Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033477.D
Acq On : 19 Aug 2024 10:09
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 19 23:21:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.559	152	10585	0.400	ng		0.00
7) Naphthalene-d8	10.314	136	28337	0.400	ng		0.00
13) Acenaphthene-d10	14.189	164	13371	0.400	ng		0.00
19) Phenanthrene-d10	16.942	188	24277	0.400	ng		0.00
29) Chrysene-d12	21.148	240	18629	0.400	ng		0.00
35) Perylene-d12	23.326	264	20658	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.190	112	11206	0.376	ng		0.00
5) Phenol-d6	6.743	99	14009	0.360	ng		0.00
8) Nitrobenzene-d5	8.691	82	8151	0.380	ng		0.00
11) 2-Methylnaphthalene-d10	11.915	152	14570	0.342	ng		0.00
14) 2,4,6-Tribromophenol	15.688	330	2012	0.295	ng		0.00
15) 2-Fluorobiphenyl	12.809	172	20649	0.382	ng		0.00
27) Fluoranthene-d10	18.984	212	20760	0.326	ng		0.00
31) Terphenyl-d14	19.597	244	14131	0.394	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.190	88	4126	0.362	ng		98
3) n-Nitrosodimethylamine	3.486	42	4604	0.312	ng	#	98
6) bis(2-Chloroethyl)ether	6.996	93	10857	0.358	ng		100
9) Naphthalene	10.368	128	27623	0.359	ng		100
10) Hexachlorobutadiene	10.667	225	5460	0.370	ng	#	100
12) 2-Methylnaphthalene	11.990	142	17016	0.331	ng		99
16) Acenaphthylene	13.911	152	20091	0.327	ng		100
17) Acenaphthene	14.253	154	14193	0.336	ng		99
18) Fluorene	15.247	166	17203	0.311	ng		100
20) 4,6-Dinitro-2-methylph...	15.332	198	662	0.219	ng		90
21) 4-Bromophenyl-phenylether	16.147	248	5432	0.375	ng		96
22) Hexachlorobenzene	16.259	284	6287	0.389	ng		99
23) Atrazine	16.420	200	3921	0.340	ng		97
24) Pentachlorophenol	16.594	266	2404	0.363	ng		97
25) Phenanthrene	16.979	178	24355	0.351	ng		100
26) Anthracene	17.078	178	20479	0.334	ng		99
28) Fluoranthene	19.012	202	26210	0.311	ng		100
30) Pyrene	19.379	202	27050	0.360	ng		99
32) Benzo(a)anthracene	21.139	228	24295	0.351	ng		100
33) Chrysene	21.184	228	24833	0.360	ng		99
34) Bis(2-ethylhexyl)phtha...	21.103	149	13531	0.409	ng		98
36) Indeno(1,2,3-cd)pyrene	25.484	276	30931	0.361	ng		99
37) Benzo(b)fluoranthene	22.677	252	27518	0.357	ng		99
38) Benzo(k)fluoranthene	22.721	252	26734	0.342	ng		97
39) Benzo(a)pyrene	23.230	252	23275	0.358	ng		97
40) Dibenzo(a,h)anthracene	25.504	278	24468	0.361	ng		97
41) Benzo(g,h,i)perylene	26.139	276	26809	0.360	ng		99

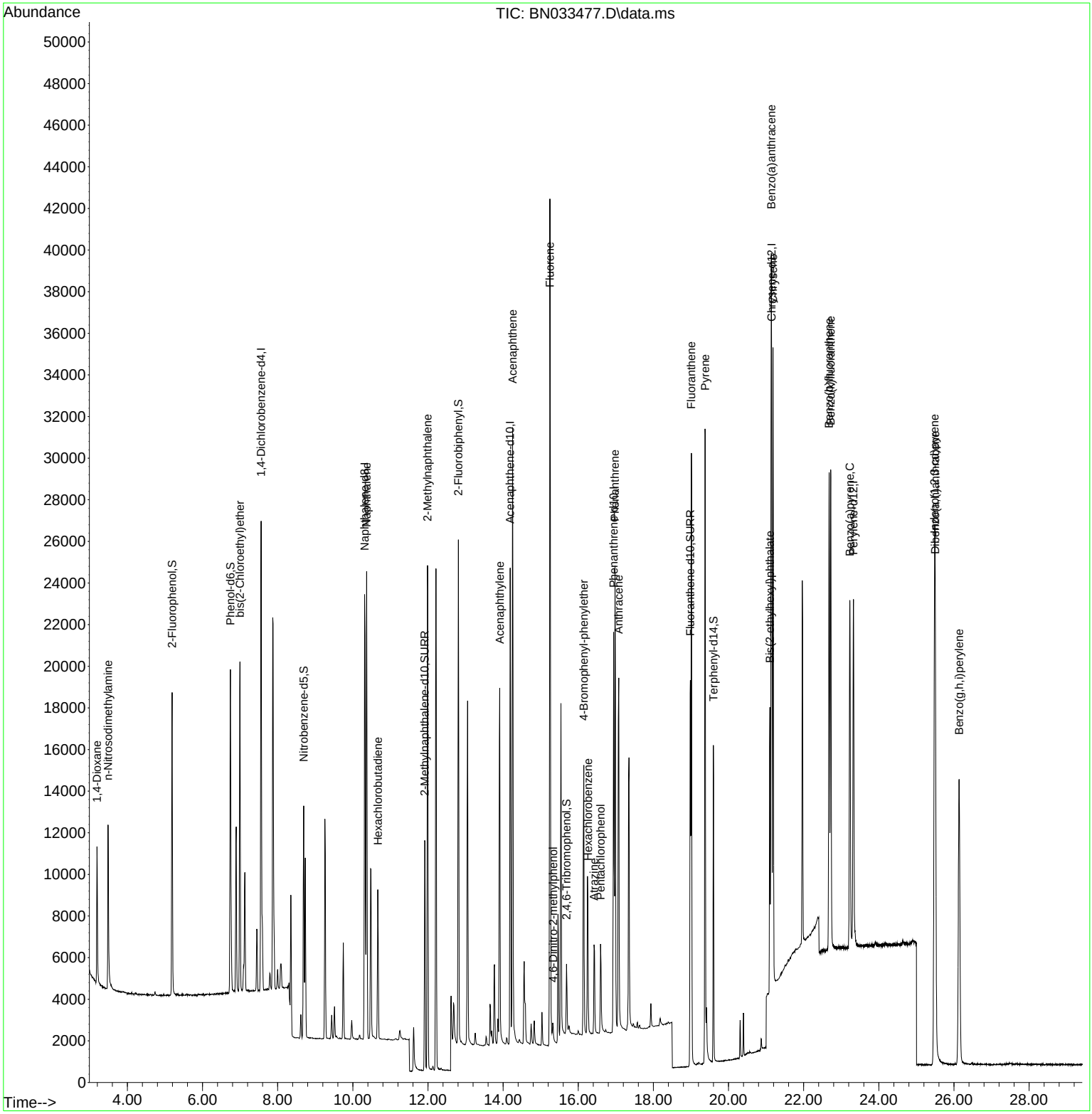
(#) = qualifier out of range (m) = manual integration (+) = signals summed

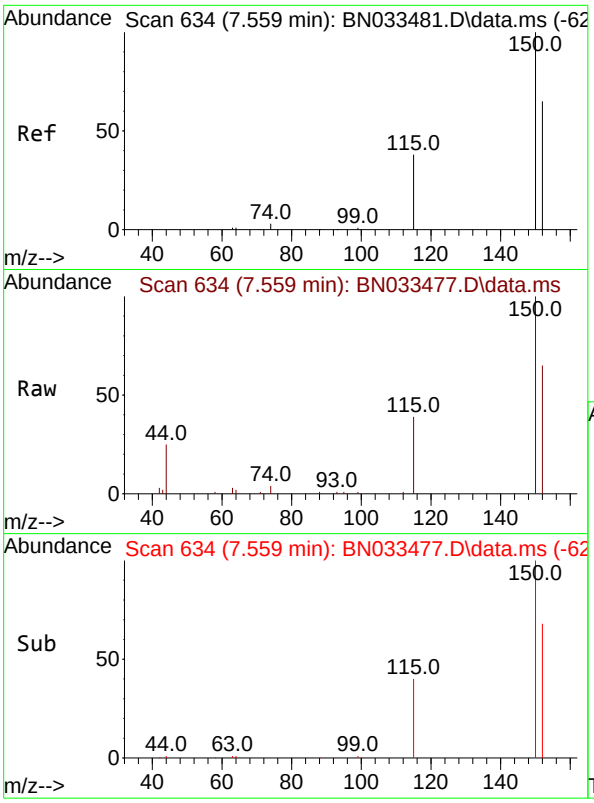
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081924\
Data File : BN033477.D
Acq On : 19 Aug 2024 10:09
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 19 23:21:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 19 23:20:26 2024
Response via : Initial Calibration



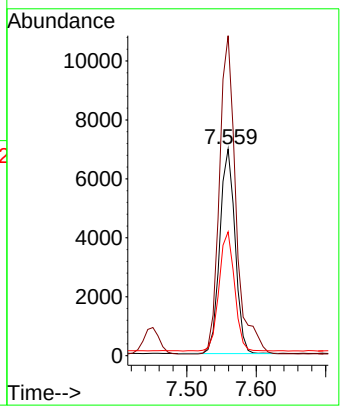


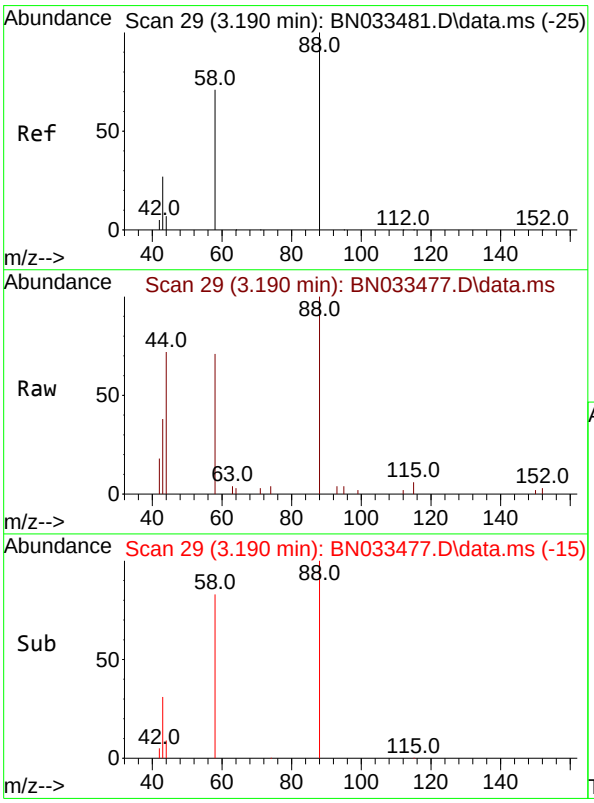
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 10585

Ion	Ratio	Lower	Upper
152	100		
150	154.8	122.2	183.2
115	59.9	47.2	70.8

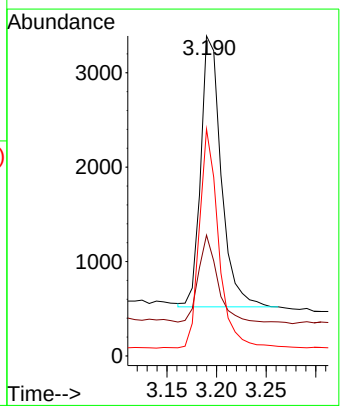


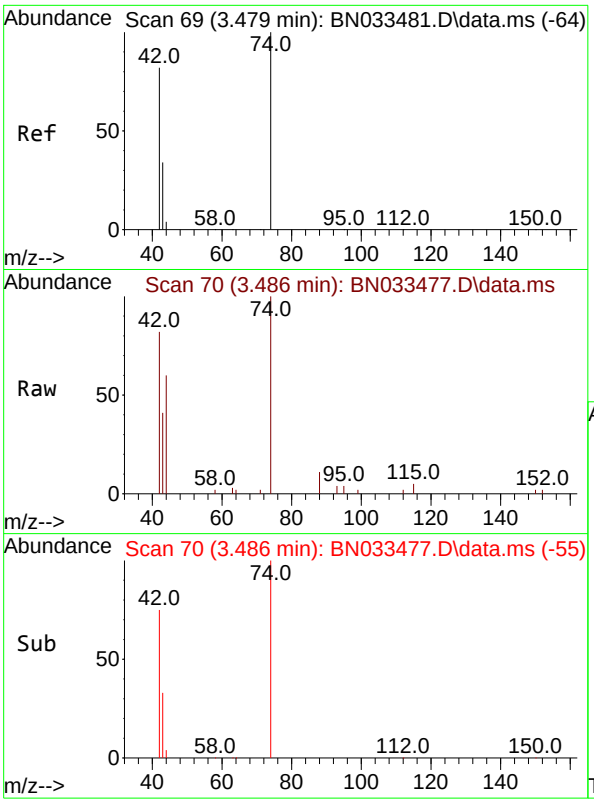


#2
1,4-Dioxane
Concen: 0.362 ng
RT: 3.190 min Scan# 29
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion: 88 Resp: 4126

