Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036876.D
Acq On : 11 Apr 2025 13:53
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Apr 11 15:36:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration

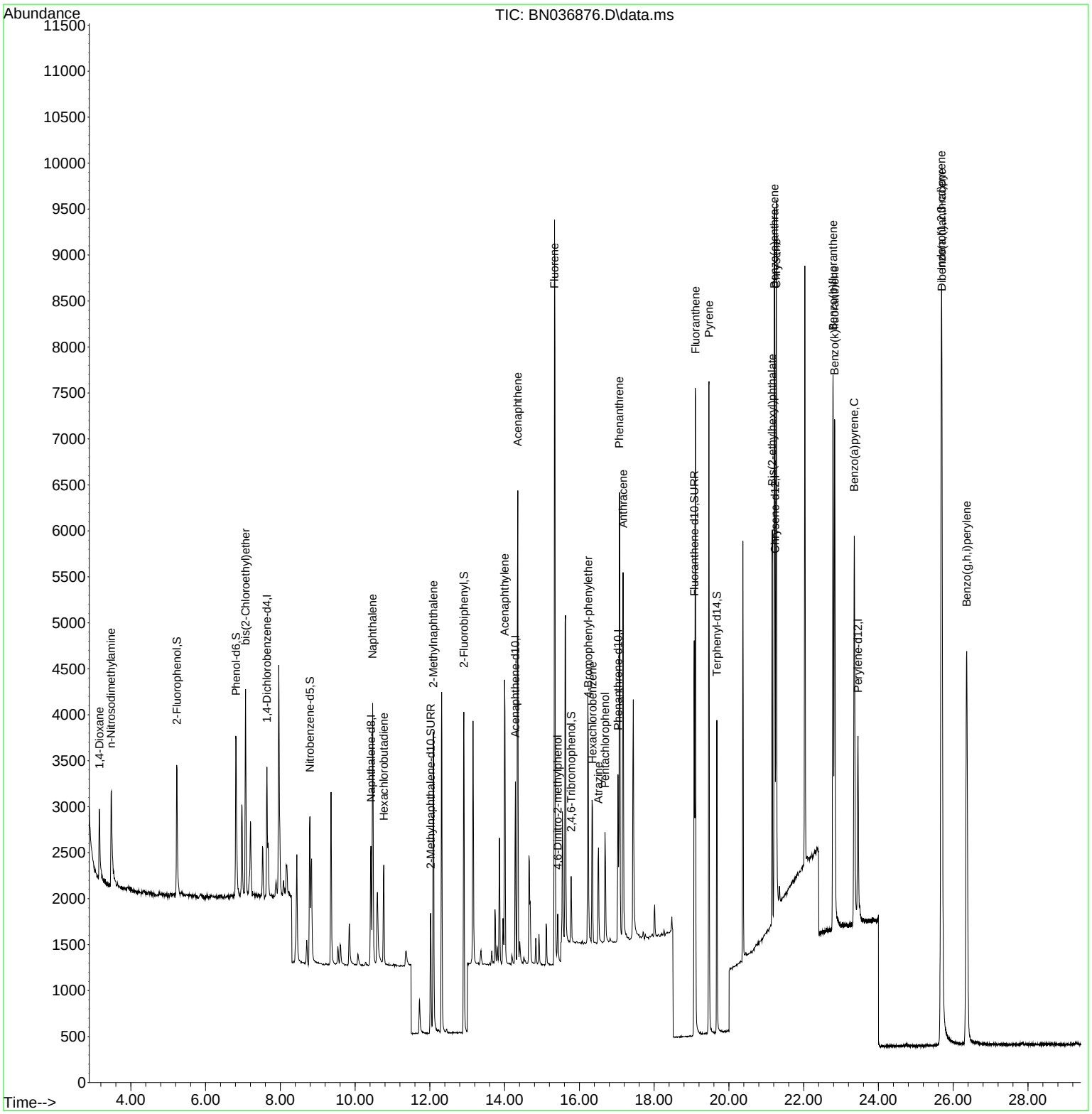
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.640	152	666	0.400	ng		0.00
7) Naphthalene-d8	10.426	136	1743	0.400	ng	#	0.00
13) Acenaphthene-d10	14.288	164	1033	0.400	ng		0.00
19) Phenanthrene-d10	17.033	188	2266	0.400	ng	#	0.00
29) Chrysene-d12	21.233	240	2195	0.400	ng	#	0.00
35) Perylene-d12	23.450	264	2663	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.235	112	1226	0.775	ng		0.00
5) Phenol-d6	6.817	99	1511	0.750	ng		0.00
8) Nitrobenzene-d5	8.792	82	1392	0.711	ng		0.00
11) 2-Methylnaphthalene-d10	12.021	152	1932	0.760	ng		0.00
14) 2,4,6-Tribromophenol	15.780	330	386	0.774	ng		0.00
15) 2-Fluorobiphenyl	12.909	172	3506	0.701	ng		0.00
27) Fluoranthene-d10	19.073	212	4730	0.743	ng		0.00
31) Terphenyl-d14	19.677	244	3251	0.774	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.162	88	548	0.696	ng		89
3) n-Nitrosodimethylamine	3.473	42	1294	0.746	ng	#	98
6) bis(2-Chloroethyl)ether	7.069	93	1549	0.778	ng		93
9) Naphthalene	10.468	128	3762	0.743	ng	#	91
10) Hexachlorobutadiene	10.767	225	860	0.744	ng	#	99
12) 2-Methylnaphthalene	12.092	142	2453	0.757	ng		97
16) Acenaphthylene	13.999	152	3604	0.751	ng		99
17) Acenaphthene	14.352	154	2400	0.768	ng		95
18) Fluorene	15.336	166	3235	0.750	ng		98
20) 4,6-Dinitro-2-methylph...	15.421	198	418	0.789	ng		85
21) 4-Bromophenyl-phenylether	16.239	248	1037	0.759	ng	#	90
22) Hexachlorobenzene	16.351	284	1187	0.730	ng		97
23) Atrazine	16.512	200	1001	0.746	ng	#	93
24) Pentachlorophenol	16.686	266	588	0.699	ng		94
25) Phenanthrene	17.071	178	5162	0.758	ng		98
26) Anthracene	17.170	178	4492	0.744	ng		99
28) Fluoranthene	19.105	202	6324	0.745	ng		99
30) Pyrene	19.468	202	6482	0.776	ng		99
32) Benzo(a)anthracene	21.215	228	5944	0.769	ng		96
33) Chrysene	21.269	228	6669	0.777	ng		98
34) Bis(2-ethylhexyl)phtha...	21.162	149	4201	0.718	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.684	276	9671	0.762	ng		98
37) Benzo(b)fluoranthene	22.787	252	7215	0.767	ng	#	86
38) Benzo(k)fluoranthene	22.828	252	7294	0.771	ng	#	87
39) Benzo(a)pyrene	23.354	252	6413	0.778	ng	#	81
40) Dibenzo(a,h)anthracene	25.696	278	7922	0.788	ng		93
41) Benzo(g,h,i)perylene	26.362	276	8703	0.760	ng		97

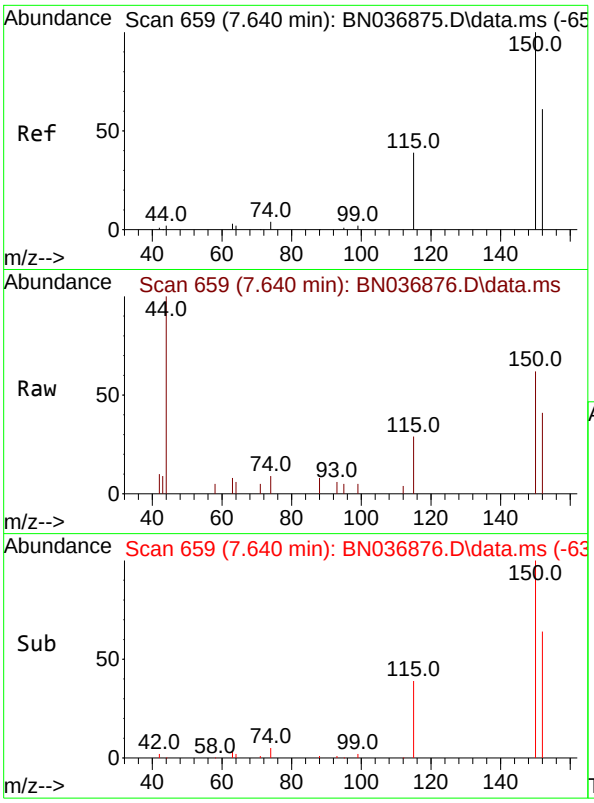
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036876.D
Acq On : 11 Apr 2025 13:53
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Apr 11 15:36:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration



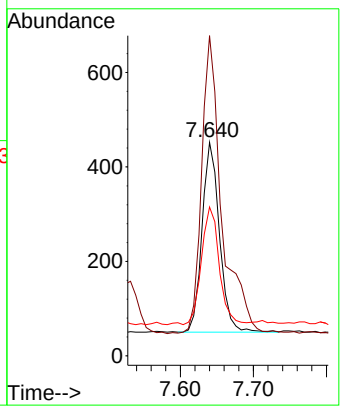


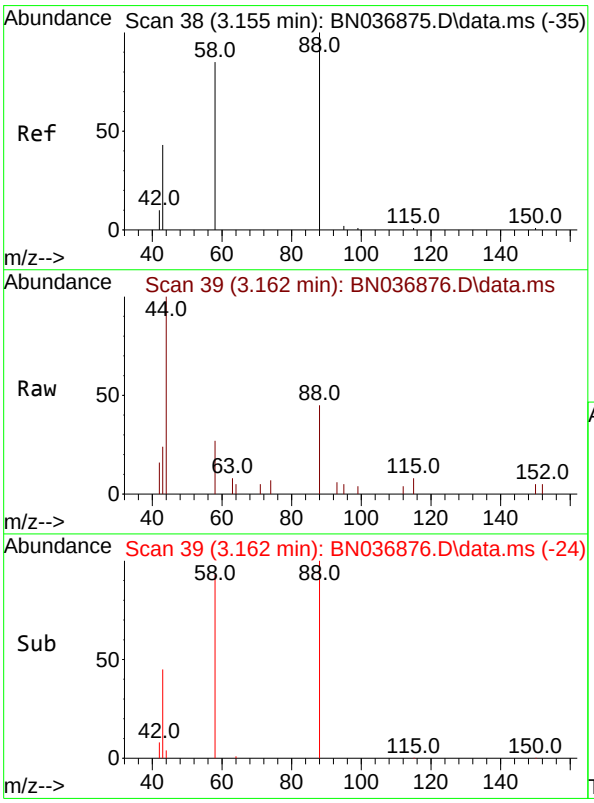
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 666

Ion	Ratio	Lower	Upper
152	100		
150	150.0	123.0	184.6
115	69.7	60.1	90.1

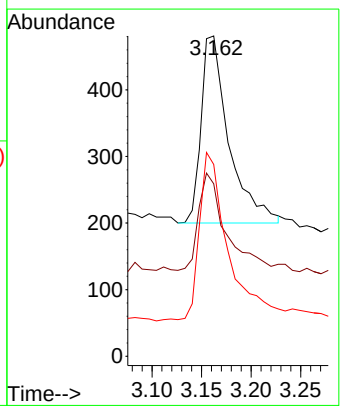


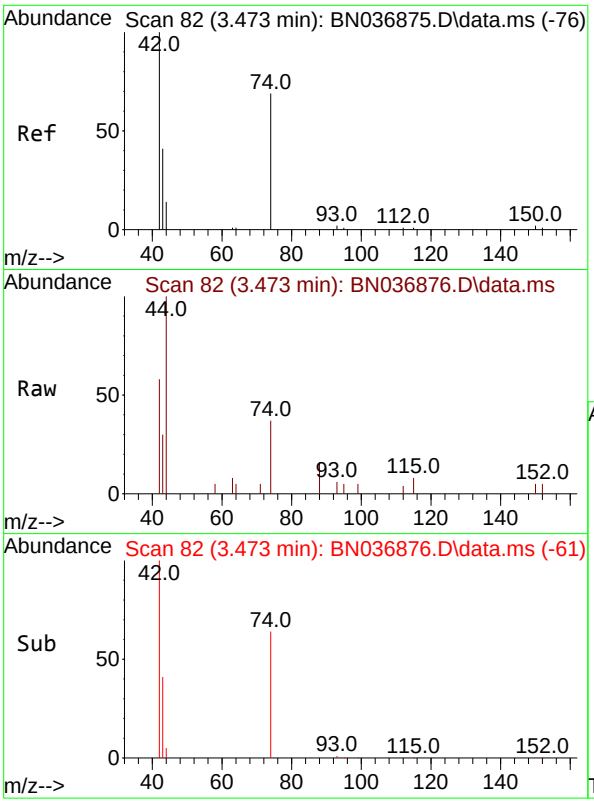


#2
1,4-Dioxane
Concen: 0.696 ng
RT: 3.162 min Scan# 39
Delta R.T. 0.007 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion: 88 Resp: 548

