Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070720\
Data File : BN011108.D
Acq On : 07 Jul 2020 08:49
Operator : CG/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

Quant Time: Jul 07 10:48:22 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN063020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 07 10:47:09 2020
Response via : Initial Calibration

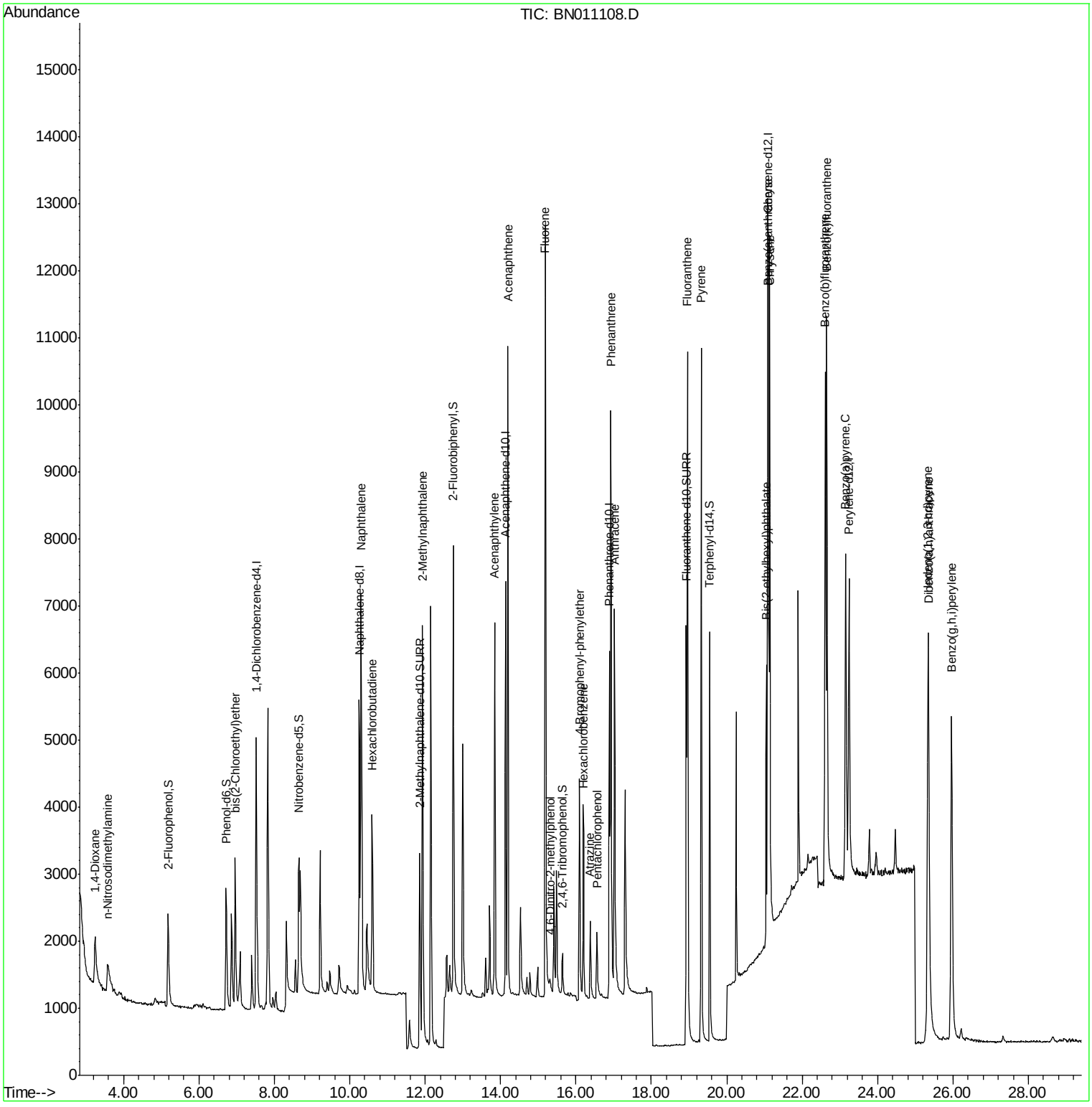
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	2363	0.40	ng		0.00
7) Naphthalene-d8	10.25	136	7035	0.40	ng		0.00
13) Acenaphthene-d10	14.13	164	3586	0.40	ng		0.00
19) Phenanthrene-d10	16.89	188	7902	0.40	ng		0.00
29) Chrysene-d12	21.10	240	6835	0.40	ng		0.00
36) Perylene-d12	23.24	264	6341	0.40	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.18	112	2119	0.36	ng		0.00
5) Phenol-d6	6.72	99	2532	0.37	ng		0.00
8) Nitrobenzene-d5	8.66	82	2531	0.42	ng		0.00
11) 2-Methylnaphthalene-d10	11.85	152	4981	0.41	ng		0.00
14) 2,4,6-Tribromophenol	15.64	330	634	0.42	ng		0.00
15) 2-Fluorobiphenyl	12.75	172	7099	0.42	ng		0.00
27) Fluoranthene-d10	18.93	212	8999	0.38	ng		0.00
31) Terphenyl-d14	19.55	244	7602	0.43	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.25	88	1083	0.325	ng		91
3) n-Nitrosodimethylamine	3.58	42	600	0.356	ng	#	91
6) bis(2-Chloroethyl)ether	6.96	93	2471	0.402	ng		94
9) Naphthalene	10.30	128	8228	0.392	ng		99
10) Hexachlorobutadiene	10.60	225	2153	0.405	ng	#	99
12) 2-Methylnaphthalene	11.93	142	5545	0.395	ng		99
16) Acenaphthylene	13.84	152	7201	0.401	ng		99
17) Acenaphthene	14.20	154	4918	0.404	ng		98
18) Fluorene	15.19	166	6237	0.410	ng		99
20) 4,6-Dinitro-2-methylphenol	15.31	198	296	0.387	ng	#	82
21) 4-Bromophenyl-phenylether	16.10	248	2019	0.384	ng	#	83
22) Hexachlorobenzene	16.20	284	2350	0.380	ng		100
23) Atrazine	16.38	200	1341	0.361	ng		97
24) Pentachlorophenol	16.56	266	788	0.473	ng		93
25) Phenanthrene	16.92	178	10058	0.393	ng		99
26) Anthracene	17.02	178	7785	0.368	ng		99
28) Fluoranthene	18.96	202	10802	0.375	ng		99
30) Pyrene	19.32	202	10789	0.423	ng		99
32) Benzo(a)anthracene	21.09	228	8773	0.384	ng		98
33) Chrysene	21.13	228	11175	0.426	ng		98
34) Bis(2-ethylhexyl)phthalate	21.05	149	3831	0.415	ng		100
35) Indeno(1,2,3-cd)pyrene	25.34	276	10021	0.366	ng		96
37) Benzo(b)fluoranthene	22.61	252	10139	0.399	ng		96
38) Benzo(k)fluoranthene	22.66	252	11409	0.419	ng		98
39) Benzo(a)pyrene	23.15	252	8896	0.406	ng		97
40) Dibenzo(a,h)anthracene	25.36	278	7105	0.317	ng		99
41) Benzo(g,h,i)perylene	25.96	276	10652	0.431	ng		97

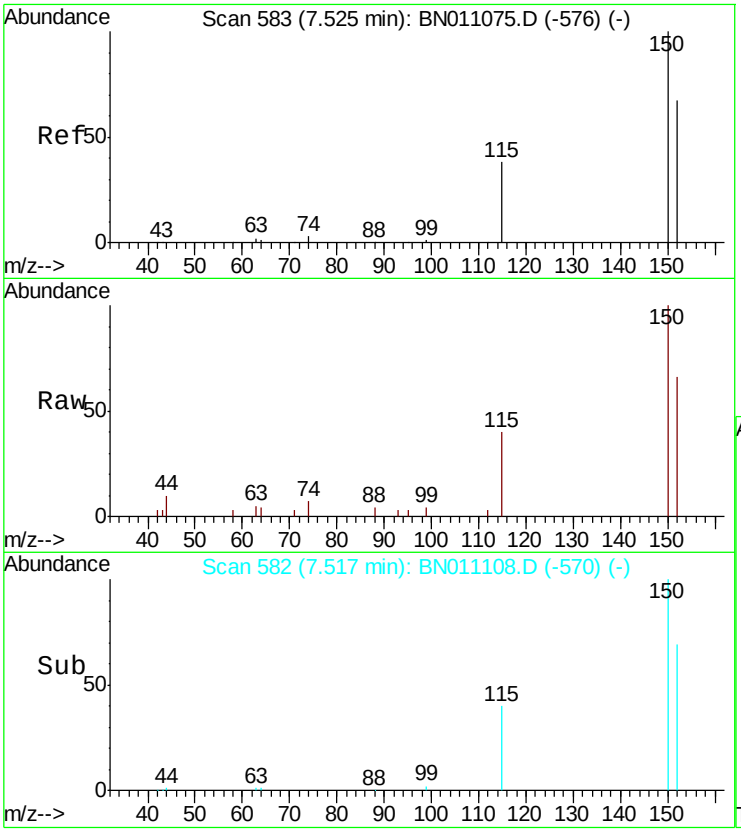
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070720\
Data File : BN011108.D
Acq On : 07 Jul 2020 08:49
Operator : CG/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jul 07 10:48:22 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN063020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 07 10:47:09 2020
Response via : Initial Calibration



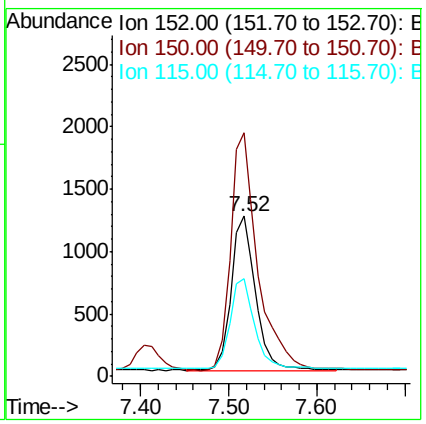


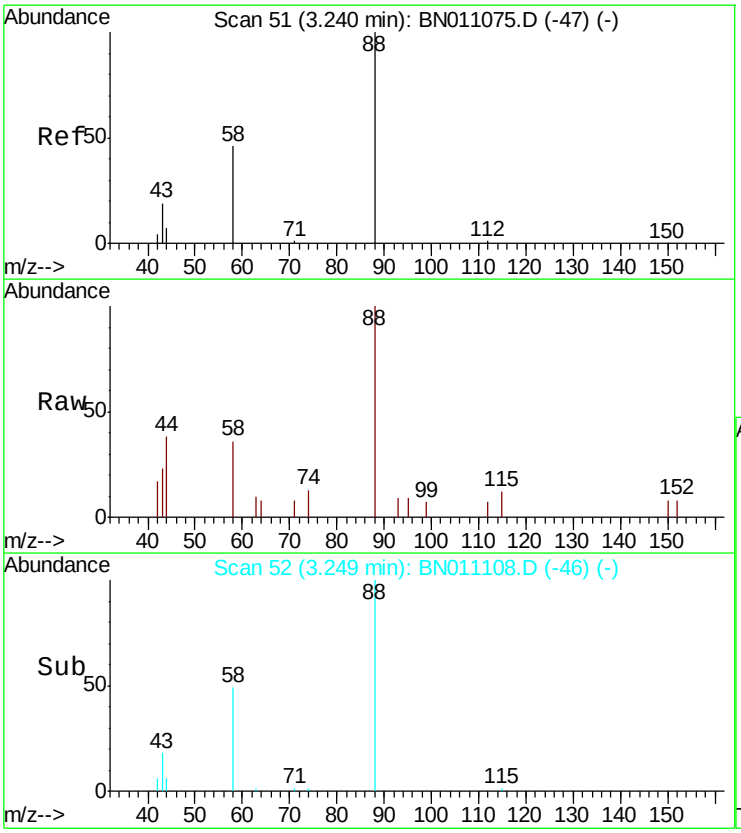
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.52 min Scan# 582
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2363

Ion	Ratio	Lower	Upper
152	100		
150	152.3	117.4	176.0
115	60.8	47.9	71.9

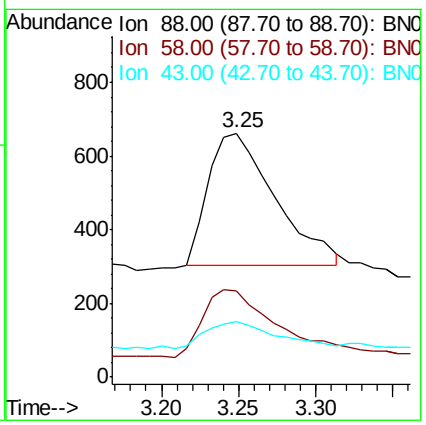


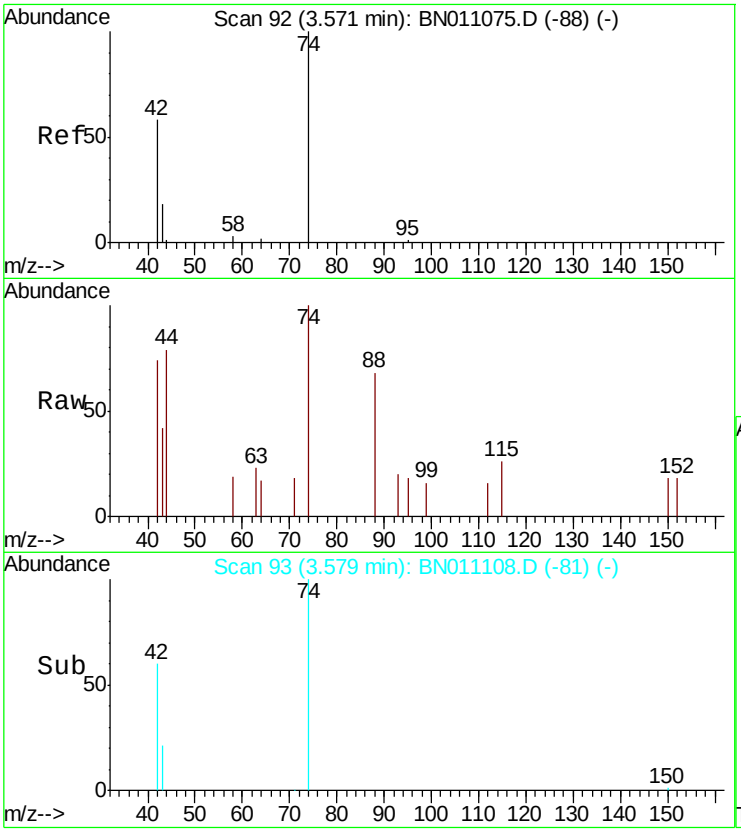


#2
1,4-Dioxane
Concen: 0.325 ng
RT: 3.25 min Scan# 52
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion: 88 Resp: 1083

