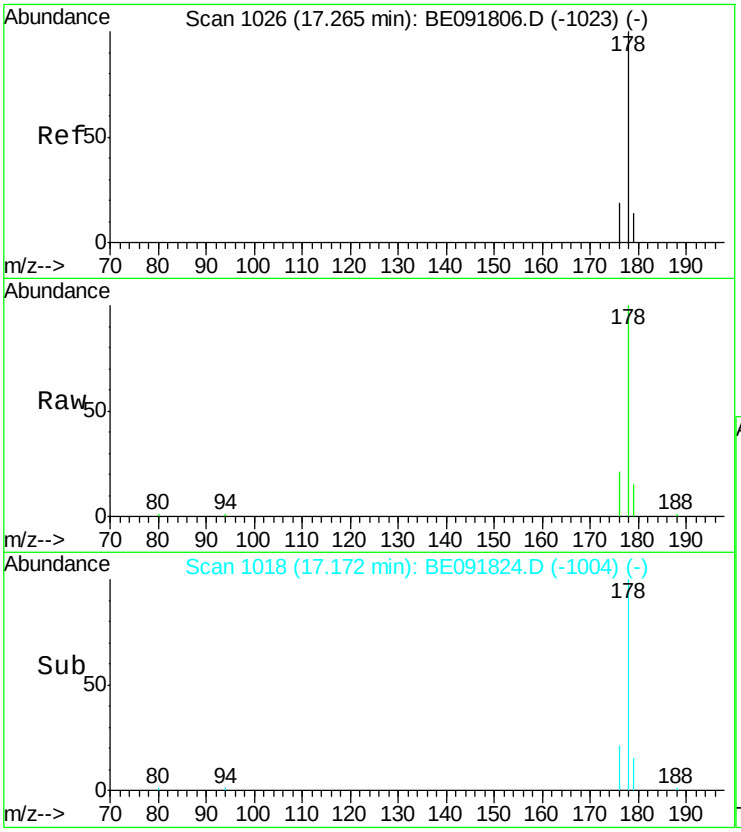


#22
Pentachlorophenol
Concen: 15.67 ng
RT: 16.79 min Scan# 993
Delta R.T. 0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:266 Resp: 56236

Ion	Ratio	Lower	Upper
266	100		
268	69.4	58.2	87.2
264	54.5	56.2	84.4#

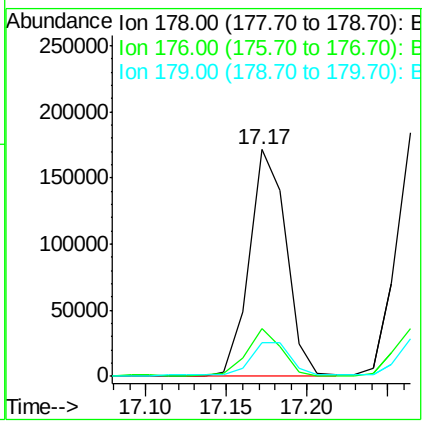




#23
Phenanthrene
Concen: 6.16 ng
RT: 17.17 min Scan# 1018
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:178 Resp: 268673

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.3	22.9
179	16.0	12.6	18.8



Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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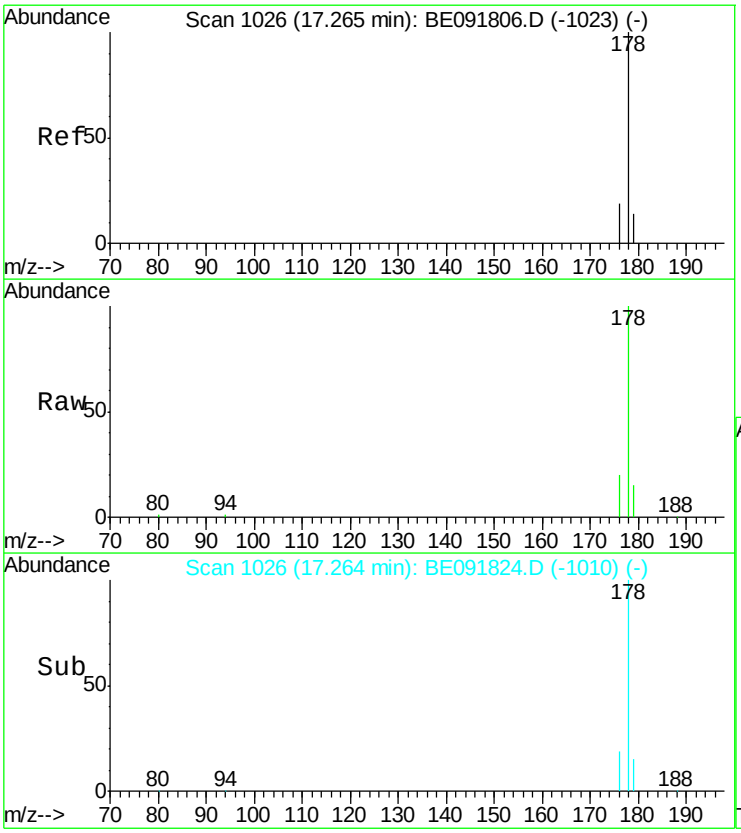
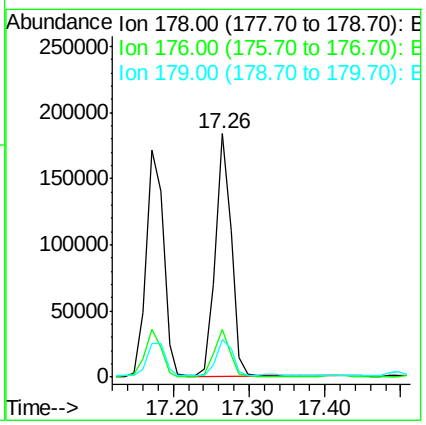
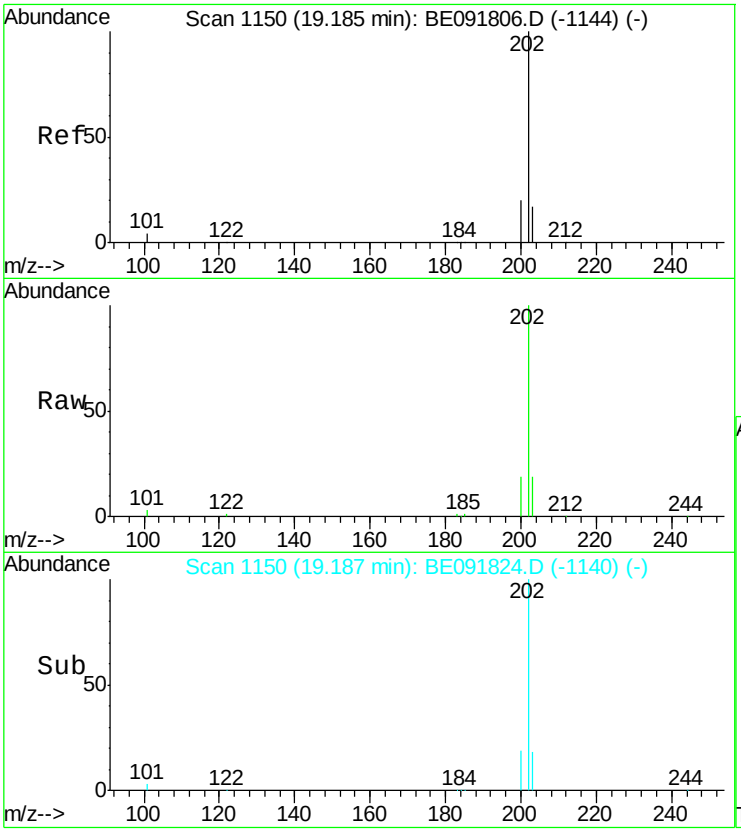