Ion	Ratio	Lower	Upper
88	100		
43	50.4	39.2	58.8
58	94.0	63.5	95.3



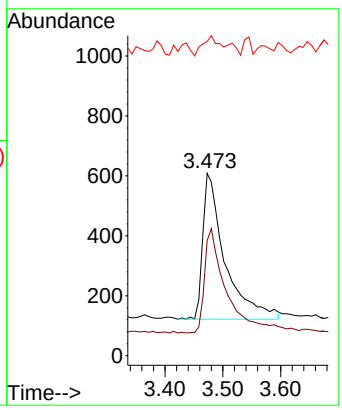


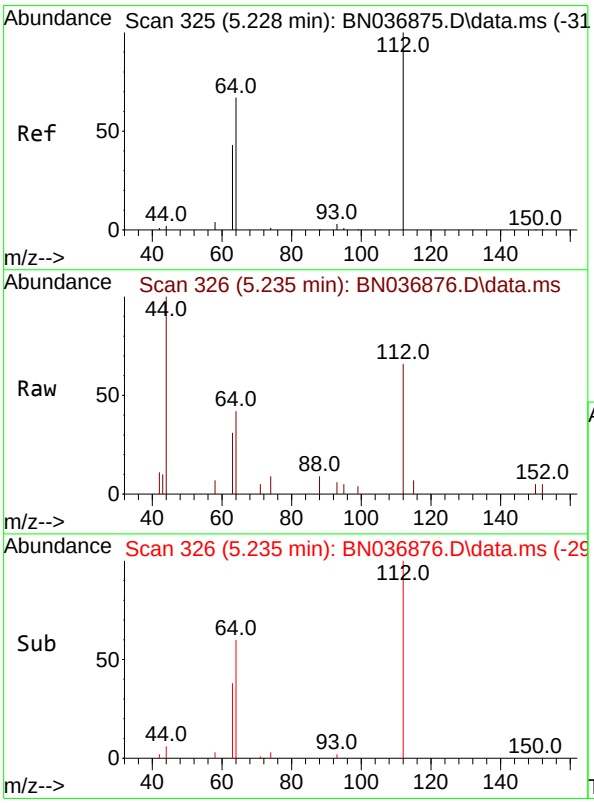
#3
n-Nitrosodimethylamine
Concen: 0.746 ng
RT: 3.473 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1294

Ion	Ratio	Lower	Upper
42	100		
74	69.9	54.6	81.8
44	9.9	0.0	0.0#

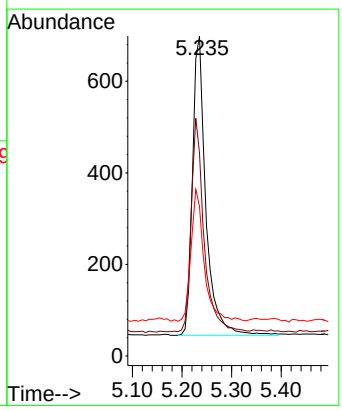


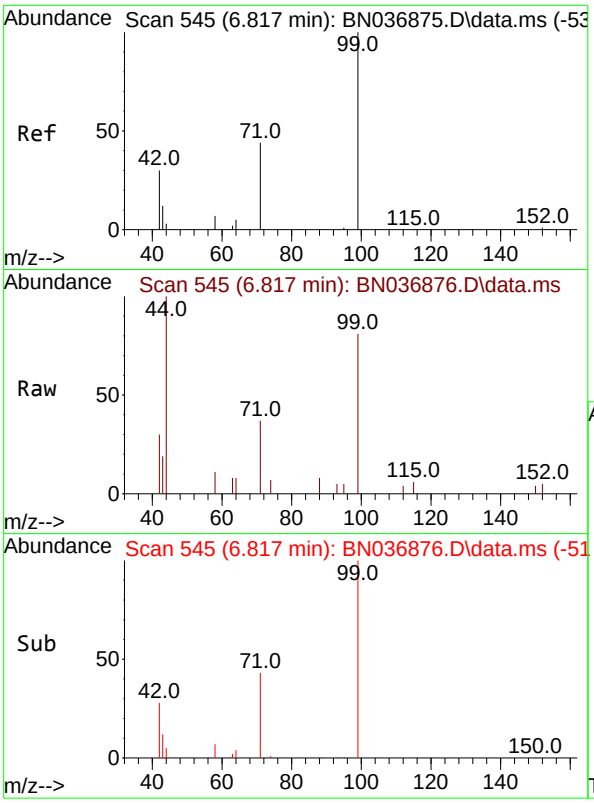


#4
2-Fluorophenol
Concen: 0.775 ng
RT: 5.235 min Scan# 326
Delta R.T. 0.007 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:112 Resp: 1226

Ion	Ratio	Lower	Upper
112	100		
64	67.9	54.0	81.0
63	42.8	35.1	52.7



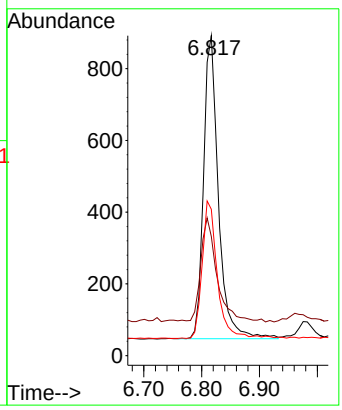


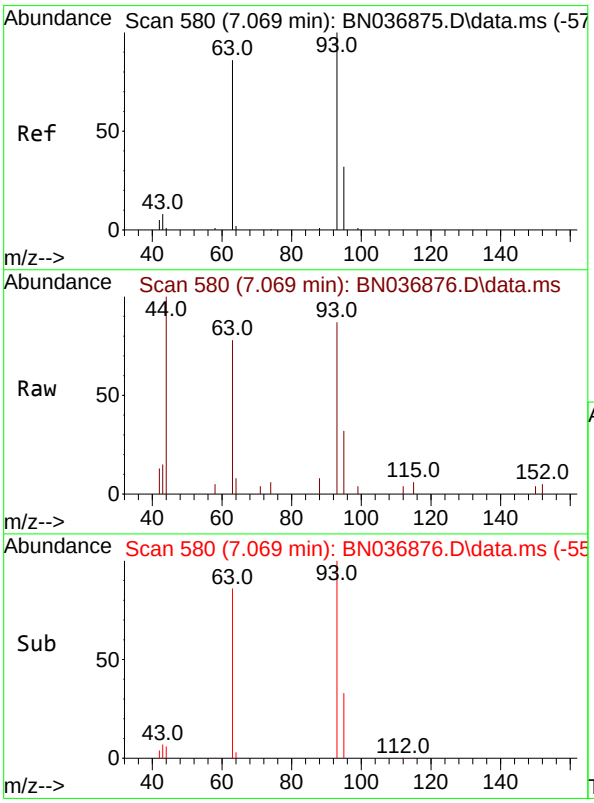
#5
Phenol-d6
Concen: 0.750 ng
RT: 6.817 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 1511

Ion	Ratio	Lower	Upper
99	100		
42	37.9	30.9	46.3
71	45.6	38.6	58.0

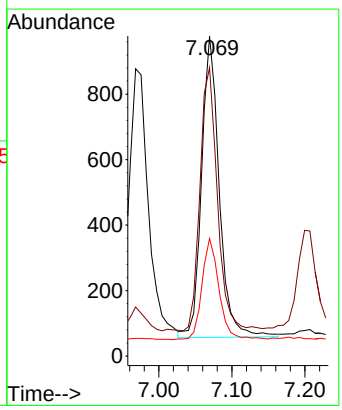


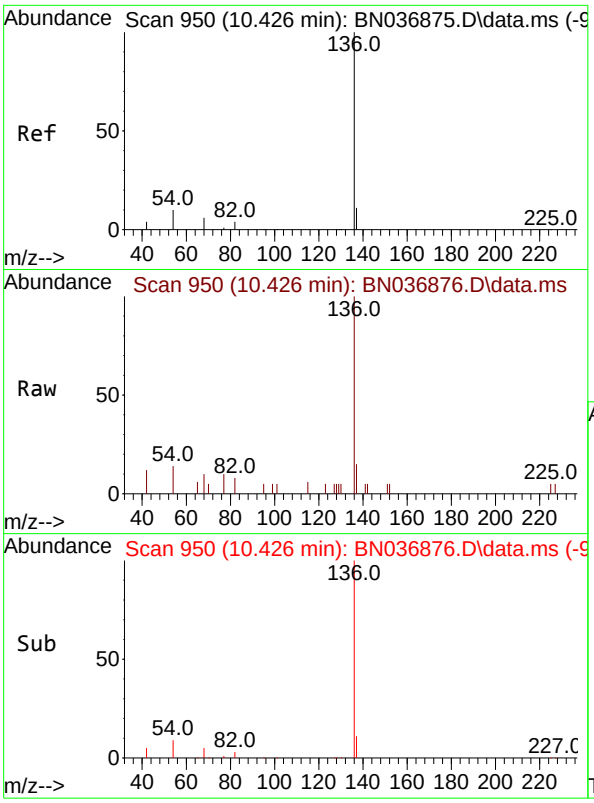


#6
bis(2-Chloroethyl)ether
Concen: 0.778 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion: 93 Resp: 1549

Ion	Ratio	Lower	Upper
93	100		
63	86.2	76.4	114.6
95	32.4	26.1	39.1



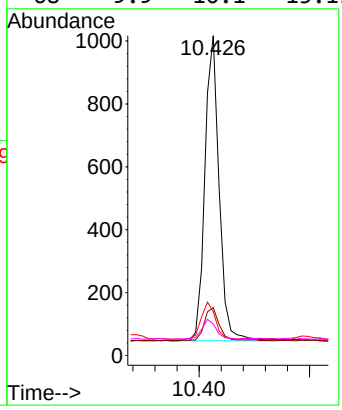


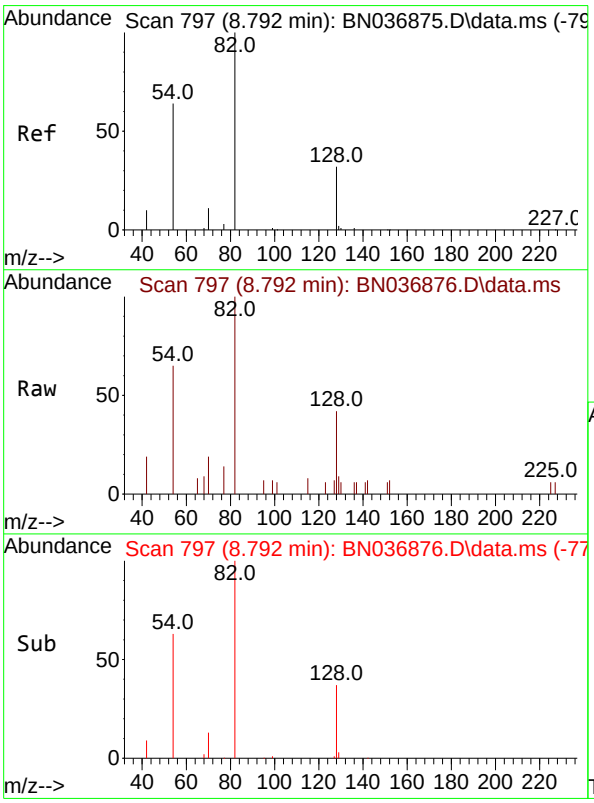
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 1743

Ion	Ratio	Lower	Upper
136	100		
137	14.9	13.5	20.3
54	13.8	12.8	19.2
68	9.9	10.1	15.1#

