Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038104.D
Acq On : 20 Oct 2025 19:09
Operator : RC/JU
Sample : PB170167BSD
Misc :
ALS Vial : 5 Sample Multiplier: 2

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Quant Time: Oct 21 11:07:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	15910	0.800	ng	0.00
7) Naphthalene-d8	10.584	136	42753	0.800	ng	# 0.00
13) Acenaphthene-d10	14.441	164	20532	0.800	ng	0.00
19) Phenanthrene-d10	17.198	188	36706	0.800	ng	0.00
29) Chrysene-d12	21.384	240	24714	0.800	ng	0.00
35) Perylene-d12	23.698	264	22637	0.800	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.356	112	6099	0.336	ng	0.00
5) Phenol-d6	6.944	99	6803	0.285	ng	0.00
8) Nitrobenzene-d5	8.939	82	6235	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.182	152	10623	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	1090	0.280	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	17593	0.419	ng	0.00
27) Fluoranthene-d10	19.229	212	14369	0.311	ng	0.00
31) Terphenyl-d14	19.829	244	11484	0.467	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.268	88	2828	0.350	ng	# 32
3) n-Nitrosodimethylamine	3.572	42	3897	0.363	ng	# 96
6) bis(2-Chloroethyl)ether	7.204	93	7932	0.358	ng	99
9) Naphthalene	10.637	128	21247	0.361	ng	99
10) Hexachlorobutadiene	10.936	225	3847	0.383	ng	# 100
12) 2-Methylnaphthalene	12.258	142	11710	0.304	ng	99
16) Acenaphthylene	14.163	152	18216	0.391	ng	99
17) Acenaphthene	14.505	154	11253	0.339	ng	98
18) Fluorene	15.499	166	14097	0.351	ng	98
20) 4,6-Dinitro-2-methylph...	15.572	198	584	0.389	ng	# 16
21) 4-Bromophenyl-phenylether	16.391	248	4187	0.350	ng	# 91
22) Hexachlorobenzene	16.503	284	5338	0.368	ng	99
23) Atrazine	16.664	200	2736	0.300	ng	98
24) Pentachlorophenol	16.851	266	2496	0.502	ng	98
25) Phenanthrene	17.235	178	20656	0.342	ng	99
26) Anthracene	17.322	178	18137	0.346	ng	100
28) Fluoranthene	19.257	202	20126	0.303	ng	99
30) Pyrene	19.620	202	19840	0.407	ng	100
32) Benzo(a)anthracene	21.366	228	15035	0.348	ng	99
33) Chrysene	21.420	228	18042	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.304	149	6818	0.399	ng	97
36) Indeno(1,2,3-cd)pyrene	26.054	276	20018	0.387	ng	98
37) Benzo(b)fluoranthene	22.996	252	16353	0.335	ng	# 91
38) Benzo(k)fluoranthene	23.043	252	18188	0.370	ng	# 91
39) Benzo(a)pyrene	23.598	252	14317	0.371	ng	# 86
40) Dibenzo(a,h)anthracene	26.078	278	15131	0.375	ng	93
41) Benzo(g,h,i)perylene	26.773	276	17222	0.406	ng	99

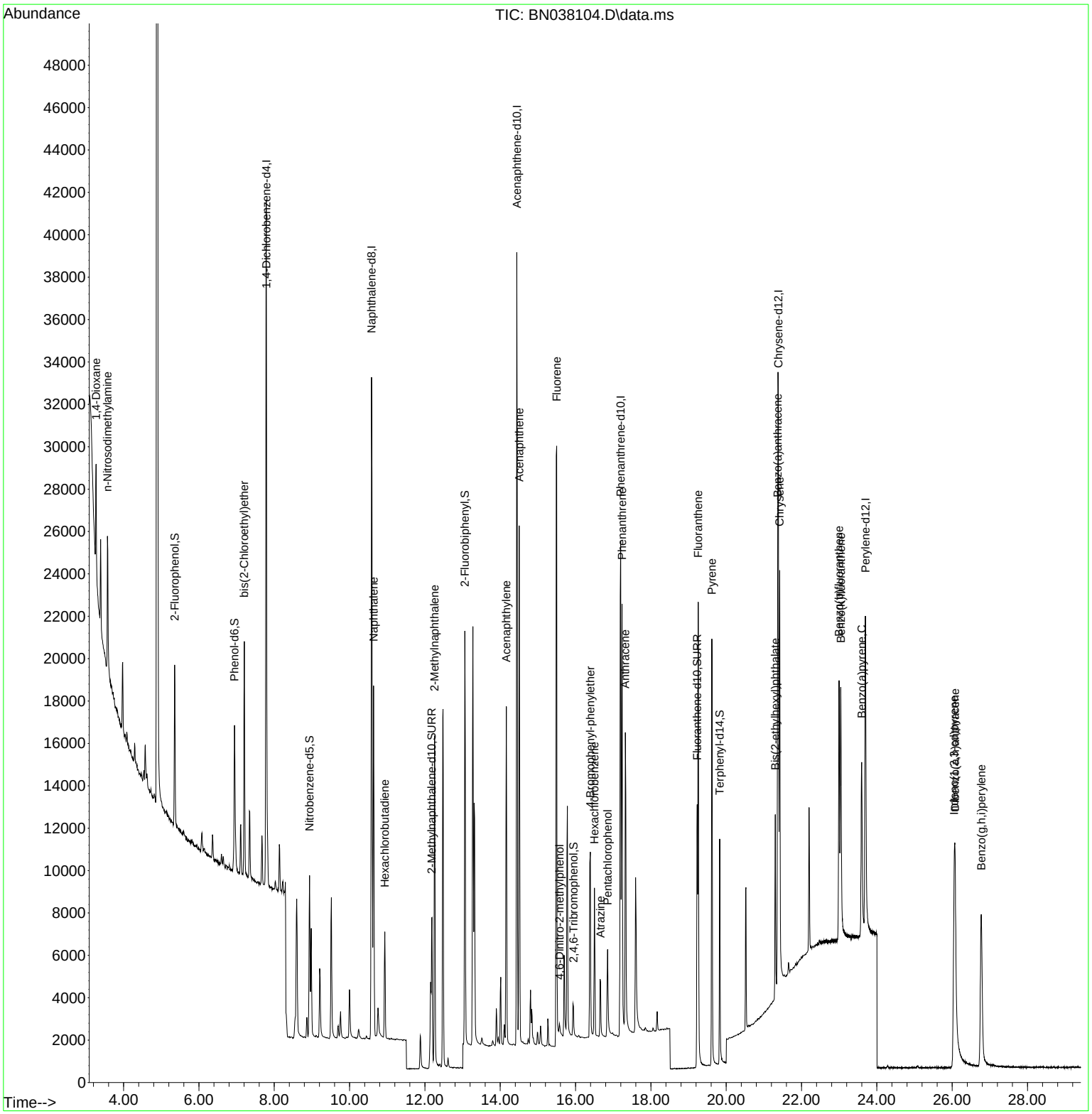
(#) = qualifier out of range (m) = manual integration (+) = signals summed

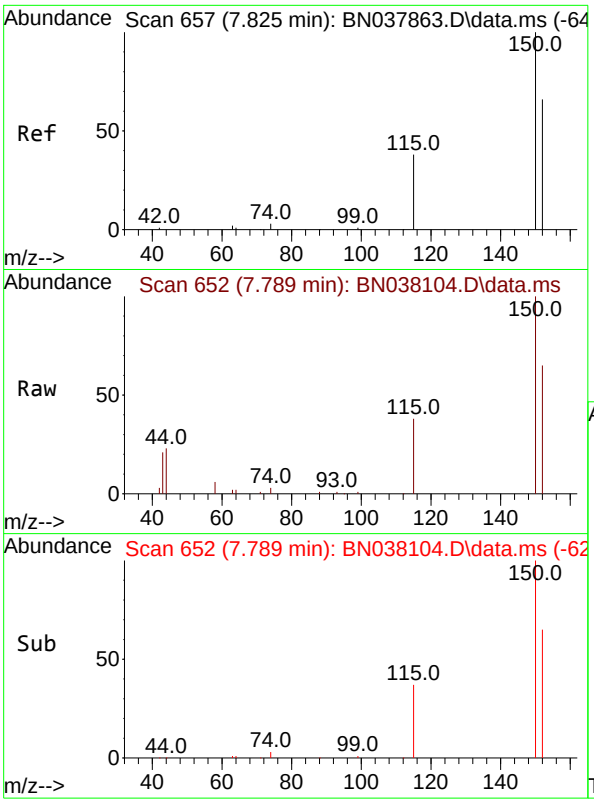
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038104.D
Acq On : 20 Oct 2025 19:09
Operator : RC/JU
Sample : PB170167BSD
Misc :
ALS Vial : 5 Sample Multiplier: 2

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Quant Time: Oct 21 11:07:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration



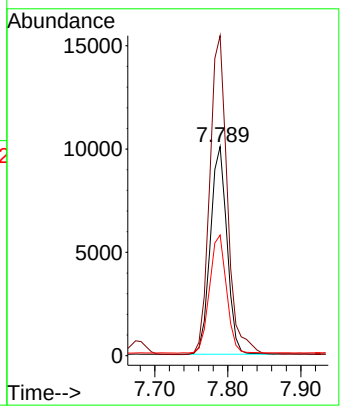


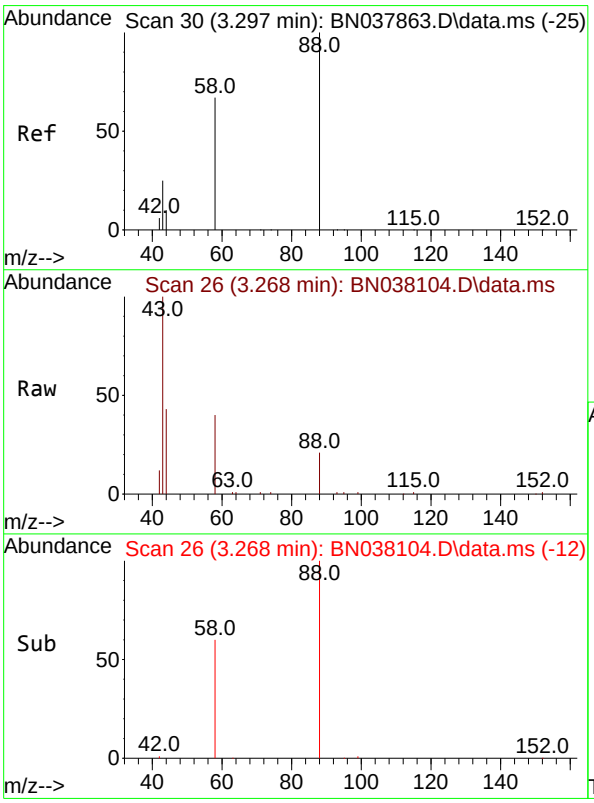
#1
1,4-Dichlorobenzene-d4
Concen: 0.800 ng
RT: 7.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:152 Resp: 15910

Ion	Ratio	Lower	Upper
152	100		
150	153.1	121.0	181.4
115	57.7	47.4	71.0

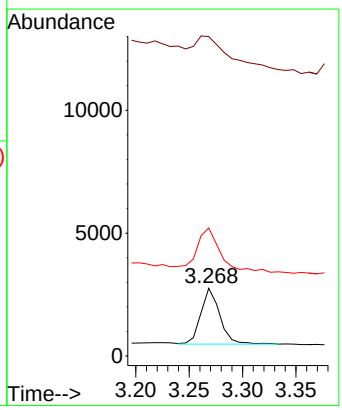


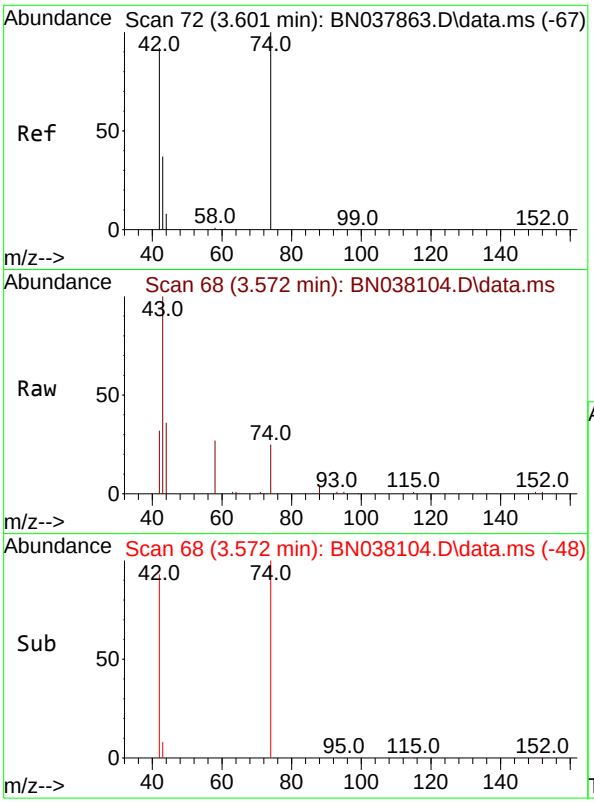


#2
1,4-Dioxane
Concen: 0.350 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion: 88 Resp: 2828