Ion	Ratio	Lower	Upper
88	100		
43	29.7	25.0	37.4
58	76.5	62.5	93.7



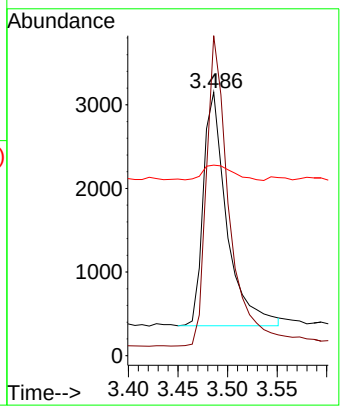


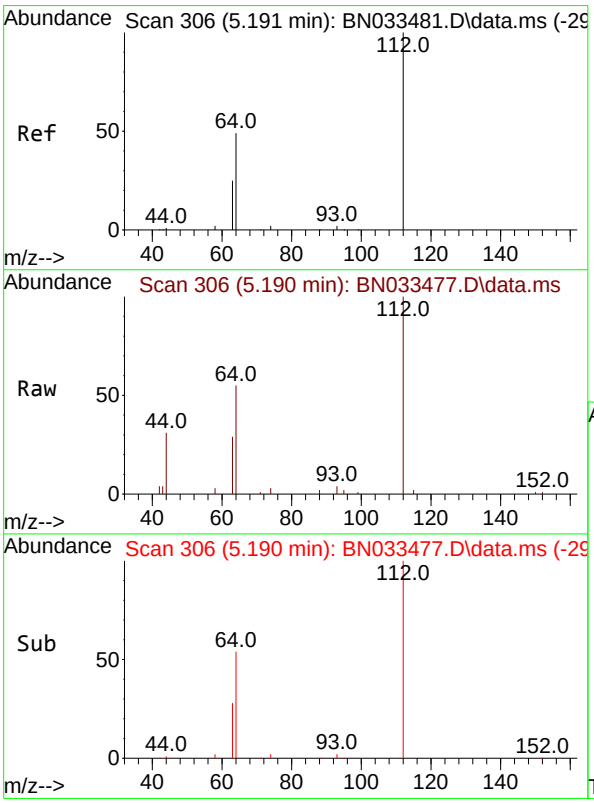
#3
n-Nitrosodimethylamine
Concen: 0.312 ng
RT: 3.486 min Scan# 7
Delta R.T. 0.007 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 4604

Ion	Ratio	Lower	Upper
42	100		
74	127.8	100.2	150.2
44	8.3	5.3	7.9#

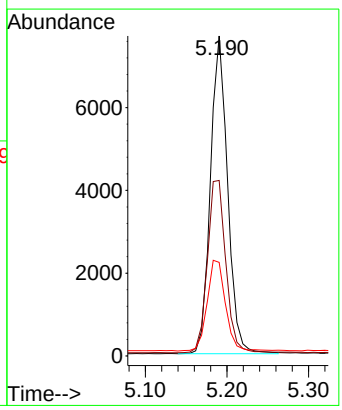


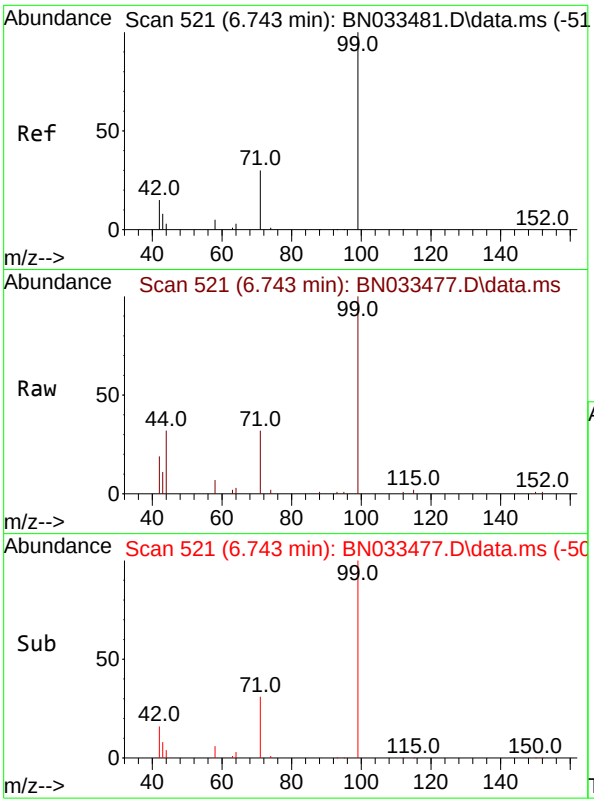


#4
2-Fluorophenol
Concen: 0.376 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:112 Resp: 11206

Ion	Ratio	Lower	Upper
112	100		
64	58.3	47.1	70.7
63	30.6	24.9	37.3



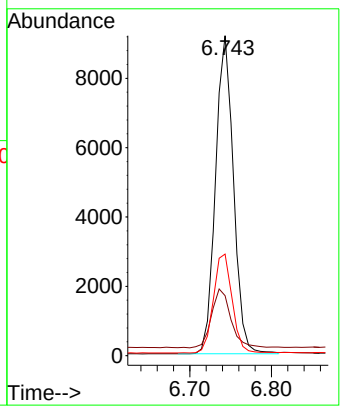


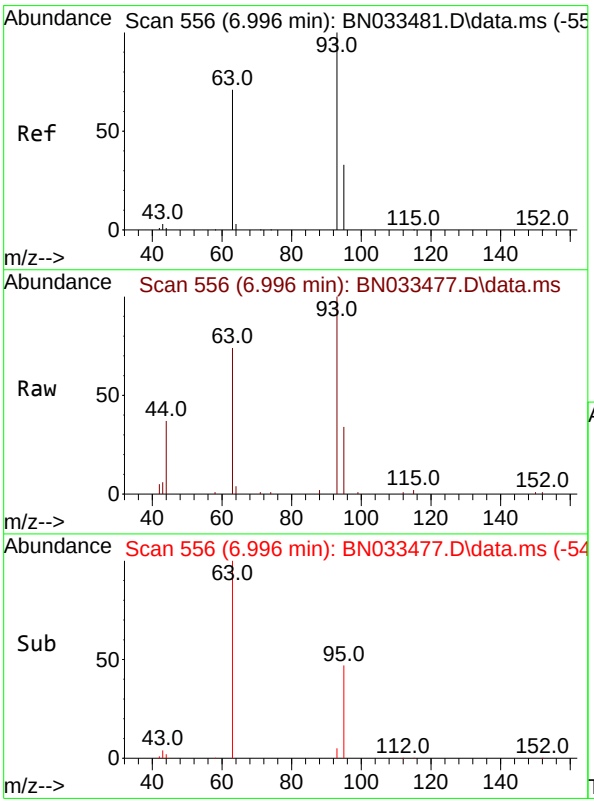
#5
Phenol-d6
Concen: 0.360 ng
RT: 6.743 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 14009

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.6	24.8
71	32.6	26.2	39.4

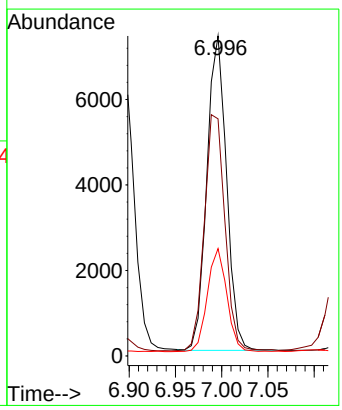


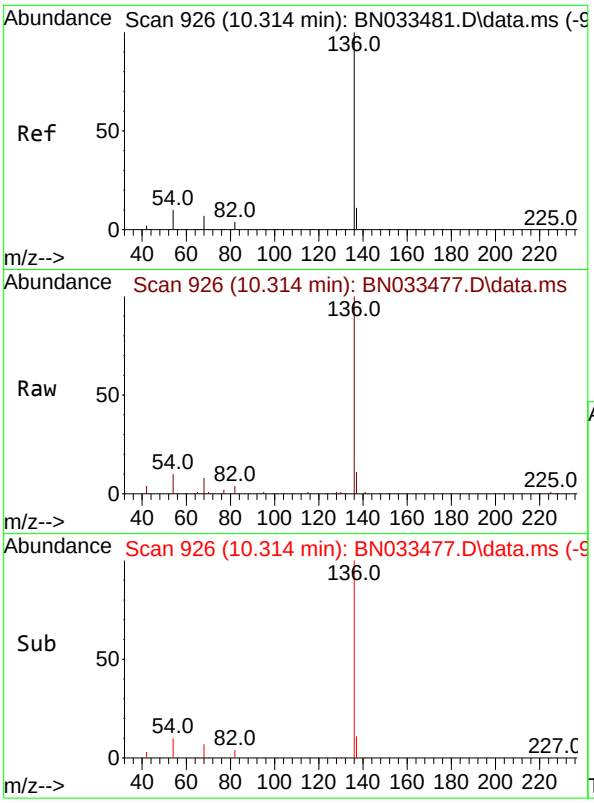


#6
bis(2-Chloroethyl)ether
Concen: 0.358 ng
RT: 6.996 min Scan# 556
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion: 93 Resp: 10857

Ion	Ratio	Lower	Upper
93	100		
63	78.7	63.0	94.4
95	32.6	26.0	39.0



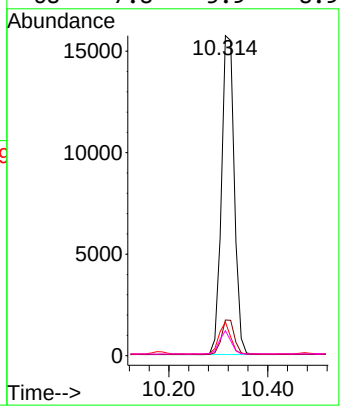


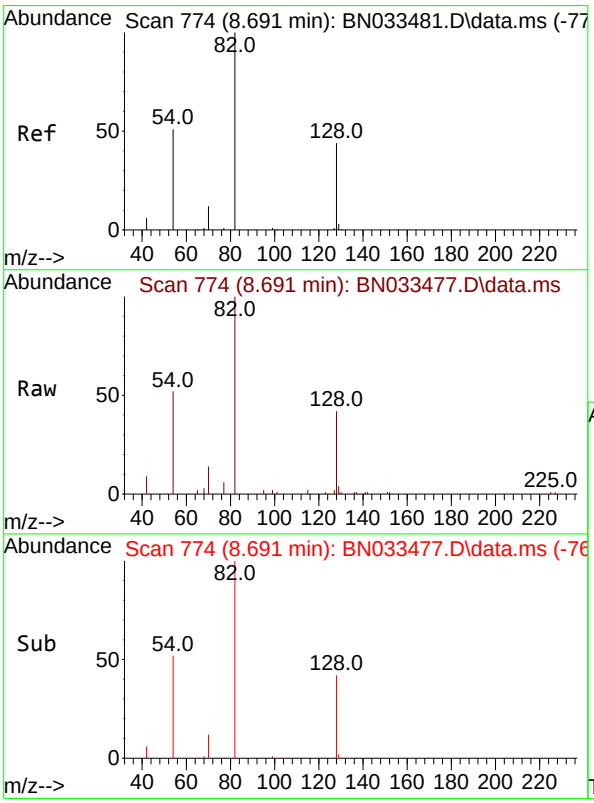
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.314 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 28337

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	10.5	8.3	12.5
68	7.8	5.9	8.9