#24
Anthracene
Concen: 5.55 ng
RT: 17.26 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:178 Resp: 269332

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	21.8
179	15.5	11.8	17.6





#25
Fluoranthene
Concen: 5.36 ng
RT: 19.19 min Scan# 1150
Delta R.T. 0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:202 Resp: 317477

Ion	Ratio	Lower	Upper
202	100		
101	0.0	11.0	16.6#
203	18.0	13.9	20.9

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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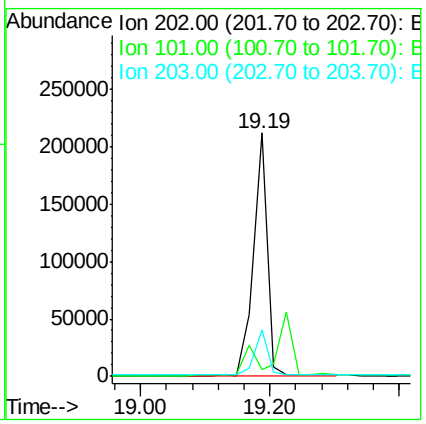
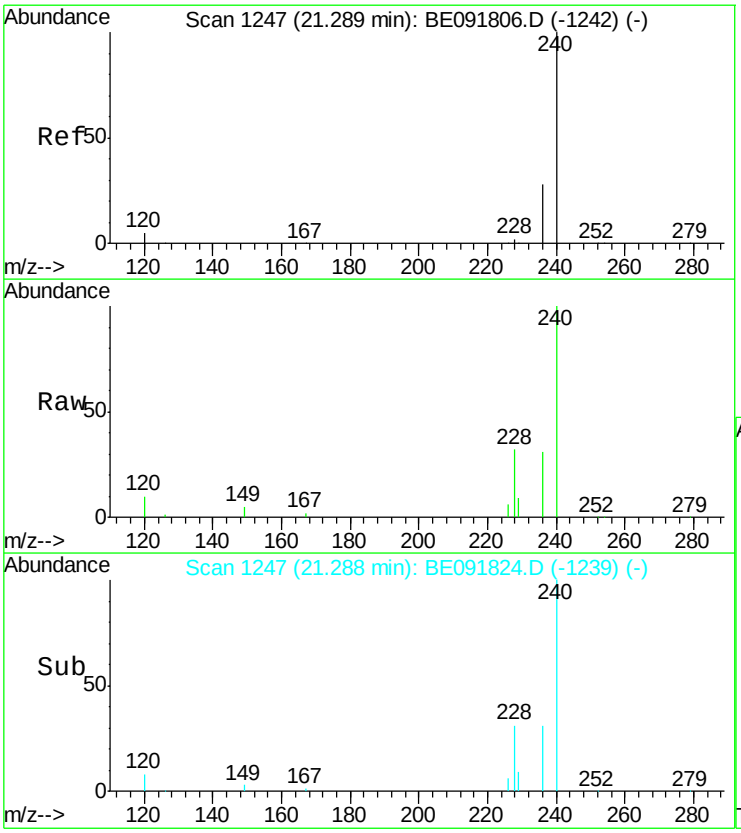
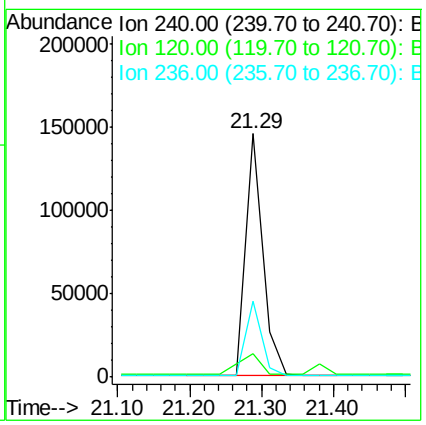


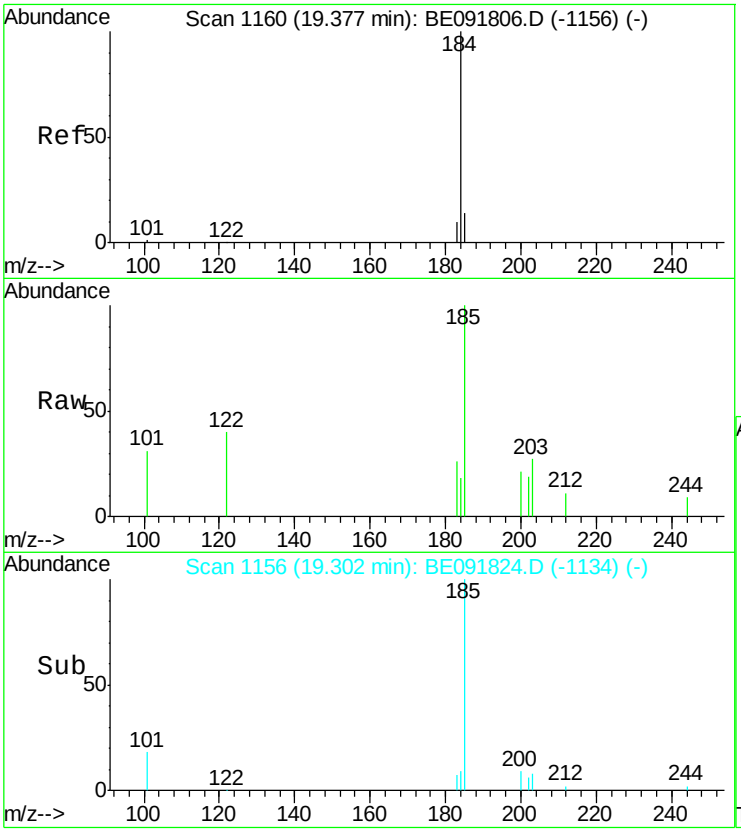


#26
Chrysene-d12
Concen: 5.00 ng
RT: 21.29 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:240 Resp: 241789

