Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122722\
Data File : BN023487.D
Acq On : 27 Dec 2022 13:59
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Dec 28 03:34:32 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:33:25 2022
Response via : Initial Calibration

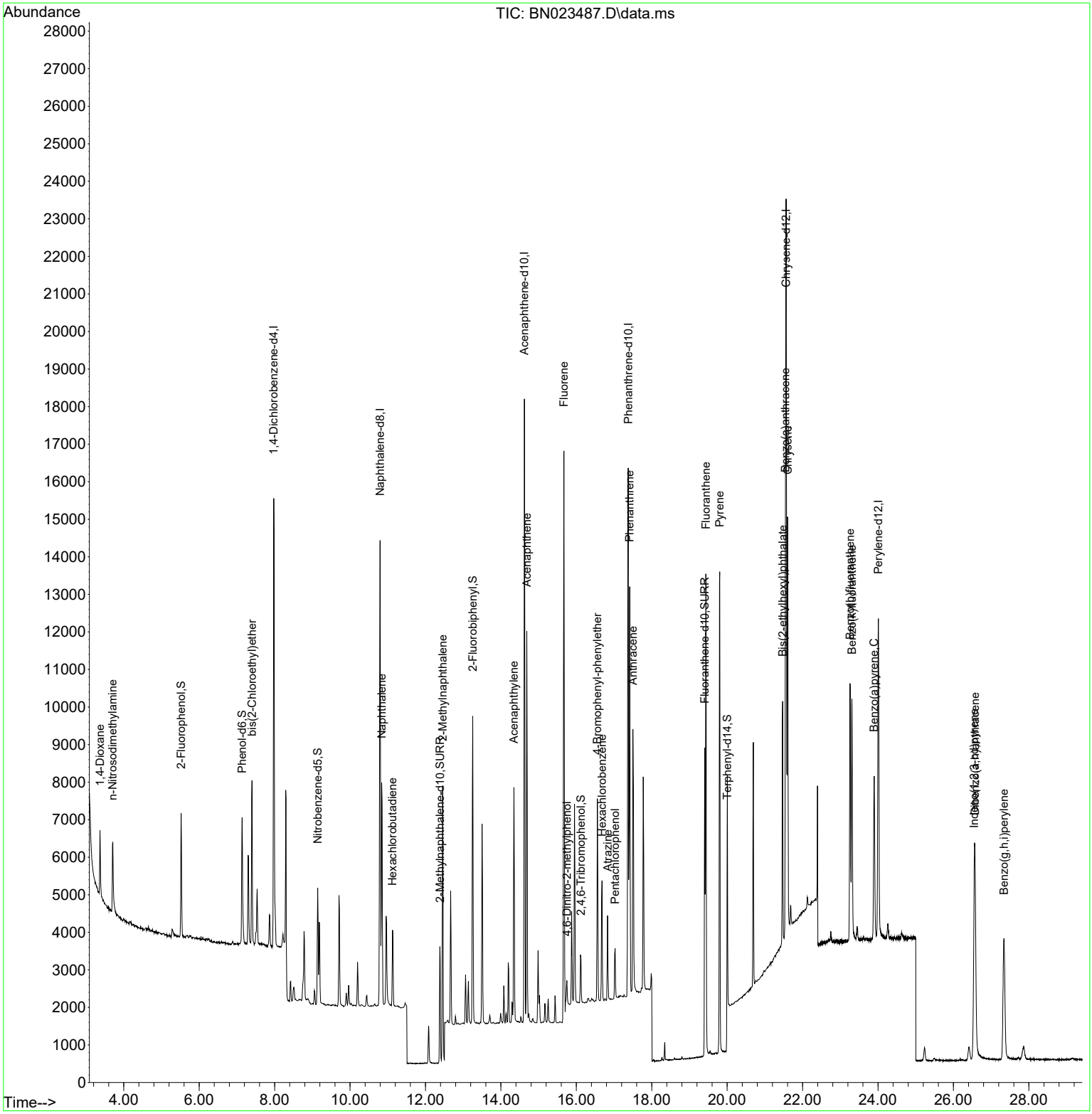
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.977	152	5782	0.400	ng		0.00
7) Naphthalene-d8	10.797	136	15957	0.400	ng		0.00
13) Acenaphthene-d10	14.624	164	9017	0.400	ng		0.00
19) Phenanthrene-d10	17.377	188	18988	0.400	ng		0.00
29) Chrysene-d12	21.563	240	15454	0.400	ng	#	0.00
35) Perylene-d12	24.009	264	12386	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.522	112	2574	0.160	ng		0.00
5) Phenol-d6	7.139	99	3118	0.163	ng		0.00
8) Nitrobenzene-d5	9.142	82	2350	0.182	ng		0.00
11) 2-Methylnaphthalene-d10	12.386	152	4188	0.153	ng		0.00
14) 2,4,6-Tribromophenol	16.124	330	794	0.234	ng		0.00
15) 2-Fluorobiphenyl	13.255	172	7068	0.190	ng		0.00
27) Fluoranthene-d10	19.406	212	8718	0.155	ng		0.00
31) Terphenyl-d14	20.000	244	6545	0.177	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.369	88	1166	0.154	ng		94
3) n-Nitrosodimethylamine	3.702	42	1330	0.193	ng	#	99
6) bis(2-Chloroethyl)ether	7.399	93	3082	0.187	ng		100
9) Naphthalene	10.840	128	7943	0.167	ng		98
10) Hexachlorobutadiene	11.128	225	1620	0.187	ng	#	98
12) 2-Methylnaphthalene	12.458	142	5769	0.182	ng		98
16) Acenaphthylene	14.346	152	6669	0.154	ng		99
17) Acenaphthene	14.688	154	4826	0.164	ng		99
18) Fluorene	15.671	166	6579	0.171	ng		97
20) 4,6-Dinitro-2-methylph...	15.751	198	428	0.176	ng	#	80
21) 4-Bromophenyl-phenylether	16.558	248	2147	0.194	ng		97
22) Hexachlorobenzene	16.682	284	2609	0.213	ng		100
23) Atrazine	16.831	200	1593	0.183	ng		99
24) Pentachlorophenol	17.030	266	769	0.267	ng		98
25) Phenanthrene	17.415	178	10360	0.162	ng		99
26) Anthracene	17.501	178	8136	0.147	ng		99
28) Fluoranthene	19.435	202	11198	0.160	ng		100
30) Pyrene	19.802	202	11459	0.175	ng		100
32) Benzo(a)anthracene	21.545	228	9775	0.177	ng		98
33) Chrysene	21.607	228	10090	0.165	ng		99
34) Bis(2-ethylhexyl)phtha...	21.473	149	6473	0.208	ng		99
36) Indeno(1,2,3-cd)pyrene	26.550	276	8519	0.154	ng		99
37) Benzo(b)fluoranthene	23.258	252	9063	0.190	ng	#	91
38) Benzo(k)fluoranthene	23.308	252	8657	0.170	ng	#	90
39) Benzo(a)pyrene	23.898	252	6686	0.162	ng	#	89
40) Dibenzo(a,h)anthracene	26.574	278	6442	0.146	ng		94
41) Benzo(g,h,i)perylene	27.342	276	7629	0.158	ng		95

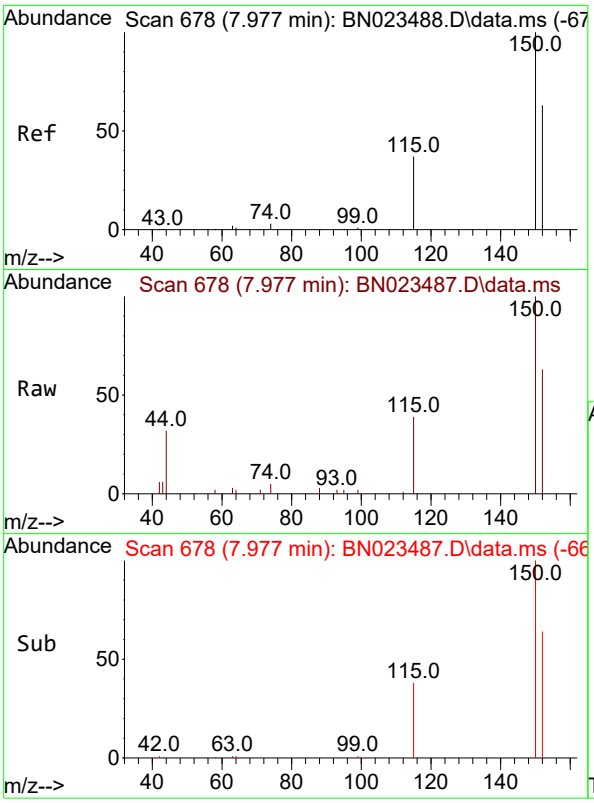
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122722\
Data File : BN023487.D
Acq On : 27 Dec 2022 13:59
Operator : CG/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Dec 28 03:34:32 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 03:33:25 2022
Response via : Initial Calibration



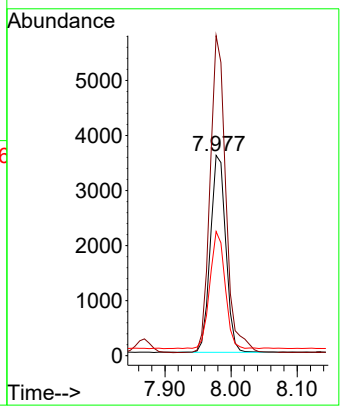


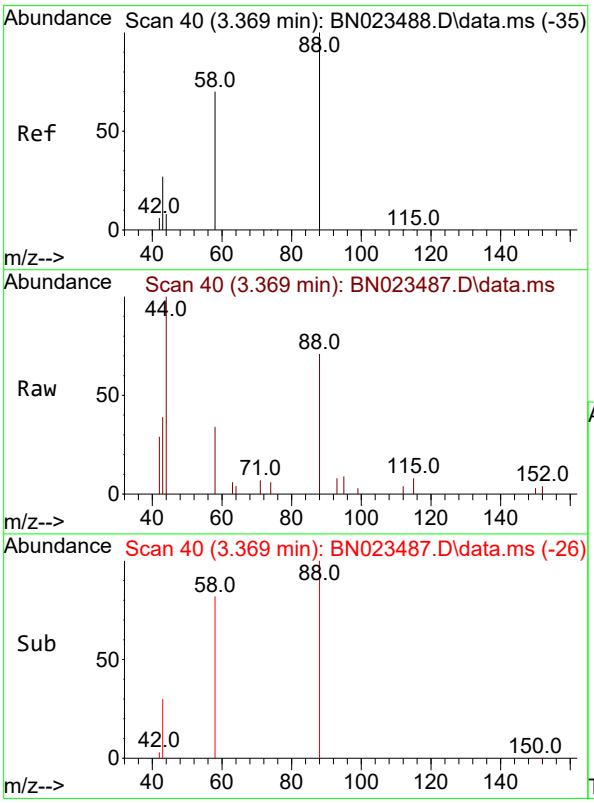
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.977 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 5782

Ion	Ratio	Lower	Upper
152	100		
150	159.8	125.0	187.6
115	62.0	48.8	73.2

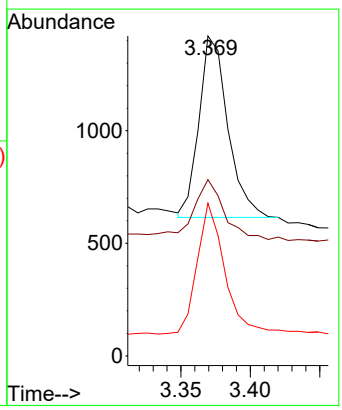


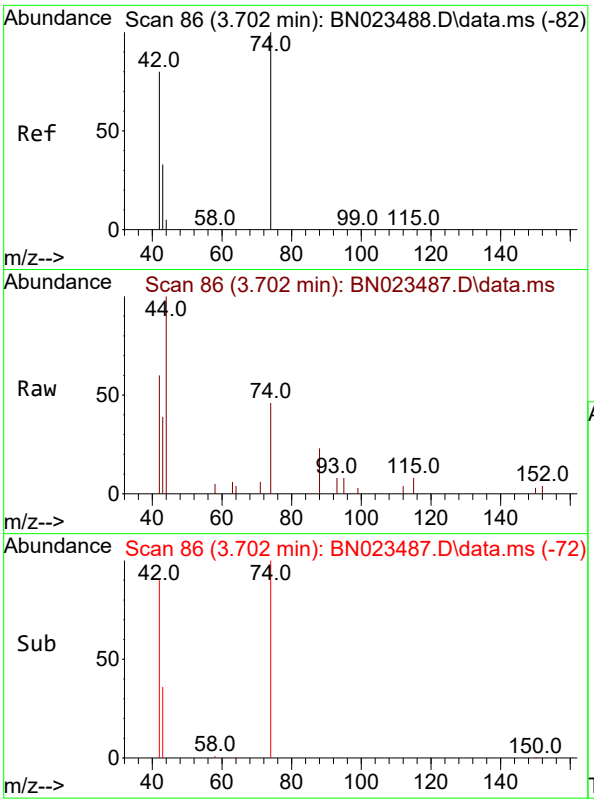


#2
1,4-Dioxane
Concen: 0.154 ng
RT: 3.369 min Scan# 40
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion: 88 Resp: 1166

