Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111025\
Data File : BN038174.D
Acq On : 10 Nov 2025 10:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 10 10:38:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration

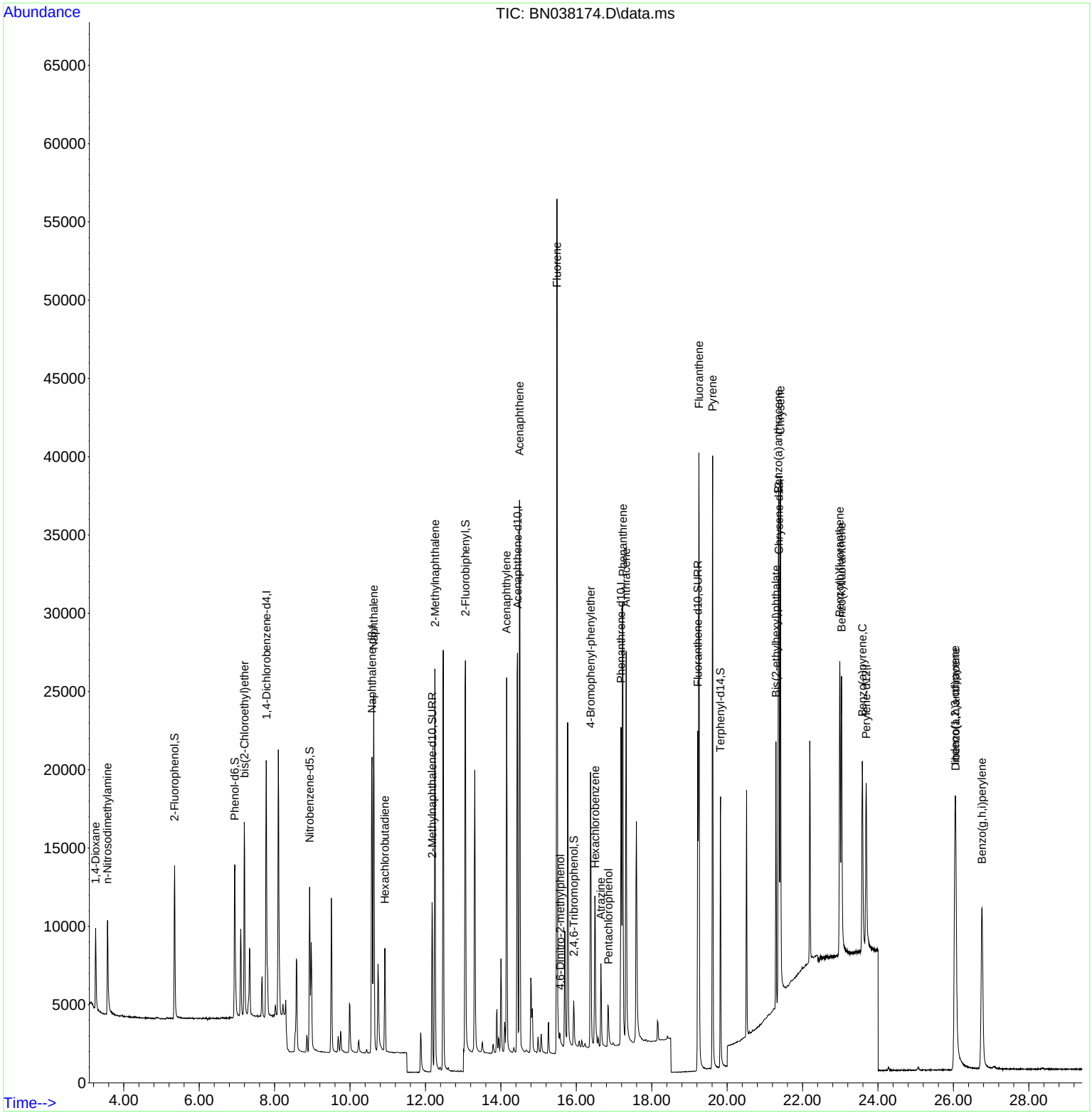
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.782	152	8757	0.400	ng		0.00
7) Naphthalene-d8	10.584	136	27774	0.400	ng		0.01
13) Acenaphthene-d10	14.441	164	15906	0.400	ng		0.01
19) Phenanthrene-d10	17.186	188	29029	0.400	ng		0.00
29) Chrysene-d12	21.375	240	18717	0.400	ng		0.00
35) Perylene-d12	23.689	264	15819	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	8505	0.412	ng		0.00
5) Phenol-d6	6.944	99	10238	0.407	ng		0.00
8) Nitrobenzene-d5	8.929	82	8863	0.395	ng		0.00
11) 2-Methylnaphthalene-d10	12.177	152	15571	0.393	ng		0.00
14) 2,4,6-Tribromophenol	15.932	330	1905	0.291	ng		0.00
15) 2-Fluorobiphenyl	13.062	172	24388	0.383	ng		0.01
27) Fluoranthene-d10	19.225	212	26616	0.364	ng		0.00
31) Terphenyl-d14	19.824	244	17932	0.441	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.254	88	3538	0.391	ng		99
3) n-Nitrosodimethylamine	3.564	42	4537	0.390	ng	#	96
6) bis(2-Chloroethyl)ether	7.197	93	9781	0.396	ng		99
9) Naphthalene	10.626	128	29824	0.390	ng		100
10) Hexachlorobutadiene	10.925	225	5061	0.392	ng	#	98
12) 2-Methylnaphthalene	12.253	142	19854	0.389	ng		100
16) Acenaphthylene	14.152	152	26970	0.374	ng		99
17) Acenaphthene	14.495	154	18777	0.373	ng		98
18) Fluorene	15.489	166	24441	0.370	ng		99
20) 4,6-Dinitro-2-methylph...	15.572	198	645	0.300	ng	#	65
21) 4-Bromophenyl-phenylether	16.379	248	7432	0.391	ng		96
22) Hexachlorobenzene	16.503	284	8714	0.403	ng		99
23) Atrazine	16.652	200	4740	0.340	ng		96
24) Pentachlorophenol	16.851	266	1924	0.206	ng		98
25) Phenanthrene	17.235	178	35218	0.382	ng		100
26) Anthracene	17.322	178	29633	0.368	ng		100
28) Fluoranthene	19.253	202	36754	0.357	ng		100
30) Pyrene	19.615	202	36140	0.428	ng		100
32) Benzo(a)anthracene	21.358	228	24400	0.365	ng		99
33) Chrysene	21.411	228	28858	0.398	ng		99
34) Bis(2-ethylhexyl)phtha...	21.295	149	14539	0.413	ng		100
36) Indeno(1,2,3-cd)pyrene	26.042	276	26669	0.410	ng		98
37) Benzo(b)fluoranthene	22.987	252	25099	0.371	ng		97
38) Benzo(k)fluoranthene	23.034	252	26388	0.388	ng		99
39) Benzo(a)pyrene	23.587	252	20416	0.377	ng		97
40) Dibenzo(a,h)anthracene	26.060	278	21204	0.424	ng		98
41) Benzo(g,h,i)perylene	26.759	276	24133	0.423	ng		99

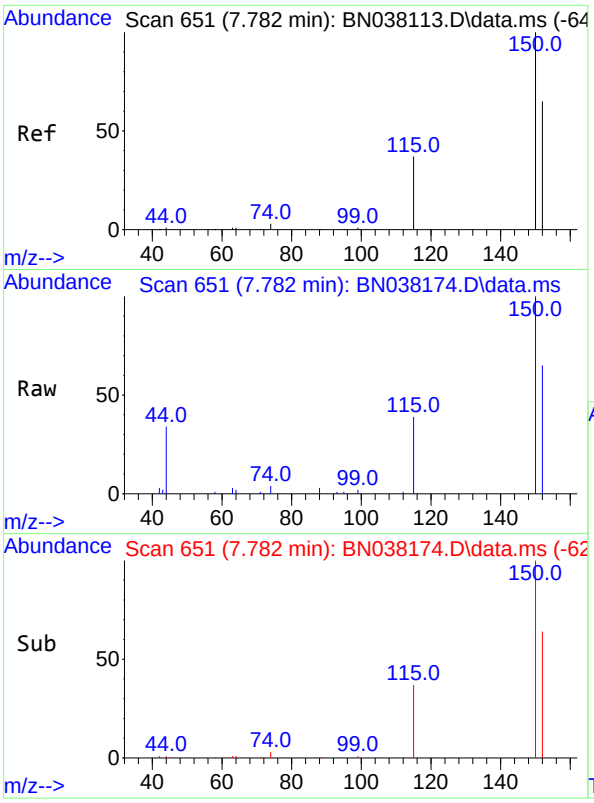
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111025\
Data File : BN038174.D
Acq On : 10 Nov 2025 10:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 10 10:38:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration