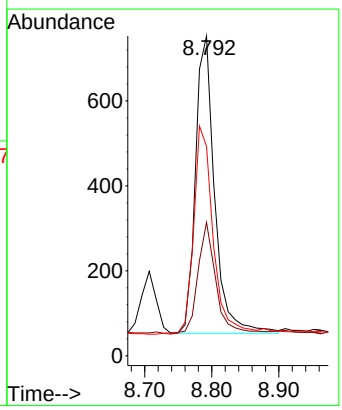


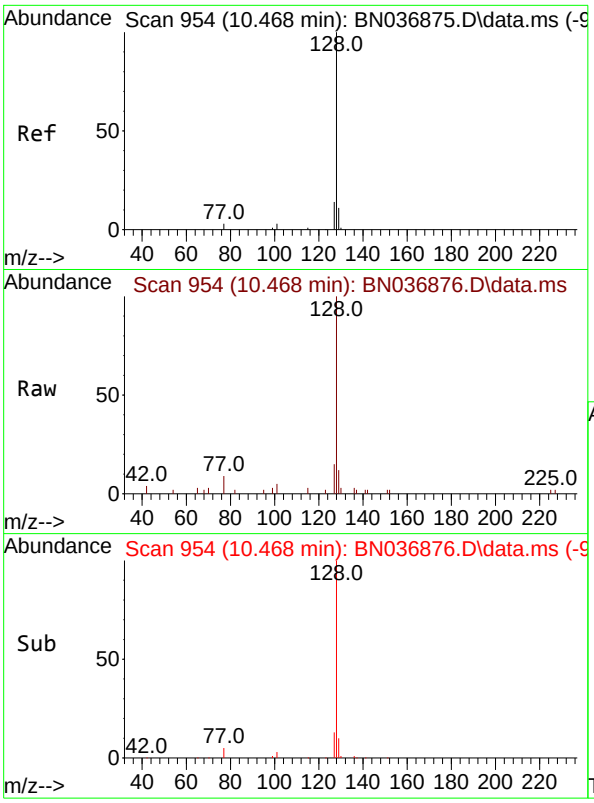


#8
Nitrobenzene-d5
Concen: 0.711 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion: 82 Resp: 1392

Ion	Ratio	Lower	Upper
82	100		
128	41.7	35.5	53.3
54	65.5	56.2	84.4



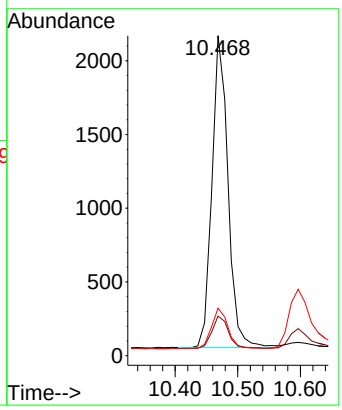


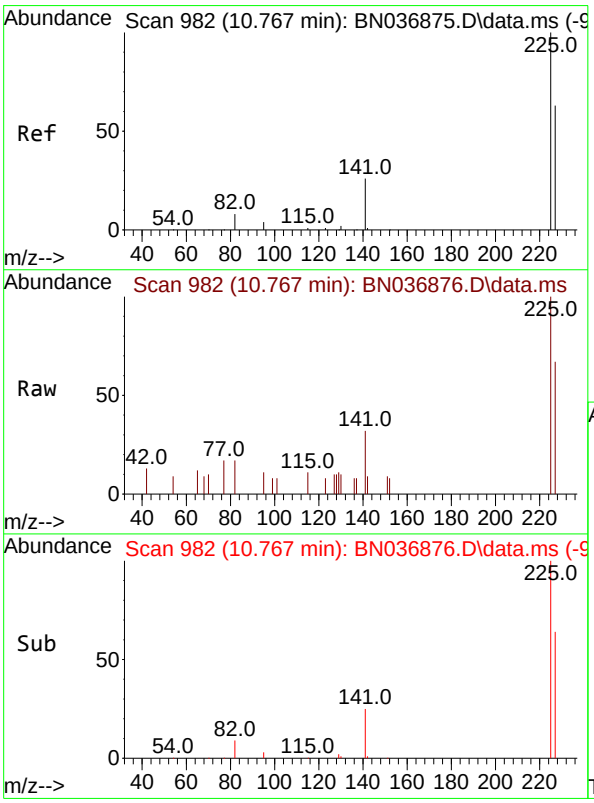
#9
Naphthalene
Concen: 0.743 ng
RT: 10.468 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 3762

Ion	Ratio	Lower	Upper
128	100		
129	12.4	12.9	19.3#
127	14.8	15.0	22.6#

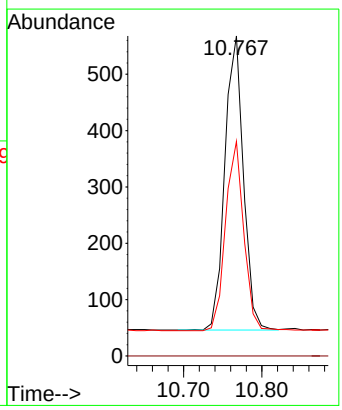


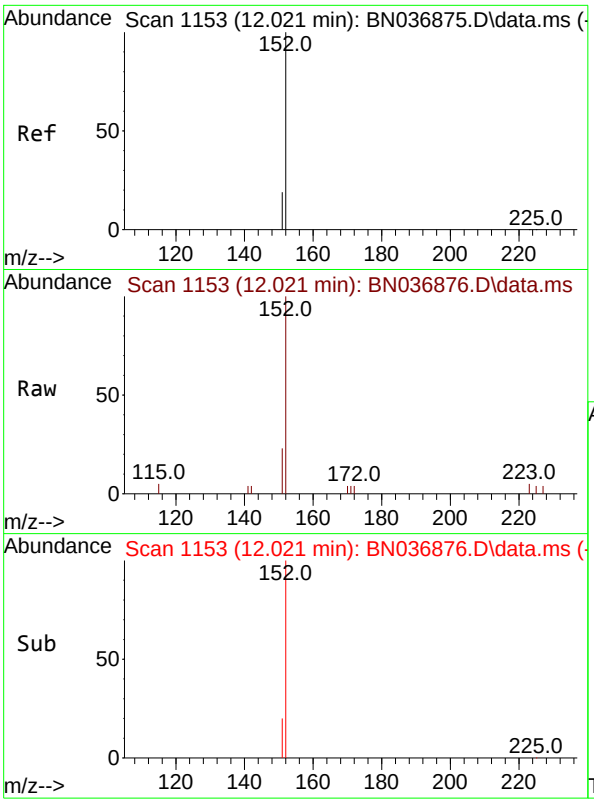


#10
Hexachlorobutadiene
Concen: 0.744 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:225 Resp: 860

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.5	75.7



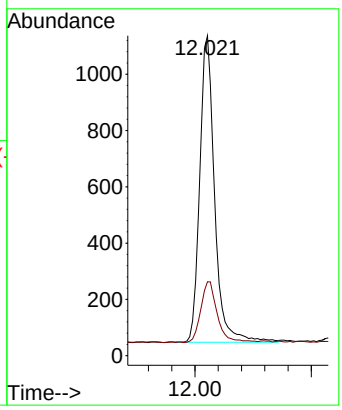


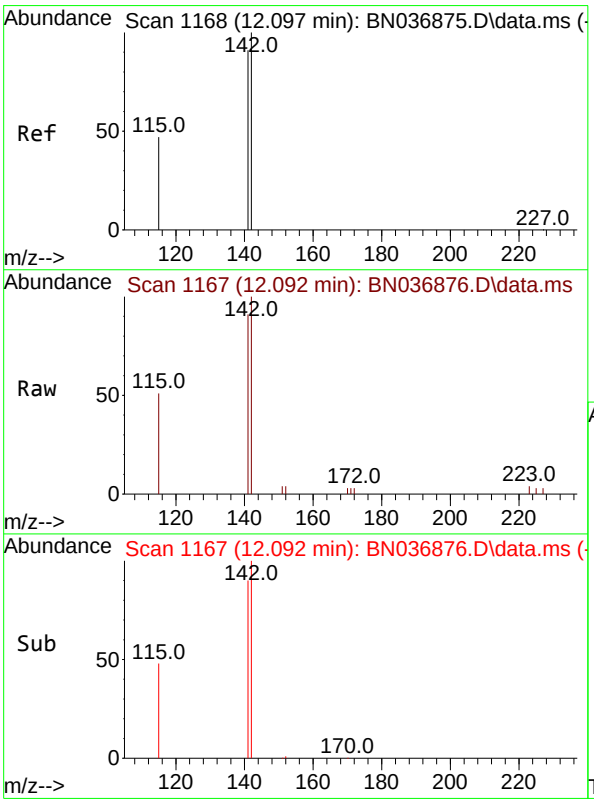
#11
2-Methylnaphthalene-d10
Concen: 0.760 ng
RT: 12.021 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 1932

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.8	26.8

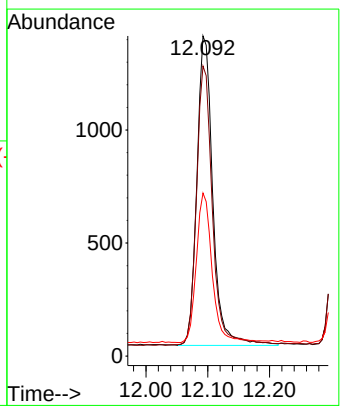


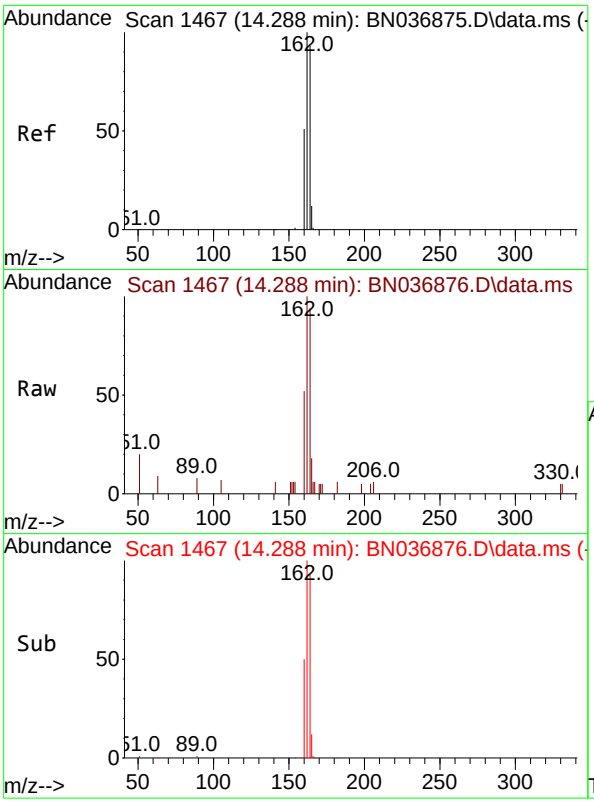


#12
2-Methylnaphthalene
Concen: 0.757 ng
RT: 12.092 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:142 Resp: 2453

Ion	Ratio	Lower	Upper
142	100		
141	90.6	73.8	110.8
115	50.9	43.3	64.9



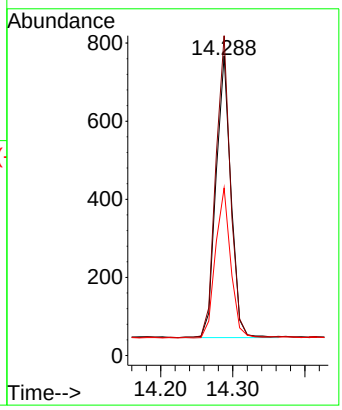


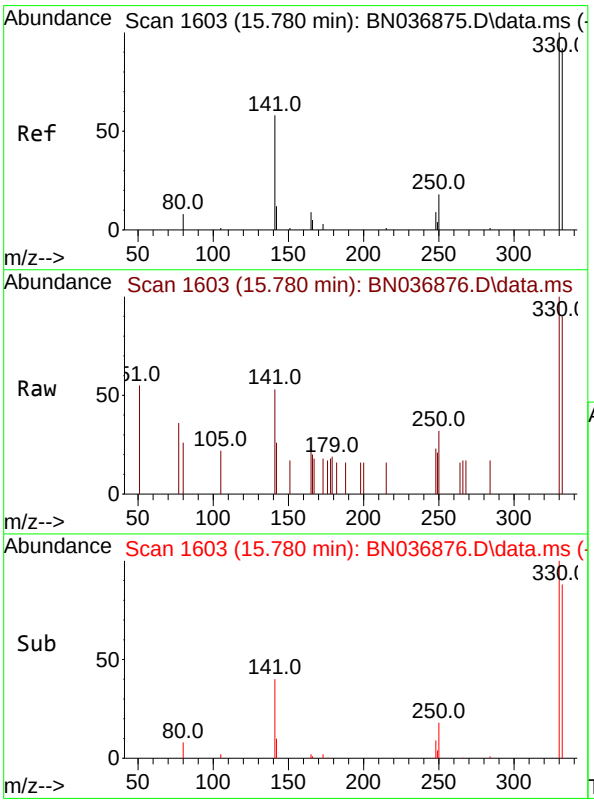
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 1033