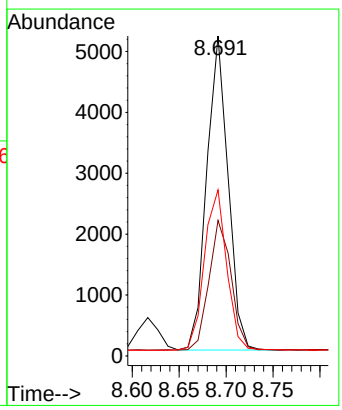


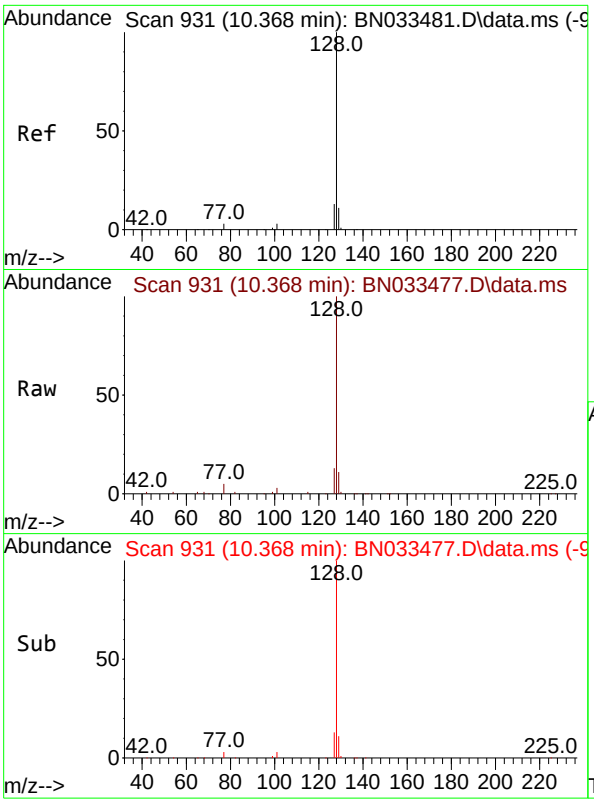


#8
Nitrobenzene-d5
Concen: 0.380 ng
RT: 8.691 min Scan# 774
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion: 82 Resp: 8151

Ion	Ratio	Lower	Upper
82	100		
128	42.4	36.0	54.0
54	51.9	42.0	63.0



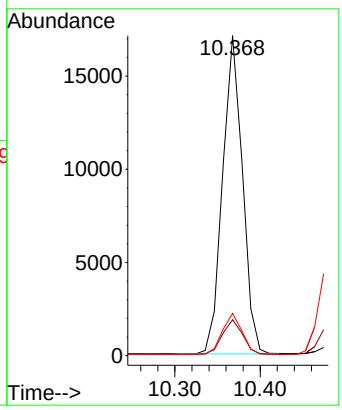


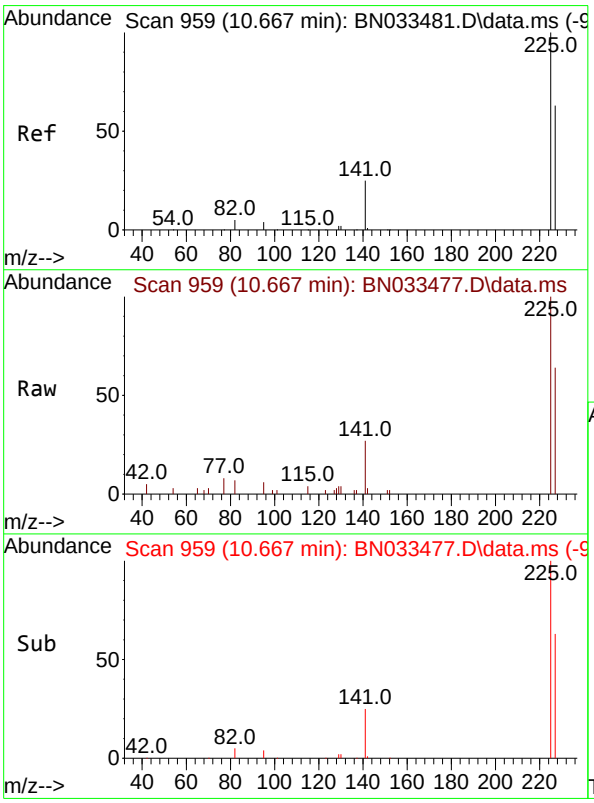
#9
Naphthalene
Concen: 0.359 ng
RT: 10.368 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 27623

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.1	13.7
127	13.2	10.7	16.1

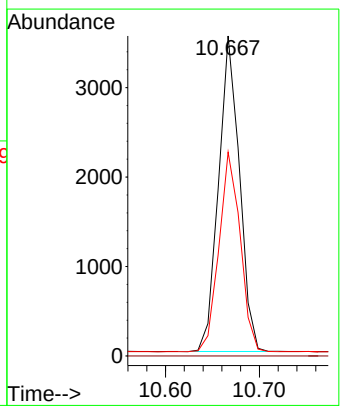


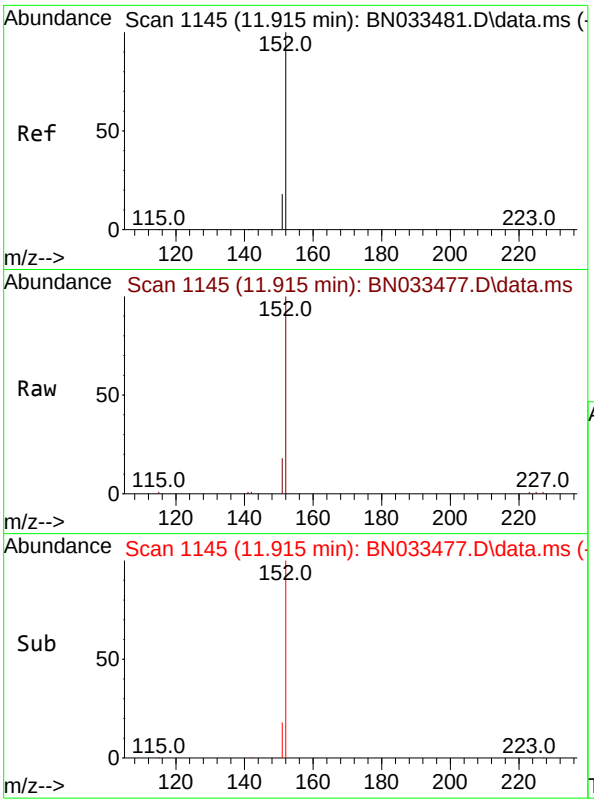


#10
Hexachlorobutadiene
Concen: 0.370 ng
RT: 10.667 min Scan# 959
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:225 Resp: 5460

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.2	76.8



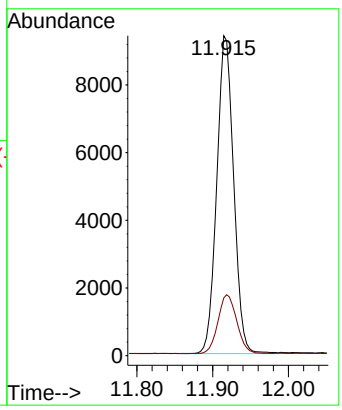


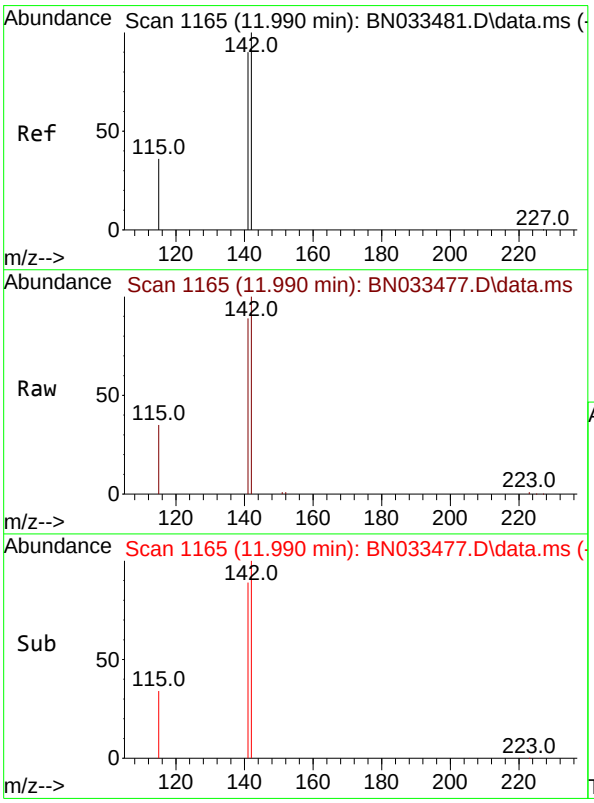
#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 11.915 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 14570

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

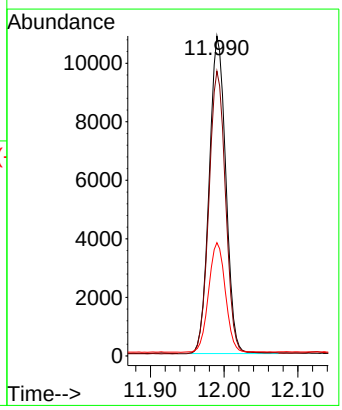


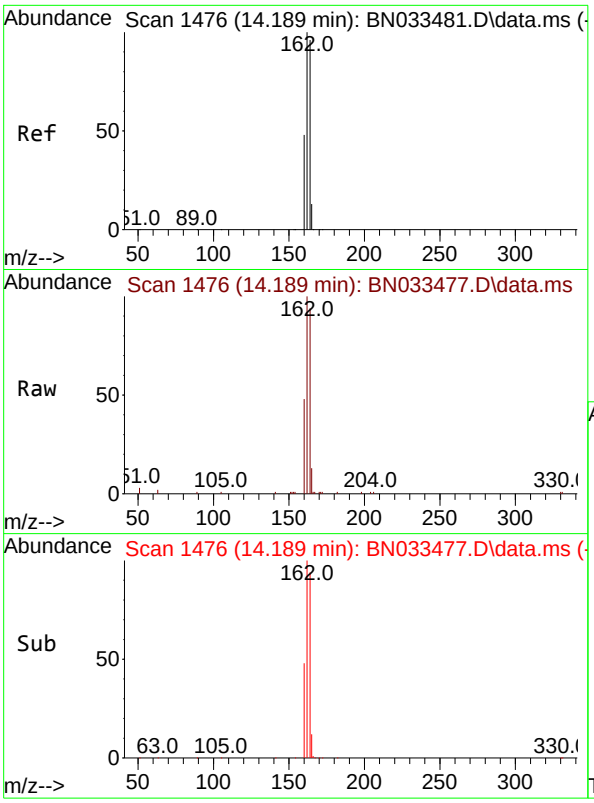


#12
2-Methylnaphthalene
Concen: 0.331 ng
RT: 11.990 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:142 Resp: 17016

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.7	107.5
115	35.4	29.4	44.2



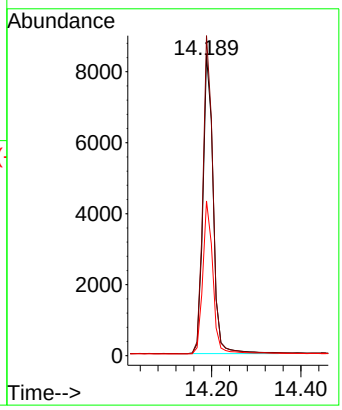


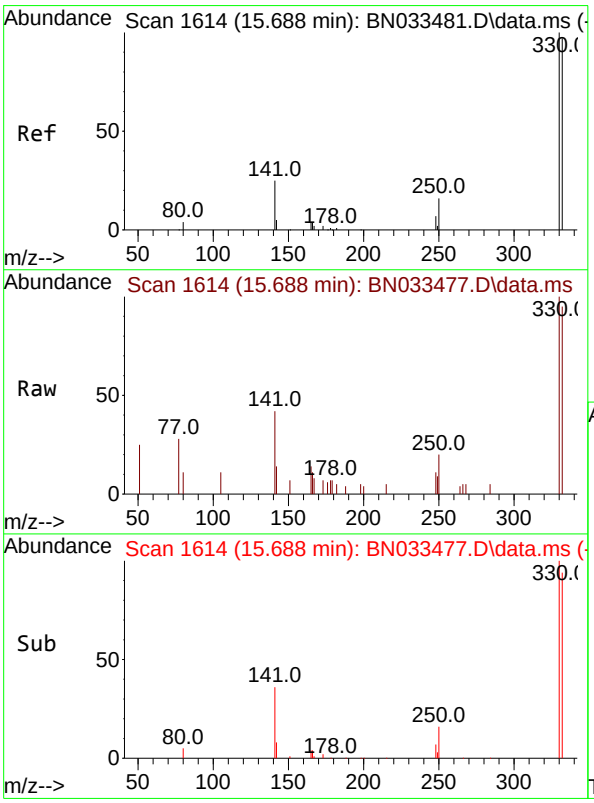
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 13371