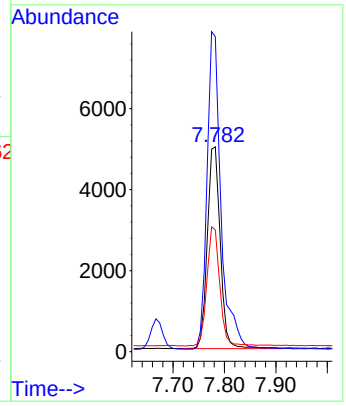


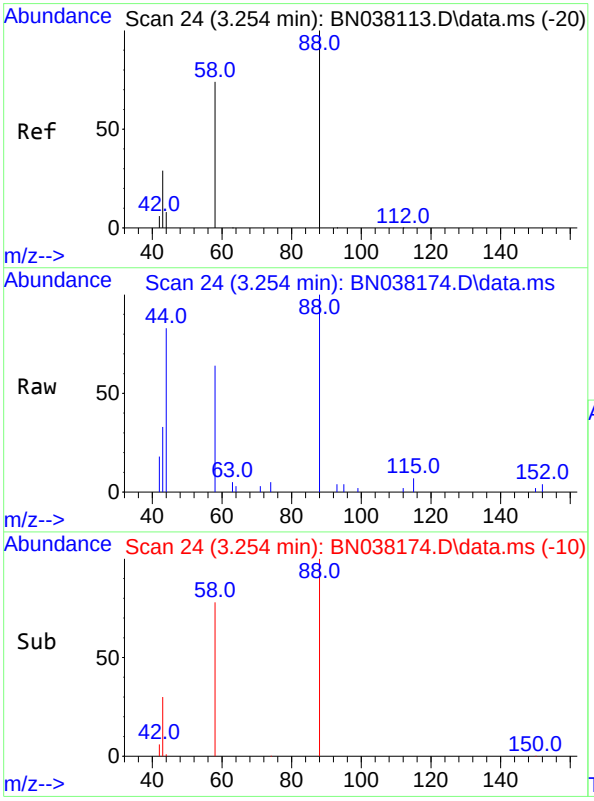
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.782 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 8757

Ion	Ratio	Lower	Upper
152	100		
150	153.7	122.3	183.5
115	59.4	47.4	71.0

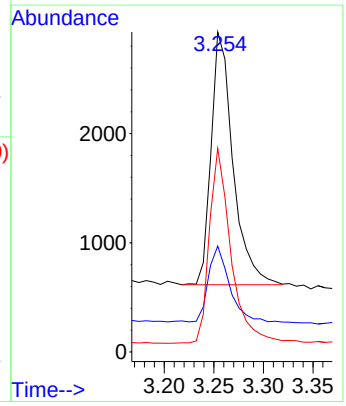


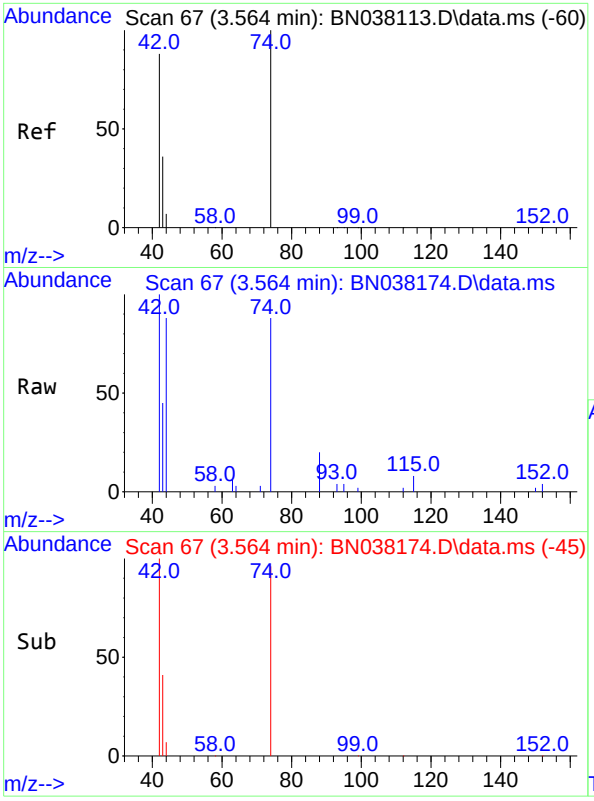


#2
1,4-Dioxane
Concen: 0.391 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion: 88 Resp: 3538

Ion	Ratio	Lower	Upper
88	100		
43	29.2	24.3	36.5
58	76.1	60.4	90.6



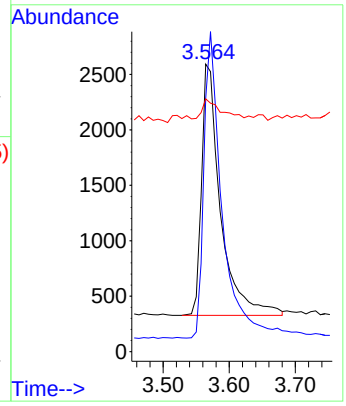


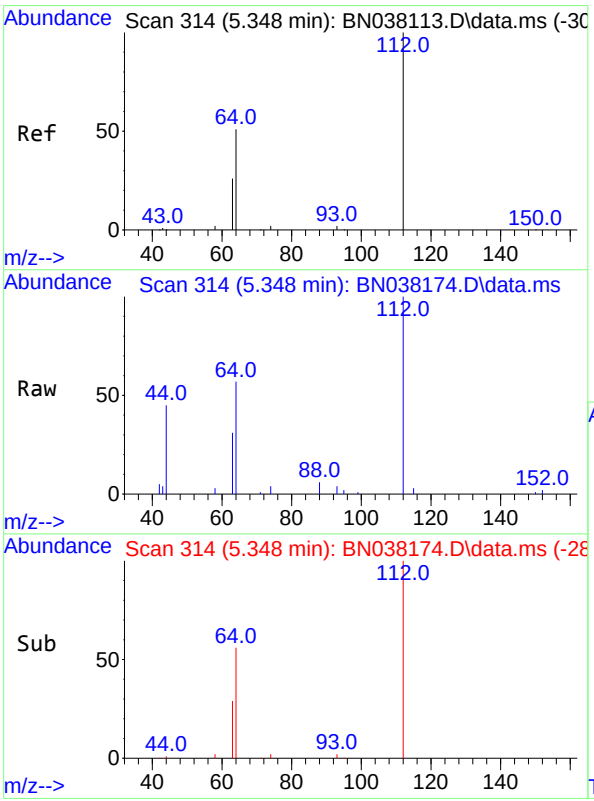
#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.564 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 4537

Ion	Ratio	Lower	Upper
42	100		
74	116.9	96.8	145.2
44	8.4	5.3	7.9#

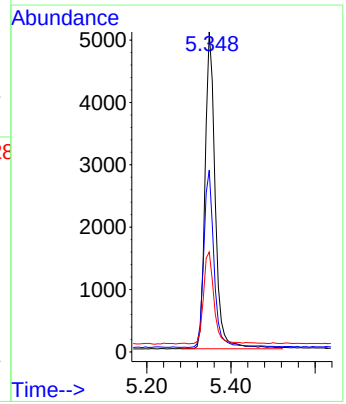


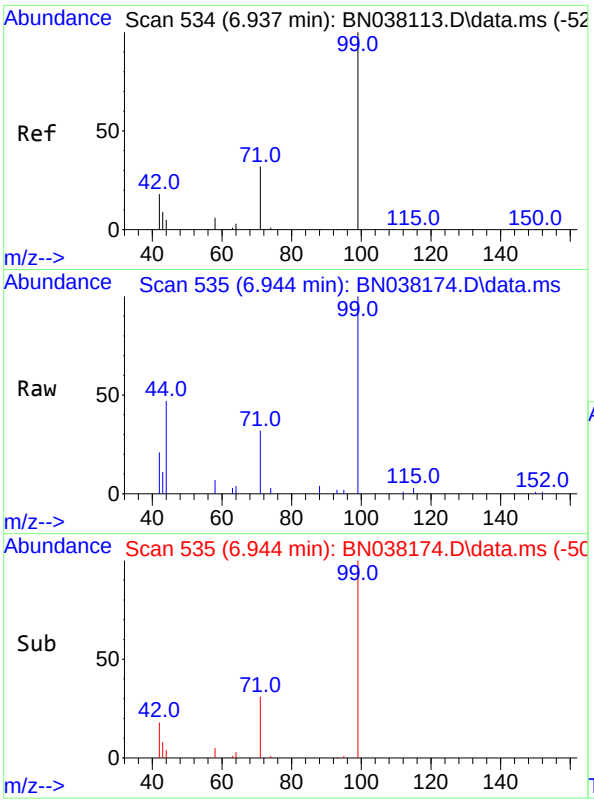


#4
2-Fluorophenol
Concen: 0.412 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:112 Resp: 8505