Ion	Ratio	Lower	Upper
164	100		
162	106.6	85.7	128.5
160	55.9	46.9	70.3

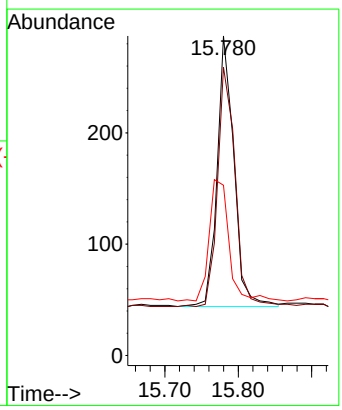


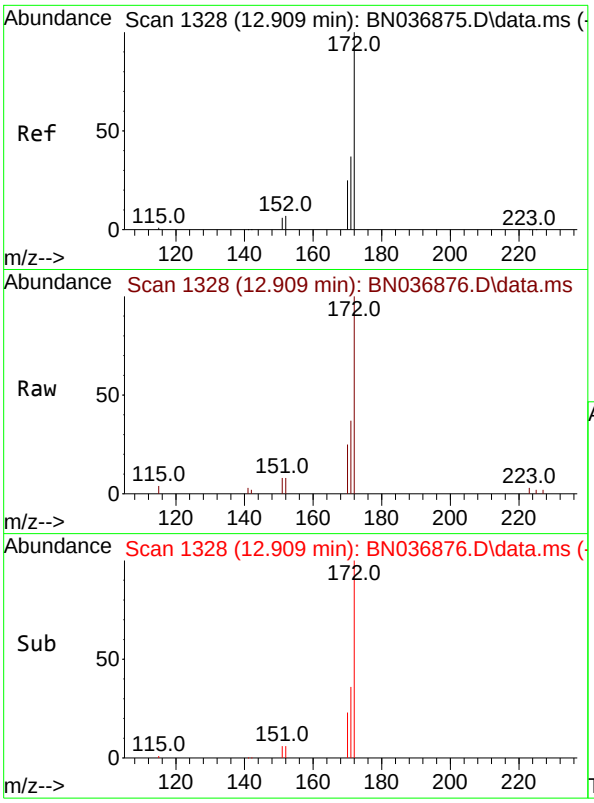


#14
2,4,6-Tribromophenol
Concen: 0.774 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:330 Resp: 386

Ion	Ratio	Lower	Upper
330	100		
332	93.0	87.0	130.6
141	52.6	45.3	67.9



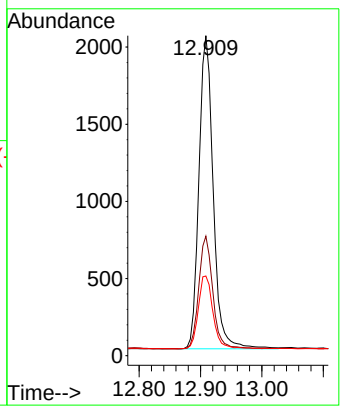


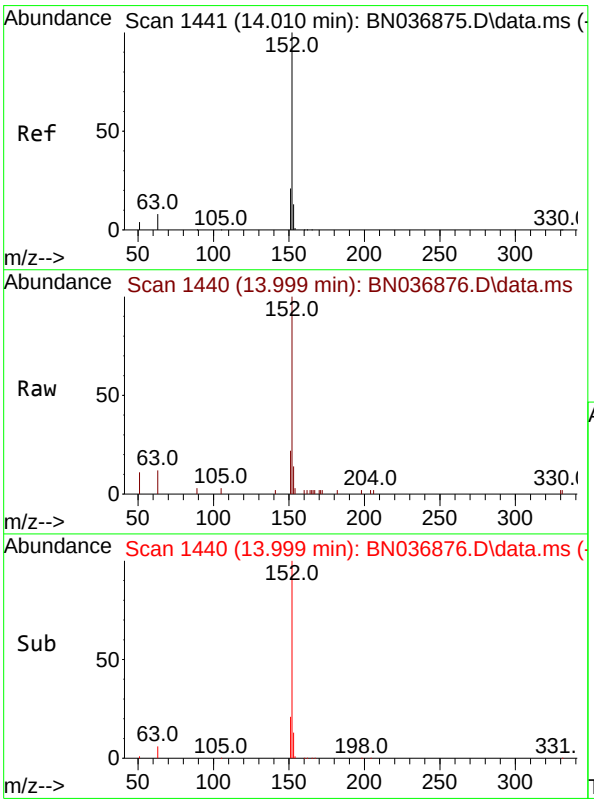
#15
2-Fluorobiphenyl
Concen: 0.701 ng
RT: 12.909 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 3506

Ion	Ratio	Lower	Upper
172	100		
171	37.4	32.7	49.1
170	24.9	23.3	34.9

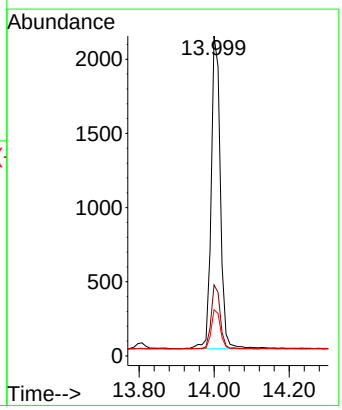


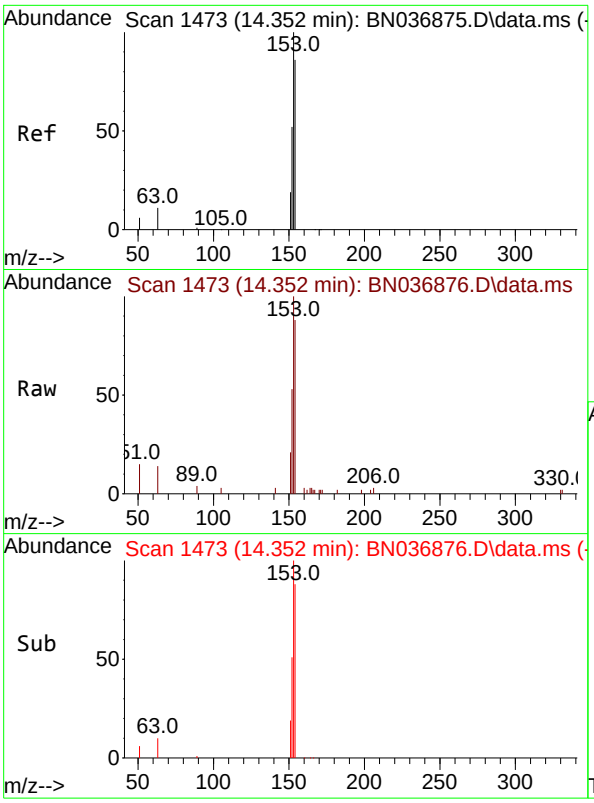


#16
Acenaphthylene
Concen: 0.751 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.011 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:152 Resp: 3604

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.4	24.6
153	12.6	10.3	15.5



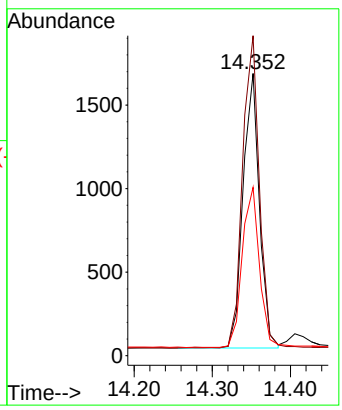


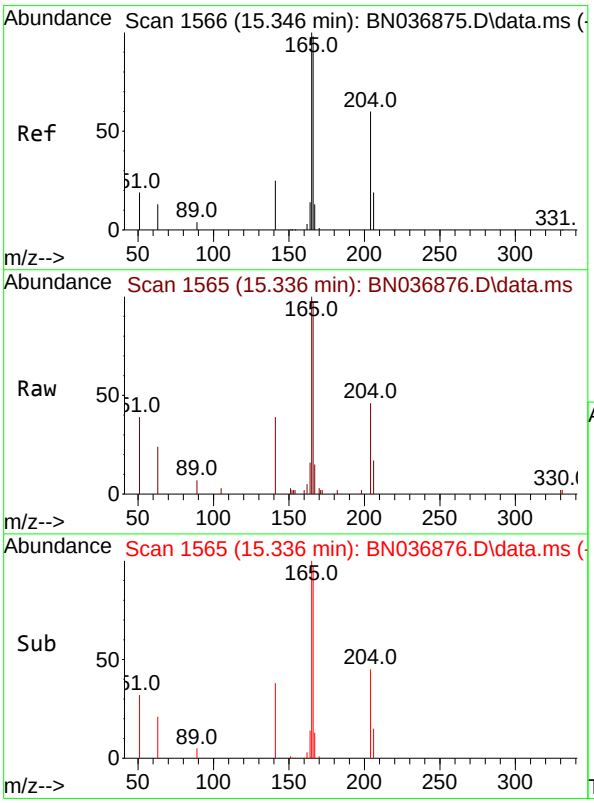
#17
Acenaphthene
Concen: 0.768 ng
RT: 14.352 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 2400

Ion	Ratio	Lower	Upper
154	100		
153	116.8	97.8	146.6
152	62.1	52.7	79.1

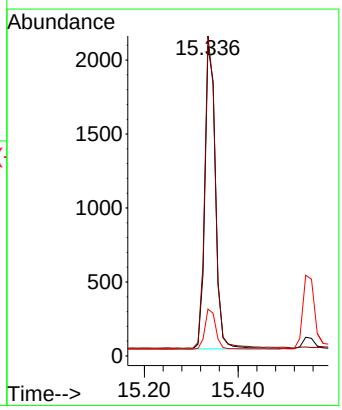


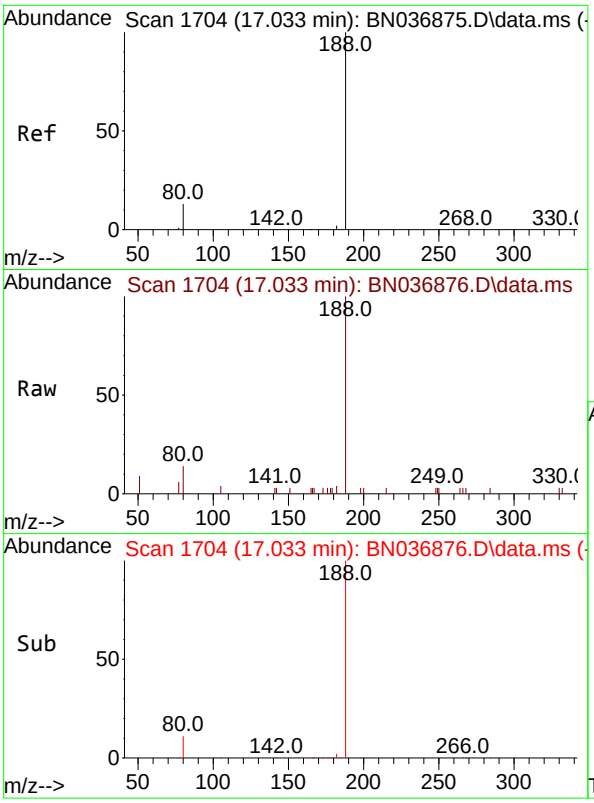


#18
Fluorene
Concen: 0.750 ng
RT: 15.336 min Scan# 1565
Delta R.T. -0.011 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:166 Resp: 3235

