Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082120\
Data File : BN011558.D
Acq On : 21 Aug 2020 17:00
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : SSTDICC0.2

Quant Time: Aug 21 18:42:45 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082120.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 21 18:41:03 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	1193	0.40	ng		0.00
7) Naphthalene-d8	10.15	136	4569	0.40	ng		0.00
13) Acenaphthene-d10	14.03	164	3260	0.40	ng		0.00
19) Phenanthrene-d10	16.80	188	7594	0.40	ng		0.01
29) Chrysene-d12	21.01	240	7495	0.40	ng		0.00
36) Perylene-d12	23.11	264	6430	0.40	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.07	112	593	0.21	ng		0.00
5) Phenol-d6	6.64	99	489	0.15	ng		0.00
8) Nitrobenzene-d5	8.56	82	494	0.13	ng		0.01
11) 2-Methylnaphthalene-d10	11.76	152	1772	0.21	ng		0.00
14) 2,4,6-Tribromophenol	15.56	330	312	0.21	ng		0.01
15) 2-Fluorobiphenyl	12.66	172	2686	0.19	ng		0.00
27) Fluoranthene-d10	18.84	212	5495	0.24	ng		0.00
31) Terphenyl-d14	19.46	244	4273	0.26	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.12	88	389	0.251	ng	#	100
3) n-Nitrosodimethylamine	3.49	42	136	0.212	ng	#	83
6) bis(2-Chloroethyl)ether	6.88	93	454	0.179	ng	#	77
9) Naphthalene	10.20	128	2883	0.217	ng		96
10) Hexachlorobutadiene	10.48	225	846	0.245	ng	#	99
12) 2-Methylnaphthalene	11.83	142	1979	0.207	ng		98
16) Acenaphthylene	13.75	152	3494	0.214	ng		99
17) Acenaphthene	14.09	154	2382	0.225	ng		100
18) Fluorene	15.09	166	3154	0.232	ng		100
20) 4,6-Dinitro-2-methylphenol	15.27	198	153	0.165	ng	#	77
21) 4-Bromophenyl-phenylether	16.02	248	577	0.092	ng		99
22) Hexachlorobenzene	16.10	284	1276	0.225	ng		98
23) Atrazine	16.30	200	844	0.228	ng		96
24) Pentachlorophenol	16.48	266	340	0.196	ng		96
25) Phenanthrene	16.83	178	5059	0.209	ng		99
26) Anthracene	16.93	178	4019	0.195	ng		99
28) Fluoranthene	18.87	202	6553	0.229	ng		99
30) Pyrene	19.24	202	6669	0.270	ng		99
32) Benzo(a)anthracene	21.00	228	5005	0.219	ng		99
33) Chrysene	21.05	228	6550	0.251	ng		99
34) Bis(2-ethylhexyl)phthalate	20.96	149	2592	0.318	ng		98
35) Indeno(1,2,3-cd)pyrene	25.15	276	4782	0.150	ng		95
37) Benzo(b)fluoranthene	22.50	252	5157	0.201	ng	#	95
38) Benzo(k)fluoranthene	22.50	252	5123	0.193	ng		96
39) Benzo(a)pyrene	23.03	252	4720	0.211	ng	#	92
40) Dibenzo(a,h)anthracene	25.18	278	3118	0.125	ng	#	88
41) Benzo(g,h,i)perylene	25.76	276	4553	0.175	ng		99

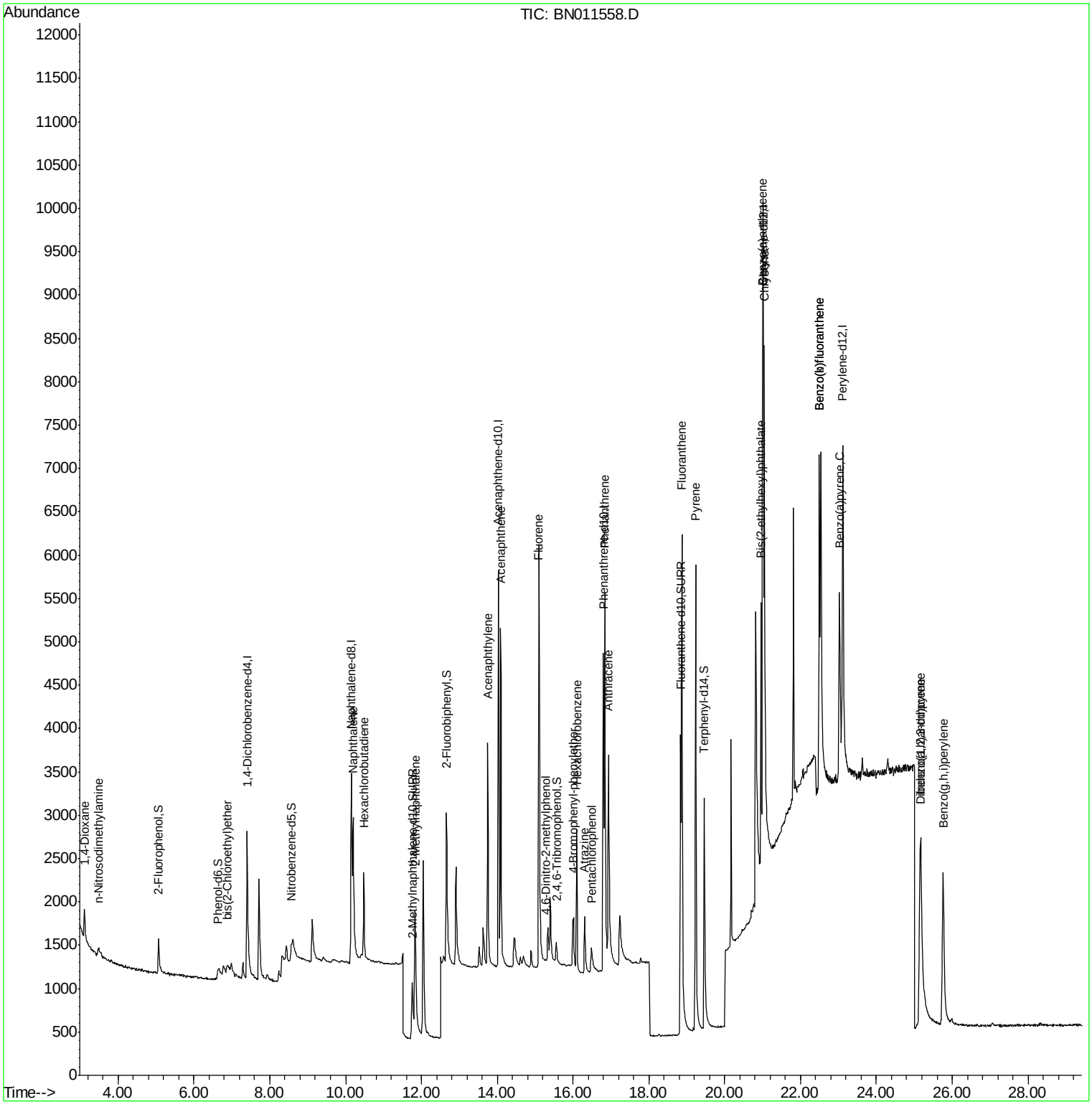
(#) = qualifier out of range (m) = manual integration (+) = signals summed

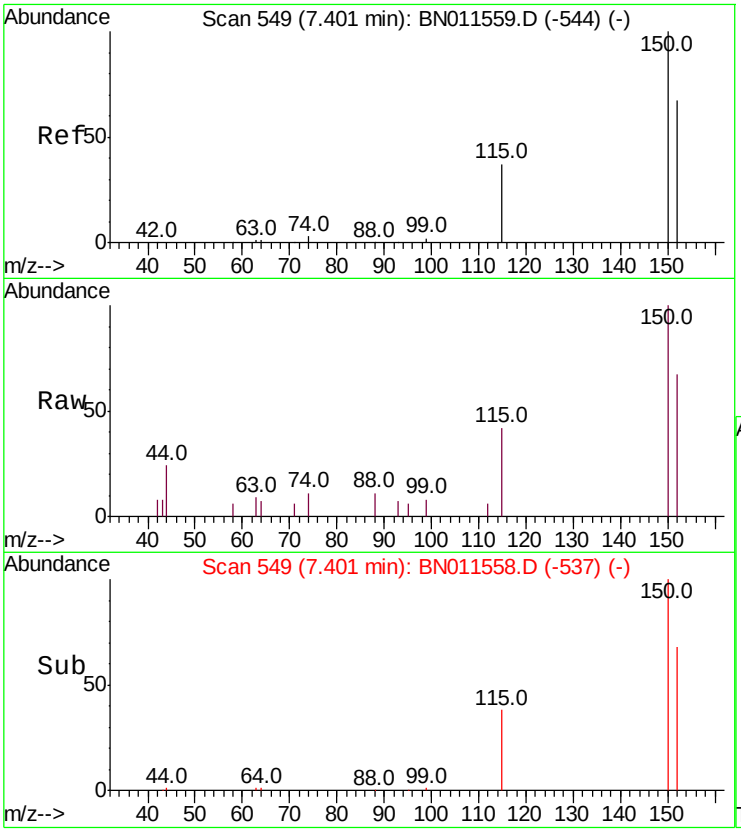
Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082120\
Data File : BN011558.D
Acq On : 21 Aug 2020 17:00
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Aug 21 18:42:45 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082120.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 21 18:41:03 2020
Response via : Initial Calibration



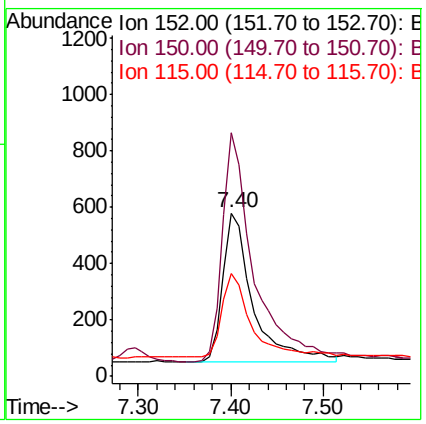


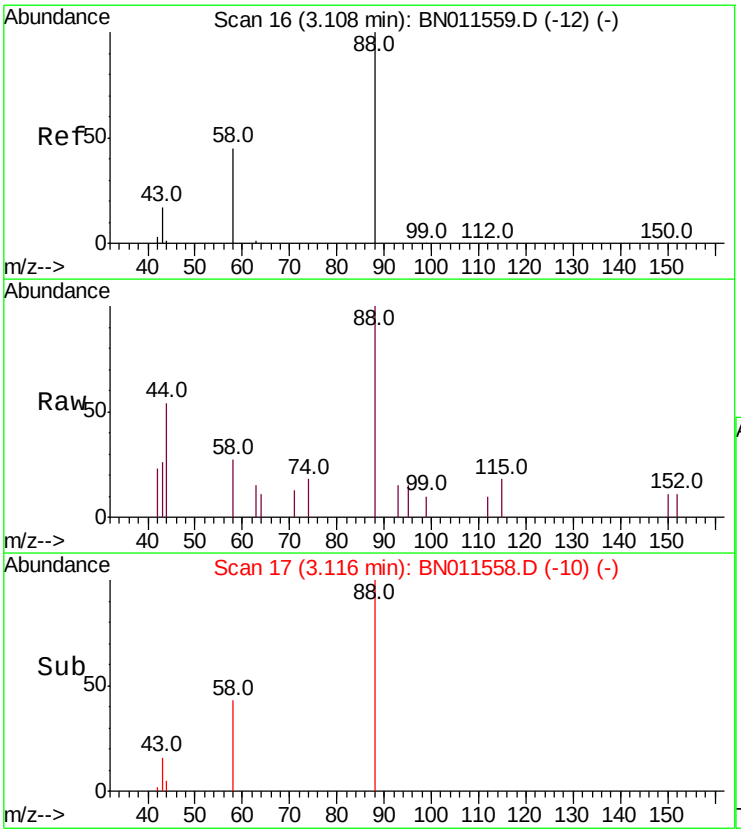
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.40 min Scan# 549
Delta R.T. -0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1193

Ion	Ratio	Lower	Upper
152	100		
150	149.2	117.1	175.7
115	62.9	48.7	73.1

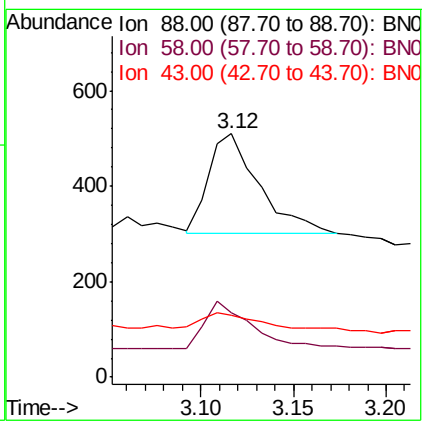


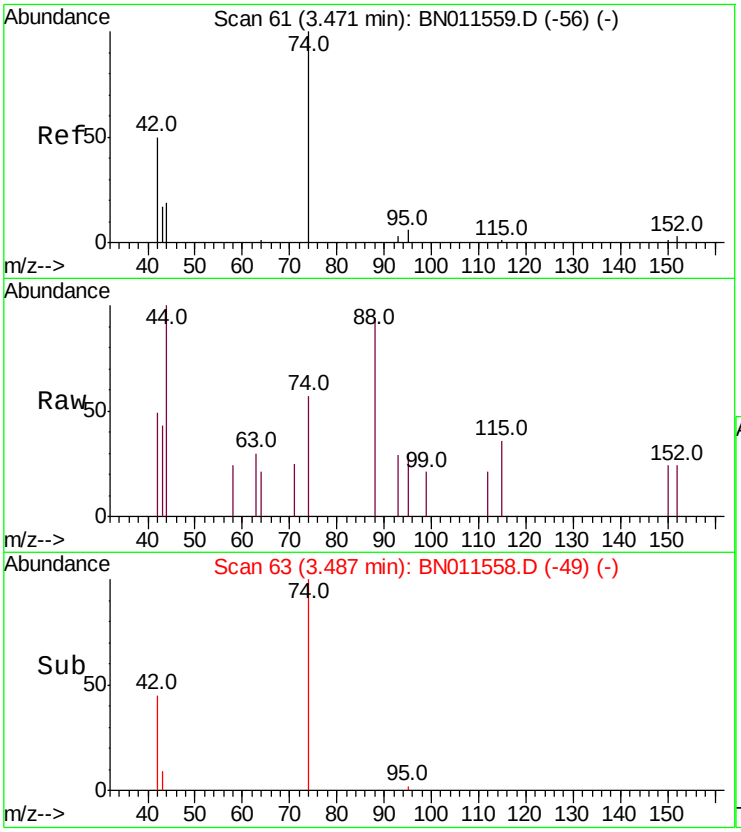


#2
1,4-Dioxane
Concen: 0.251 ng
RT: 3.12 min Scan# 17
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion: 88 Resp: 389