Ion	Ratio	Lower	Upper
88	100		
43	35.8	24.6	36.8
58	68.4	58.2	87.4



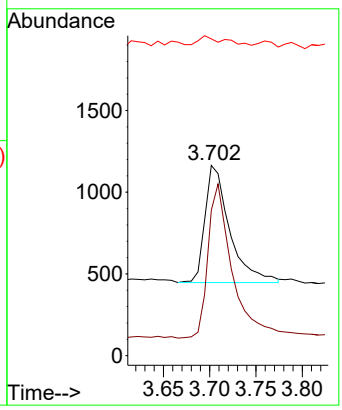


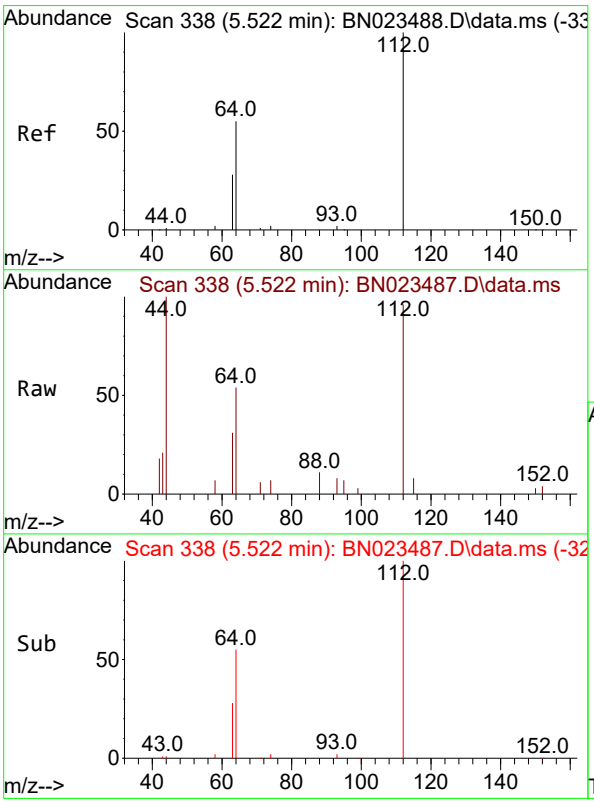
#3
n-Nitrosodimethylamine
Concen: 0.193 ng
RT: 3.702 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1330

Ion	Ratio	Lower	Upper
42	100		
74	128.5	102.1	153.1
44	9.6	5.6	8.4#

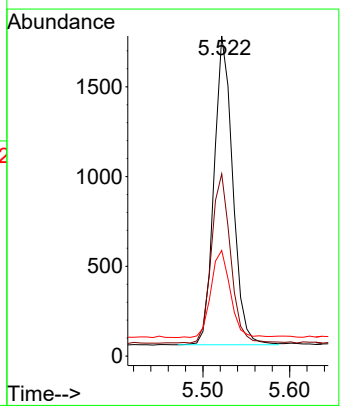


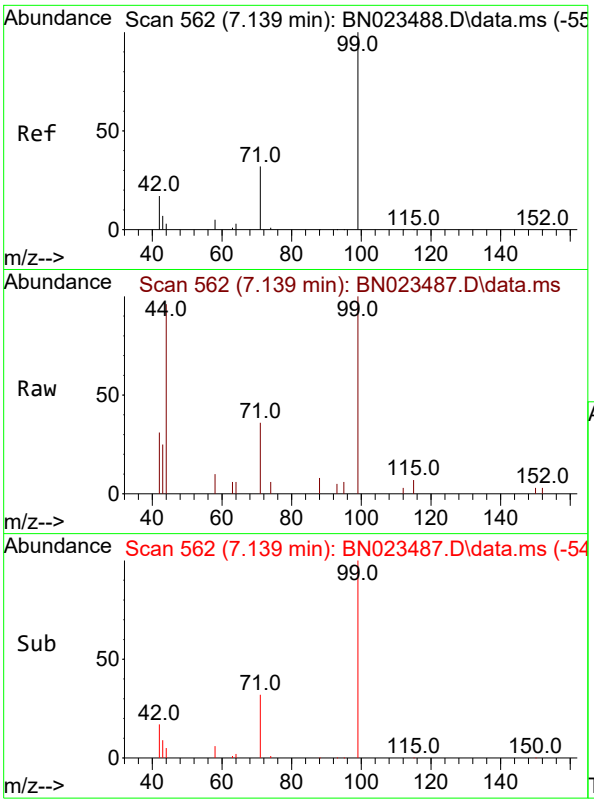


#4
2-Fluorophenol
Concen: 0.160 ng
RT: 5.522 min Scan# 338
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:112 Resp: 2574

Ion	Ratio	Lower	Upper
112	100		
64	56.4	44.3	66.5
63	29.4	23.8	35.6



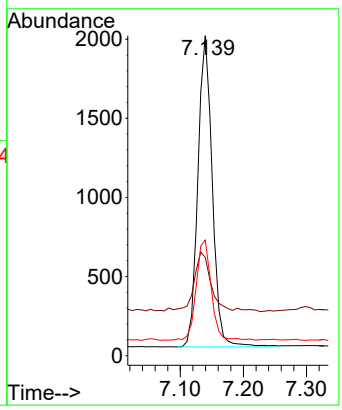


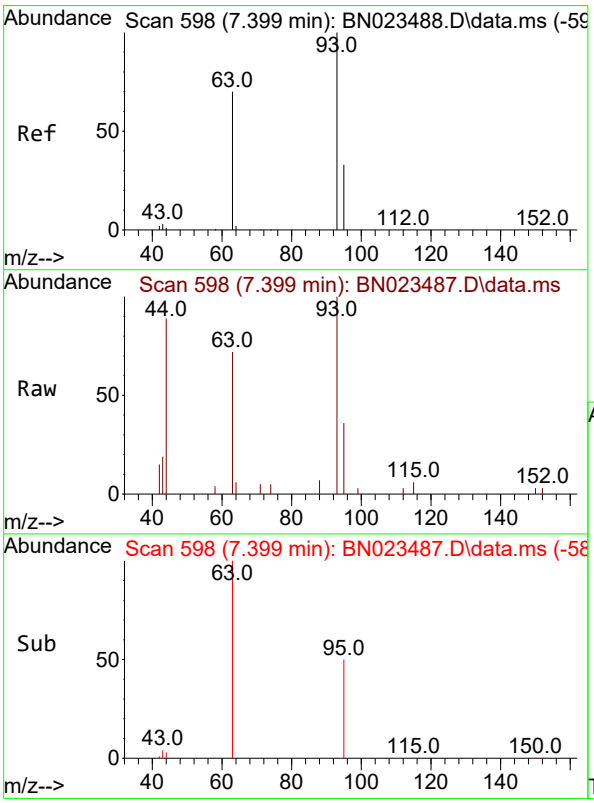
#5
Phenol-d6
Concen: 0.163 ng
RT: 7.139 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 3118

Ion	Ratio	Lower	Upper
99	100		
42	21.3	16.8	25.2
71	33.3	27.0	40.4

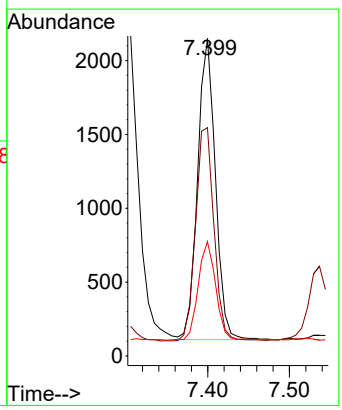


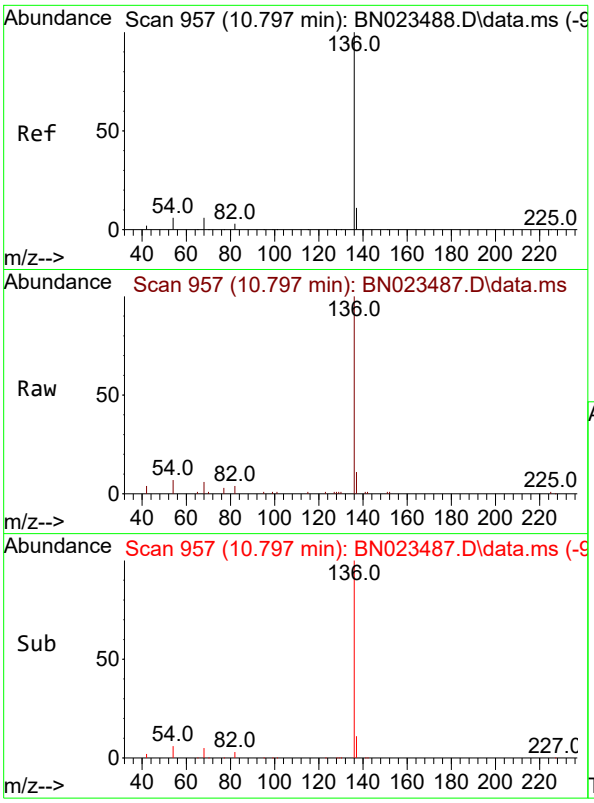


#6
bis(2-Chloroethyl)ether
Concen: 0.187 ng
RT: 7.399 min Scan# 598
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion: 93 Resp: 3082

Ion	Ratio	Lower	Upper
93	100		
63	73.8	58.9	88.3
95	32.4	26.1	39.1



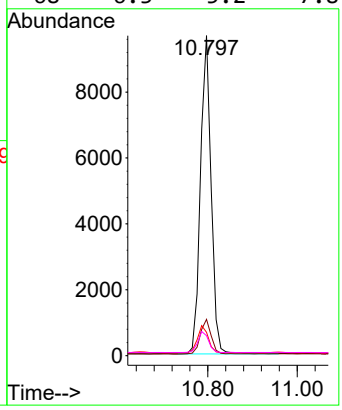


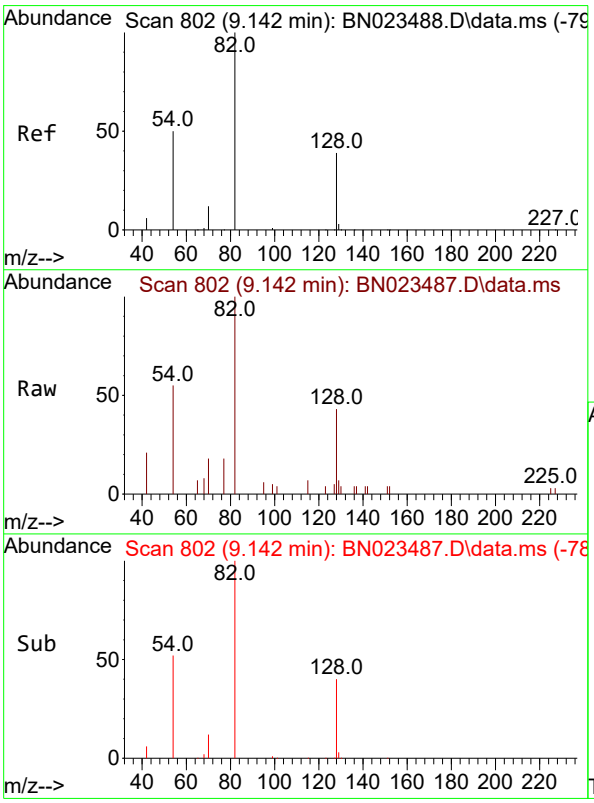
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.797 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 15957