Ion	Ratio	Lower	Upper
112	100		
64	55.9	45.4	68.0
63	29.5	23.2	34.8



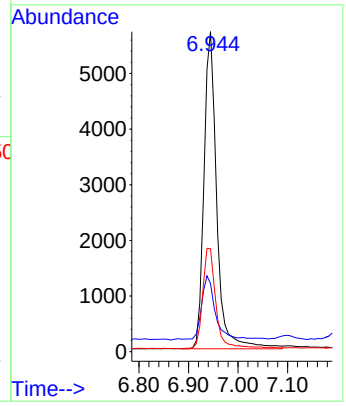


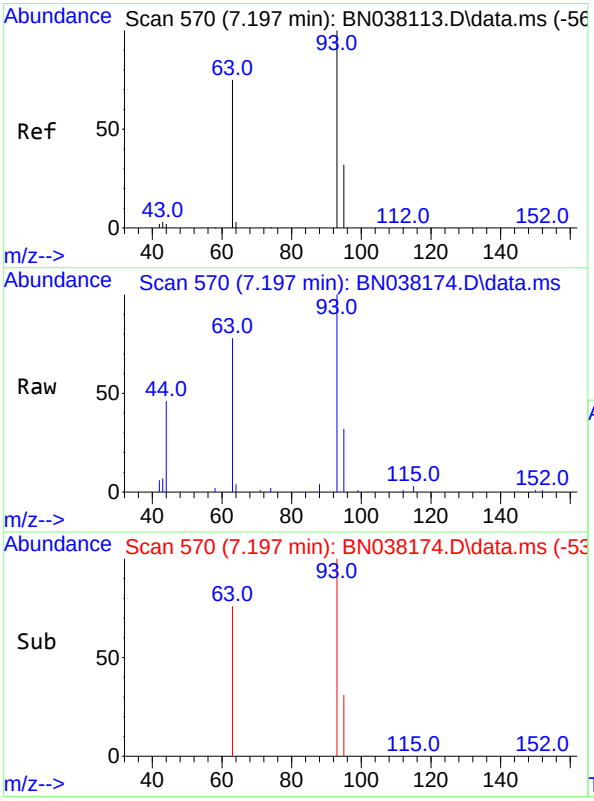
#5
Phenol-d6
Concen: 0.407 ng
RT: 6.944 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 10238

Ion	Ratio	Lower	Upper
99	100		
42	21.2	16.6	24.8
71	33.1	25.4	38.2

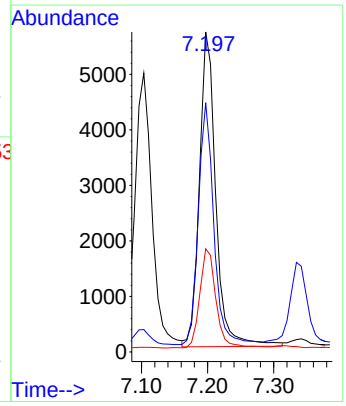


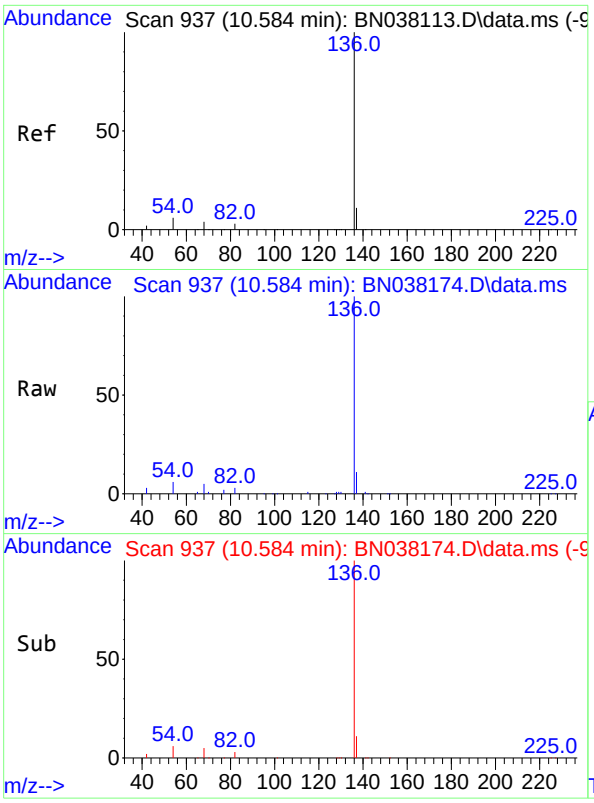


#6
bis(2-Chloroethyl)ether
Concen: 0.396 ng
RT: 7.197 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion: 93 Resp: 9781

Ion	Ratio	Lower	Upper
93	100		
63	73.1	59.3	88.9
95	31.3	25.2	37.8



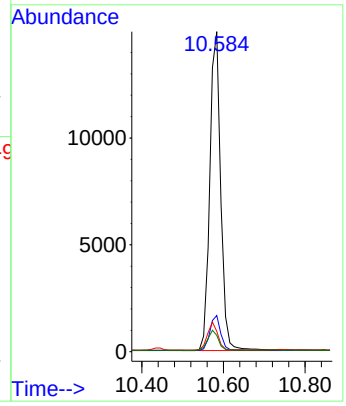


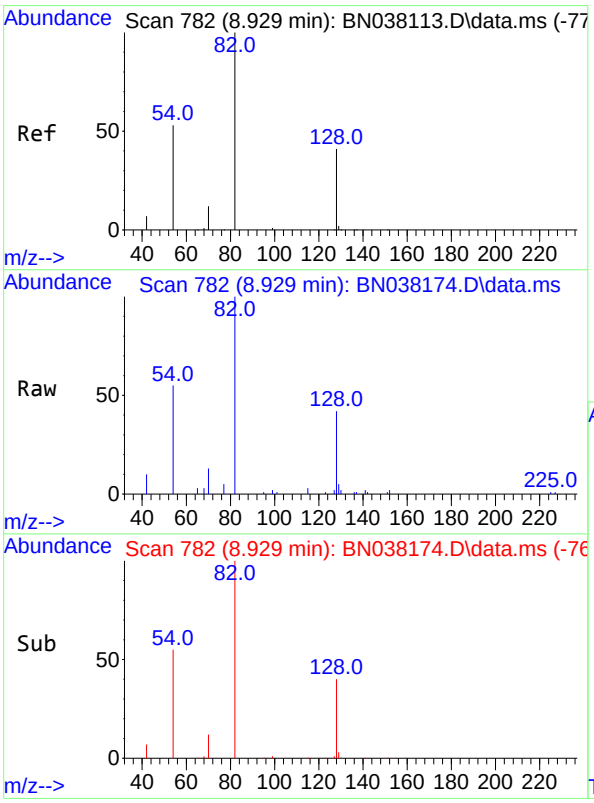
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 27774