Ion	Ratio	Lower	Upper
164	100		
162	106.5	83.5	125.3
160	51.5	40.2	60.4

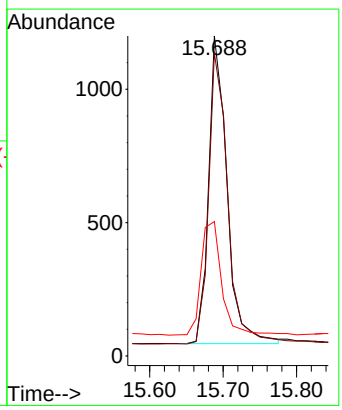


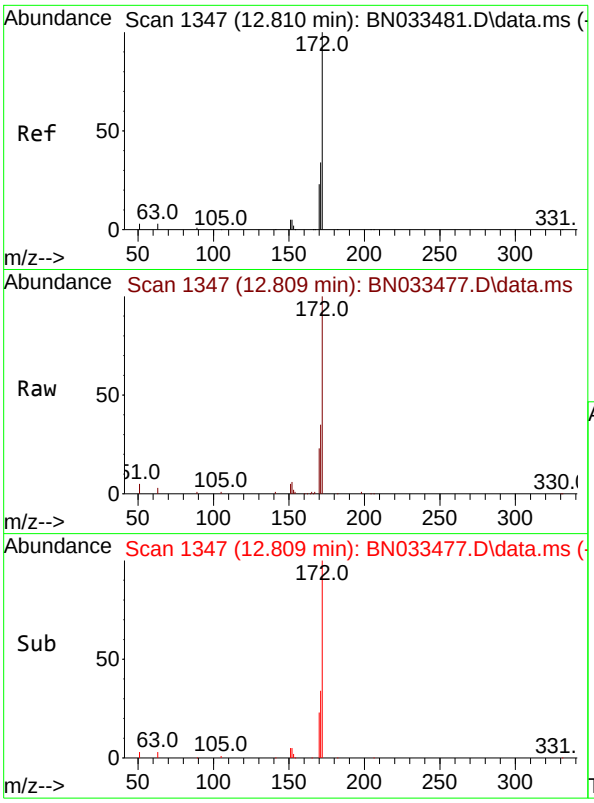


#14
2,4,6-Tribromophenol
Concen: 0.295 ng
RT: 15.688 min Scan# 1614
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:330 Resp: 2012

Ion	Ratio	Lower	Upper
330	100		
332	98.1	77.5	116.3
141	41.5	33.9	50.9



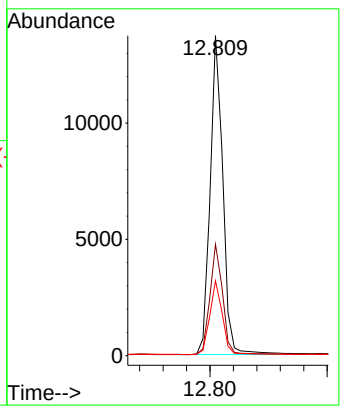


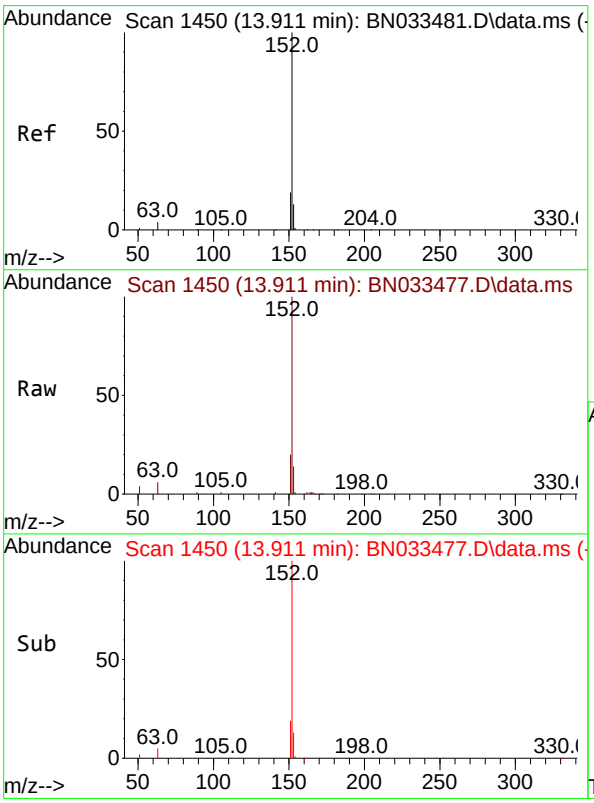
#15
2-Fluorobiphenyl
Concen: 0.382 ng
RT: 12.809 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 20649

Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.7	41.5
170	23.4	18.3	27.5

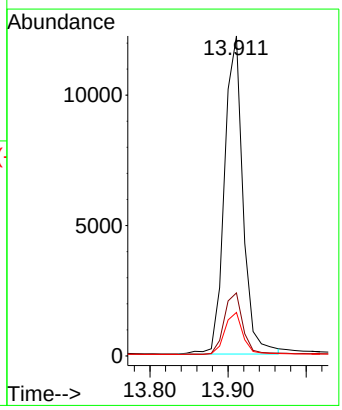


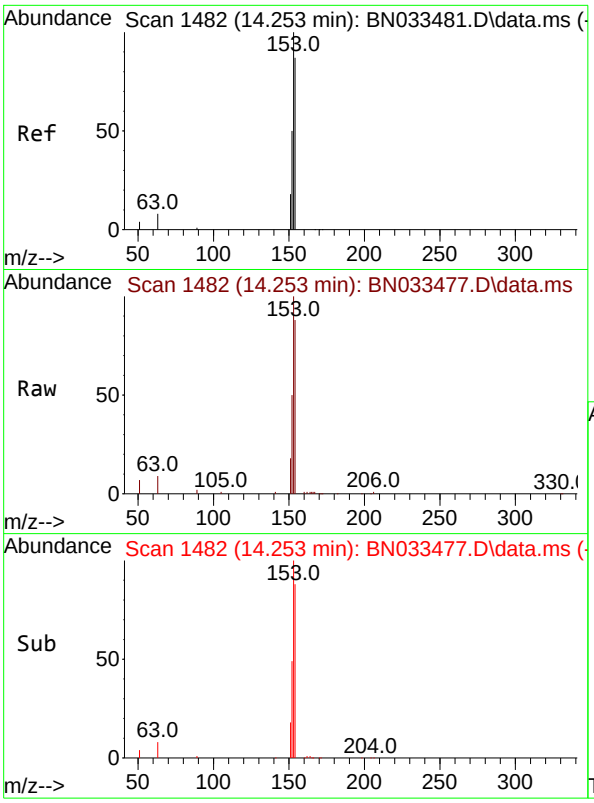


#16
Acenaphthylene
Concen: 0.327 ng
RT: 13.911 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:152 Resp: 20091

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.7	23.5
153	13.1	10.3	15.5



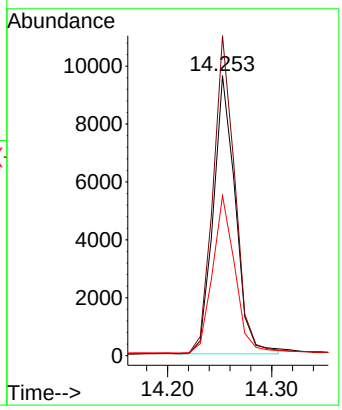


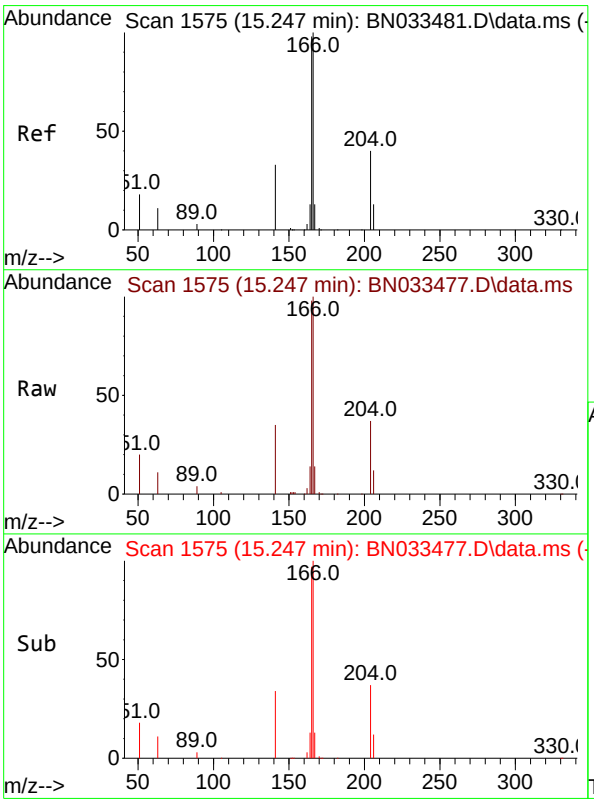
#17
Acenaphthene
Concen: 0.336 ng
RT: 14.253 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 14193

Ion	Ratio	Lower	Upper
154	100		
153	113.2	89.0	133.6
152	57.0	45.2	67.8

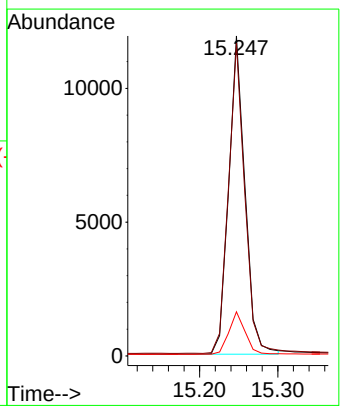


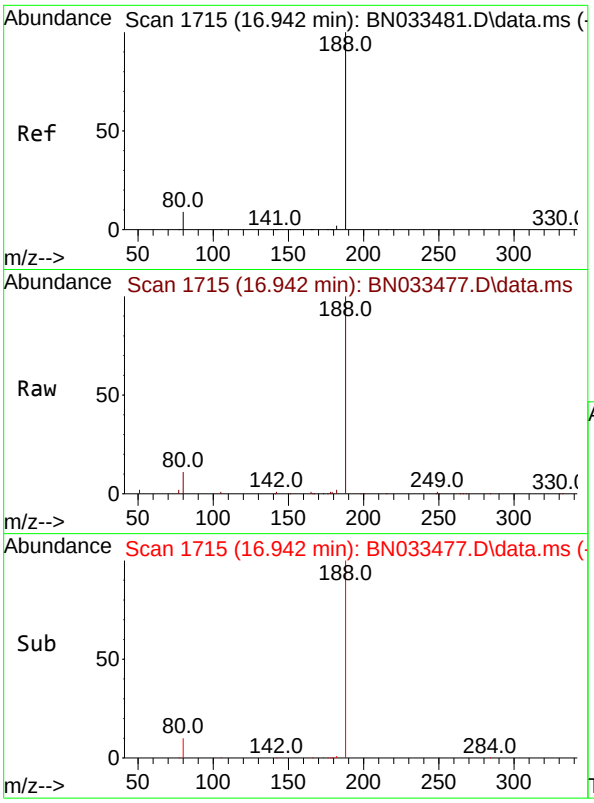


#18
Fluorene
Concen: 0.311 ng
RT: 15.247 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:166 Resp: 17203