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.3	5.8	8.8
68	6.3	5.2	7.8

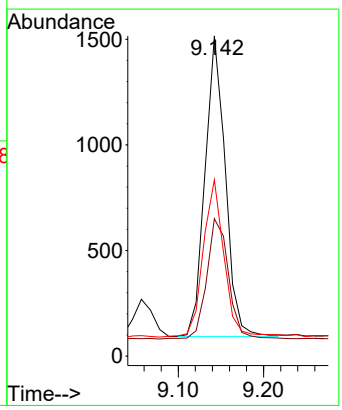


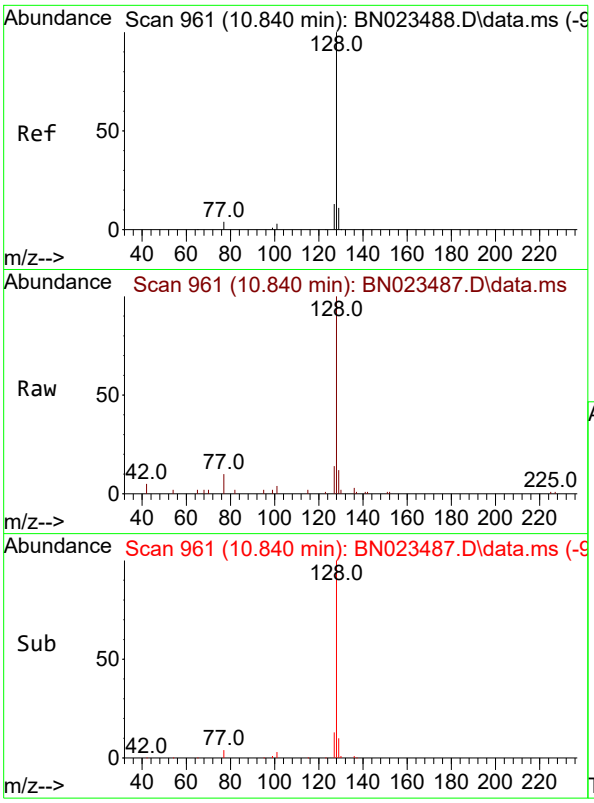


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 9.142 min Scan# 802
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion: 82 Resp: 2350

Ion	Ratio	Lower	Upper
82	100		
128	42.9	32.6	49.0
54	55.1	41.4	62.0



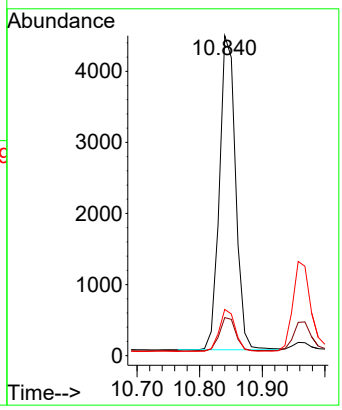


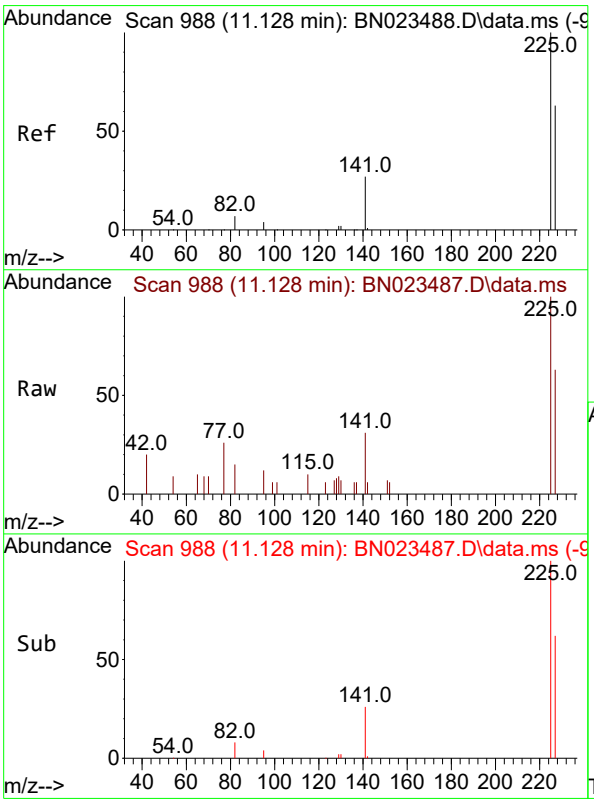
#9
Naphthalene
Concen: 0.167 ng
RT: 10.840 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 7943

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.1	13.7
127	14.5	11.0	16.4

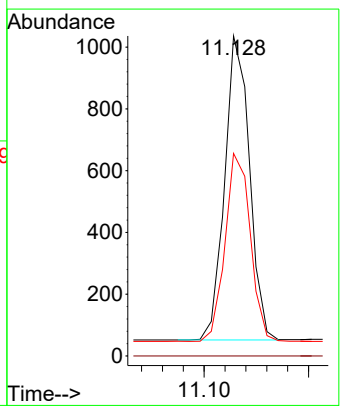


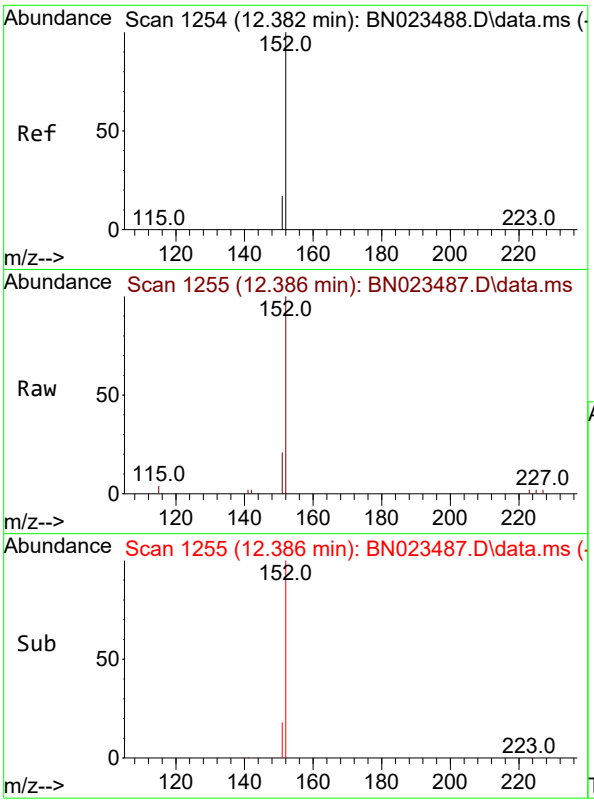


#10
Hexachlorobutadiene
Concen: 0.187 ng
RT: 11.128 min Scan# 988
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:225 Resp: 1620

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.8	77.8



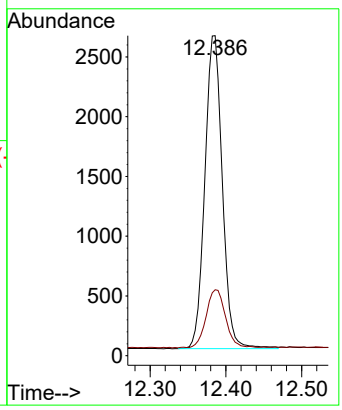


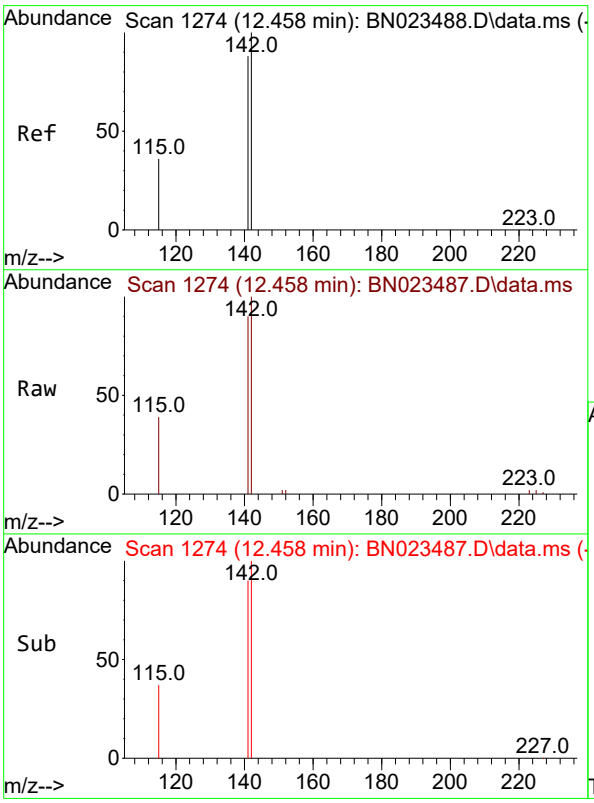
#11
2-Methylnaphthalene-d10
Concen: 0.153 ng
RT: 12.386 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 4188

Ion	Ratio	Lower	Upper
152	100		
151	20.7	14.8	22.2

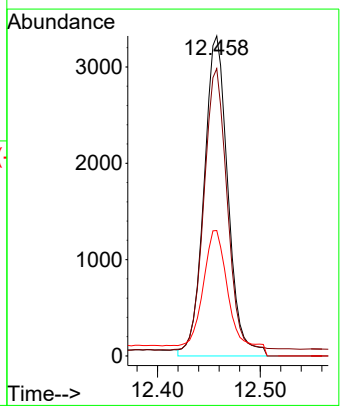


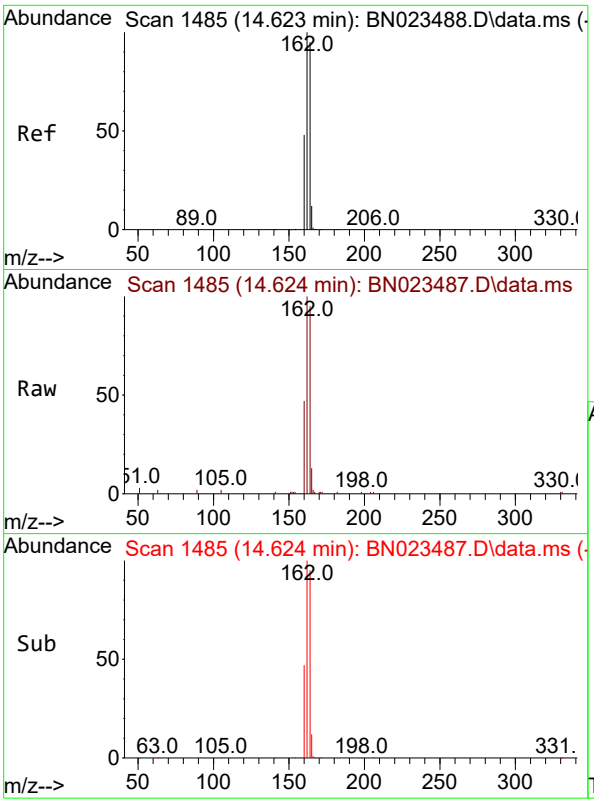


#12
2-Methylnaphthalene
Concen: 0.182 ng
RT: 12.458 min Scan# 1274
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:142 Resp: 5769

Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.5	105.7
115	39.2	29.5	44.3



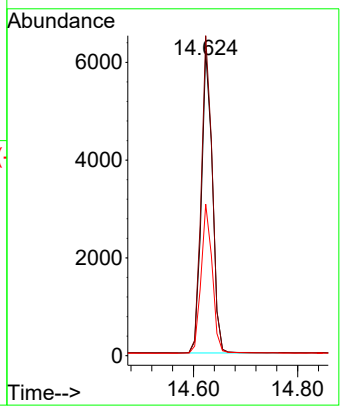


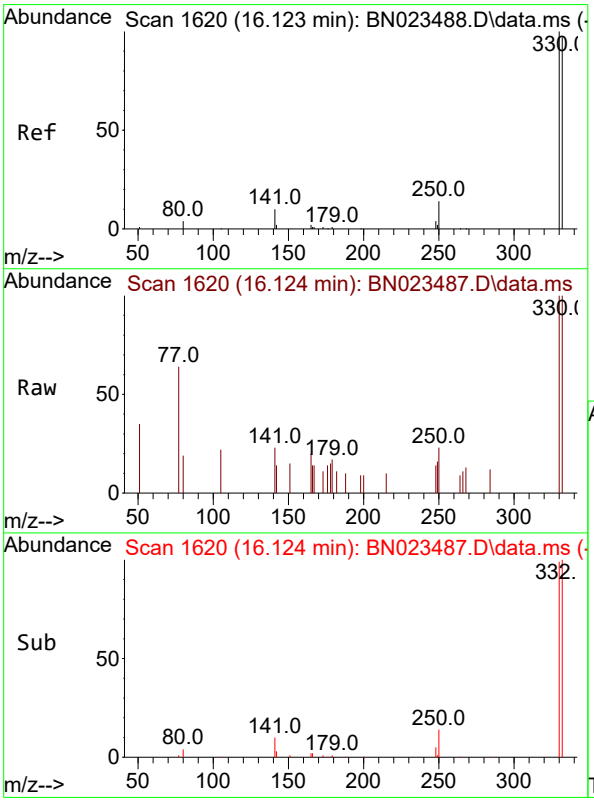
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.624 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 9017