Ion	Ratio	Lower	Upper
88	100		
43	112.6	26.6	39.8#
58	103.9	58.9	88.3#



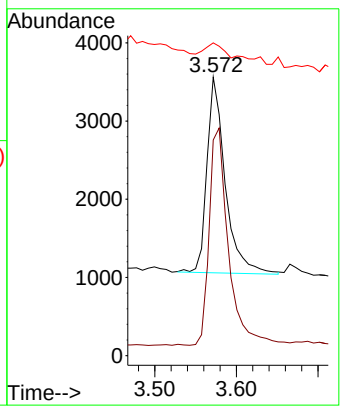


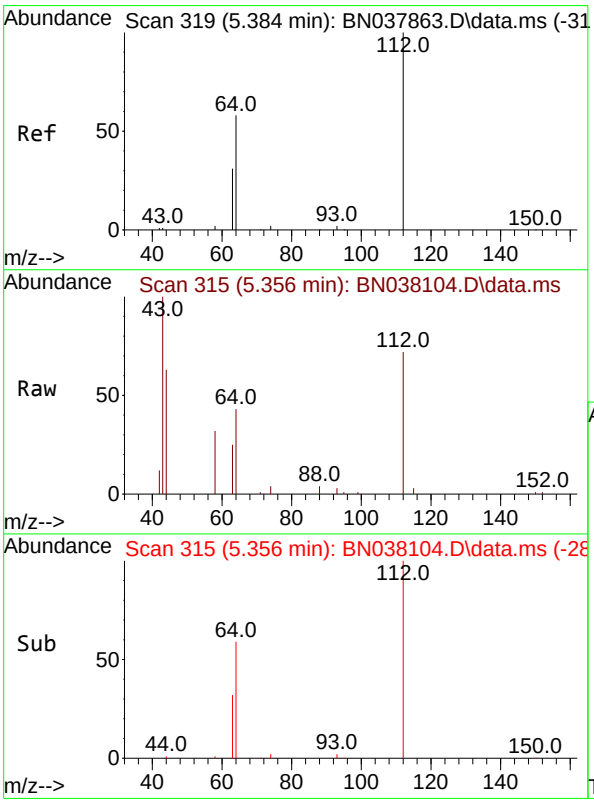
#3
n-Nitrosodimethylamine
Concen: 0.363 ng
RT: 3.572 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion: 42 Resp: 3897

Ion	Ratio	Lower	Upper
42	100		
74	116.8	93.4	140.0
44	18.3	22.2	33.4#

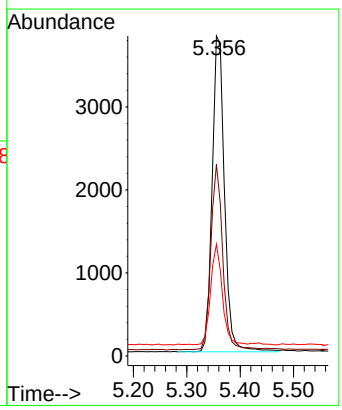


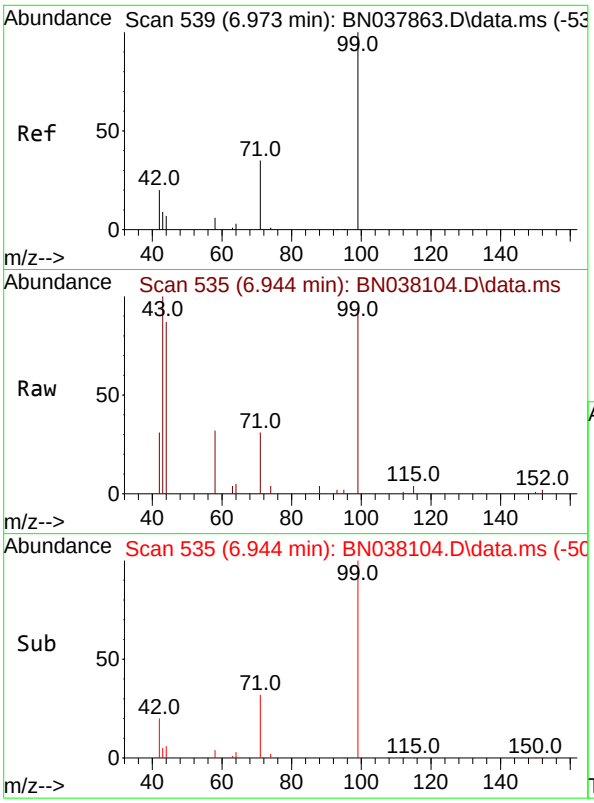


#4
2-Fluorophenol
Concen: 0.336 ng
RT: 5.356 min Scan# 315
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:112 Resp: 6099

Ion	Ratio	Lower	Upper
112	100		
64	56.5	44.6	66.8
63	30.0	24.9	37.3



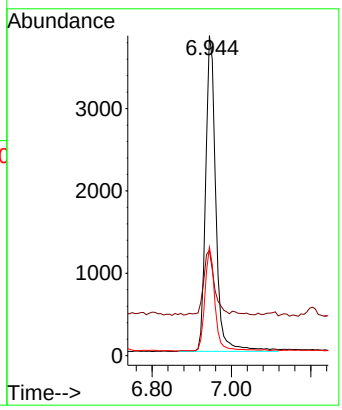


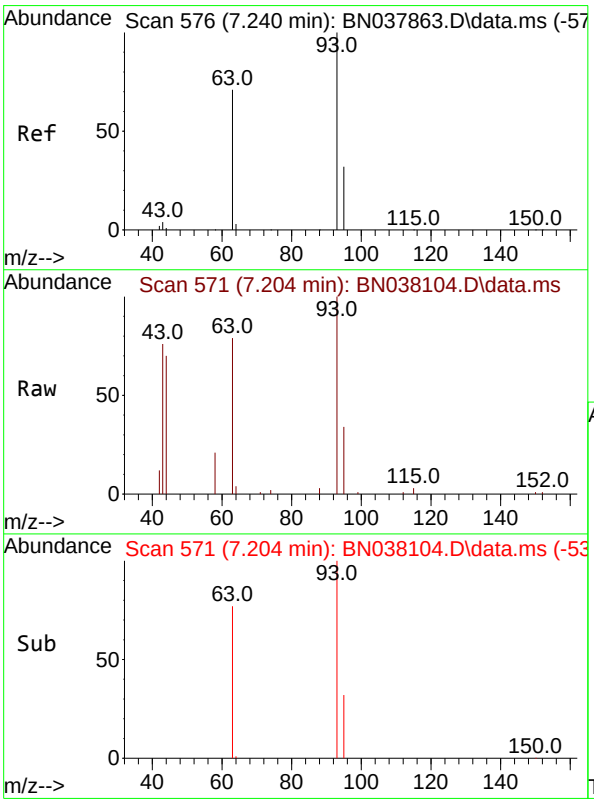
#5
Phenol-d6
Concen: 0.285 ng
RT: 6.944 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion: 99 Resp: 6803

Ion	Ratio	Lower	Upper
99	100		
42	21.8	17.2	25.8
71	32.0	27.3	40.9

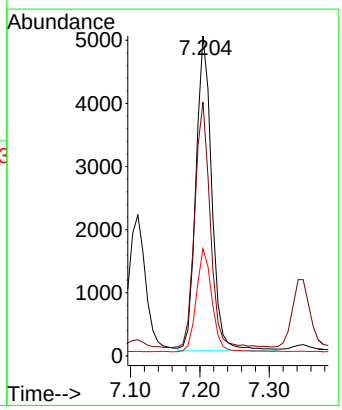


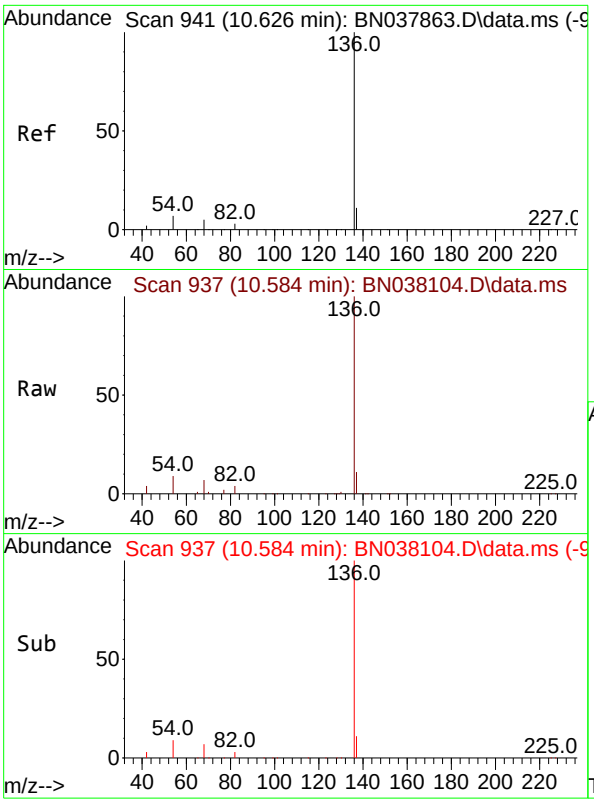


#6
bis(2-Chloroethyl)ether
Concen: 0.358 ng
RT: 7.204 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion: 93 Resp: 7932

Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.1	90.1
95	32.1	25.4	38.2



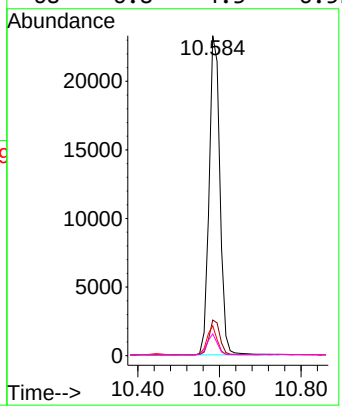


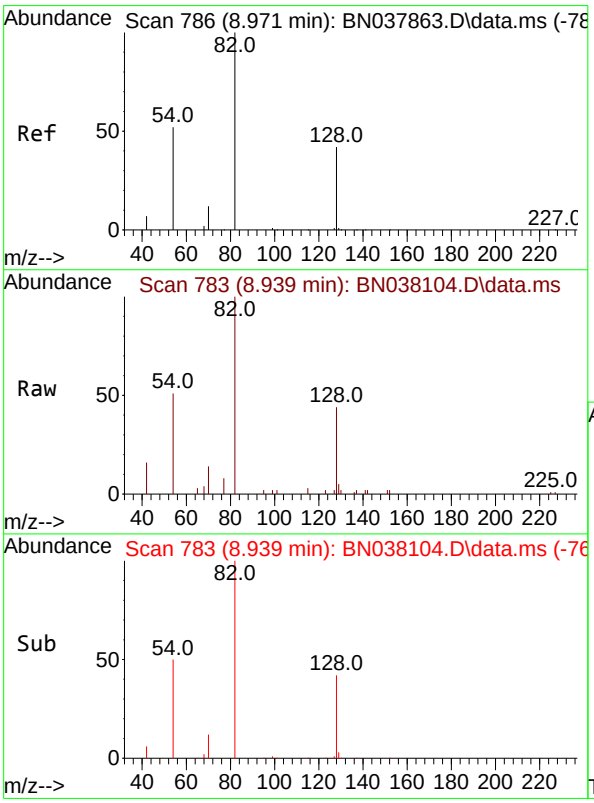
#7
Naphthalene-d8
Concen: 0.800 ng
RT: 10.584 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:136 Resp: 42753