Ion	Ratio	Lower	Upper
88	100		
58	45.8	0.0	0.0#
43	15.9	0.0	0.0#



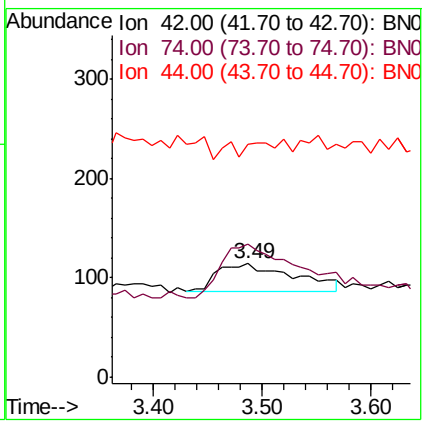


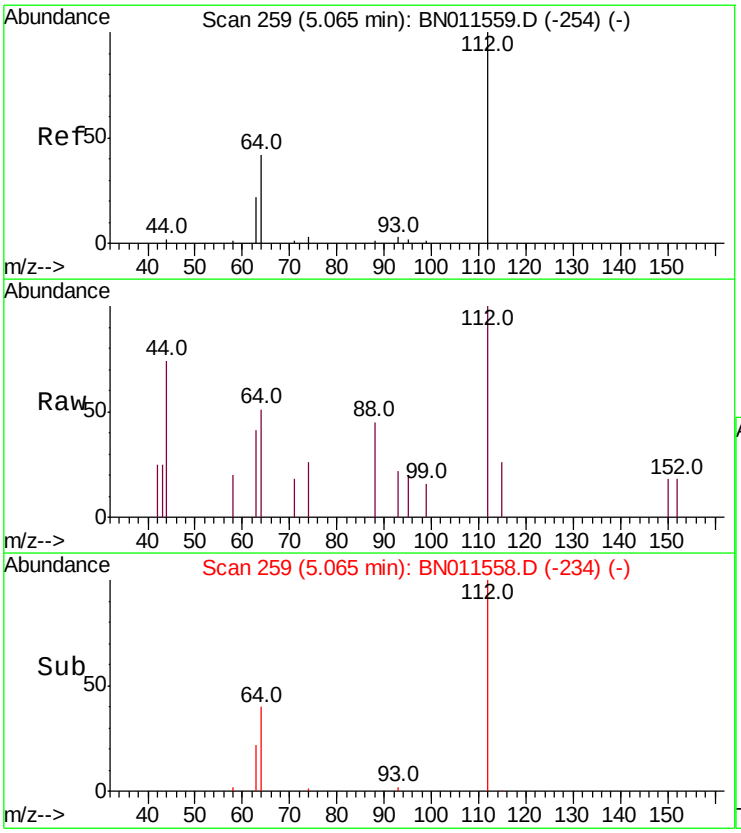
#3
n-Nitrosodimethylamine
Concen: 0.212 ng
RT: 3.49 min Scan# 63
Delta R.T. 0.02 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 136

Ion	Ratio	Lower	Upper
42	100		
74	184.6	169.0	253.4
44	17.6	21.6	32.4#

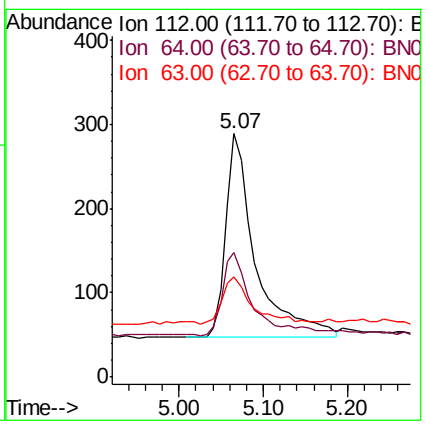


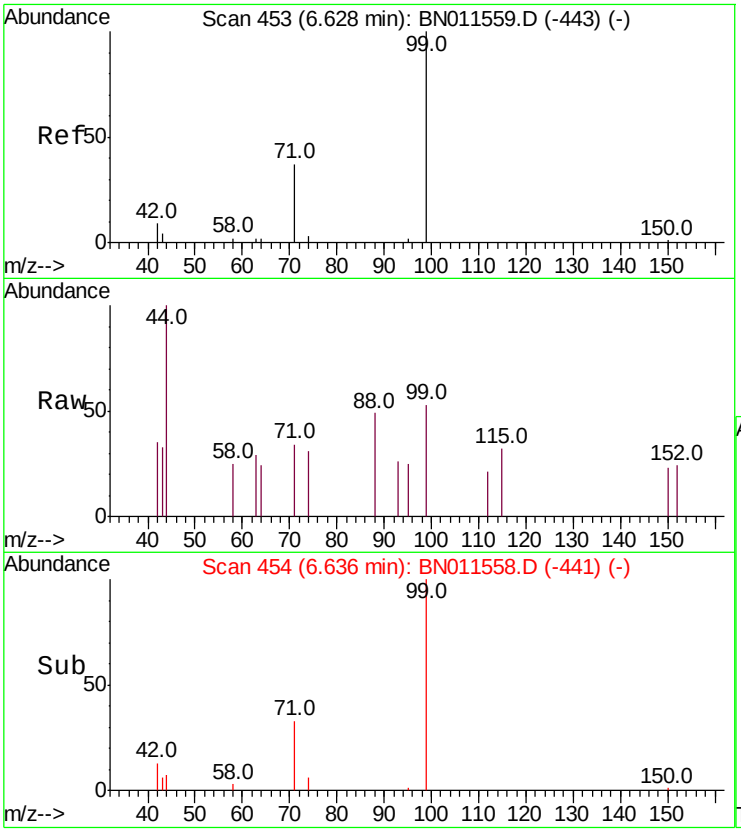


#4
2-Fluorophenol
Concen: 0.213 ng
RT: 5.07 min Scan# 259
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:112 Resp: 593

Ion	Ratio	Lower	Upper
112	100		
64	39.8	33.9	50.9
63	22.9	17.7	26.5



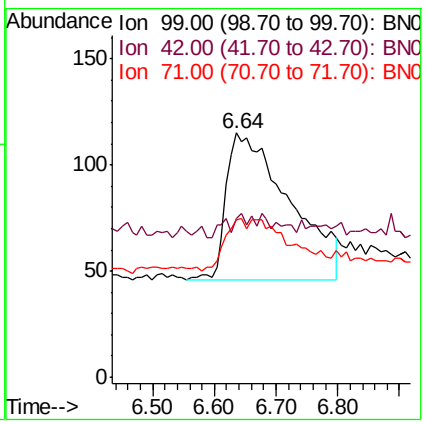


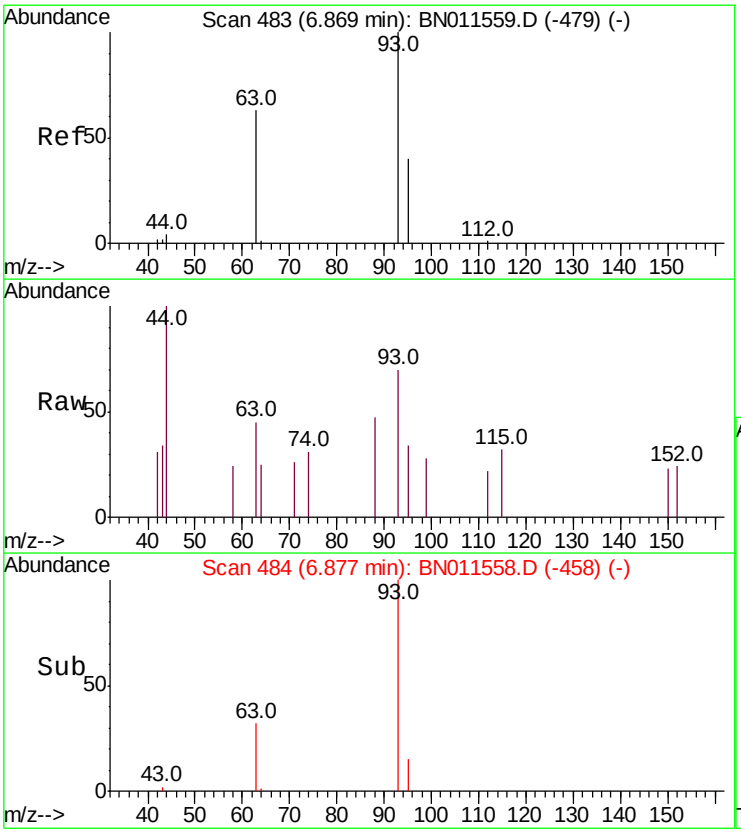
#5
Phenol-d6
Concen: 0.152 ng
RT: 6.64 min Scan# 454
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 489

Ion	Ratio	Lower	Upper
99	100		
42	2.0	9.0	13.4#
71	12.5	30.4	45.6#

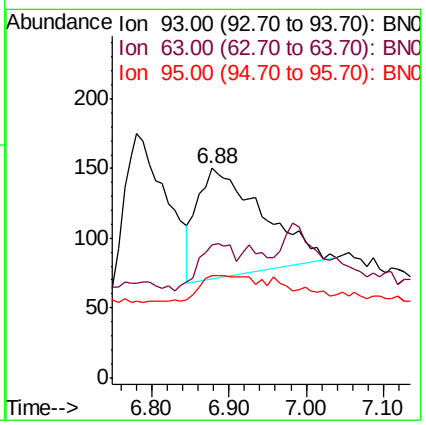


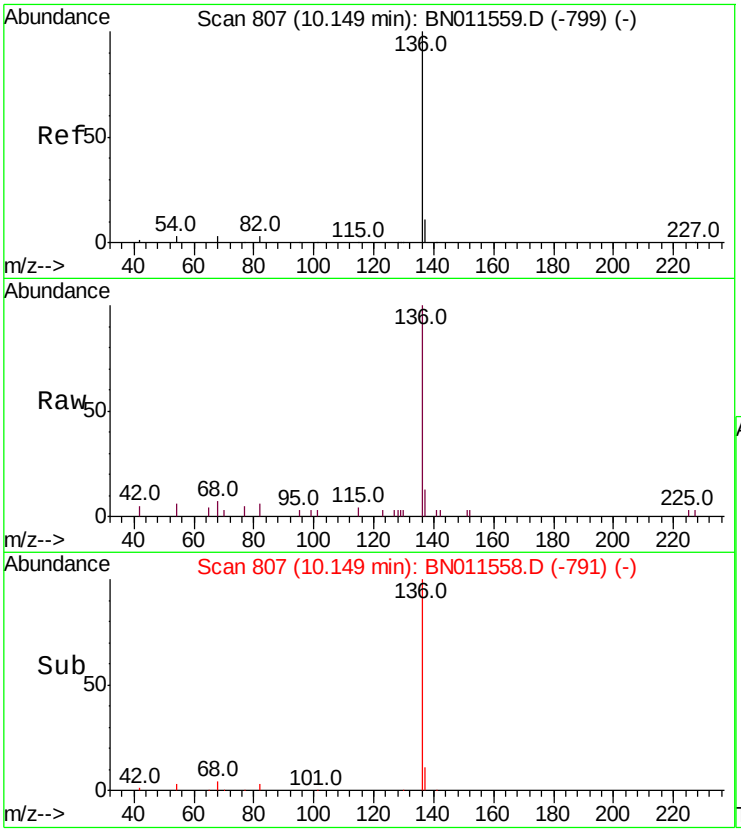


#6
bis(2-Chloroethyl)ether
Concen: 0.179 ng
RT: 6.88 min Scan# 484
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion: 93 Resp: 454

Ion	Ratio	Lower	Upper
93	100		
63	24.0	32.9	49.3#
95	22.5	25.3	37.9#



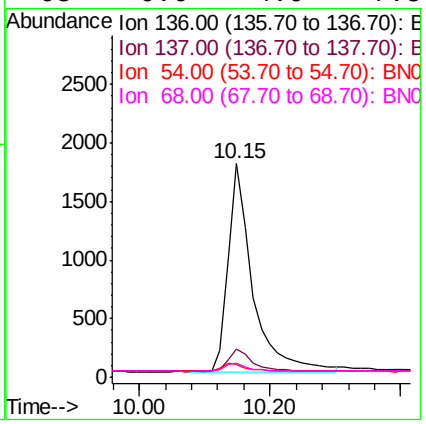


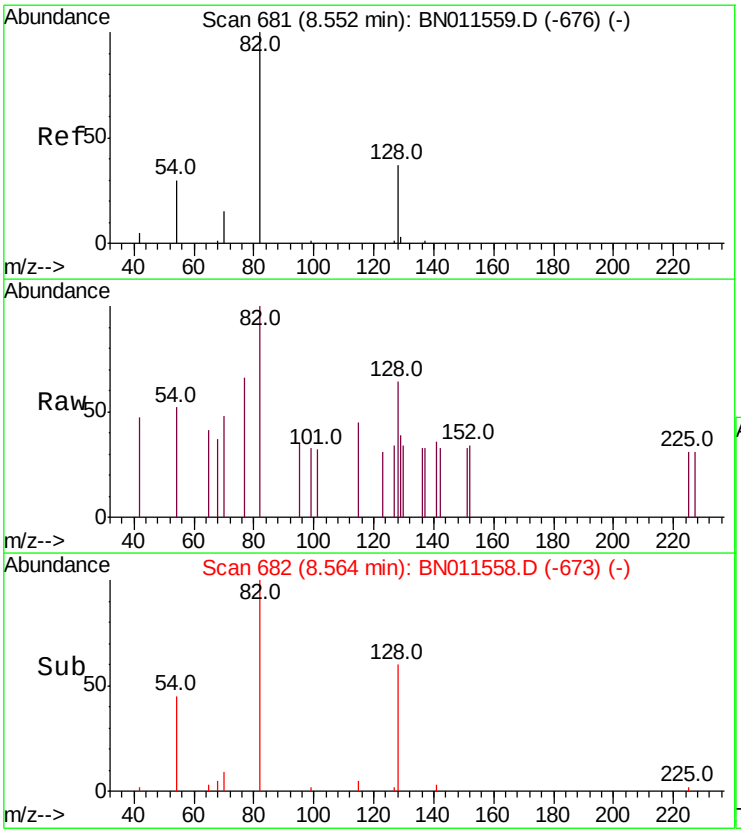
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.15 min Scan# 807
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 4569

Ion	Ratio	Lower	Upper
136	100		
137	13.4	11.0	16.4
54	5.7	4.3	6.5
68	6.6	4.9	7.3

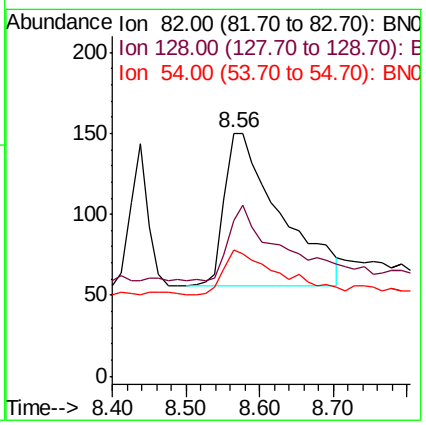


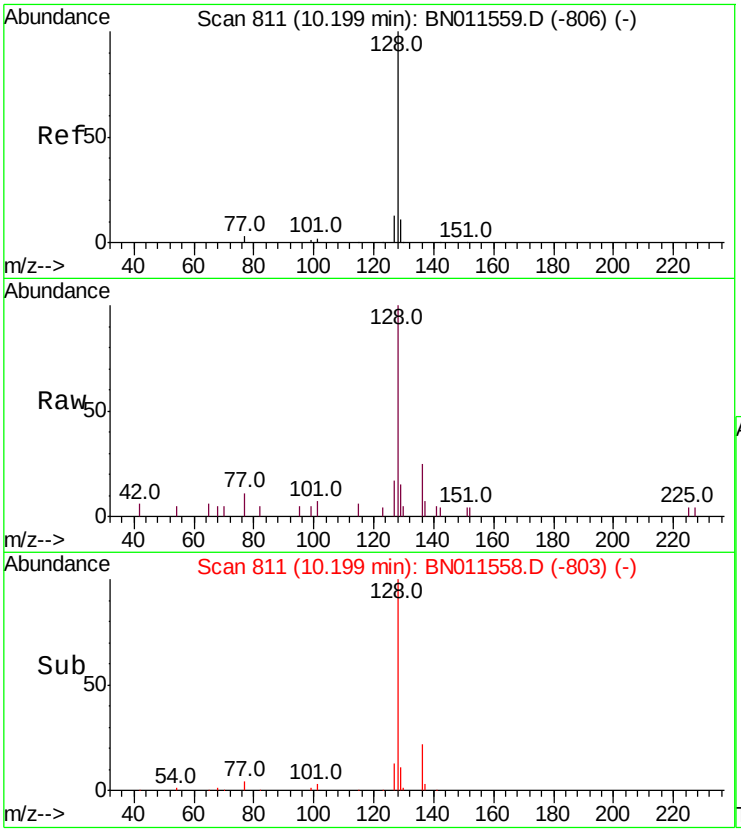


#8
Nitrobenzene-d5
Concen: 0.134 ng
RT: 8.56 min Scan# 682
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion: 82 Resp: 494