Ion	Ratio	Lower	Upper
88	100		
58	40.7	38.6	57.8
43	17.8	15.4	23.0



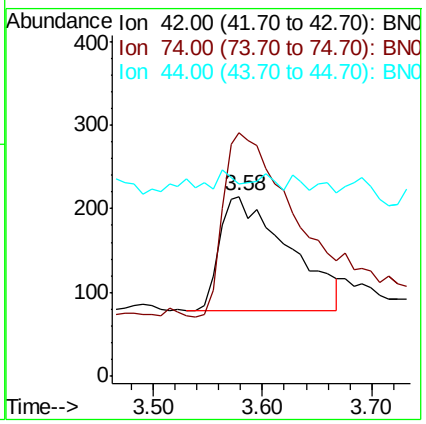


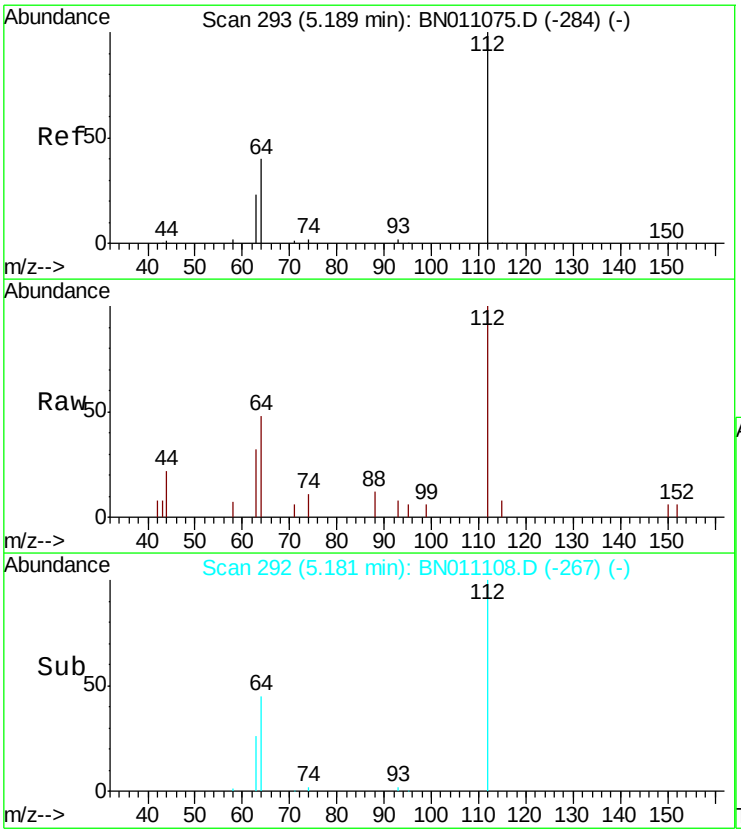
#3
n-Nitrosodimethylamine
Concen: 0.356 ng
RT: 3.58 min Scan# 93
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 600

Ion	Ratio	Lower	Upper
42	100		
74	165.0	142.5	213.7
44	4.0	0.0	0.0#

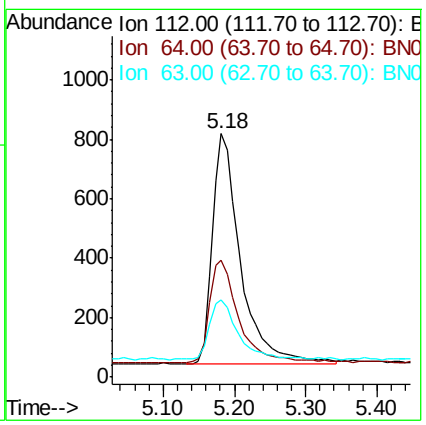


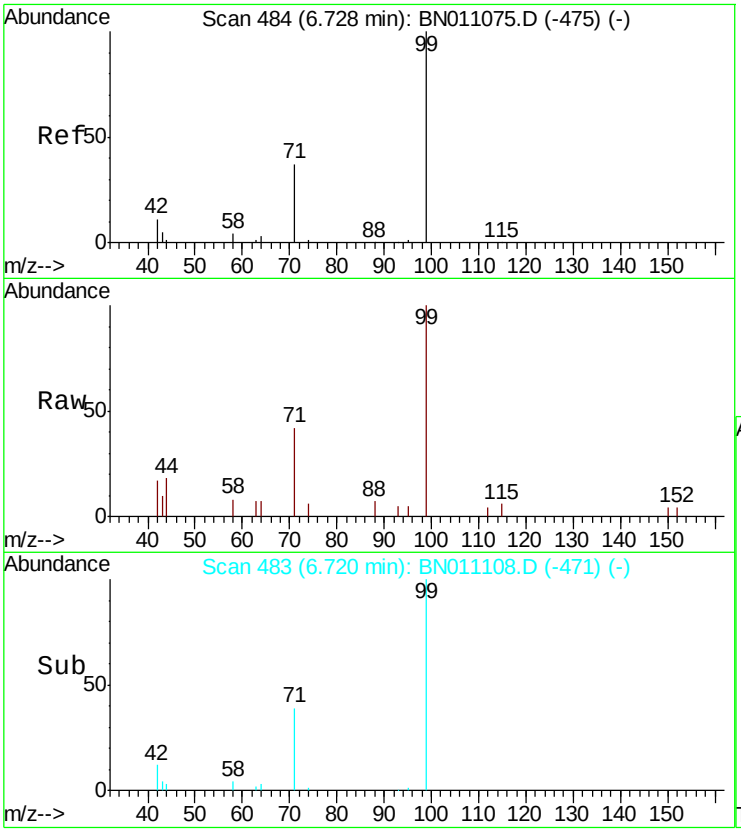


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.18 min Scan# 292
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:112 Resp: 2119

Ion	Ratio	Lower	Upper
112	100		
64	46.2	36.5	54.7
63	26.7	20.6	30.8



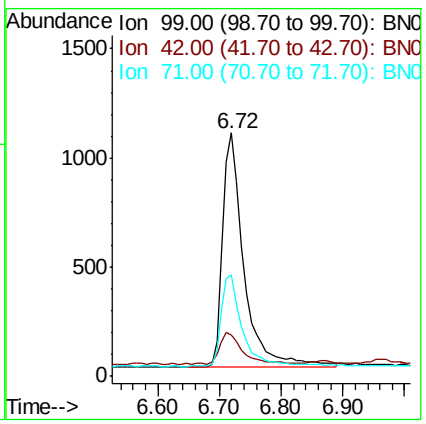


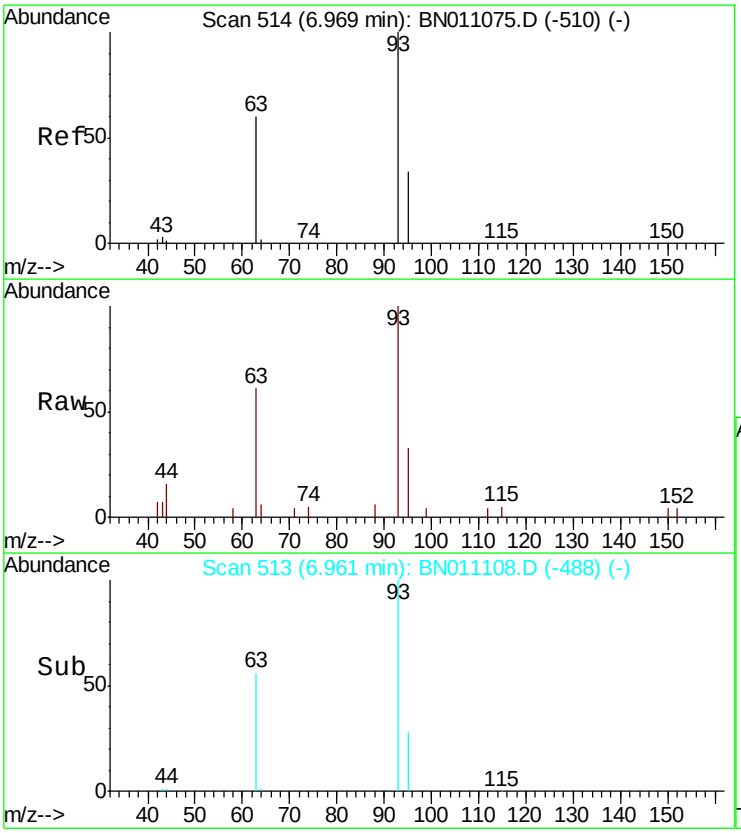
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.72 min Scan# 483
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2532

Ion	Ratio	Lower	Upper
99	100		
42	13.8	9.8	14.8
71	39.5	30.7	46.1

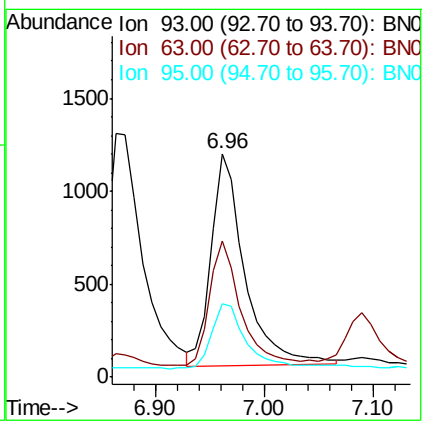


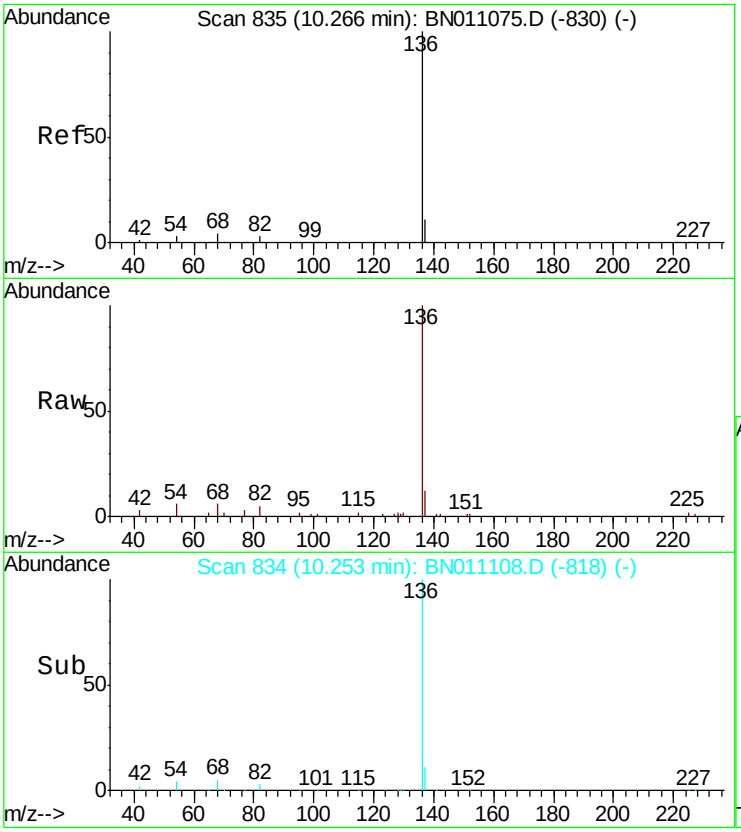


#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 6.96 min Scan# 513
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion: 93 Resp: 2471

Ion	Ratio	Lower	Upper
93	100		
63	53.8	47.4	71.2
95	31.4	26.4	39.6



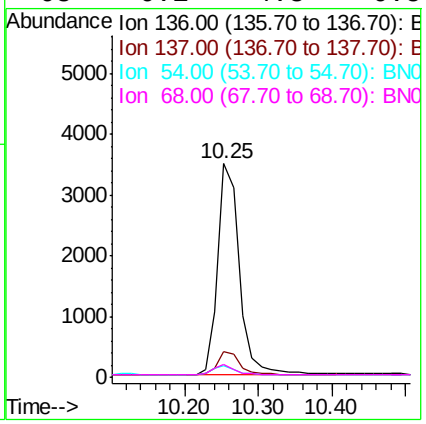


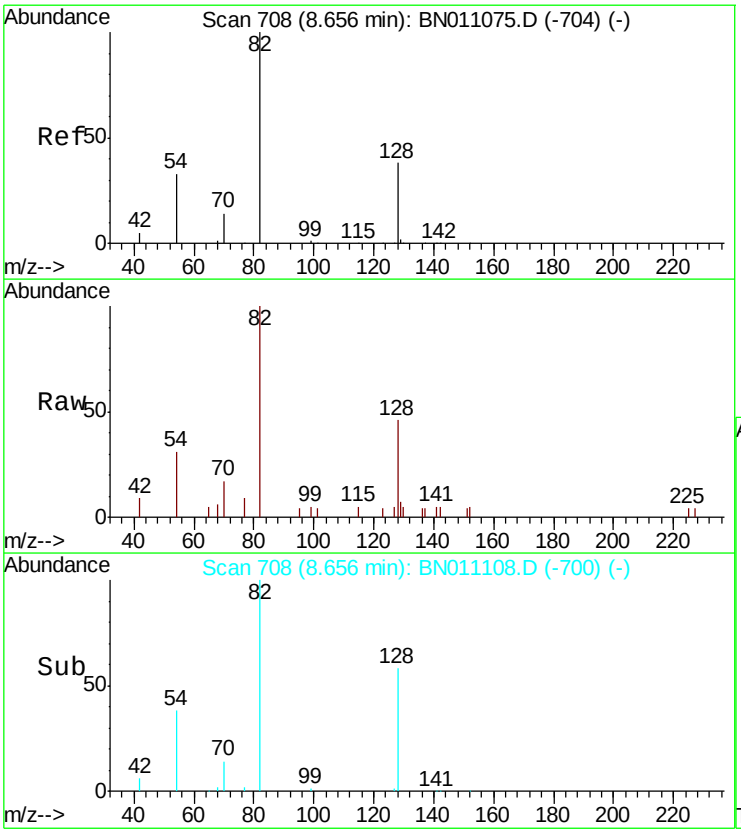
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.25 min Scan# 834
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 7035

Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.6	14.4
54	5.5	3.8	5.6
68	6.1	4.3	6.5

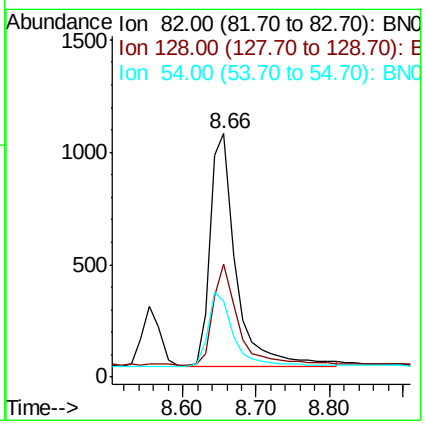


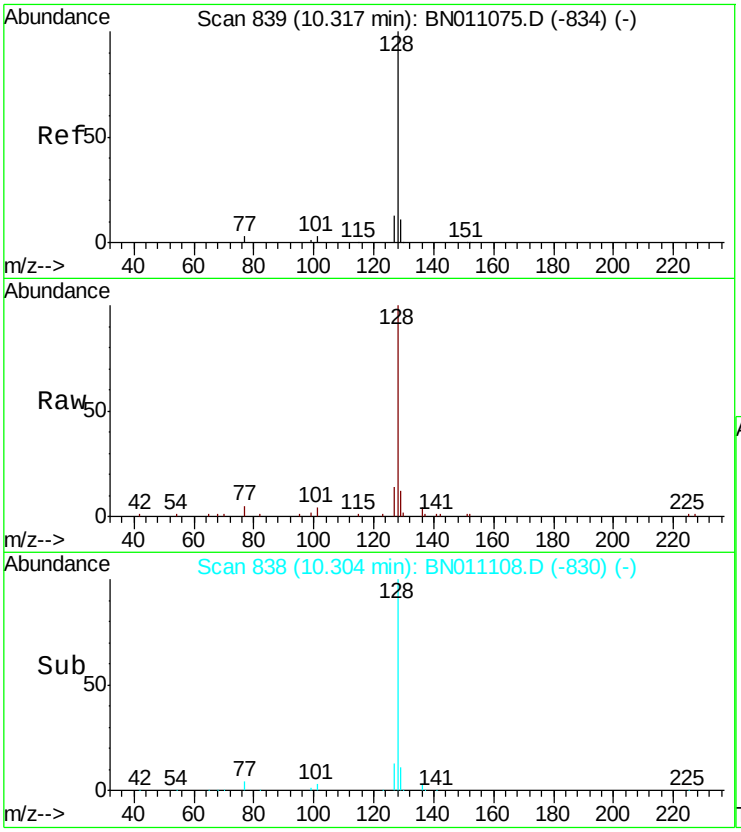


#8
Nitrobenzene-d5
Concen: 0.423 ng
RT: 8.66 min Scan# 708
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion: 82 Resp: 2531