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	9.4	5.8	8.8#
68	6.8	4.3	6.5#

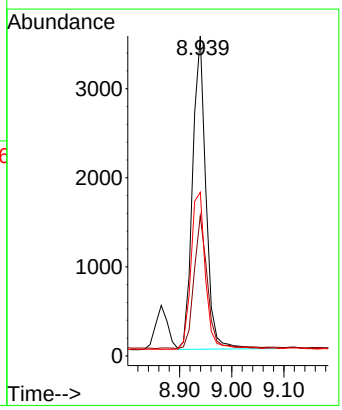


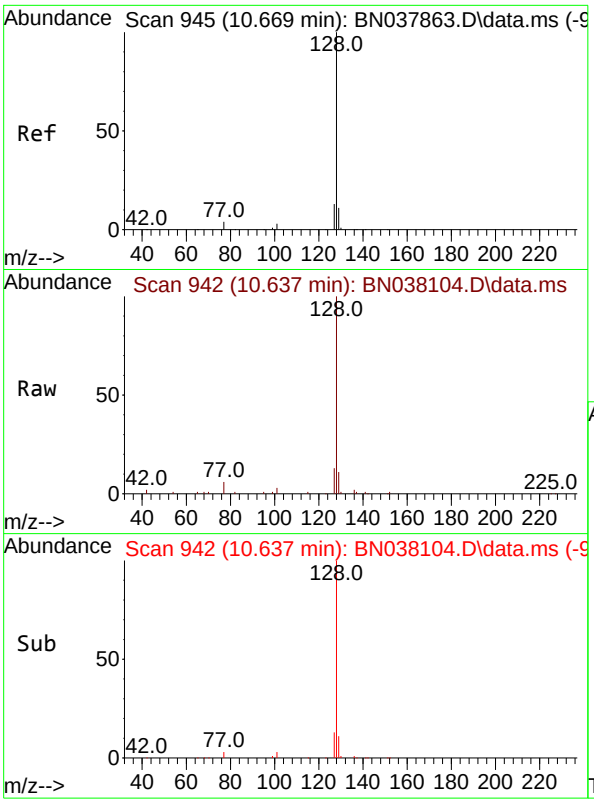


#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.939 min Scan# 783
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion: 82 Resp: 6235

Ion	Ratio	Lower	Upper
82	100		
128	43.8	34.8	52.2
54	51.1	42.2	63.2



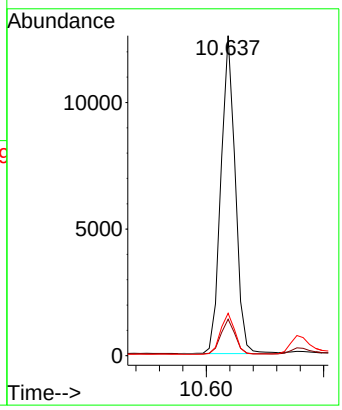


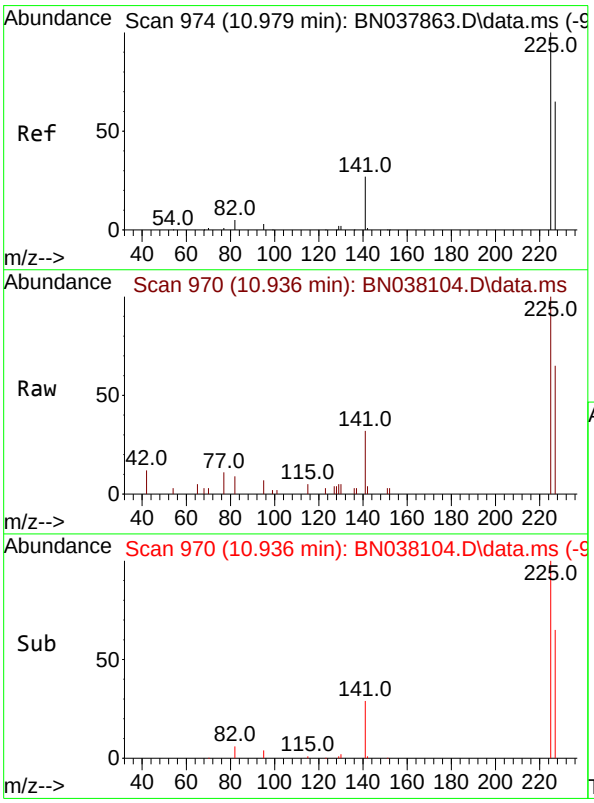
#9
Naphthalene
Concen: 0.361 ng
RT: 10.637 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:128 Resp: 21247

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.3	11.0	16.6

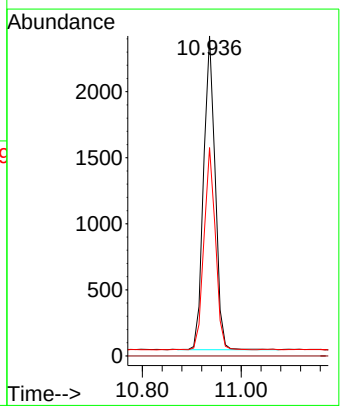


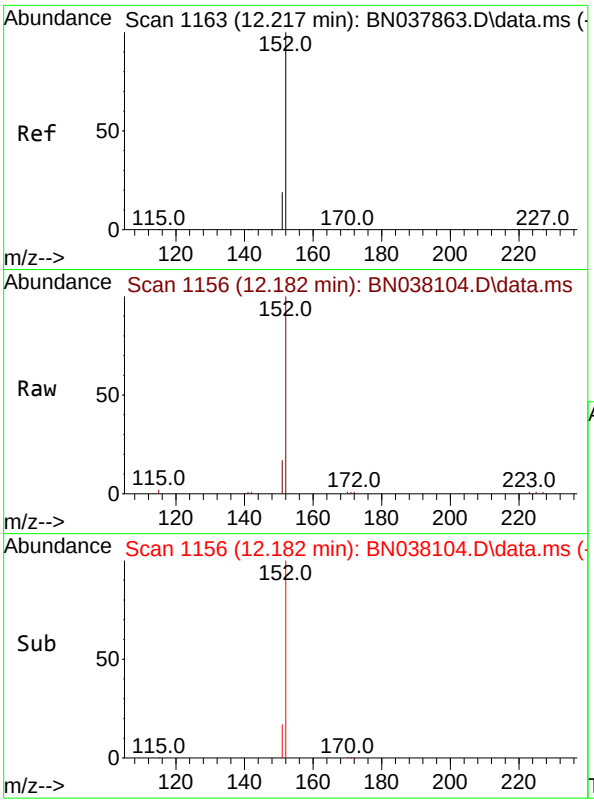


#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.936 min Scan# 970
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:225 Resp: 3847

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.4	77.2



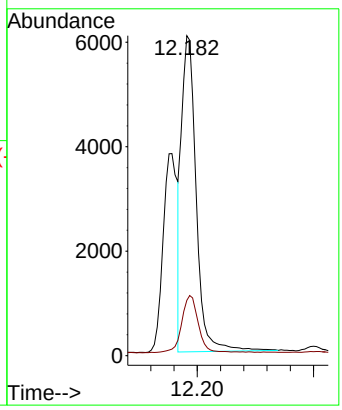


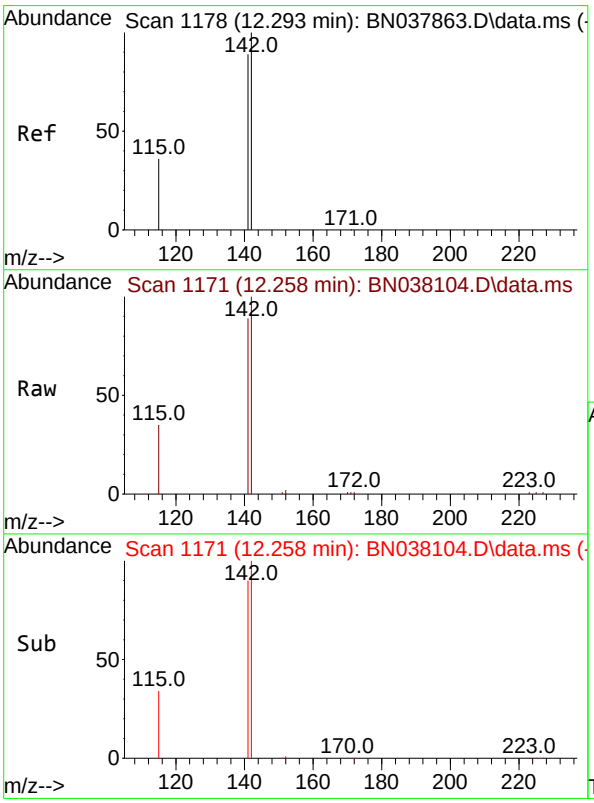
#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 12.182 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:152 Resp: 10623

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.4	26.2

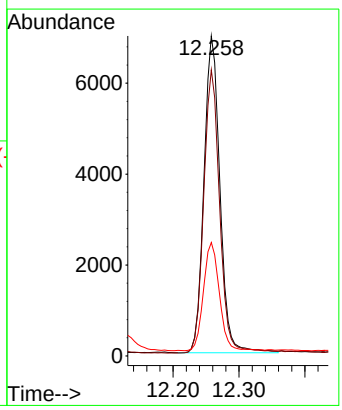


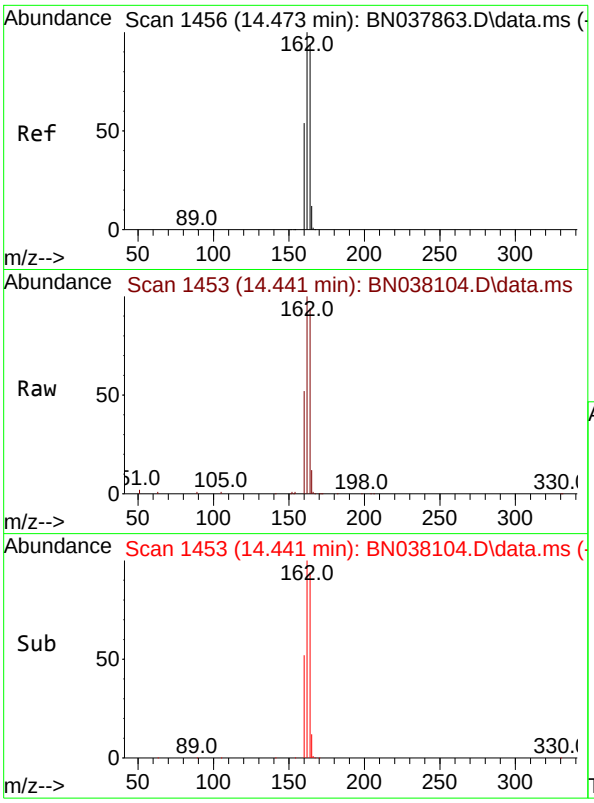


#12
2-Methylnaphthalene
Concen: 0.304 ng
RT: 12.258 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:142 Resp: 11710

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.2	106.8
115	35.5	29.7	44.5



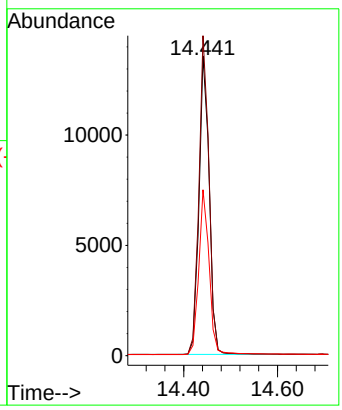


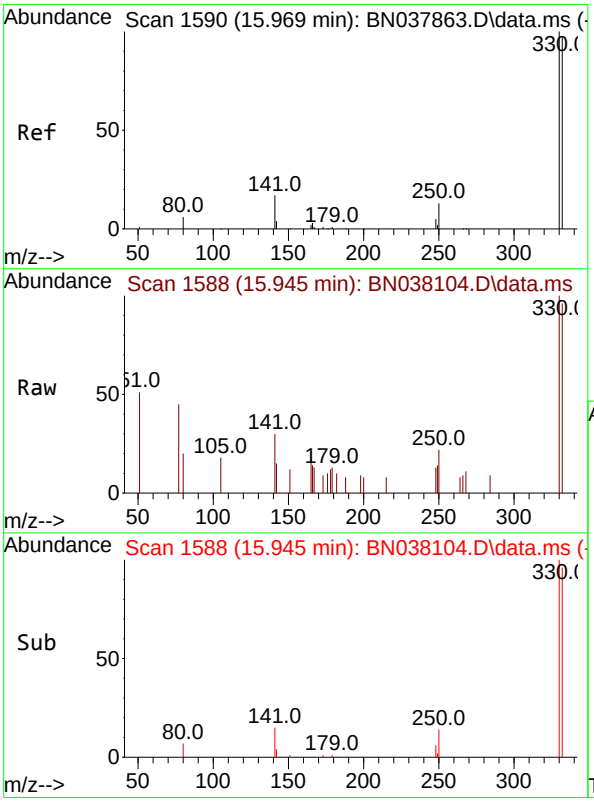
#13
Acenaphthene-d10
Concen: 0.800 ng
RT: 14.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:164 Resp: 20532