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.2	117.4
167	13.4	10.6	16.0



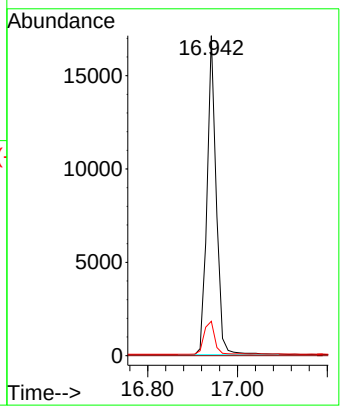


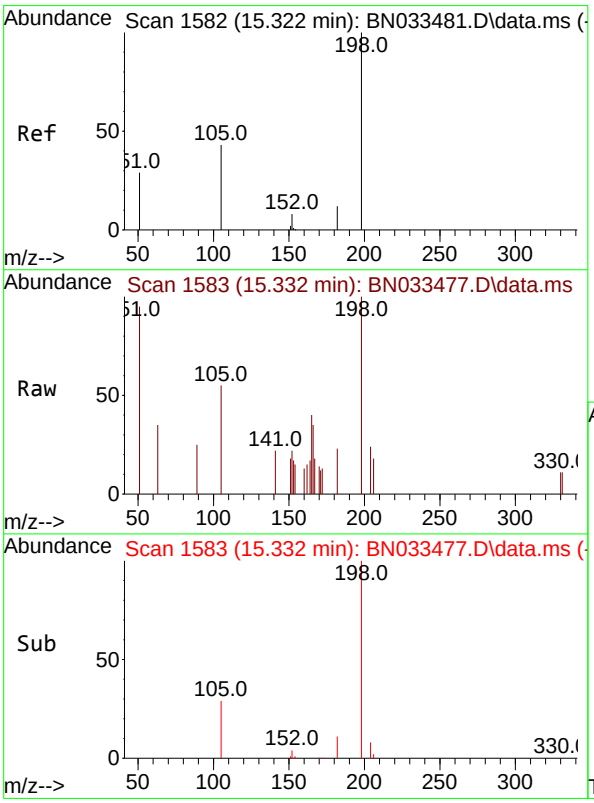
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.942 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 24277

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	7.8	11.8

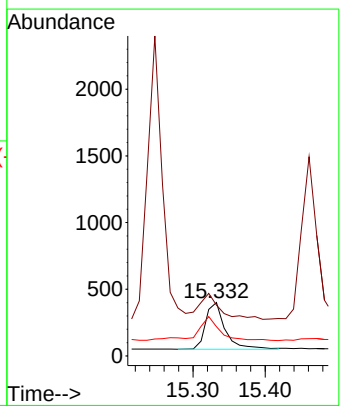


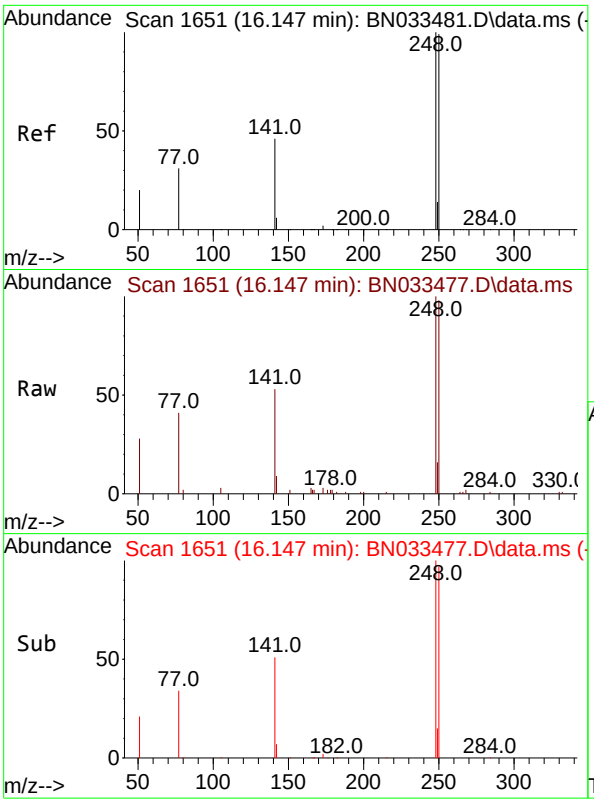


#20
4,6-Dinitro-2-methylphenol
Concen: 0.219 ng
RT: 15.332 min Scan# 1583
Delta R.T. 0.011 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:198 Resp: 662

Ion	Ratio	Lower	Upper
198	100		
51	95.0	65.1	97.7
105	54.9	44.8	67.2



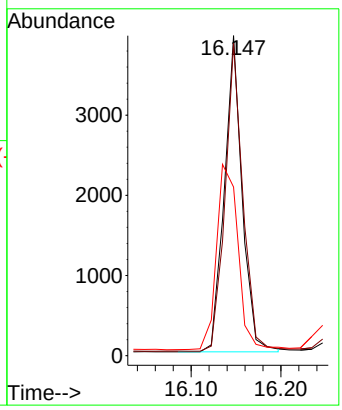


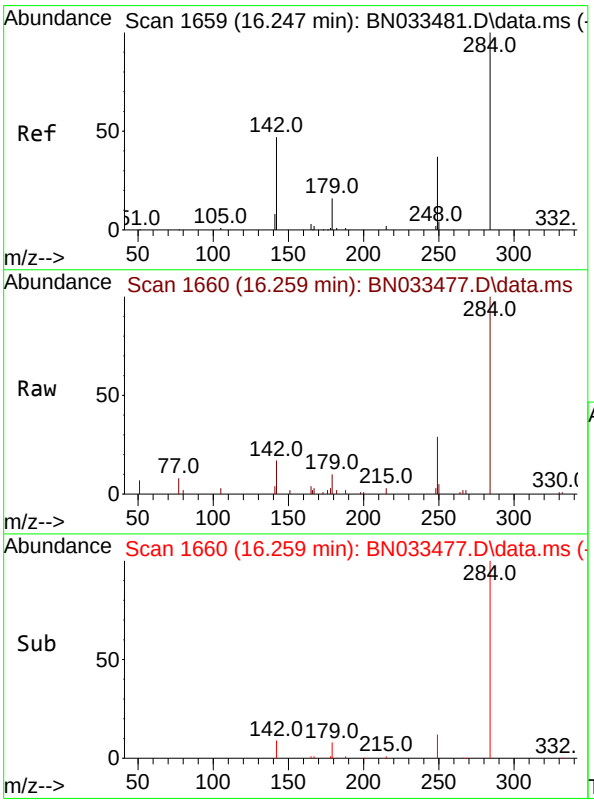
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 5432

Ion	Ratio	Lower	Upper
248	100		
250	97.5	79.2	118.8
141	52.7	37.9	56.9

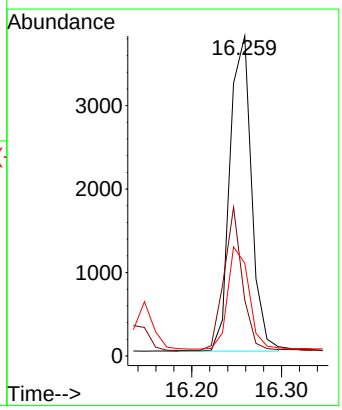


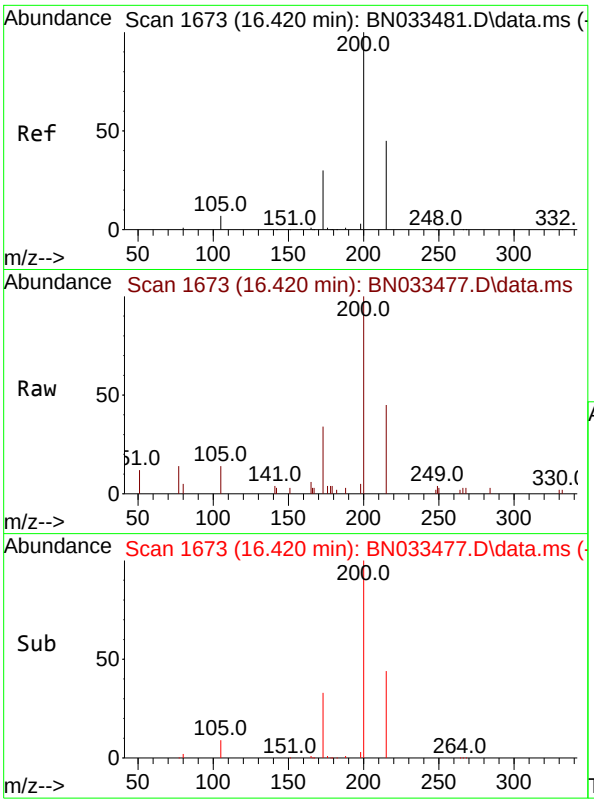


#22
Hexachlorobenzene
Concen: 0.389 ng
RT: 16.259 min Scan# 1660
Delta R.T. 0.012 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:284 Resp: 6287

Ion	Ratio	Lower	Upper
284	100		
142	38.8	31.8	47.6
249	31.9	26.0	39.0



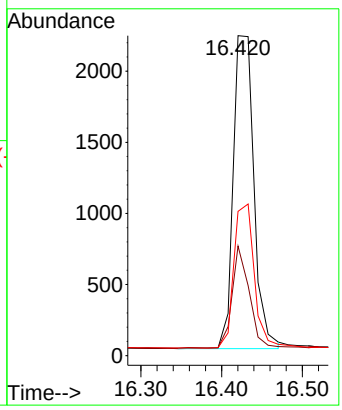


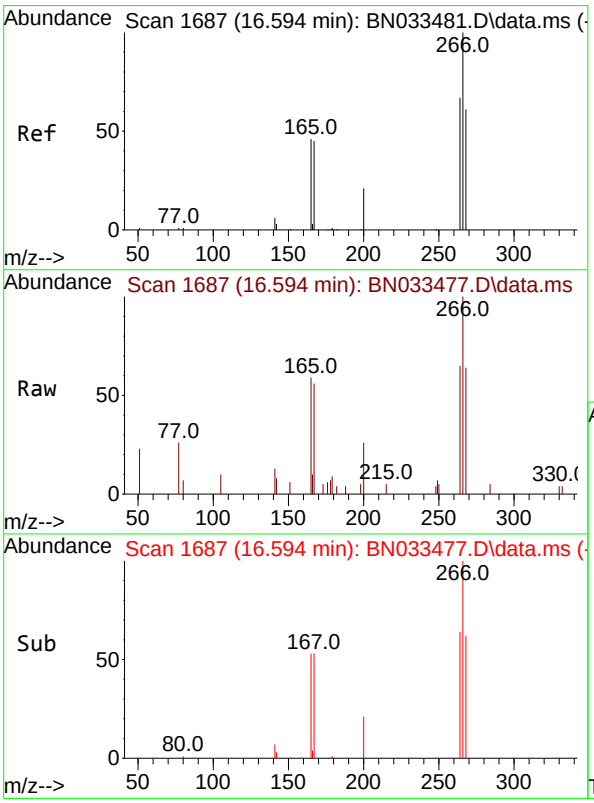
#23
Atrazine
Concen: 0.340 ng
RT: 16.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 3921

Ion	Ratio	Lower	Upper
200	100		
173	34.2	25.3	37.9
215	45.1	36.6	54.8

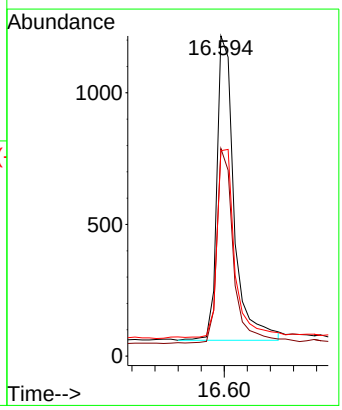


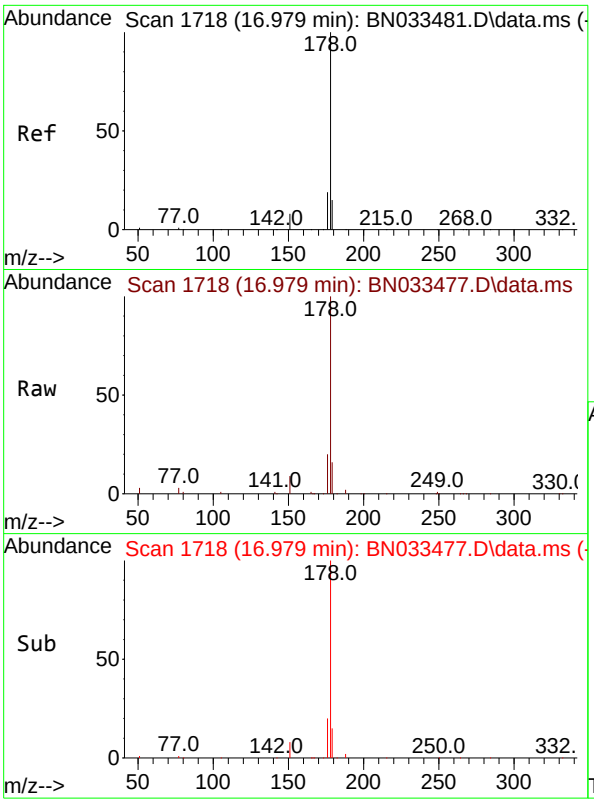


#24
Pentachlorophenol
Concen: 0.363 ng
RT: 16.594 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:266 Resp: 2404

