Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106362.D
Acq On : 12 Jun 2018 23:11
Operator : JU/SJ
Sample : J3322-01
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId :

Quant Time: Jun 13 01:12:03 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 11 15:00:22 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.98	152	139325	20.00	ng		0.00
21) Naphthalene-d8	8.26	136	479215	20.00	ng		0.00
38) Acenaphthene-d10	10.02	164	204875	20.00	ng		0.00
63) Phenanthrene-d10	11.51	188	420937	20.00	ng		0.00
75) Chrysene-d12	14.17	240	387207	20.00	ng		0.00
86) Perylene-d12	15.71	264	287294	20.00	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.62	112	795608	96.65	ng		0.04
7) Phenol-d6	6.63	99	1002981	96.44	ng		0.04
23) Nitrobenzene-d5	7.54	82	562486	69.05	ng		0.00
41) 2,4,6-Tribromophenol	10.81	330	217435	110.30	ng		0.00
44) 2-Fluorobiphenyl	9.33	172	878983	72.67	ng		0.00
78) Terphenyl-d14	13.10	244	1007522	64.63	ng		0.01
Target Compounds							Qvalue
9) Benzaldehyde	6.76	77	18836	2.388	ng		81
10) Phenol	6.64	94	24824	2.186	ng	#	1
19) n-Nitroso-di-n-propylamine	7.54	70	76753	9.837	ng	#	75
25) Isophorone	7.54	82	562477	35.352	ng	#	64
31) Naphthalene	8.29	128	3065398	141.503	ng	#	87
32) Benzoic acid	8.07	122	16306	10.073	ng	#	18
33) 4-Chloroaniline	8.29	127	512983	53.435	ng	#	32
37) 2-Methylnaphthalene	8.97	142	146628	9.938	ng		98
45) 1,1'-Biphenyl	9.43	154	169515	10.682	ng		98
48) Acenaphthylene	9.88	152	208161	10.709	ng		99
49) Dimethylphthalate	9.72	163	108729	7.428	ng		100
51) Acenaphthene	10.05	154	367721	29.294	ng		99
53) 2,4-Dinitrophenol	10.17	184	230	8.763	ng	#	1
54) Dibenzofuran	10.22	168	317996	18.812	ng		98
57) Fluorene	10.57	166	384119	28.681	ng		99
64) 4,6-Dinitro-2-methylphenol	10.72	198	116	6.339	ng	#	1
66) 4-Bromophenyl-phenylether	10.81	248	13627	2.846	ng	#	1
70) Phenanthrene	11.54	178	1307232	63.412	ng		96
71) Anthracene	11.59	178	465946	22.561	ng		99
72) Carbazole	11.75	167	320402	16.804	ng		98
74) Fluoranthene	12.75	202	1222525	55.608	ng		98
77) Pyrene	12.98	202	1063504	43.871	ng		97
80) Benzo(a)anthracene	14.15	228	661348	28.701	ng		97
82) Chrysene	14.19	228	511084	24.294	ng		97
85) Indeno(1,2,3-cd)pyrene	17.27	276	215535	12.837	ng	#	88
87) Benzo(b)fluoranthene	15.25	252	734359	42.286	ng		97
88) Benzo(k)fluoranthene	15.25	252	734359	42.697	ng		98
89) Benzo(a)pyrene	15.64	252	383835	24.572	ng		96
90) Dibenzo(a,h)anthracene	17.46	278	49660	3.813	ng		94
91) Benzo(g,h,i)perylene	17.75	276	194386	15.359	ng		94

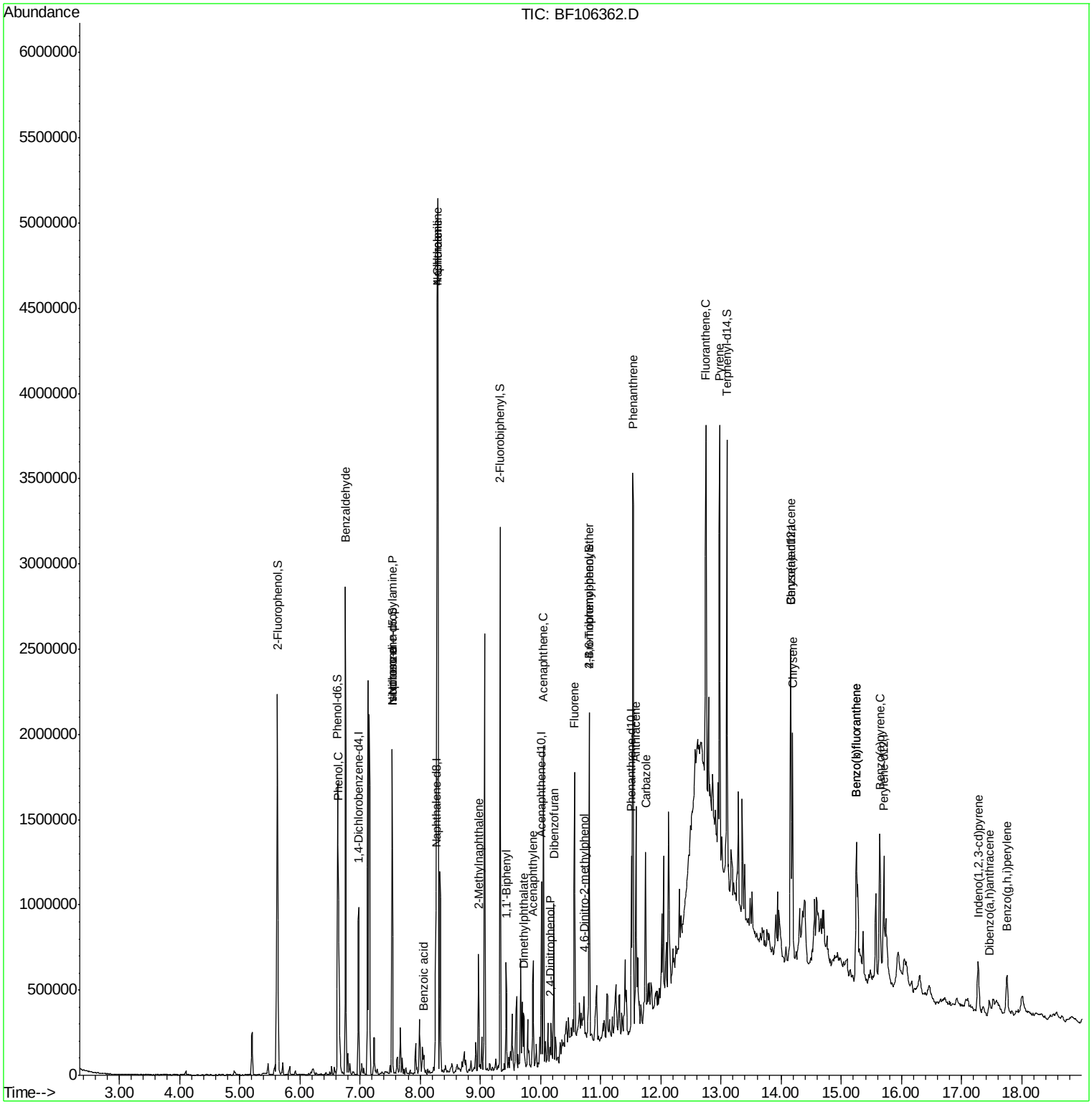
(#) = qualifier out of range (m) = manual integration (+) = signals summed

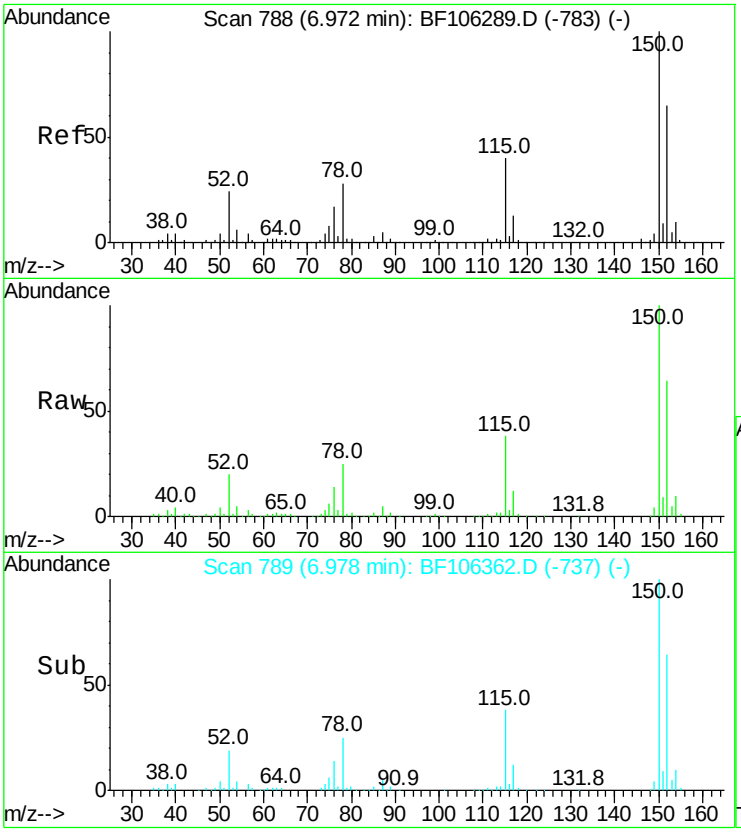
Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106362.D
Acq On : 12 Jun 2018 23:11
Operator : JU/SJ
Sample : J3322-01
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: Jun 13 01:12:03 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 11 15:00:22 2018
Response via : Initial Calibration



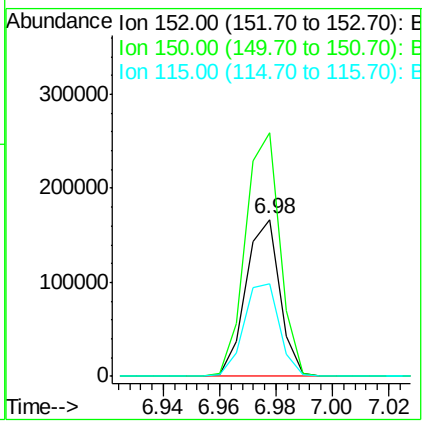


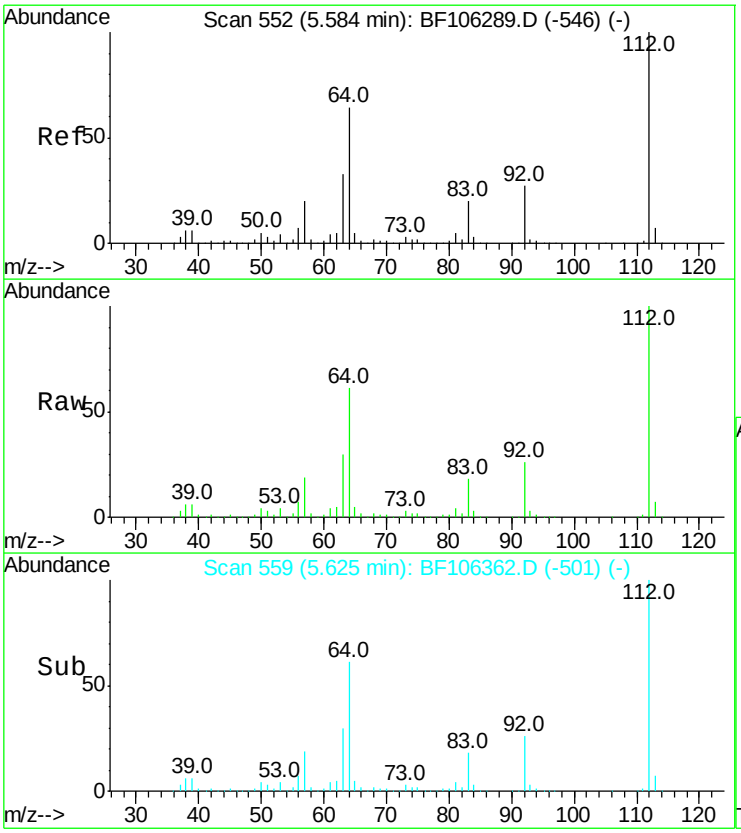
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.98 min Scan# 789
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:152 Resp: 139325

Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.6	186.8
115	59.0	50.1	75.1

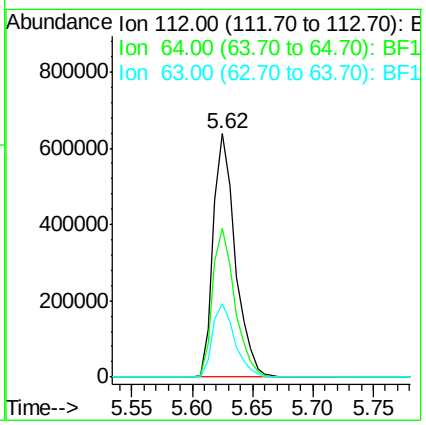


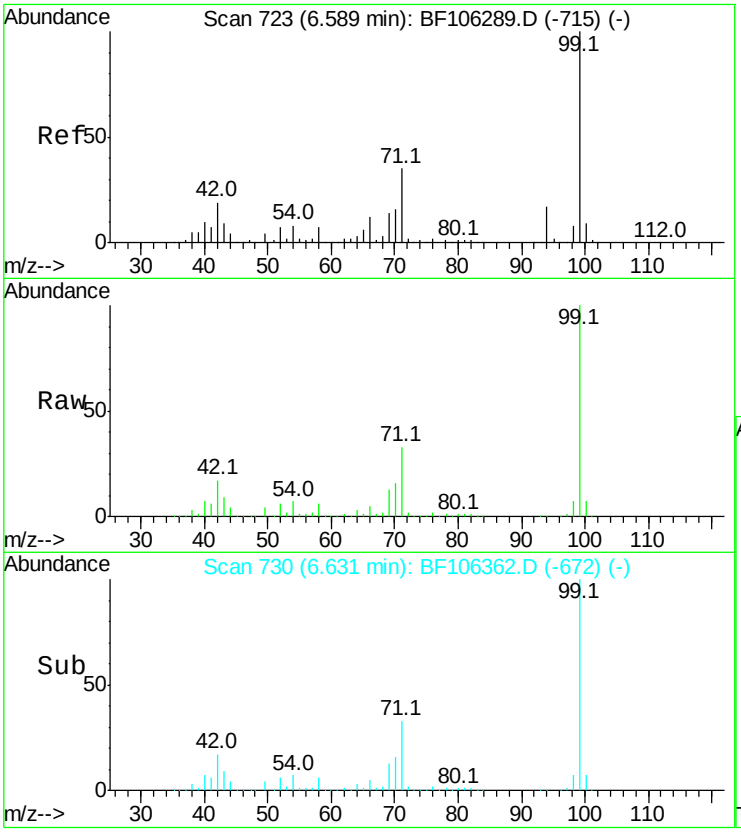


#5
2-Fluorophenol
Concen: 96.649 ng
RT: 5.62 min Scan# 559
Delta R.T. 0.04 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:112 Resp: 795608