Ion	Ratio	Lower	Upper
164	100		
162	106.7	84.8	127.2
160	55.3	46.1	69.1

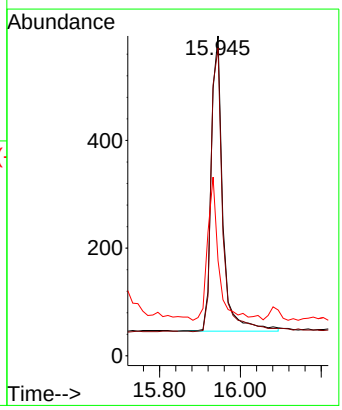


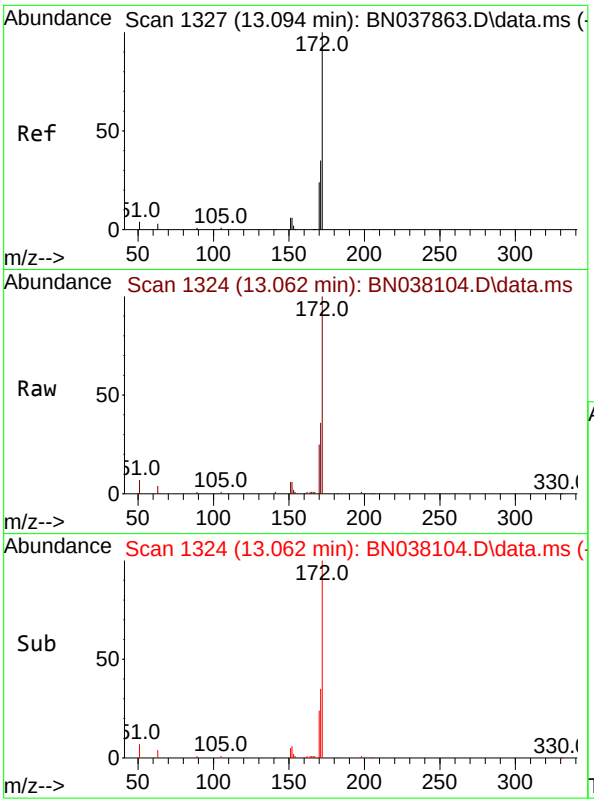


#14
2,4,6-Tribromophenol
Concen: 0.280 ng
RT: 15.945 min Scan# 1588
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:330 Resp: 1090

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.2	115.8
141	47.0	37.2	55.8



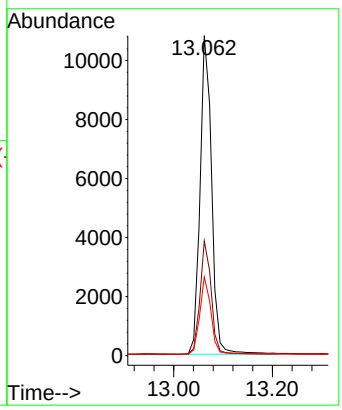


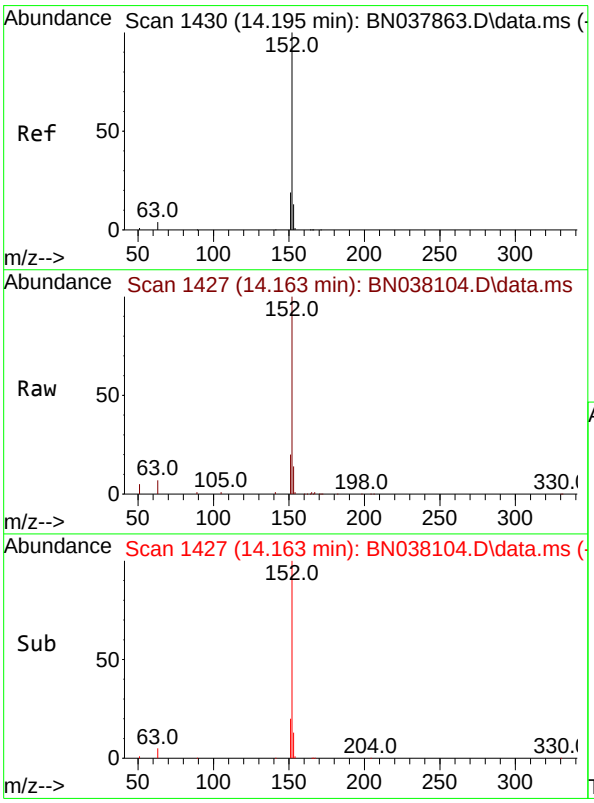
#15
2-Fluorobiphenyl
Concen: 0.419 ng
RT: 13.062 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:172 Resp: 17593

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5

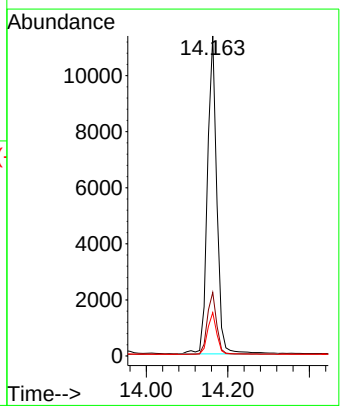


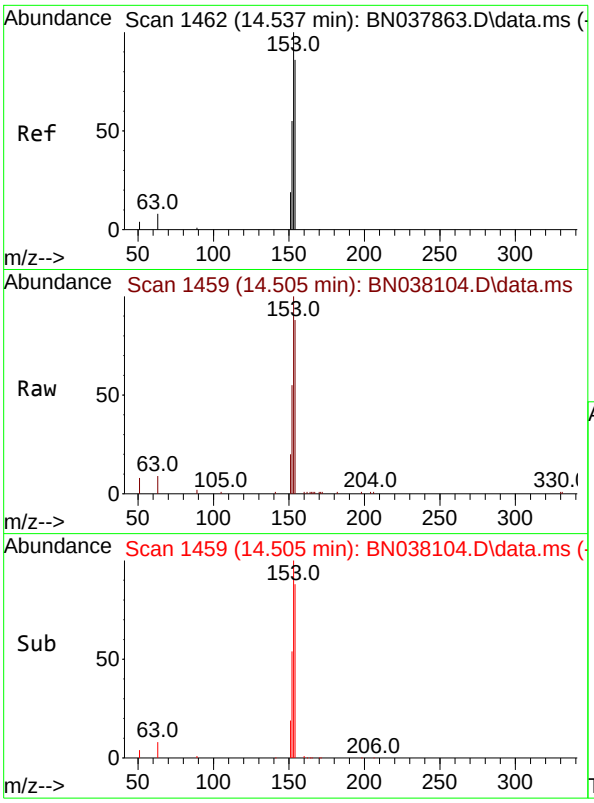


#16
Acenaphthylene
Concen: 0.391 ng
RT: 14.163 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:152 Resp: 18216

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.8	23.8
153	13.0	10.5	15.7



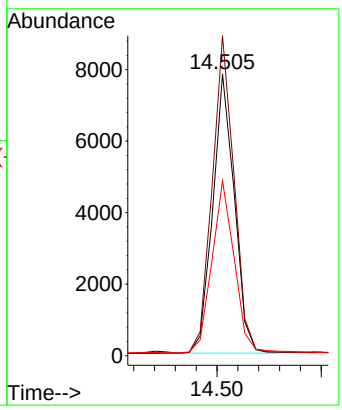


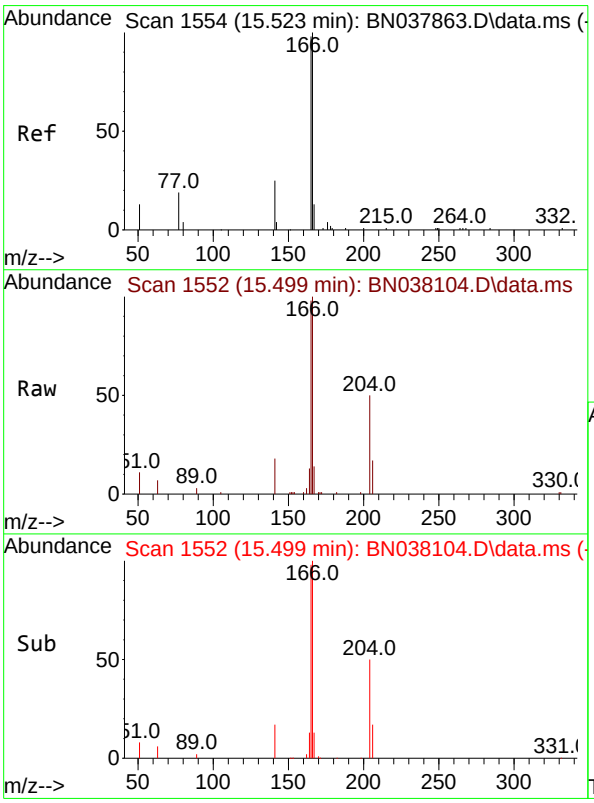
#17
Acenaphthene
Concen: 0.339 ng
RT: 14.505 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:154 Resp: 11253

Ion	Ratio	Lower	Upper
154	100		
153	116.4	90.5	135.7
152	64.5	51.8	77.8

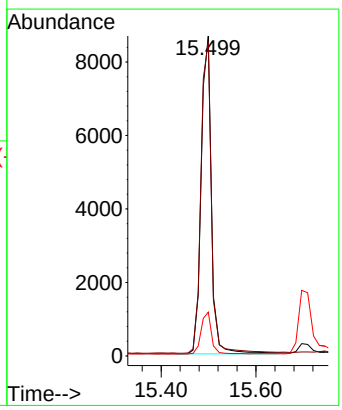


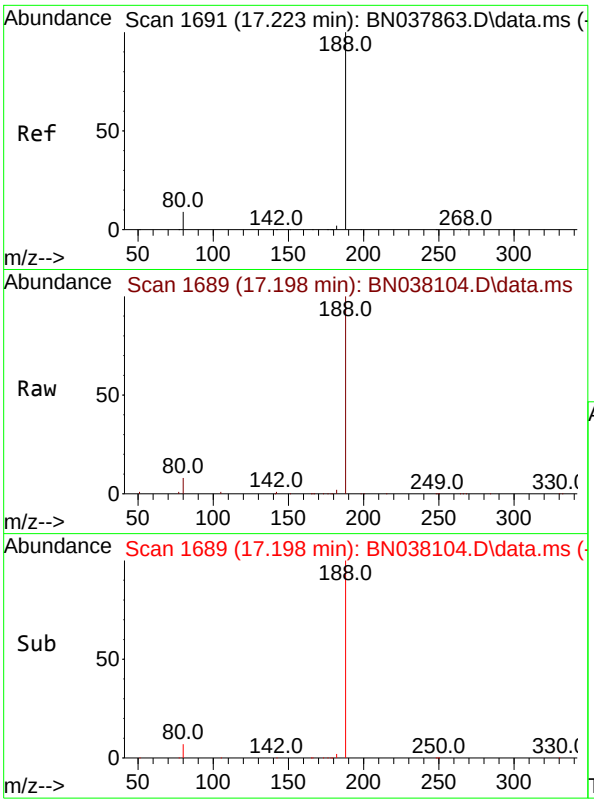


#18
Fluorene
Concen: 0.351 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:166 Resp: 14097