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.3	5.2	7.8
68	5.1	4.1	6.1

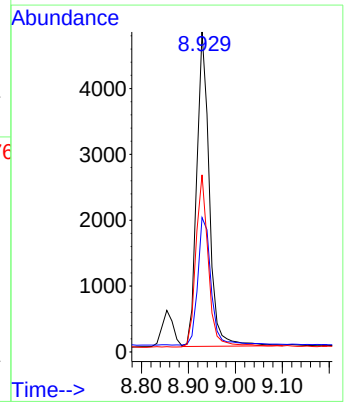


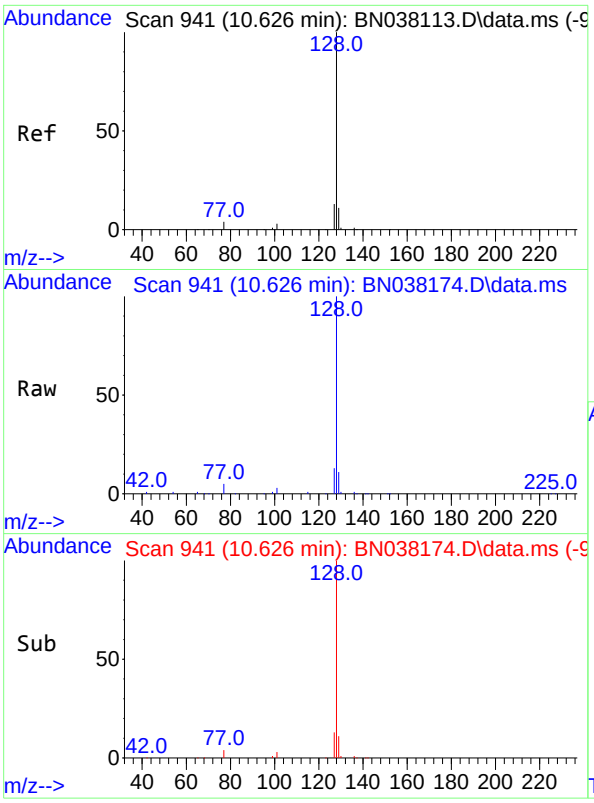


#8
Nitrobenzene-d5
Concen: 0.395 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion: 82 Resp: 8863

Ion	Ratio	Lower	Upper
82	100		
128	42.0	34.1	51.1
54	55.4	43.5	65.3



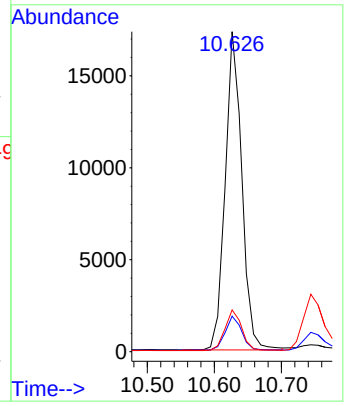


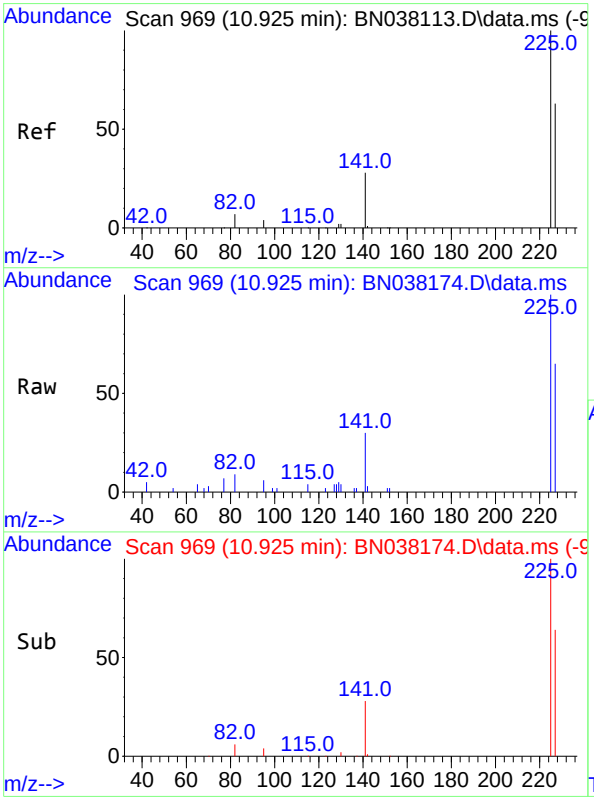
#9
Naphthalene
Concen: 0.390 ng
RT: 10.626 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 29824

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.1	13.7
127	13.0	10.5	15.7

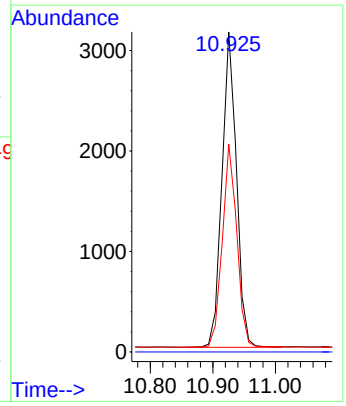


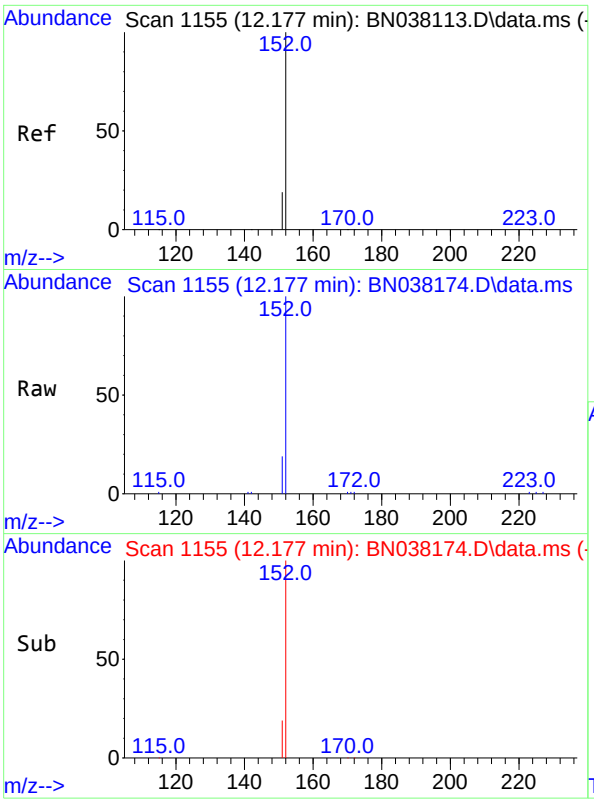


#10
Hexachlorobutadiene
Concen: 0.392 ng
RT: 10.925 min Scan# 969
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:225 Resp: 5061

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	50.3	75.5



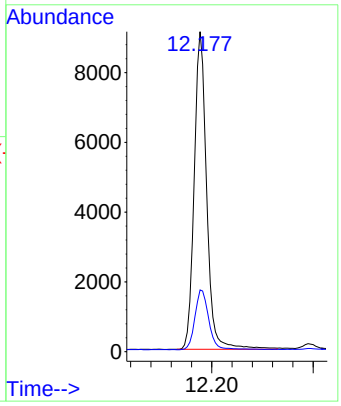


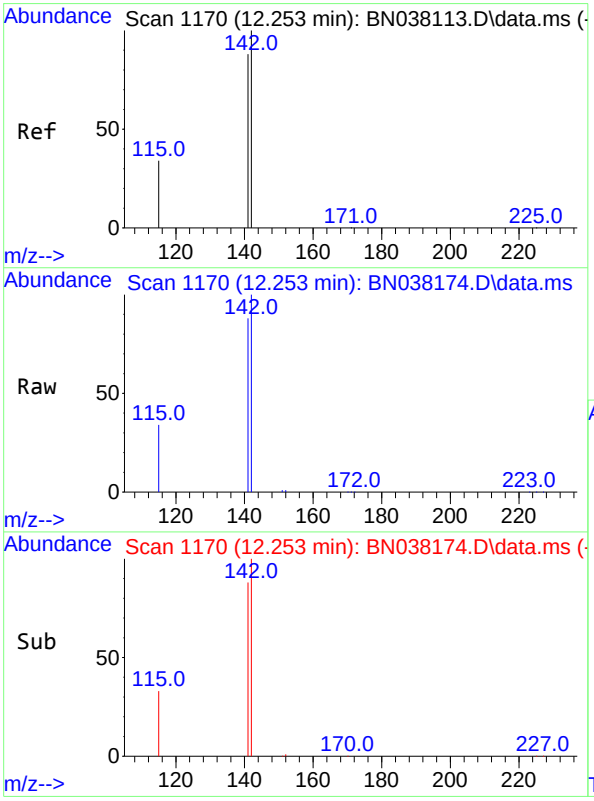
#11
2-Methylnaphthalene-d10
Concen: 0.393 ng
RT: 12.177 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 15571