Ion	Ratio	Lower	Upper
166	100		
165	101.9	83.2	124.8
167	13.5	11.1	16.7



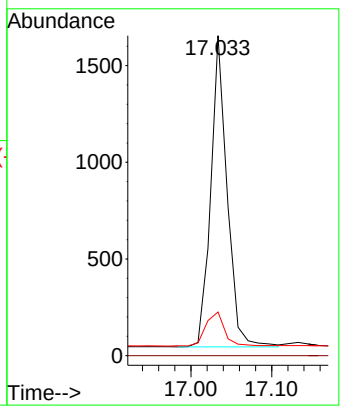


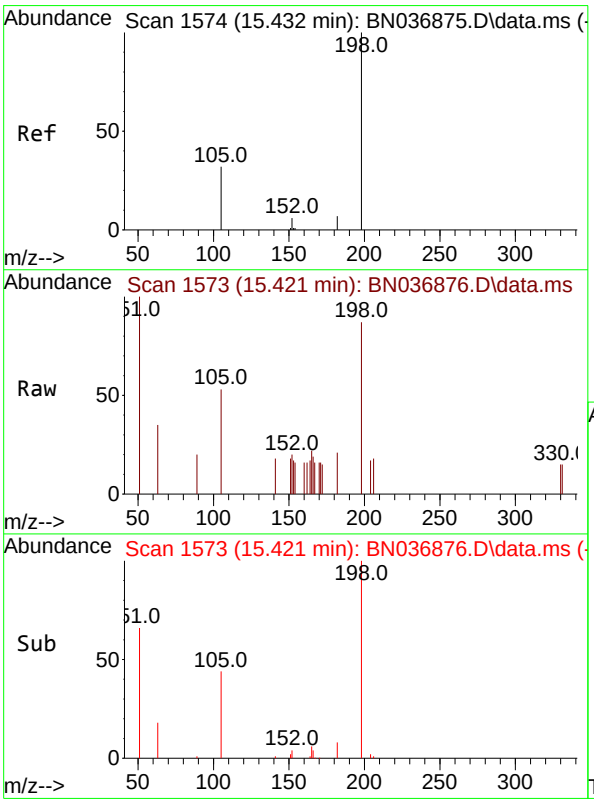
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 2266

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	13.9	20.9#

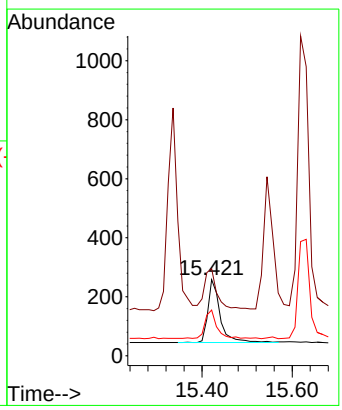


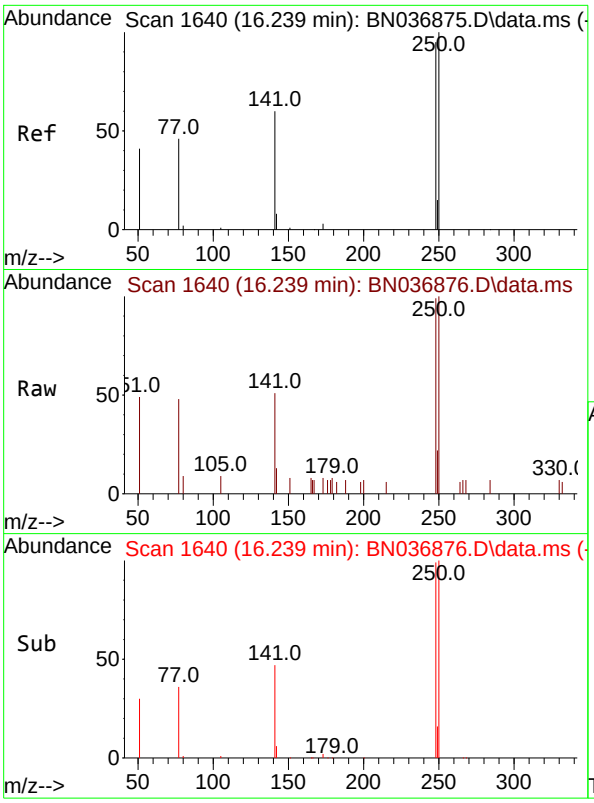


#20
4,6-Dinitro-2-methylphenol
Concen: 0.789 ng
RT: 15.421 min Scan# 1573
Delta R.T. -0.011 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:198 Resp: 418

Ion	Ratio	Lower	Upper
198	100		
51	114.3	107.6	161.4
105	60.1	55.2	82.8



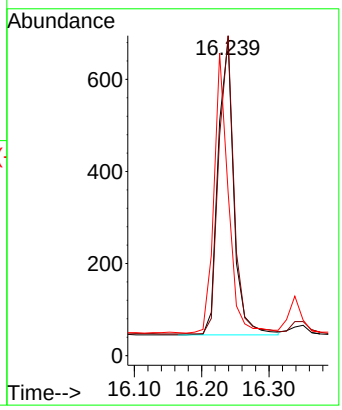


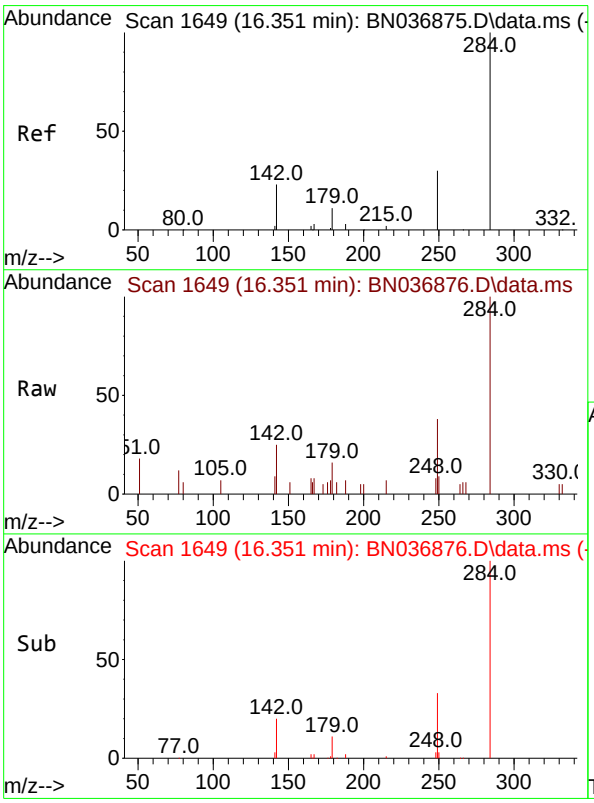
#21
4-Bromophenyl-phenylether
Concen: 0.759 ng
RT: 16.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 1037

Ion	Ratio	Lower	Upper
248	100		
250	101.3	83.5	125.3
141	51.7	55.3	82.9#

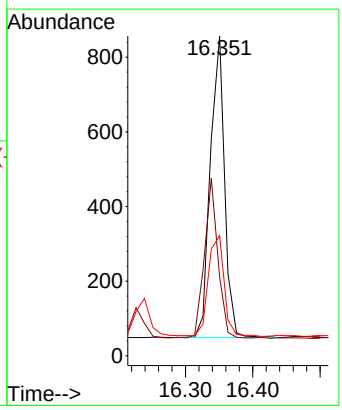


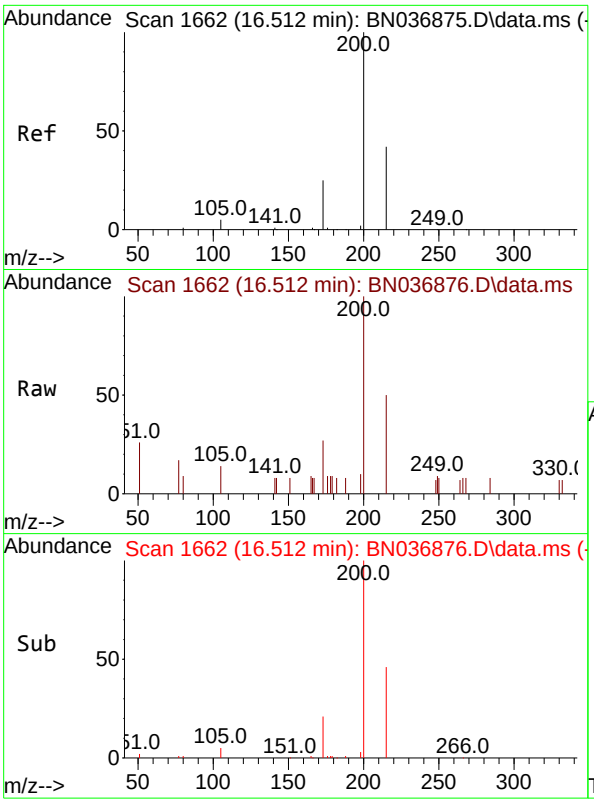


#22
Hexachlorobenzene
Concen: 0.730 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:284 Resp: 1187

Ion	Ratio	Lower	Upper
284	100		
142	50.4	37.7	56.5
249	37.2	29.0	43.6



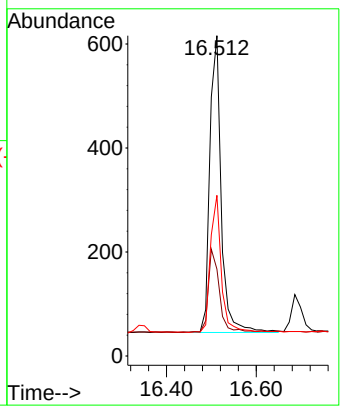


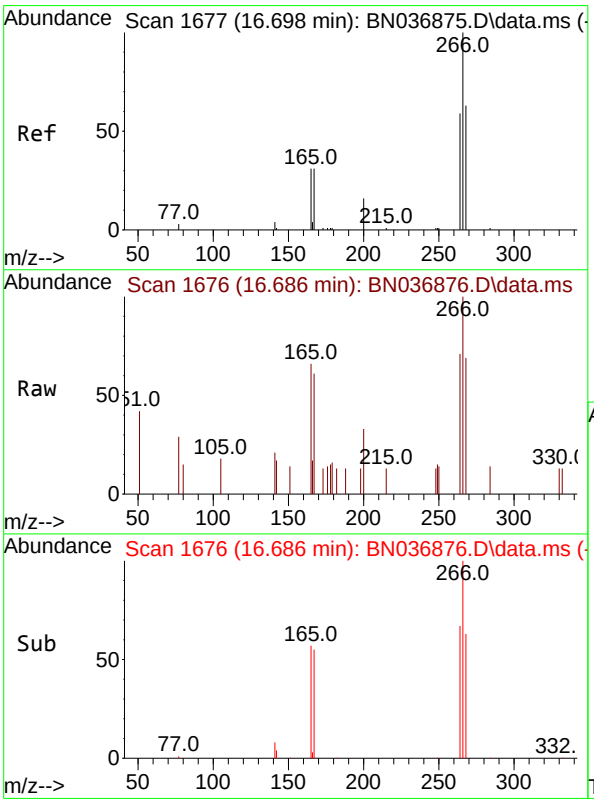
#23
Atrazine
Concen: 0.746 ng
RT: 16.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 1001

Ion	Ratio	Lower	Upper
200	100		
173	27.1	28.6	43.0#
215	50.2	40.5	60.7

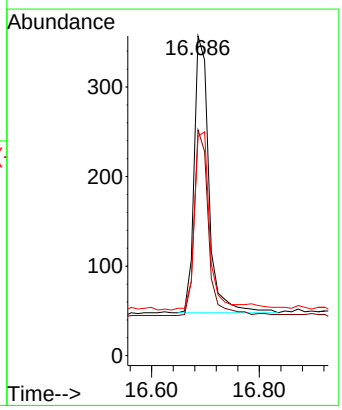


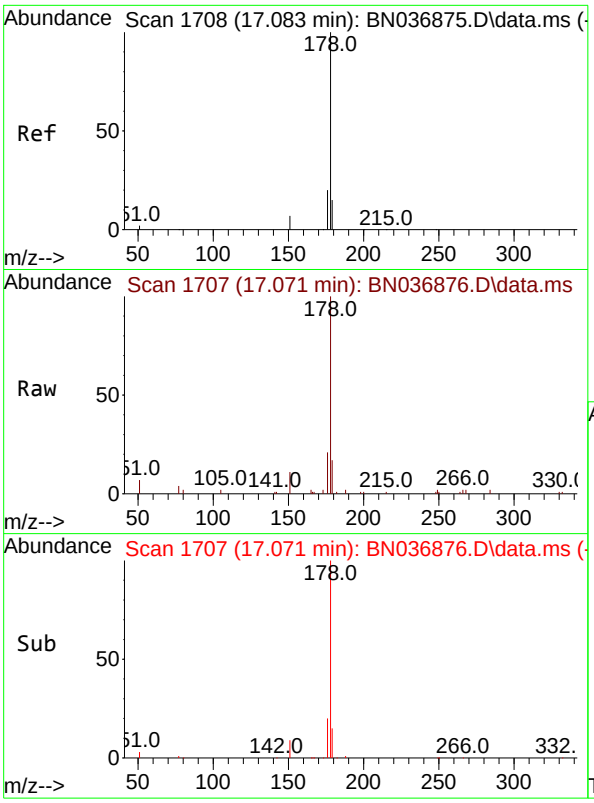


#24
Pentachlorophenol
Concen: 0.699 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:266 Resp: 588