Ion	Ratio	Lower	Upper
166	100		
165	100.5	79.0	118.4
167	12.9	10.6	16.0



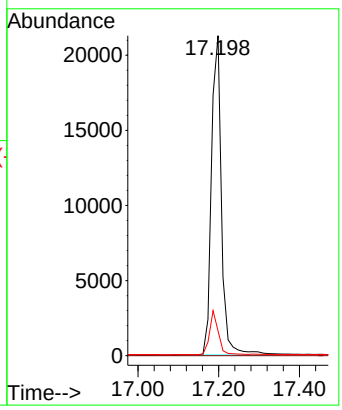


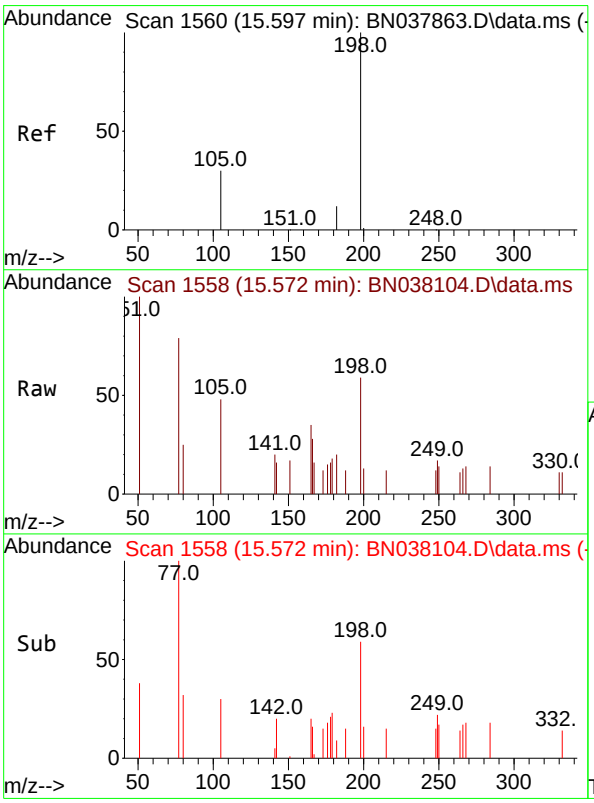
#19
Phenanthrene-d10
Concen: 0.800 ng
RT: 17.198 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:188 Resp: 36706

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	7.6	11.4

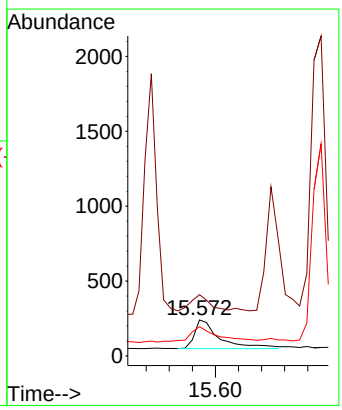


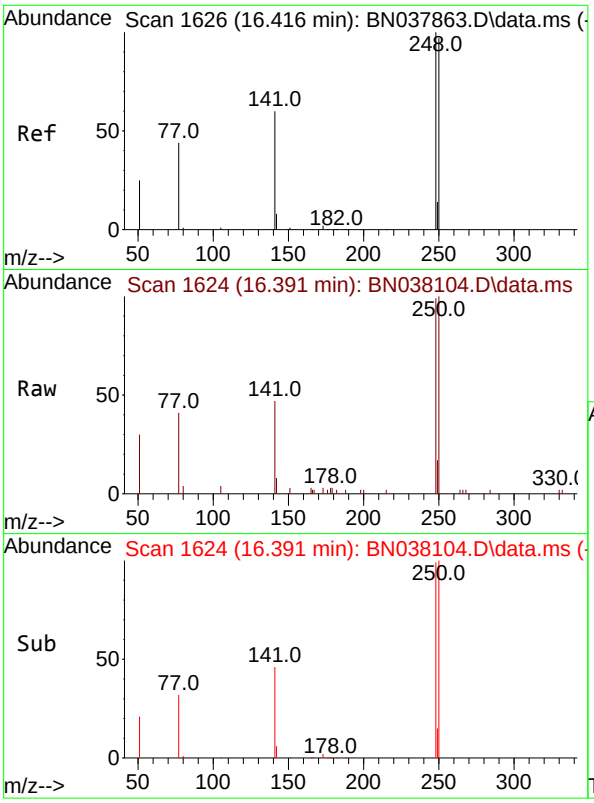


#20
4,6-Dinitro-2-methylphenol
Concen: 0.389 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:198 Resp: 584

Ion	Ratio	Lower	Upper
198	100		
51	169.7	59.1	88.7#
105	81.3	41.3	61.9#



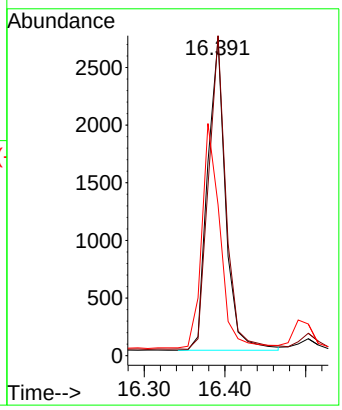


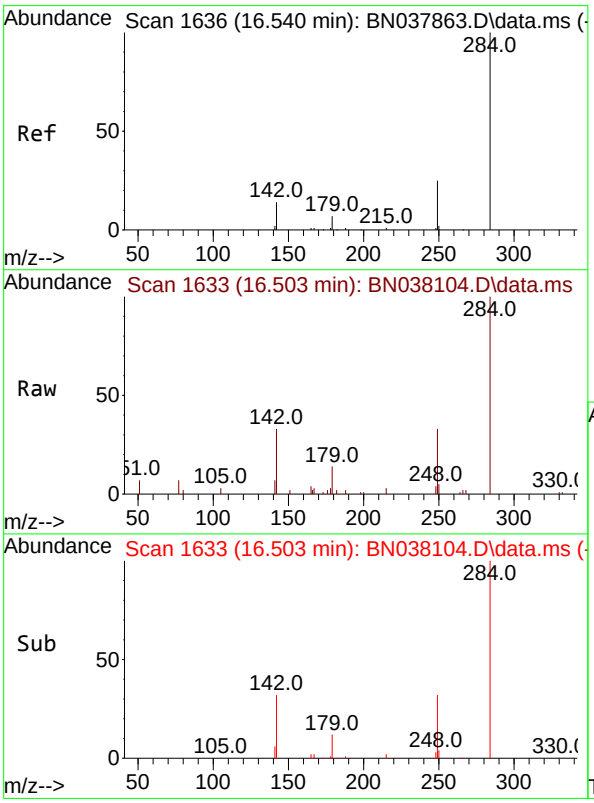
#21
4-Bromophenyl-phenylether
Concen: 0.350 ng
RT: 16.391 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:248 Resp: 4187

Ion	Ratio	Lower	Upper
248	100		
250	100.9	77.6	116.4
141	47.6	48.8	73.2#

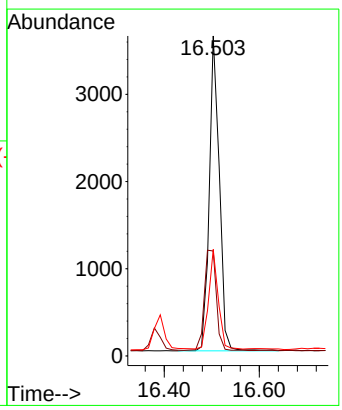


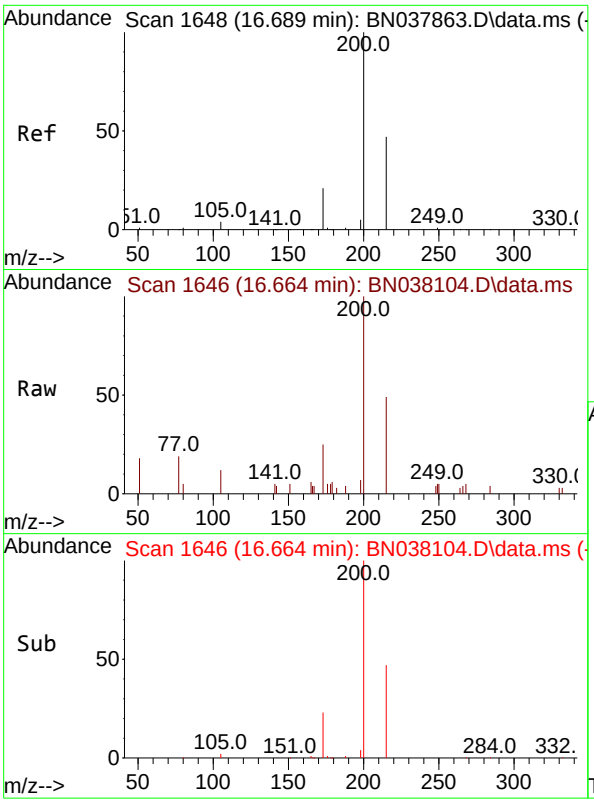


#22
Hexachlorobenzene
Concen: 0.368 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:284 Resp: 5338

Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.9	46.3
249	30.3	23.9	35.9



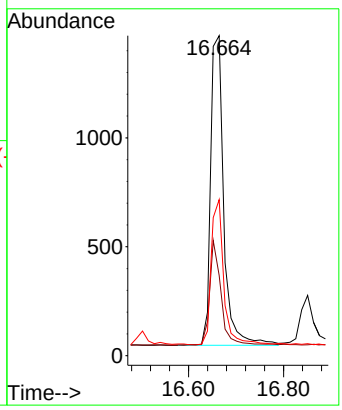


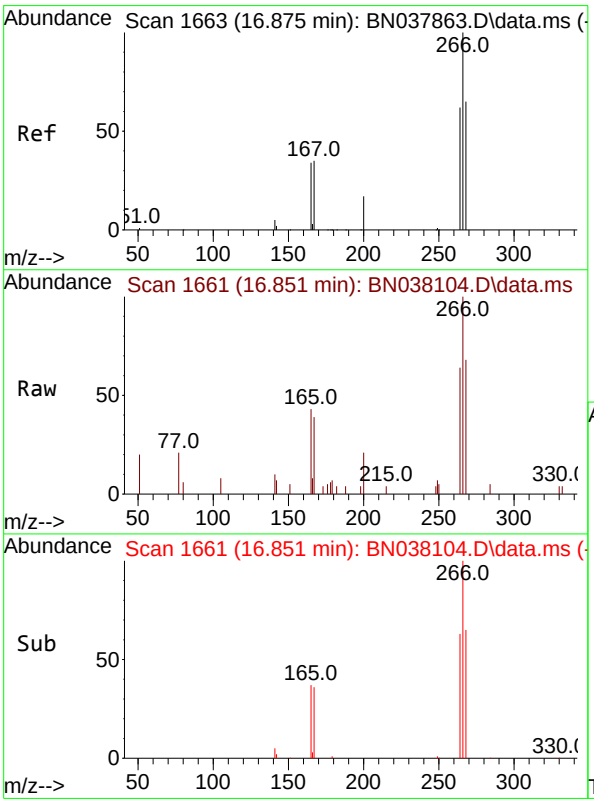
#23
Atrazine
Concen: 0.300 ng
RT: 16.664 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:200 Resp: 2736

Ion	Ratio	Lower	Upper
200	100		
173	25.1	18.3	27.5
215	48.7	38.6	58.0

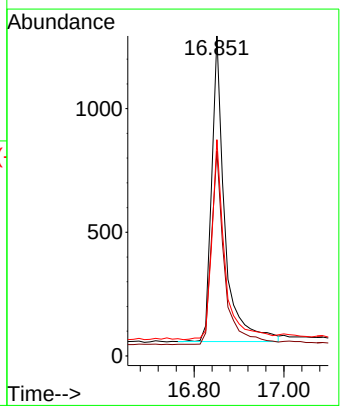


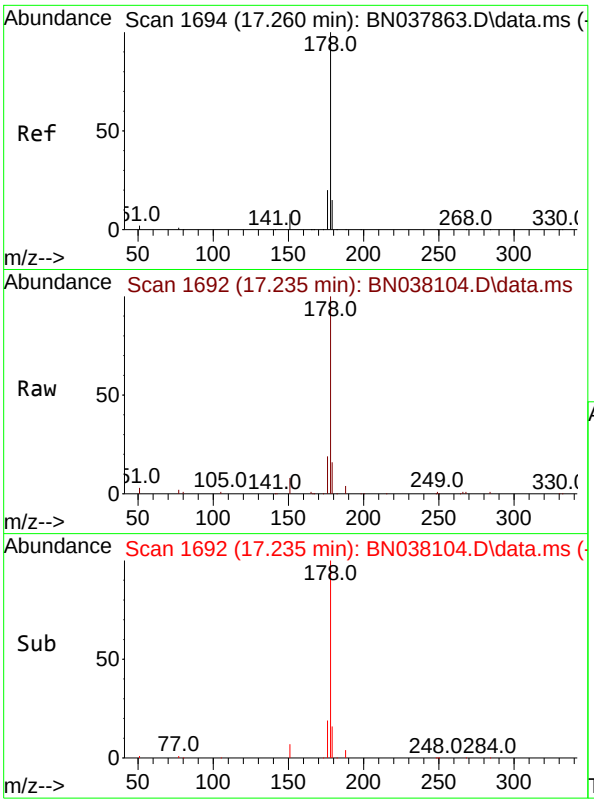


#24
Pentachlorophenol
Concen: 0.502 ng
RT: 16.851 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:266 Resp: 2496