Ion	Ratio	Lower	Upper
164	100		
162	105.0	83.9	125.9
160	49.7	40.9	61.3

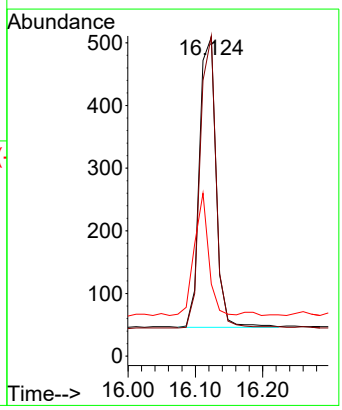


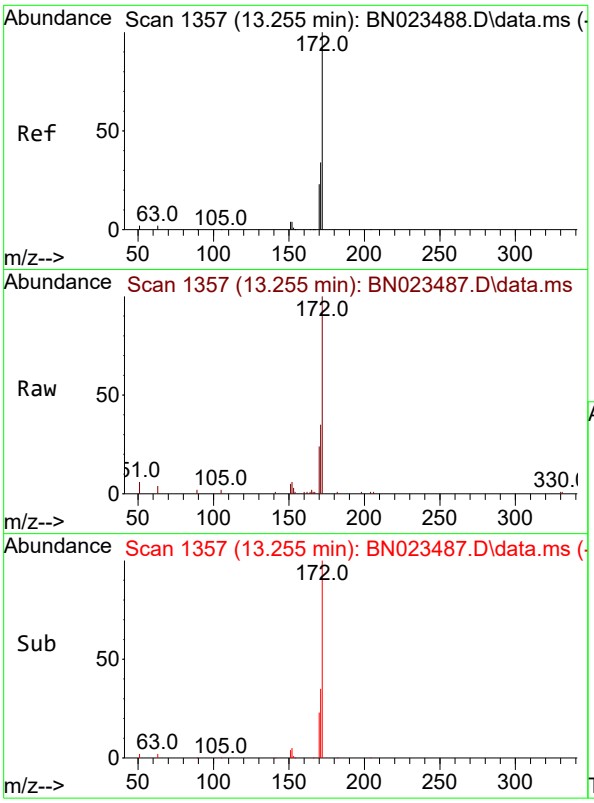


#14
2,4,6-Tribromophenol
Concen: 0.234 ng
RT: 16.124 min Scan# 1620
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:330 Resp: 794

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.7	115.1
141	36.1	29.8	44.6



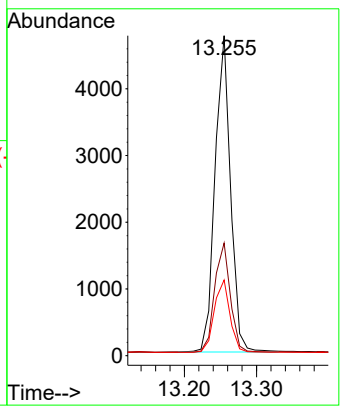


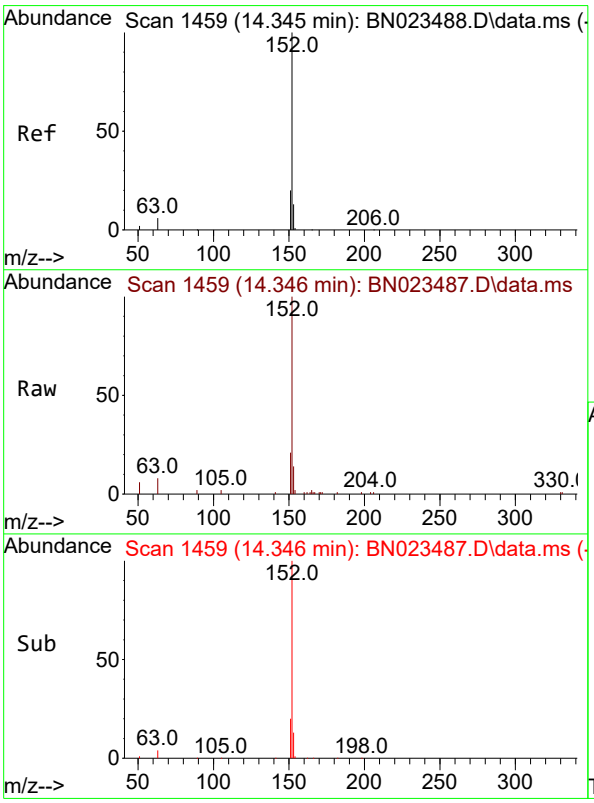
#15
2-Fluorobiphenyl
Concen: 0.190 ng
RT: 13.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 7068

Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.6	41.4
170	23.6	18.7	28.1

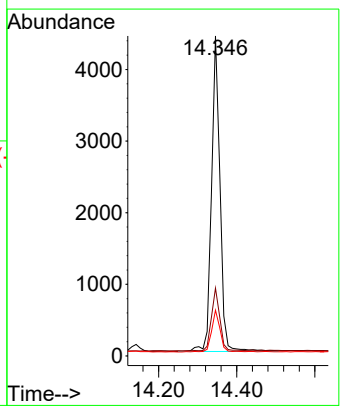


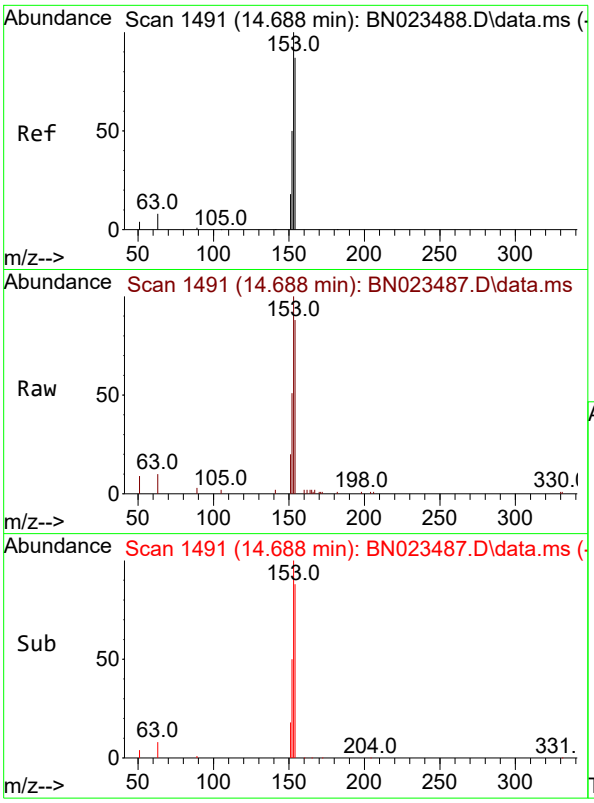


#16
Acenaphthylene
Concen: 0.154 ng
RT: 14.346 min Scan# 1459
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:152 Resp: 6669

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.4	23.2
153	13.3	10.3	15.5



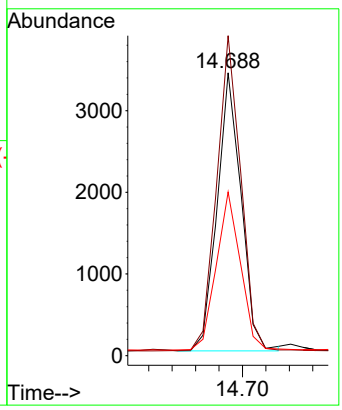


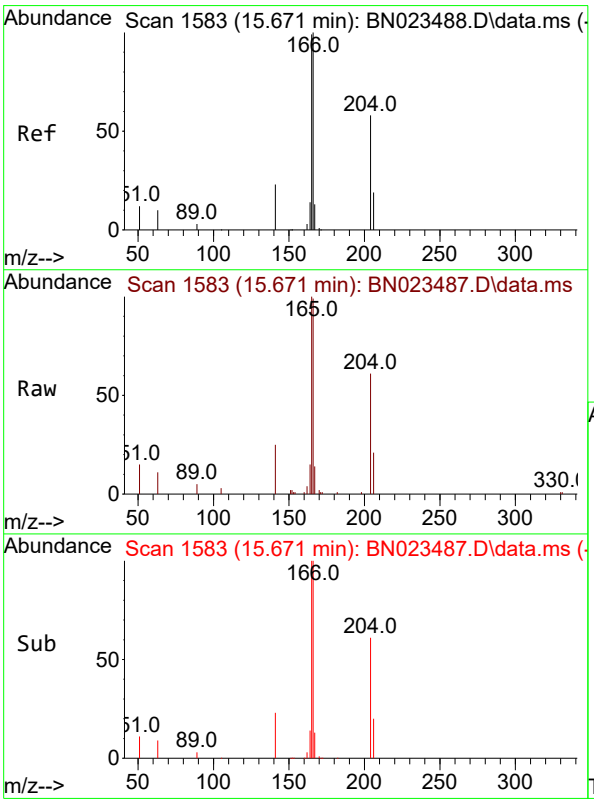
#17
Acenaphthene
Concen: 0.164 ng
RT: 14.688 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 4826

Ion	Ratio	Lower	Upper
154	100		
153	114.1	90.8	136.2
152	57.5	46.3	69.5

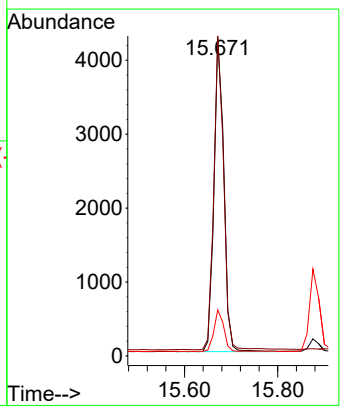


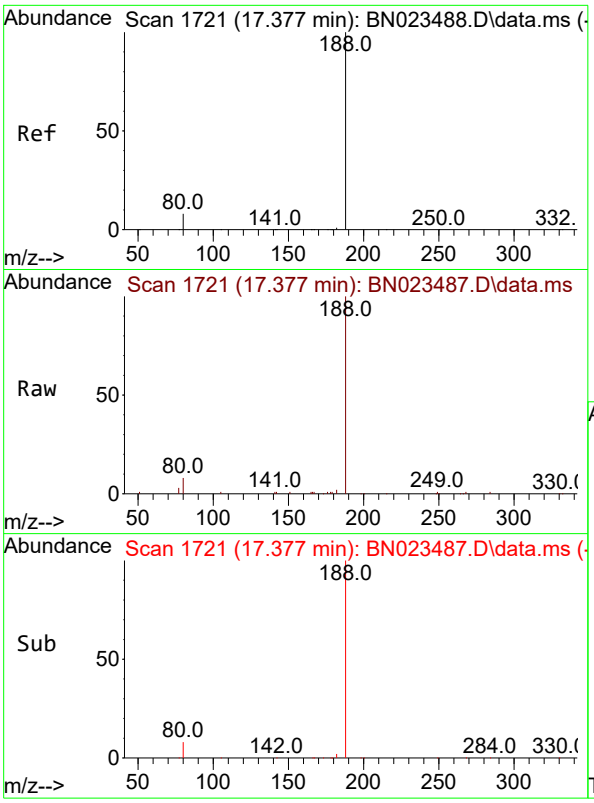


#18
Fluorene
Concen: 0.171 ng
RT: 15.671 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:166 Resp: 6579