Ion	Ratio	Lower	Upper
82	100		
128	64.0	41.7	62.5#
54	52.0	34.4	51.6#



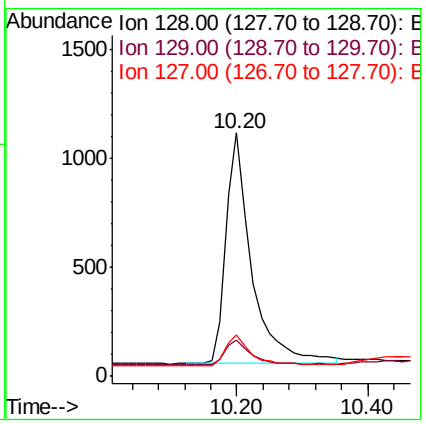


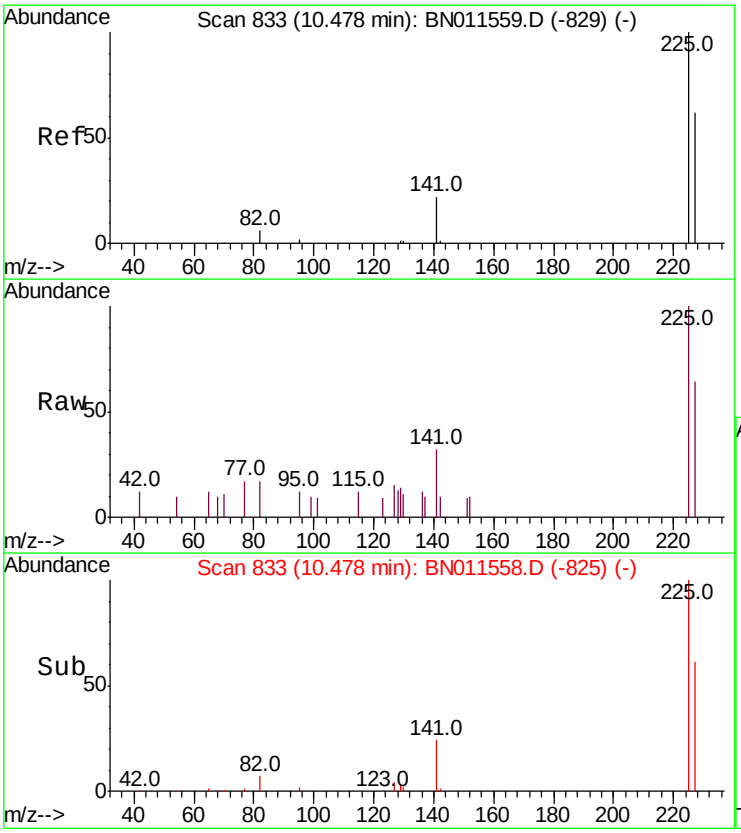
#9
Naphthalene
Concen: 0.217 ng
RT: 10.20 min Scan# 811
Delta R.T. -0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2883

Ion	Ratio	Lower	Upper
128	100		
129	15.0	10.8	16.2
127	17.2	12.3	18.5

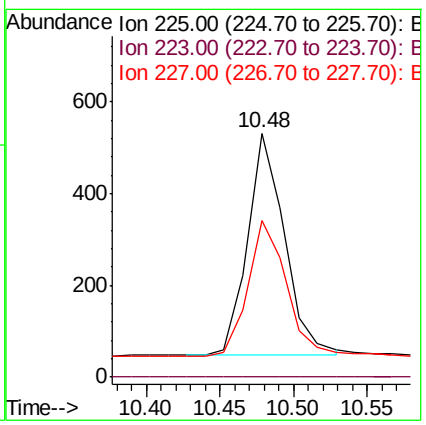


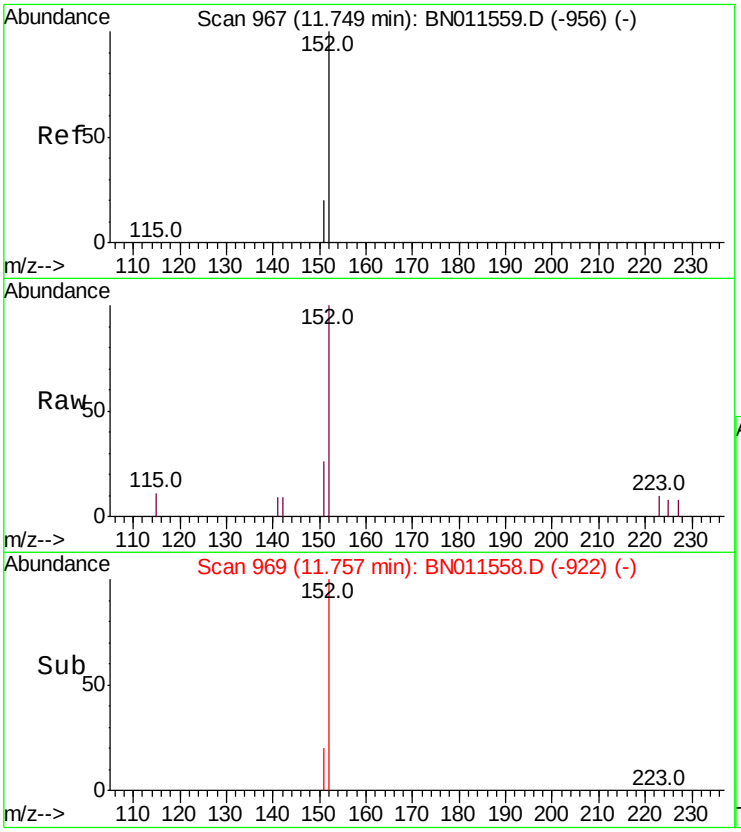


#10
Hexachlorobutadiene
Concen: 0.245 ng
RT: 10.48 min Scan# 833
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:225 Resp: 846

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.3	76.9



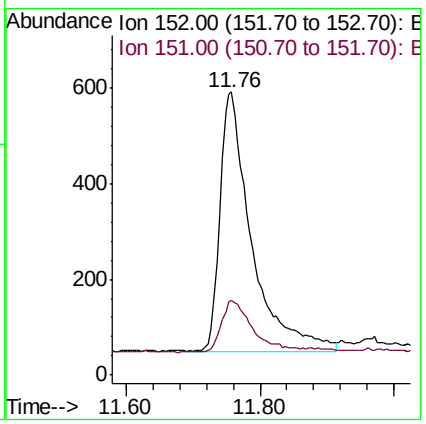


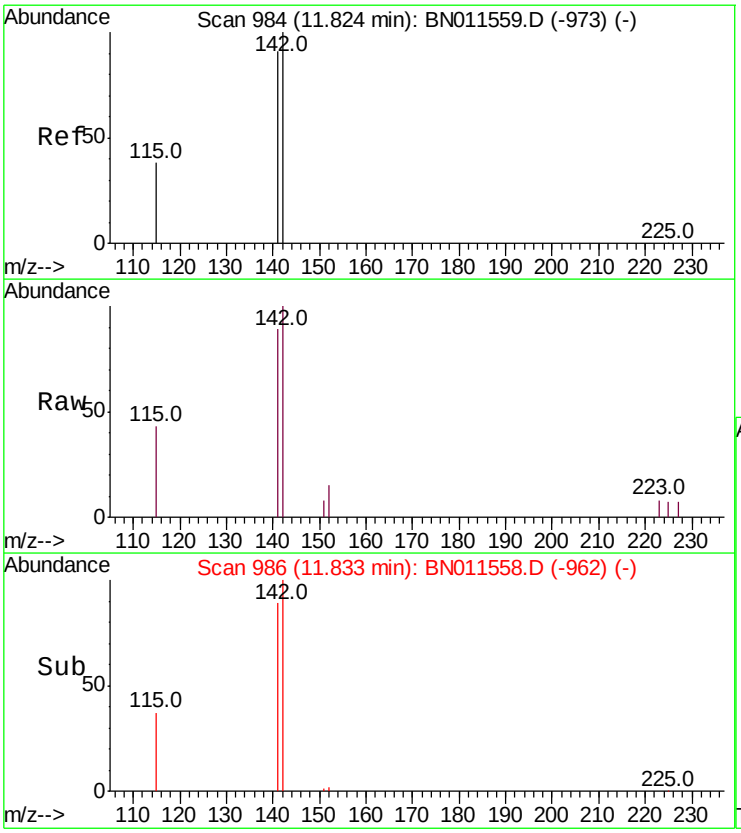
#11
2-Methylnaphthalene-d10
Concen: 0.210 ng
RT: 11.76 min Scan# 969
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1772

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8

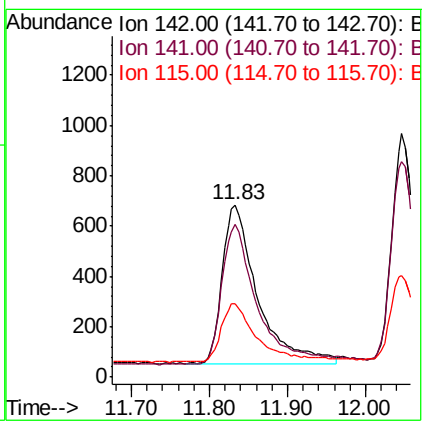


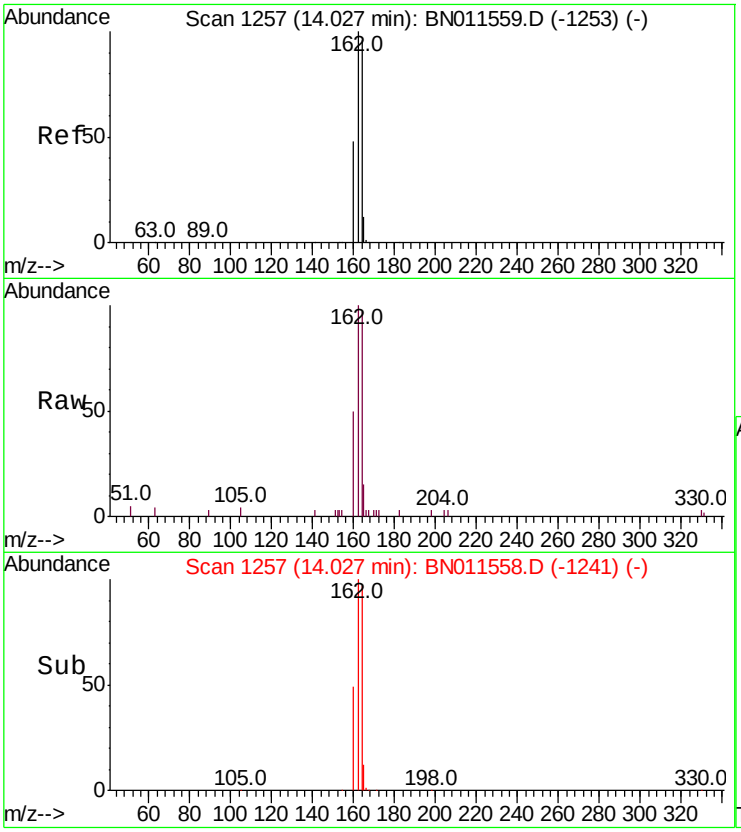


#12
2-Methylnaphthalene
Concen: 0.207 ng
RT: 11.83 min Scan# 986
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:142 Resp: 1979

Ion	Ratio	Lower	Upper
142	100		
141	88.9	73.0	109.6
115	42.8	33.4	50.0



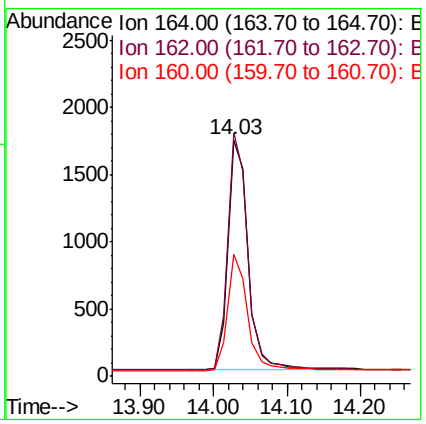


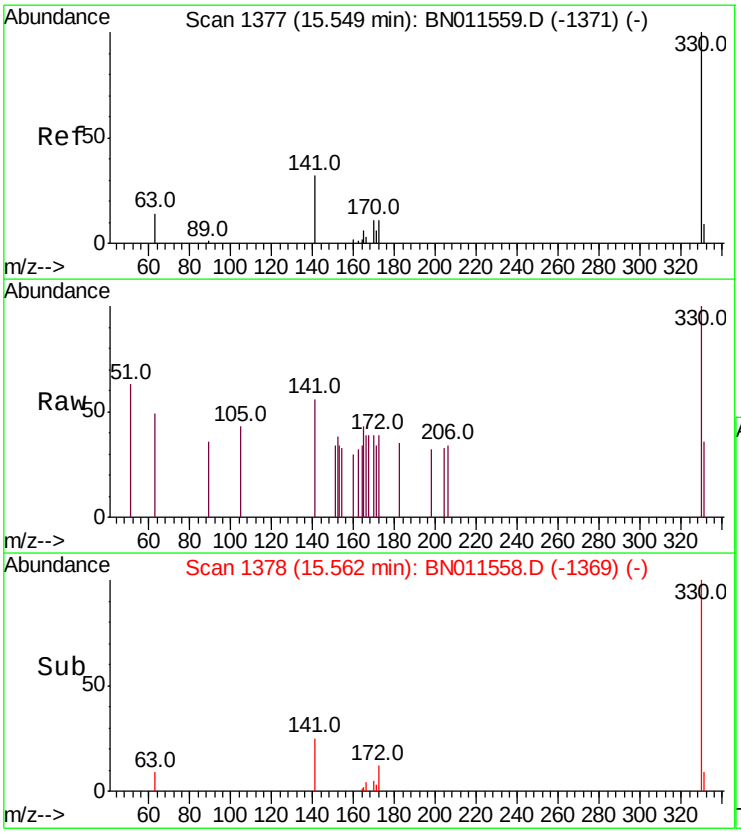
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.03 min Scan# 1257
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3260