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.9	76.3
268	64.5	54.3	81.5



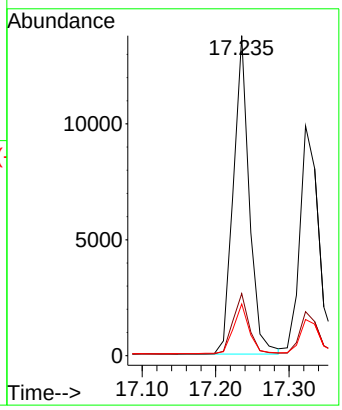


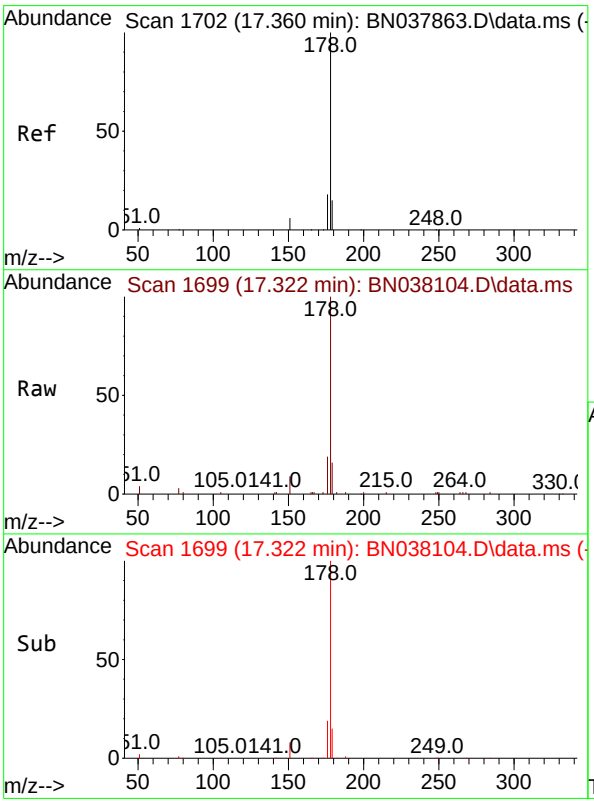
#25
Phenanthrene
Concen: 0.342 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:178 Resp: 20656

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.9	12.3	18.5

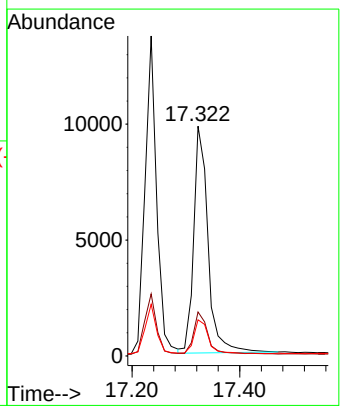


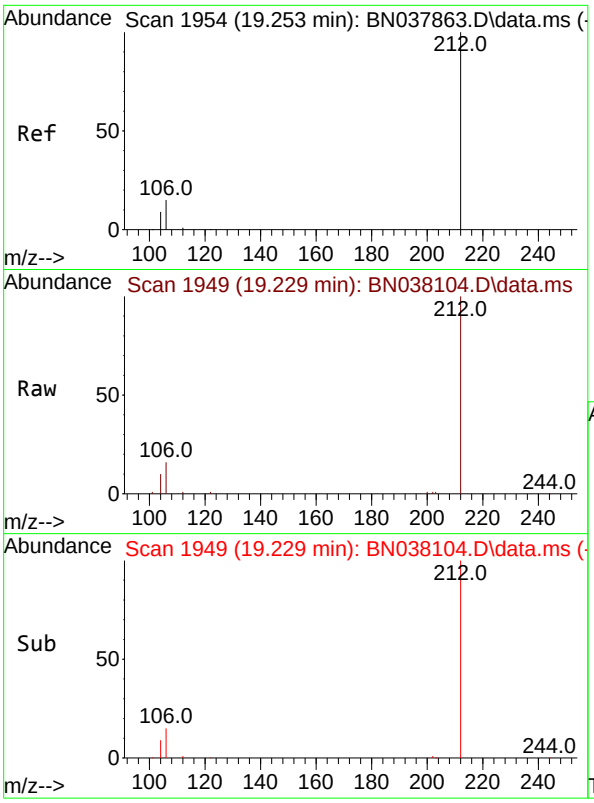


#26
Anthracene
Concen: 0.346 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:178 Resp: 18137

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.3	12.3	18.5



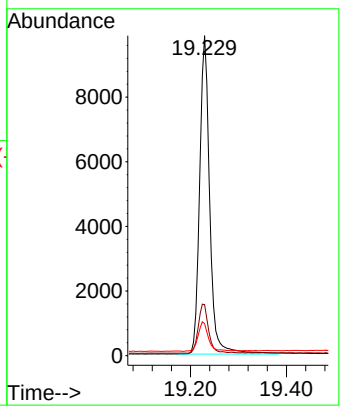


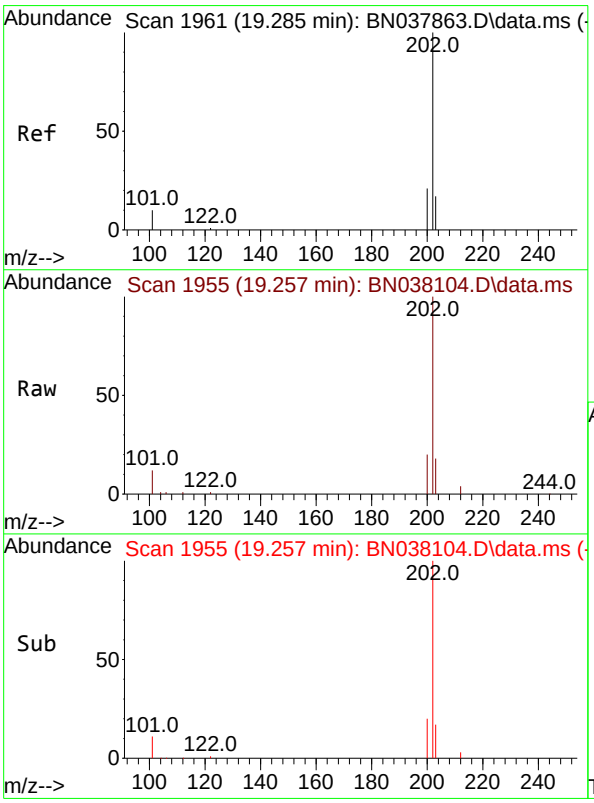
#27
Fluoranthene-d10
Concen: 0.311 ng
RT: 19.229 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:212 Resp: 14369

Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.6	19.0
104	9.7	7.4	11.0

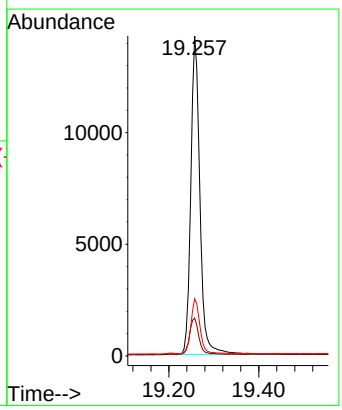


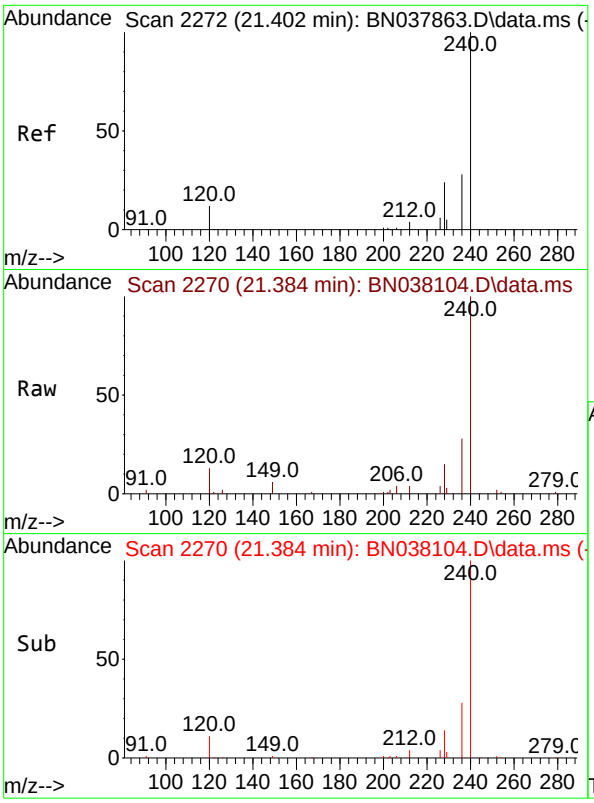


#28
Fluoranthene
Concen: 0.303 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.005 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:202 Resp: 20126

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.2	13.6	20.4



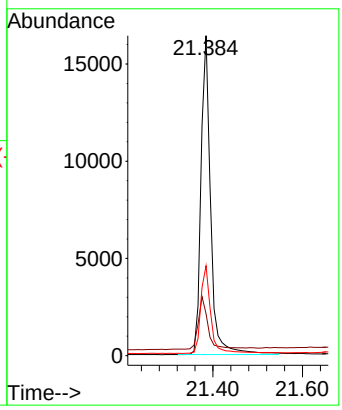


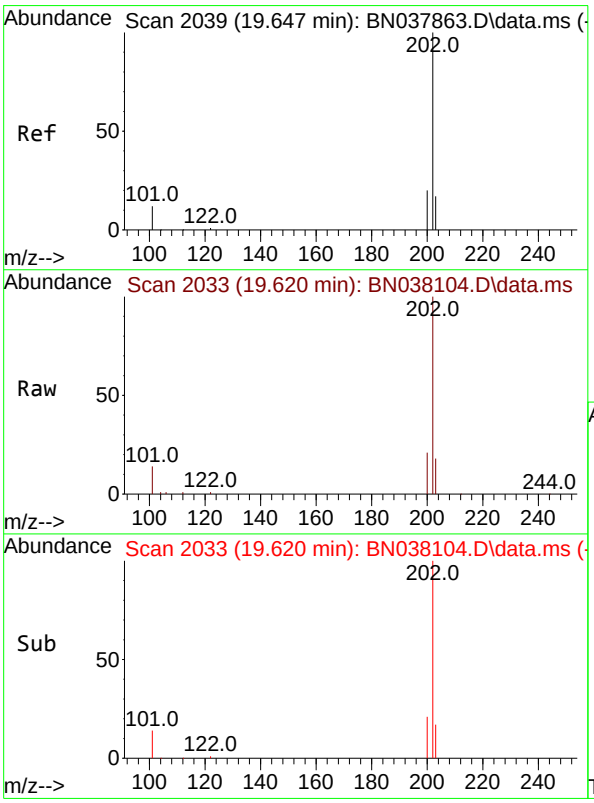
#29
Chrysene-d12
Concen: 0.800 ng
RT: 21.384 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:240 Resp: 24714