Ion	Ratio	Lower	Upper
266	100		
264	64.8	44.6	66.8
268	65.6	51.8	77.6



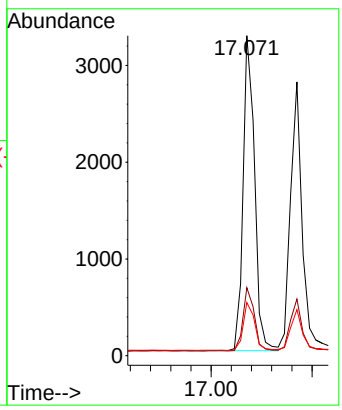


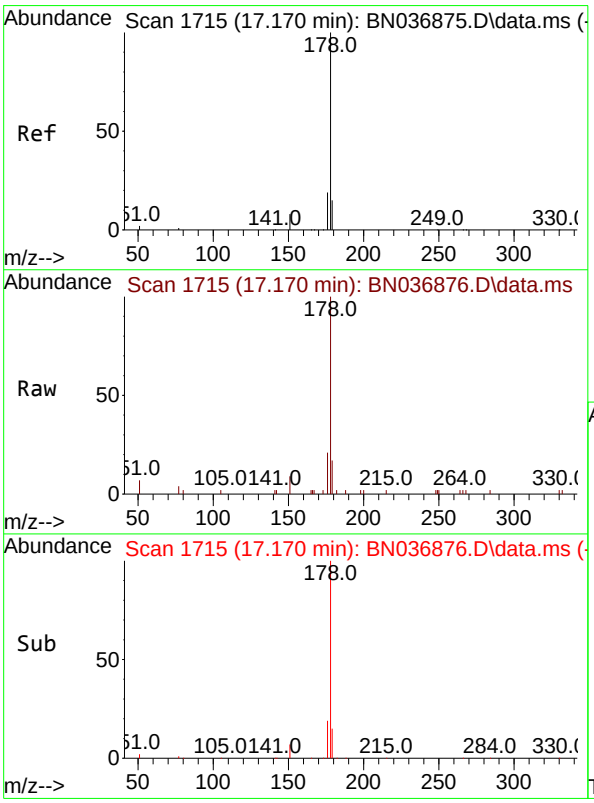
#25
Phenanthrene
Concen: 0.758 ng
RT: 17.071 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 5162

Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.6	25.0
179	15.2	12.8	19.2

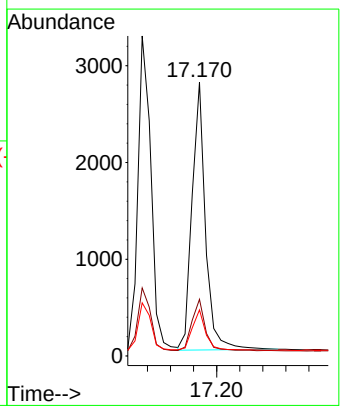


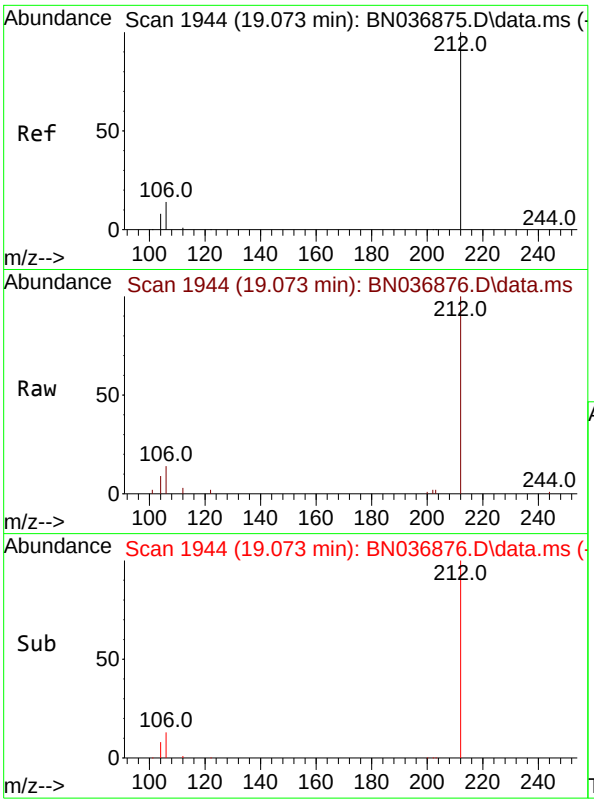


#26
Anthracene
Concen: 0.744 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:178 Resp: 4492

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.6
179	15.0	12.6	18.8



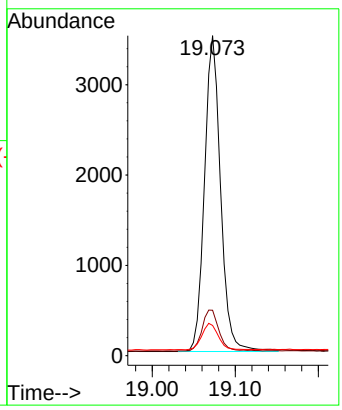


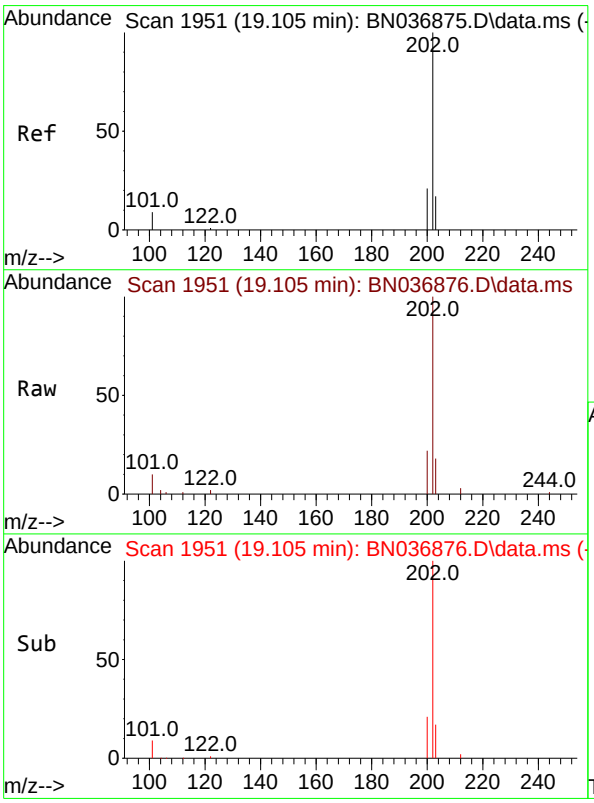
#27
Fluoranthene-d10
Concen: 0.743 ng
RT: 19.073 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 4730

Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.2	16.8
104	8.6	7.5	11.3

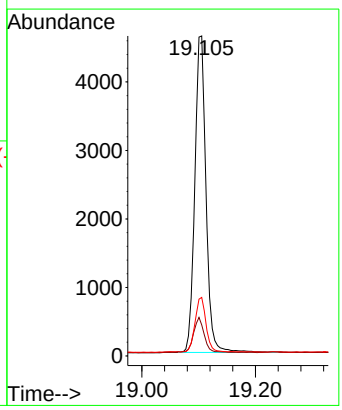


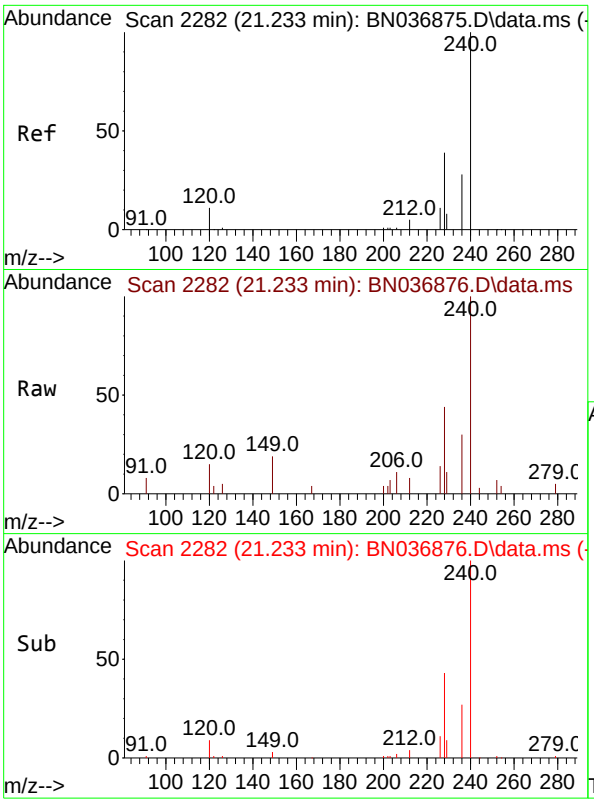


#28
Fluoranthene
Concen: 0.745 ng
RT: 19.105 min Scan# 1951
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:202 Resp: 6324

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.5	12.7
203	17.0	13.8	20.6



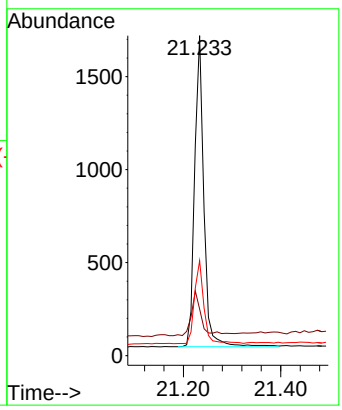


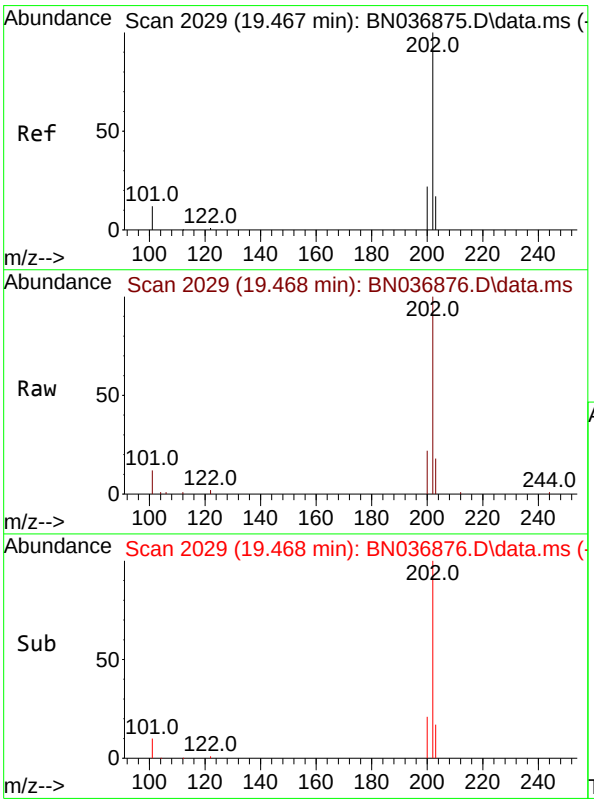
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.233 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 2195