Ion	Ratio	Lower	Upper
164	100		
162	103.0	83.7	125.5
160	51.4	41.1	61.7

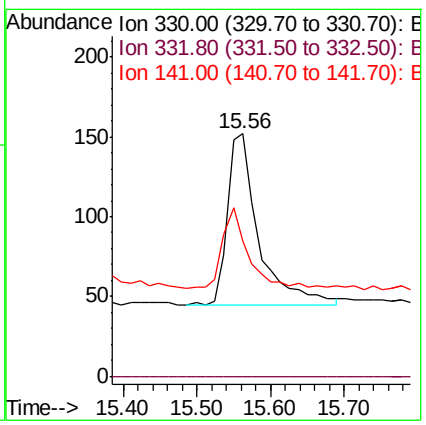


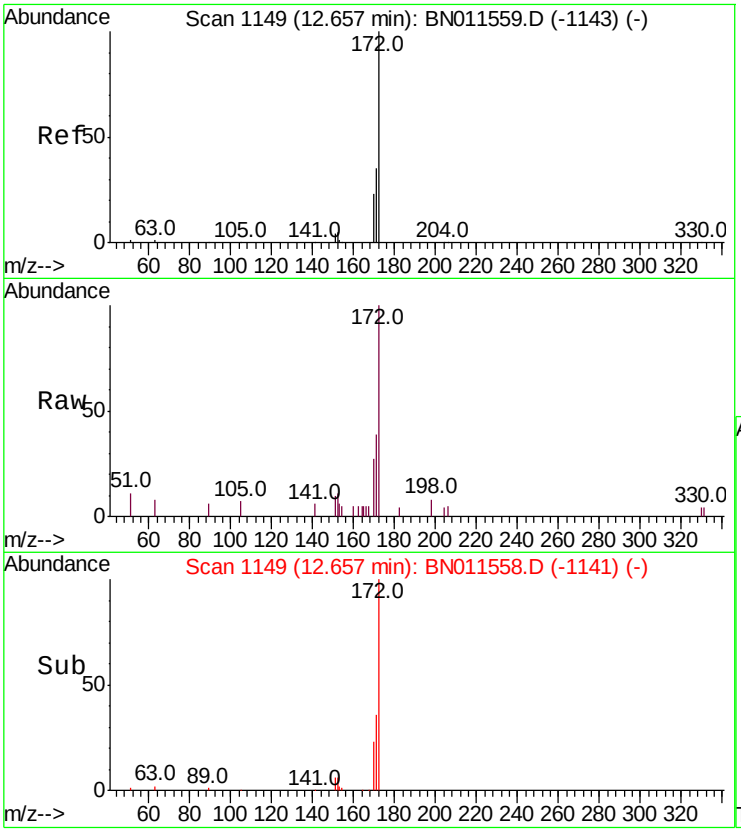


#14
2,4,6-Tribromophenol
Concen: 0.213 ng
RT: 15.56 min Scan# 1378
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:330 Resp: 312

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	40.1	34.6	52.0



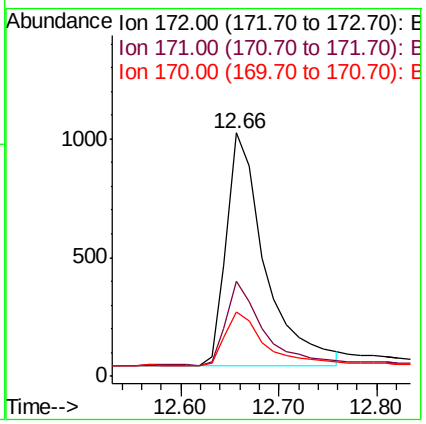


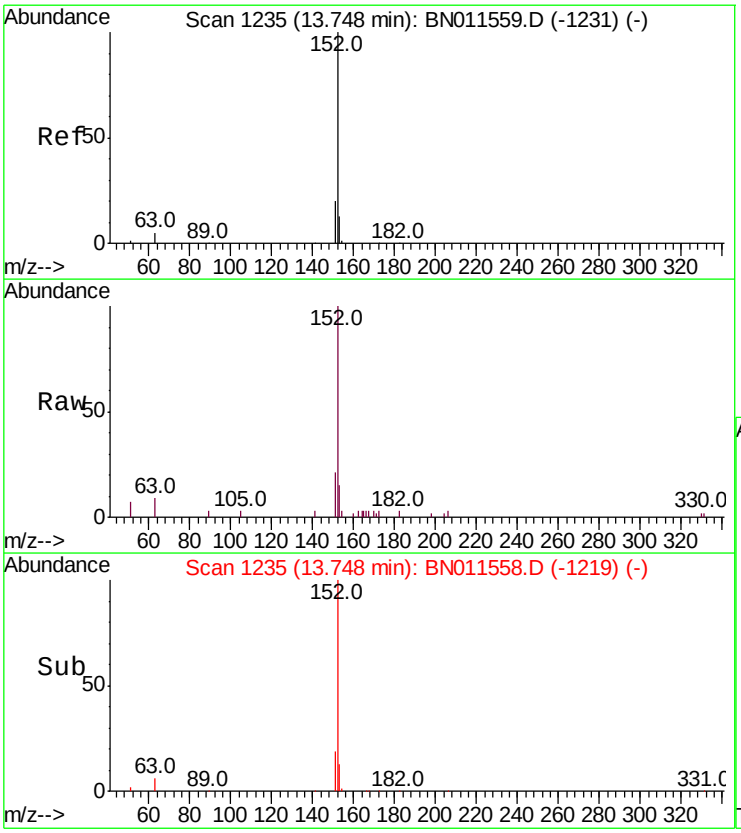
#15
2-Fluorobiphenyl
Concen: 0.187 ng
RT: 12.66 min Scan# 1149
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2686

Ion	Ratio	Lower	Upper
172	100		
171	38.8	29.4	44.0
170	26.6	20.1	30.1

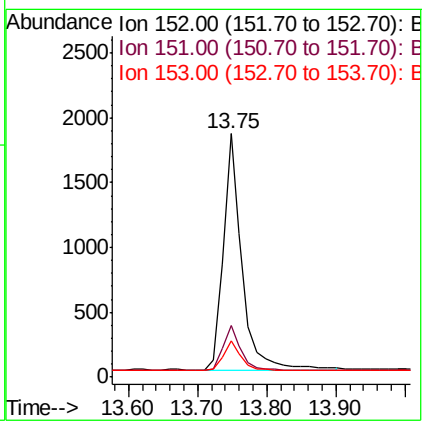


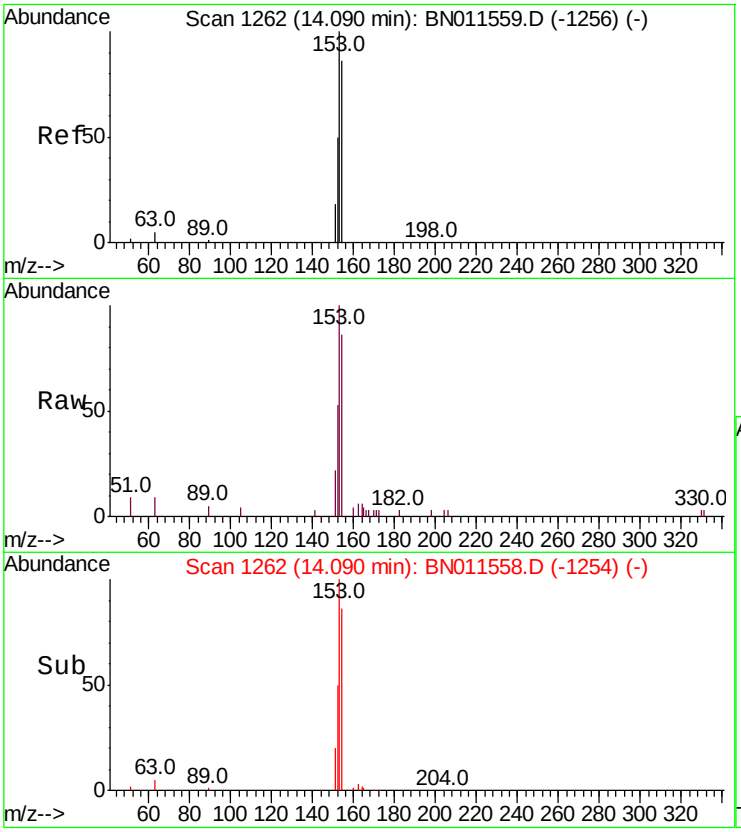


#16
Acenaphthylene
Concen: 0.214 ng
RT: 13.75 min Scan# 1235
Delta R.T. -0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:152 Resp: 3494

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.8	23.8
153	12.8	10.6	16.0



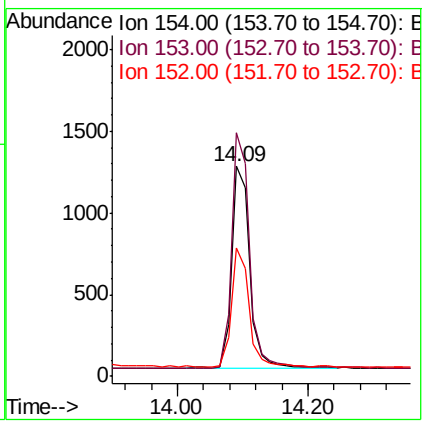


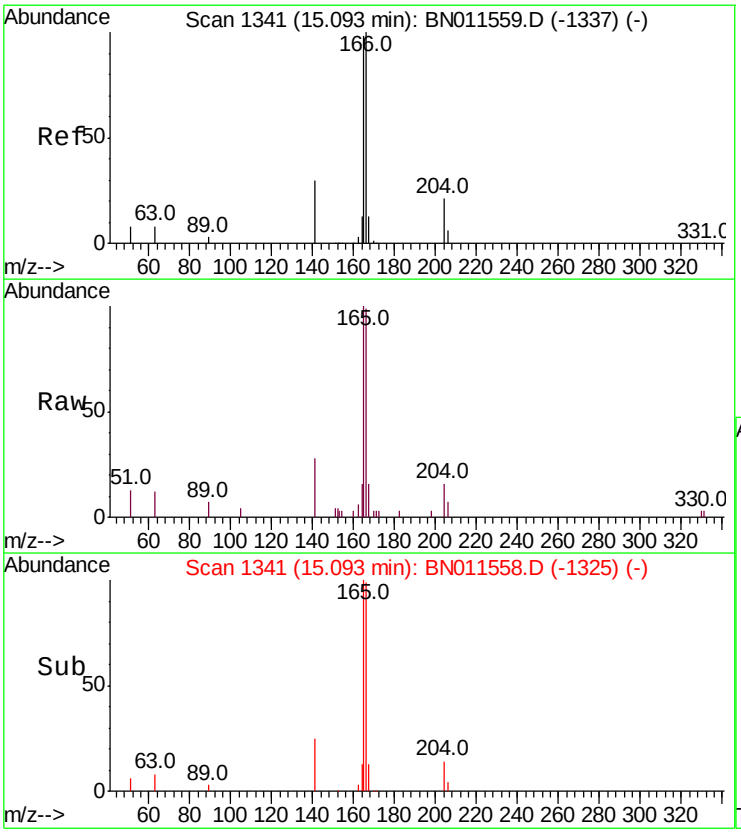
#17
Acenaphthene
Concen: 0.225 ng
RT: 14.09 min Scan# 1262
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2382

Ion	Ratio	Lower	Upper
154	100		
153	114.5	91.8	137.8
152	57.4	46.3	69.5

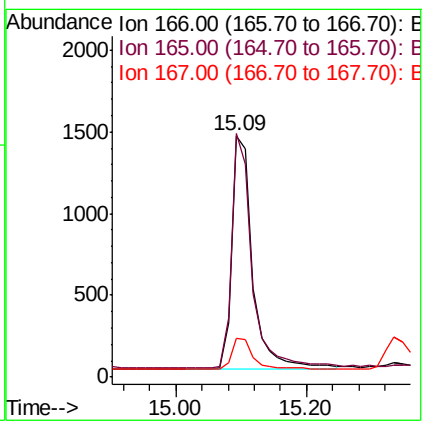


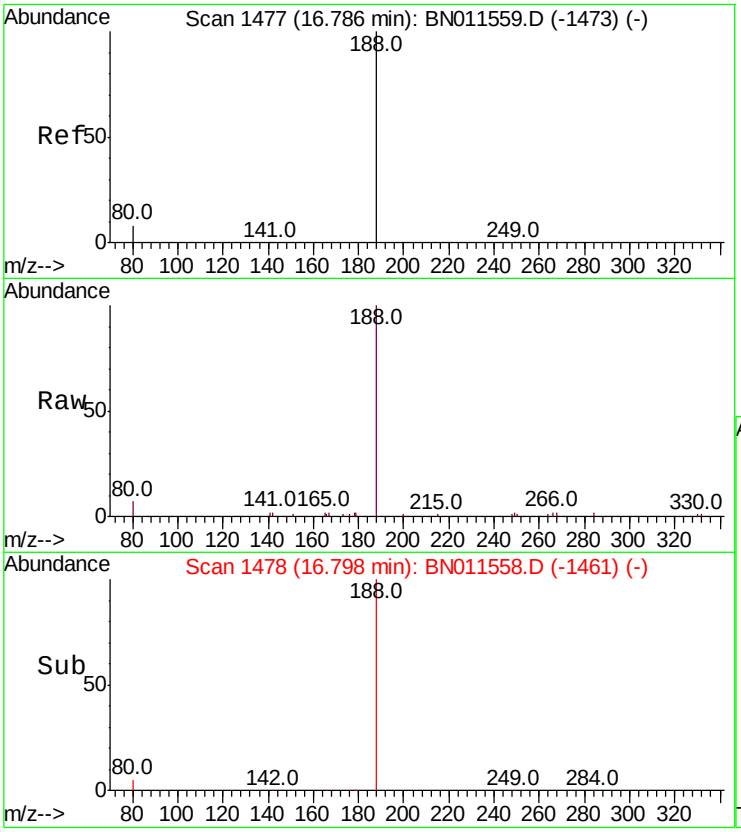


#18
Fluorene
Concen: 0.232 ng
RT: 15.09 min Scan# 1341
Delta R.T. -0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:166 Resp: 3154