Ion	Ratio	Lower	Upper
82	100		
128	46.3	34.2	51.2
54	31.3	29.4	44.0



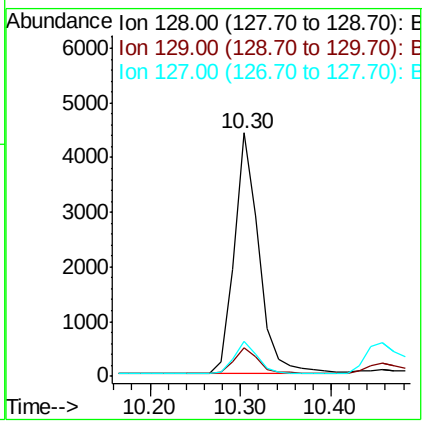


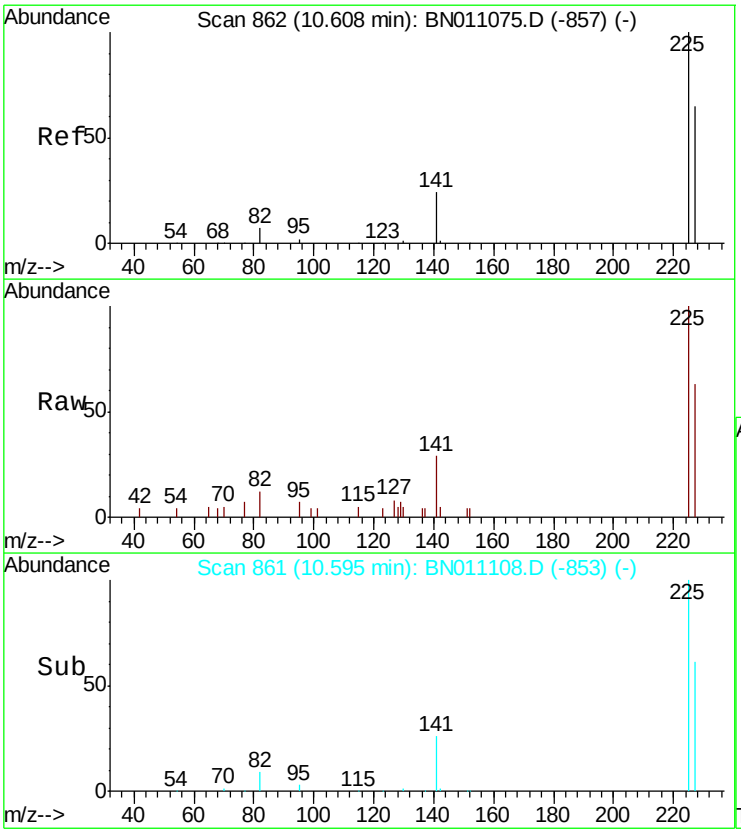
#9
Naphthalene
Concen: 0.392 ng
RT: 10.30 min Scan# 838
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 8228

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.8
127	14.2	11.3	16.9

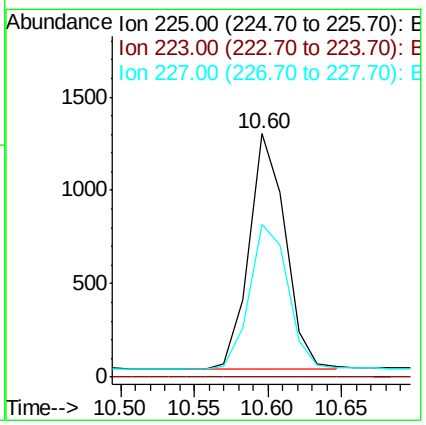


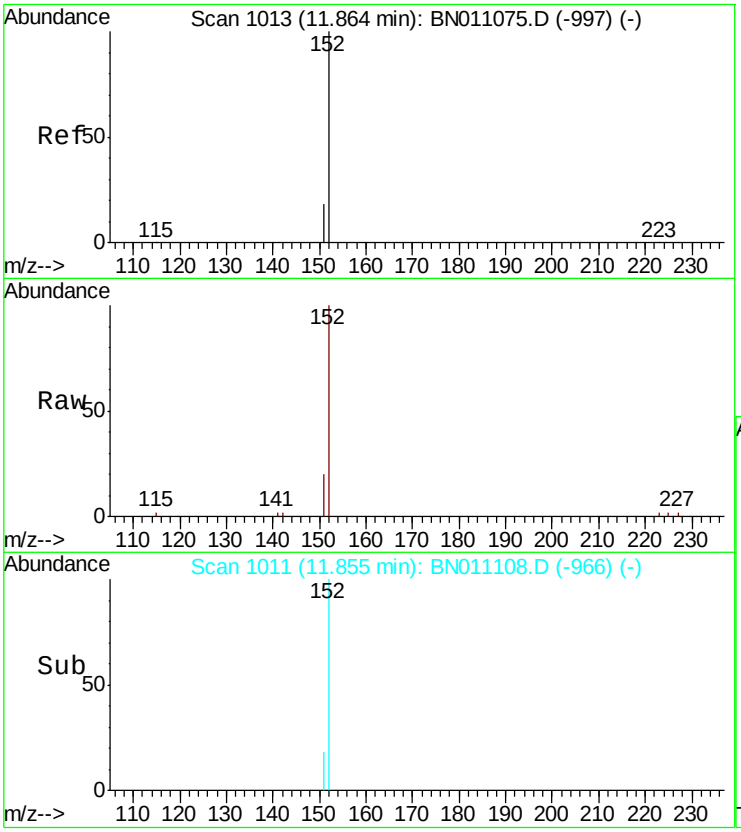


#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.60 min Scan# 861
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:225 Resp: 2153

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.4	77.2



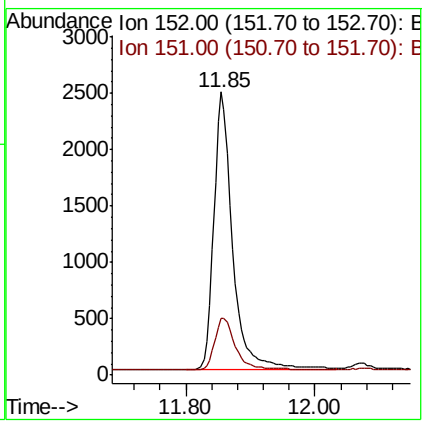


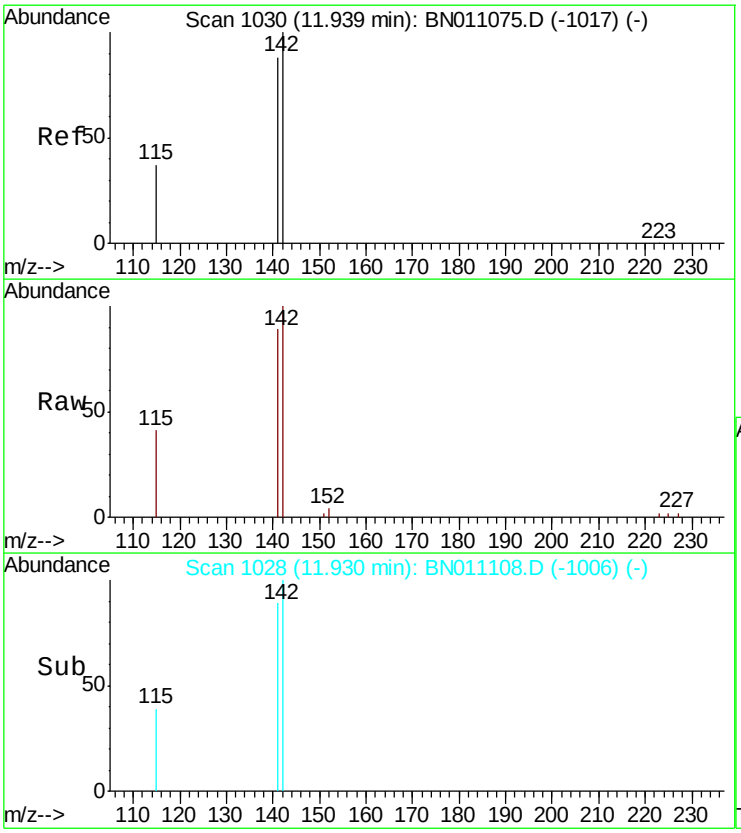
#11
2-Methylnaphthalene-d10
Concen: 0.409 ng
RT: 11.85 min Scan# 1011
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4981

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	24.8

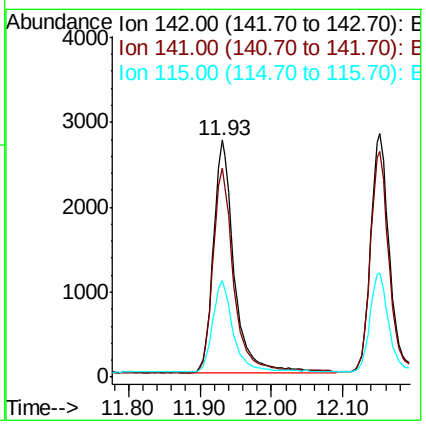


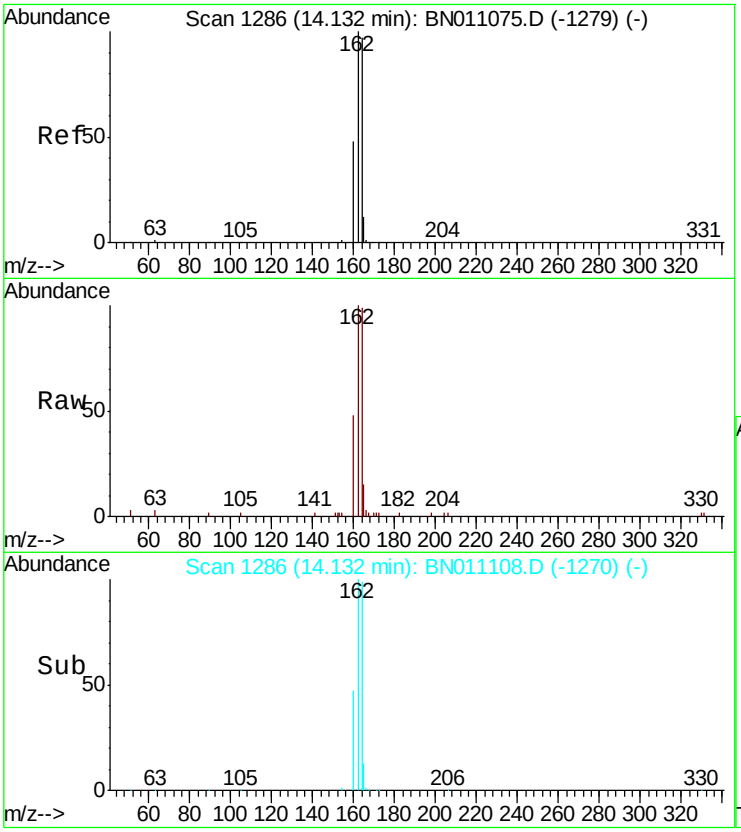


#12
2-Methylnaphthalene
Concen: 0.395 ng
RT: 11.93 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:142 Resp: 5545

Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.3	105.5
115	40.8	31.2	46.8



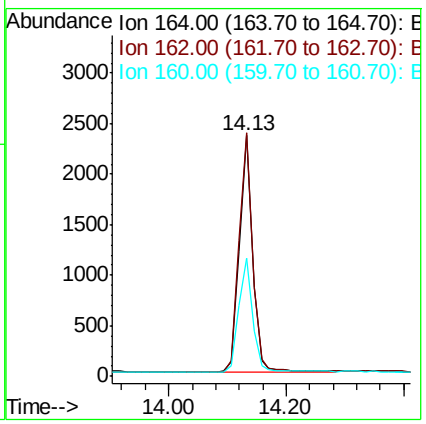


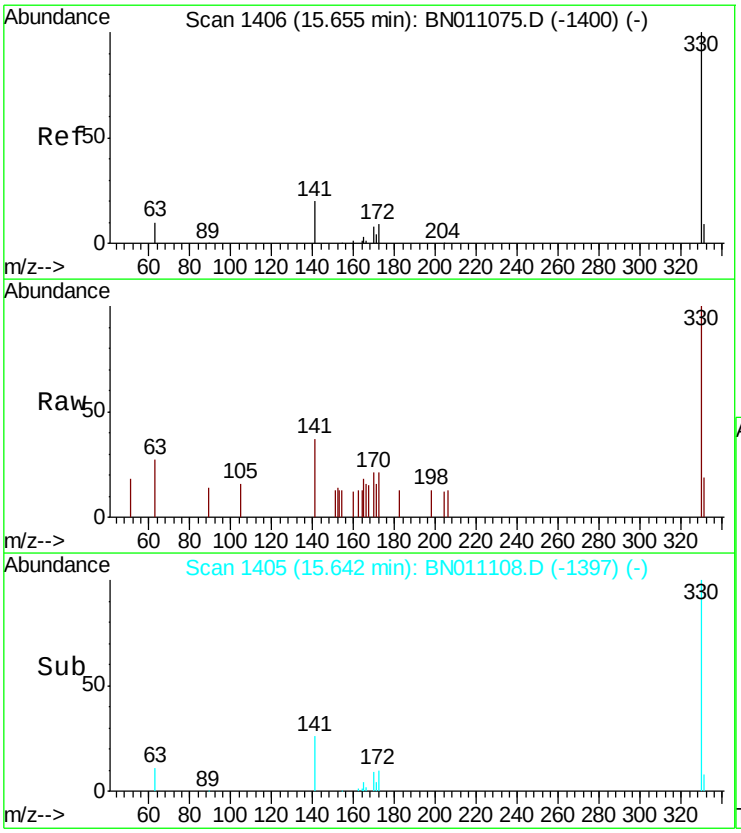
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.13 min Scan# 1286
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 3586