Ion	Ratio	Lower	Upper
112	100		
64	61.3	47.9	71.9
63	30.3	23.7	35.5



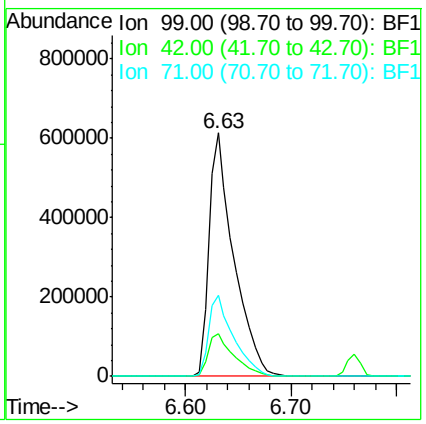


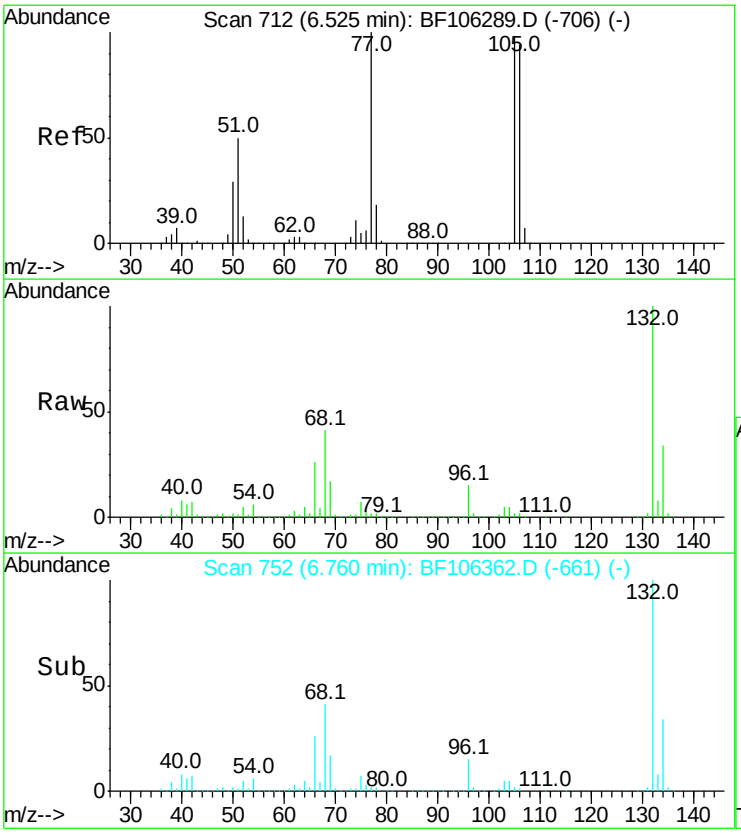
#7
Phenol-d6
Concen: 96.438 ng
RT: 6.63 min Scan# 730
Delta R.T. 0.04 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion: 99 Resp: 1002981

Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.5	21.7
71	33.2	25.4	38.0

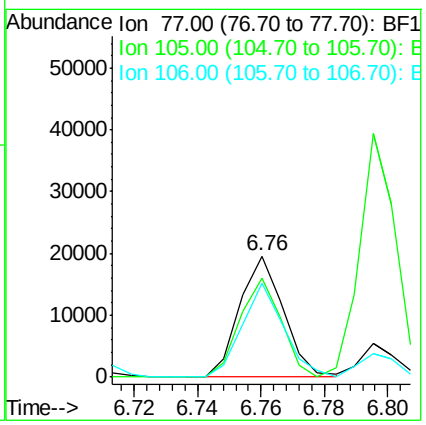


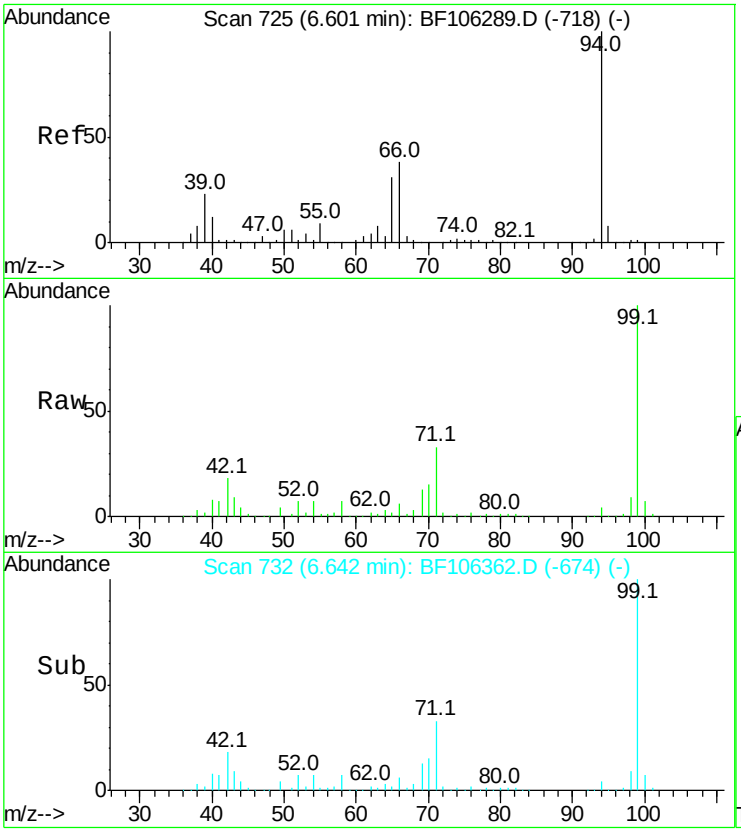


#9
Benzaldehyde
Concen: 2.388 ng
RT: 6.76 min Scan# 752
Delta R.T. 0.24 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion: 77 Resp: 18836

Ion	Ratio	Lower	Upper
77	100		
105	81.7	81.1	121.1
106	77.2	74.5	114.5



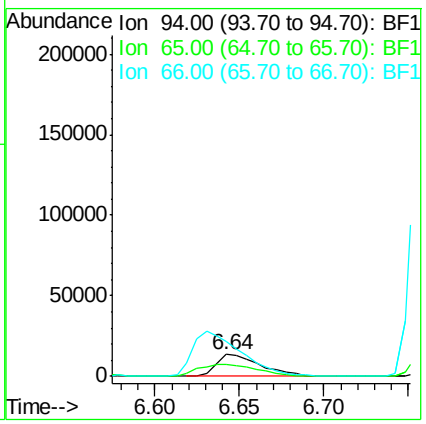


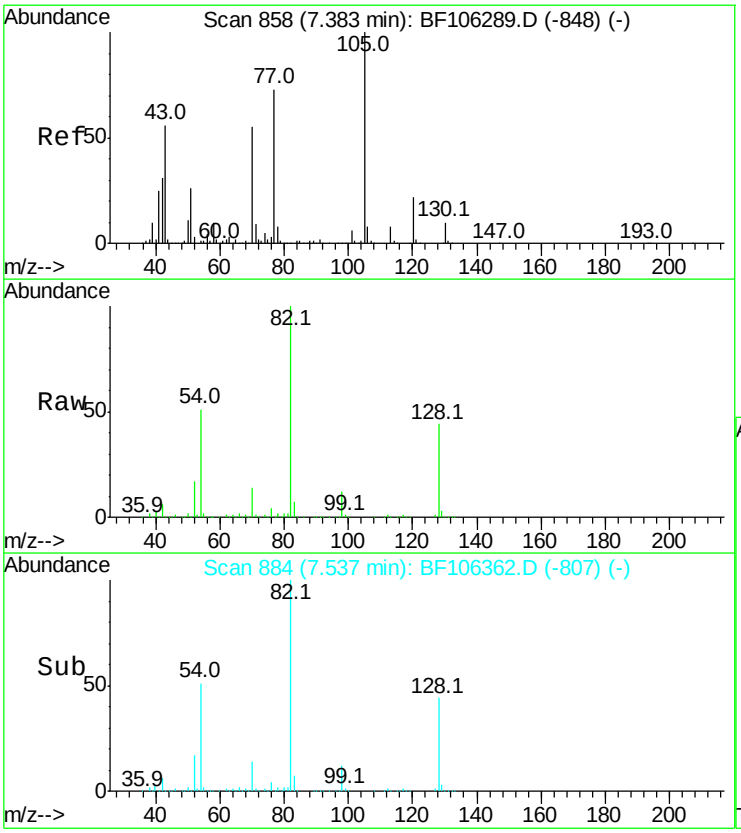
#10
Phenol
Concen: 2.186 ng
RT: 6.64 min Scan# 732
Delta R.T. 0.04 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion: 94 Resp: 24824

Ion	Ratio	Lower	Upper
94	100		
65	54.1	7.9	47.9#
66	156.7	16.2	56.2#

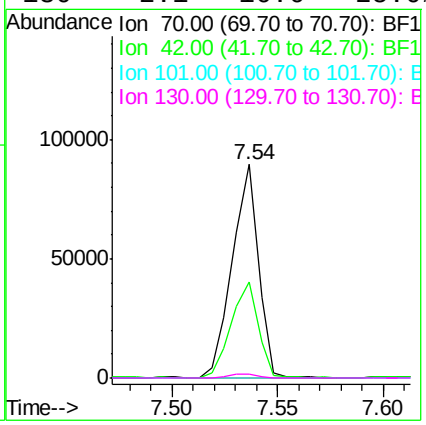


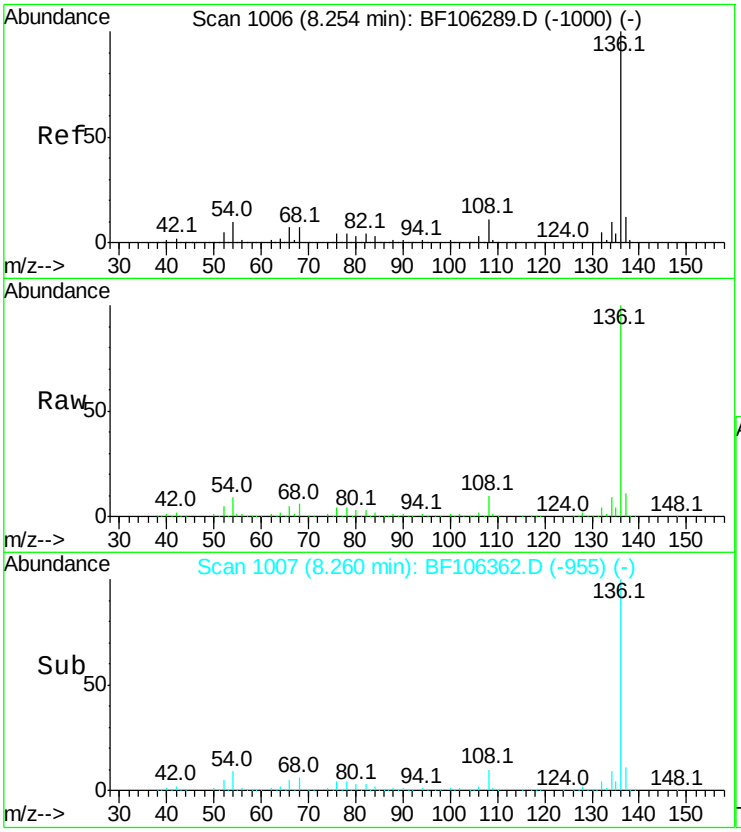


#19
n-Nitroso-di-n-propylamine
Concen: 9.837 ng
RT: 7.54 min Scan# 884
Delta R.T. 0.15 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion: 70 Resp: 76753

Ion	Ratio	Lower	Upper
70	100		
42	44.9	47.5	71.3#
101	0.0	7.4	11.2#
130	2.1	16.6	25.0#



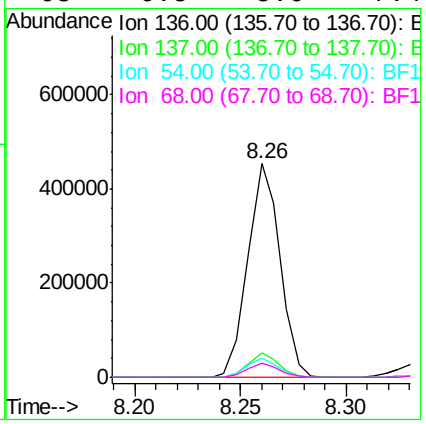


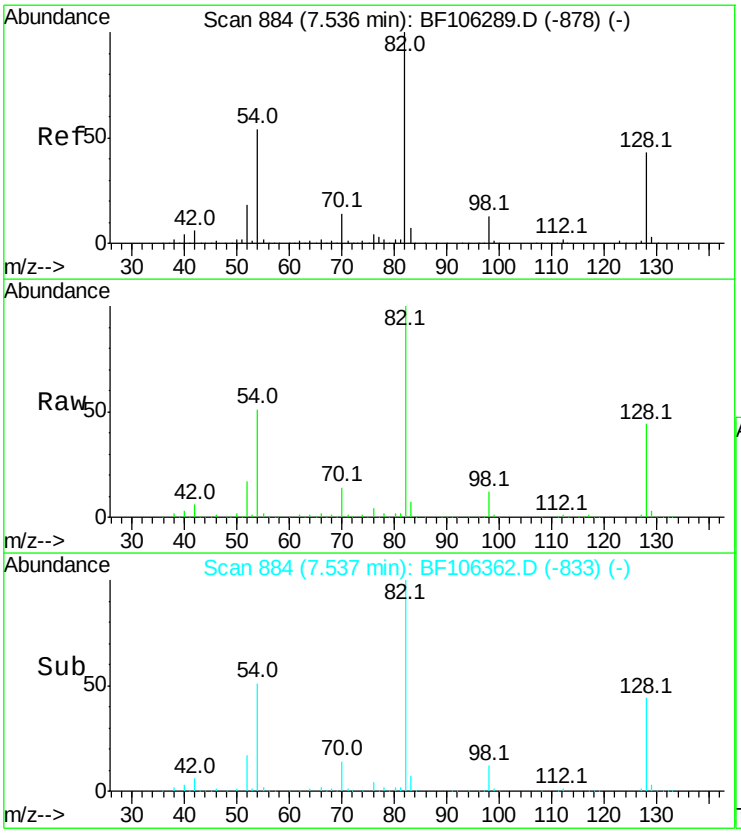
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.26 min Scan# 1007
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:136 Resp: 479215

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.8	6.6	9.8
68	6.5	5.0	7.4

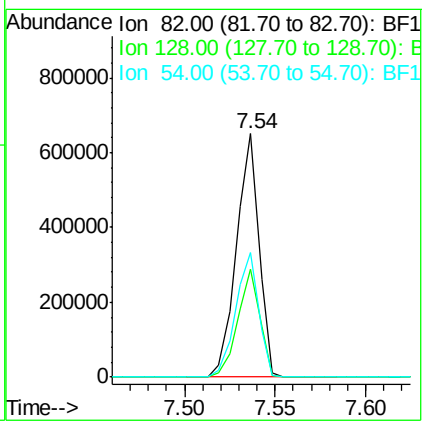


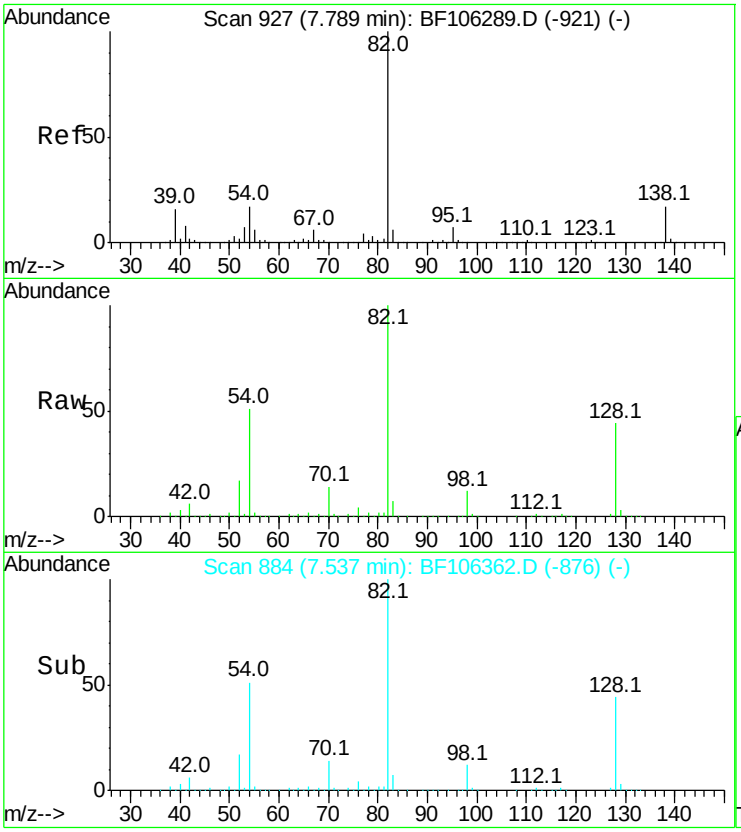


#23
Nitrobenzene-d5
Concen: 69.051 ng
RT: 7.54 min Scan# 884
Delta R.T. 0.00 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion: 82 Resp: 562486