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.8	25.2

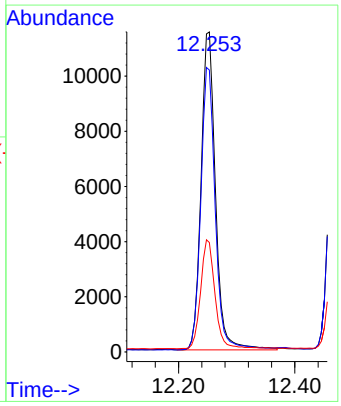


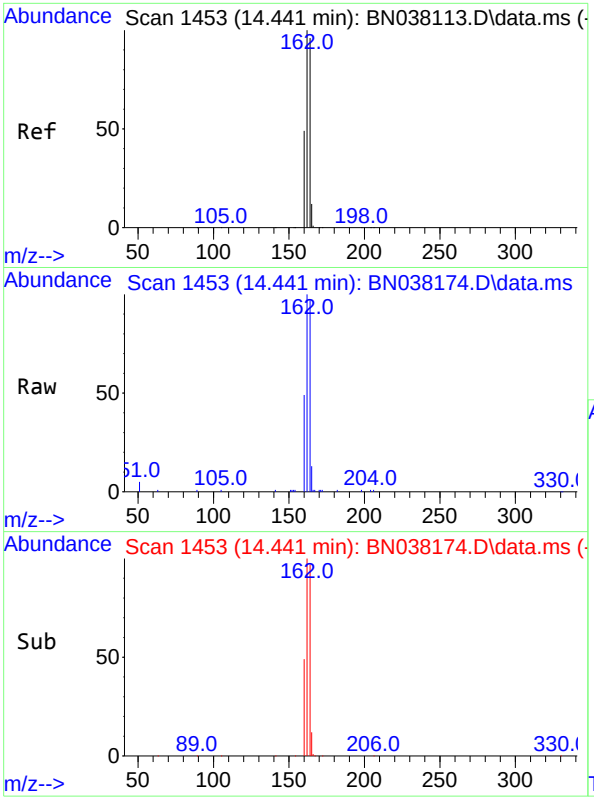


#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.253 min Scan# 1170
Delta R.T. 0.005 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:142 Resp: 19854

Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.3	105.5
115	34.2	27.8	41.6



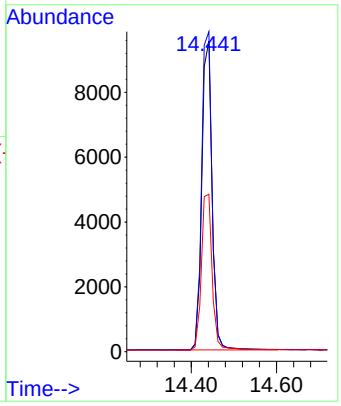


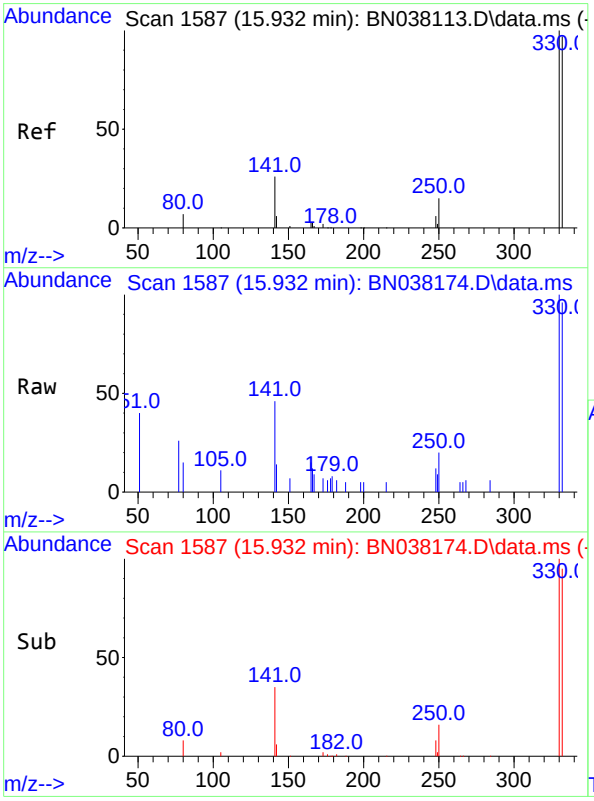
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 15906

Ion	Ratio	Lower	Upper
164	100		
162	103.0	83.0	124.4
160	50.7	40.7	61.1

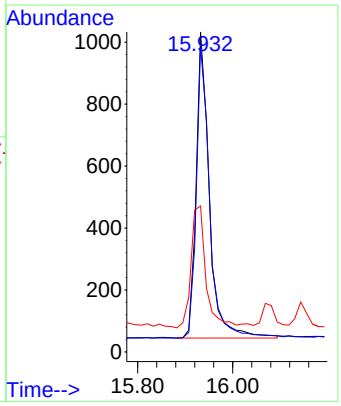


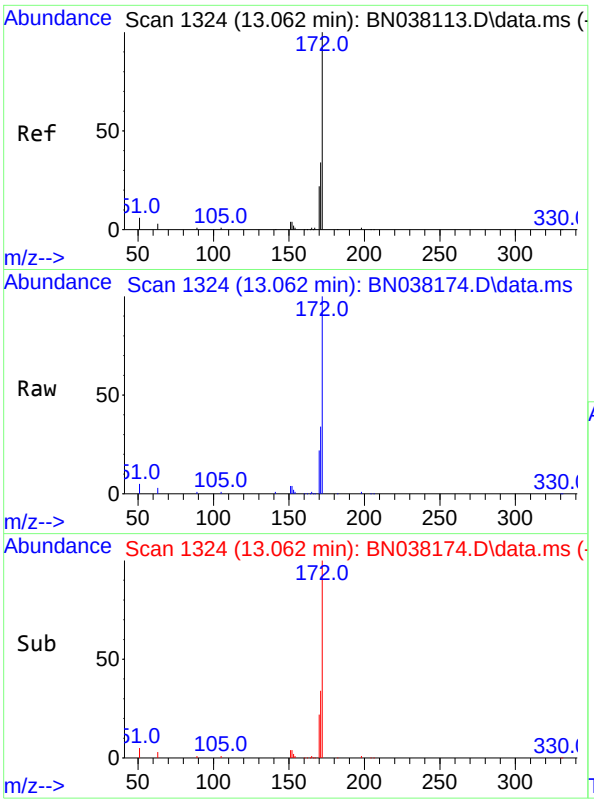


#14
2,4,6-Tribromophenol
Concen: 0.291 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:330 Resp: 1905

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.6	114.8
141	45.1	34.1	51.1



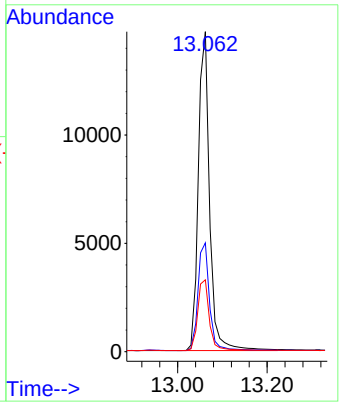


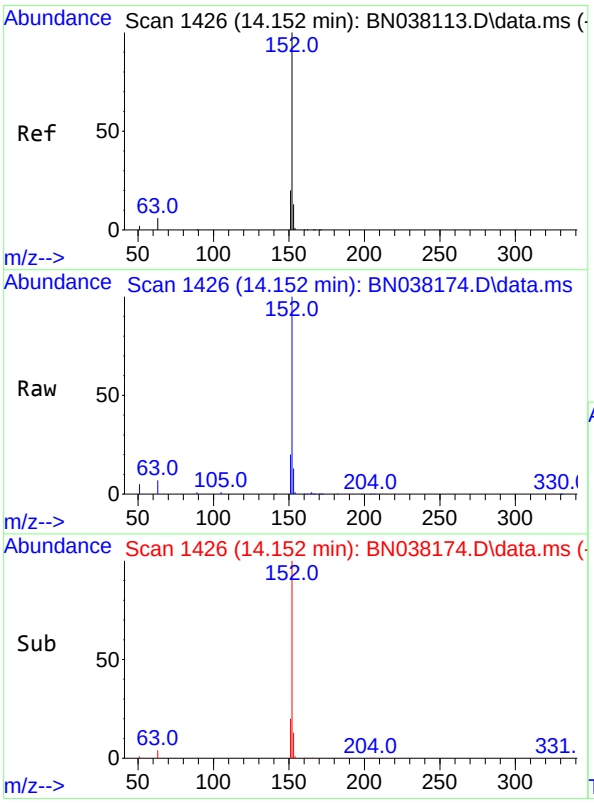
#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 13.062 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 24388