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.3	123.5
160	48.9	40.6	61.0

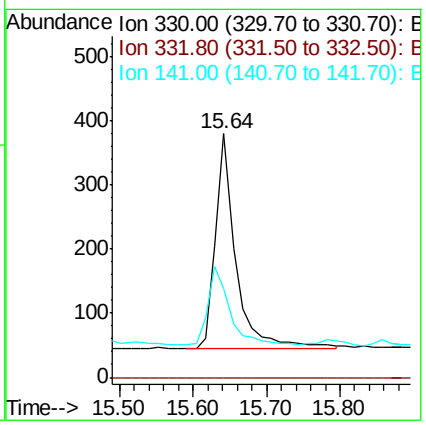


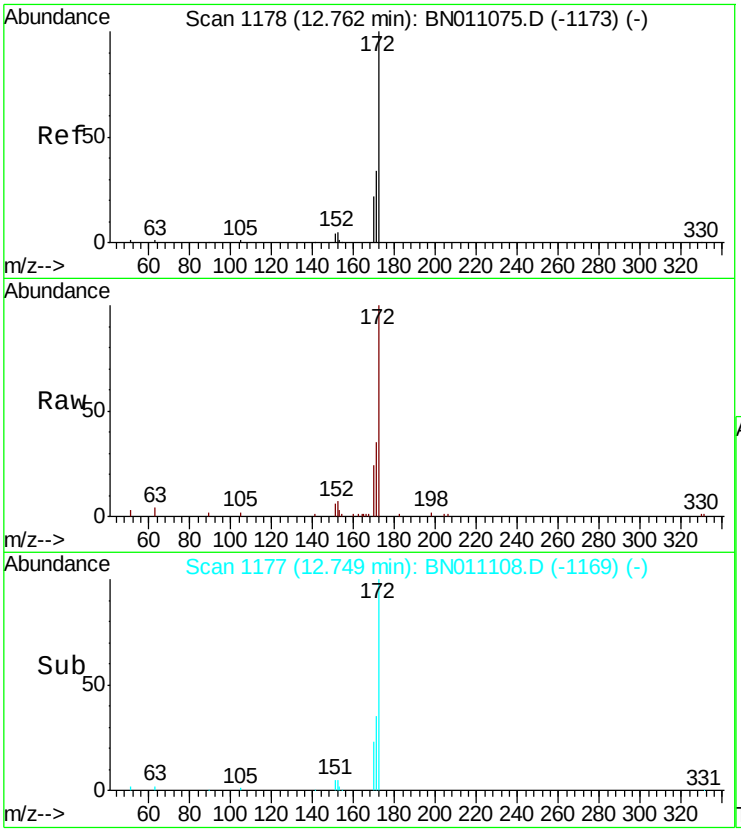


#14
2,4,6-Tribromophenol
Concen: 0.421 ng
RT: 15.64 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:330 Resp: 634

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	38.6	32.6	49.0



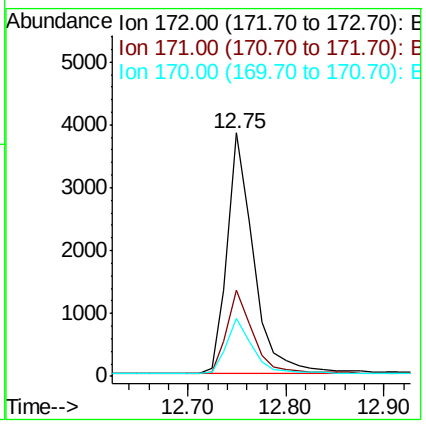


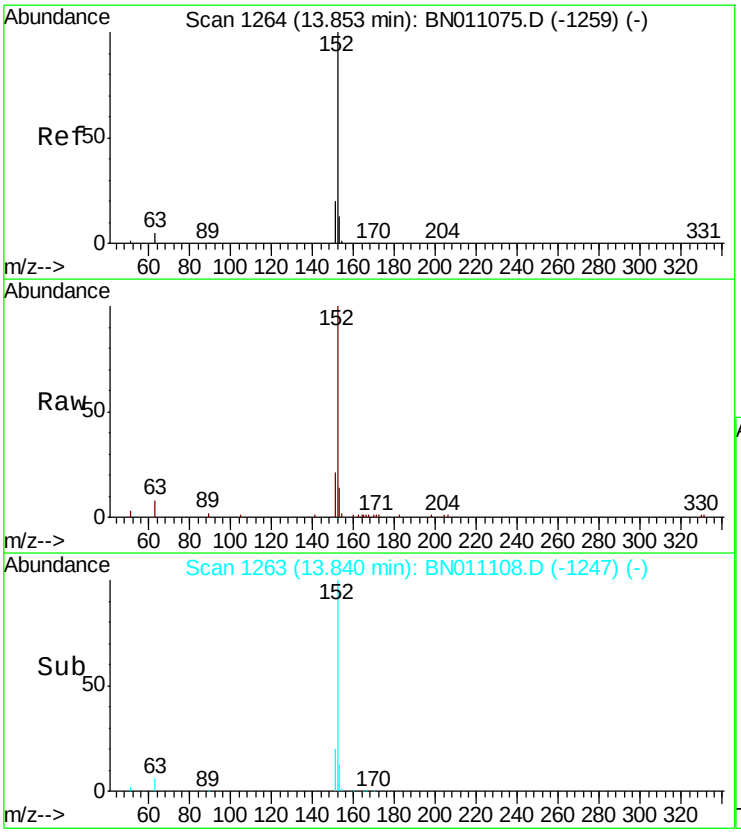
#15
2-Fluorobiphenyl
Concen: 0.420 ng
RT: 12.75 min Scan# 1177
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 7099

Ion	Ratio	Lower	Upper
172	100		
171	35.4	27.9	41.9
170	24.0	18.7	28.1

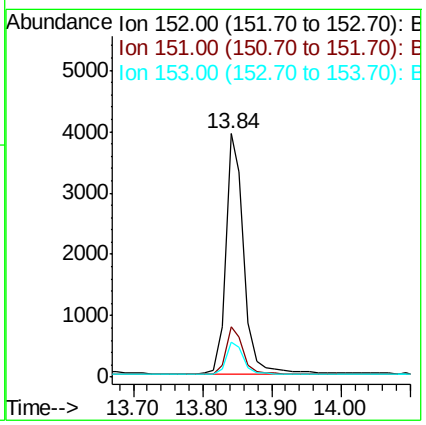


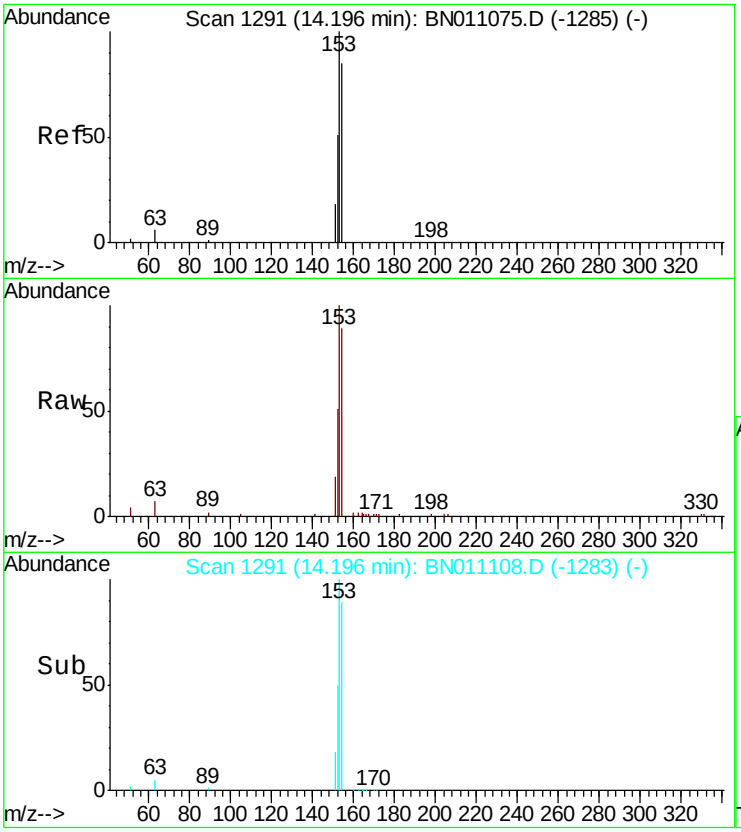


#16
Acenaphthylene
Concen: 0.401 ng
RT: 13.84 min Scan# 1263
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:152 Resp: 7201

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.8	23.8
153	13.4	10.8	16.2



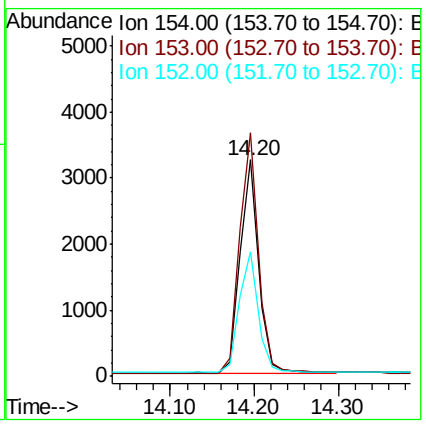


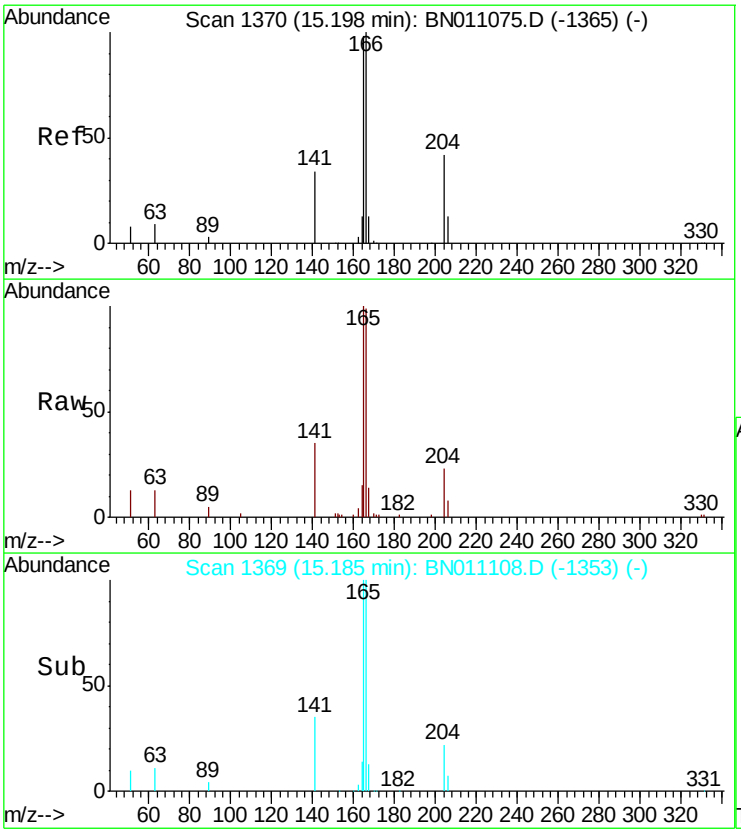
#17
Acenaphthene
Concen: 0.404 ng
RT: 14.20 min Scan# 1291
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4918

Ion	Ratio	Lower	Upper
154	100		
153	116.8	91.7	137.5
152	59.5	46.8	70.2

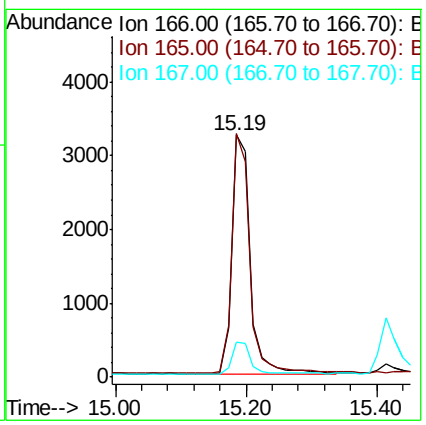


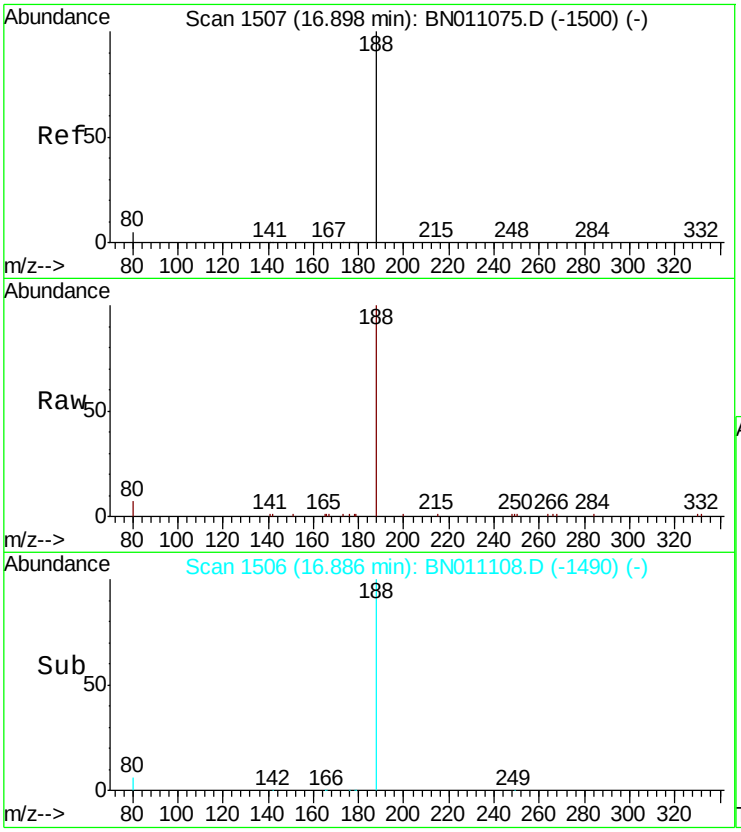


#18
Fluorene
Concen: 0.410 ng
RT: 15.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:166 Resp: 6237

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.9	118.3
167	13.7	10.9	16.3



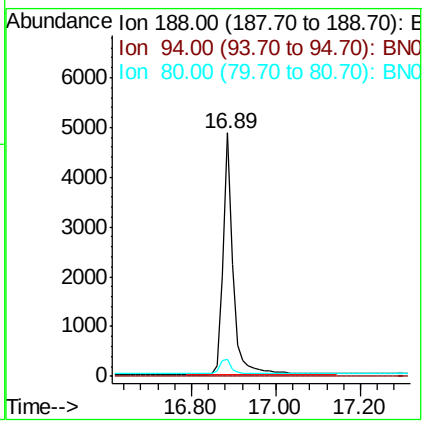


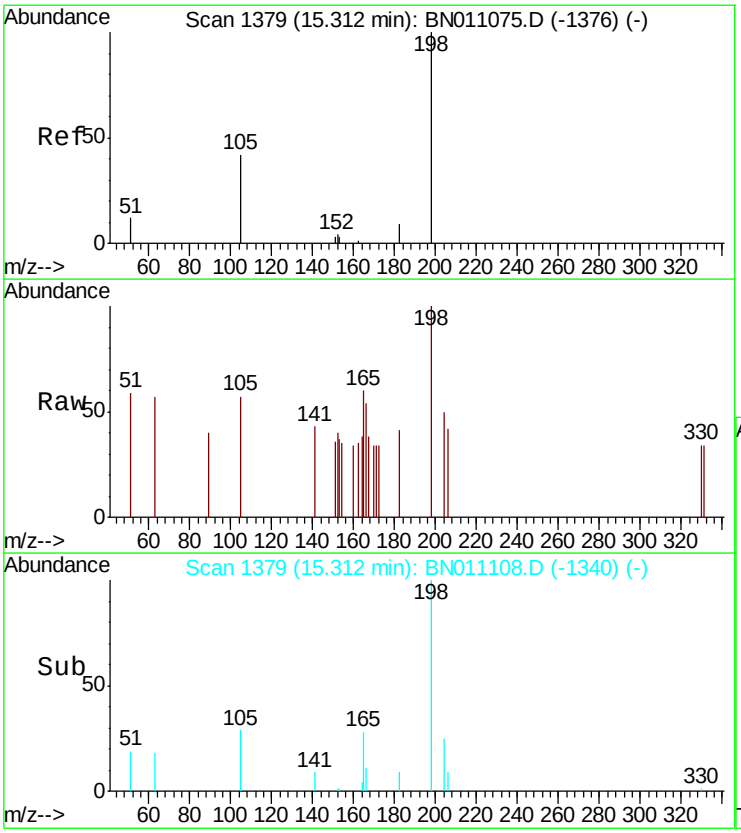
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.89 min Scan# 1506
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 7902