Ion	Ratio	Lower	Upper
240	100		
120	9.6	11.0	16.4#
236	31.2	21.7	32.5





#27
Benzidine
Concen: 0.02 ng
RT: 19.30 min Scan# 1156
Delta R.T. -0.08 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:184 Resp: 898

Ion	Ratio	Lower	Upper
184	100		
185	559.5	22.3	33.5#
183	144.8	16.4	24.6#

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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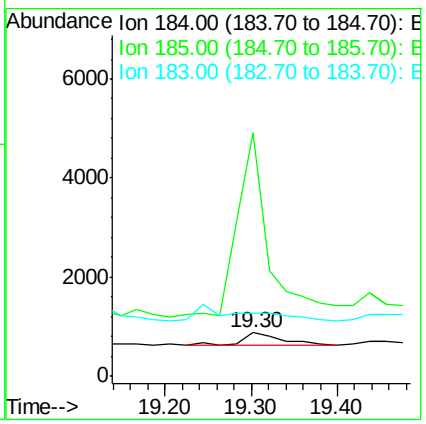
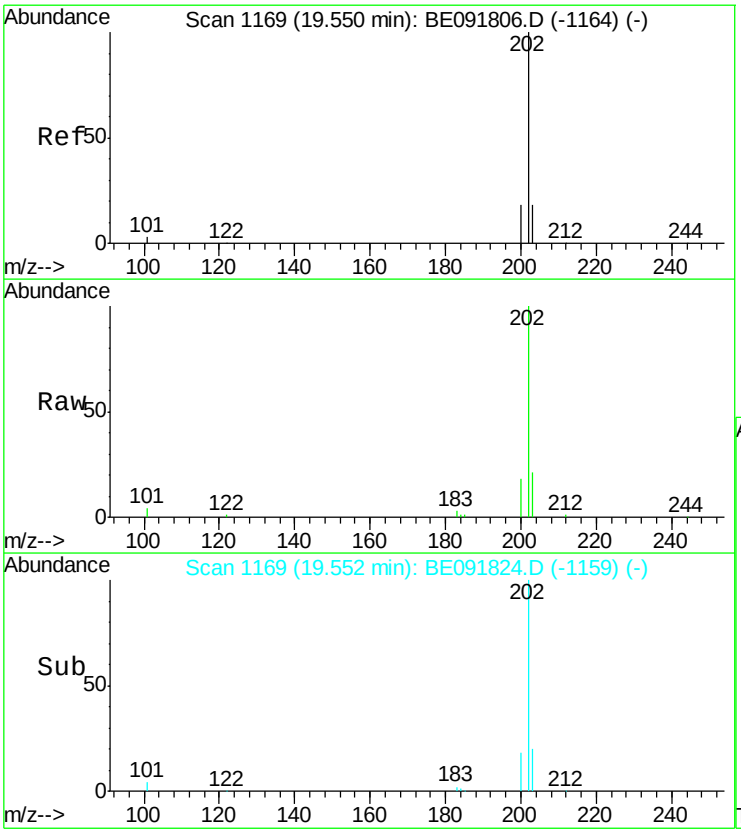
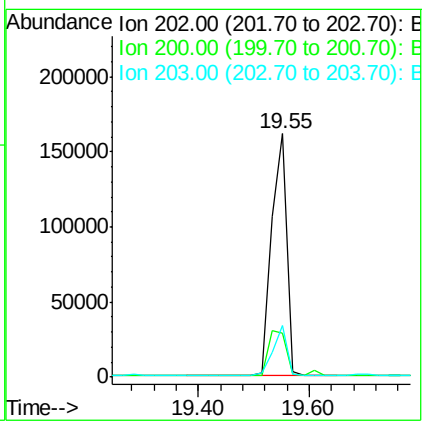


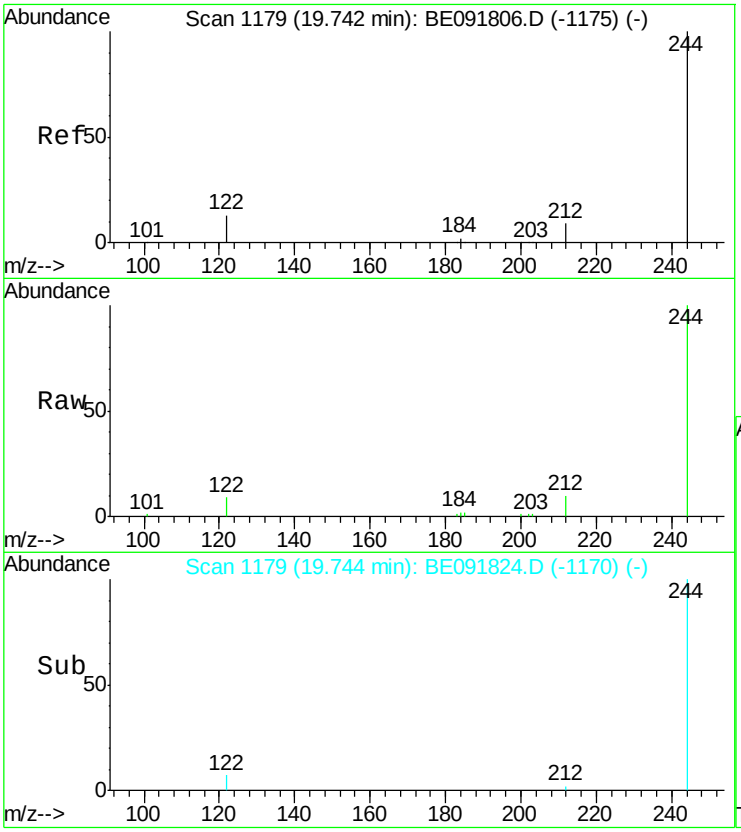


#28
Pyrene
Concen: 5.96 ng
RT: 19.55 min Scan# 1169
Delta R.T. 0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:202 Resp: 316157