Ion	Ratio	Lower	Upper
166	100		
165	101.7	79.0	118.6
167	12.7	10.6	16.0



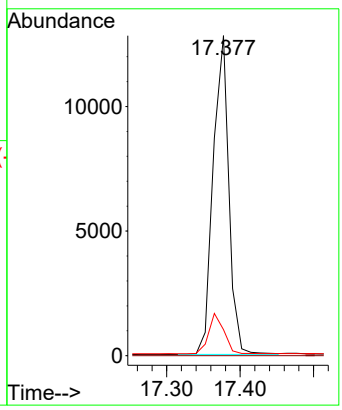


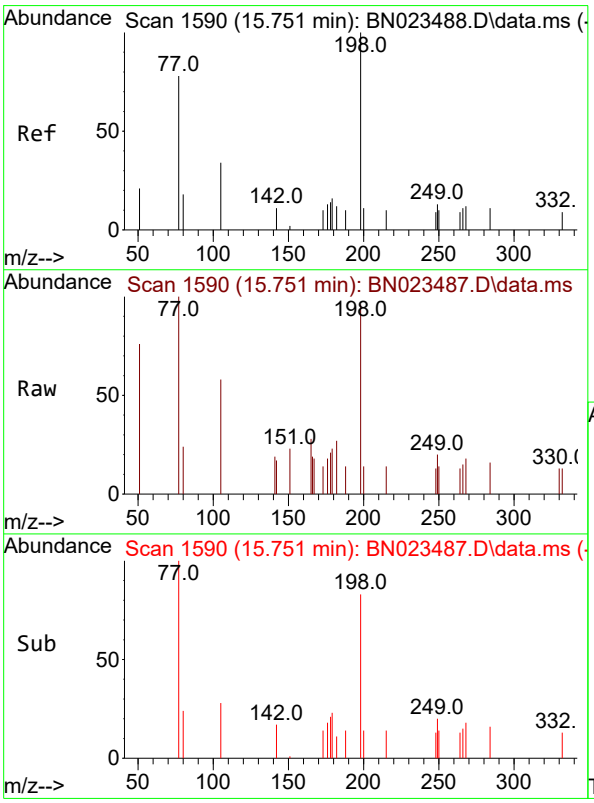
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.377 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 18988

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.1	6.7	10.1

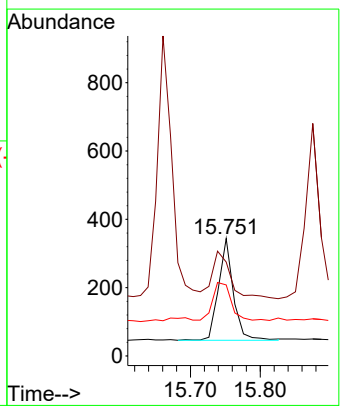


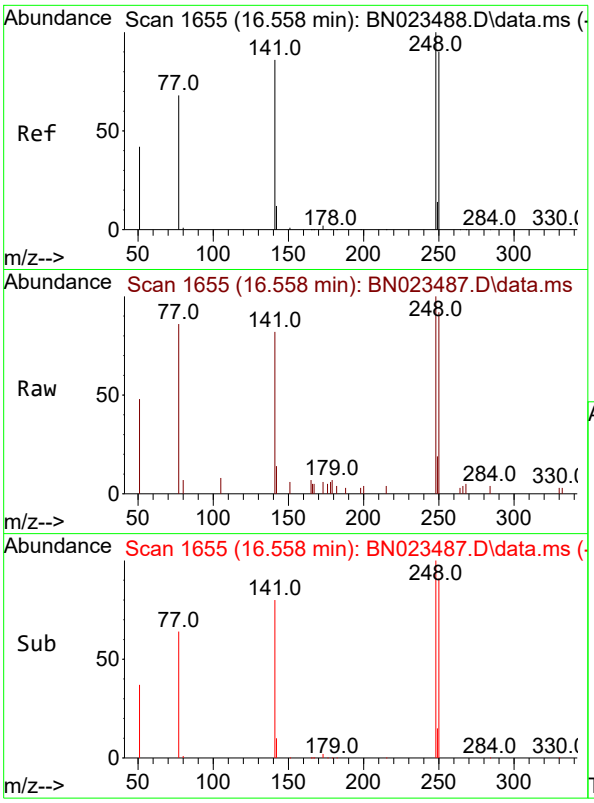


#20
4,6-Dinitro-2-methylphenol
Concen: 0.176 ng
RT: 15.751 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:198 Resp: 428

Ion	Ratio	Lower	Upper
198	100		
51	79.9	48.2	72.4#
105	60.5	41.0	61.4



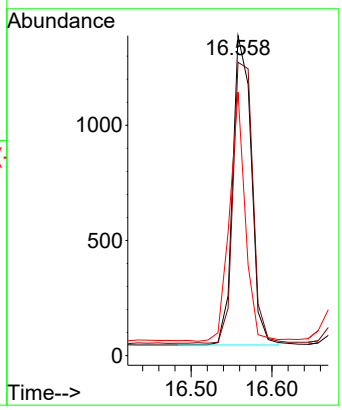


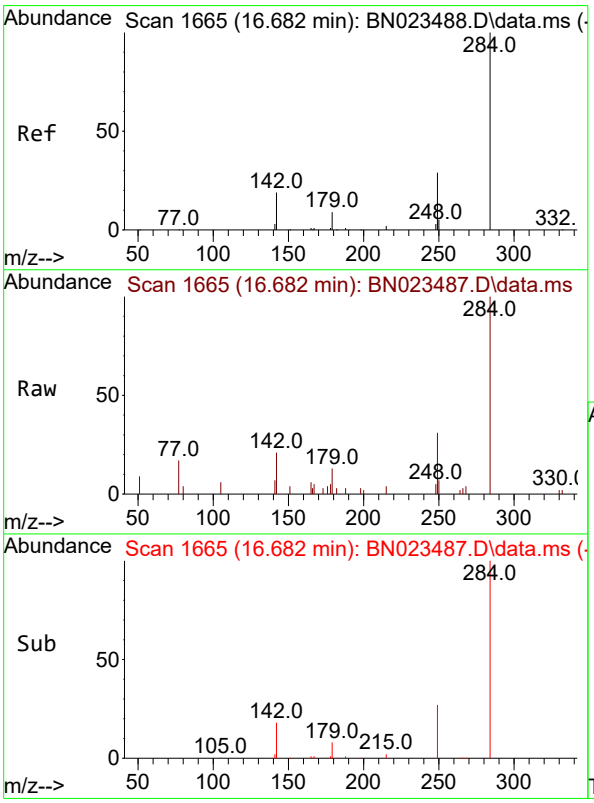
#21
4-Bromophenyl-phenylether
Concen: 0.194 ng
RT: 16.558 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 2147

Ion	Ratio	Lower	Upper
248	100		
250	91.7	72.6	108.8
141	82.4	69.4	104.0

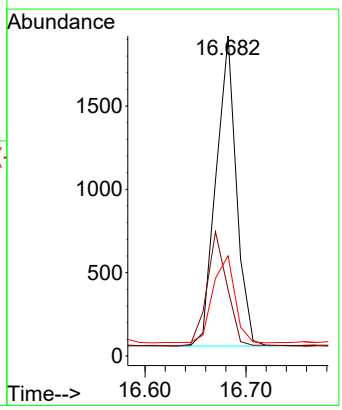


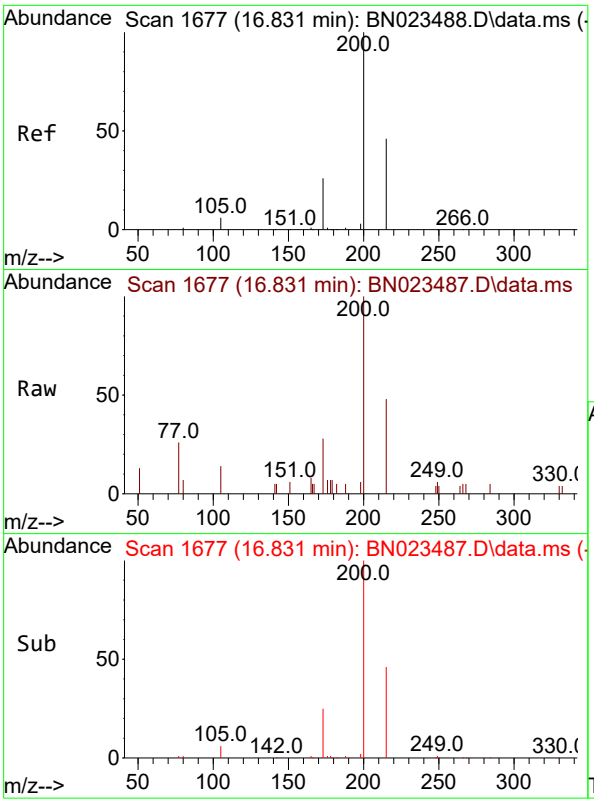


#22
Hexachlorobenzene
Concen: 0.213 ng
RT: 16.682 min Scan# 1665
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:284 Resp: 2609

Ion	Ratio	Lower	Upper
284	100		
142	36.3	29.0	43.6
249	30.5	24.5	36.7



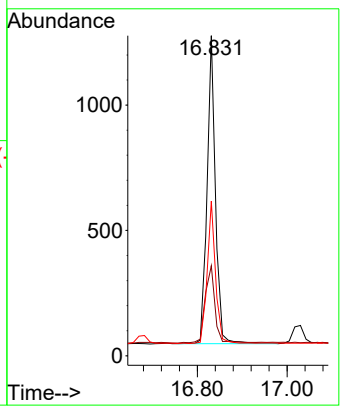


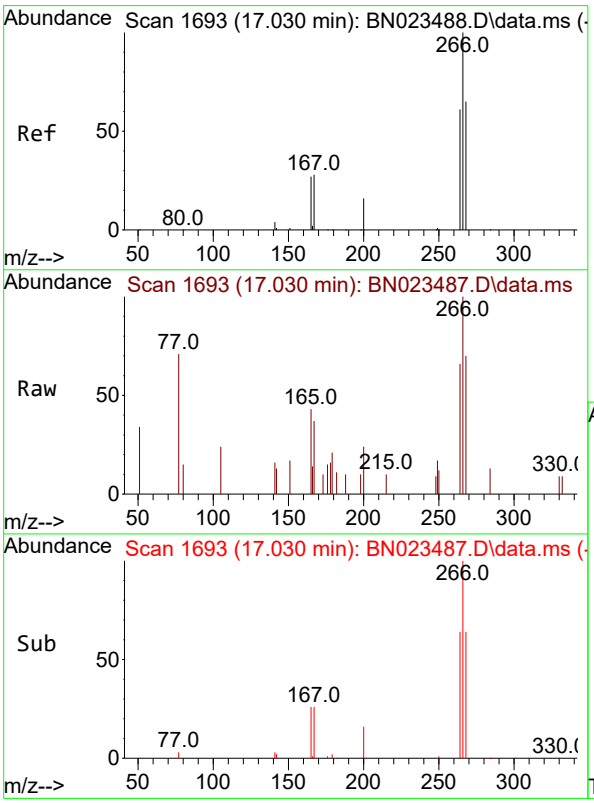
#23
Atrazine
Concen: 0.183 ng
RT: 16.831 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 1593

Ion	Ratio	Lower	Upper
200	100		
173	28.1	22.1	33.1
215	48.3	38.2	57.2

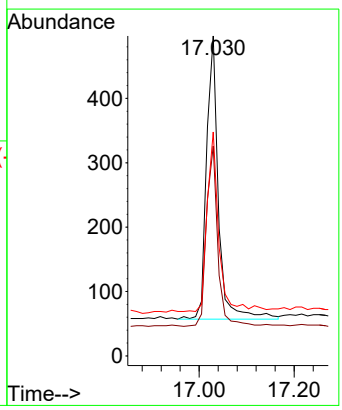


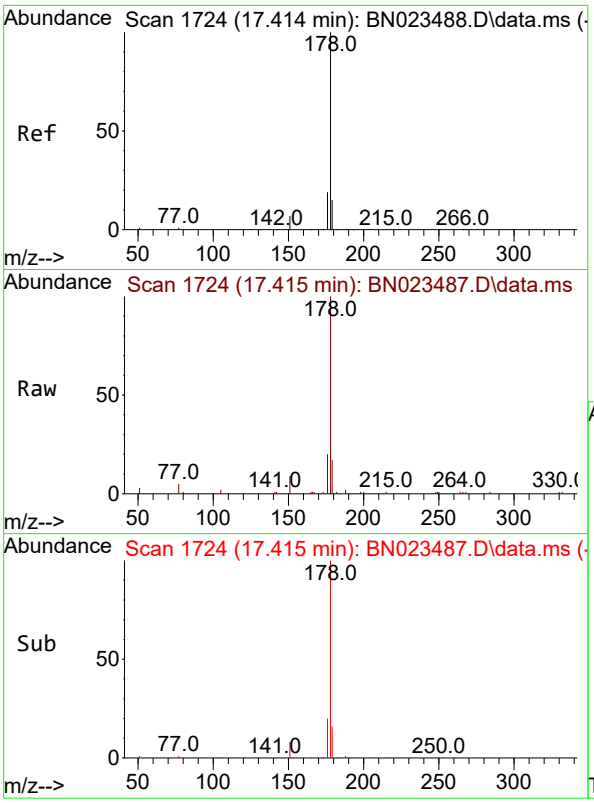


#24
Pentachlorophenol
Concen: 0.267 ng
RT: 17.030 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:266 Resp: 769