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	5.3	7.9

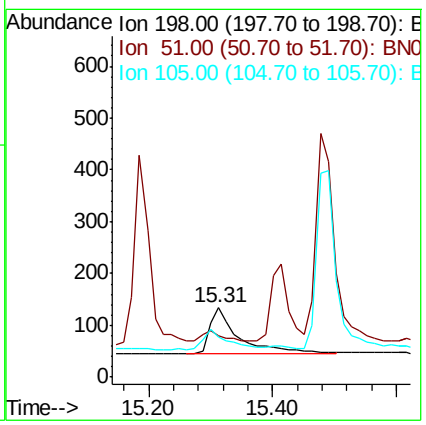


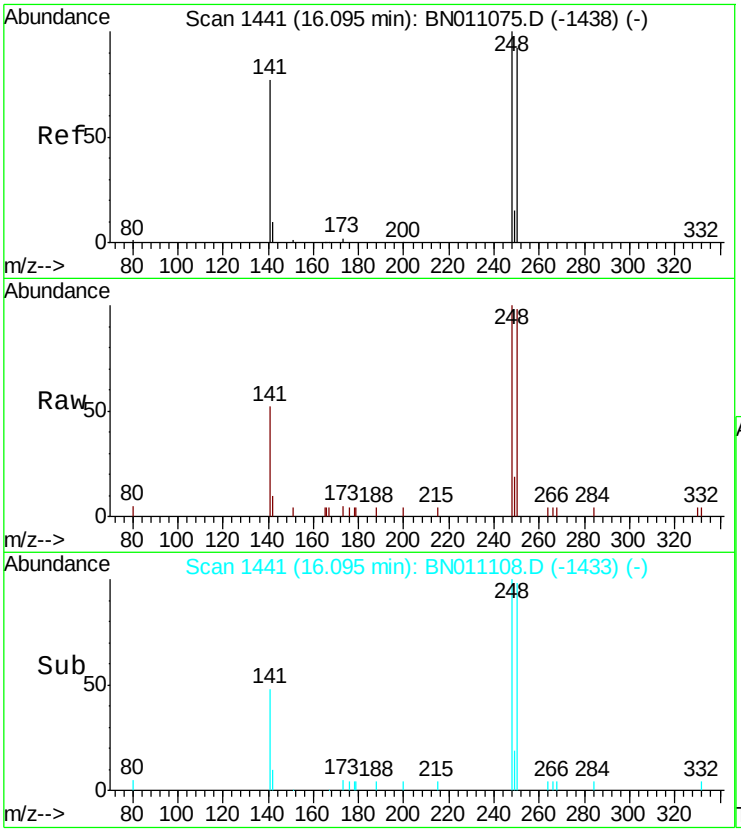


#20
4,6-Dinitro-2-methylphenol
Concen: 0.387 ng
RT: 15.31 min Scan# 1379
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:198 Resp: 296

Ion	Ratio	Lower	Upper
198	100		
51	59.0	58.2	87.4
105	57.5	59.0	88.4#



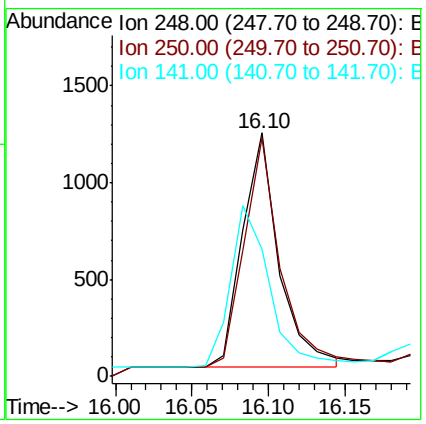


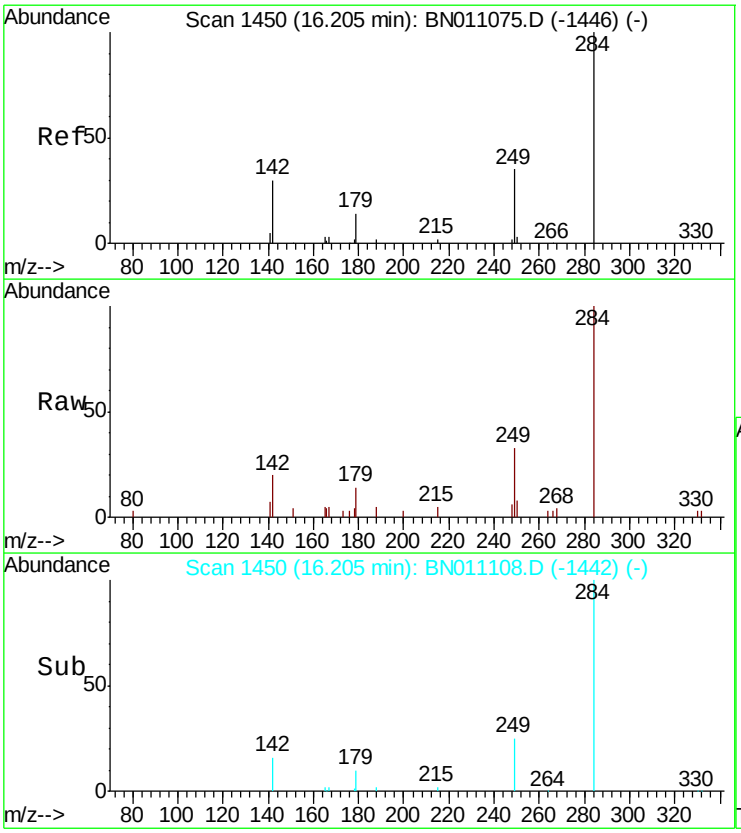
#21
4-Bromophenyl-phenylether
Concen: 0.384 ng
RT: 16.10 min Scan# 1441
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2019

Ion	Ratio	Lower	Upper
248	100		
250	97.9	73.8	110.8
141	52.0	63.1	94.7#

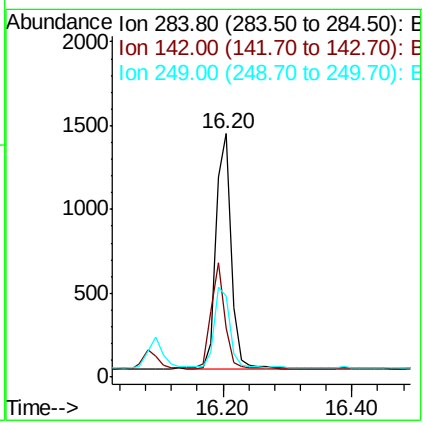


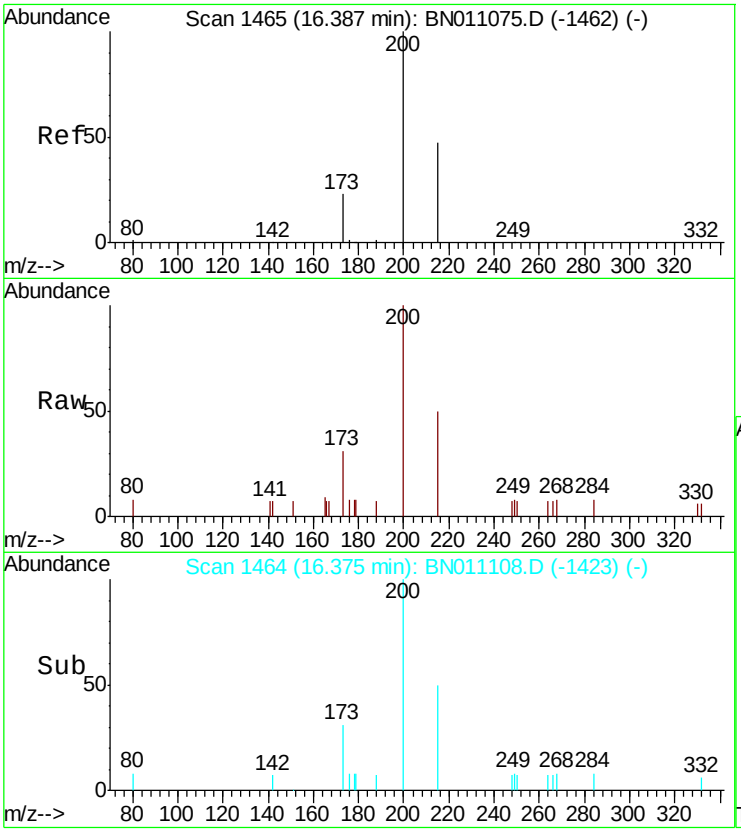


#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.20 min Scan# 1450
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:284 Resp: 2350

Ion	Ratio	Lower	Upper
284	100		
142	41.8	33.3	49.9
249	34.4	27.4	41.2



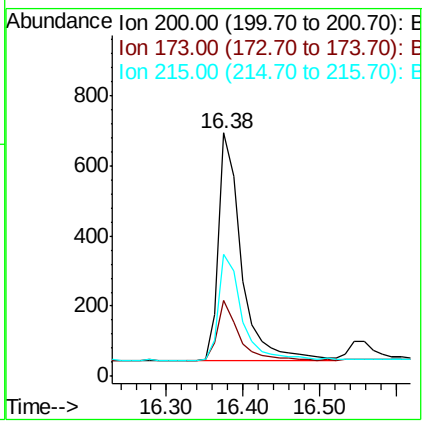


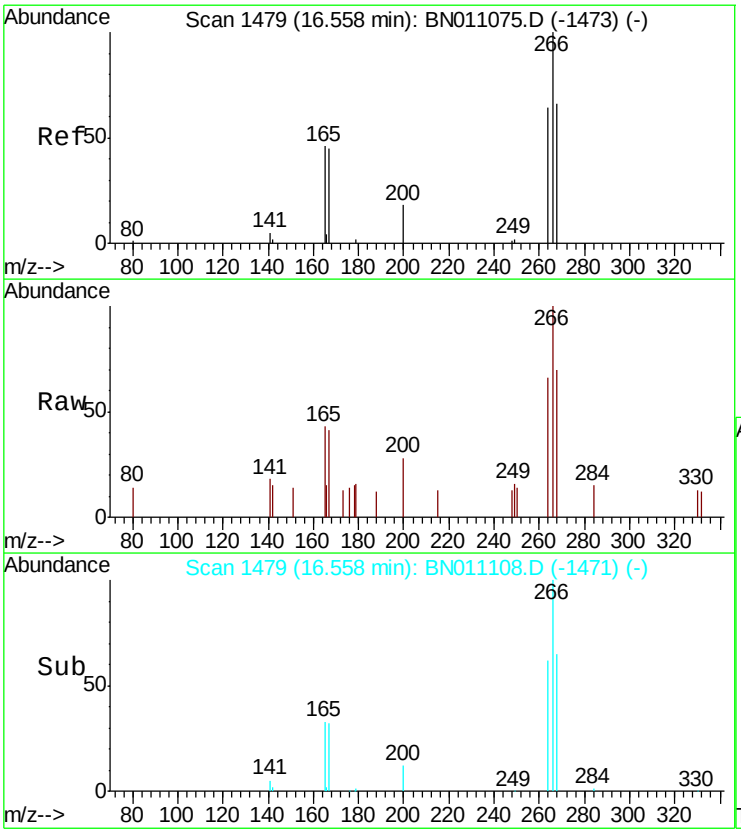
#23
Atrazine
Concen: 0.361 ng
RT: 16.38 min Scan# 1464
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1341

Ion	Ratio	Lower	Upper
200	100		
173	31.4	22.8	34.2
215	50.3	40.7	61.1

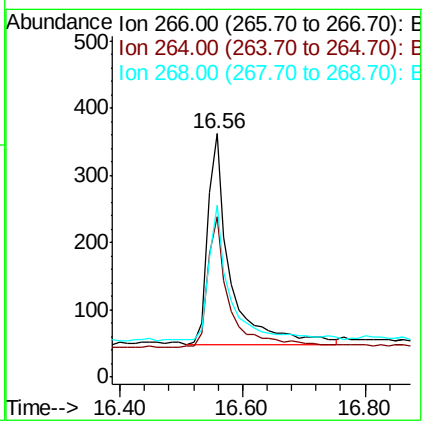


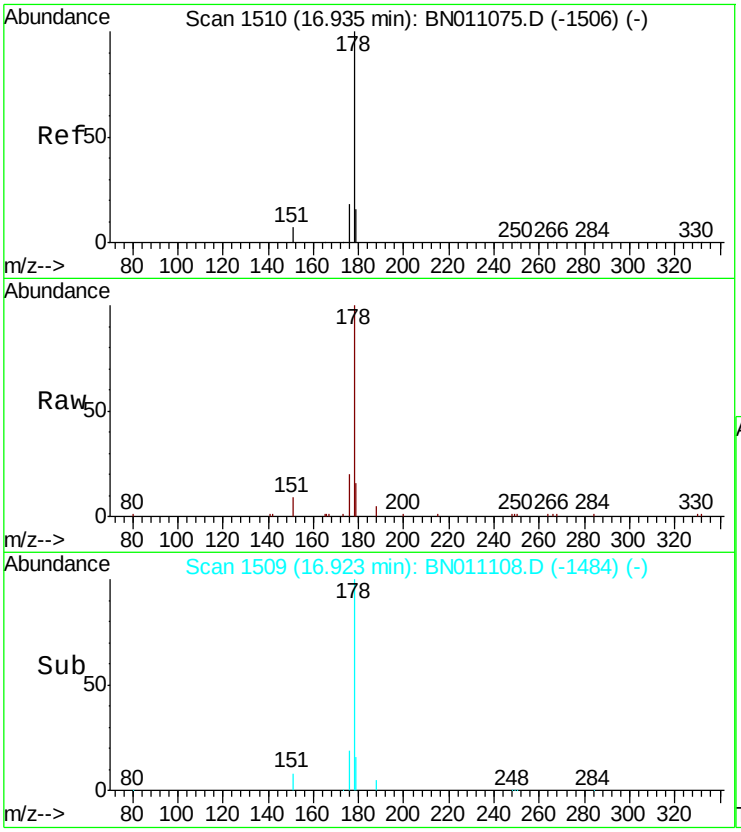


#24
Pentachlorophenol
Concen: 0.473 ng
RT: 16.56 min Scan# 1479
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:266 Resp: 788