Ion	Ratio	Lower	Upper
172	100		
171	34.0	27.8	41.6
170	22.4	18.1	27.1

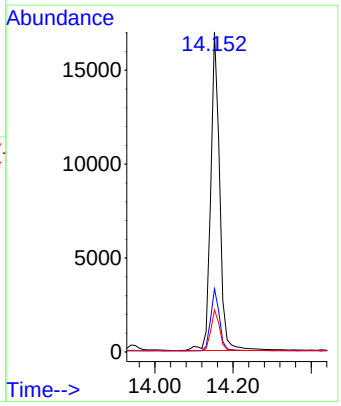


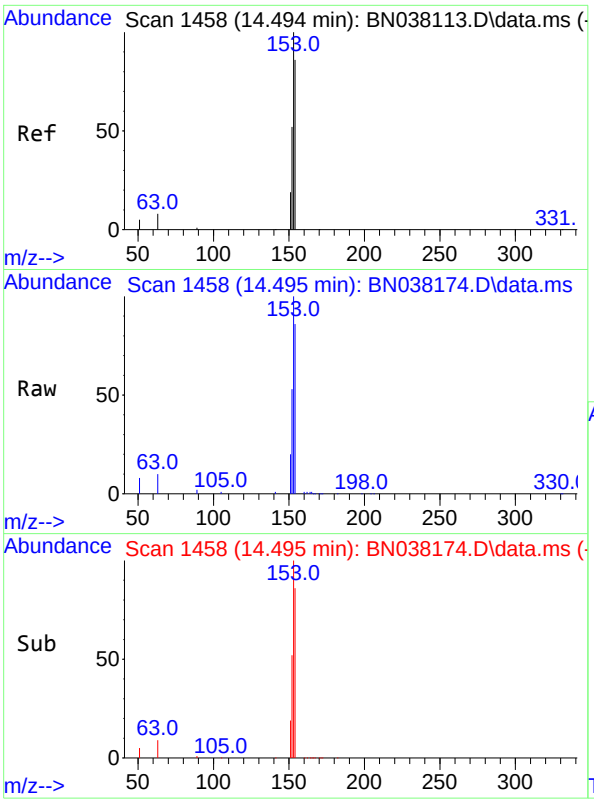


#16
Acenaphthylene
Concen: 0.374 ng
RT: 14.152 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:152 Resp: 26970

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.8	23.8
153	12.9	10.2	15.2



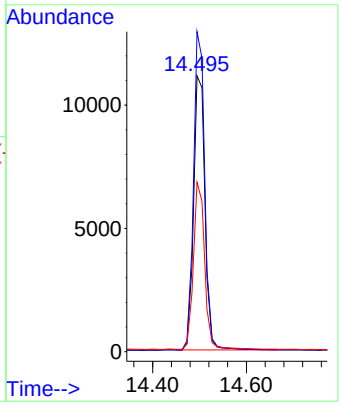


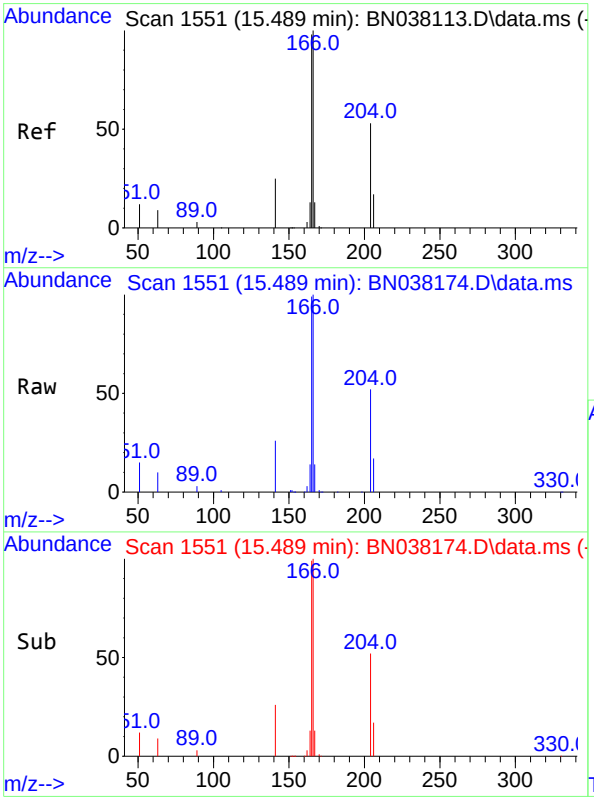
#17
Acenaphthene
Concen: 0.373 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 18777

Ion	Ratio	Lower	Upper
154	100		
153	114.6	90.0	135.0
152	60.3	47.3	70.9

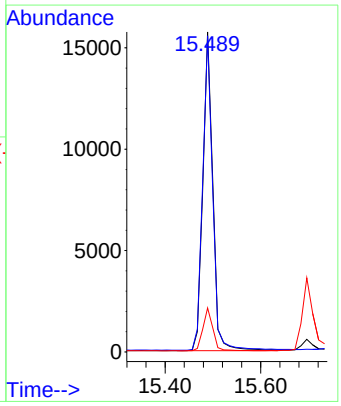


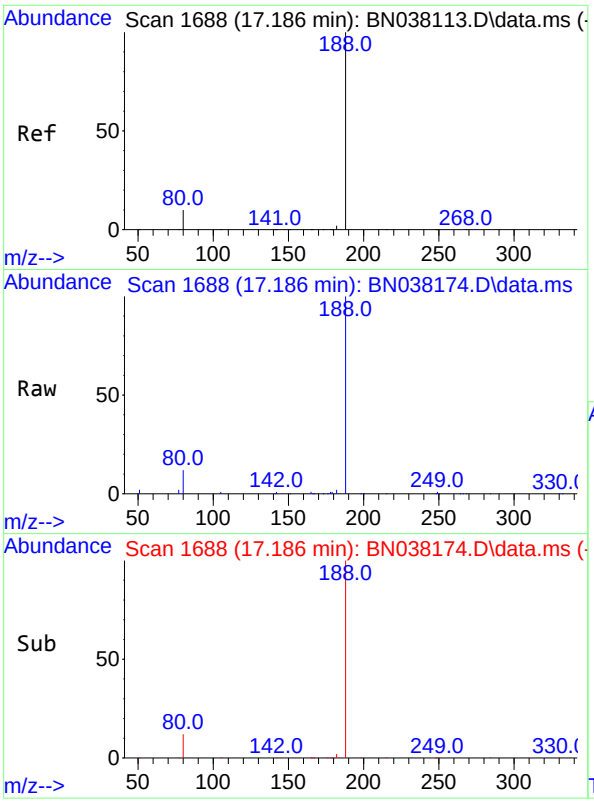


#18
Fluorene
Concen: 0.370 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:166 Resp: 24441

Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.0	118.4
167	13.2	10.7	16.1



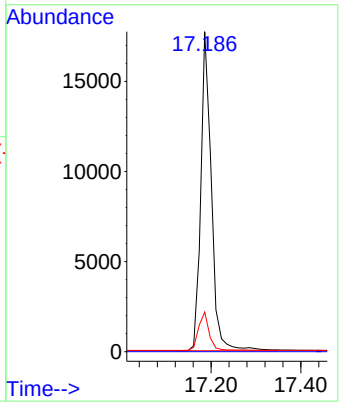


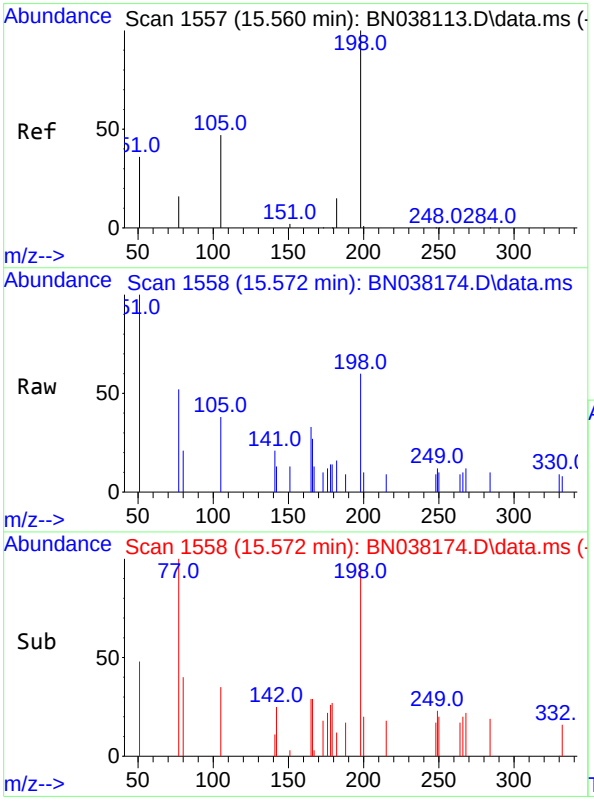
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 29029