Ion	Ratio	Lower	Upper
82	100		
128	44.2	36.1	54.1
54	51.3	41.4	62.2



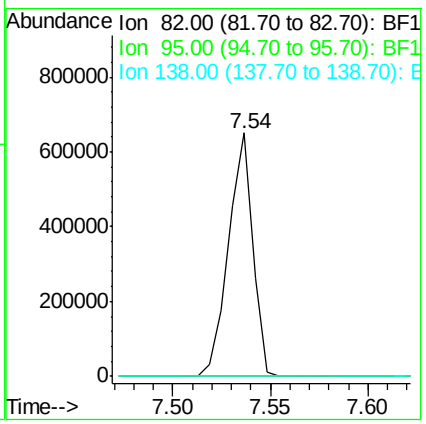


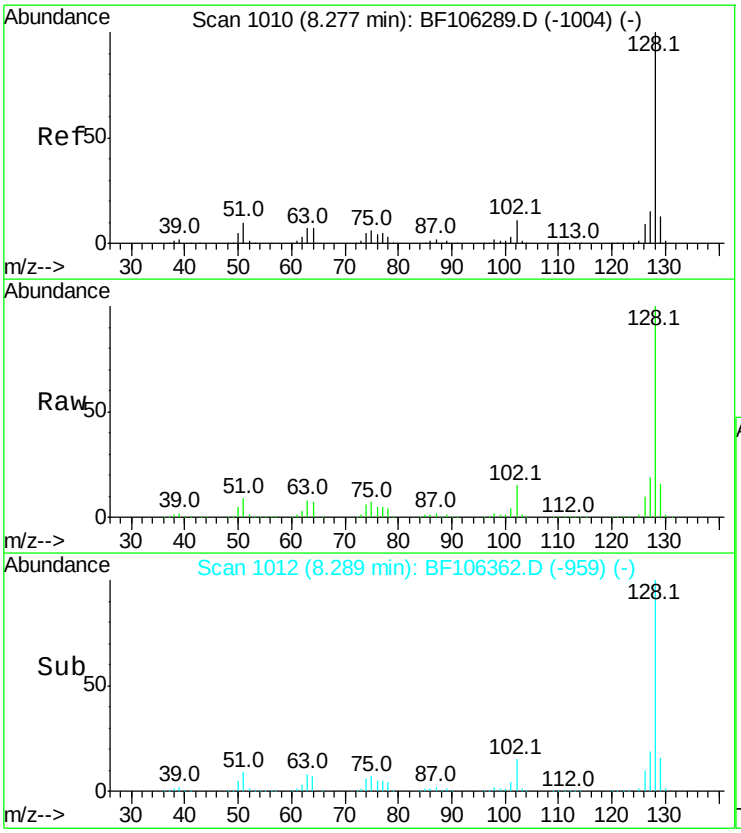
#25
Isophorone
Concen: 35.352 ng
RT: 7.54 min Scan# 884
Delta R.T. -0.25 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion: 82 Resp: 562477

Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#

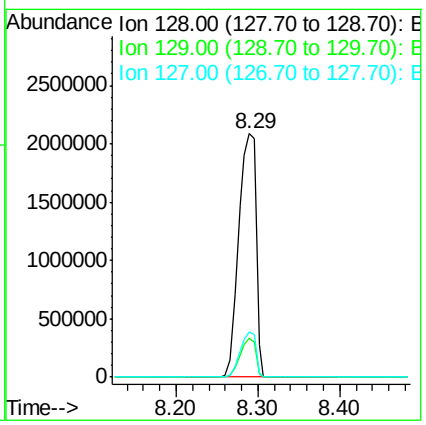


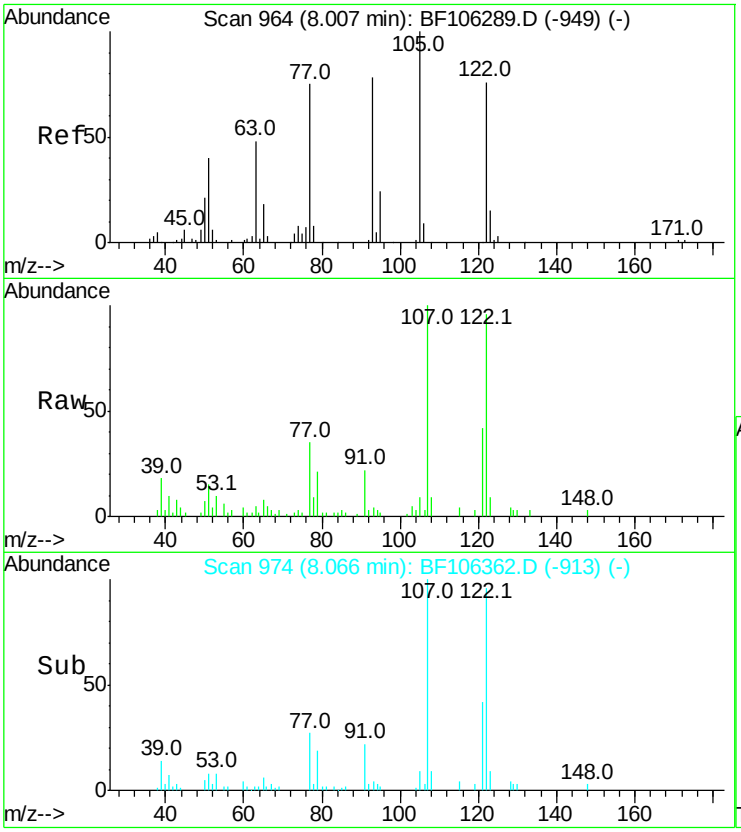


#31
Naphthalene
Concen: 141.503 ng
RT: 8.29 min Scan# 1012
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:128 Resp: 3065398

Ion	Ratio	Lower	Upper
128	100		
129	15.8	8.8	13.2#
127	18.6	10.9	16.3#



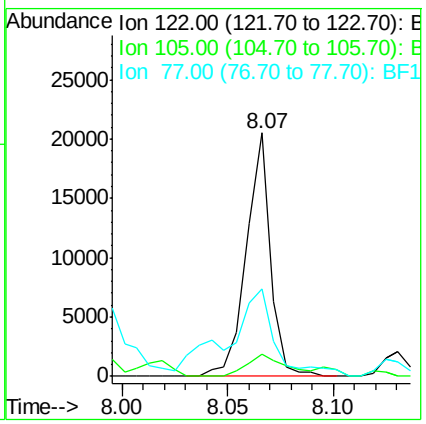


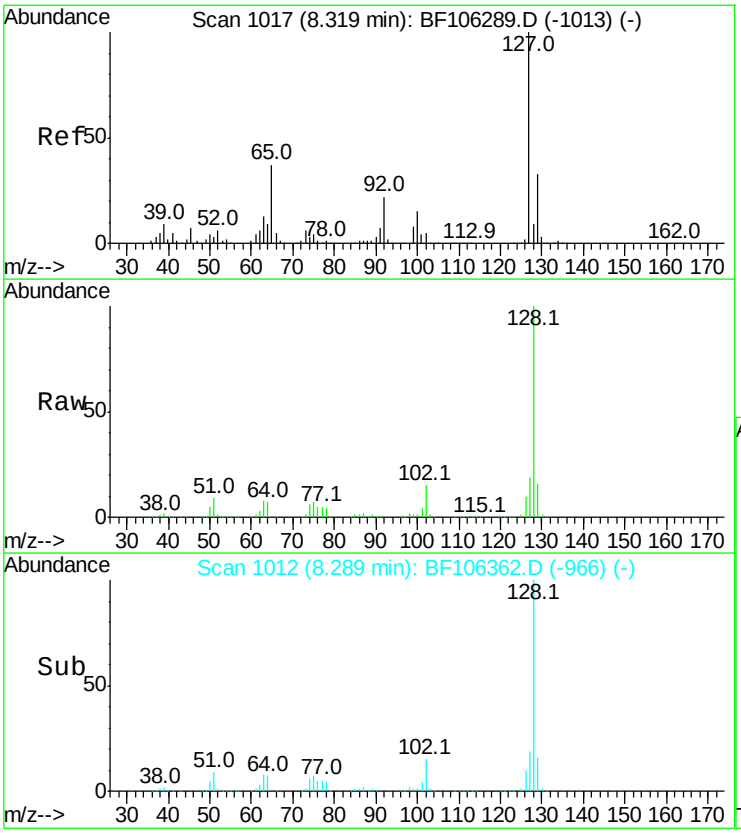
#32
Benzoic acid
Concen: 10.073 ng
RT: 8.07 min Scan# 974
Delta R.T. 0.06 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:122 Resp: 16306

Ion	Ratio	Lower	Upper
122	100		
105	9.2	101.1	141.1#
77	35.8	70.7	110.7#

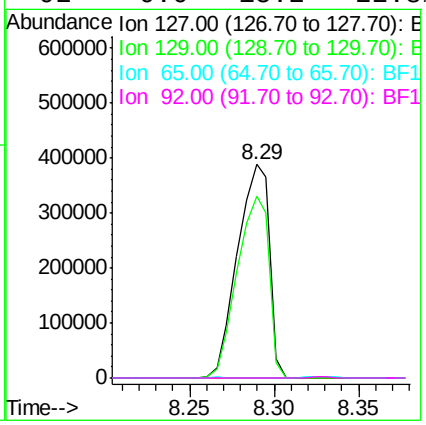


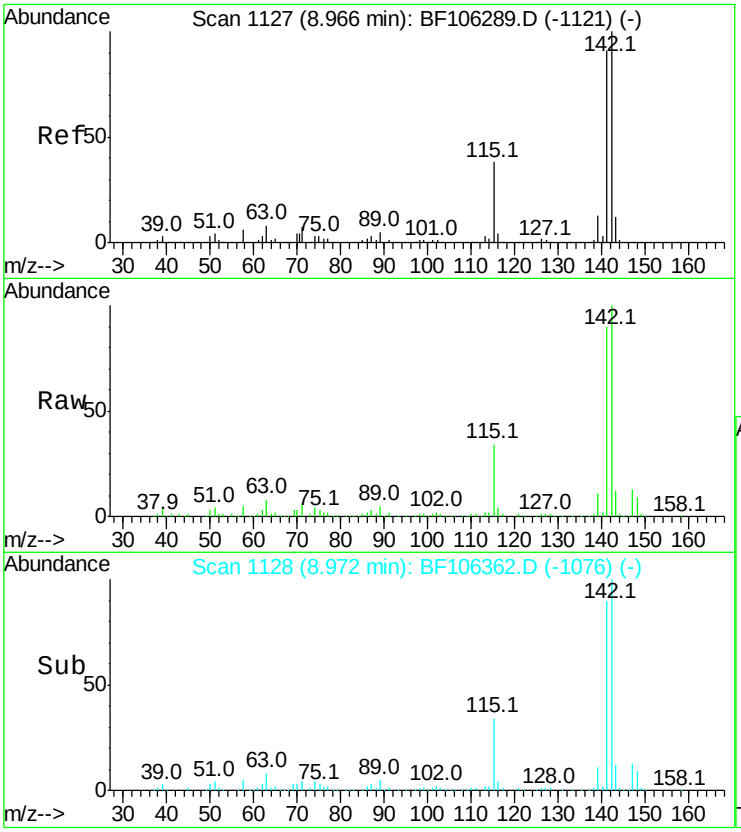


#33
4-Chloroaniline
Concen: 53.435 ng
RT: 8.29 min Scan# 1012
Delta R.T. -0.03 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:127 Resp: 512983

Ion	Ratio	Lower	Upper
127	100		
129	85.1	25.9	38.9#
65	0.0	25.0	37.4#
92	0.0	15.2	22.8#



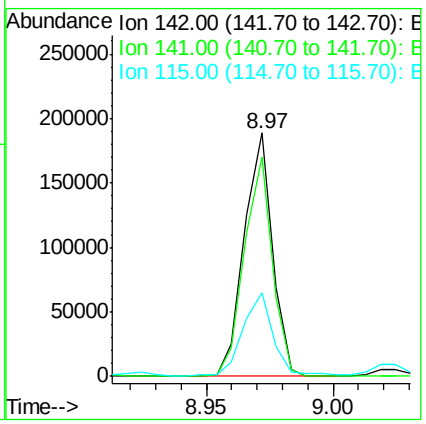


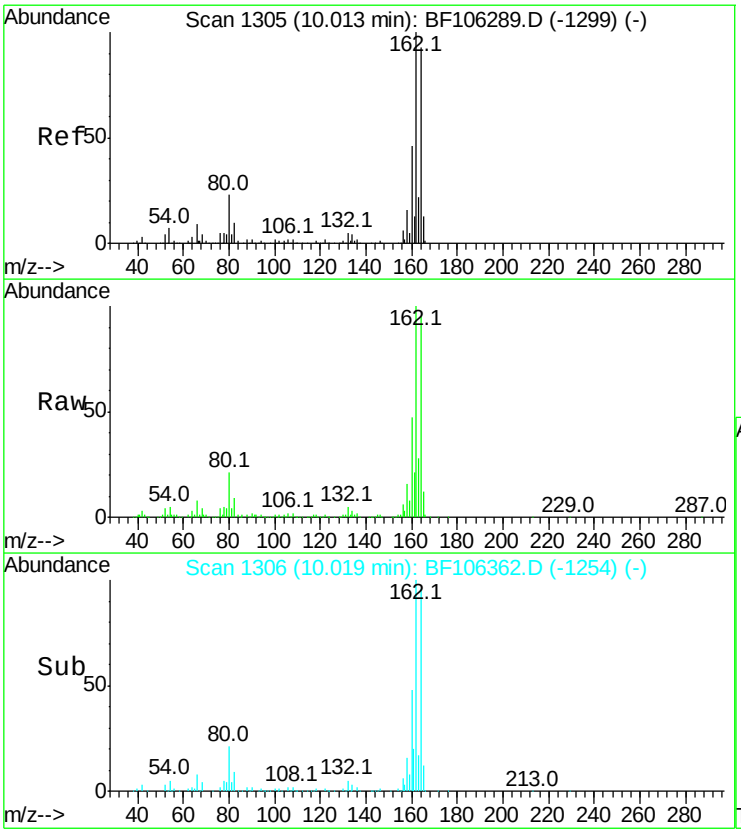
#37
2-Methylnaphthalene
Concen: 9.938 ng
RT: 8.97 min Scan# 1128
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:142 Resp: 146628

Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.8	106.2
115	34.5	26.1	39.1

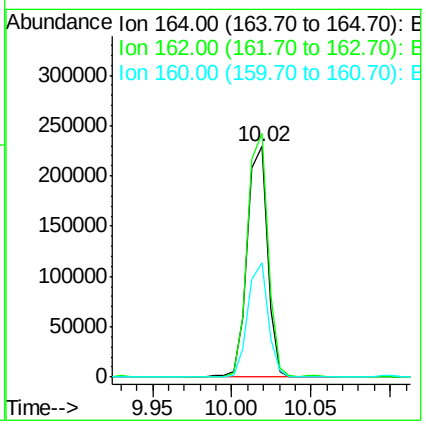


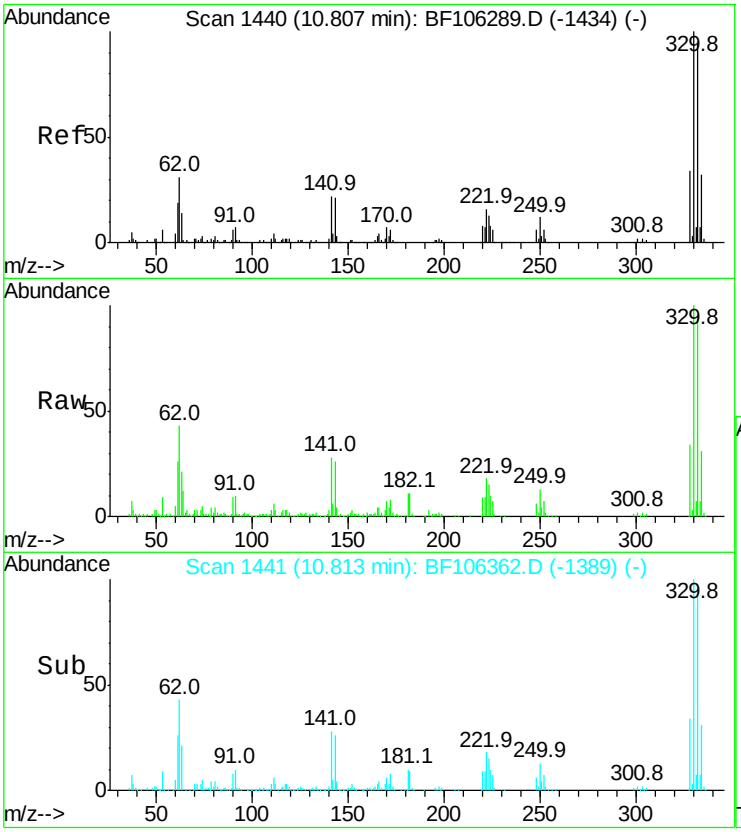


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1306
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:164 Resp: 204875

Ion	Ratio	Lower	Upper
164	100		
162	105.6	86.1	129.1
160	49.6	38.3	57.5



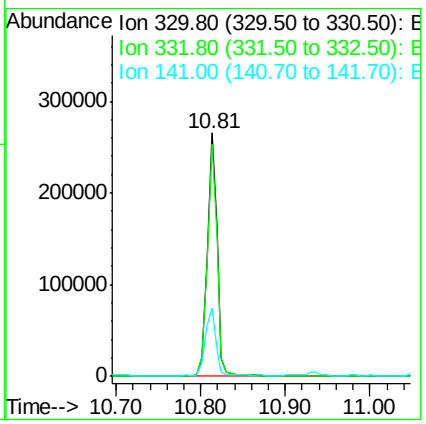


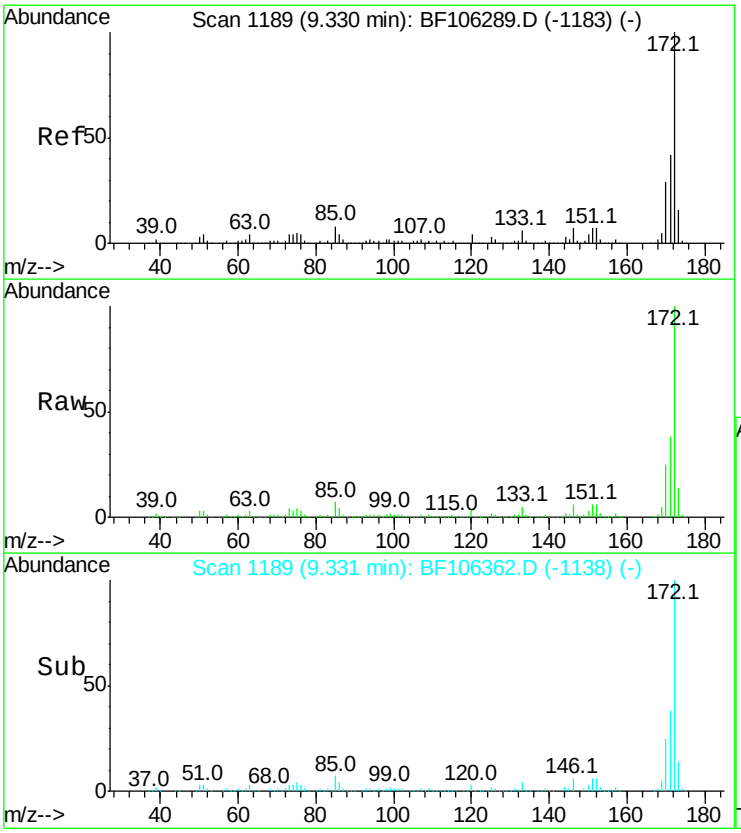
#41
2,4,6-Tribromophenol
Concen: 110.303 ng
RT: 10.81 min Scan# 1441
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:330 Resp: 217435

Ion	Ratio	Lower	Upper
330	100		
332	94.7	77.0	115.6
141	29.1	29.9	44.9#

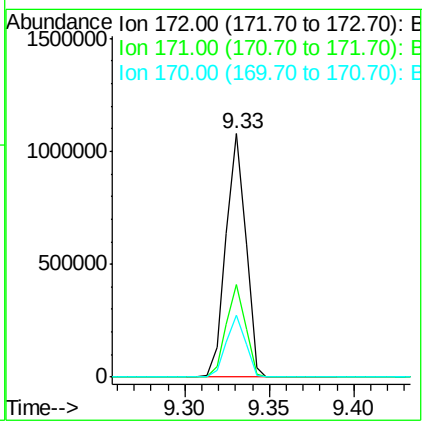


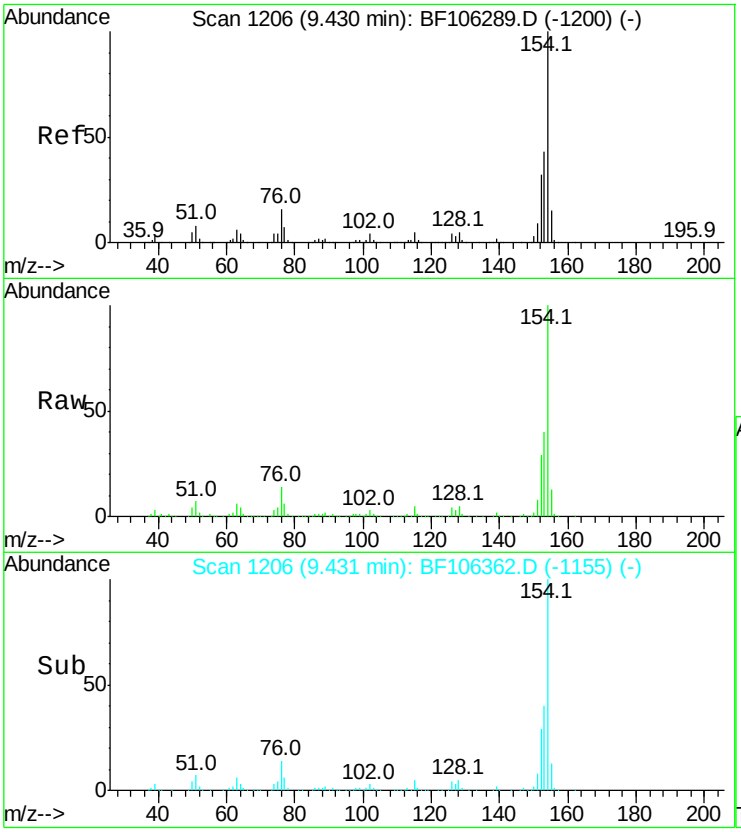


#44
2-Fluorobiphenyl
Concen: 72.671 ng
RT: 9.33 min Scan# 1189
Delta R.T. 0.00 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:172 Resp: 878983

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.7	44.5
170	25.4	19.6	29.4



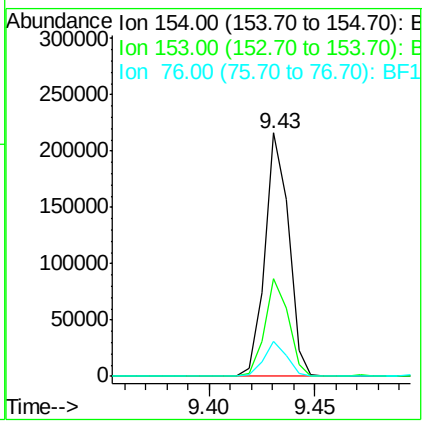


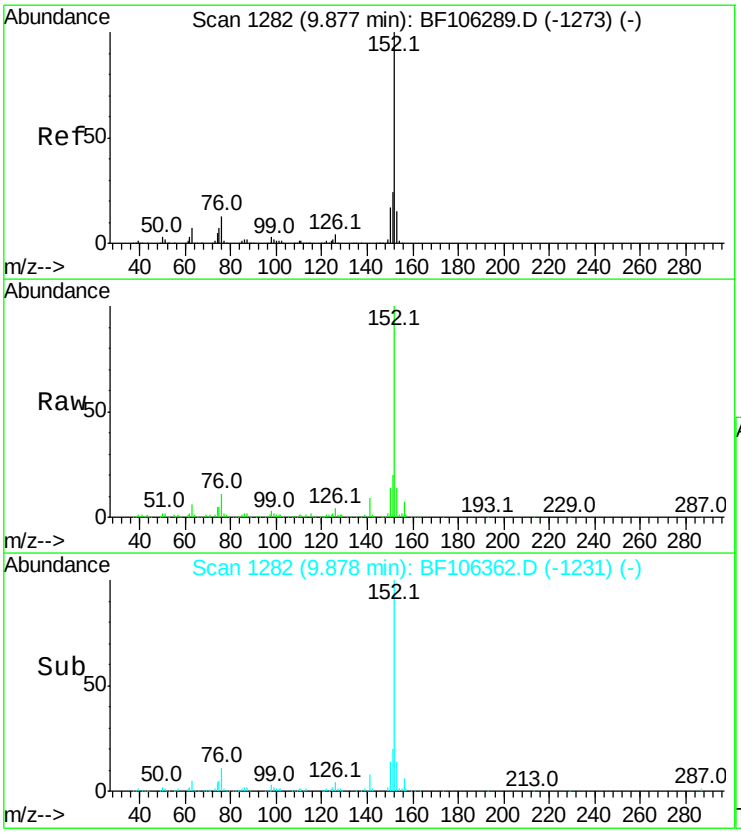
#45
1,1'-Biphenyl
Concen: 10.682 ng
RT: 9.43 min Scan# 1206
Delta R.T. 0.00 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:154 Resp: 169515

Ion	Ratio	Lower	Upper
154	100		
153	40.0	21.3	61.3
76	14.4	0.0	34.0

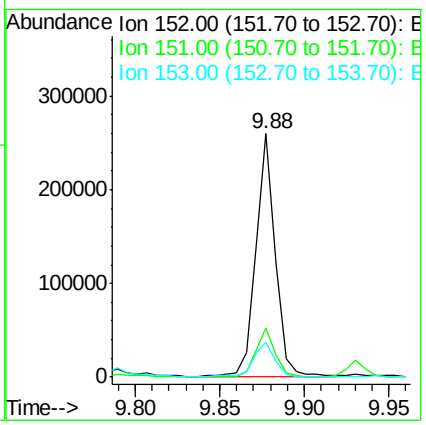


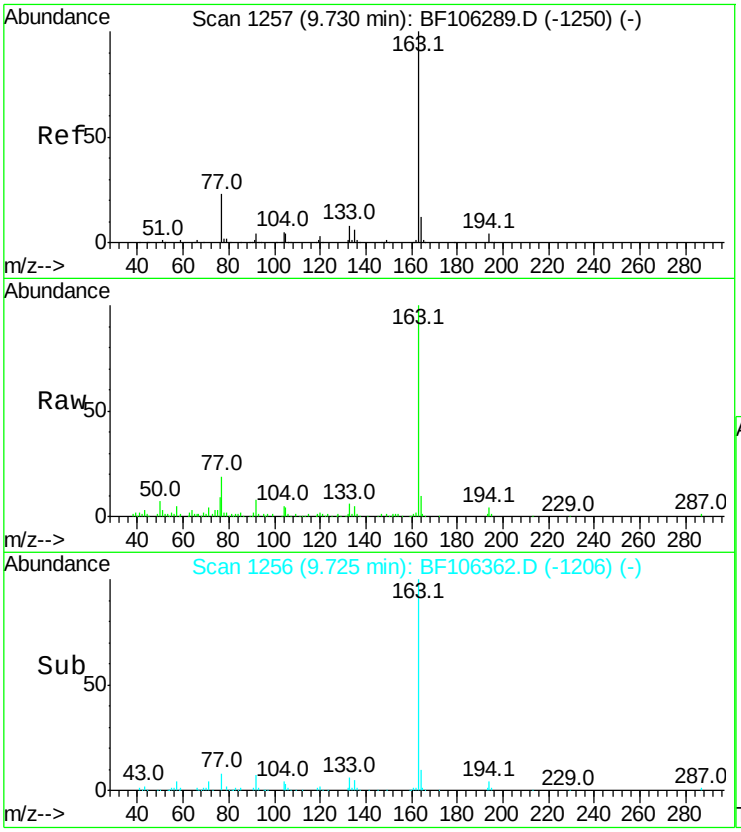


#48
Acenaphthylene
Concen: 10.709 ng
RT: 9.88 min Scan# 1282
Delta R.T. 0.00 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:152 Resp: 208161

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5
153	14.3	10.7	16.1



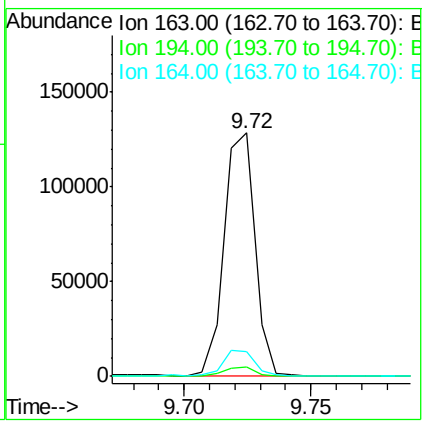


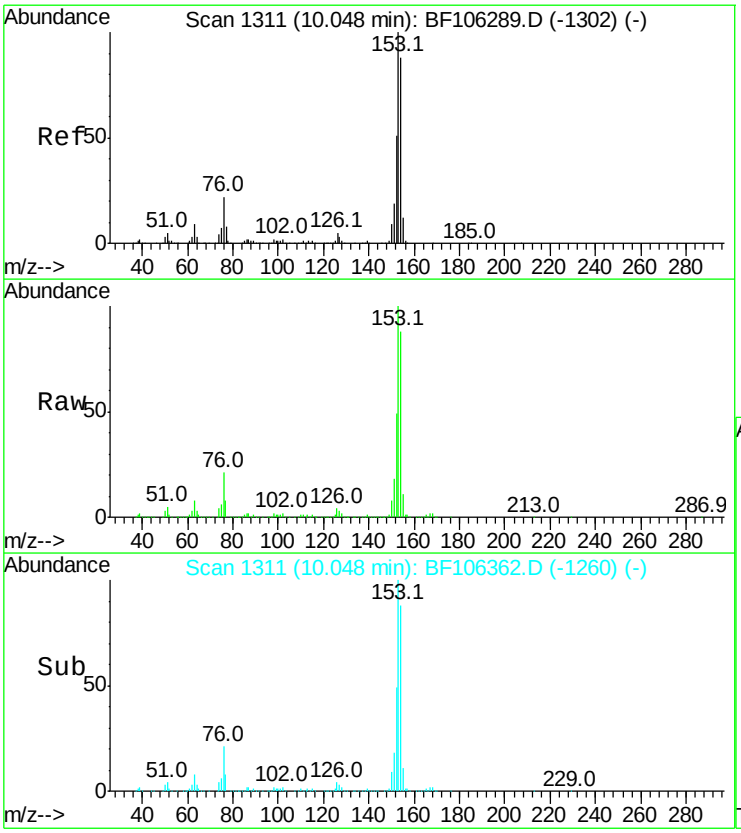
#49
Dimethylphthalate
Concen: 7.428 ng
RT: 9.72 min Scan# 1256
Delta R.T. -0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:163 Resp: 108729

Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.7	4.1
164	10.2	8.2	12.2

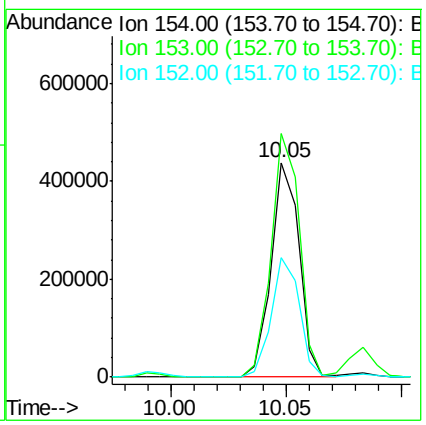


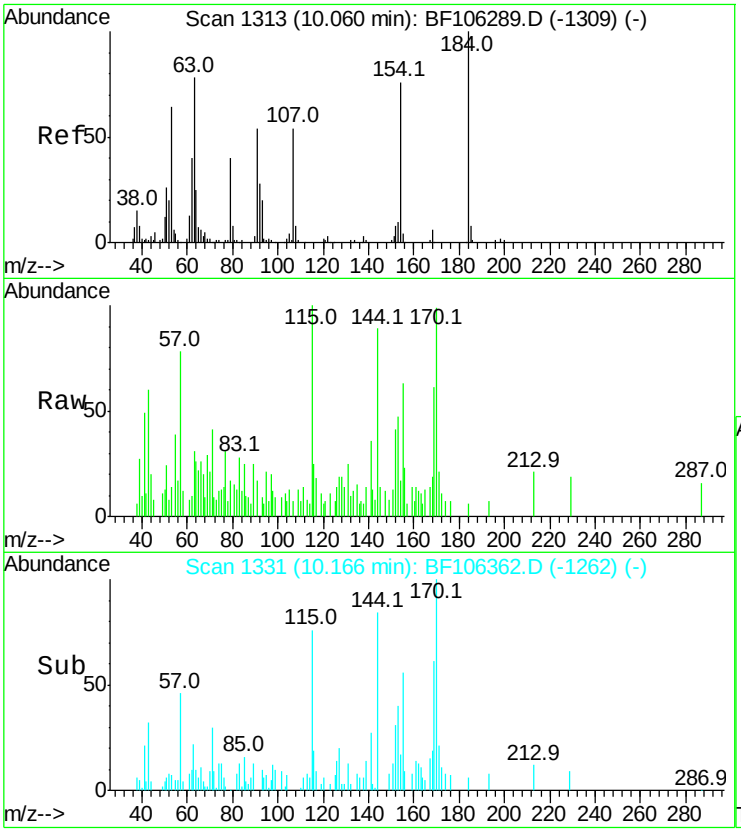


#51
Acenaphthene
Concen: 29.294 ng
RT: 10.05 min Scan# 1311
Delta R.T. 0.00 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:154 Resp: 367721

Ion	Ratio	Lower	Upper
154	100		
153	113.4	91.2	136.8
152	55.6	43.8	65.8



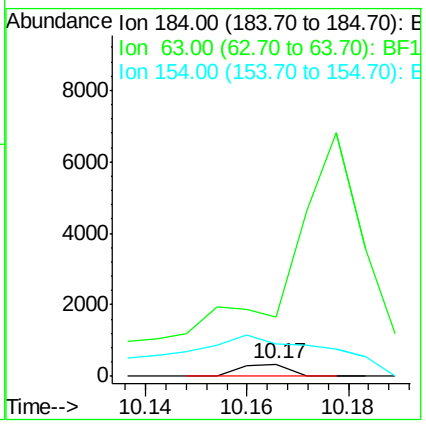


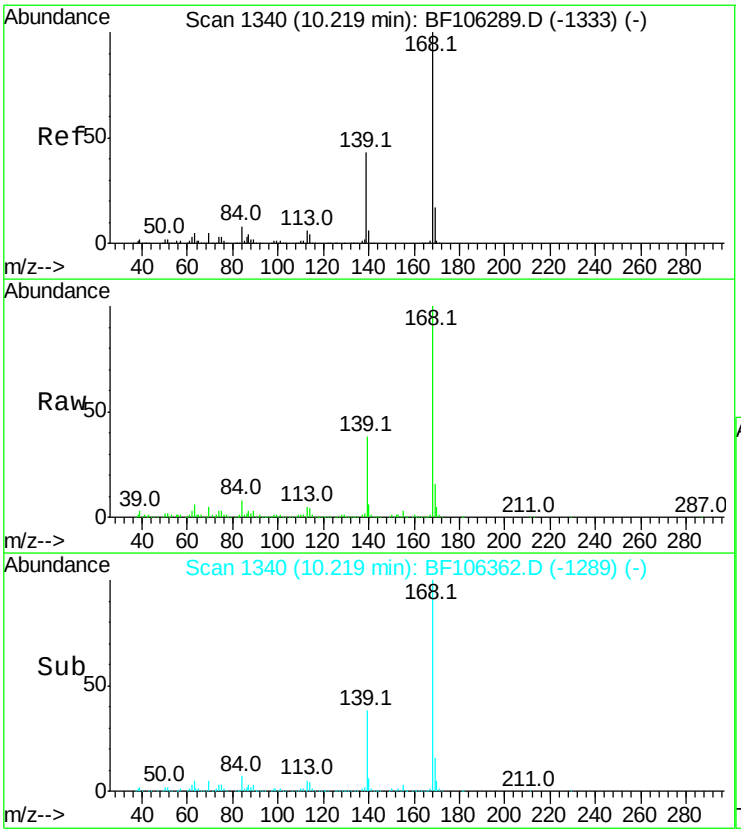
#53
2,4-Dinitrophenol
Concen: 8.763 ng
RT: 10.17 min Scan# 1331
Delta R.T. 0.11 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:184 Resp: 230

Ion	Ratio	Lower	Upper
184	100		
63	481.0	54.2	81.2#
154	265.5	184.0	276.0

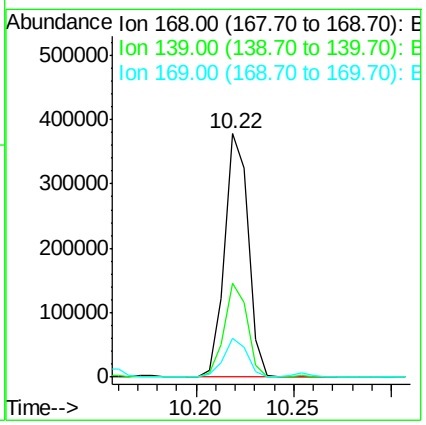


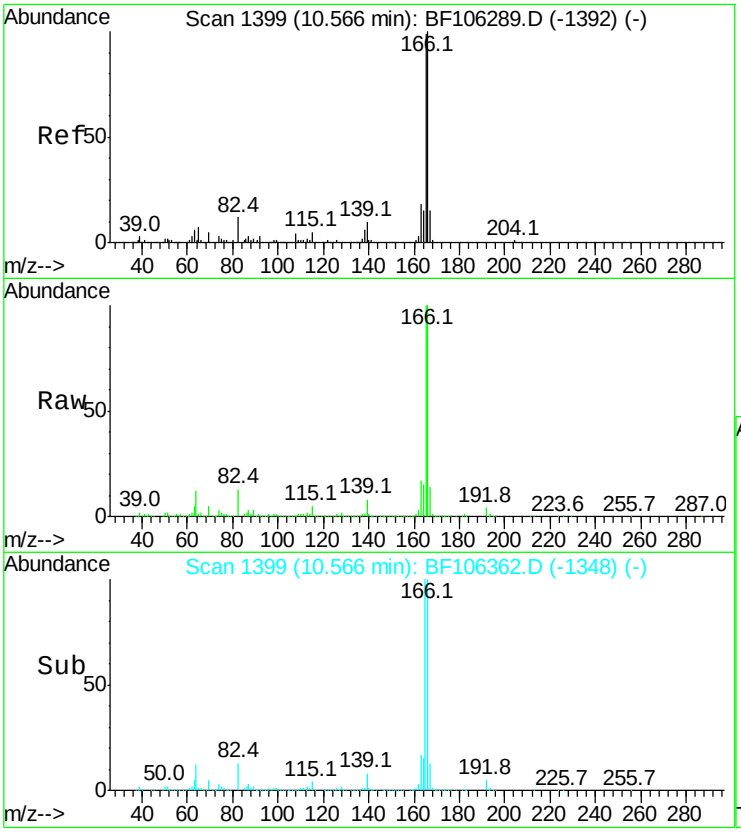


#54
Dibenzofuran
Concen: 18.812 ng
RT: 10.22 min Scan# 1340
Delta R.T. 0.00 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:168 Resp: 317996

Ion	Ratio	Lower	Upper
168	100		
139	38.4	30.1	45.1
169	15.8	10.9	16.3



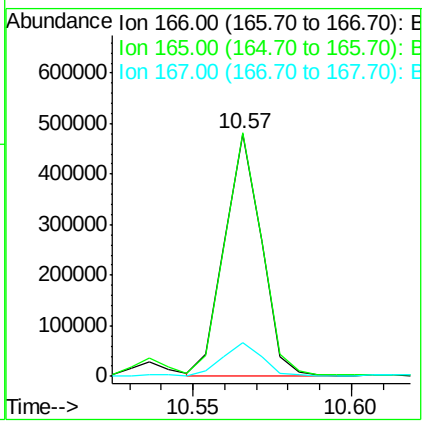


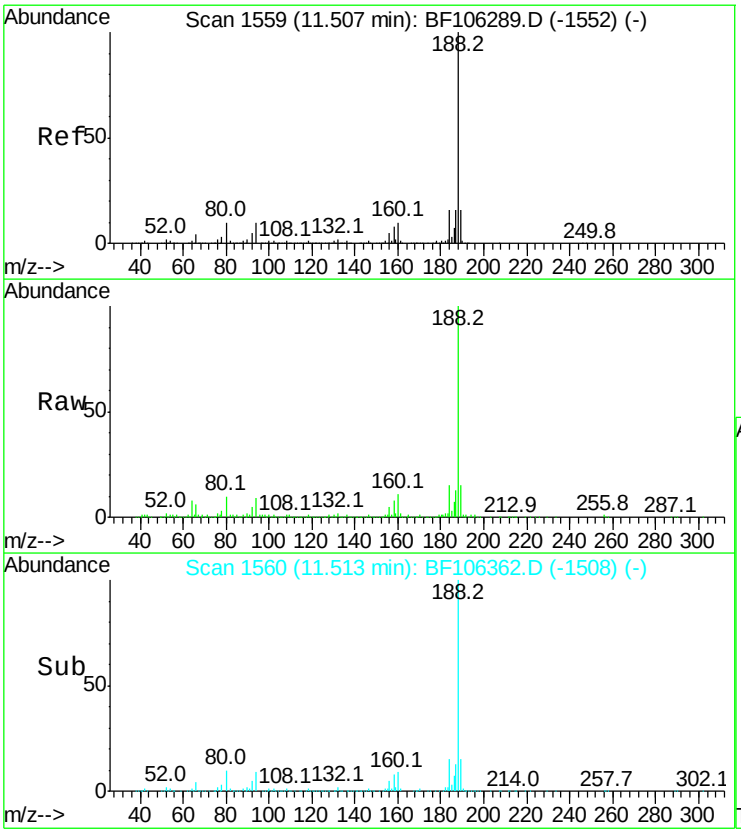
#57
Fluorene
Concen: 28.681 ng
RT: 10.57 min Scan# 1399
Delta R.T. 0.00 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:166 Resp: 384119

Ion	Ratio	Lower	Upper
166	100		
165	100.5	79.8	119.8
167	13.8	10.6	16.0

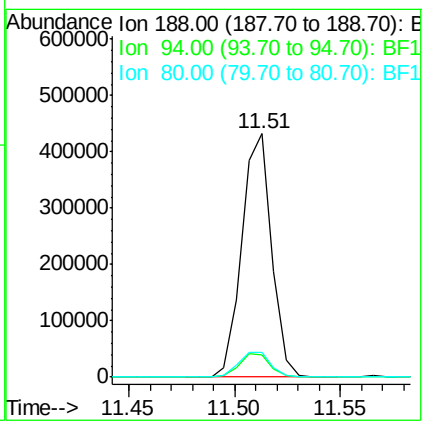


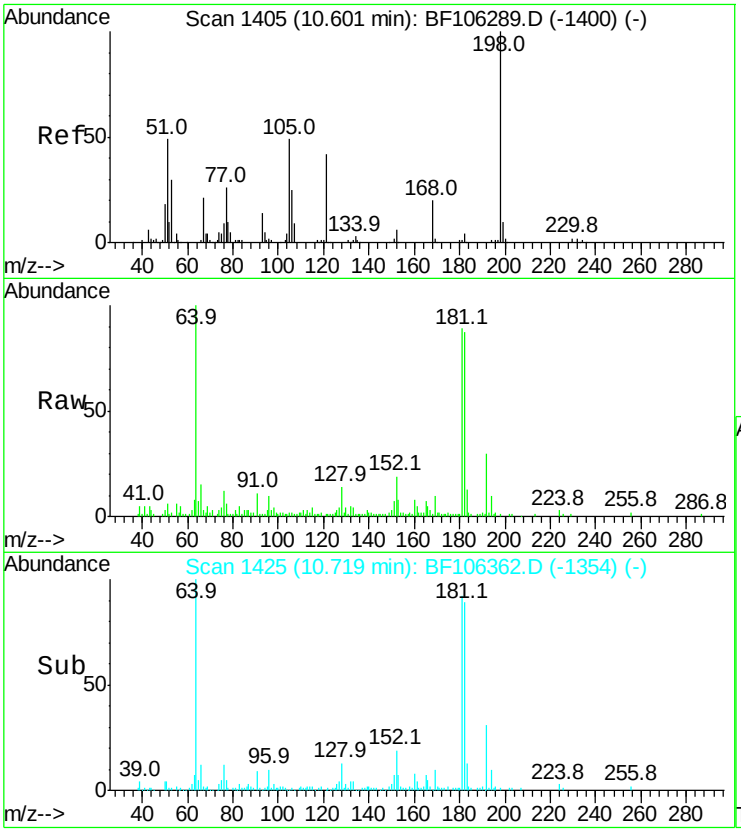


#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1560
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:188 Resp: 420937

Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.5	12.7
80	10.1	9.2	13.8



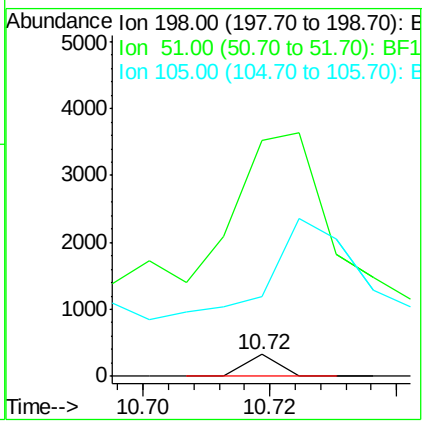


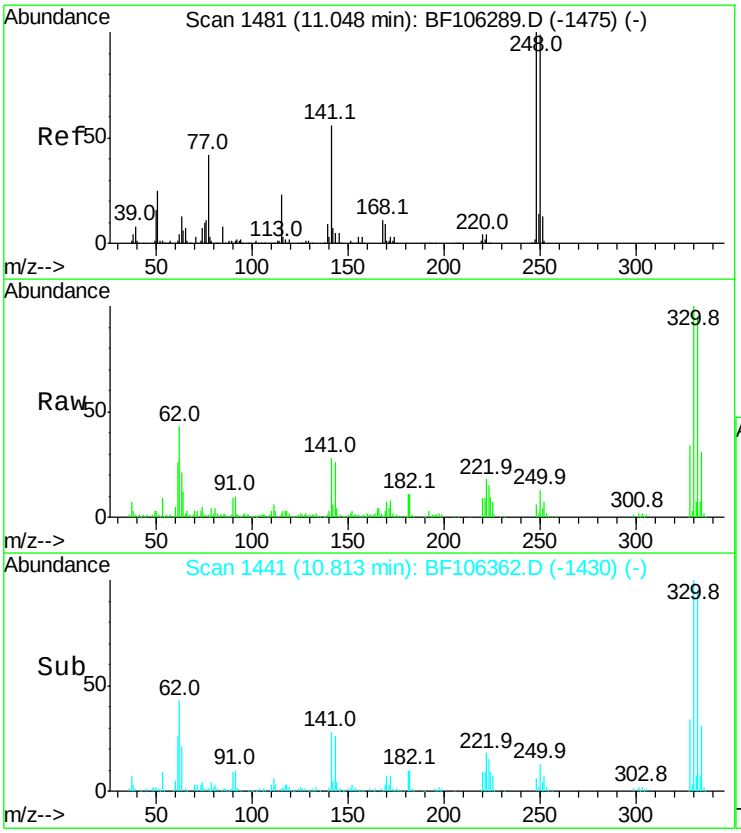
#64
4,6-Dinitro-2-methylphenol
Concen: 6.339 ng
RT: 10.72 min Scan# 1425
Delta R.T. 0.12 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:198 Resp: 116

Ion	Ratio	Lower	Upper
198	100		
51	1070.3	37.7	77.7#
105	362.7	36.3	76.3#

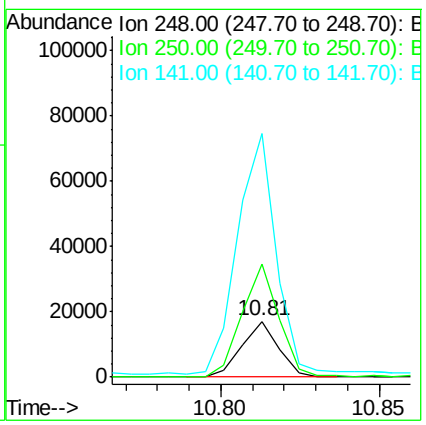


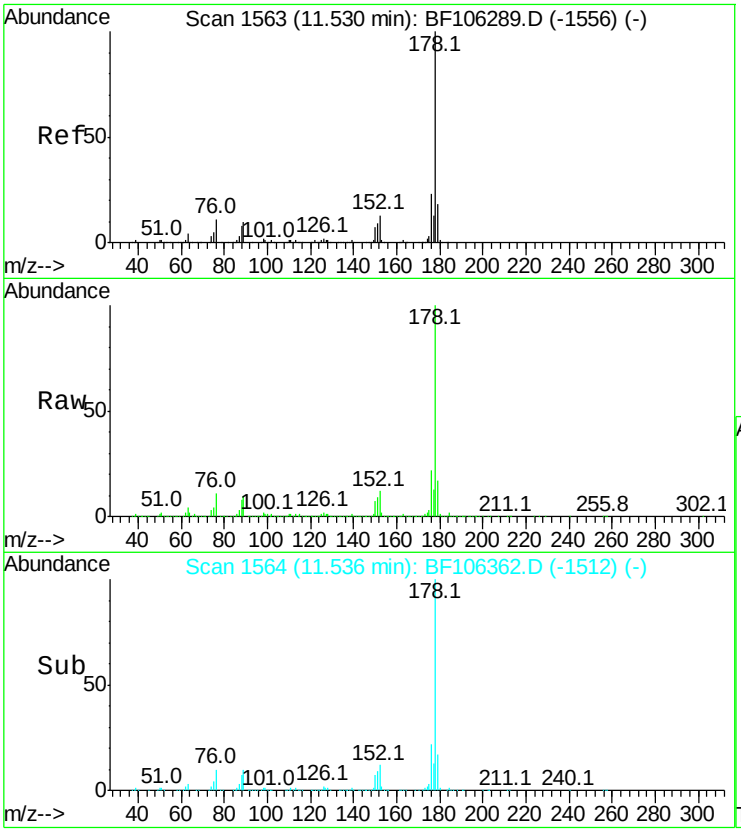


#66
4-Bromophenyl-phenylether
Concen: 2.846 ng
RT: 10.81 min Scan# 1441
Delta R.T. -0.24 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:248 Resp: 13627

Ion	Ratio	Lower	Upper
248	100		
250	202.0	76.9	115.3#
141	434.3	74.4	111.6#



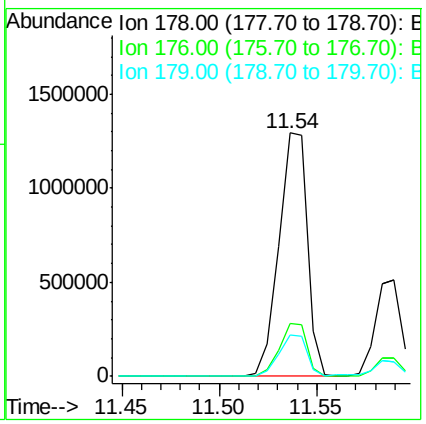


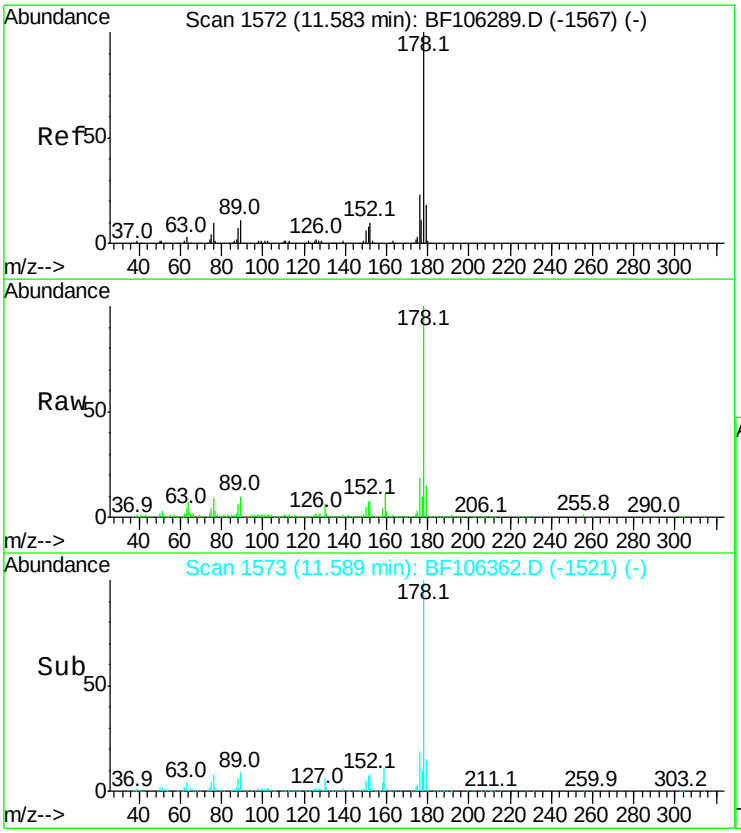
#70
Phenanthrene
Concen: 63.412 ng
RT: 11.54 min Scan# 1564
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:178 Resp: 1307232

Ion	Ratio	Lower	Upper
178	100		
176	22.0	15.8	23.8
179	17.2	13.0	19.6

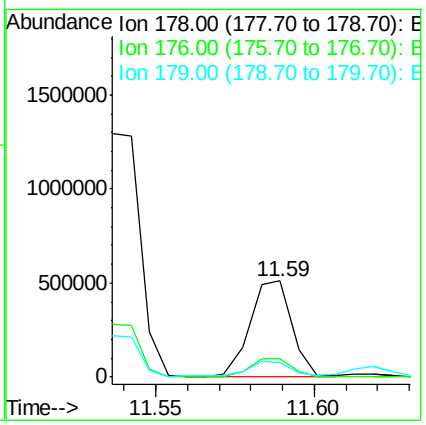


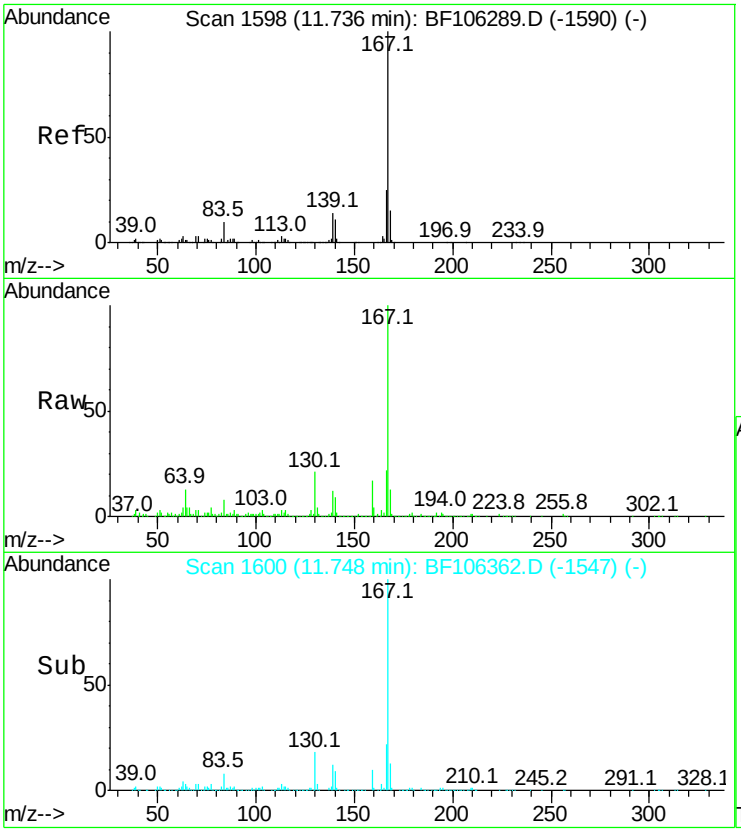


#71
Anthracene
Concen: 22.561 ng
RT: 11.59 min Scan# 1573
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:178 Resp: 465946

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.6	19.0



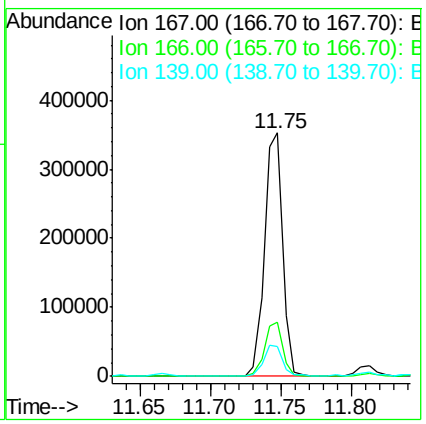


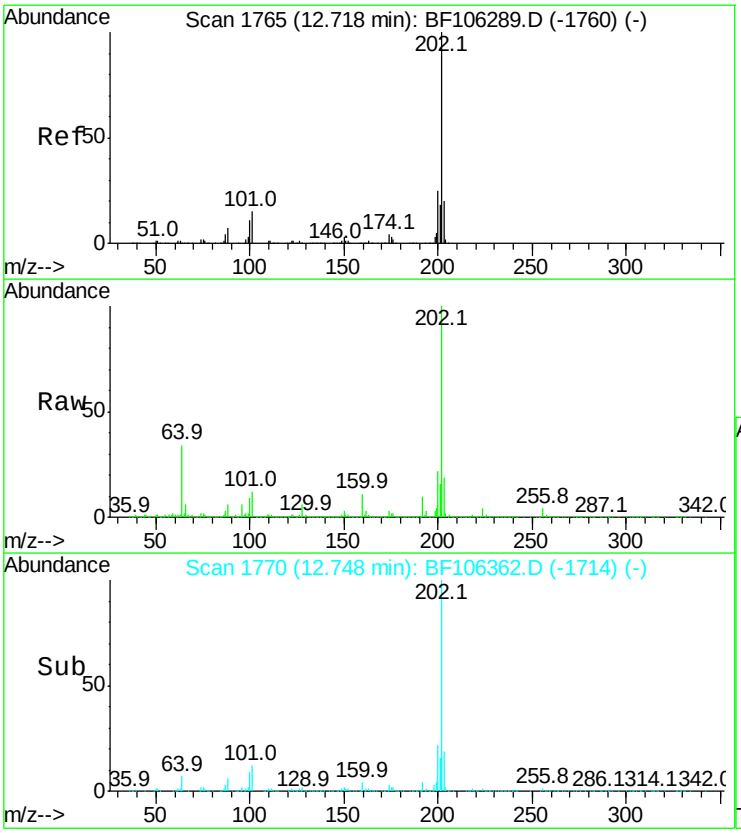
#72
Carbazole
Concen: 16.804 ng
RT: 11.75 min Scan# 1600
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:167 Resp: 320402

Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.6	26.4
139	12.4	10.9	16.3

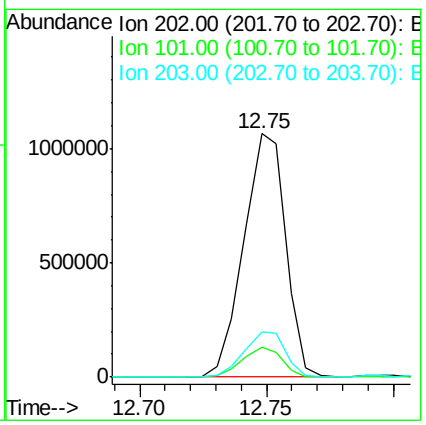


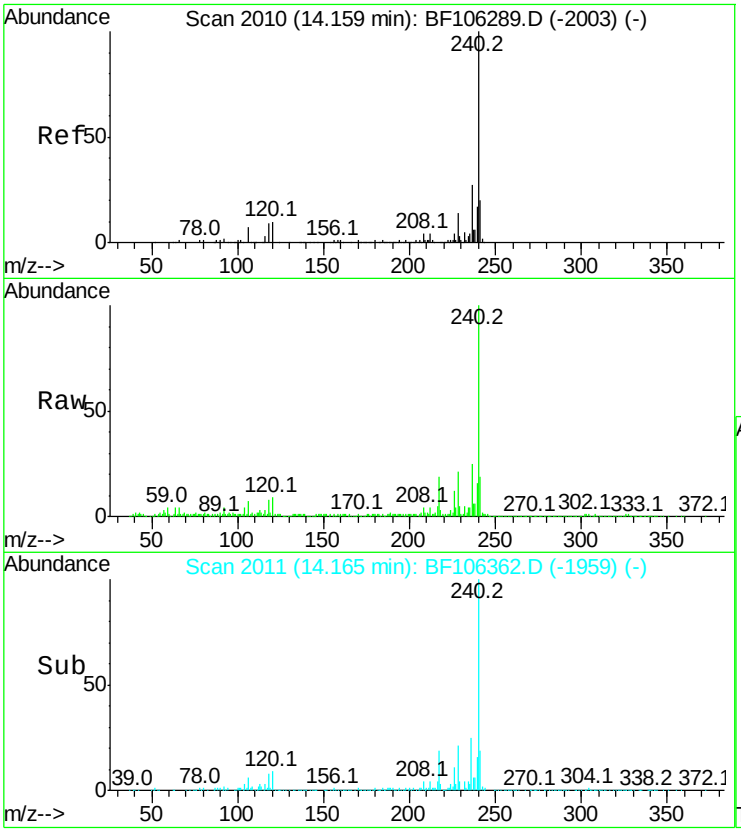


#74
Fluoranthene
Concen: 55.608 ng
RT: 12.75 min Scan# 1770
Delta R.T. 0.03 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:202 Resp: 1222525

Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	34.1
203	18.6	0.0	38.1



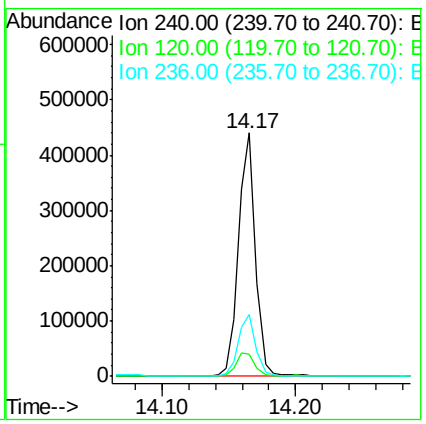


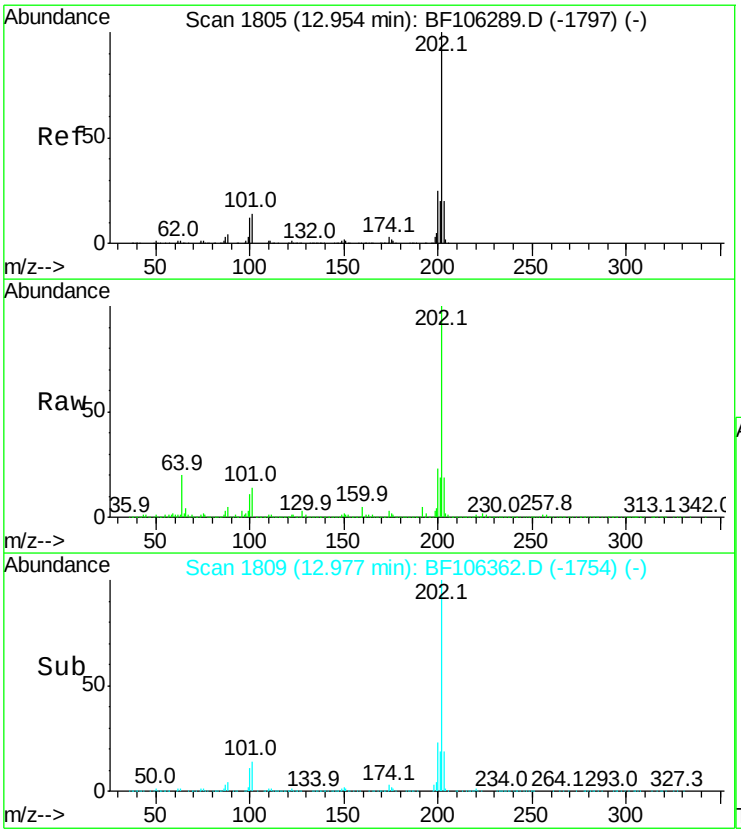
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.17 min Scan# 2011
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:240 Resp: 387207

Ion	Ratio	Lower	Upper
240	100		
120	9.4	9.5	14.3#
236	25.5	20.7	31.1

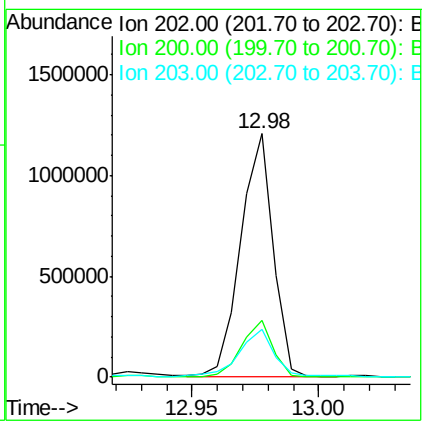


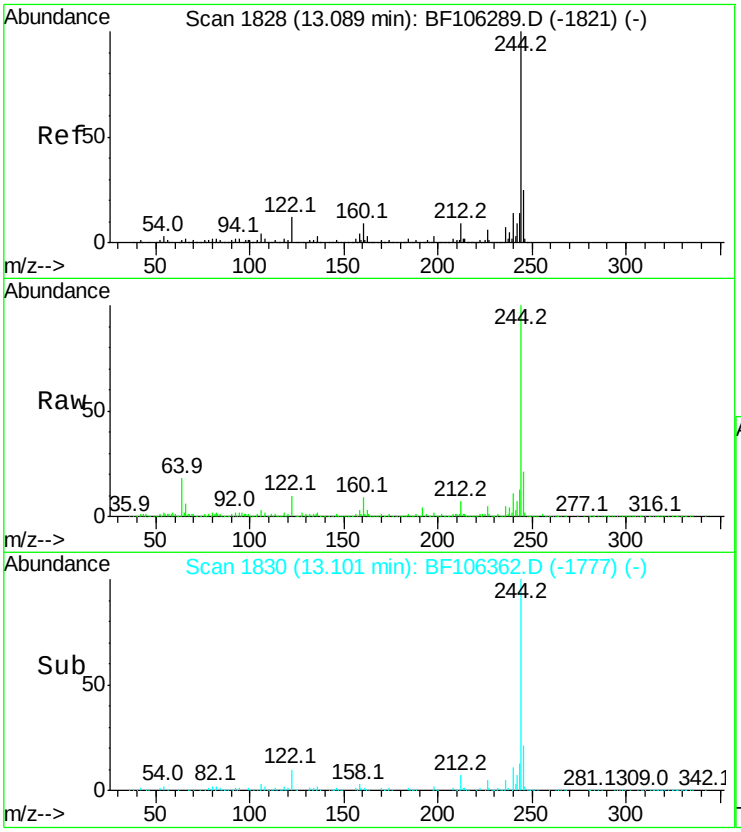


#77
Pyrene
Concen: 43.871 ng
RT: 12.98 min Scan# 1809
Delta R.T. 0.02 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:202 Resp: 1063504

Ion	Ratio	Lower	Upper
202	100		
200	23.4	17.4	26.2
203	19.5	14.3	21.5



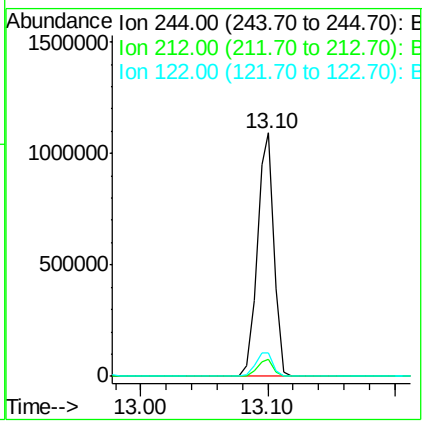


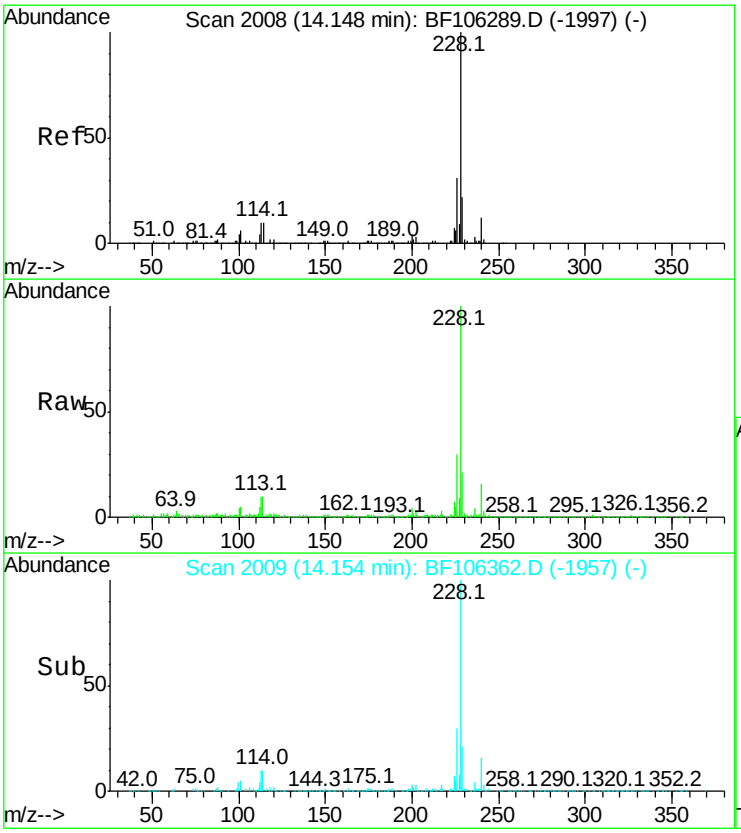
#78
Terphenyl-d14
Concen: 64.629 ng
RT: 13.10 min Scan# 1830
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:244 Resp: 1007522

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	9.8	11.0	16.4#

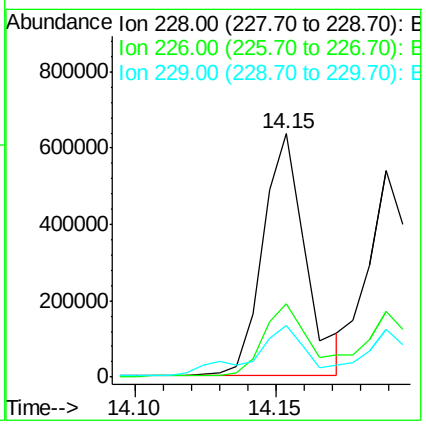


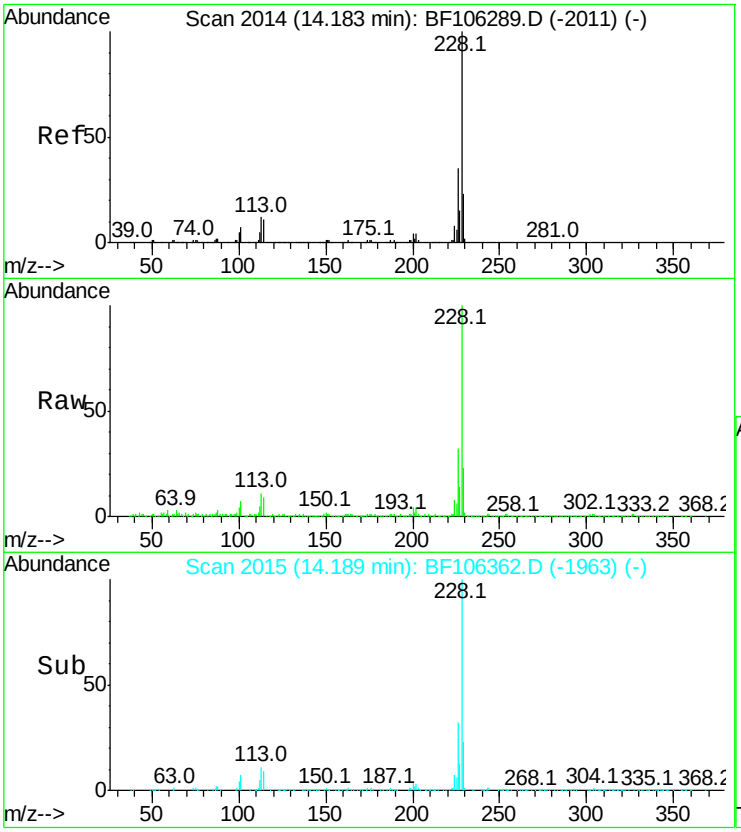


#80
Benzo(a)anthracene
Concen: 28.701 ng
RT: 14.15 min Scan# 2009
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:228 Resp: 661348

Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.6	33.8
229	21.1	15.8	23.6



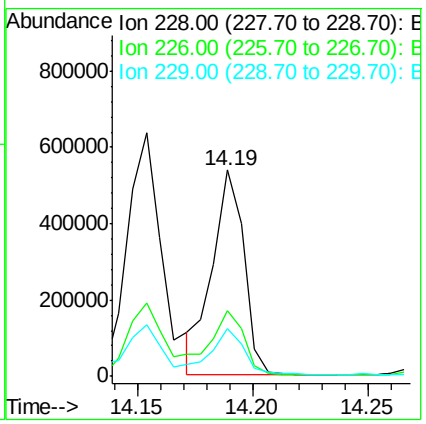


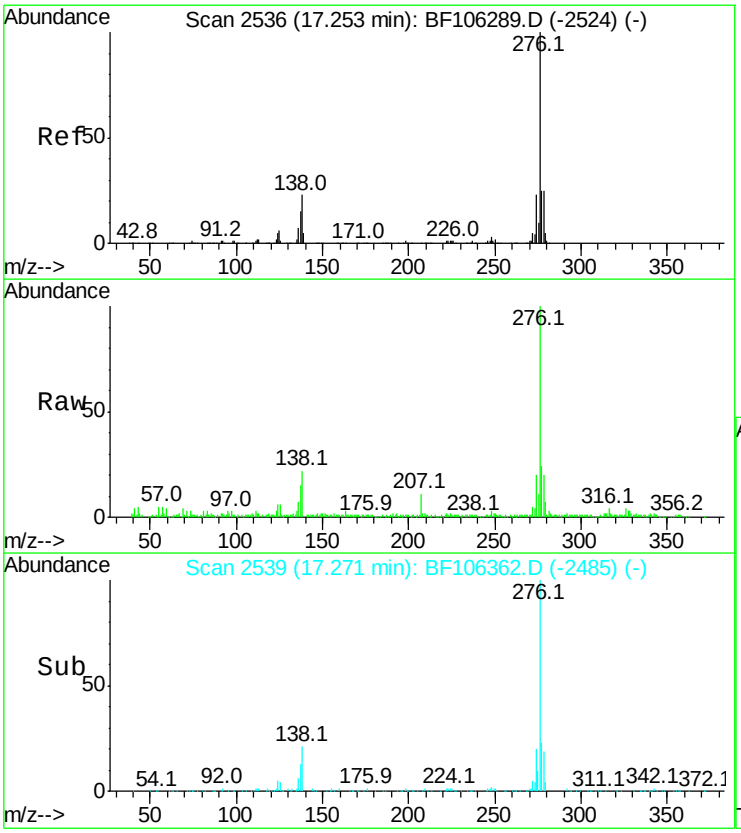
#82
Chrysene
Concen: 24.294 ng
RT: 14.19 min Scan# 2015
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:228 Resp: 511084

Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.0	37.6
229	23.3	16.2	24.4

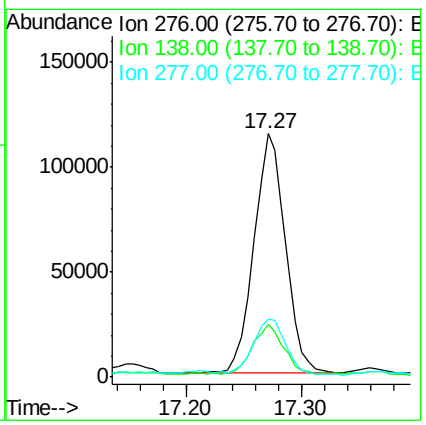


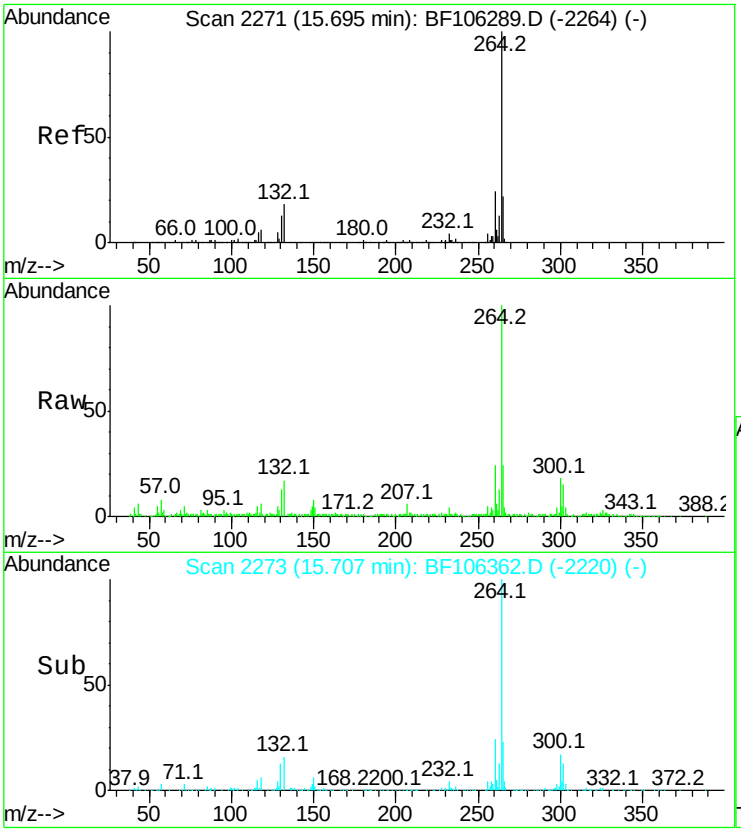


#85
Indeno(1,2,3-cd)pyrene
Concen: 12.837 ng
RT: 17.27 min Scan# 2539
Delta R.T. 0.02 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:276 Resp: 215535