Ion	Ratio	Lower	Upper
266	100		
264	61.0	51.9	77.9
268	62.5	51.0	76.4



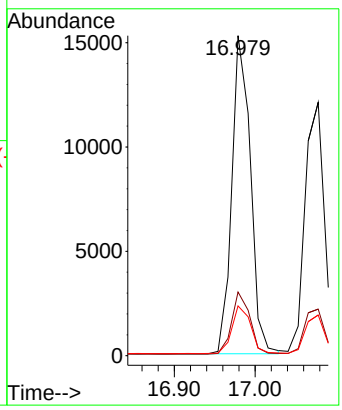


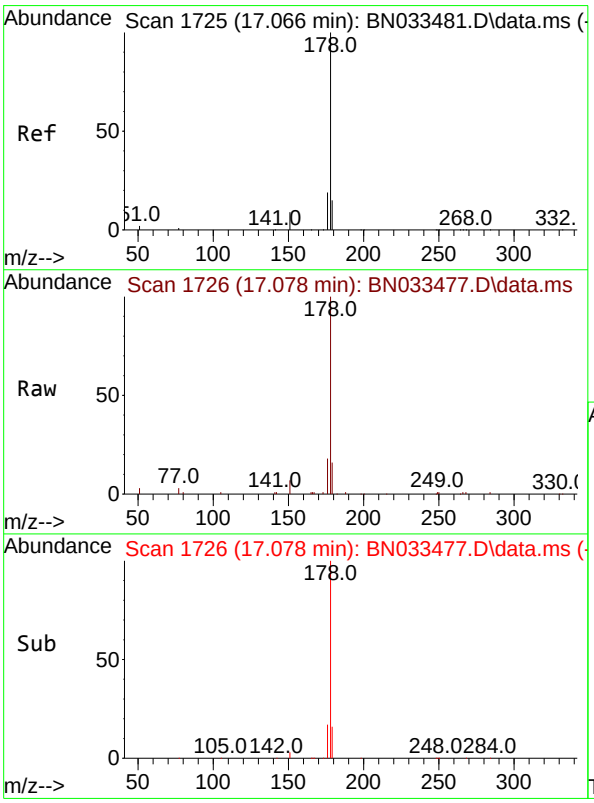
#25
Phenanthrene
Concen: 0.351 ng
RT: 16.979 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 24355

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.4	12.3	18.5

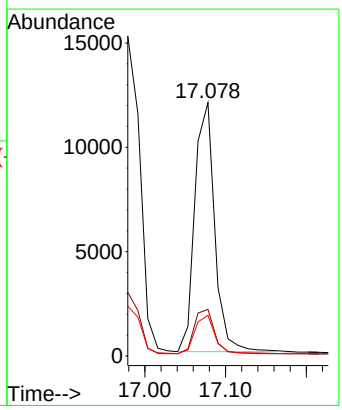


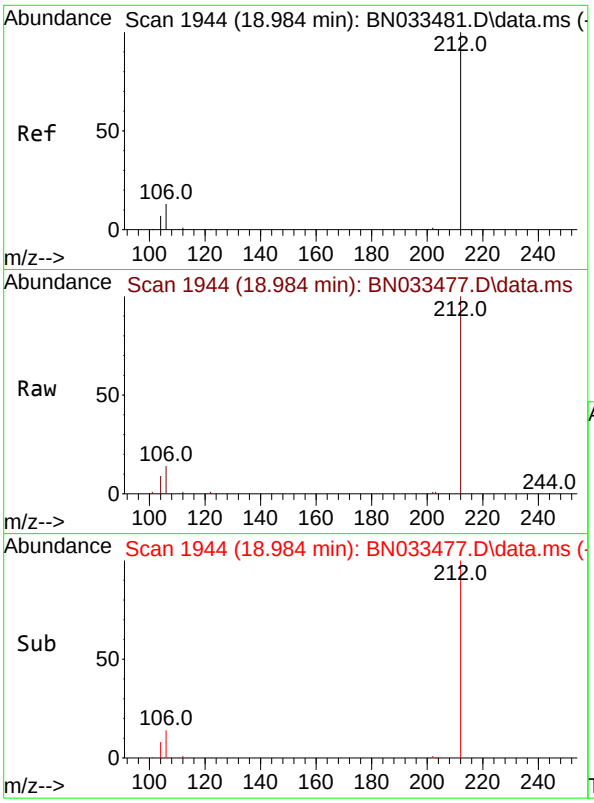


#26
Anthracene
Concen: 0.334 ng
RT: 17.078 min Scan# 1726
Delta R.T. 0.012 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:178 Resp: 20479

Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.0	22.6
179	15.4	12.4	18.6



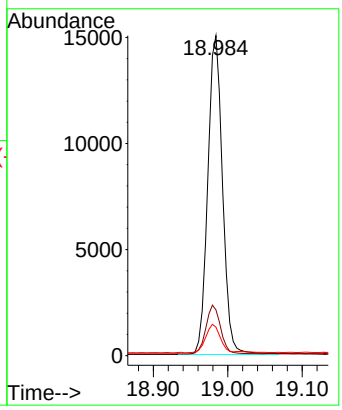


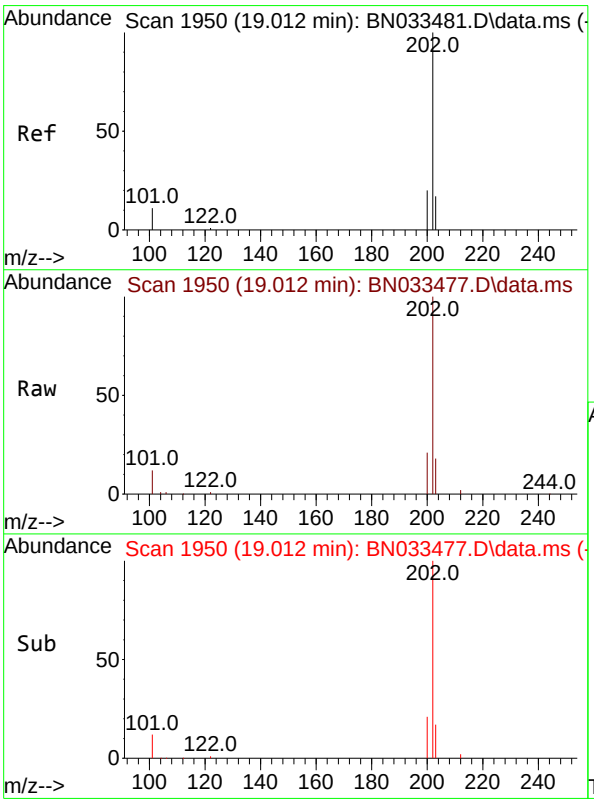
#27
Fluoranthene-d10
Concen: 0.326 ng
RT: 18.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 20760

Ion	Ratio	Lower	Upper
212	100		
106	15.1	12.3	18.5
104	9.1	7.0	10.4

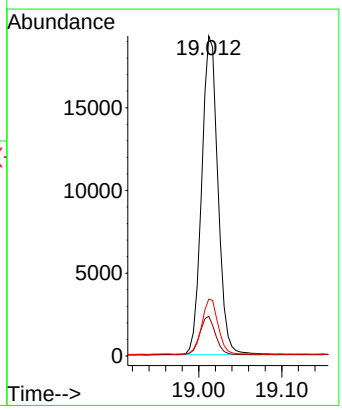


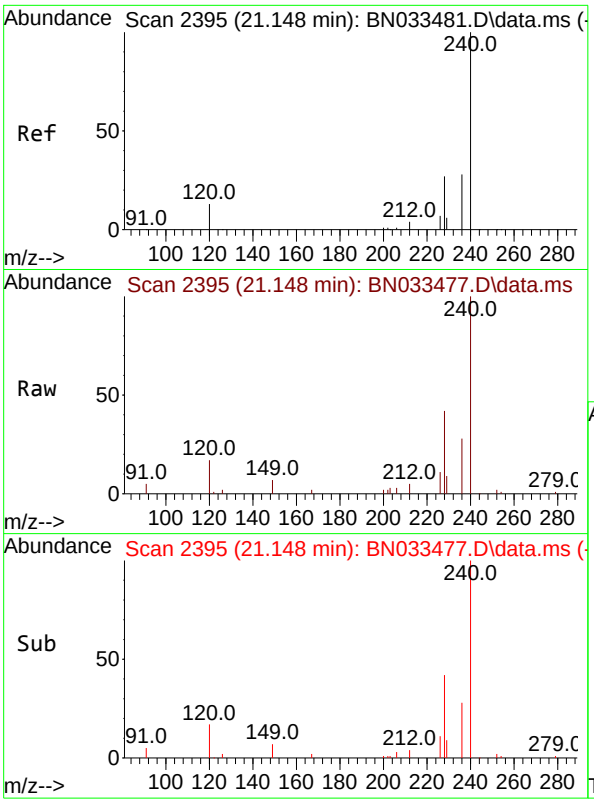


#28
Fluoranthene
Concen: 0.311 ng
RT: 19.012 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:202 Resp: 26210

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.5	14.3
203	17.3	13.8	20.6



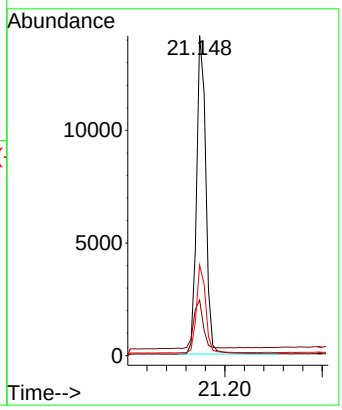


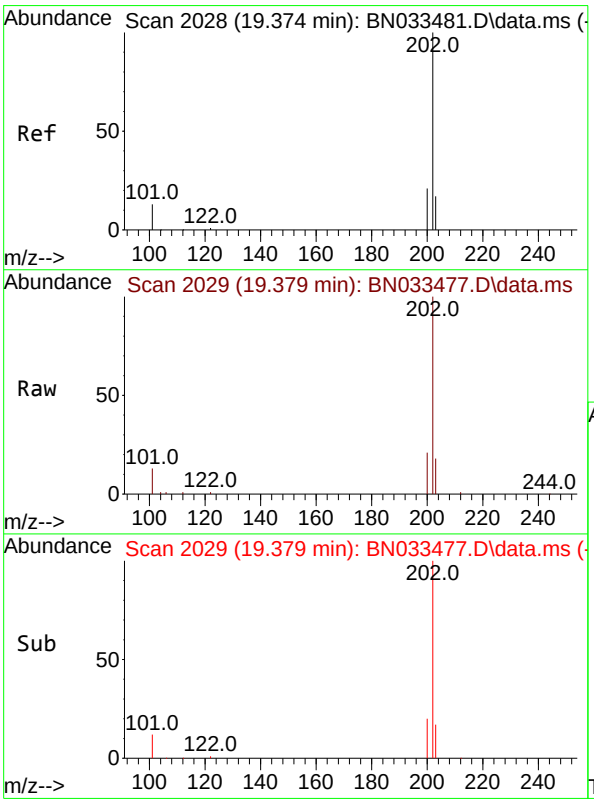
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.148 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 18629