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.2	117.2
167	13.4	10.7	16.1



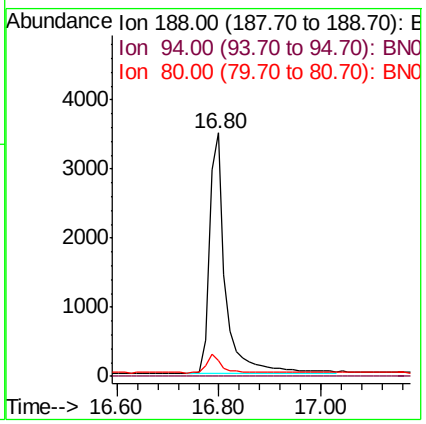


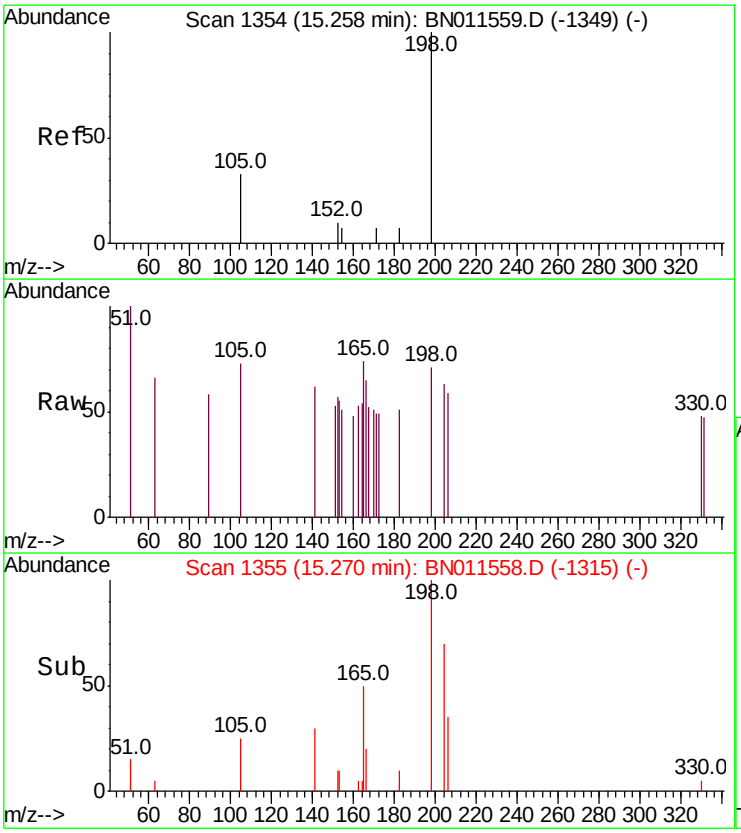
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.80 min Scan# 1478
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 7594

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.7	7.6	11.4#

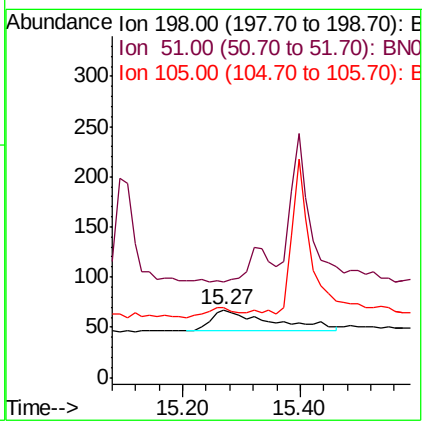


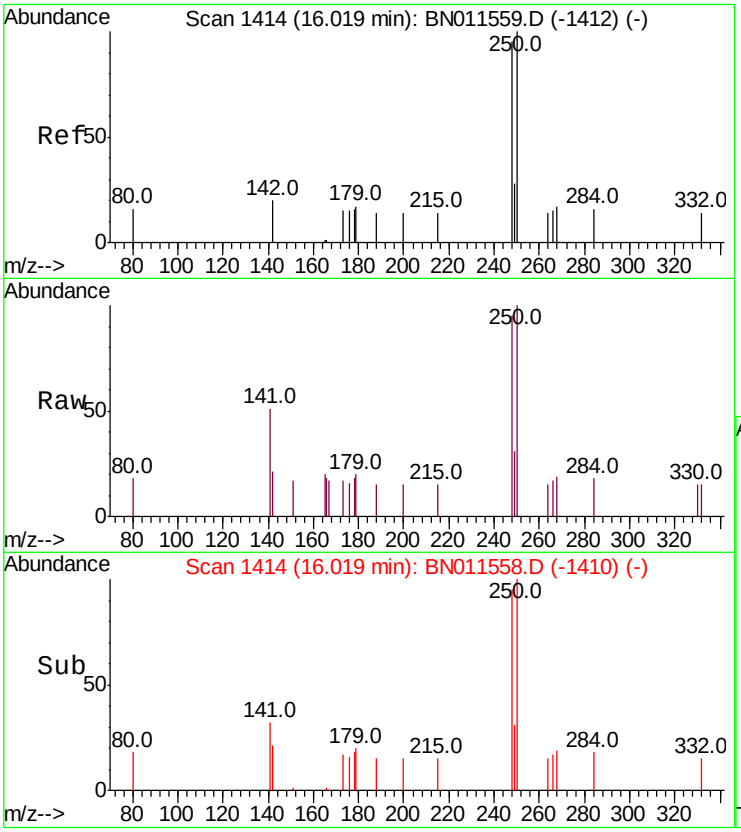


#20
4,6-Dinitro-2-methylphenol
Concen: 0.165 ng
RT: 15.27 min Scan# 1355
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	141.8	89.4	134.2#
105	103.0	70.6	105.8



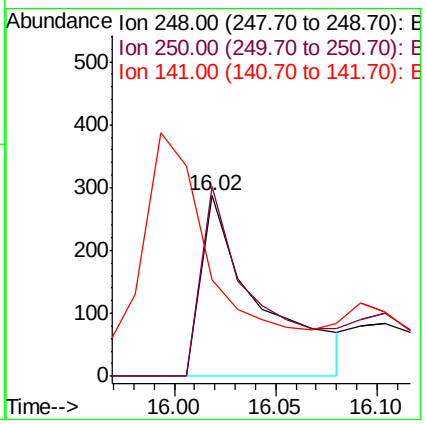


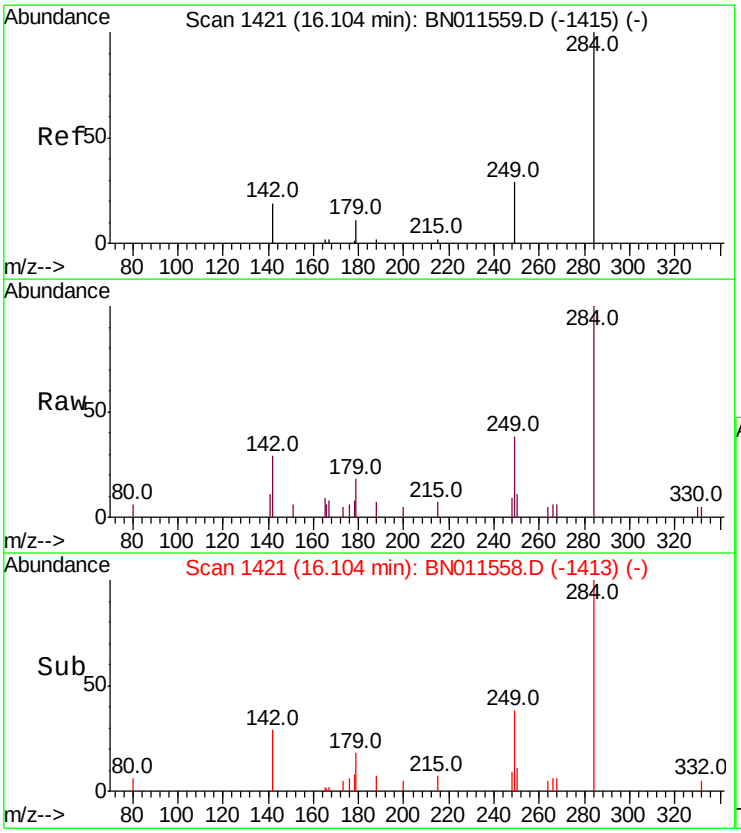
#21
4-Bromophenyl-phenylether
Concen: 0.092 ng
RT: 16.02 min Scan# 1414
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 577

Ion	Ratio	Lower	Upper
248	100		
250	105.2	83.8	125.8
141	53.3	41.0	61.6

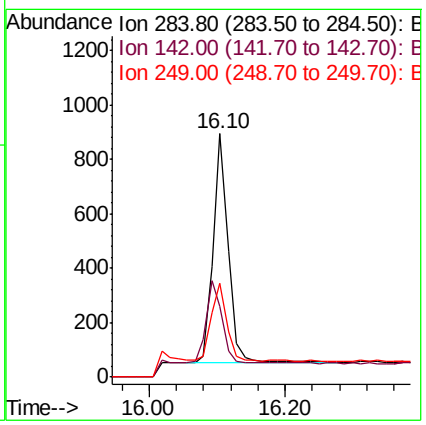


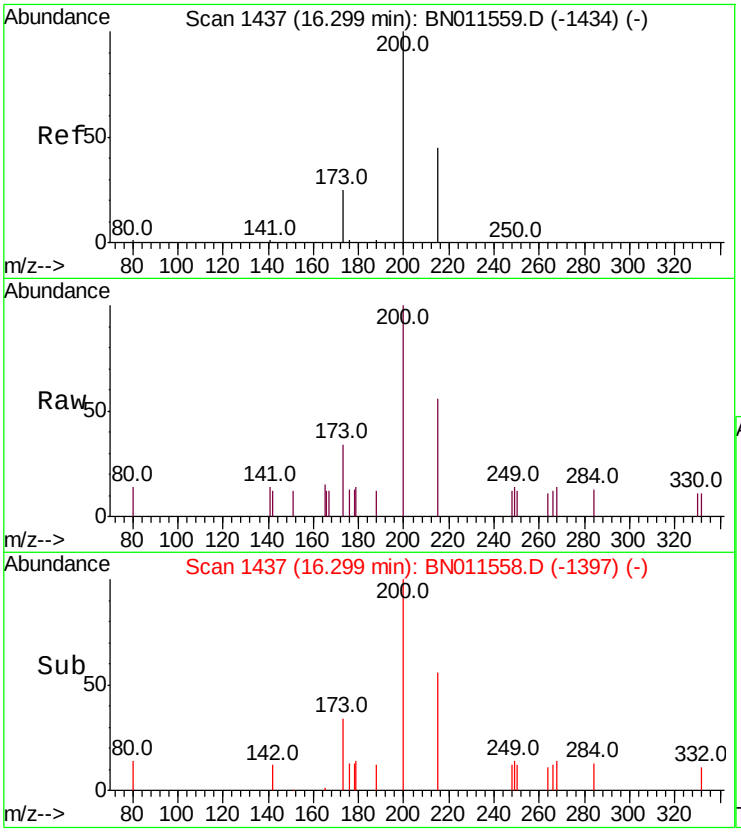


#22
Hexachlorobenzene
Concen: 0.225 ng
RT: 16.10 min Scan# 1421
Delta R.T. -0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:284 Resp: 1276

Ion	Ratio	Lower	Upper
284	100		
142	38.1	29.7	44.5
249	35.3	26.8	40.2



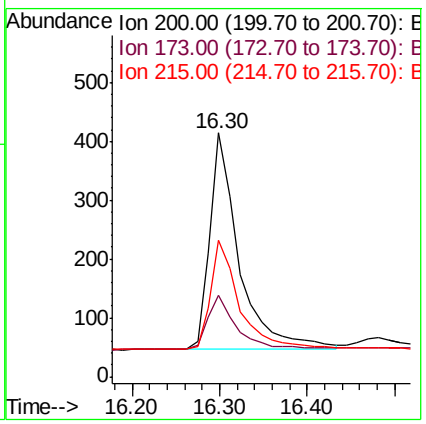


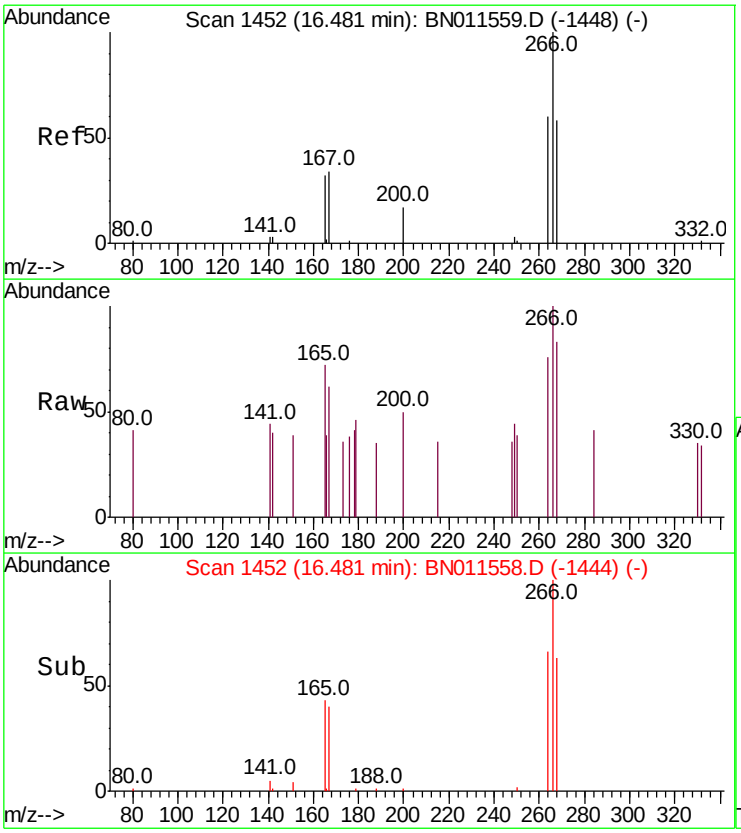
#23
Atrazine
Concen: 0.228 ng
RT: 16.30 min Scan# 1437
Delta R.T. -0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 844

Ion	Ratio	Lower	Upper
200	100		
173	33.6	27.7	41.5
215	56.0	41.5	62.3

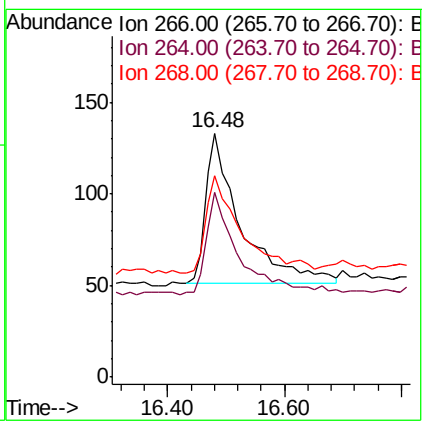


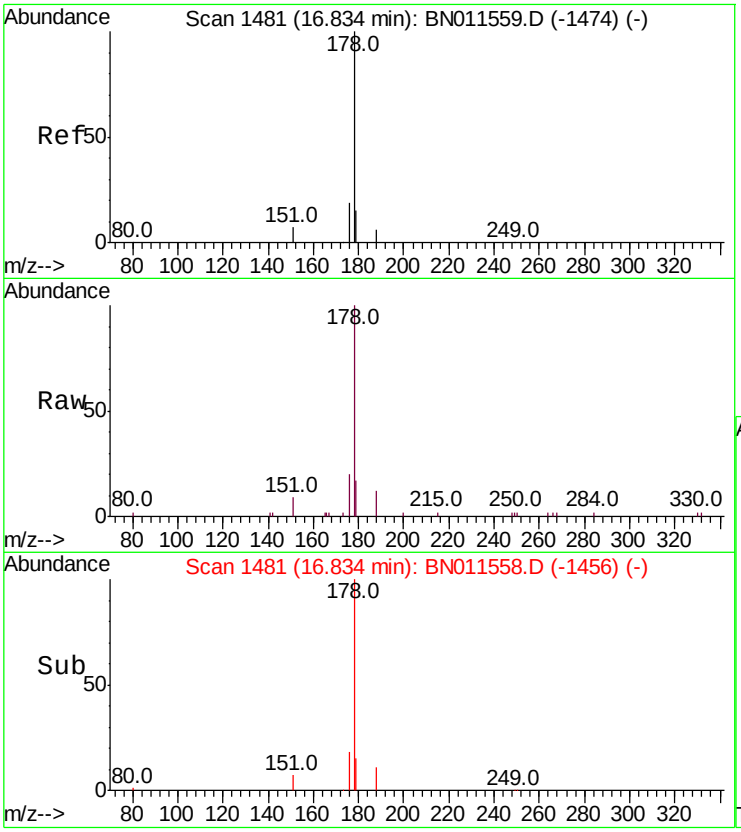


#24
Pentachlorophenol
Concen: 0.196 ng
RT: 16.48 min Scan# 1452
Delta R.T. -0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:266 Resp: 340