Ion	Ratio	Lower	Upper
266	100		
264	61.8	47.4	71.0
268	60.7	55.0	82.4



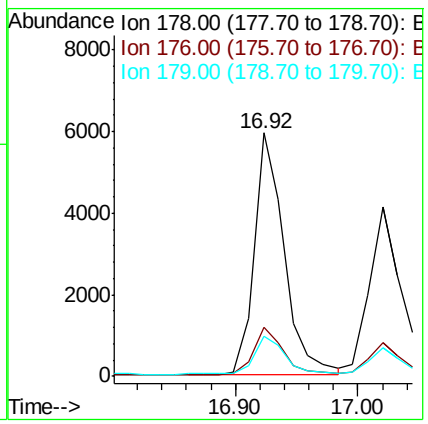


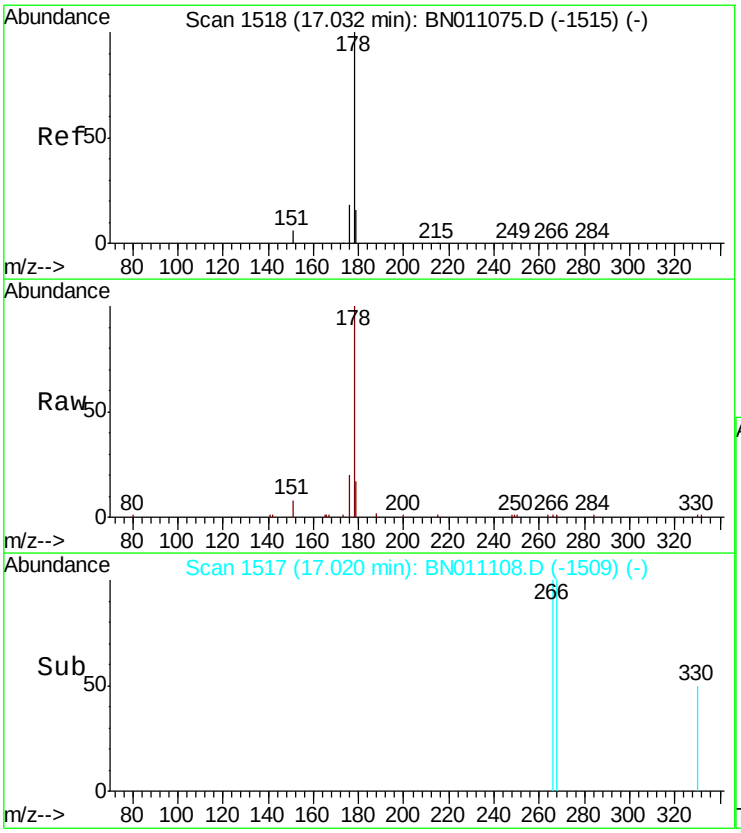
#25
Phenanthrene
Concen: 0.393 ng
RT: 16.92 min Scan# 1509
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 10058

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	15.8	12.5	18.7

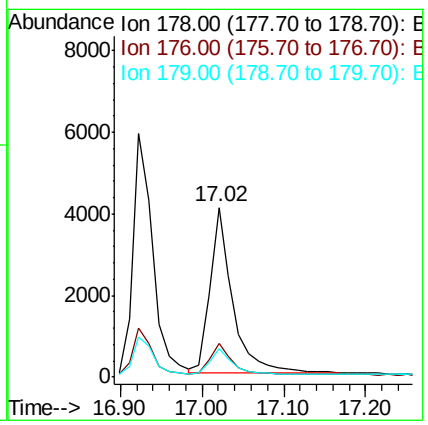


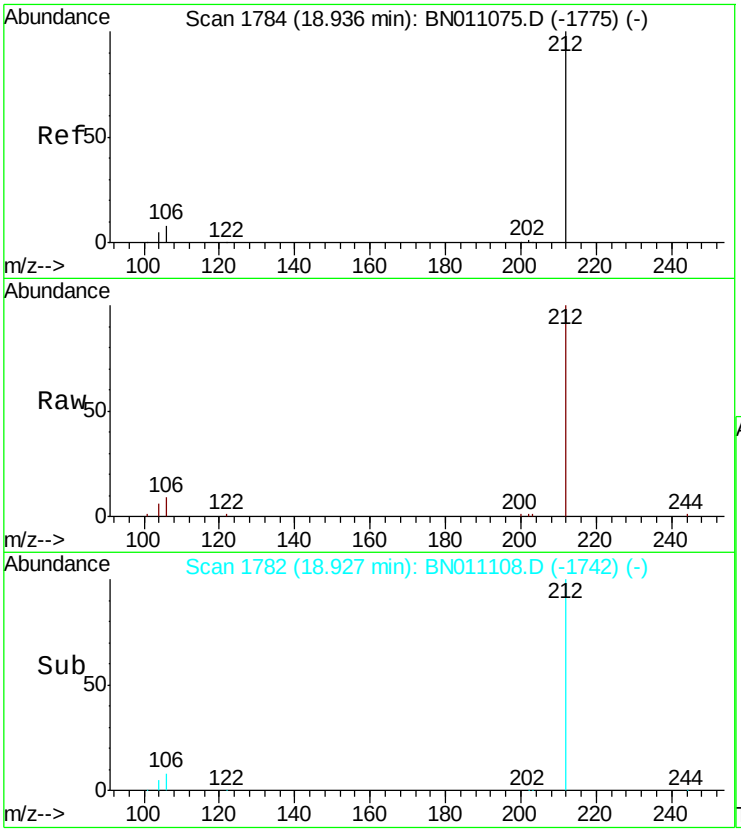


#26
Anthracene
Concen: 0.368 ng
RT: 17.02 min Scan# 1517
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:178 Resp: 7785

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.2	21.4
179	15.4	12.2	18.2



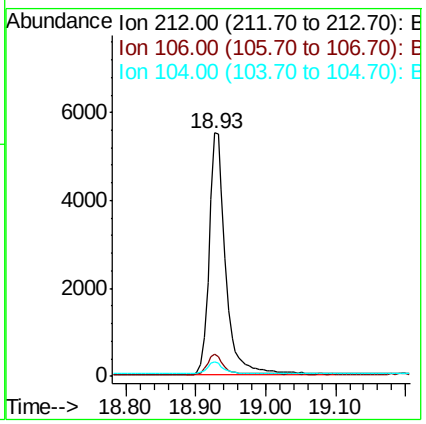


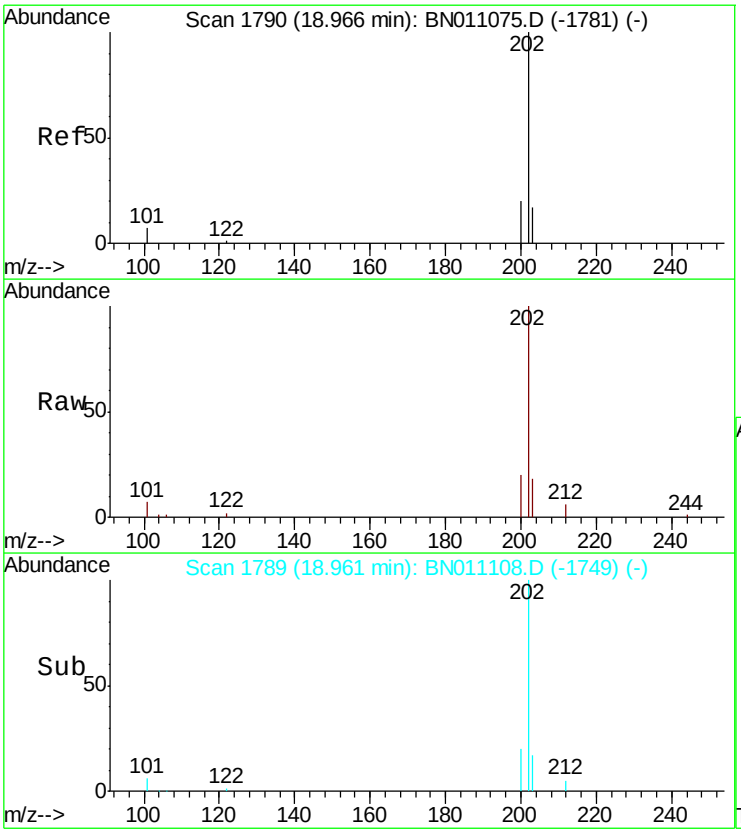
#27
Fluoranthene-d10
Concen: 0.377 ng
RT: 18.93 min Scan# 1782
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 8999

Ion	Ratio	Lower	Upper
212	100		
106	8.3	7.1	10.7
104	5.0	4.2	6.4

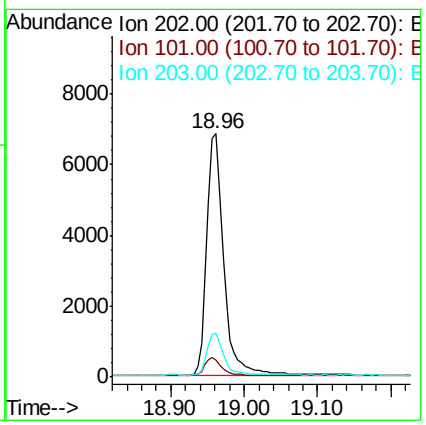


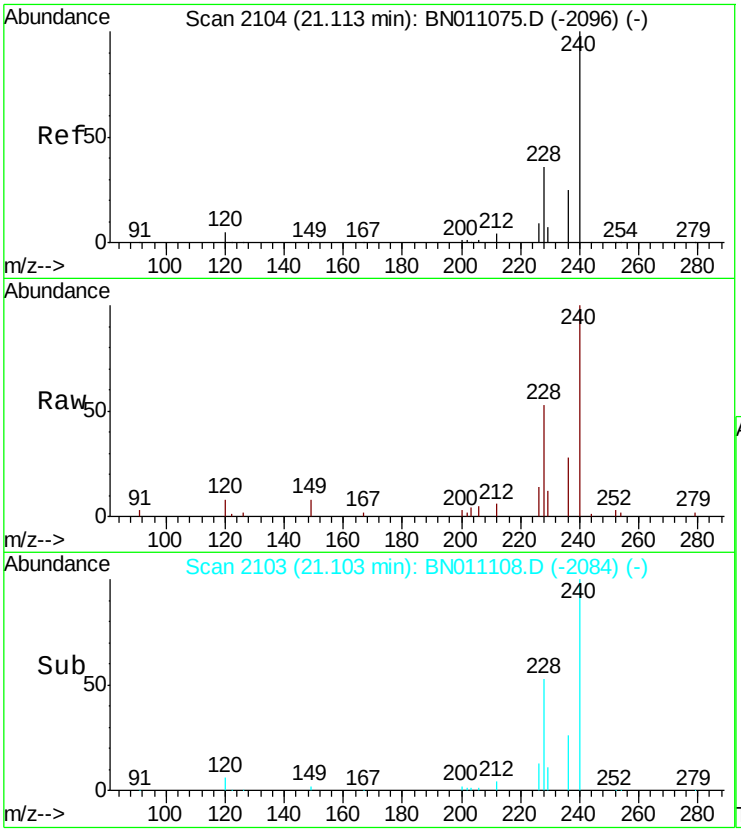


#28
Fluoranthene
Concen: 0.375 ng
RT: 18.96 min Scan# 1789
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:202 Resp: 10802

Ion	Ratio	Lower	Upper
202	100		
101	7.4	6.3	9.5
203	17.1	13.5	20.3



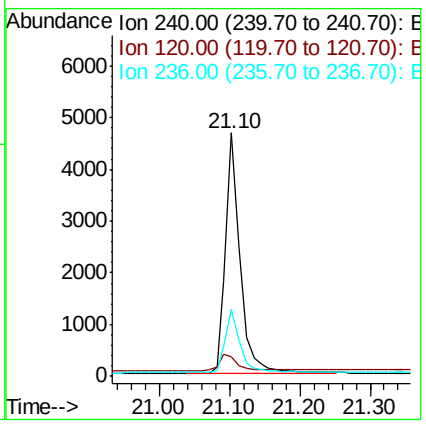


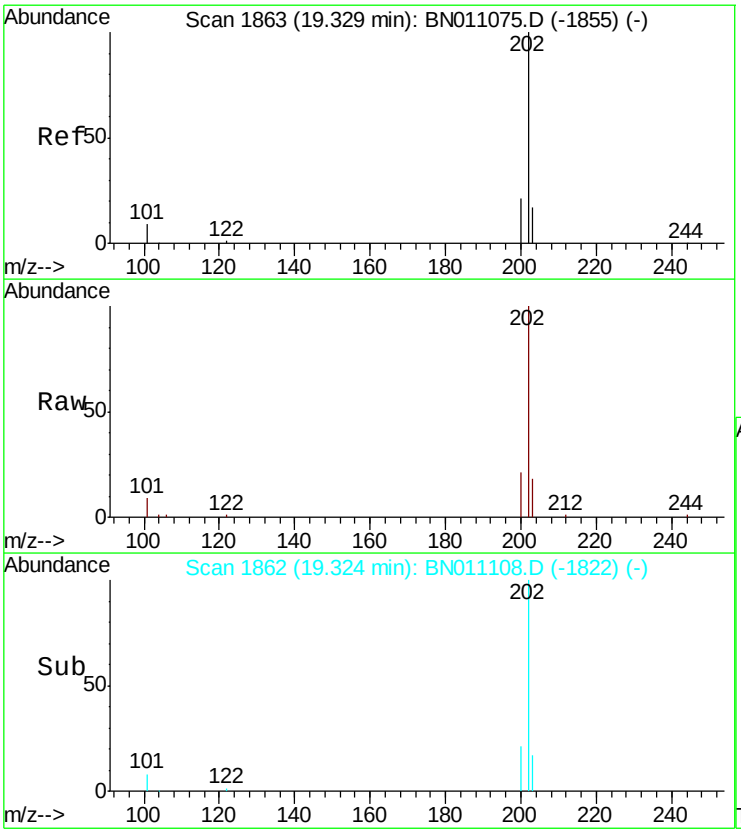
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.10 min Scan# 2103
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 6835