Ion	Ratio	Lower	Upper
240	100		
120	17.4	12.4	18.6
236	28.3	23.0	34.6

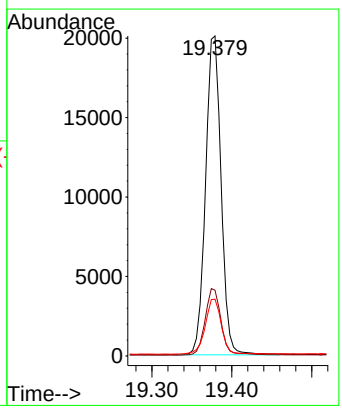


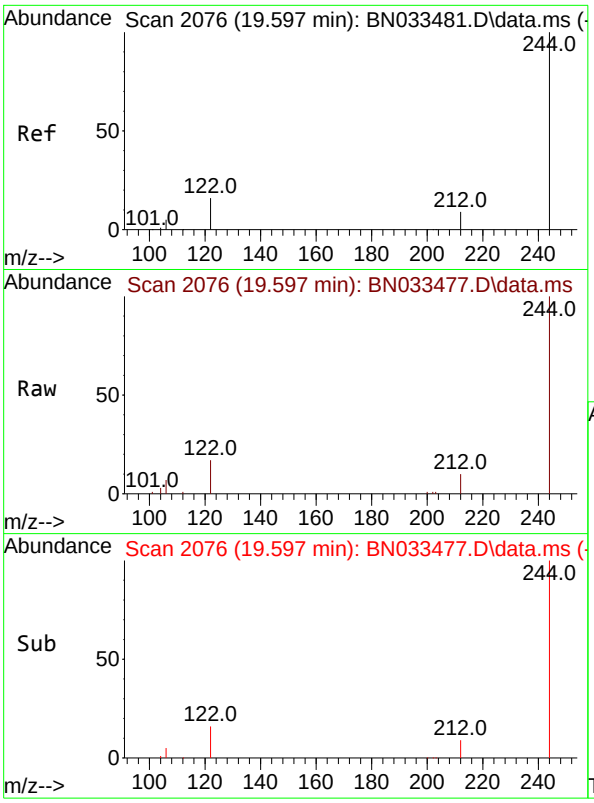


#30
Pyrene
Concen: 0.360 ng
RT: 19.379 min Scan# 2029
Delta R.T. 0.005 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:202 Resp: 27050

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.6	24.8
203	18.0	14.2	21.4



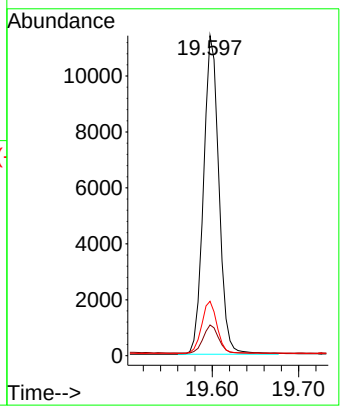


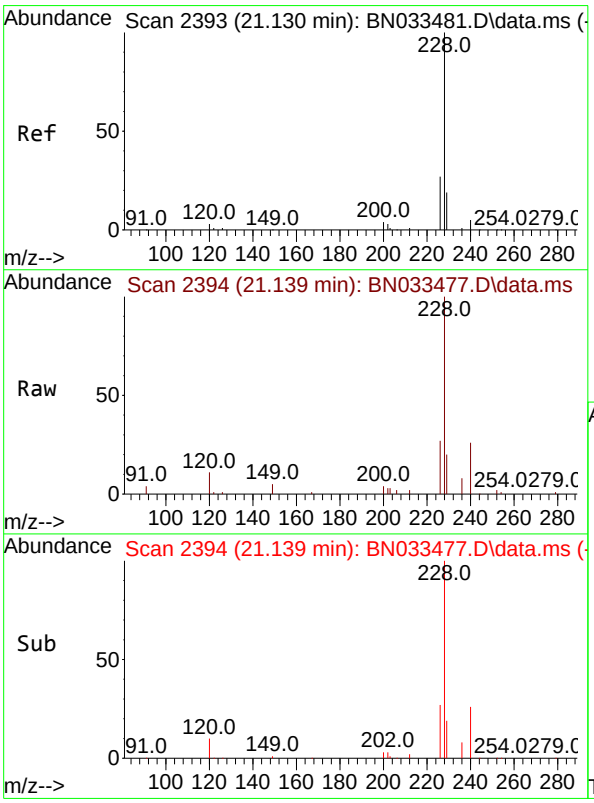
#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.597 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 14131

Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.8	11.6
122	17.0	13.3	19.9

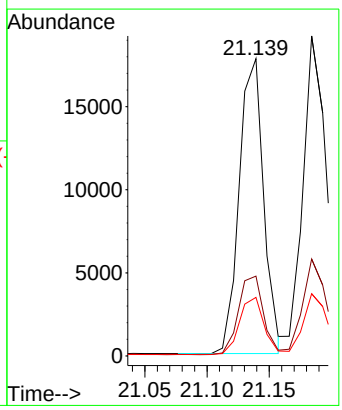


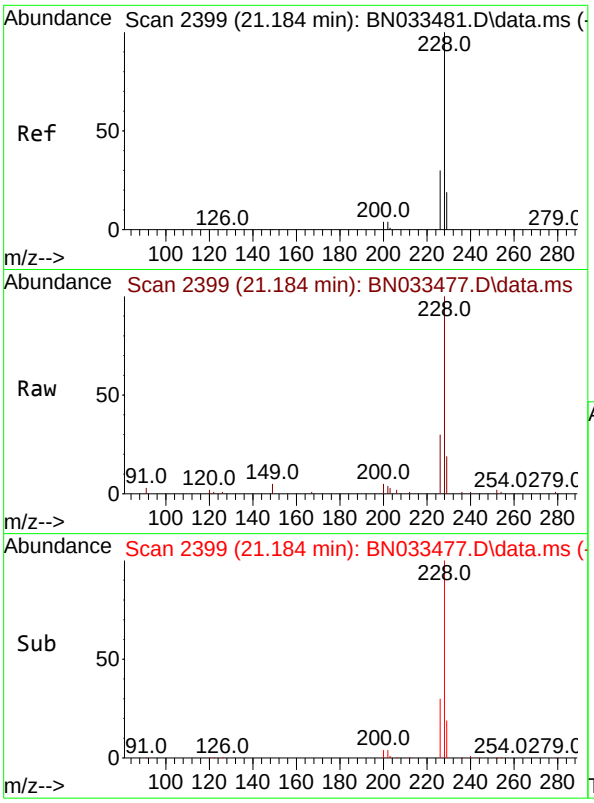


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.139 min Scan# 2394
Delta R.T. 0.009 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:228 Resp: 24295

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.6
229	19.7	15.8	23.6



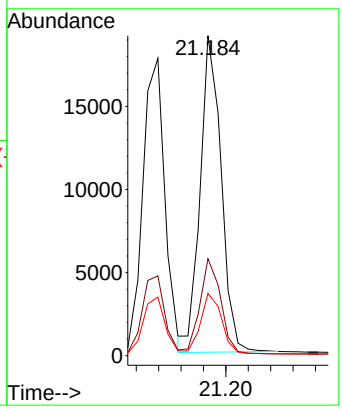


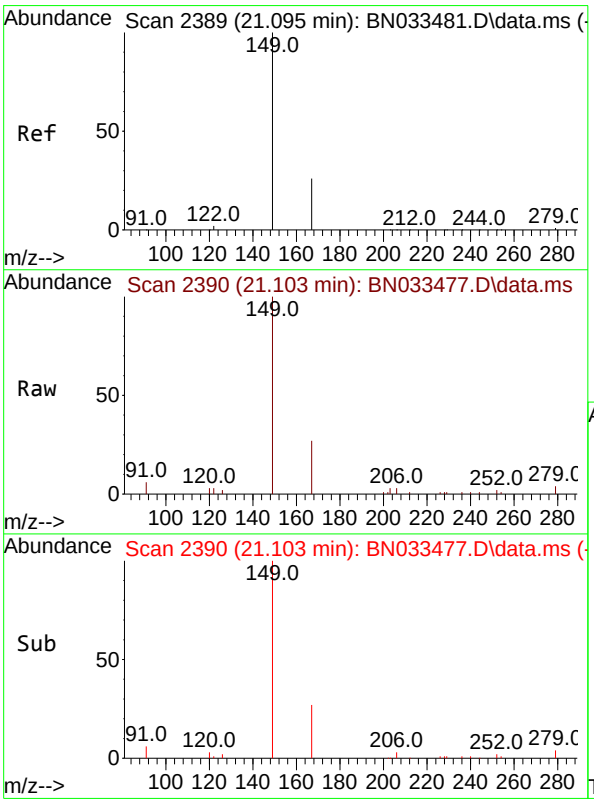
#33
Chrysene
Concen: 0.360 ng
RT: 21.184 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 24833

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.8	35.8
229	19.5	15.6	23.4

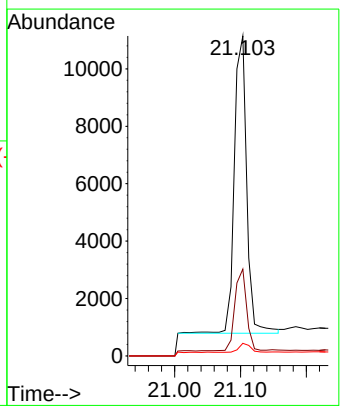


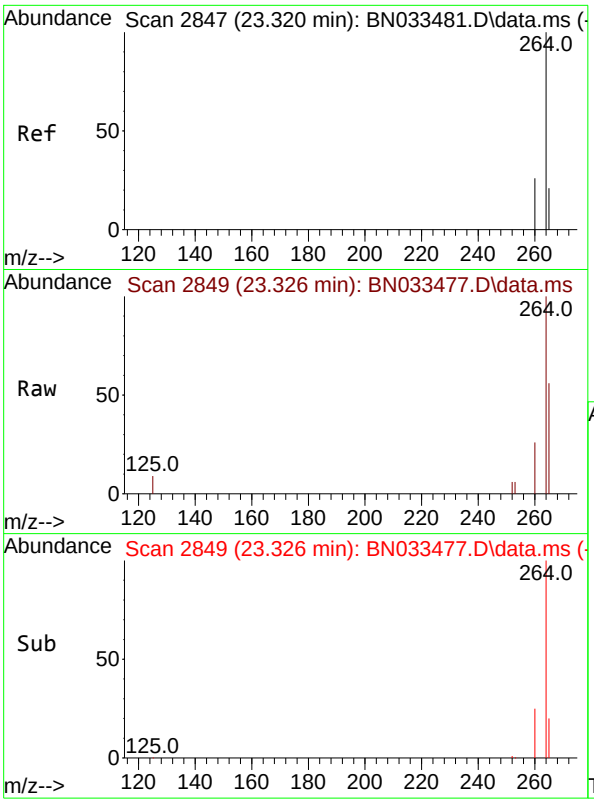


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.409 ng
RT: 21.103 min Scan# 2390
Delta R.T. 0.009 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:149 Resp: 13531

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.5	32.3
279	2.8	2.2	3.2



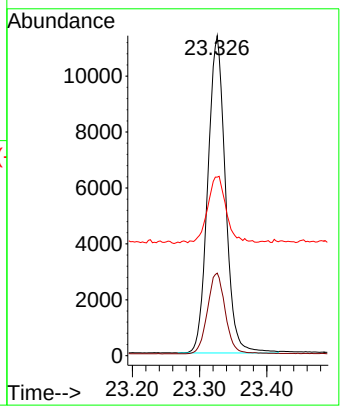


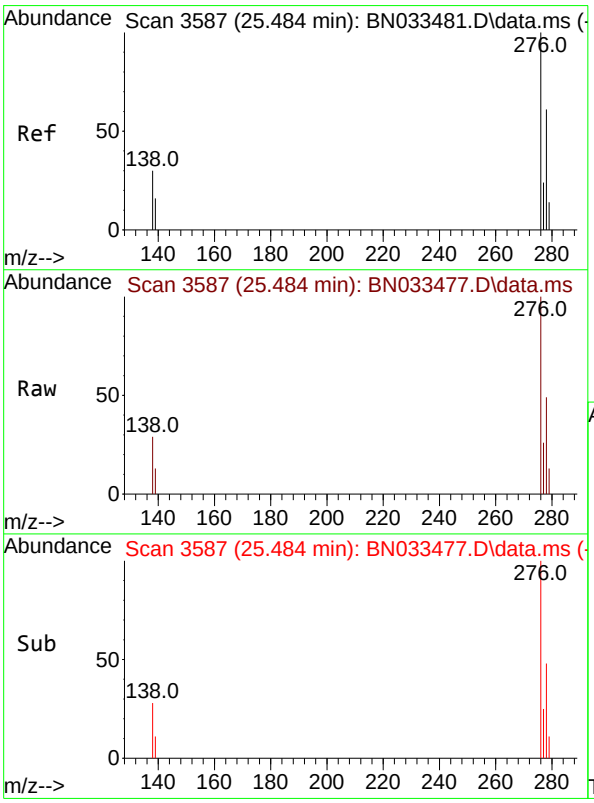
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.326 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 20658