Ion	Ratio	Lower	Upper
202	100		
200	22.0	16.8	25.2
203	18.6	14.0	21.0





#29
Terphenyl-d14
Concen: 5.65 ng
RT: 19.74 min Scan# 1179
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:244 Resp: 193327

Ion	Ratio	Lower	Upper
244	100		
212	9.6	6.9	10.3
122	8.7	11.0	16.4#

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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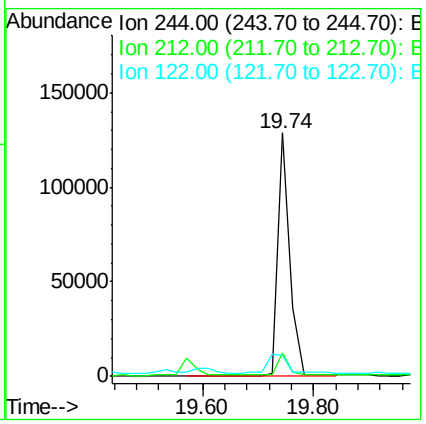
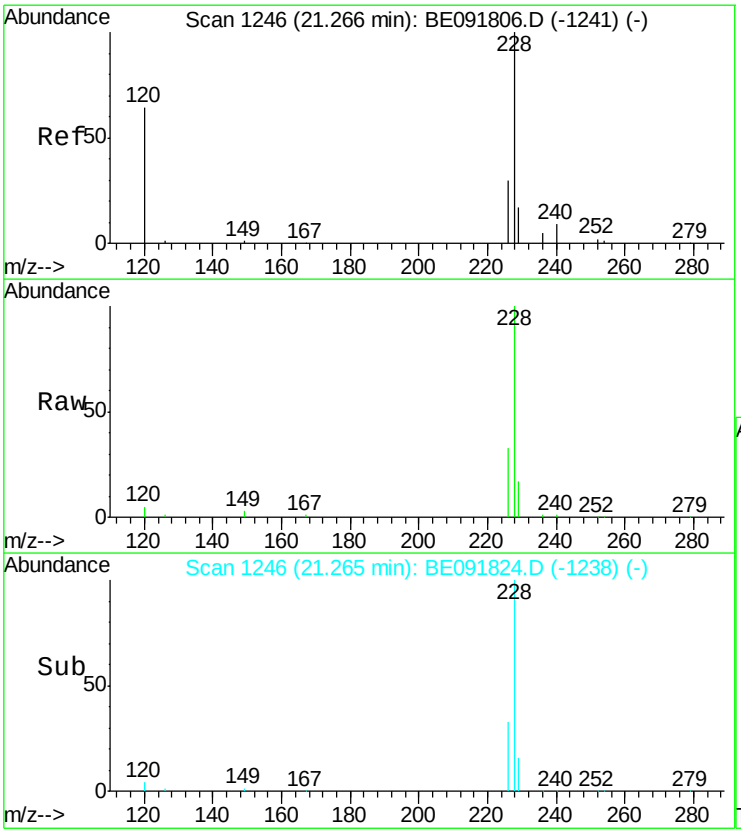
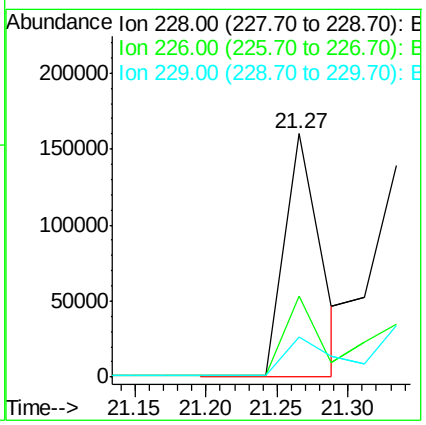


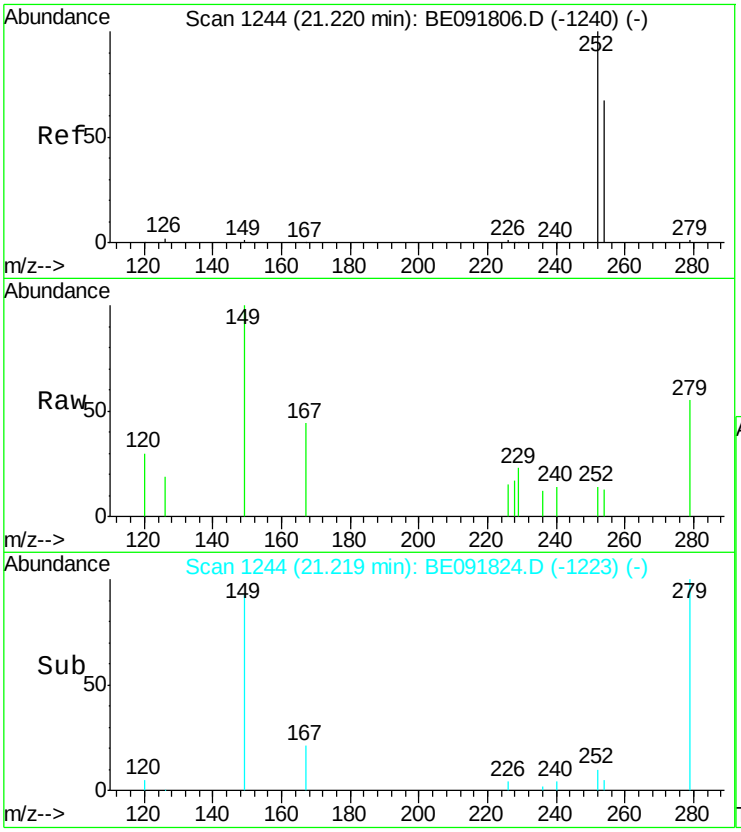


#30
Benzo(a)anthracene
Concen: 4.96 ng m
RT: 21.27 min Scan# 1246
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:228 Resp: 289161

Ion	Ratio	Lower	Upper
228	100		
226	33.5	21.0	31.4#
229	16.5	15.7	23.5





#31
3,3'-Dichlorobenzidine
Concen: 0.03 ng
RT: 21.22 min Scan# 1244
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:252 Resp: 1009