Ion	Ratio	Lower	Upper
240	100		
120	8.1	6.5	9.7
236	27.5	21.9	32.9

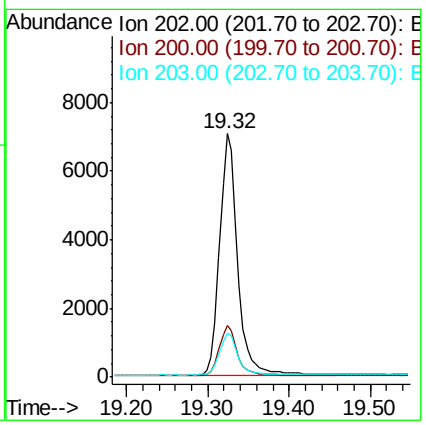


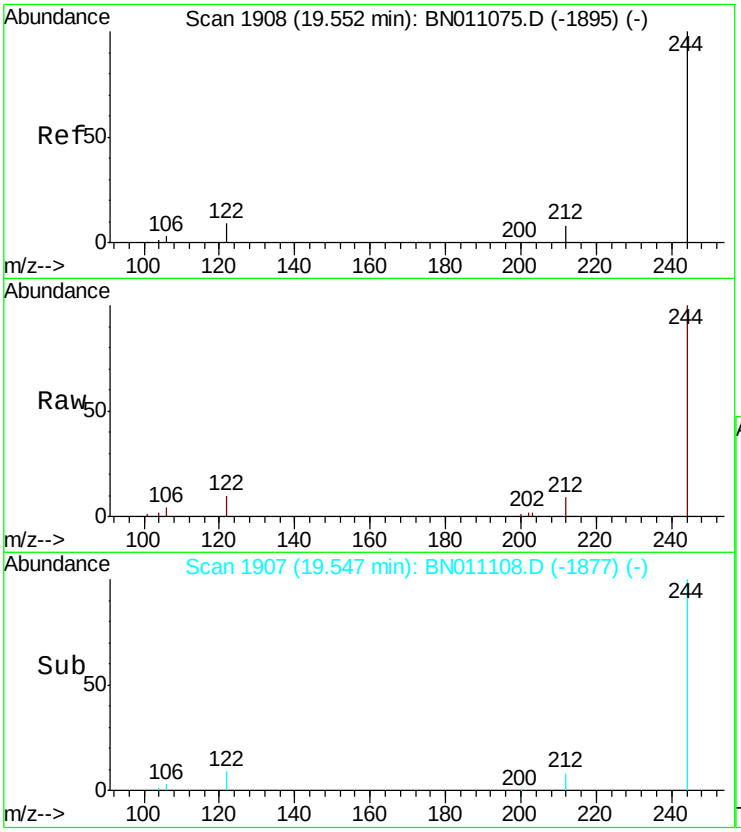


#30
Pyrene
Concen: 0.423 ng
RT: 19.32 min Scan# 1862
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:202 Resp: 10789

Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.6	25.0
203	17.7	14.2	21.4



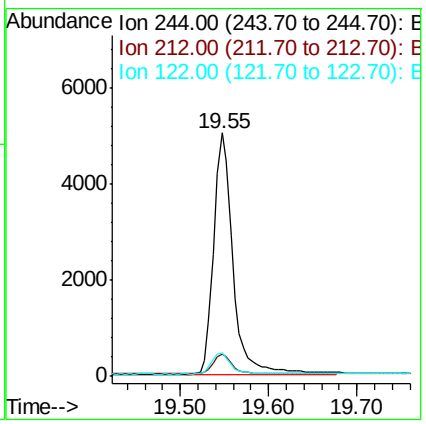


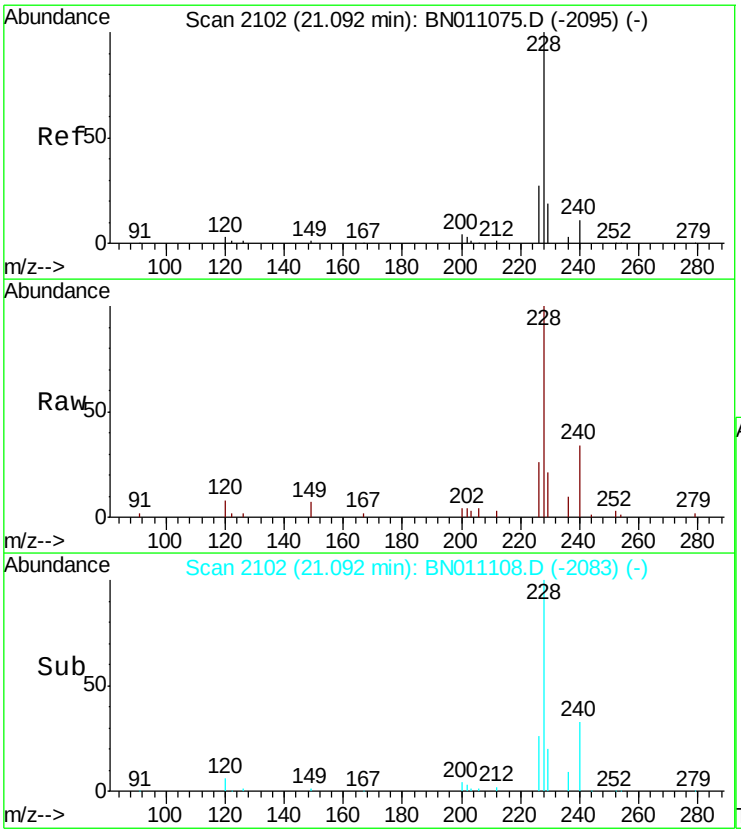
#31
Terphenyl-d14
Concen: 0.427 ng
RT: 19.55 min Scan# 1907
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7602

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.5	11.3
122	9.5	8.2	12.4

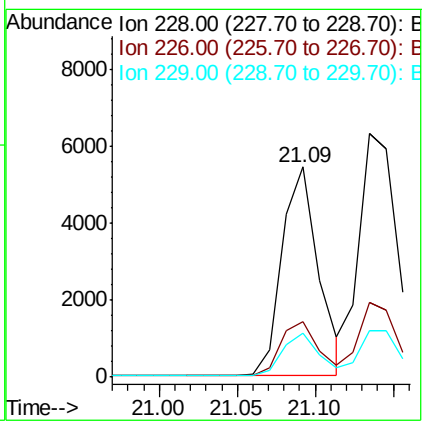


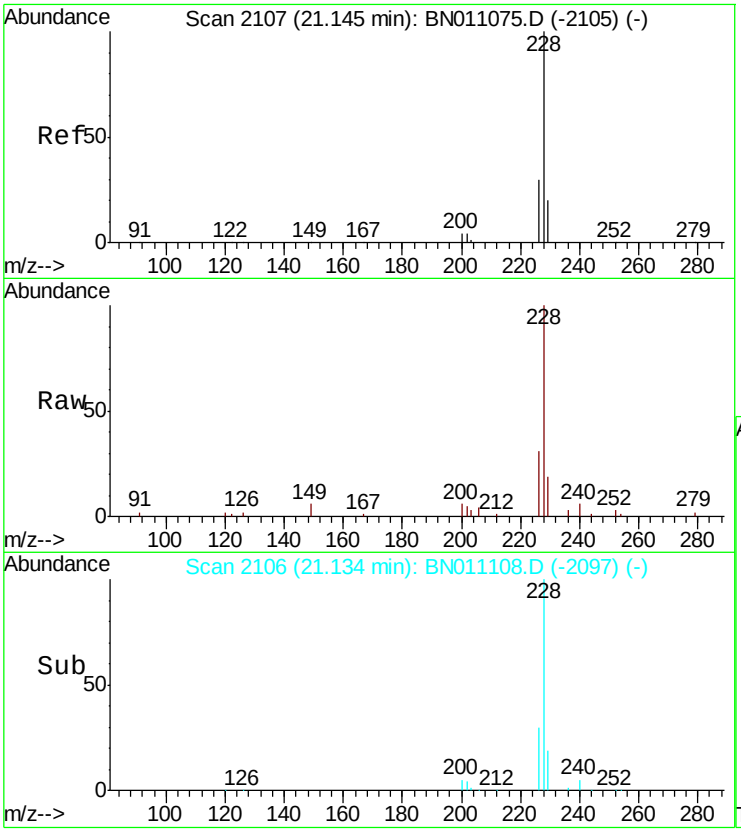


#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.09 min Scan# 2102
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:228 Resp: 8773

Ion	Ratio	Lower	Upper
228	100		
226	26.4	22.0	33.0
229	20.8	16.1	24.1



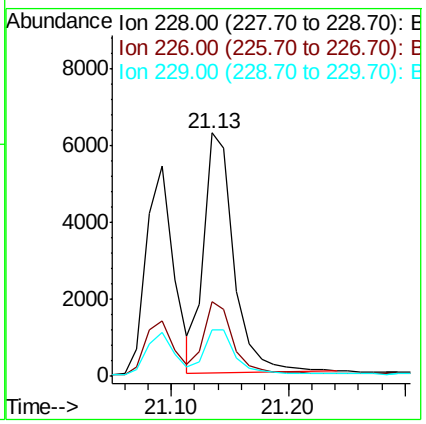


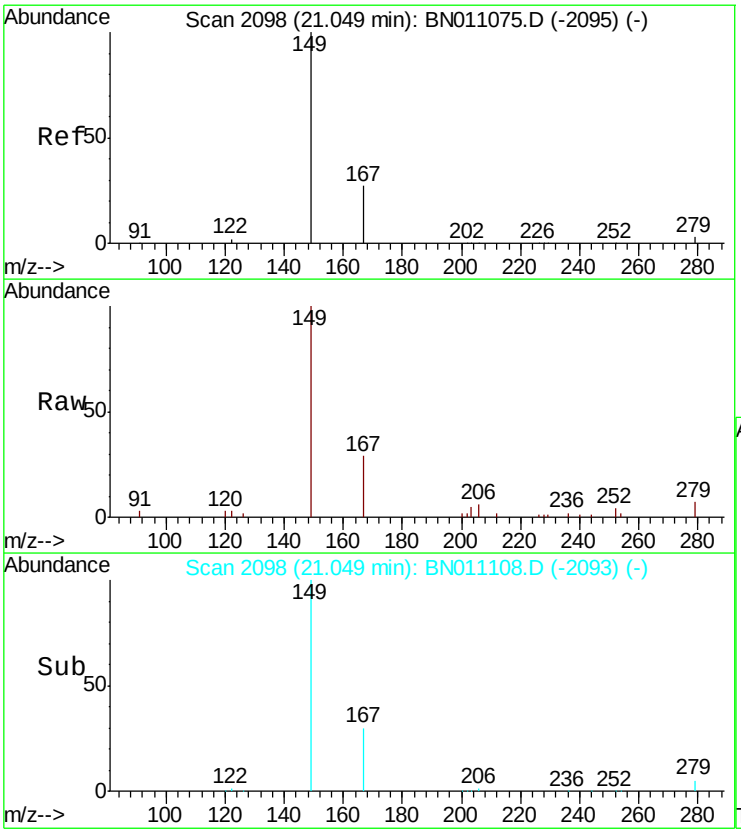
#33
Chrysene
Concen: 0.426 ng
RT: 21.13 min Scan# 2106
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 11175

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.0	36.0
229	19.3	16.4	24.6

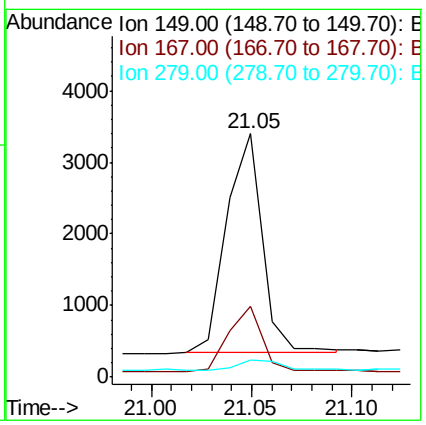


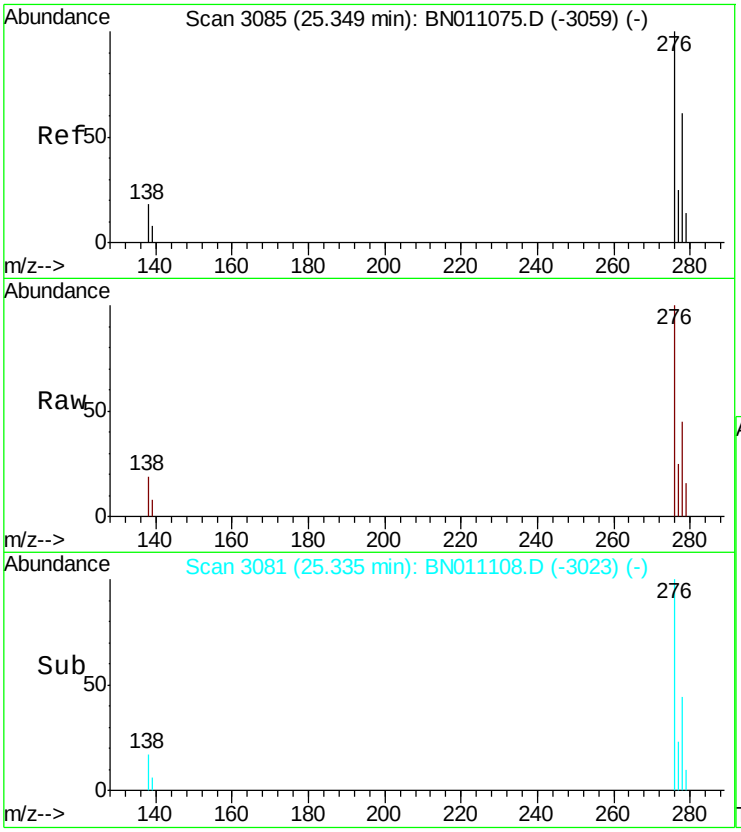


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 21.05 min Scan# 2098
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:149 Resp: 3831

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	5.5	4.5	6.7



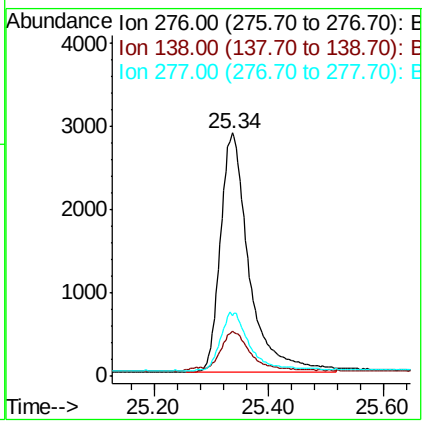


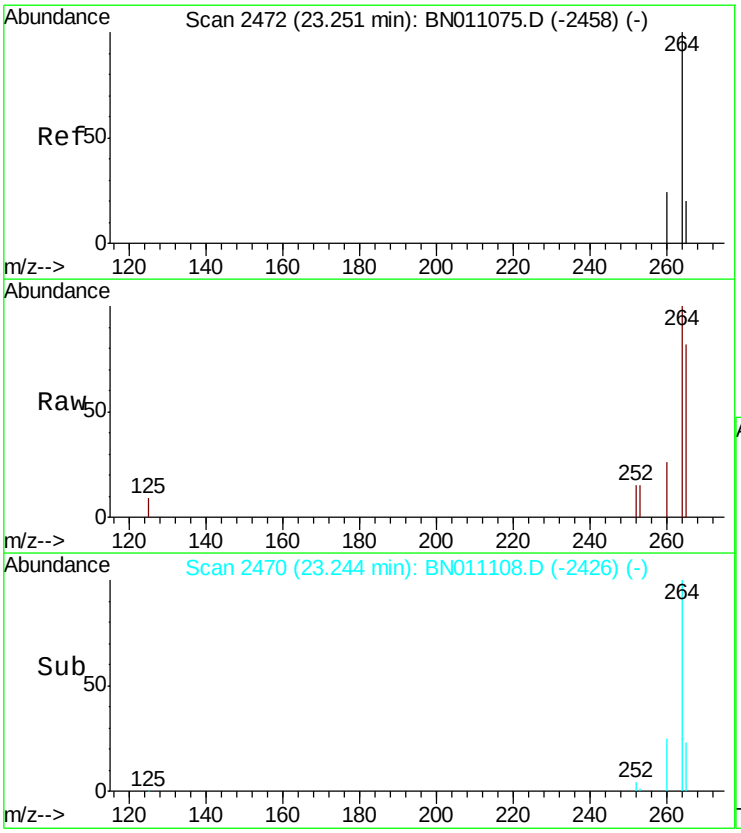
#35
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.34 min Scan# 3081
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 10021