Ion	Ratio	Lower	Upper
266	100		
264	64.7	48.7	73.1
268	65.6	51.0	76.6



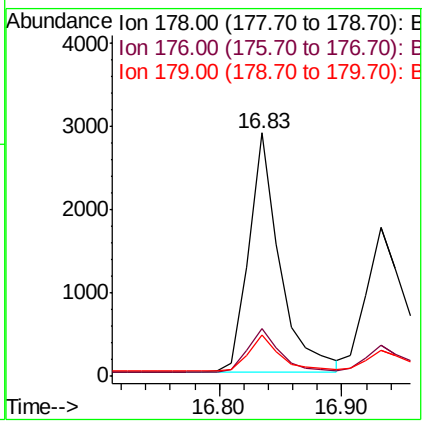


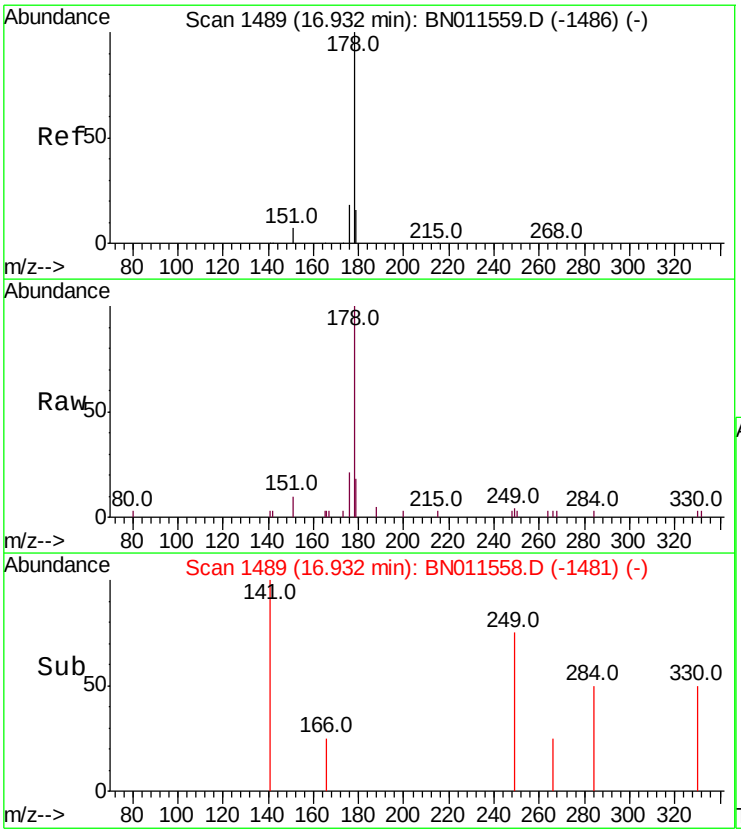
#25
Phenanthrene
Concen: 0.209 ng
RT: 16.83 min Scan# 1481
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 5059

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.4
179	15.8	12.3	18.5

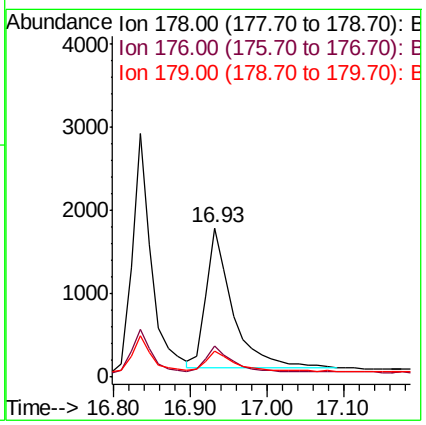


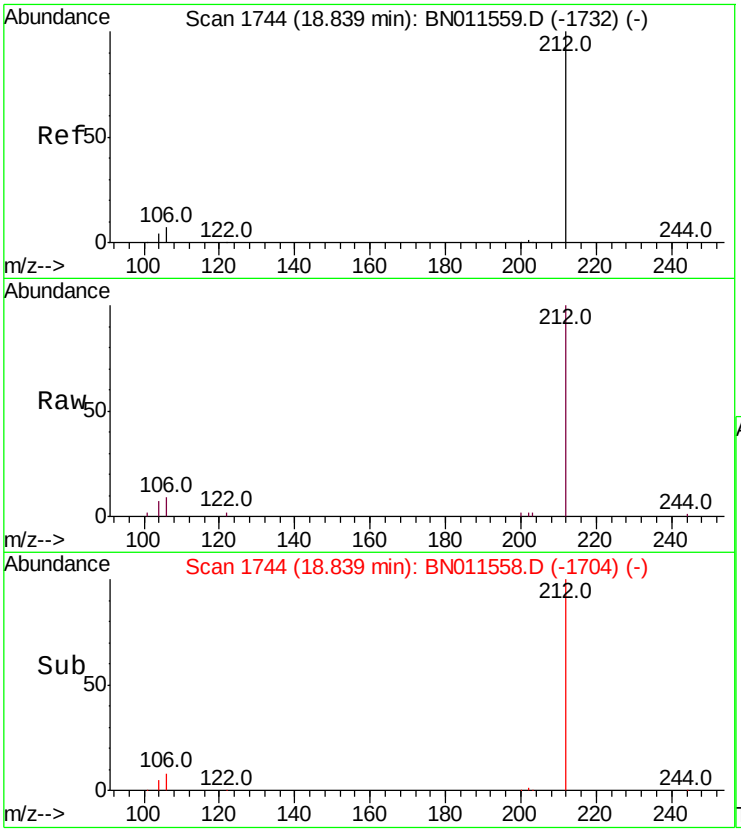


#26
Anthracene
Concen: 0.195 ng
RT: 16.93 min Scan# 1489
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:178 Resp: 4019

Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.4	21.6
179	15.4	12.9	19.3



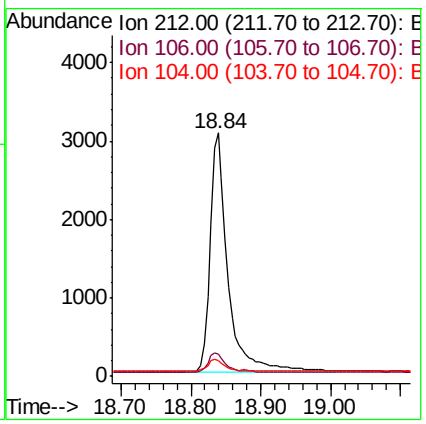


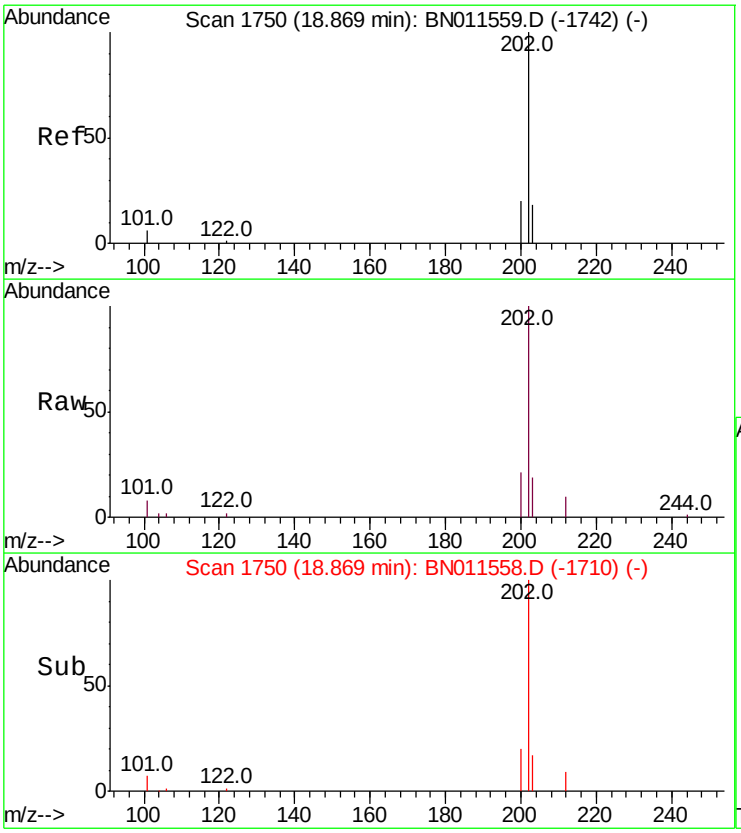
#27
Fluoranthene-d10
Concen: 0.237 ng
RT: 18.84 min Scan# 1744
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 5495

Ion	Ratio	Lower	Upper
212	100		
106	8.0	6.2	9.2
104	5.0	3.8	5.6

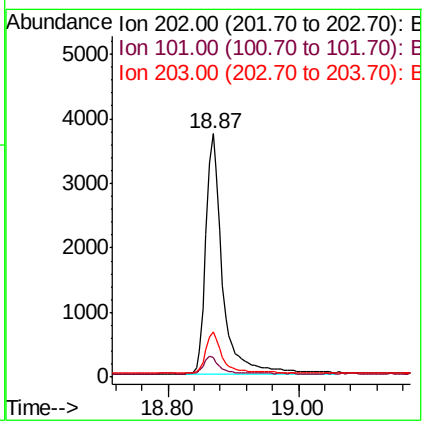


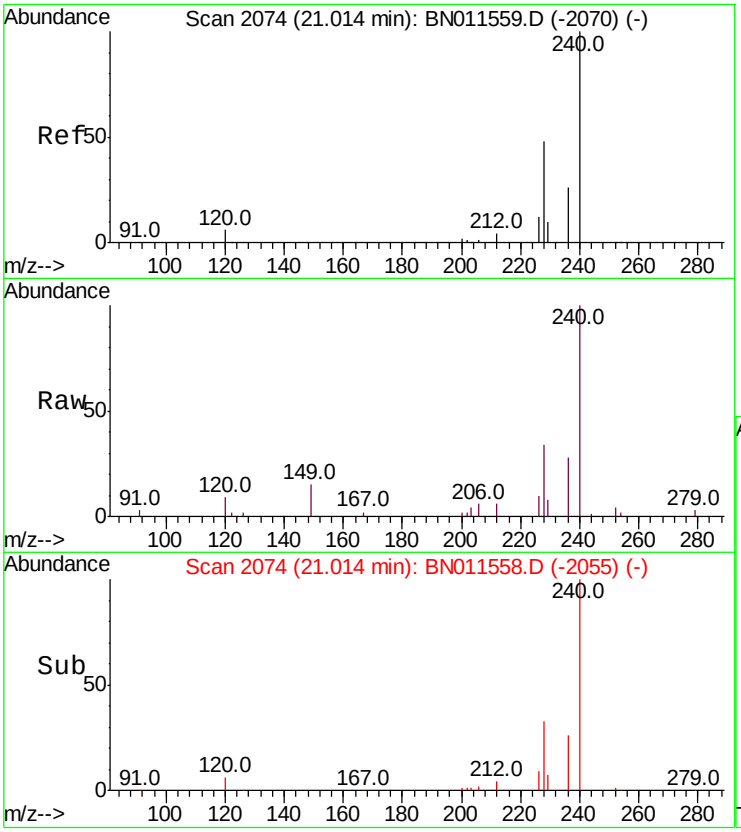


#28
Fluoranthene
Concen: 0.229 ng
RT: 18.87 min Scan# 1750
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:202 Resp: 6553

Ion	Ratio	Lower	Upper
202	100		
101	6.9	5.2	7.8
203	16.6	13.6	20.4



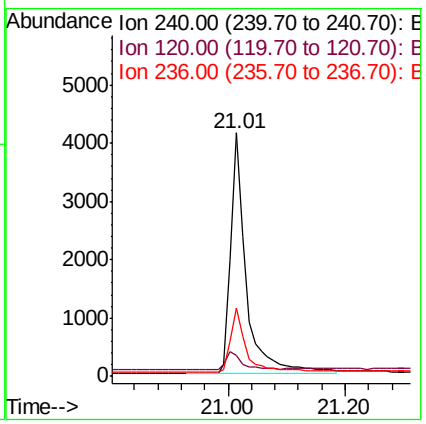


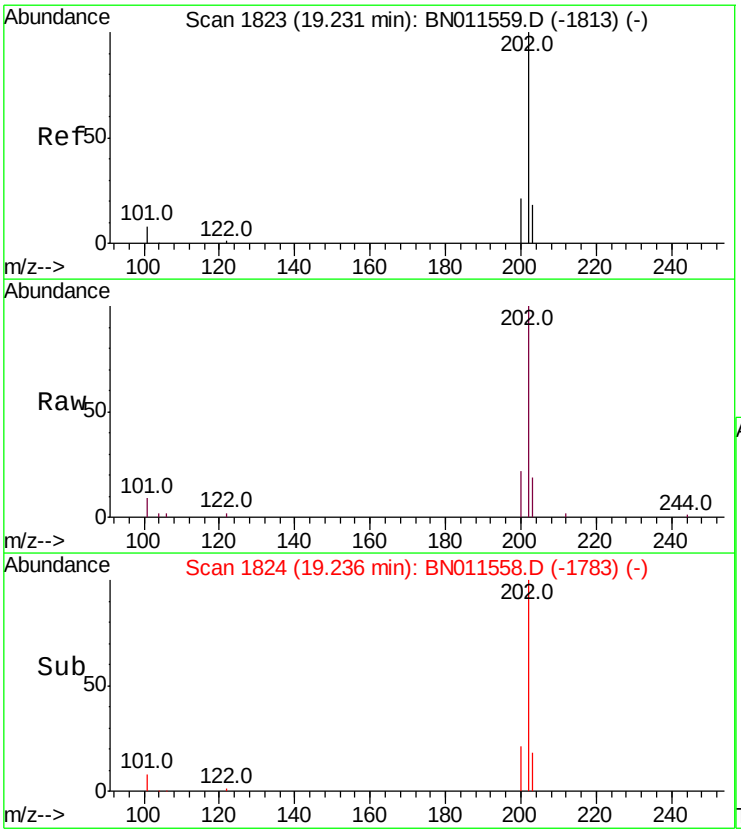
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.01 min Scan# 2074
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 7495

Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.4	11.0
236	28.0	22.3	33.5

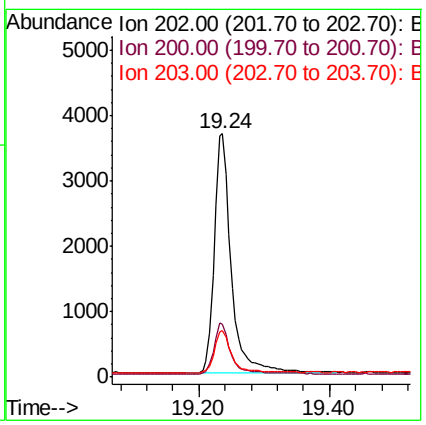


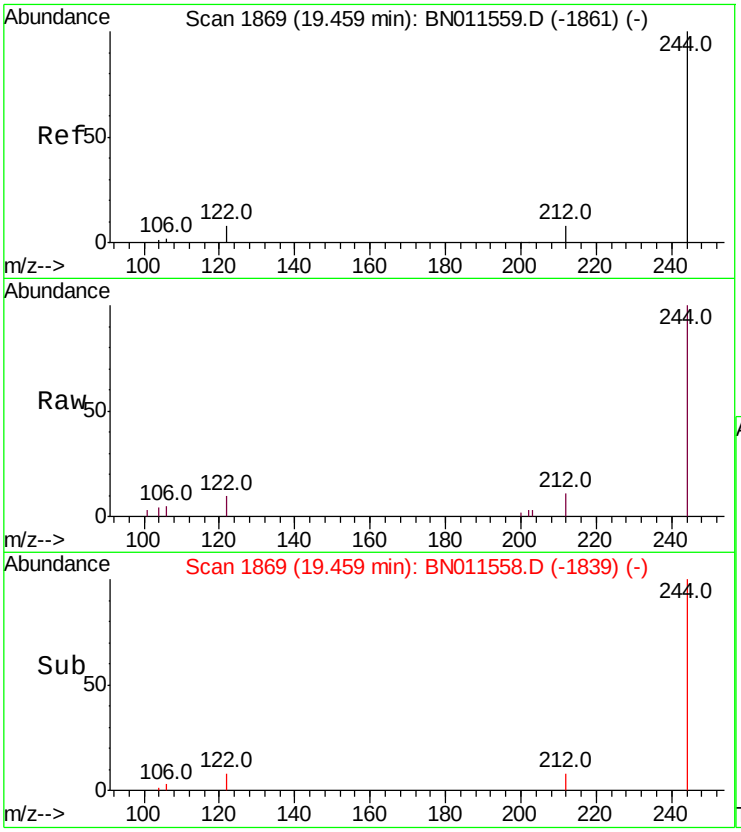


#30
Pyrene
Concen: 0.270 ng
RT: 19.24 min Scan# 1824
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:202 Resp: 6669

Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.6	25.0
203	17.9	14.2	21.2



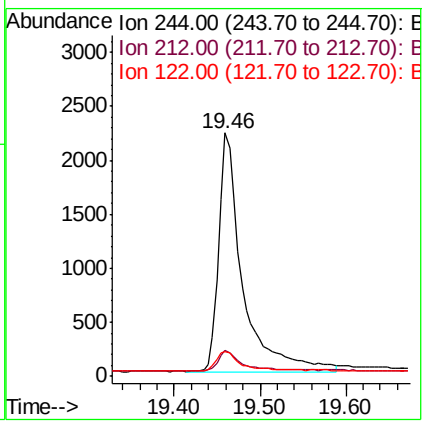


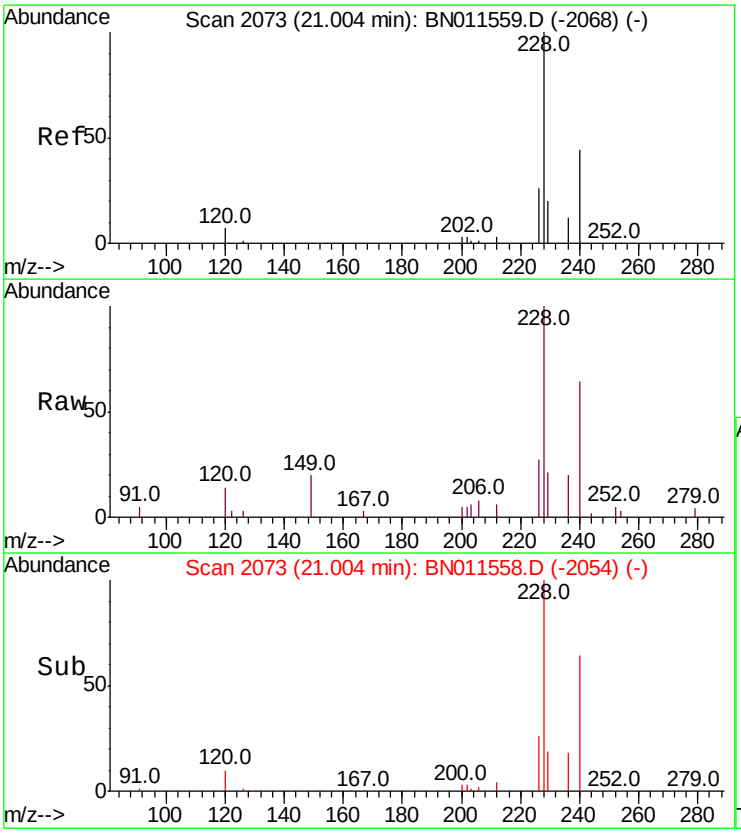
#31
Terphenyl-d14
Concen: 0.258 ng
RT: 19.46 min Scan# 1869
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 4273

Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.2	12.4
122	10.1	8.0	12.0

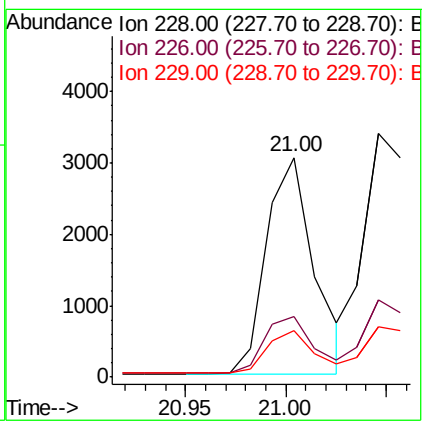


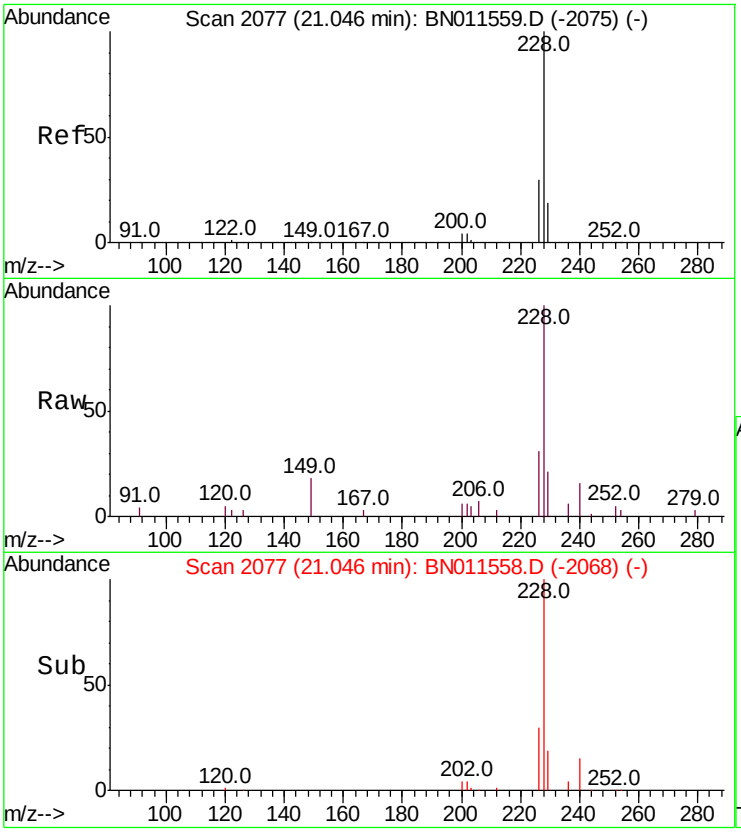


#32
Benzo(a)anthracene
Concen: 0.219 ng
RT: 21.00 min Scan# 2073
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:228 Resp: 5005

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.2	33.2
229	20.9	16.9	25.3



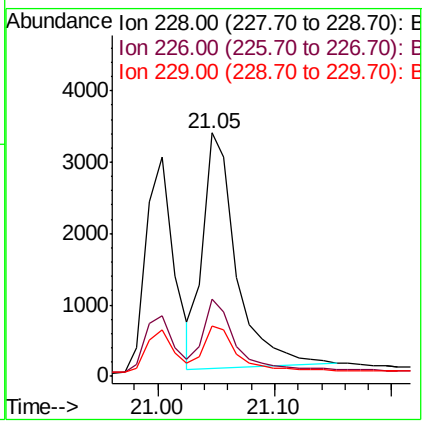


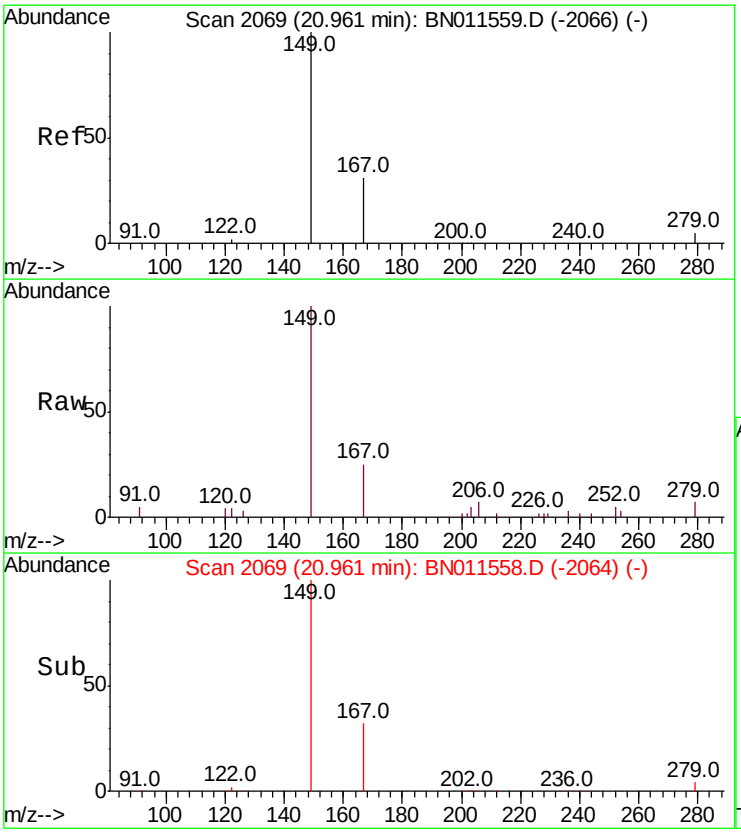
#33
Chrysene
Concen: 0.251 ng
RT: 21.05 min Scan# 2077
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 6550

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.5	36.7
229	20.7	16.2	24.2

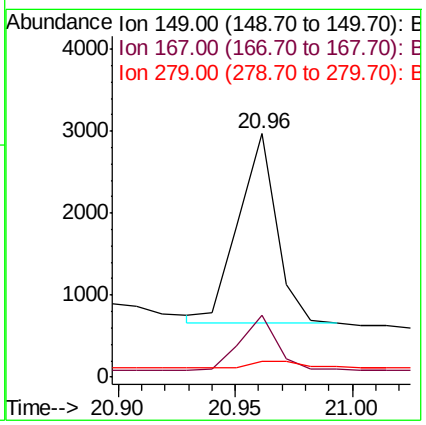


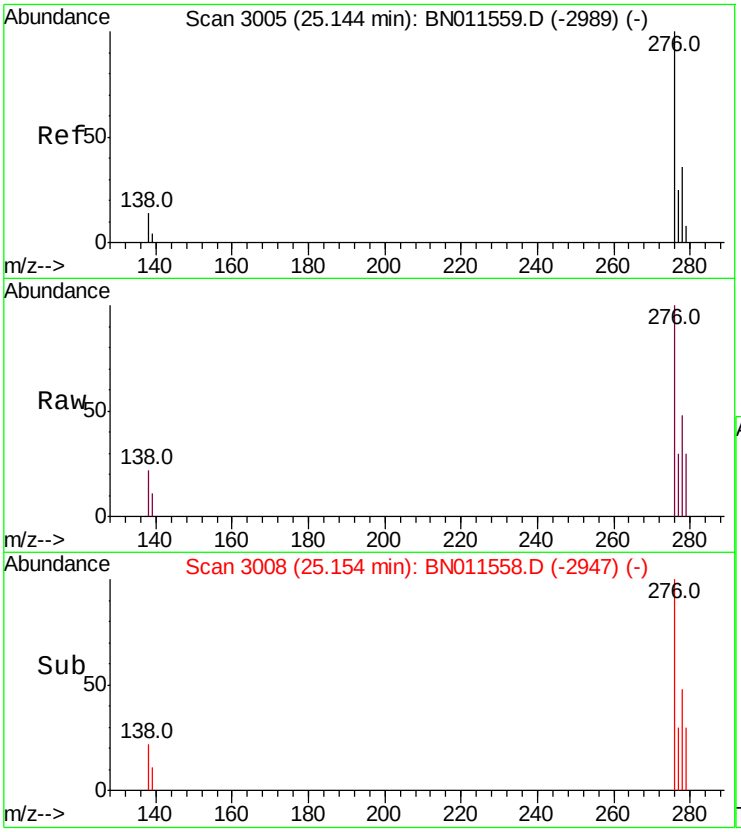


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.318 ng
RT: 20.96 min Scan# 2069
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:149 Resp: 2592

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.8	34.2
279	4.5	4.2	6.2



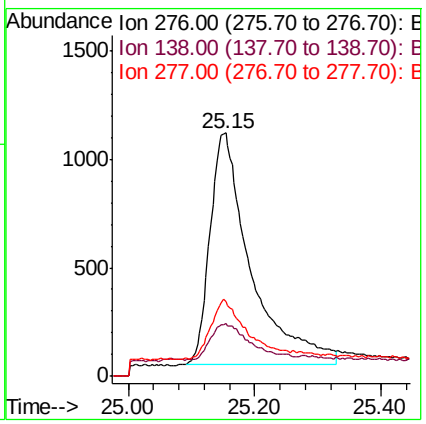


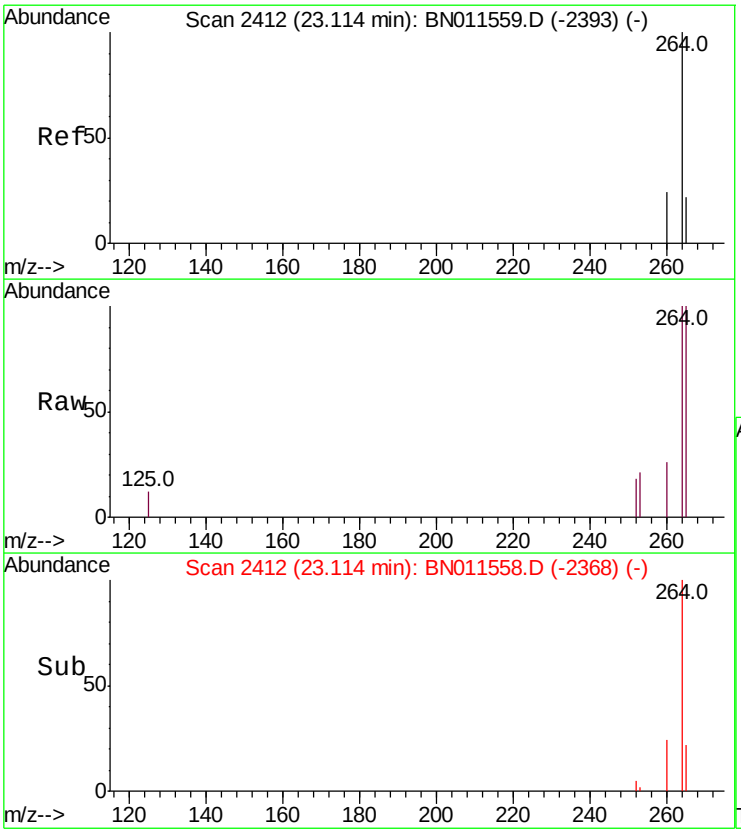
#35
Indeno(1,2,3-cd)pyrene
Concen: 0.150 ng
RT: 25.15 min Scan# 3008
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 4782