Ion	Ratio	Lower	Upper
252	100		
254	86.8	51.1	76.7#
126	133.8	12.6	18.8#

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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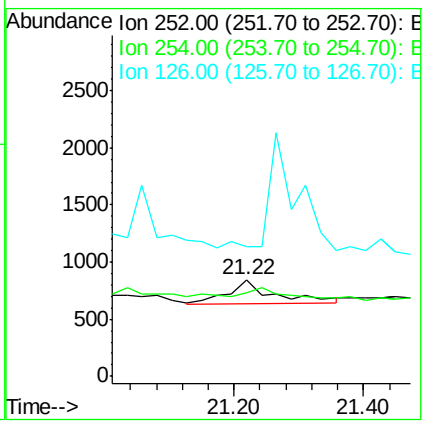
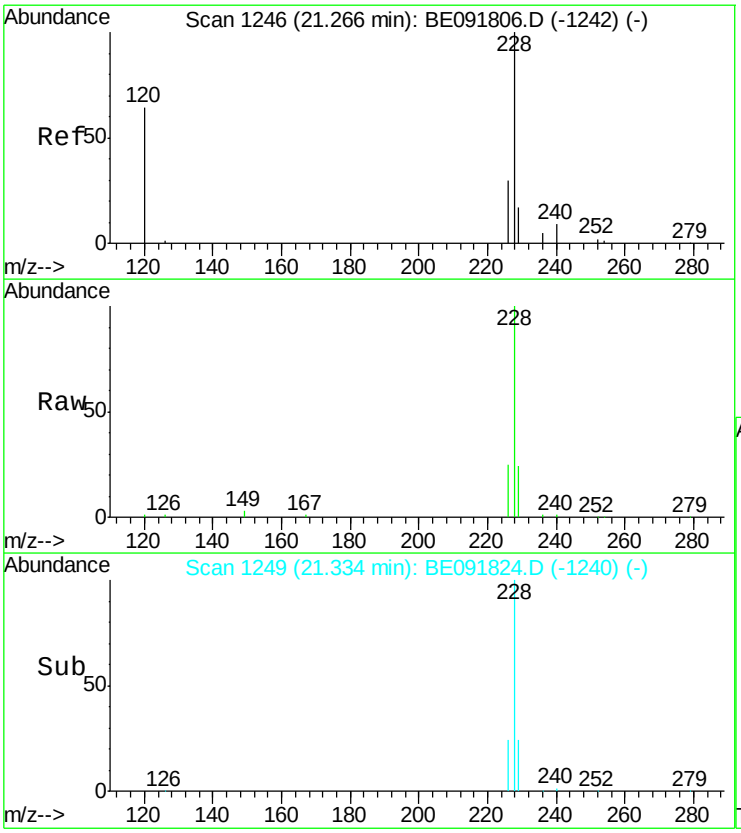
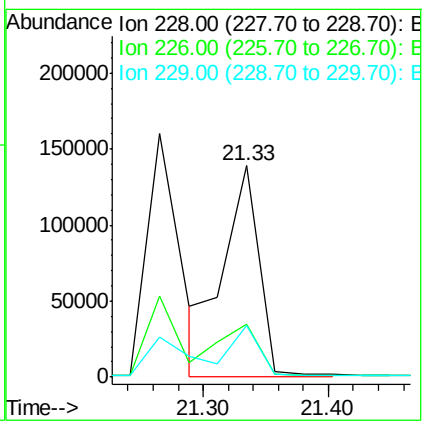


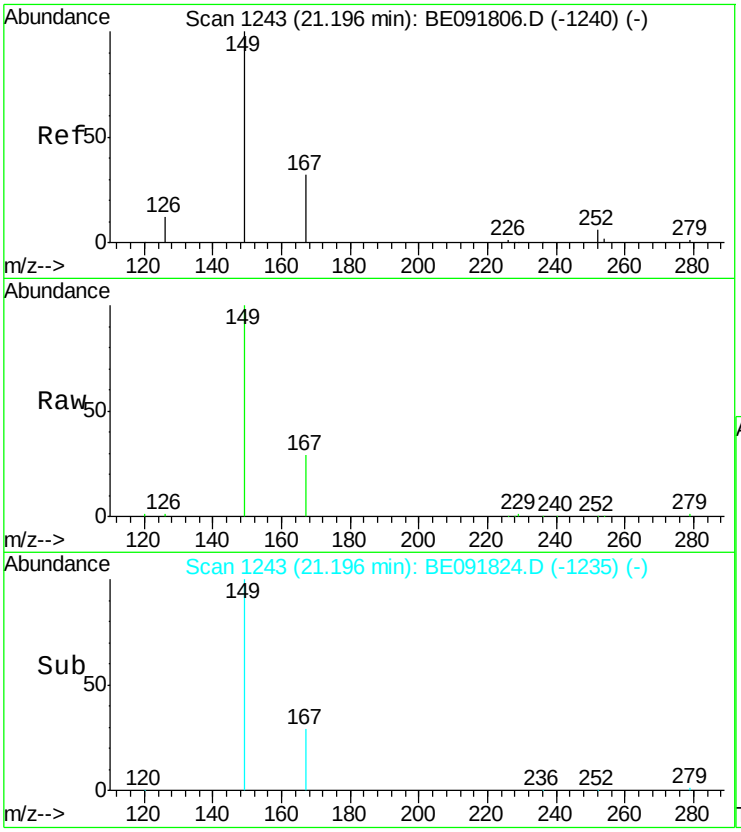


#32
Chrysene
Concen: 5.50 ng m
RT: 21.33 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:228 Resp: 275696

Ion	Ratio	Lower	Upper
228	100		
226	24.8	24.0	36.0
229	24.3	15.9	23.9#





#33
Bis(2-ethylhexyl)phthalate
Concen: 8.03 ng
RT: 21.20 min Scan# 1243
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:149 Resp: 272266