Ion	Ratio	Lower	Upper
240	100		
120	13.1	11.4	17.2
236	28.1	23.0	34.6

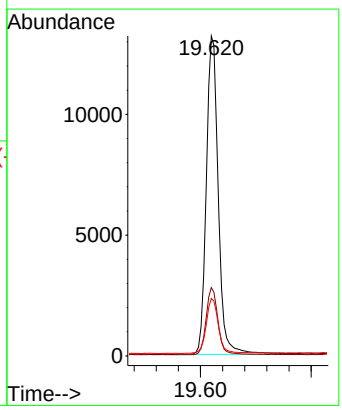


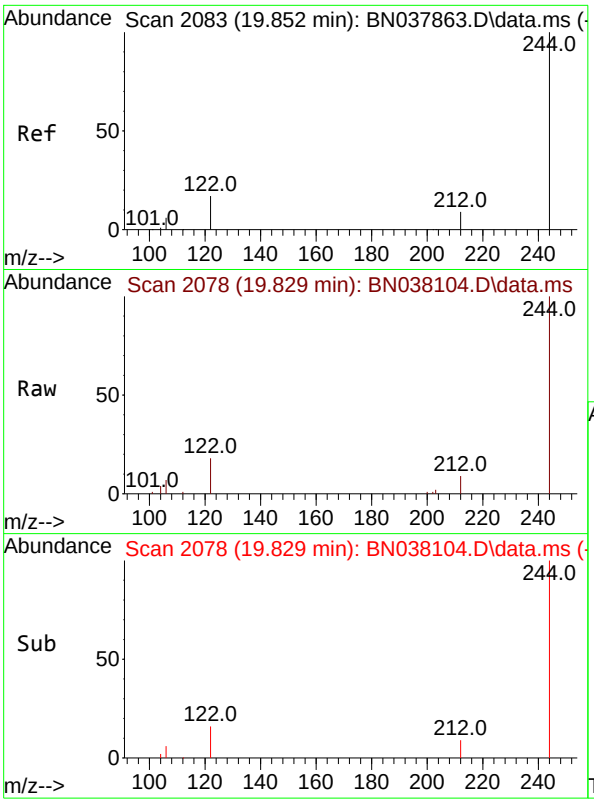


#30
Pyrene
Concen: 0.407 ng
RT: 19.620 min Scan# 2033
Delta R.T. -0.005 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:202 Resp: 19840

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	17.6	14.2	21.4



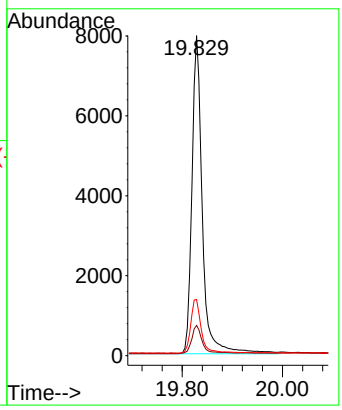


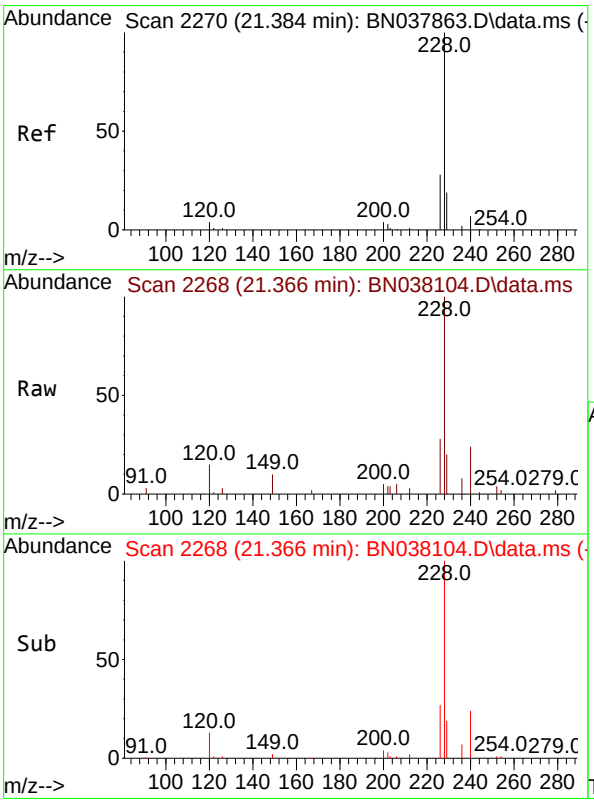
#31
Terphenyl-d14
Concen: 0.467 ng
RT: 19.829 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:244 Resp: 11484

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.6	13.9	20.9

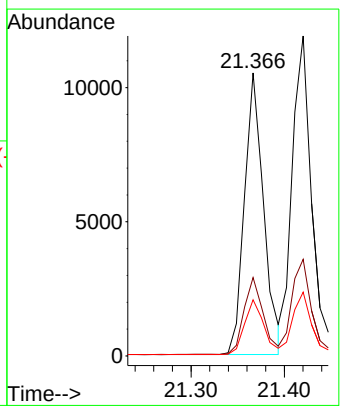


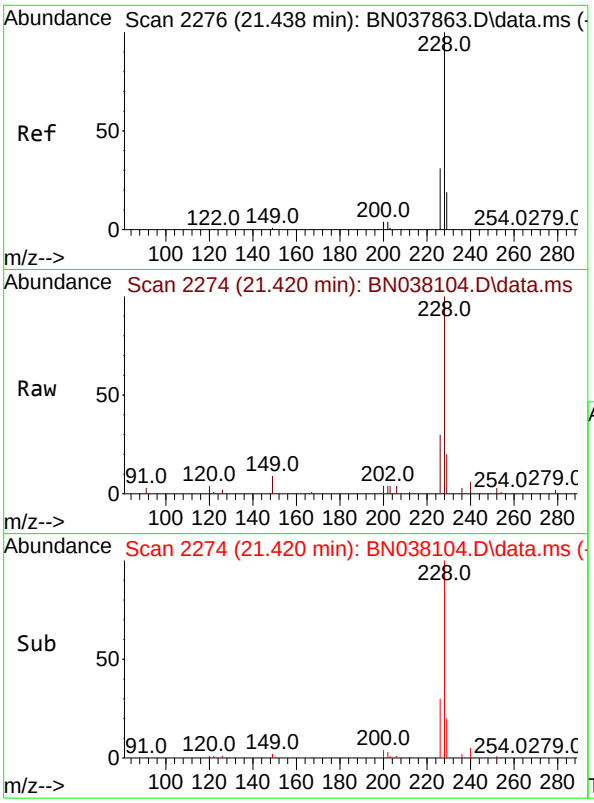


#32
Benzo(a)anthracene
Concen: 0.348 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:228 Resp: 15035

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	33.8
229	19.8	15.6	23.4



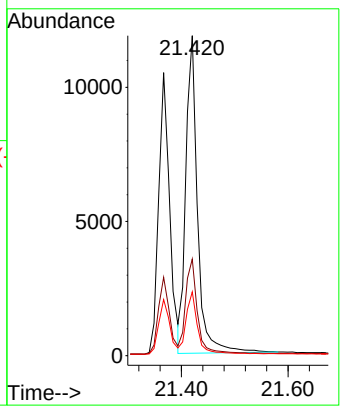


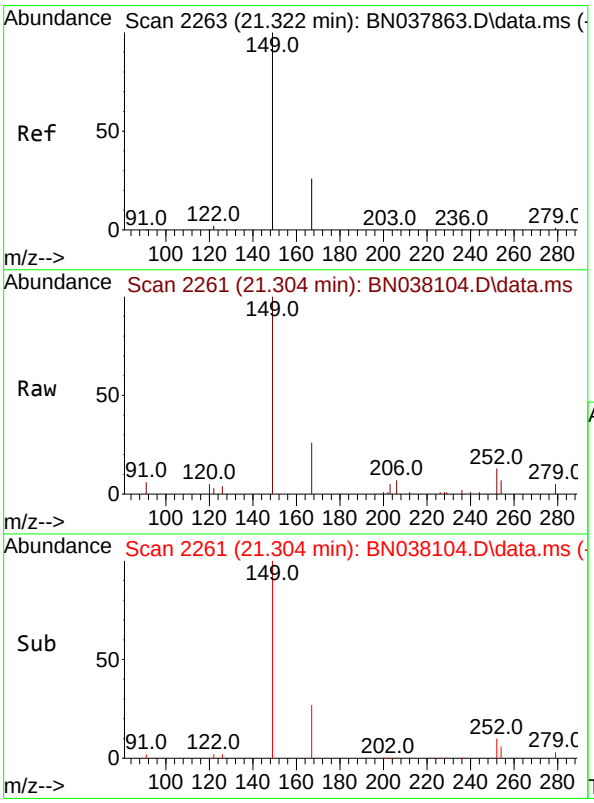
#33
Chrysene
Concen: 0.386 ng
RT: 21.420 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:228 Resp: 18042

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.9	15.6	23.4

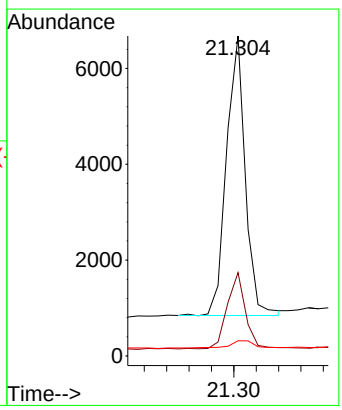


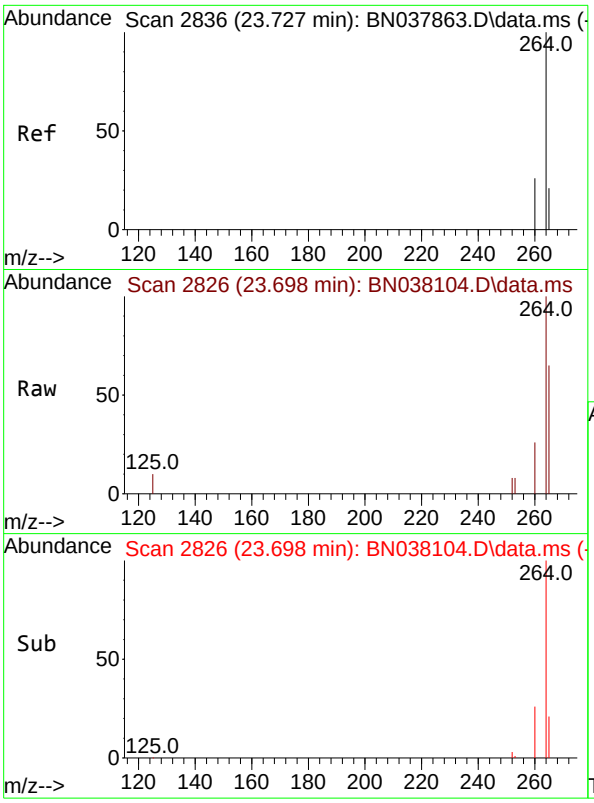


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:149 Resp: 6818

Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.4	30.6
279	3.4	2.4	3.6



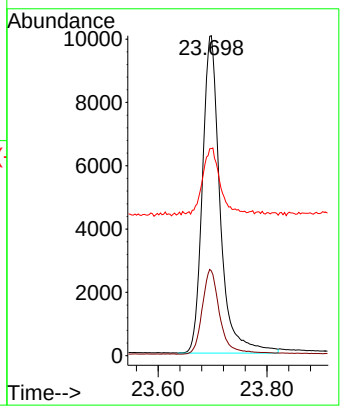


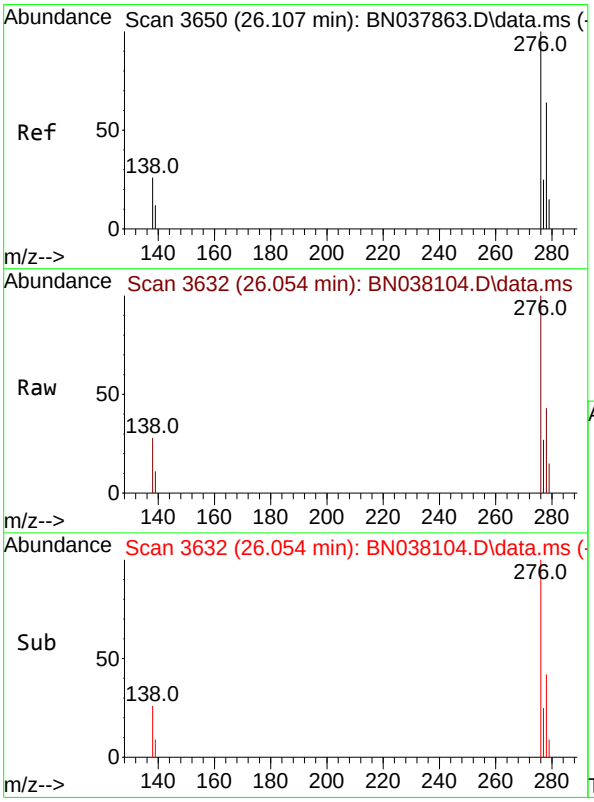
#35
Perylene-d12
Concen: 0.800 ng
RT: 23.698 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:264 Resp: 22637