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.4	8.6	13.0

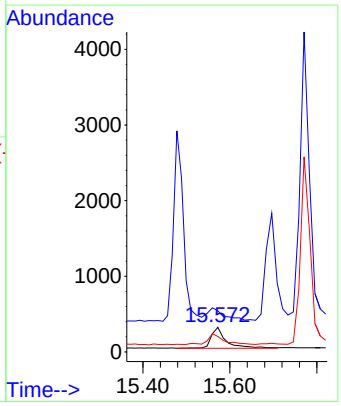


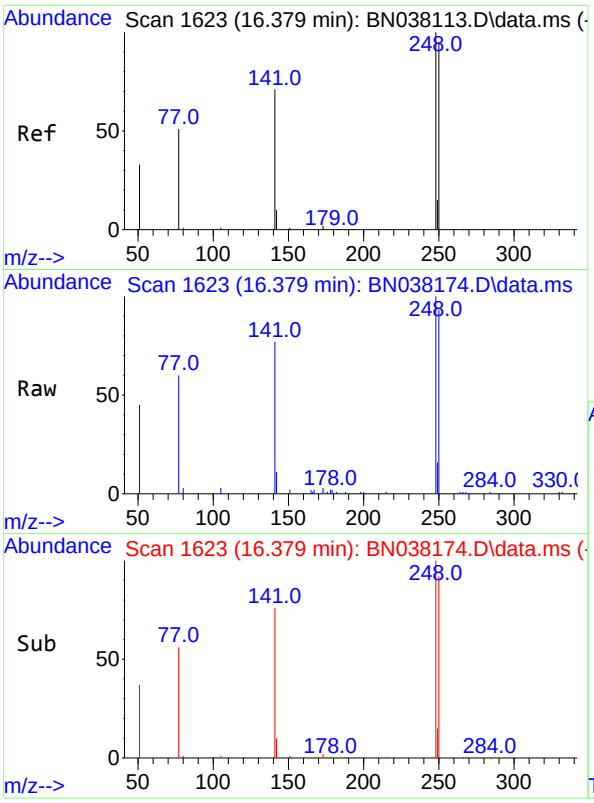


#20
4,6-Dinitro-2-methylphenol
Concen: 0.300 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.012 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:198 Resp: 645

Ion	Ratio	Lower	Upper
198	100		
51	166.9	88.9	133.3#
105	63.2	49.2	73.8



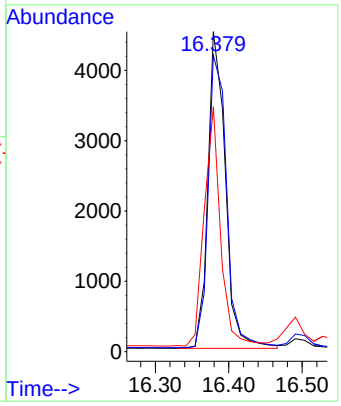


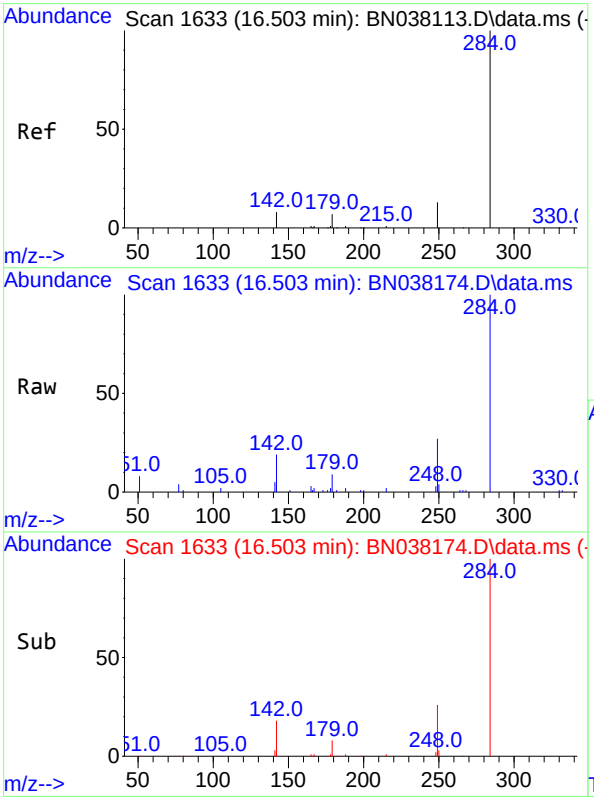
#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 16.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 7432

Ion	Ratio	Lower	Upper
248	100		
250	92.6	76.2	114.2
141	76.6	57.6	86.4

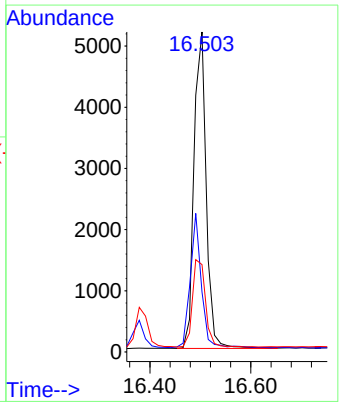


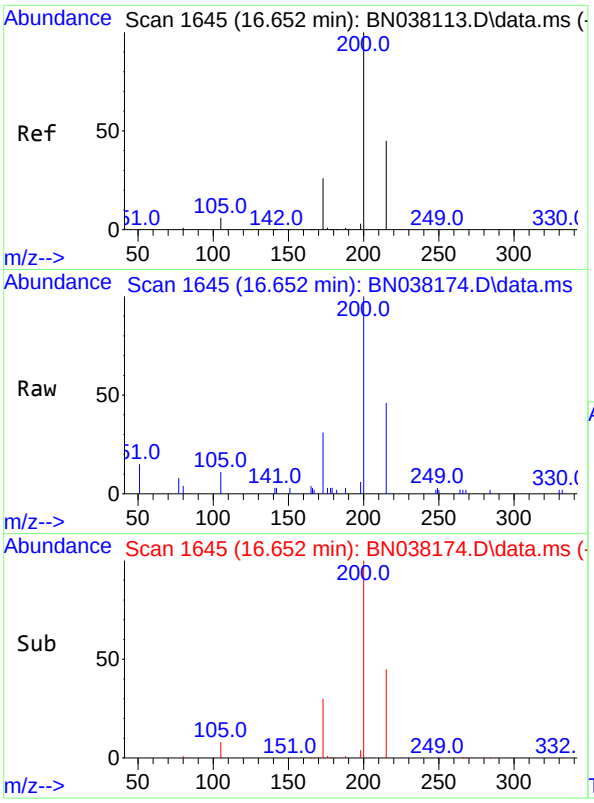


#22
Hexachlorobenzene
Concen: 0.403 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:284 Resp: 8714

Ion	Ratio	Lower	Upper
284	100		
142	38.7	30.5	45.7
249	29.5	23.5	35.3



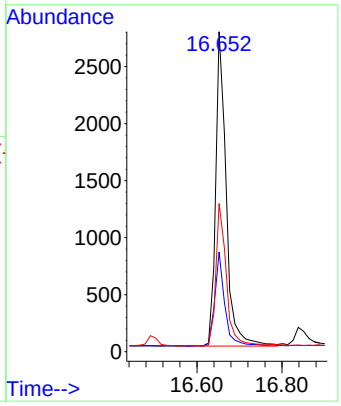


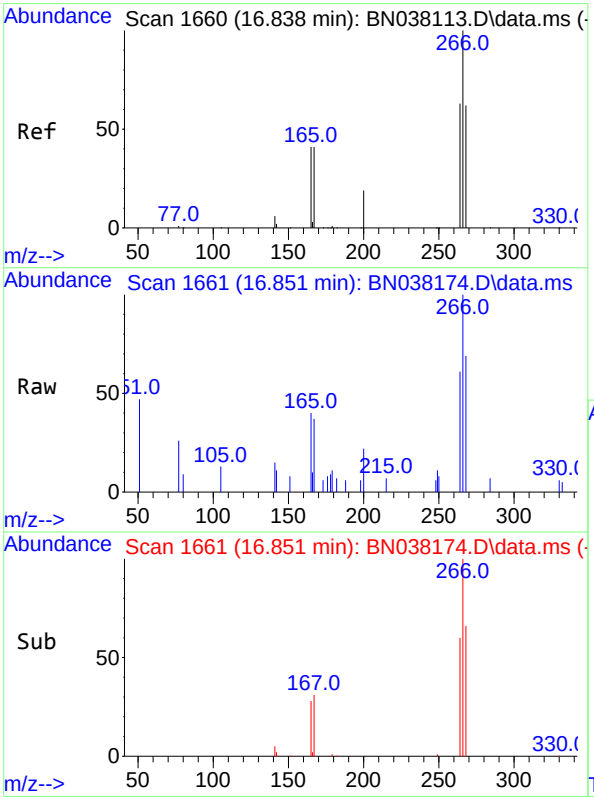
#23
Atrazine
Concen: 0.340 ng
RT: 16.652 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 4740