Ion	Ratio	Lower	Upper
149	100		
167	28.7	19.5	29.3
279	0.0	10.0	15.0#

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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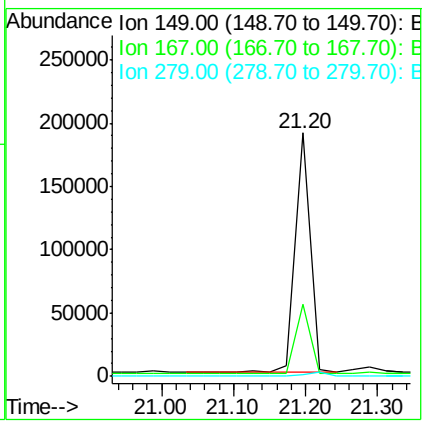
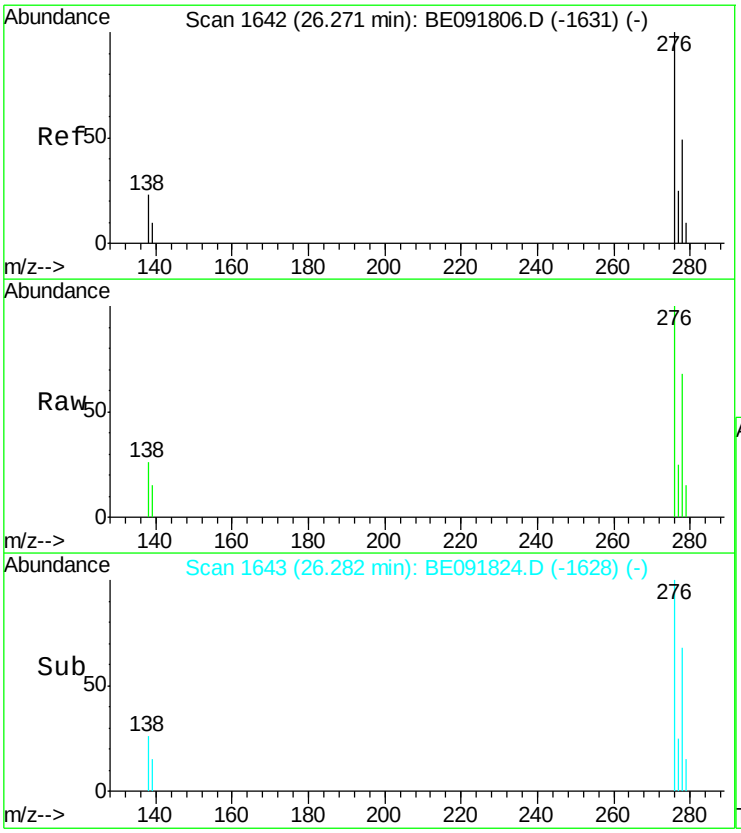
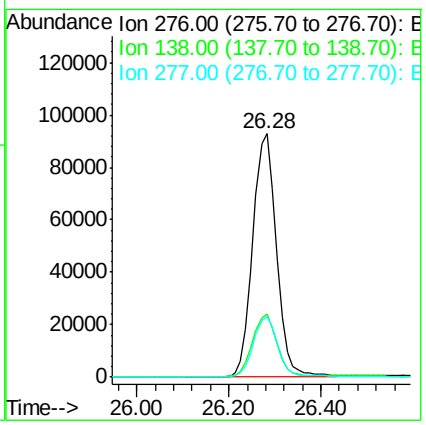


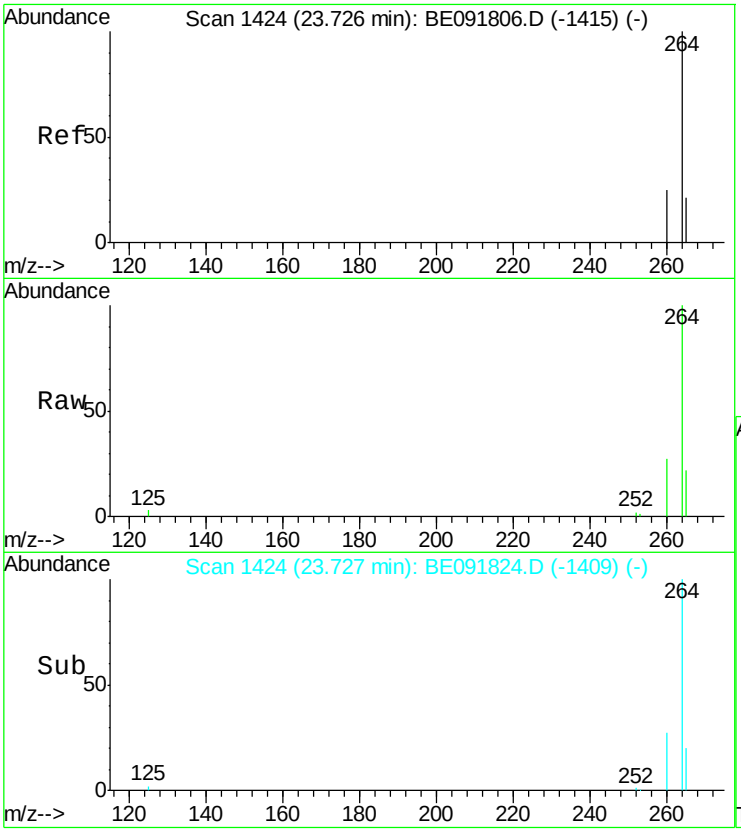


#34
Indeno(1,2,3-cd)pyrene
Concen: 5.55 ng
RT: 26.28 min Scan# 1643
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:276 Resp: 331540

Ion	Ratio	Lower	Upper
276	100		
138	26.2	23.4	35.2
277	25.2	19.8	29.8

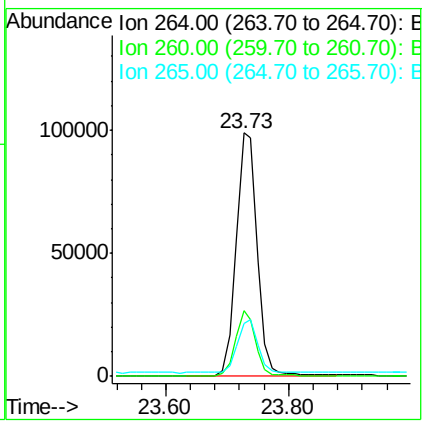




#35
Perylene-d12
Concen: 5.00 ng
RT: 23.73 min Scan# 1424
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:264 Resp: 234244