Ion	Ratio	Lower	Upper
264	100		
260	25.8	20.8	31.2
265	55.8	52.2	78.2

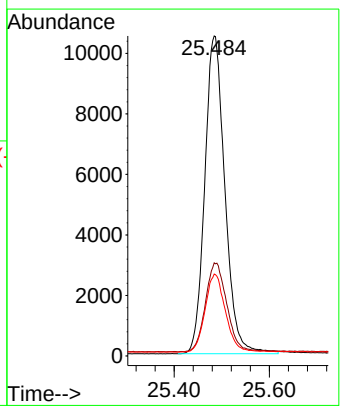


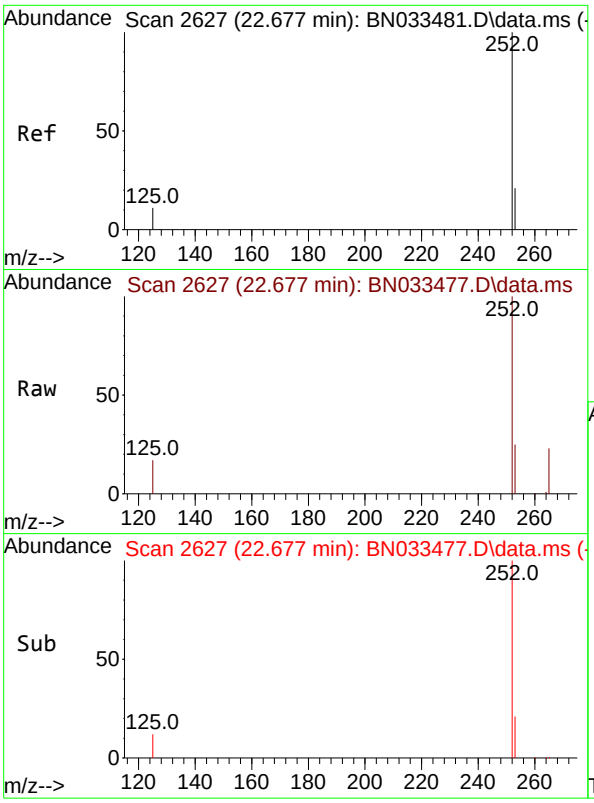


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.361 ng
RT: 25.484 min Scan# 3587
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:276 Resp: 30931

Ion	Ratio	Lower	Upper
276	100		
138	29.3	24.4	36.6
277	24.8	19.8	29.6



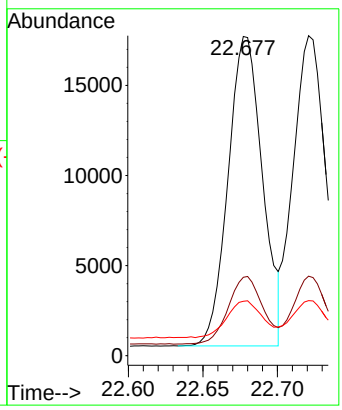


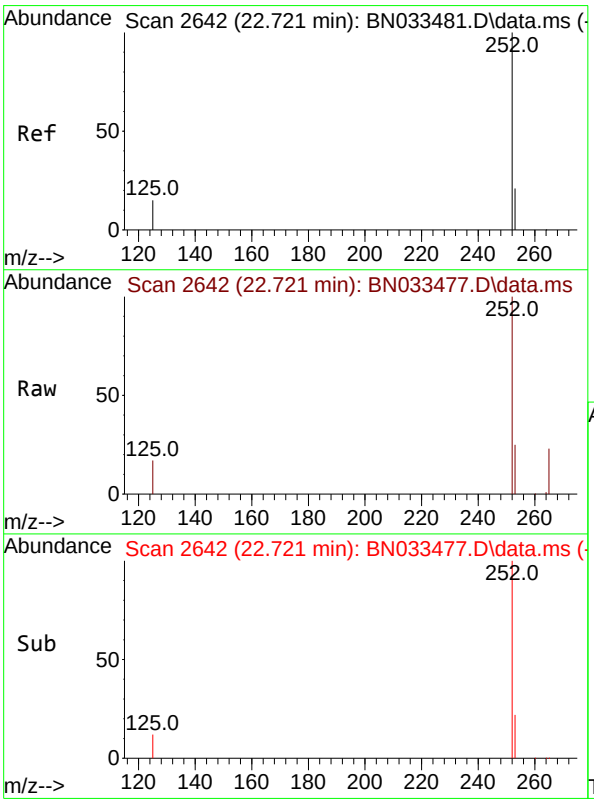
#37
Benzo(b)fluoranthene
Concen: 0.357 ng
RT: 22.677 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 27518

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.8	29.8
125	17.1	13.9	20.9

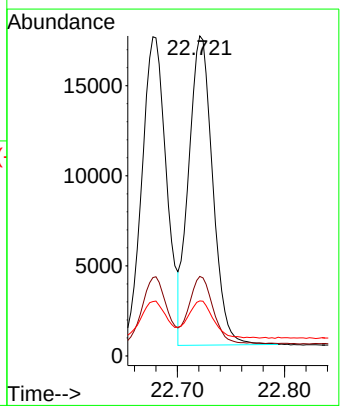


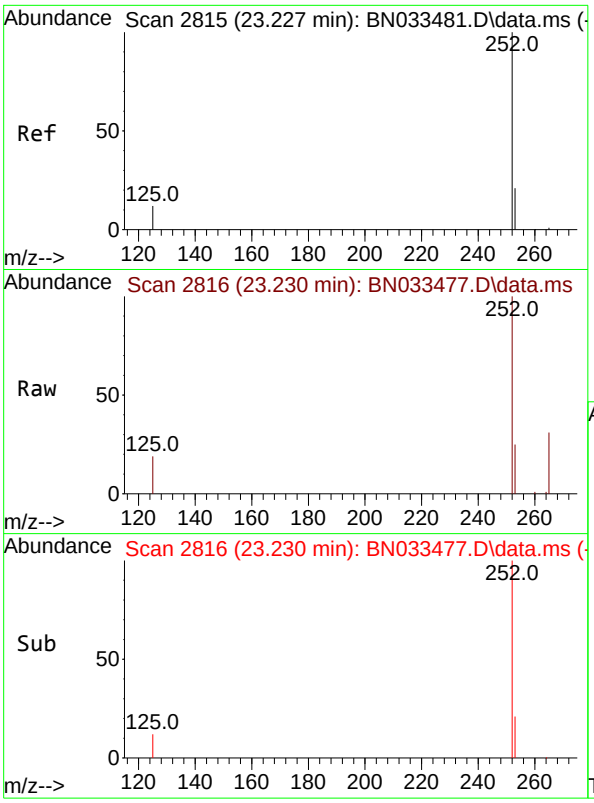


#38
Benzo(k)fluoranthene
Concen: 0.342 ng
RT: 22.721 min Scan# 2642
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:252 Resp: 26734

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.8	29.8
125	17.2	15.8	23.8



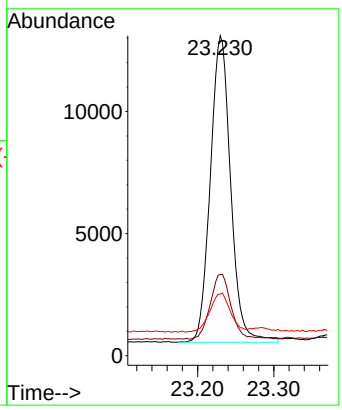


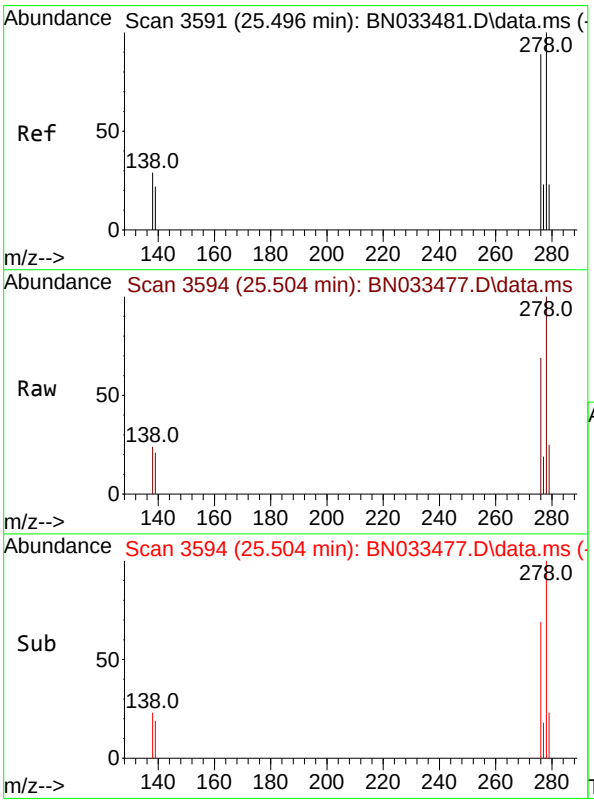
#39
Benzo(a)pyrene
Concen: 0.358 ng
RT: 23.230 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 23275

Ion	Ratio	Lower	Upper
252	100		
253	25.4	21.5	32.3
125	19.3	17.0	25.4

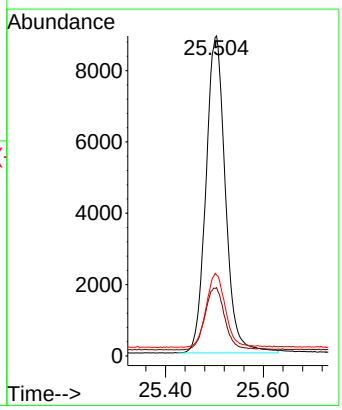


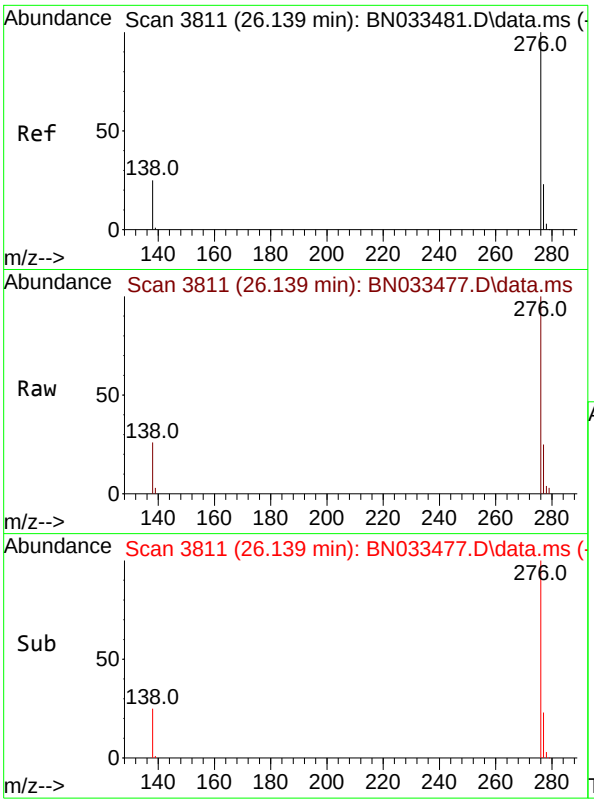


#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 25.504 min Scan# 3594
Delta R.T. 0.009 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Tgt Ion:278 Resp: 24468

Ion	Ratio	Lower	Upper
278	100		
139	21.3	19.1	28.7
279	25.3	21.0	31.4





#41
Benzo(g,h,i)perylene
Concen: 0.360 ng
RT: 26.139 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN033477.D
Acq: 19 Aug 2024 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 26809

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.7	29.5
138	26.5	21.8	32.6