Ion	Ratio	Lower	Upper
276	100		
138	15.9	15.4	23.0
277	23.6	19.4	29.0

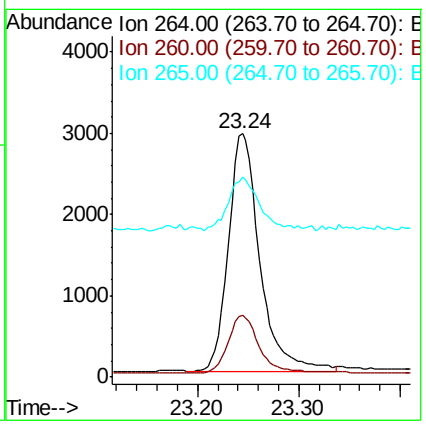


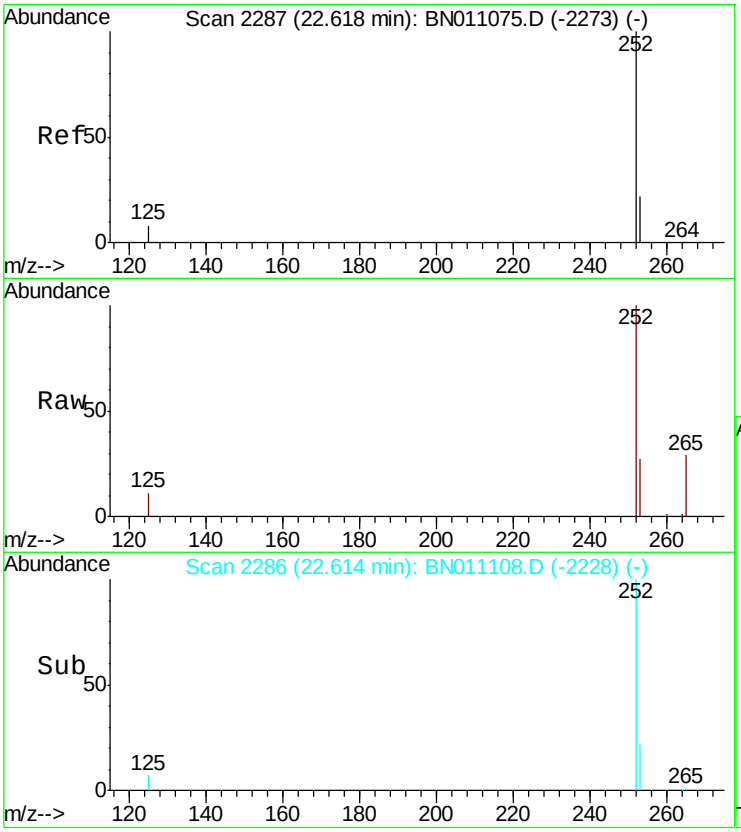


#36
Perylene-d12
Concen: 0.400 ng
RT: 23.24 min Scan# 2470
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:264 Resp: 6341

Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.4	30.6
265	82.3	83.0	124.6#



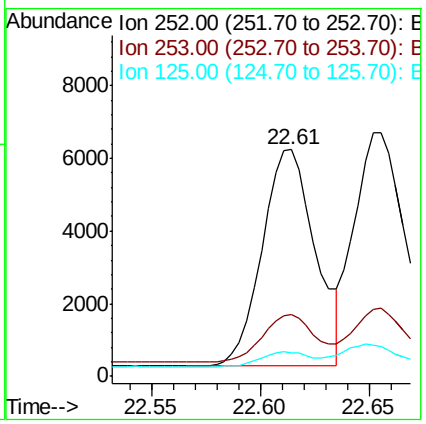


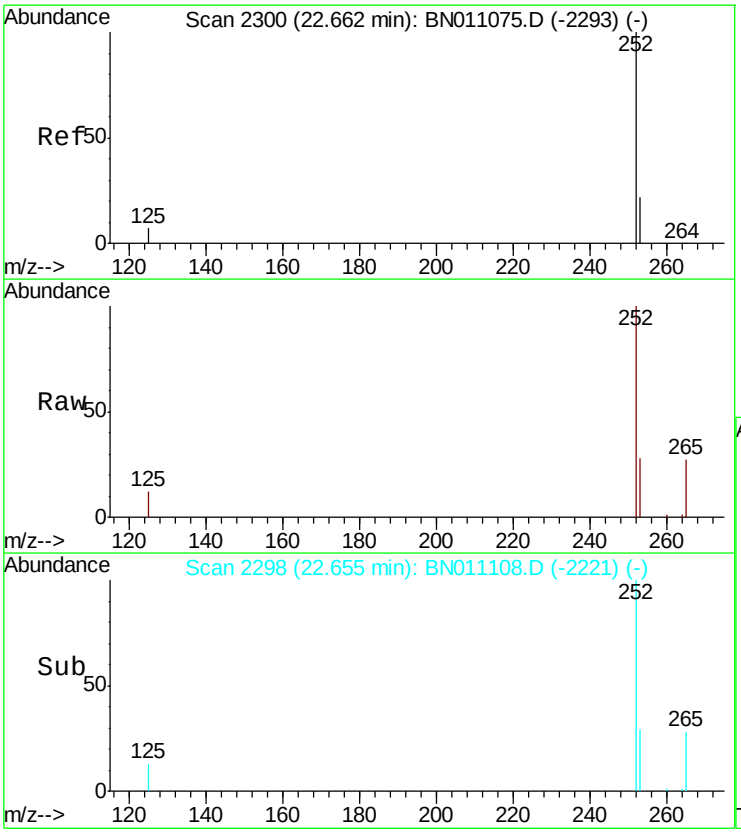
#37
Benzo(b)fluoranthene
Concen: 0.399 ng
RT: 22.61 min Scan# 2286
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 10139

Ion	Ratio	Lower	Upper
252	100		
253	27.1	22.7	34.1
125	10.6	10.4	15.6

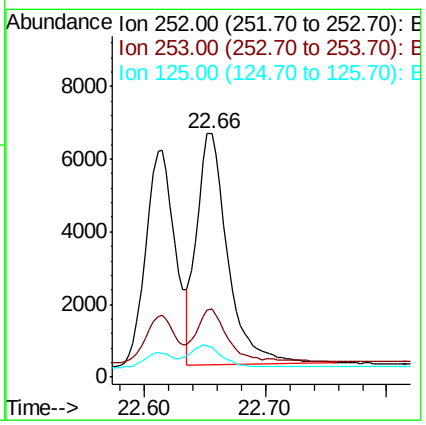


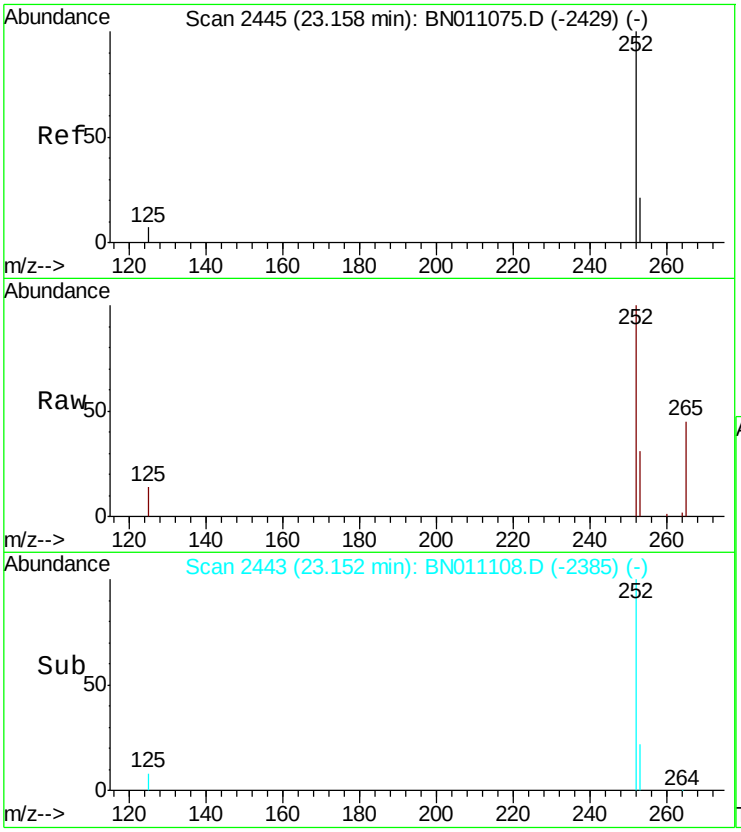


#38
Benzo(k)fluoranthene
Concen: 0.419 ng
RT: 22.66 min Scan# 2298
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:252 Resp: 11409

Ion	Ratio	Lower	Upper
252	100		
253	27.8	22.9	34.3
125	12.0	10.6	15.8



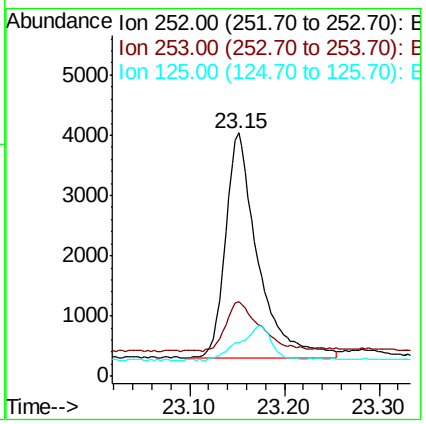


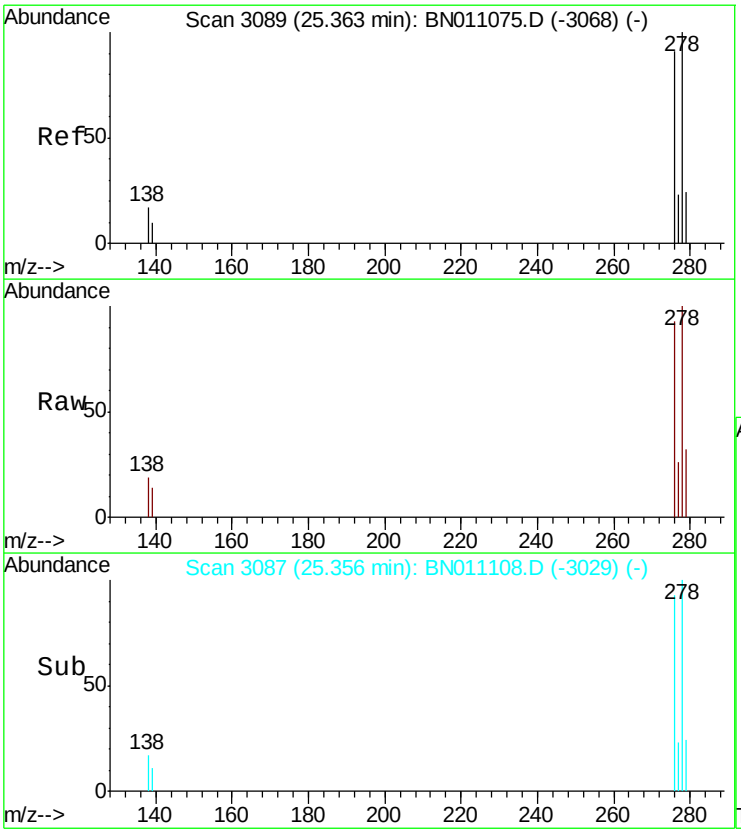
#39
Benzo(a)pyrene
Concen: 0.406 ng
RT: 23.15 min Scan# 2443
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 8896

Ion	Ratio	Lower	Upper
252	100		
253	30.7	25.9	38.9
125	14.0	12.5	18.7

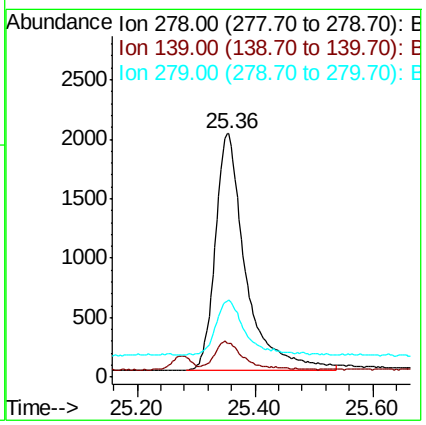


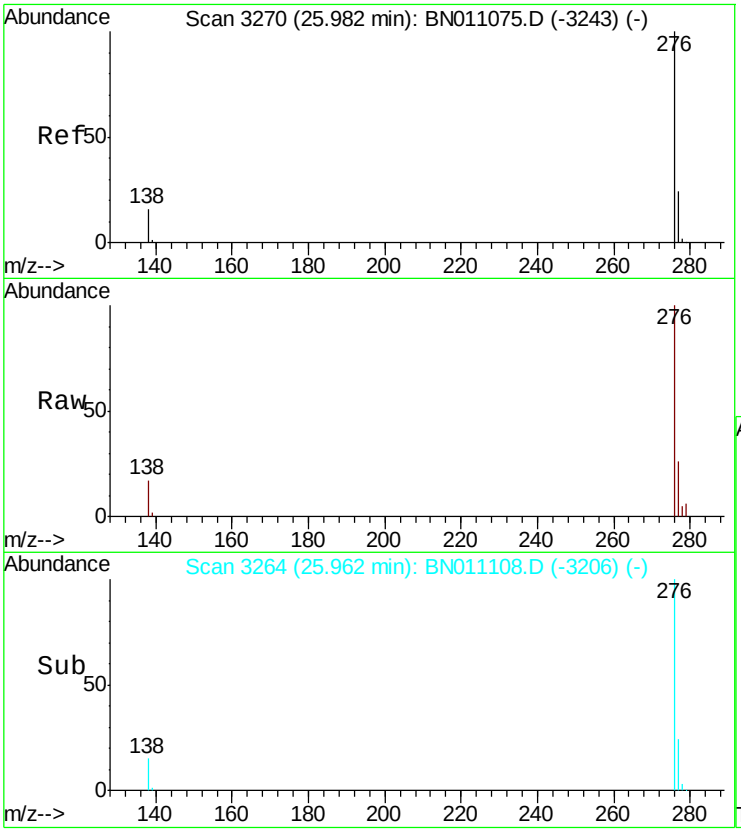


#40
Dibenzo(a,h)anthracene
Concen: 0.317 ng
RT: 25.36 min Scan# 3087
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Tgt Ion:278 Resp: 7105

Ion	Ratio	Lower	Upper
278	100		
139	13.9	11.9	17.9
279	31.7	25.5	38.3





#41
Benzo(g,h,i)perylene
Concen: 0.431 ng
RT: 25.96 min Scan# 3264
Delta R.T. 0.00 min
Lab File: BN011108.D
Acq: 07 Jul 2020 08:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 10652

Ion	Ratio	Lower	Upper
276	100		
277	25.7	21.1	31.7
138	16.7	15.0	22.6