Ion	Ratio	Lower	Upper
276	100		
138	20.6	25.0	37.6#
277	24.1	20.1	30.1



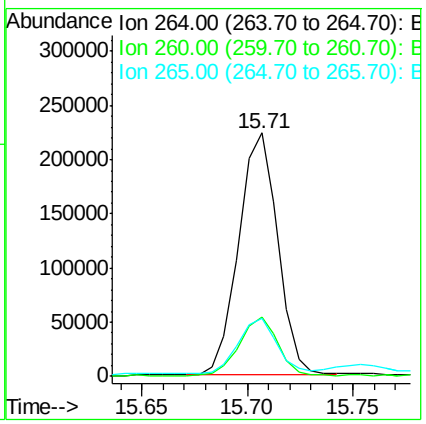


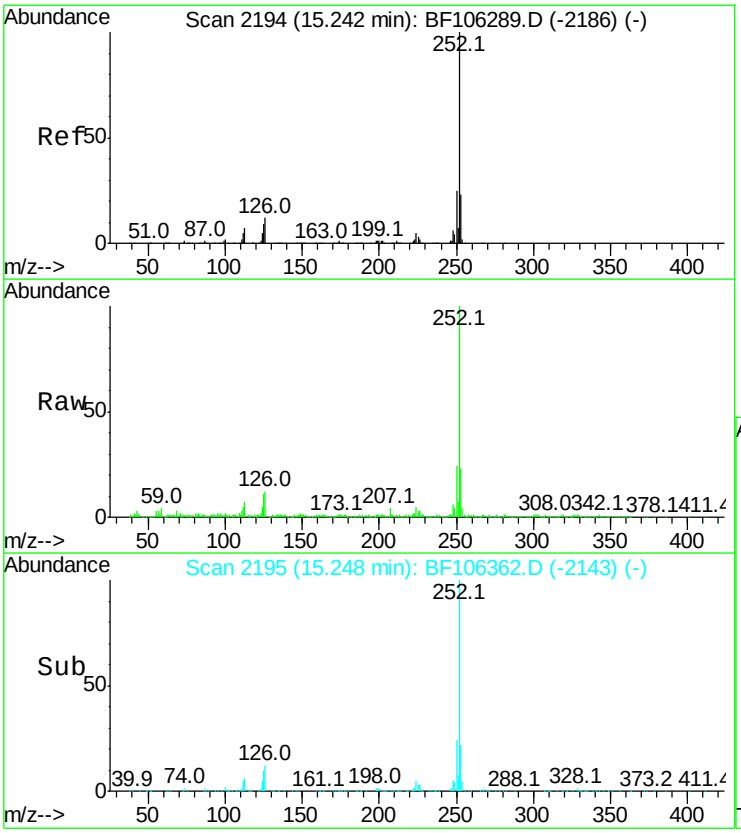
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.71 min Scan# 2273
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:264 Resp: 287294

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.8	17.5	26.3

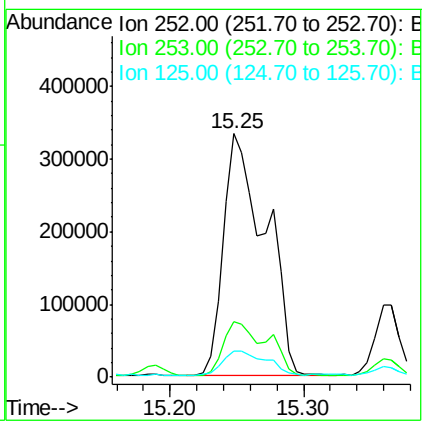


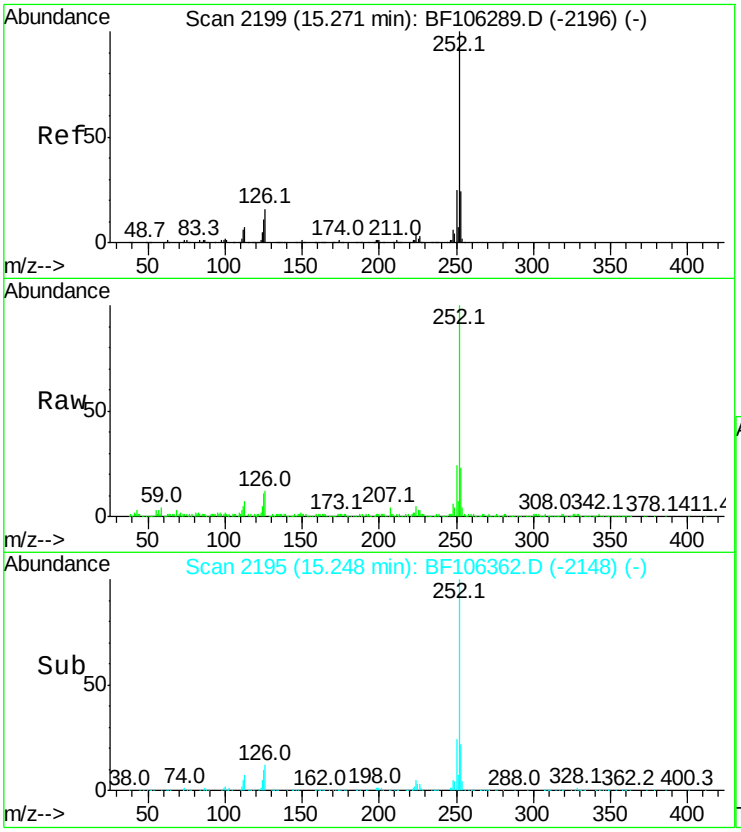


#87
Benzo(b)fluoranthene
Concen: 42.286 ng
RT: 15.25 min Scan# 2195
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:252 Resp: 734359

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	10.9	9.0	13.6



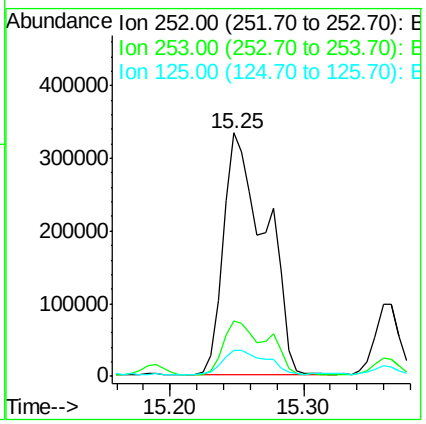


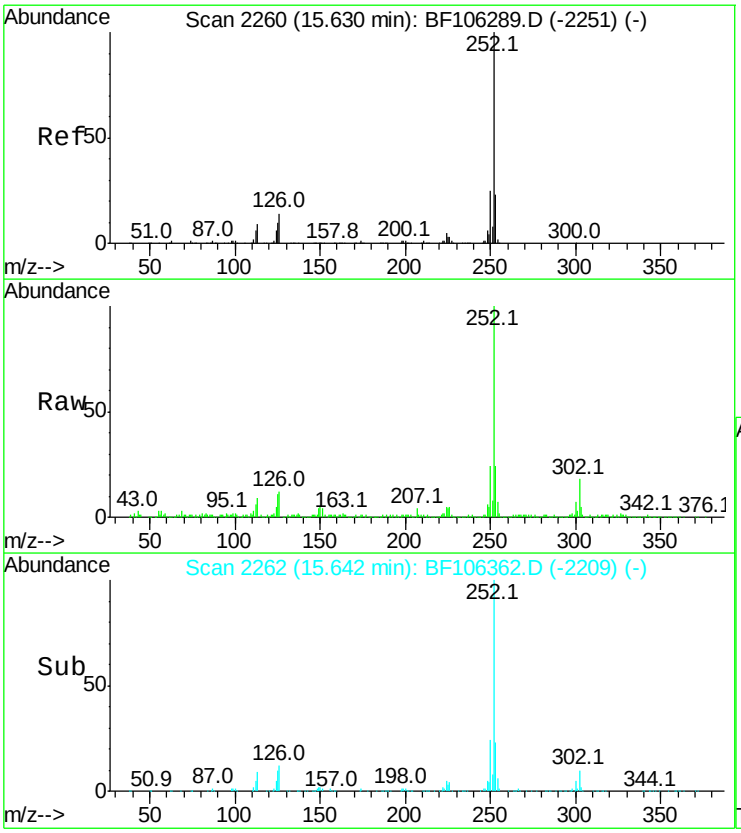
#88
Benzo(k)fluoranthene
Concen: 42.697 ng
RT: 15.25 min Scan# 2195
Delta R.T. -0.02 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:252 Resp: 734359

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	10.9	10.2	15.2

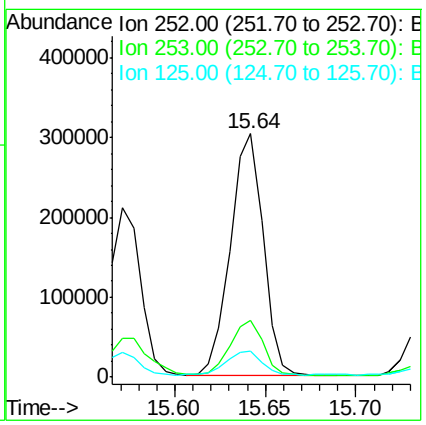


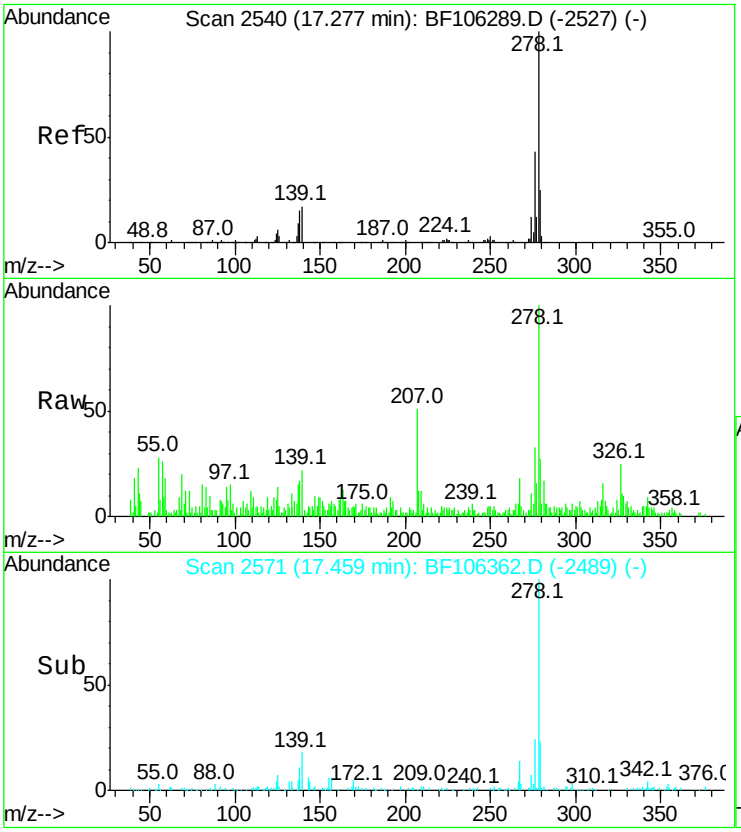


#89
Benzo(a)pyrene
Concen: 24.572 ng
RT: 15.64 min Scan# 2262
Delta R.T. 0.01 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:252 Resp: 383835

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	10.9	9.8	14.6



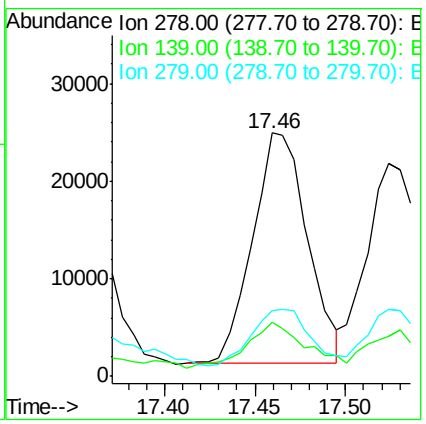


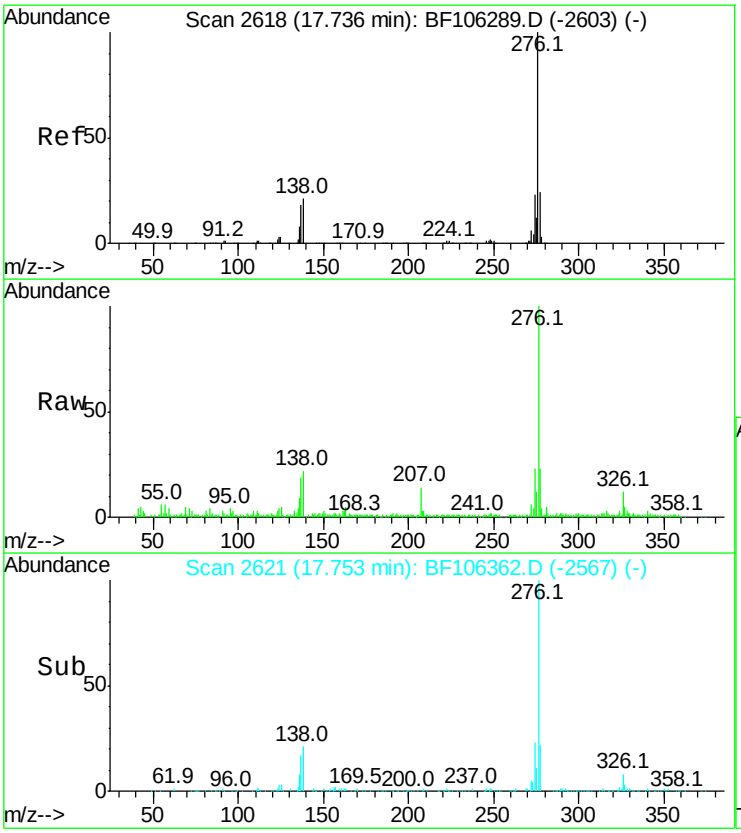
#90
Dibenzo(a,h)anthracene
Concen: 3.813 ng
RT: 17.46 min Scan# 2571
Delta R.T. 0.18 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:278 Resp: 49660

Ion	Ratio	Lower	Upper
278	100		
139	22.1	15.9	23.9
279	26.8	19.0	28.4





#91
Benzo(g,h,i)perylene
Concen: 15.359 ng
RT: 17.75 min Scan# 2621
Delta R.T. 0.02 min
Lab File: BF106362.D
Acq: 12 Jun 2018 23:11

Tgt Ion:276 Resp: 194386

Ion	Ratio	Lower	Upper
276	100		
277	23.0	17.9	26.9
138	22.3	21.8	32.8