Ion	Ratio	Lower	Upper
266	100		
264	60.5	49.7	74.5
268	62.2	51.4	77.0



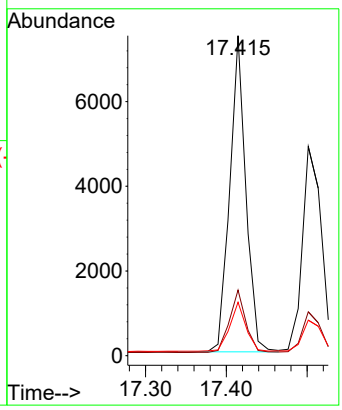


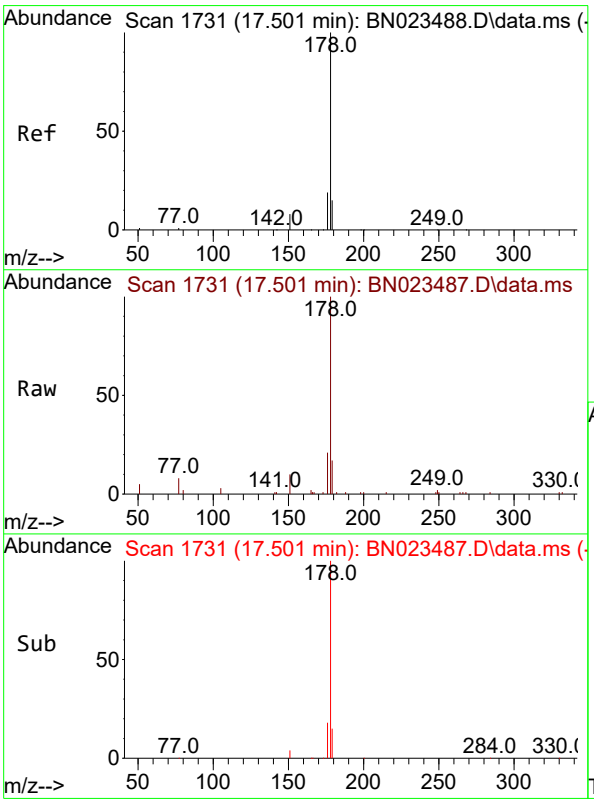
#25
Phenanthrene
Concen: 0.162 ng
RT: 17.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 10360

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.7	12.2	18.4

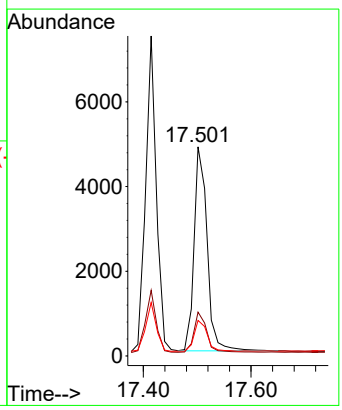


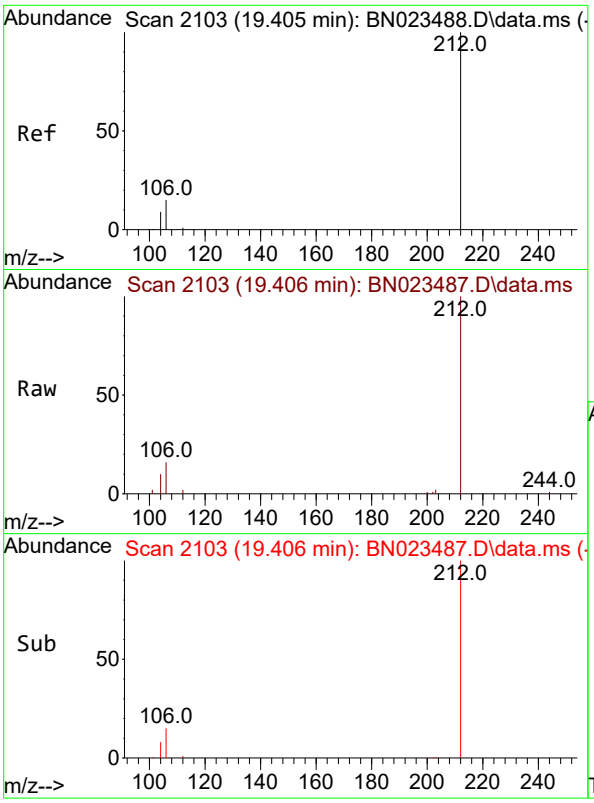


#26
Anthracene
Concen: 0.147 ng
RT: 17.501 min Scan# 1731
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:178 Resp: 8136

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	15.2	12.3	18.5



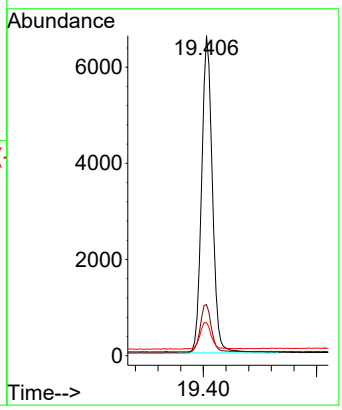


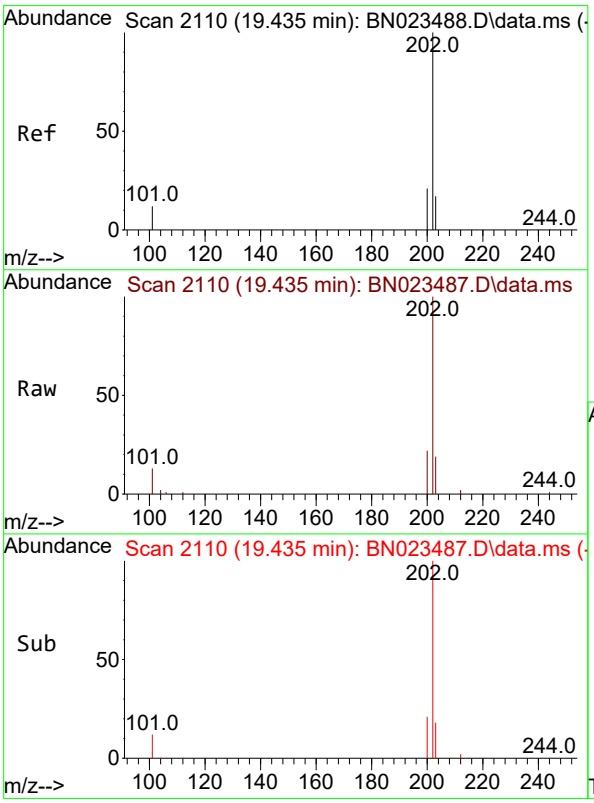
#27
Fluoranthene-d10
Concen: 0.155 ng
RT: 19.406 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 8718

Ion	Ratio	Lower	Upper
212	100		
106	15.3	12.3	18.5
104	8.9	6.8	10.2

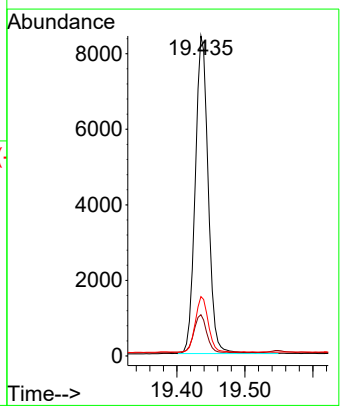


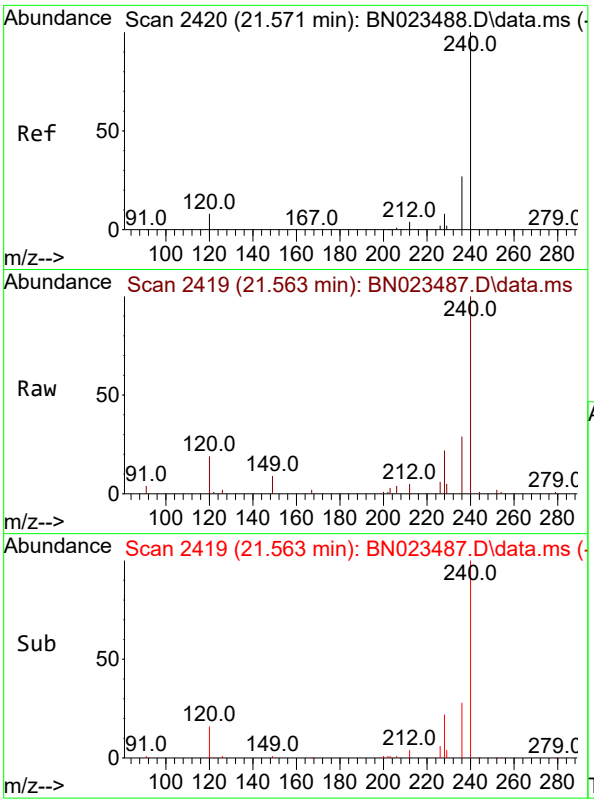


#28
Fluoranthene
Concen: 0.160 ng
RT: 19.435 min Scan# 2110
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:202 Resp: 11198

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.6	14.4
203	17.3	13.8	20.8



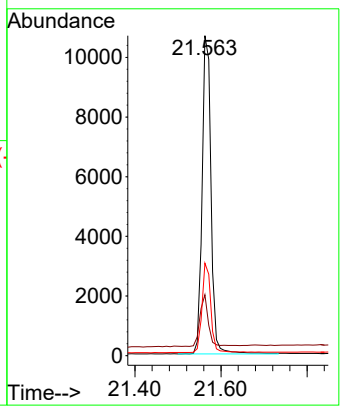


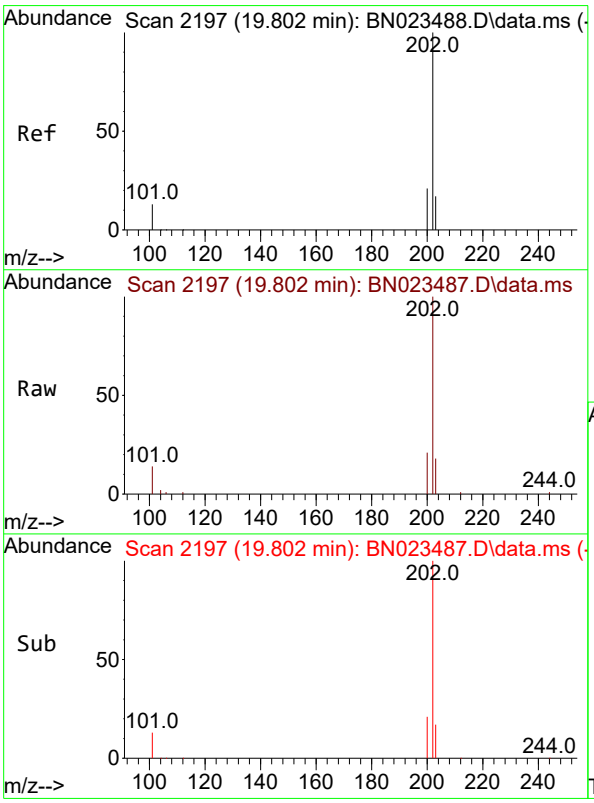
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.563 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 15454