Ion	Ratio	Lower	Upper
240	100		
120	14.5	15.8	23.6#
236	29.7	25.8	38.8

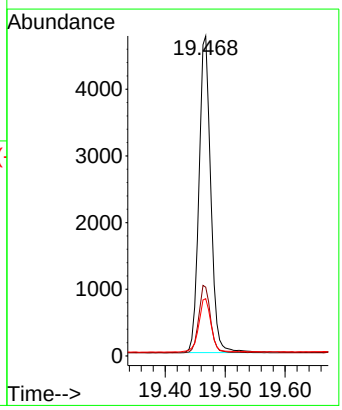


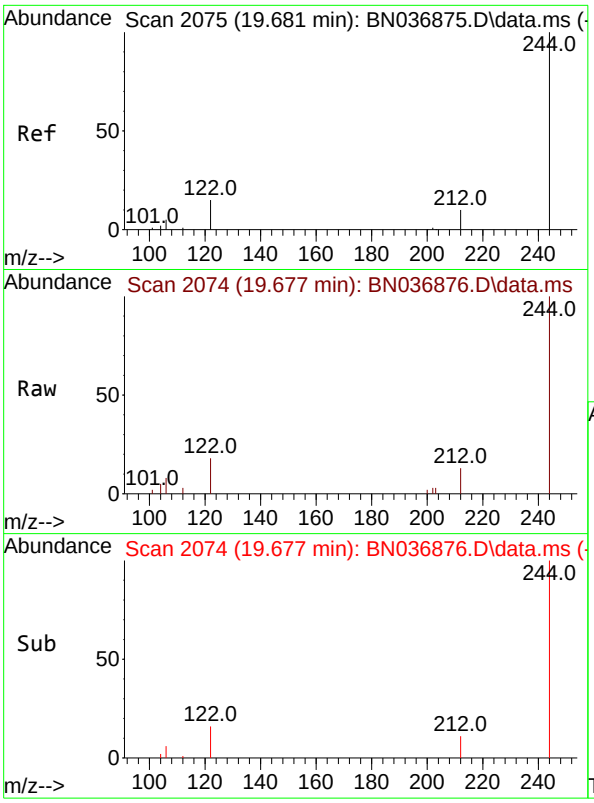


#30
Pyrene
Concen: 0.776 ng
RT: 19.468 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:202 Resp: 6482

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.7	14.5	21.7



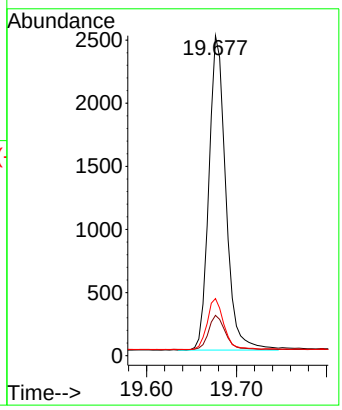


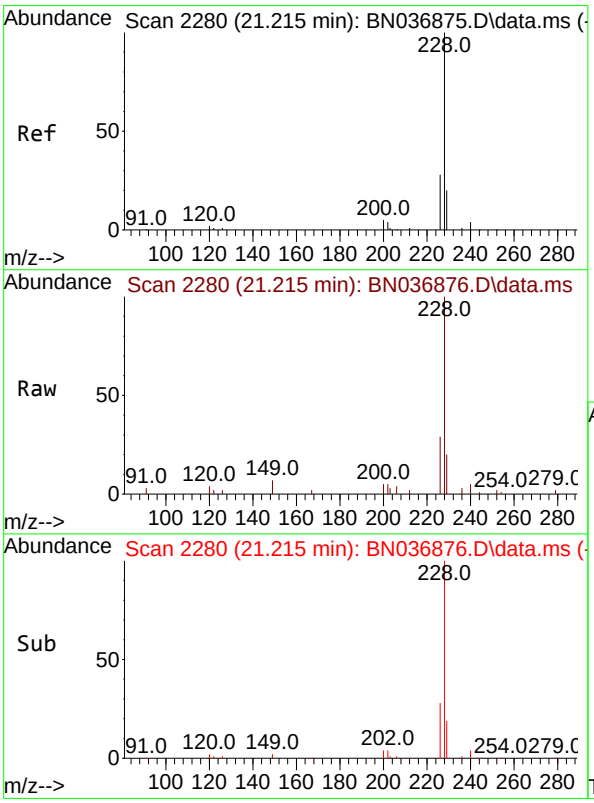
#31
Terphenyl-d14
Concen: 0.774 ng
RT: 19.677 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 3251

Ion	Ratio	Lower	Upper
244	100		
212	12.6	11.6	17.4
122	17.9	14.9	22.3

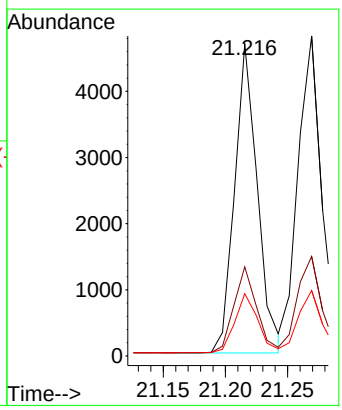


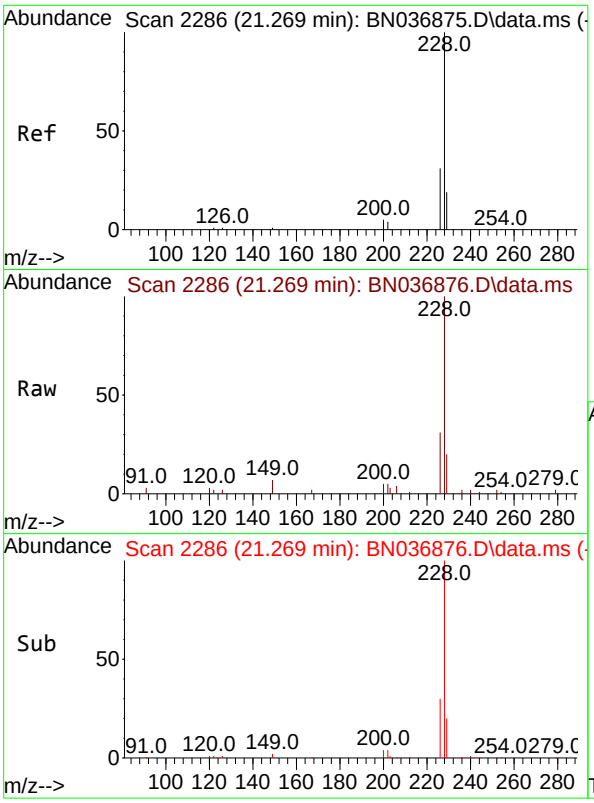


#32
Benzo(a)anthracene
Concen: 0.769 ng
RT: 21.215 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:228 Resp: 5944

Ion	Ratio	Lower	Upper
228	100		
226	28.5	24.5	36.7
229	19.9	17.7	26.5



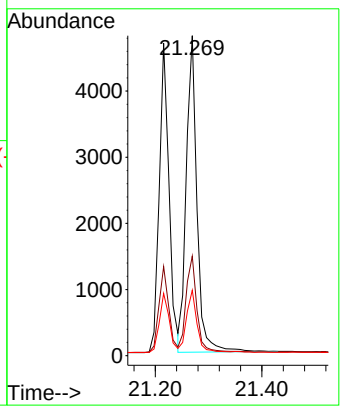


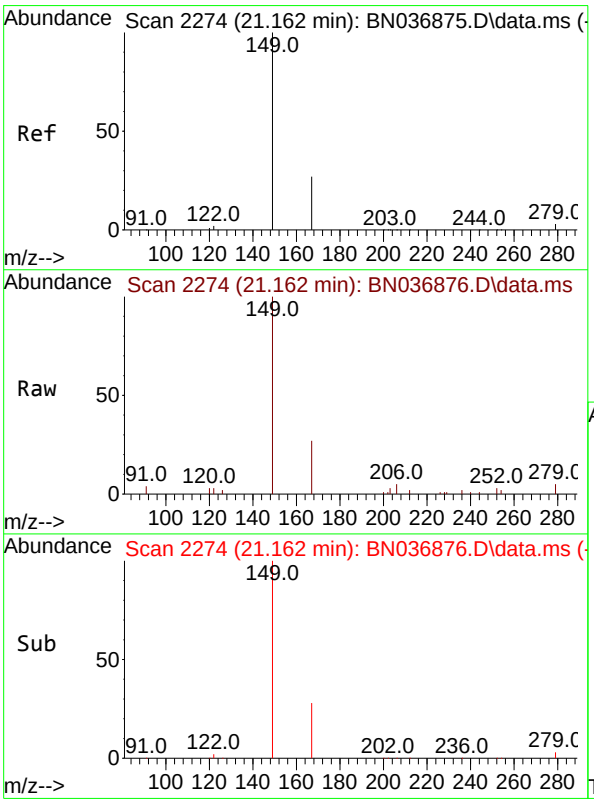
#33
Chrysene
Concen: 0.777 ng
RT: 21.269 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 6669

Ion	Ratio	Lower	Upper
228	100		
226	31.1	26.1	39.1
229	20.5	17.0	25.4

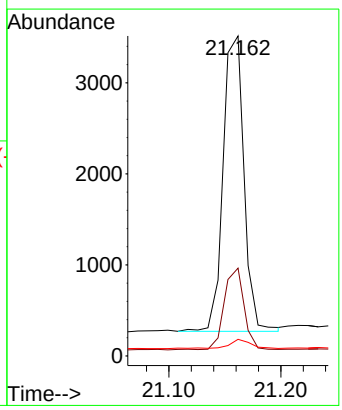


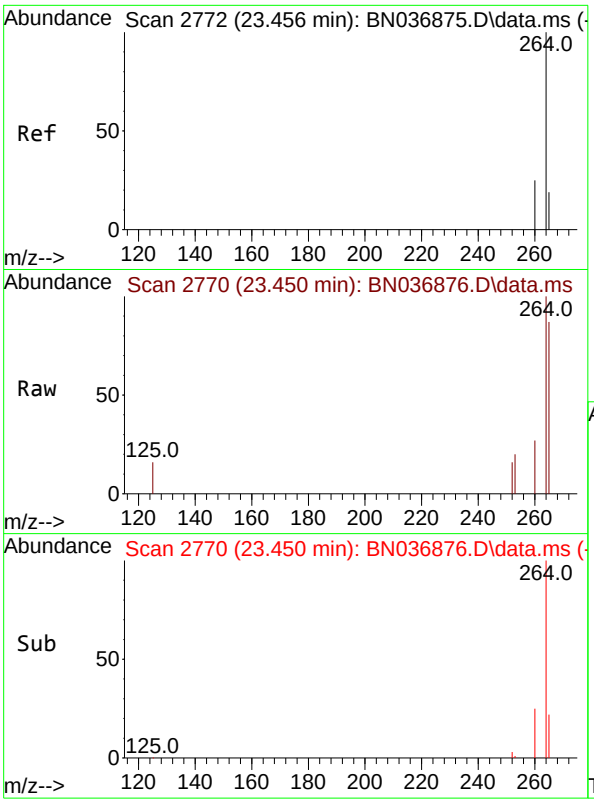


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.718 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:149 Resp: 4201

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.0	31.4
279	3.0	3.6	5.4#



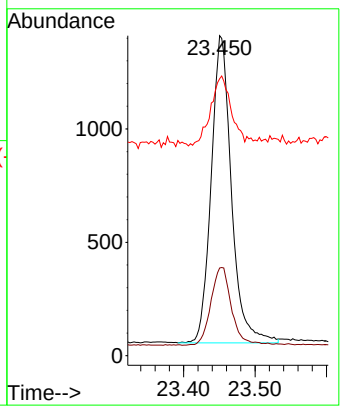


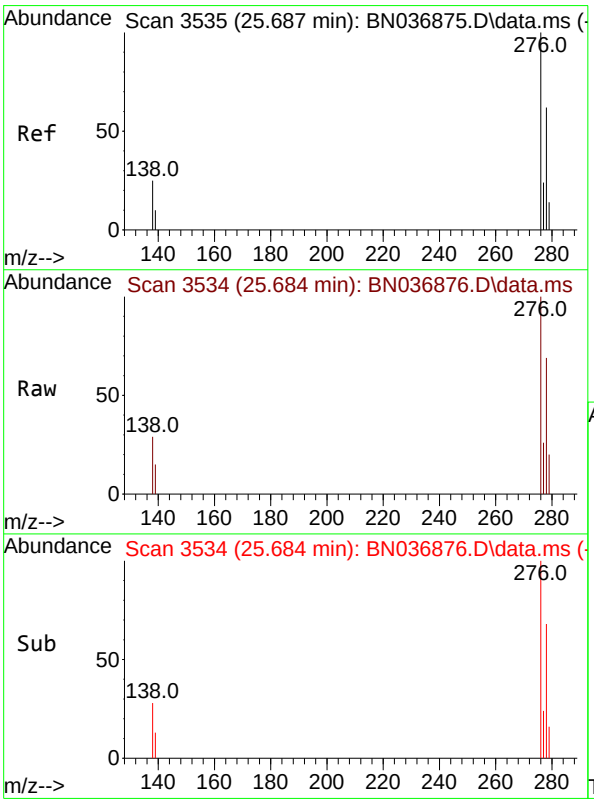
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.450 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 2663