Ion	Ratio	Lower	Upper
276	100		
138	13.0	11.6	17.4
277	20.2	18.2	27.4

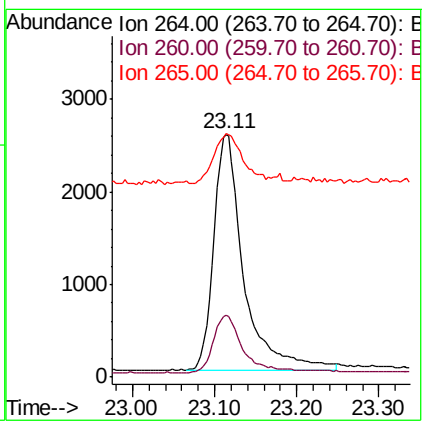


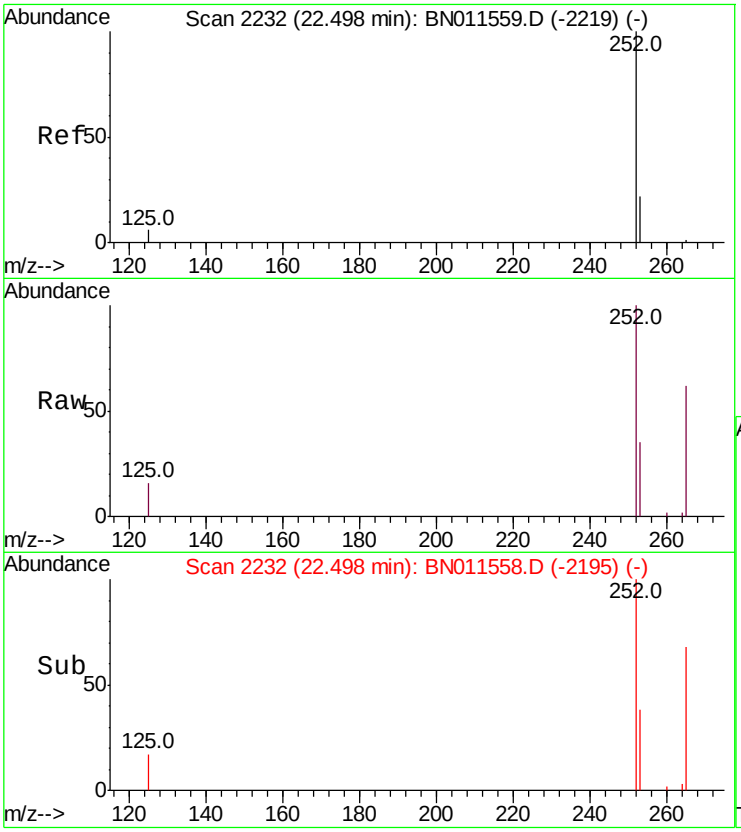


#36
Perylene-d12
Concen: 0.400 ng
RT: 23.11 min Scan# 2412
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:264 Resp: 6430

Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.3	30.5
265	100.2	96.1	144.1



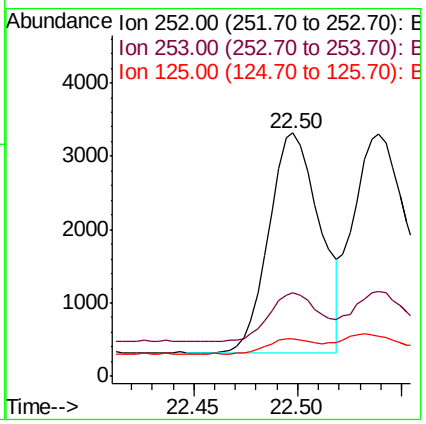


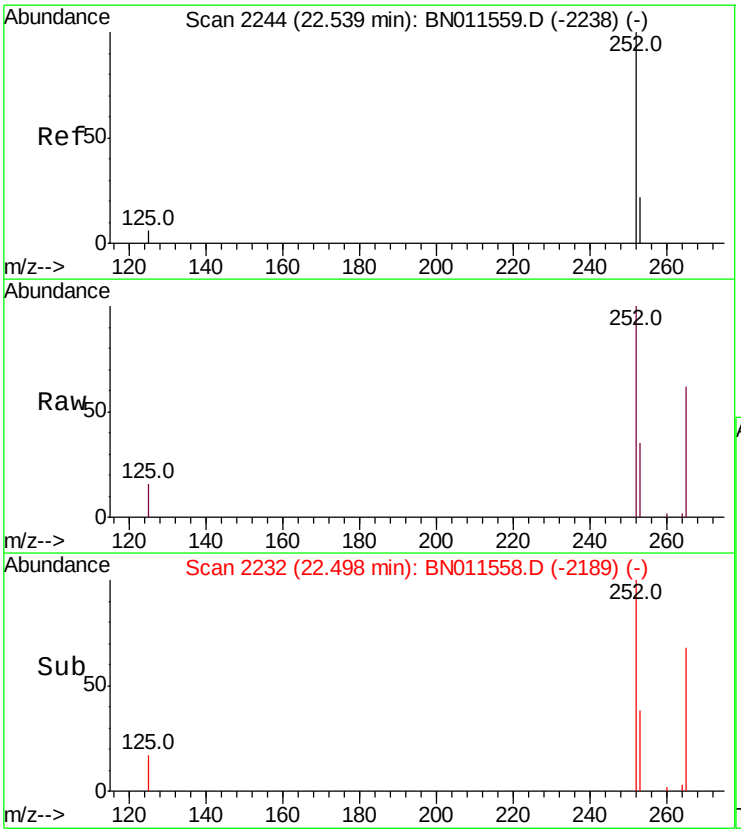
#37
Benzo(b)fluoranthene
Concen: 0.201 ng
RT: 22.50 min Scan# 2232
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 5157

Ion	Ratio	Lower	Upper
252	100		
253	34.5	25.5	38.3
125	15.6	10.2	15.4#

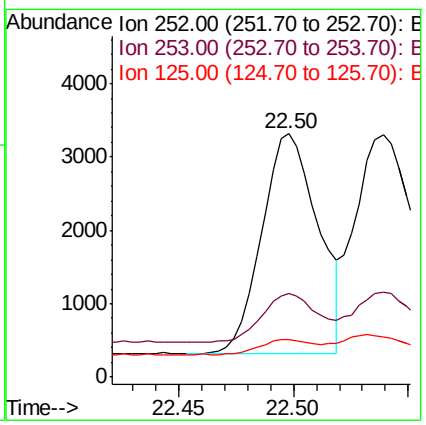


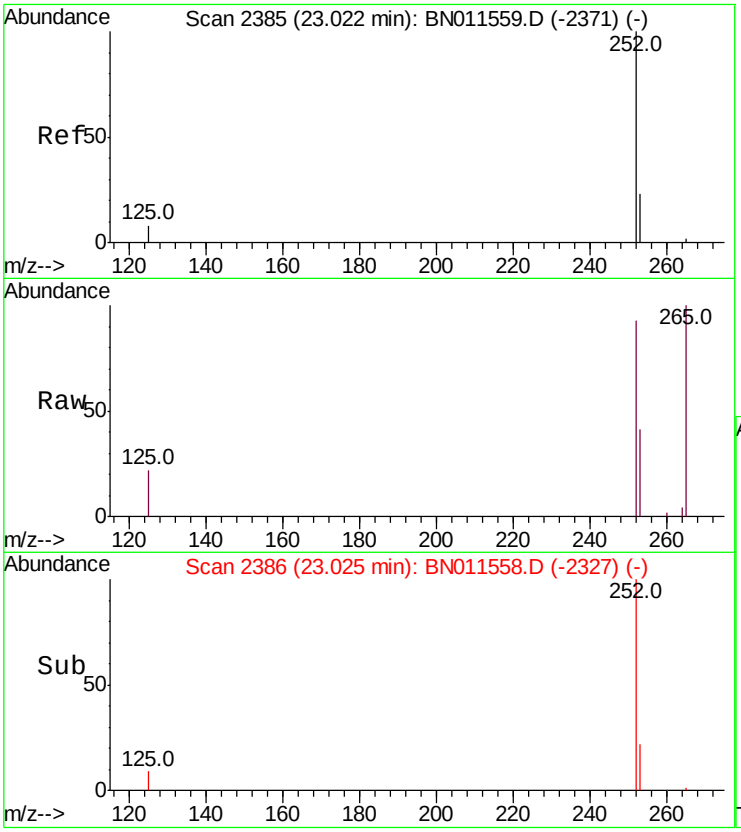


#38
Benzo(k)fluoranthene
Concen: 0.193 ng
RT: 22.50 min Scan# 2232
Delta R.T. -0.04 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:252 Resp: 5123

Ion	Ratio	Lower	Upper
252	100		
253	34.5	25.8	38.6
125	15.6	10.8	16.2



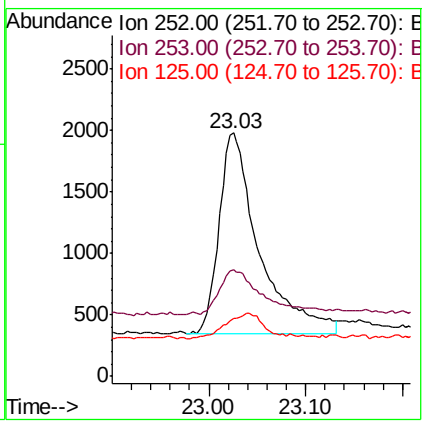


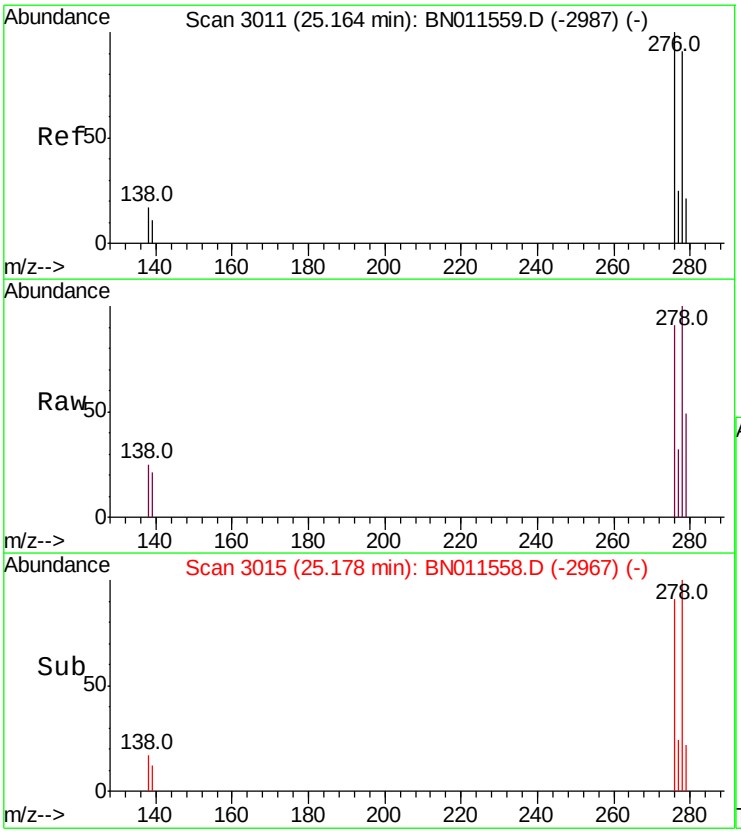
#39
Benzo(a)pyrene
Concen: 0.211 ng
RT: 23.03 min Scan# 2386
Delta R.T. 0.00 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 4720

Ion	Ratio	Lower	Upper
252	100		
253	43.8	31.8	47.8
125	23.8	15.4	23.0#

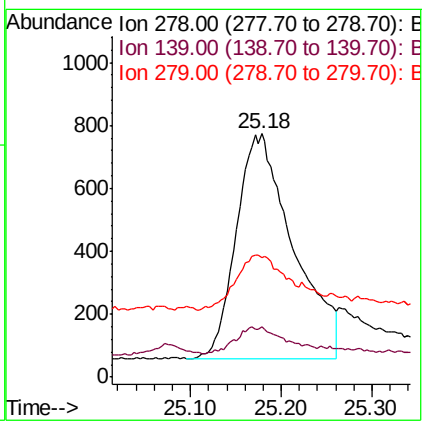


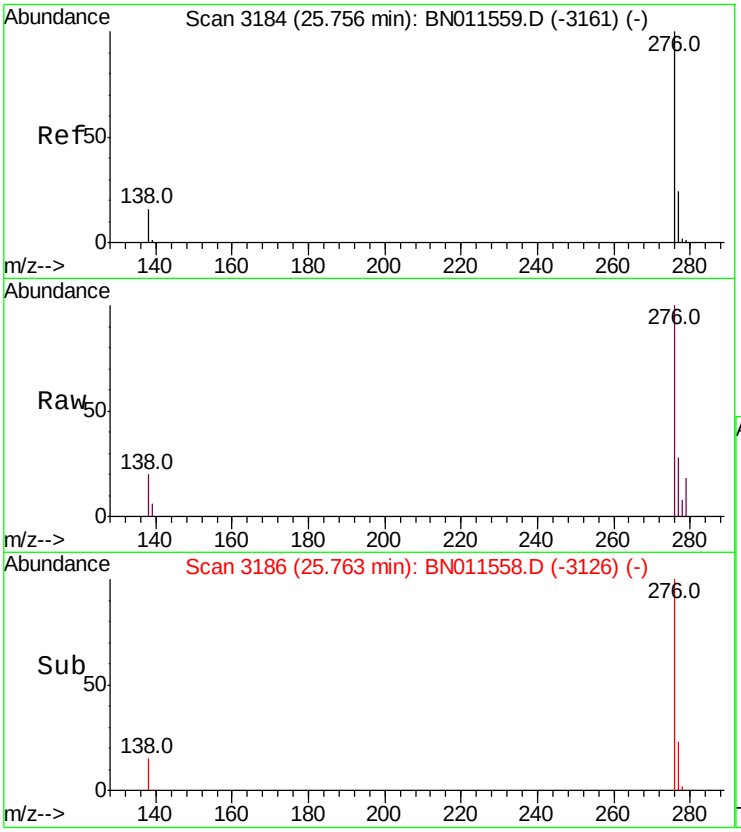


#40
Dibenzo(a,h)anthracene
Concen: 0.125 ng
RT: 25.18 min Scan# 3015
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Tgt Ion:278 Resp: 3118

Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.0	21.0
279	49.0	32.4	48.6#





#41
Benzo(g,h,i)perylene
Concen: 0.175 ng
RT: 25.76 min Scan# 3186
Delta R.T. 0.01 min
Lab File: BN011558.D
Acq: 21 Aug 2020 17:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 4553

Ion	Ratio	Lower	Upper
276	100		
277	28.1	22.1	33.1
138	19.8	15.4	23.2