Ion	Ratio	Lower	Upper
264	100		
260	26.8	20.0	30.0
265	21.8	17.5	26.3



Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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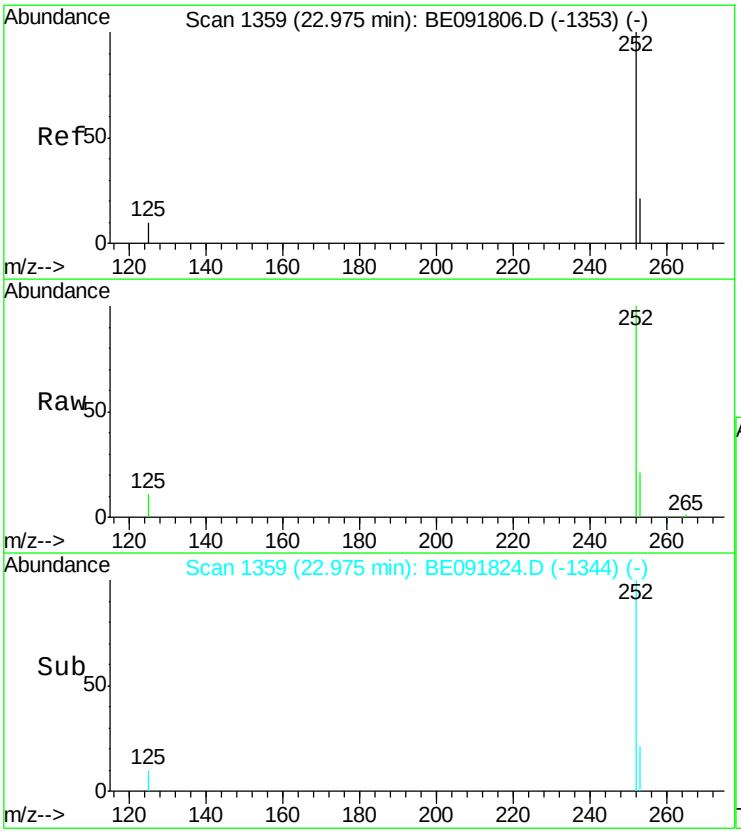
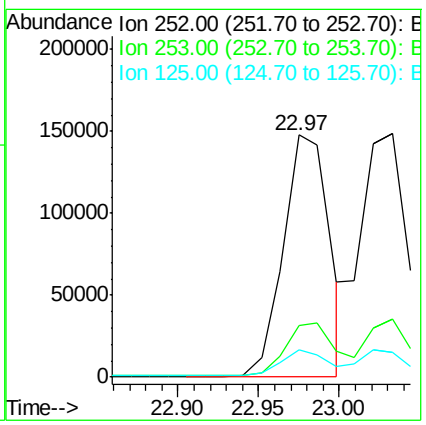
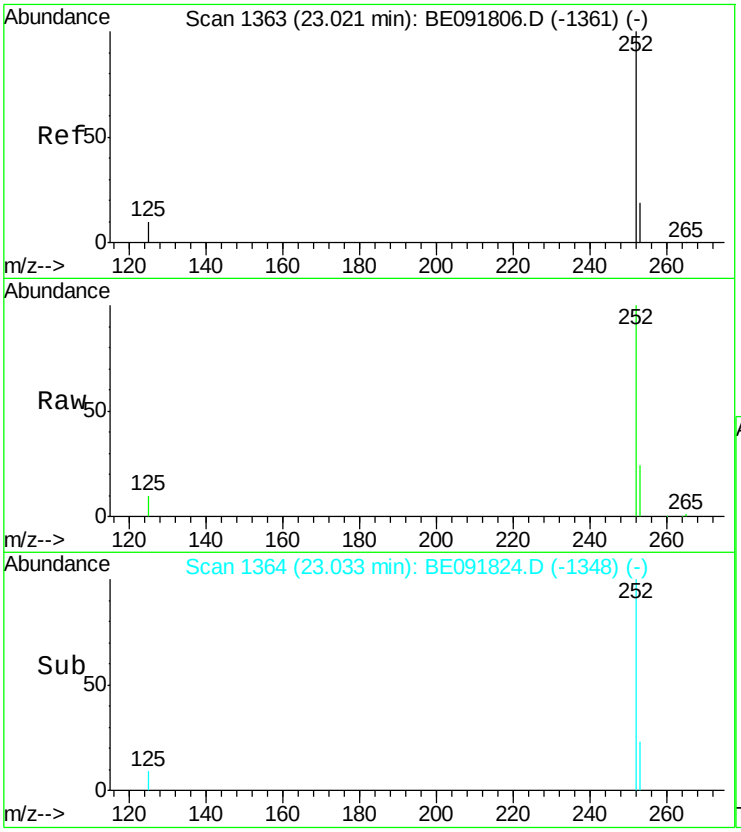


#36
Benzo(b)fluoranthene
Concen: 4.99 ng
RT: 22.97 min Scan# 1359
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:252 Resp: 292632

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	11.3	10.2	15.2





#37
Benzo(k)fluoranthene
Concen: 5.03 ng
RT: 23.03 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:252 Resp: 301759

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.6	26.4
125	10.0	9.9	14.9

Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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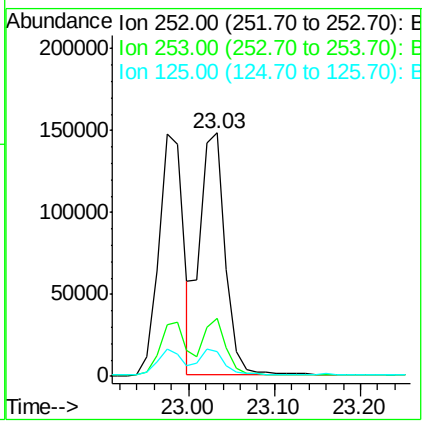
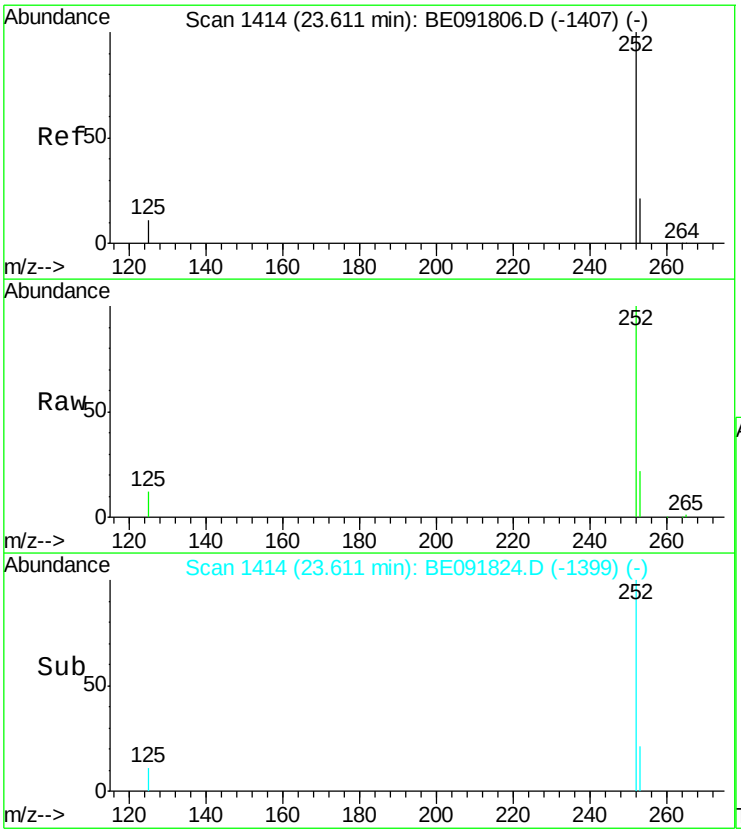
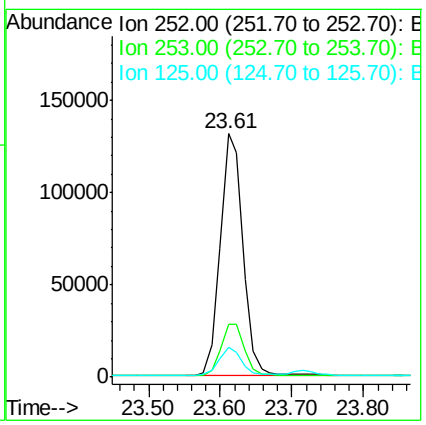