Ion	Ratio	Lower	Upper
240	100		
120	19.1	8.9	13.3#
236	28.9	22.5	33.7

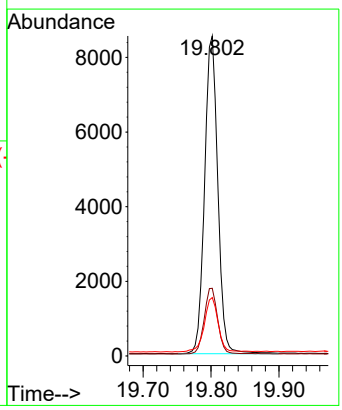


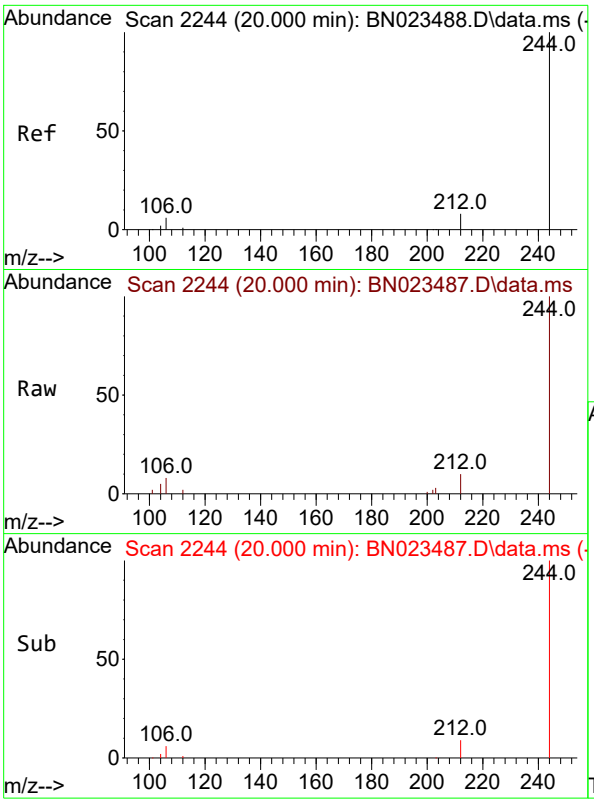


#30
Pyrene
Concen: 0.175 ng
RT: 19.802 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:202 Resp: 11459

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.2	14.4	21.6



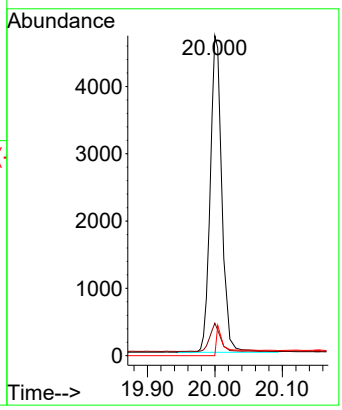


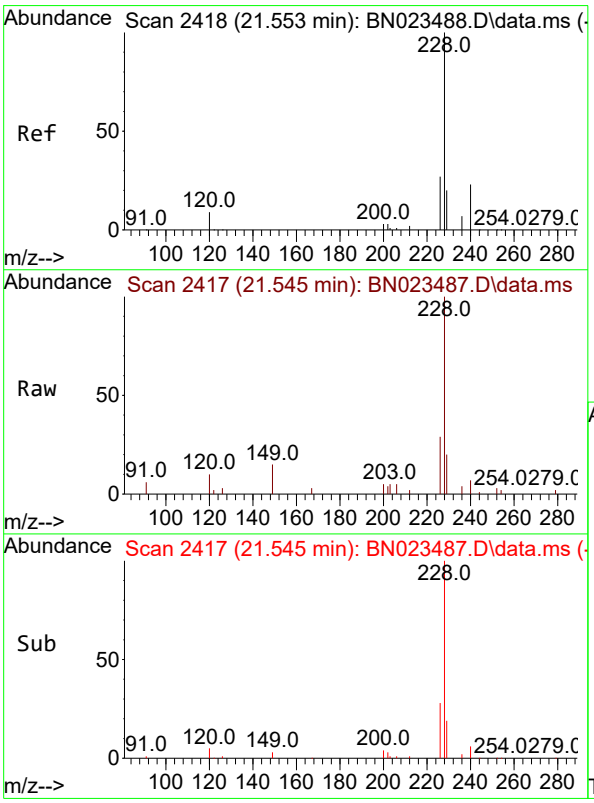
#31
Terphenyl-d14
Concen: 0.177 ng
RT: 20.000 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 6545

Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.4	11.0
122	0.0	0.0	0.0

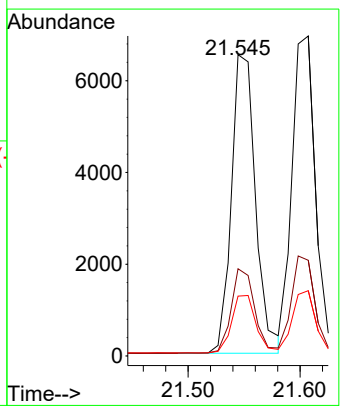


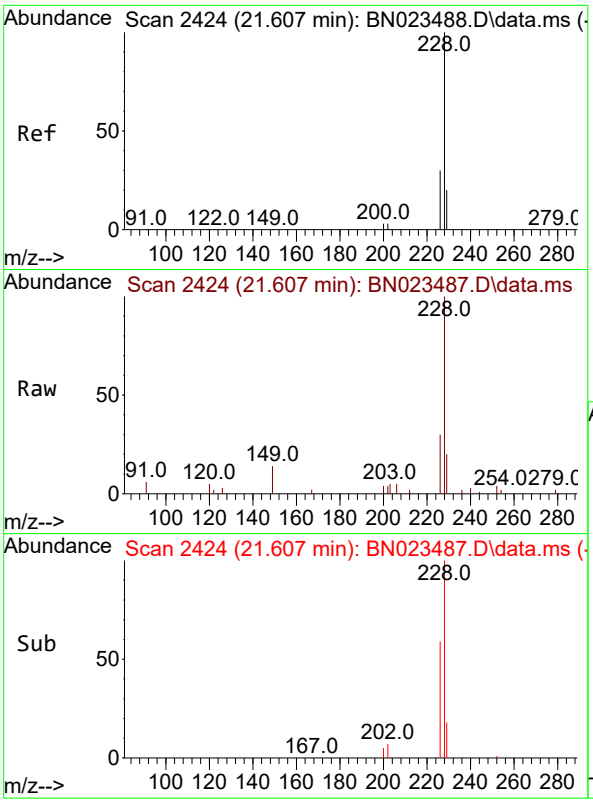


#32
Benzo(a)anthracene
Concen: 0.177 ng
RT: 21.545 min Scan# 2417
Delta R.T. -0.009 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:228 Resp: 9775

Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.8	32.8
229	19.9	16.0	24.0



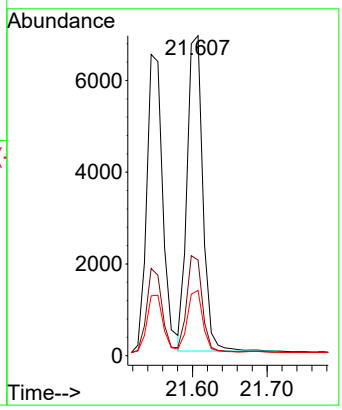


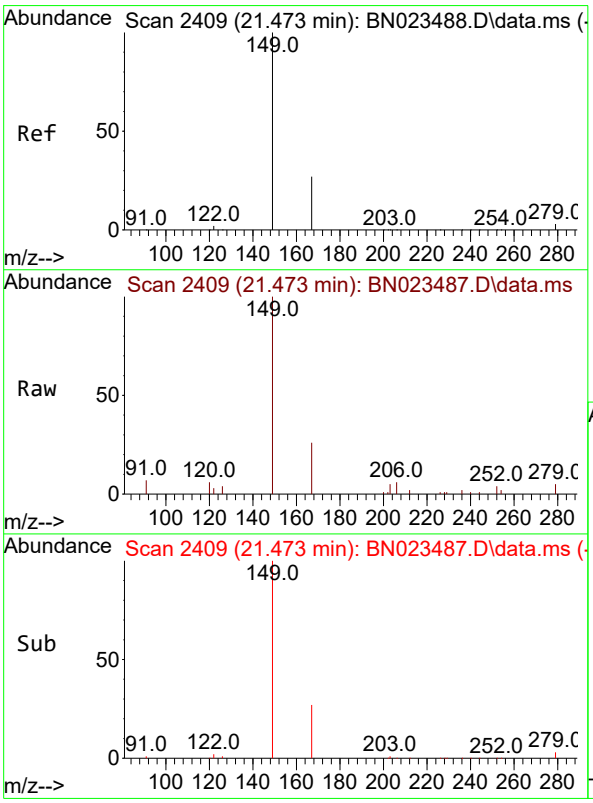
#33
Chrysene
Concen: 0.165 ng
RT: 21.607 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 10090

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	20.4	16.0	24.0

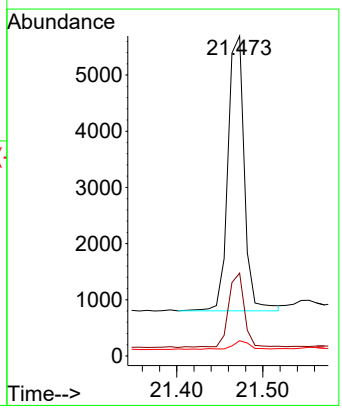


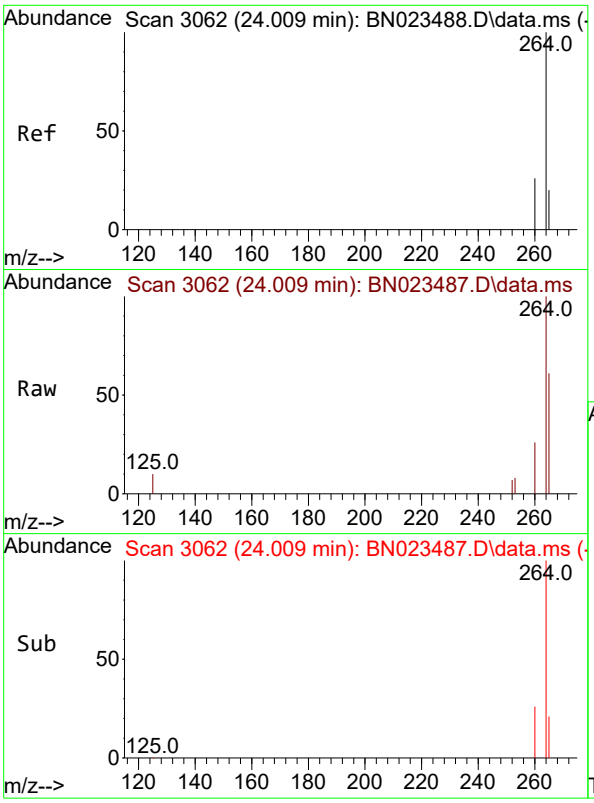


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.208 ng
RT: 21.473 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:149 Resp: 6473

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.0	31.6
279	3.3	2.2	3.4



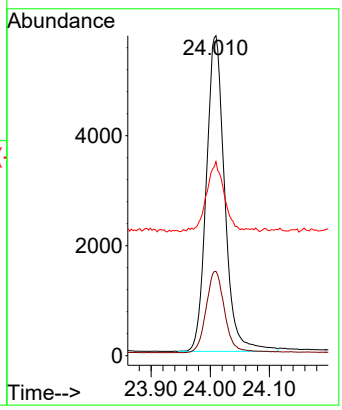


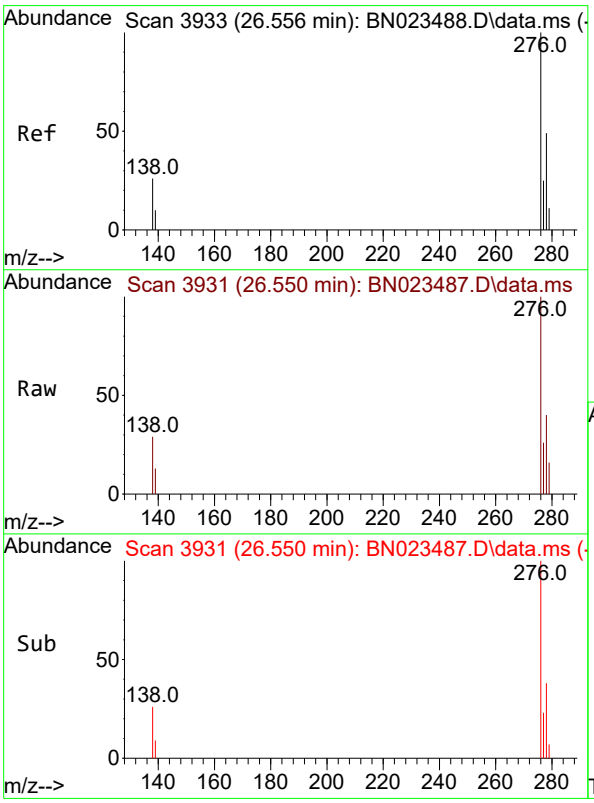
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.009 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 12386

Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.1	31.7
265	60.6	48.9	73.3

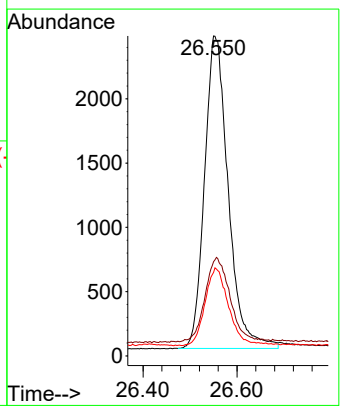


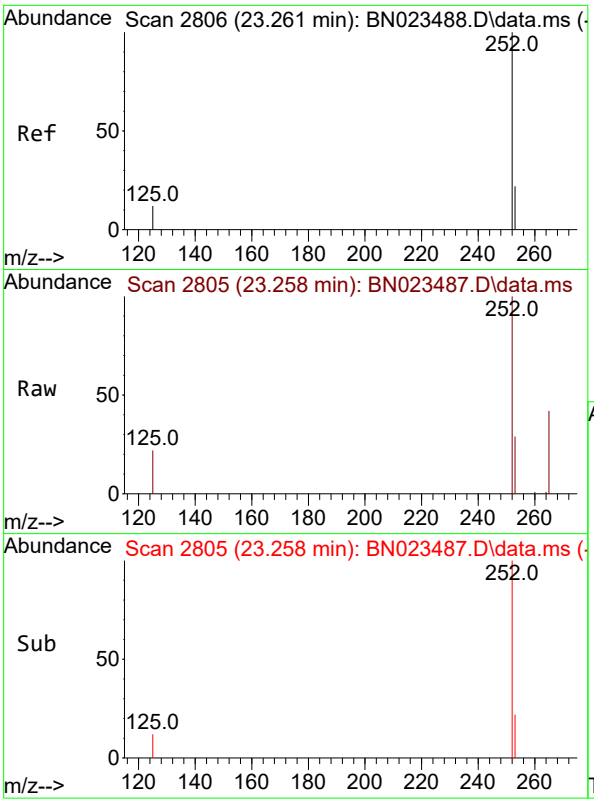


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.154 ng
RT: 26.550 min Scan# 3931
Delta R.T. -0.006 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:276 Resp: 8519

Ion	Ratio	Lower	Upper
276	100		
138	27.9	23.0	34.6
277	24.7	19.5	29.3



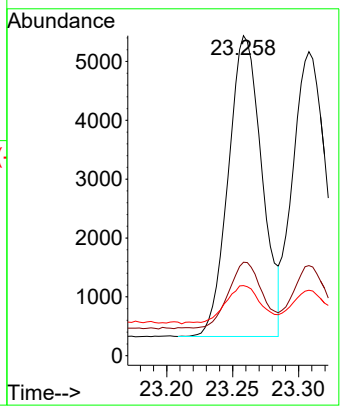


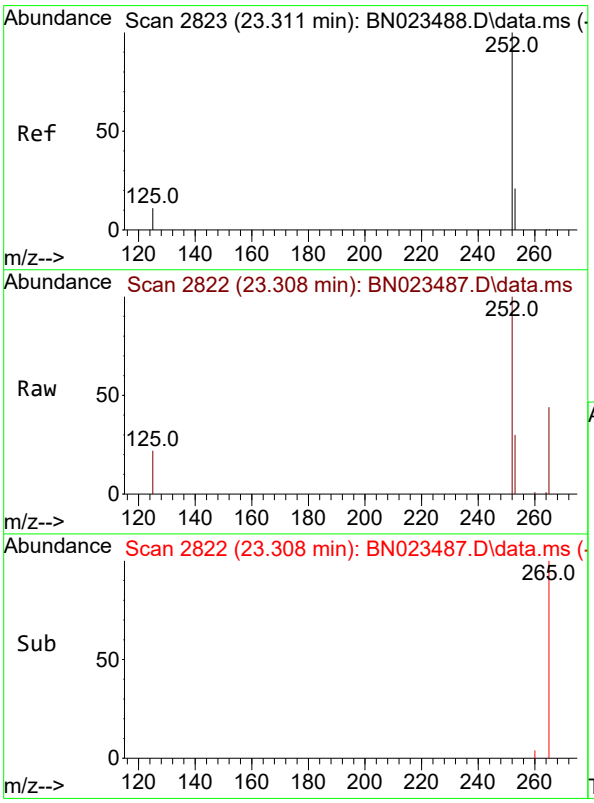
#37
Benzo(b)fluoranthene
Concen: 0.190 ng
RT: 23.258 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 9063

Ion	Ratio	Lower	Upper
252	100		
253	29.2	20.7	31.1
125	21.9	13.4	20.2#

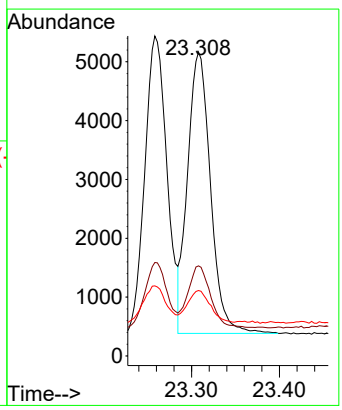


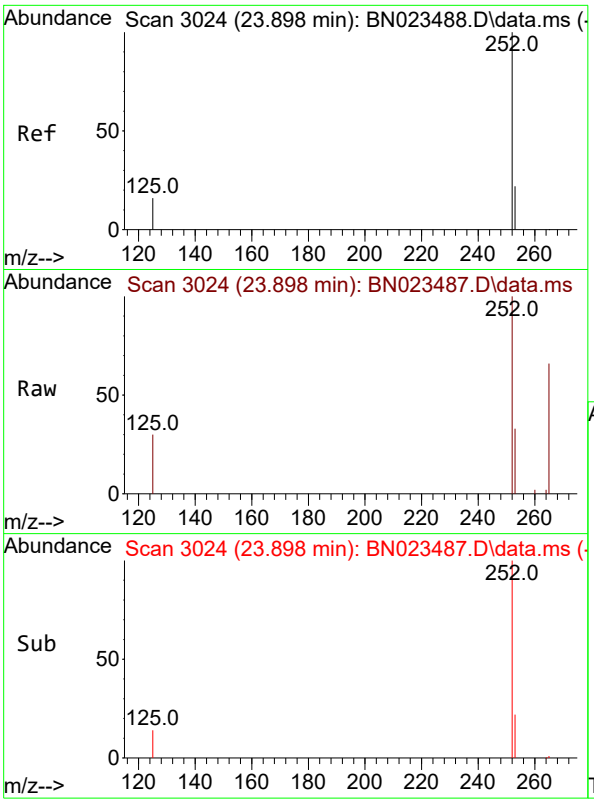


#38
Benzo(k)fluoranthene
Concen: 0.170 ng
RT: 23.308 min Scan# 2822
Delta R.T. -0.003 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:252 Resp: 8657

Ion	Ratio	Lower	Upper
252	100		
253	29.6	20.2	30.4
125	21.5	13.0	19.6#



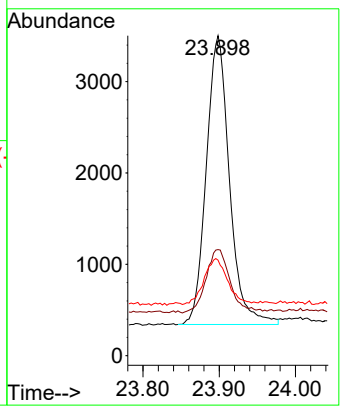


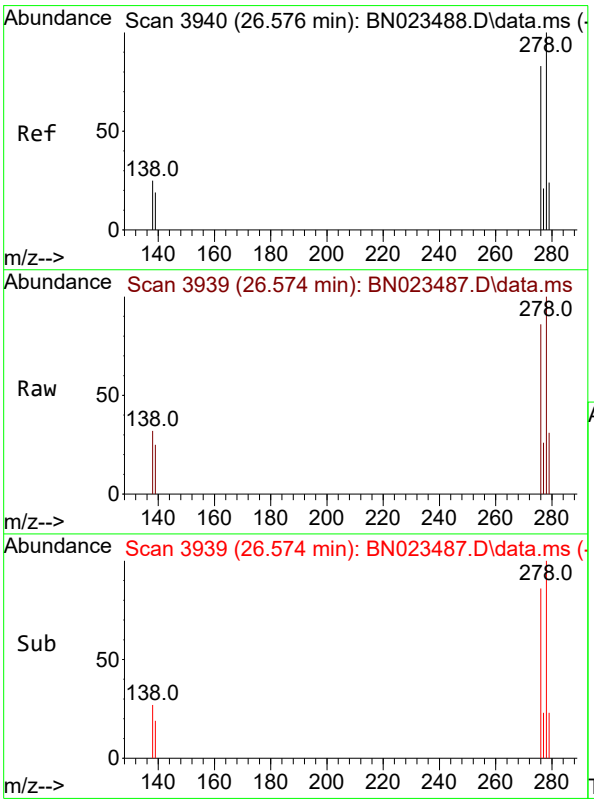
#39
Benzo(a)pyrene
Concen: 0.162 ng
RT: 23.898 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6686

Ion	Ratio	Lower	Upper
252	100		
253	33.2	22.3	33.5
125	29.9	18.7	28.1#

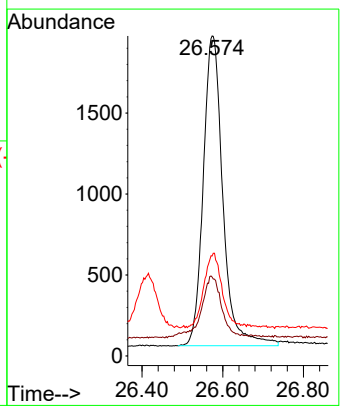


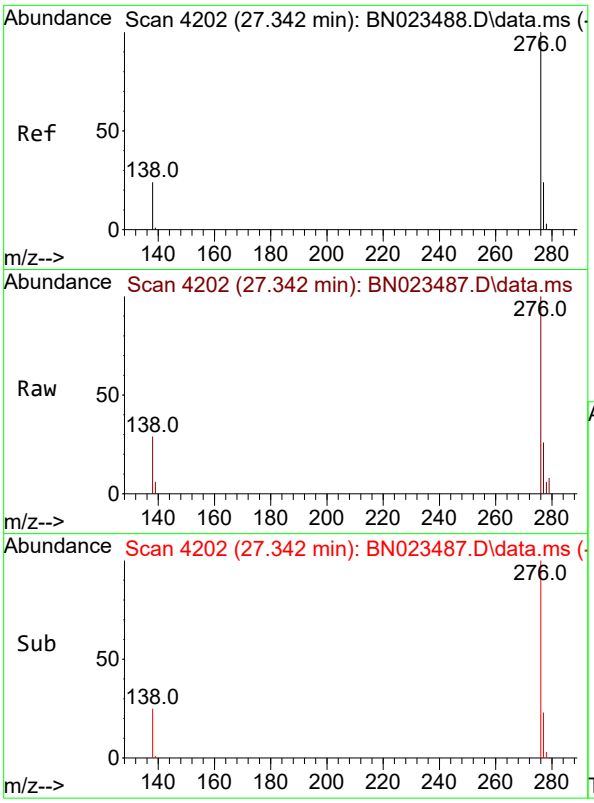


#40
Dibenzo(a,h)anthracene
Concen: 0.146 ng
RT: 26.574 min Scan# 3939
Delta R.T. -0.003 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Tgt Ion:278 Resp: 6442

Ion	Ratio	Lower	Upper
278	100		
139	24.6	17.7	26.5
279	31.3	22.2	33.2





#41
Benzo(g,h,i)perylene
Concen: 0.158 ng
RT: 27.342 min Scan# 4
Delta R.T. 0.000 min
Lab File: BN023487.D
Acq: 27 Dec 2022 13:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 7629

Ion	Ratio	Lower	Upper
276	100		
277	26.2	20.0	30.0
138	29.2	20.6	31.0