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.9	34.3
265	86.5	88.6	132.8#

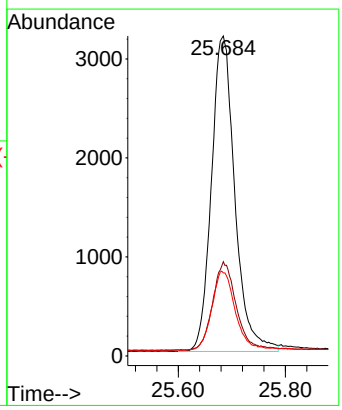


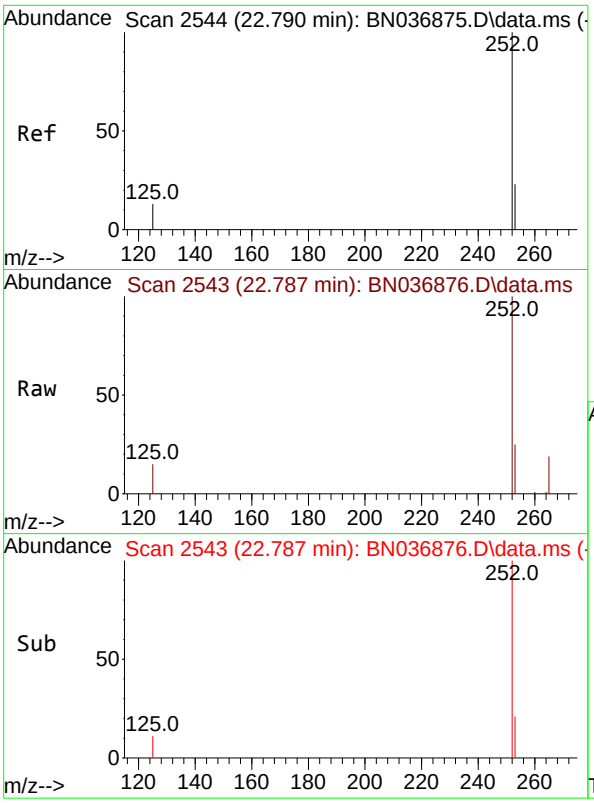


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.762 ng
RT: 25.684 min Scan# 3534
Delta R.T. -0.003 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:276 Resp: 9671

Ion	Ratio	Lower	Upper
276	100		
138	27.6	21.0	31.6
277	25.2	19.3	28.9



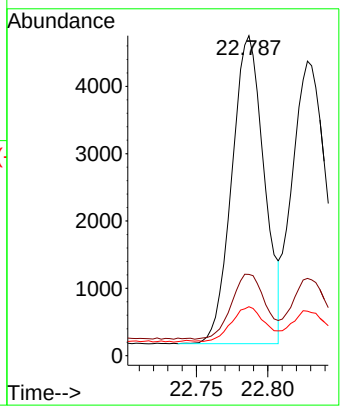


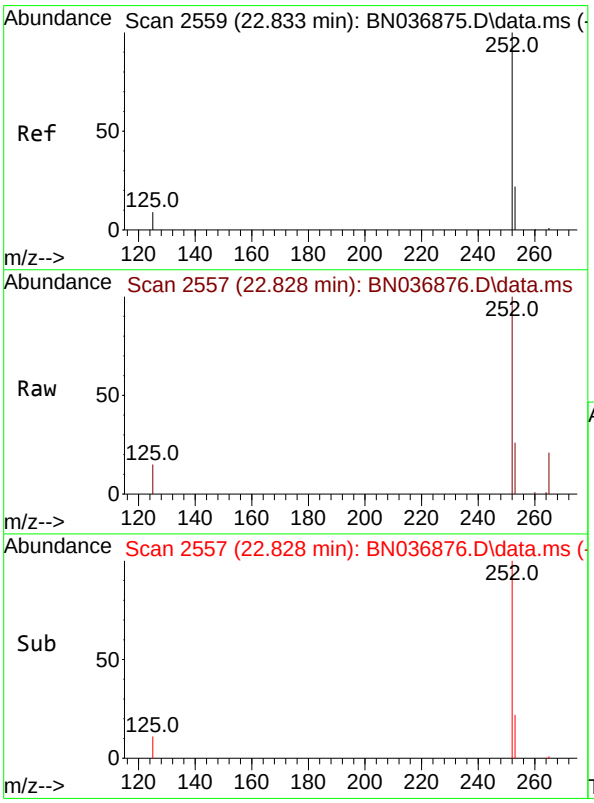
#37
Benzo(b)fluoranthene
Concen: 0.767 ng
RT: 22.787 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 7215

Ion	Ratio	Lower	Upper
252	100		
253	25.4	27.0	40.6#
125	15.3	17.7	26.5#

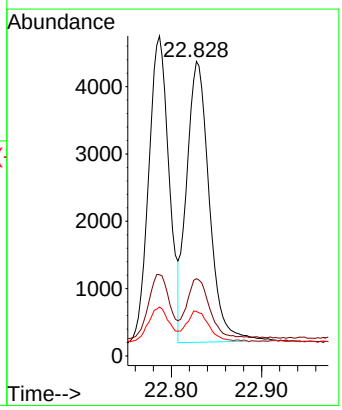


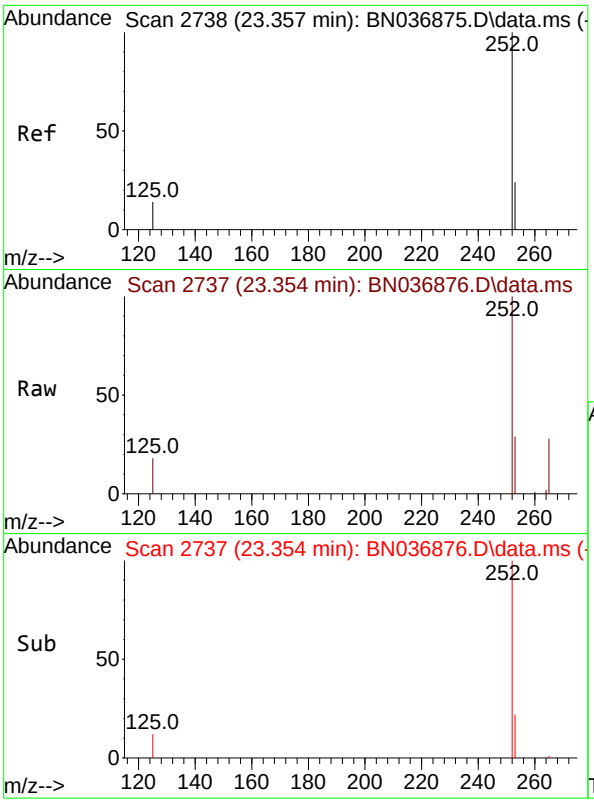


#38
Benzo(k)fluoranthene
Concen: 0.771 ng
RT: 22.828 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:252 Resp: 7294

Ion	Ratio	Lower	Upper
252	100		
253	26.2	26.7	40.1#
125	15.1	16.9	25.3#



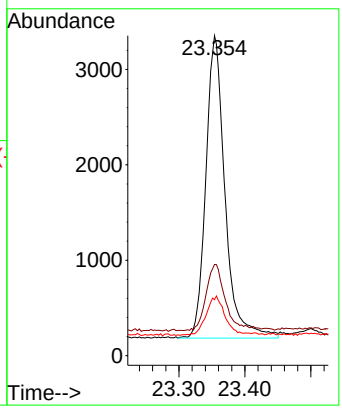


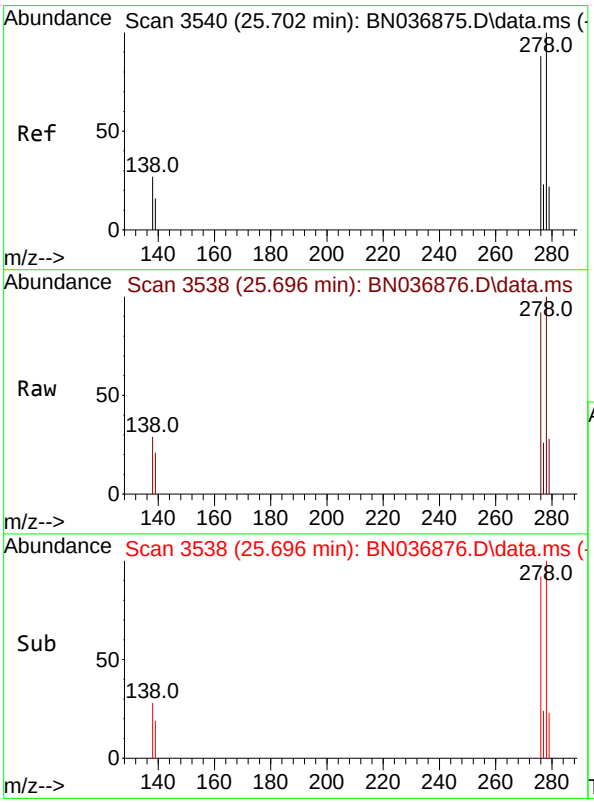
#39
Benzo(a)pyrene
Concen: 0.778 ng
RT: 23.354 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 6413

Ion	Ratio	Lower	Upper
252	100		
253	28.5	31.5	47.3#
125	17.5	22.6	34.0#

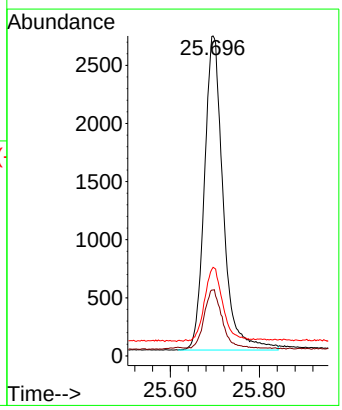


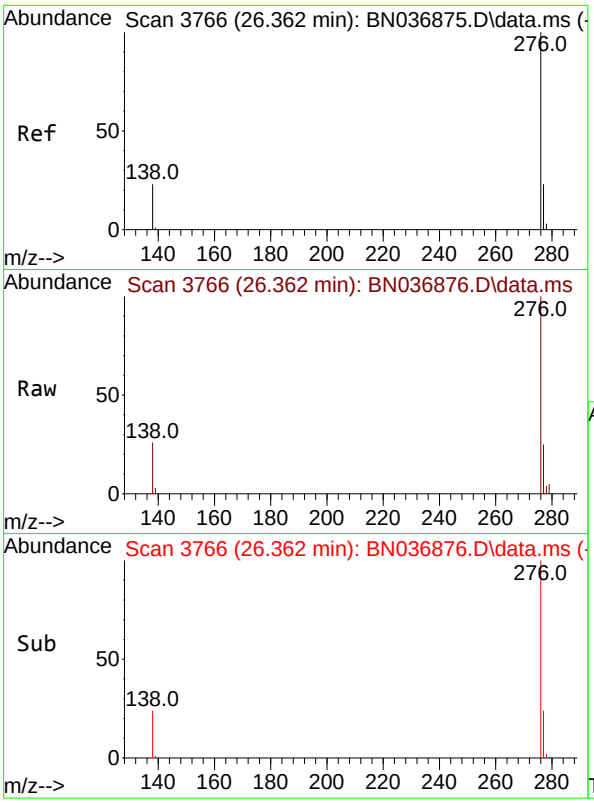


#40
Dibenzo(a,h)anthracene
Concen: 0.788 ng
RT: 25.696 min Scan# 3538
Delta R.T. -0.006 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:278 Resp: 7922

Ion	Ratio	Lower	Upper
278	100		
139	20.6	17.6	26.4
279	27.7	26.7	40.1





#41
Benzo(g,h,i)perylene
Concen: 0.760 ng
RT: 26.362 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 8703

Ion	Ratio	Lower	Upper
276	100		
277	25.5	21.8	32.8
138	25.9	21.6	32.4