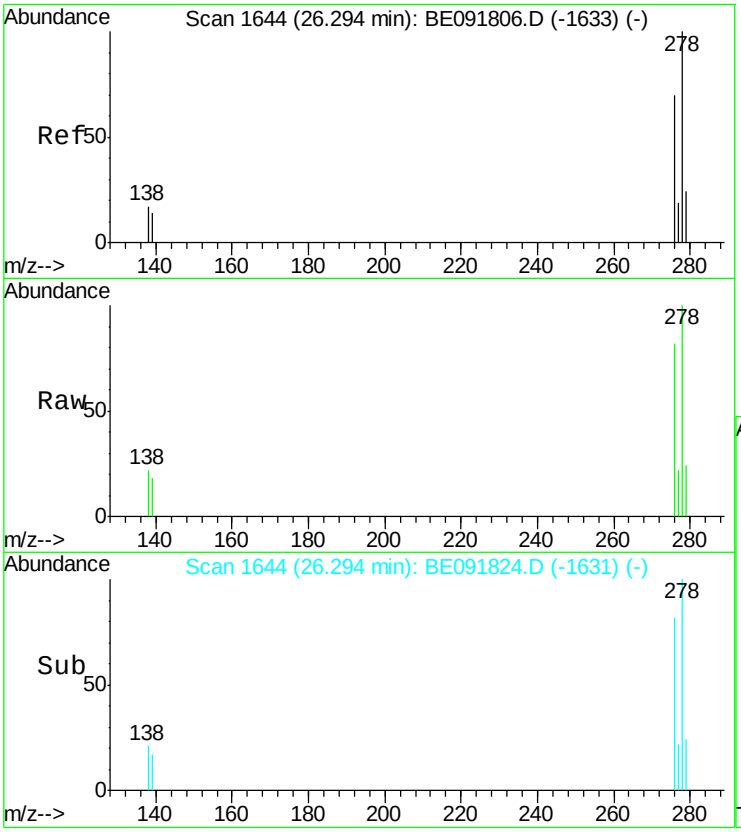


#38
Benzo(a)pyrene
Concen: 5.21 ng
RT: 23.61 min Scan# 1414
Delta R.T. -0.02 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:252 Resp: 291363

Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.1	27.1
125	12.2	11.0	16.4

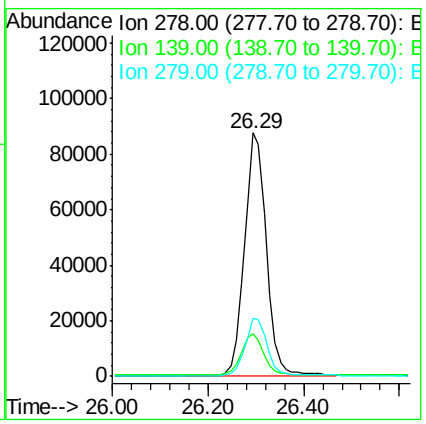




#39
Dibenzo(a,h)anthracene
Concen: 5.07 ng
RT: 26.29 min Scan# 1644
Delta R.T. -0.05 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:278 Resp: 276986

Ion	Ratio	Lower	Upper
278	100		
139	17.7	16.0	24.0
279	23.8	19.4	29.2



Instrument :
BNA_E
ClientSampleId :
SS043MW011-160512MSD

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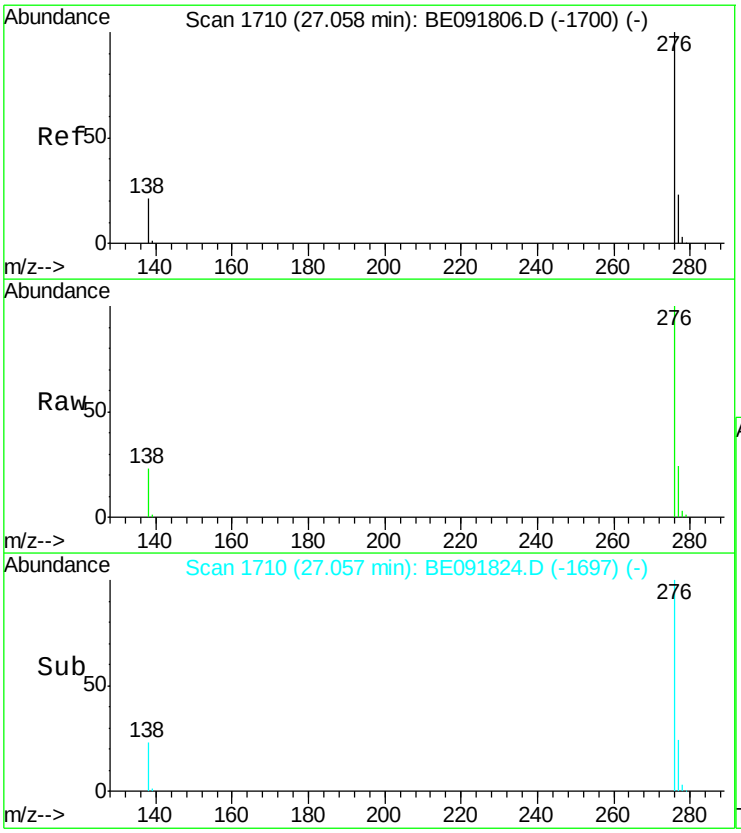

#40
Benzo(g,h,i)perylene
Concen: 4.96 ng
RT: 27.06 min Scan# 1710
Delta R.T. -0.05 min
Lab File: BE091824.D
Acq: 19 May 2016 23:50

Tgt Ion:276 Resp: 279632

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	23.2	20.4	30.6