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.5	32.3
265	64.8	53.8	80.6

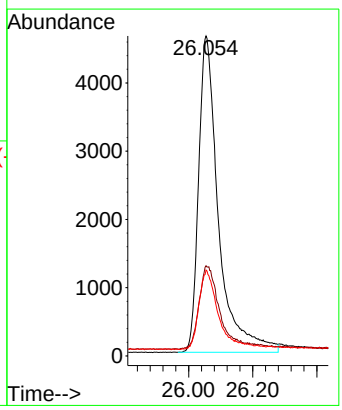


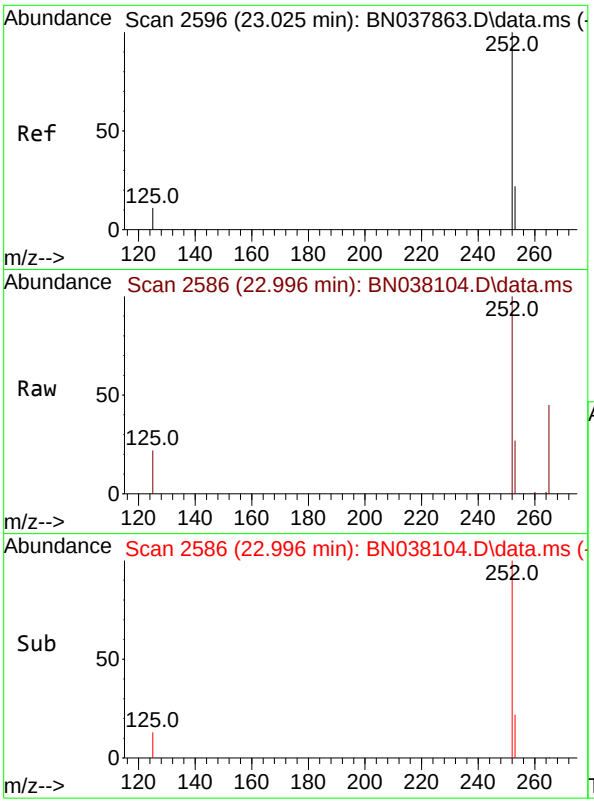


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.387 ng
RT: 26.054 min Scan# 3632
Delta R.T. -0.006 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:276 Resp: 20018

Ion	Ratio	Lower	Upper
276	100		
138	26.9	21.4	32.0
277	24.0	20.3	30.5



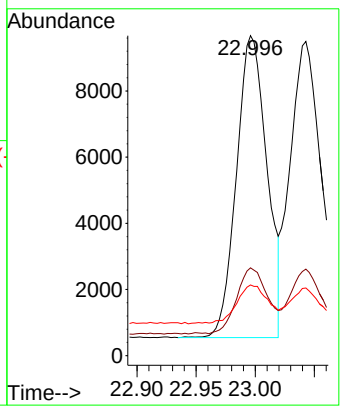


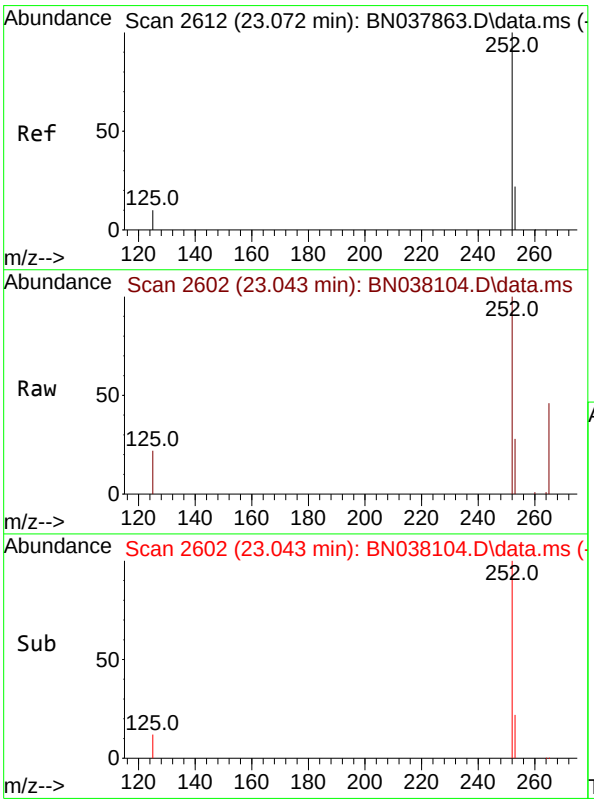
#37
Benzo(b)fluoranthene
Concen: 0.335 ng
RT: 22.996 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:252 Resp: 16353

Ion	Ratio	Lower	Upper
252	100		
253	27.4	19.4	29.0
125	22.1	13.0	19.4#

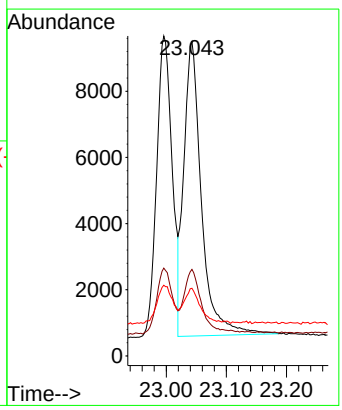


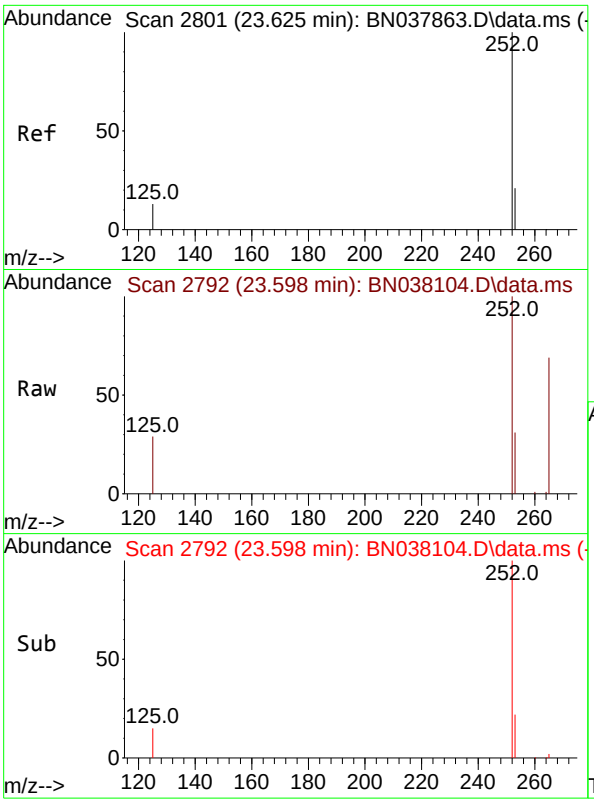


#38
Benzo(k)fluoranthene
Concen: 0.370 ng
RT: 23.043 min Scan# 2602
Delta R.T. -0.003 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:252 Resp: 18188

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.5	29.3
125	21.5	13.0	19.4#



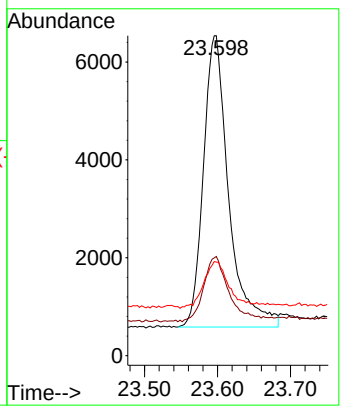


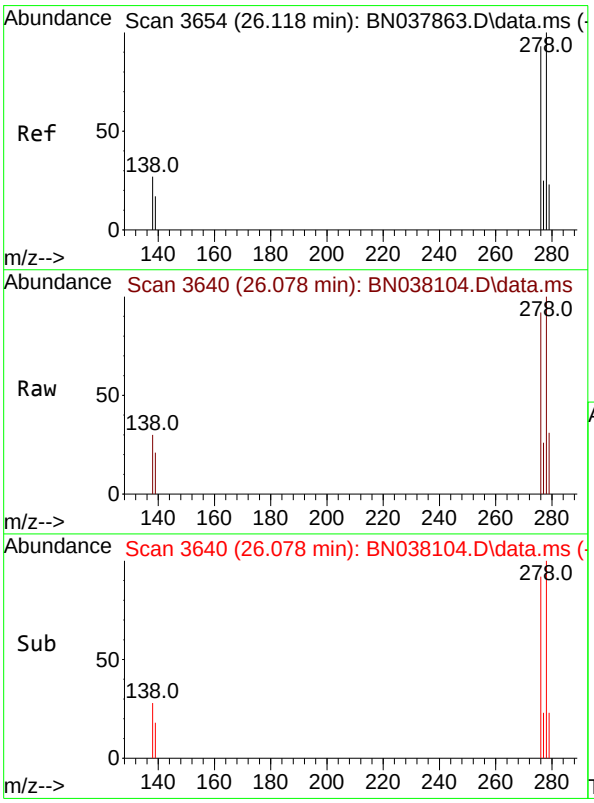
#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 23.598 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:252 Resp: 14317

Ion	Ratio	Lower	Upper
252	100		
253	31.0	20.6	30.8#
125	29.2	16.7	25.1#

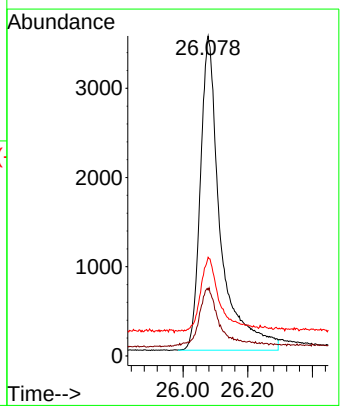


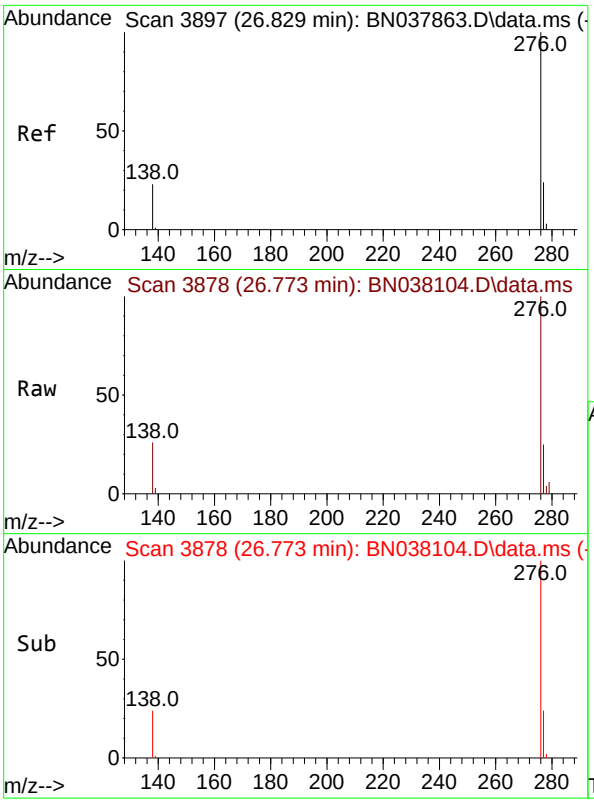


#40
Dibenzo(a,h)anthracene
Concen: 0.375 ng
RT: 26.078 min Scan# 3640
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:278 Resp: 15131

Ion	Ratio	Lower	Upper
278	100		
139	20.6	15.4	23.2
279	30.9	20.8	31.2





#41
Benzo(g,h,i)perylene
Concen: 0.406 ng
RT: 26.773 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Tgt Ion:276 Resp: 17222

Ion	Ratio	Lower	Upper
276	100		
277	25.5	20.2	30.4
138	25.8	19.8	29.8