Ion	Ratio	Lower	Upper
200	100		
173	31.1	21.4	32.2
215	46.3	36.7	55.1

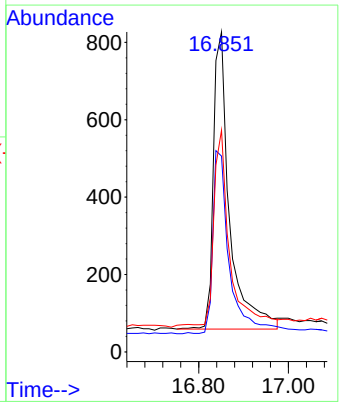


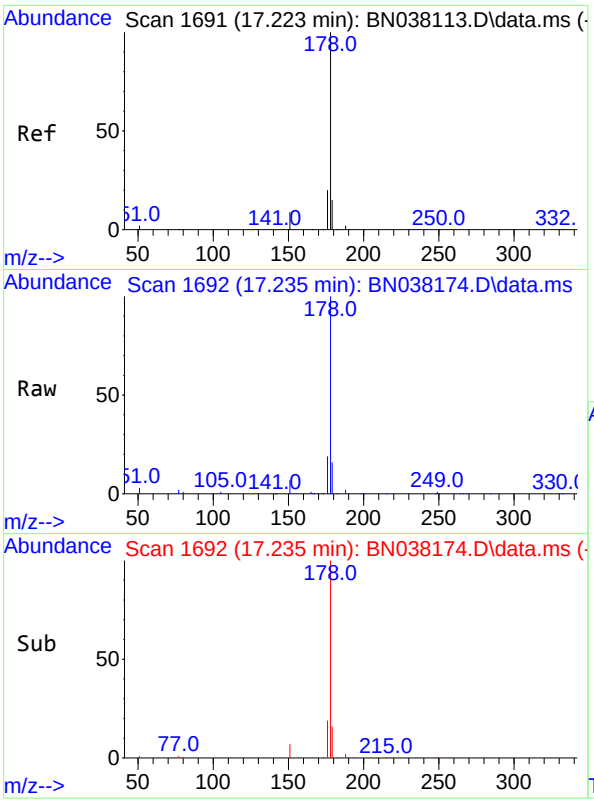


#24
Pentachlorophenol
Concen: 0.206 ng
RT: 16.851 min Scan# 1661
Delta R.T. 0.012 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:266 Resp: 1924

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.3	73.9
268	61.6	50.6	75.8



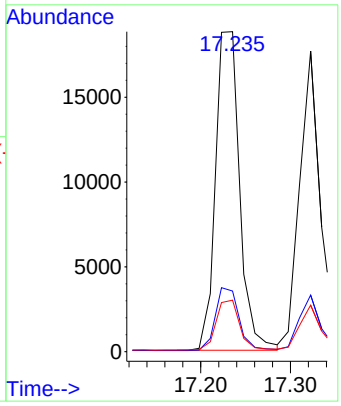


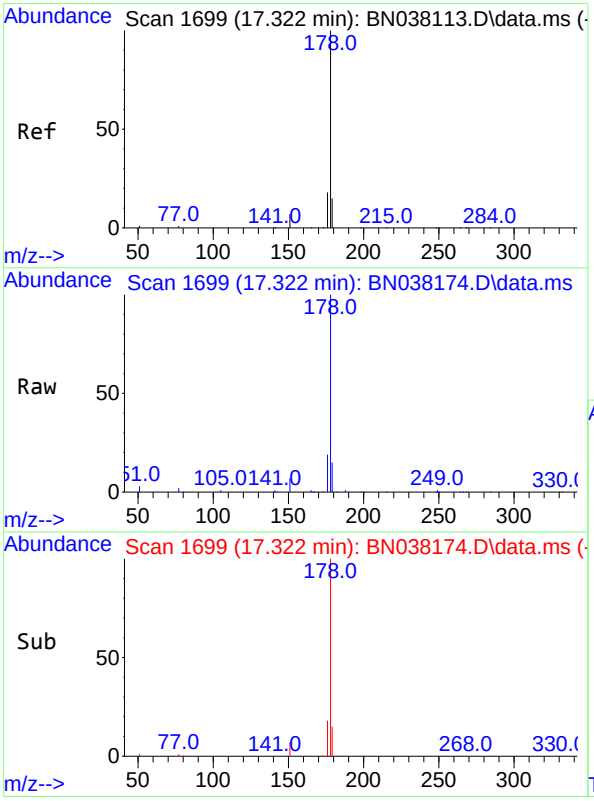
#25
Phenanthrene
Concen: 0.382 ng
RT: 17.235 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 35218

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.5	23.3
179	15.4	12.2	18.4

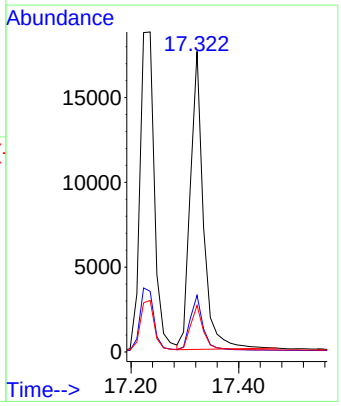


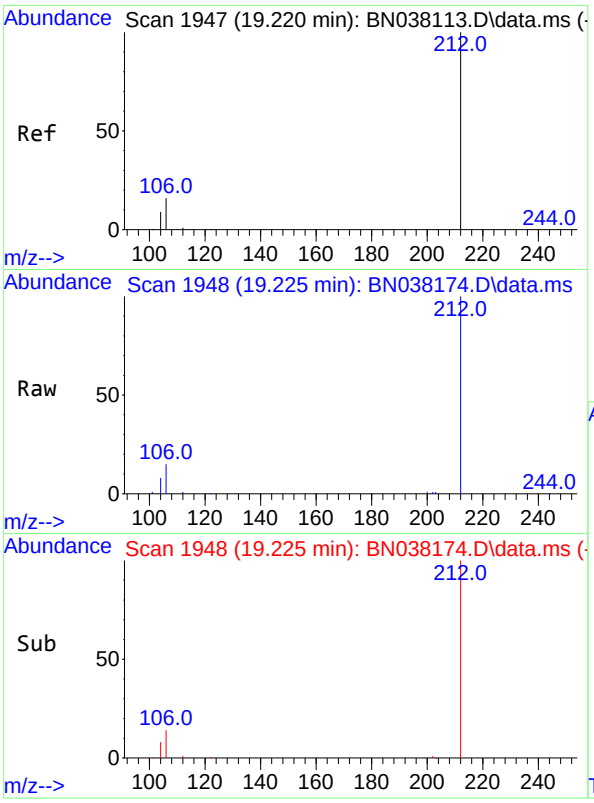


#26
Anthracene
Concen: 0.368 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:178 Resp: 29633

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.1	11.8	17.8



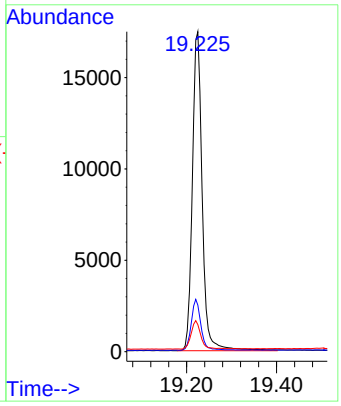


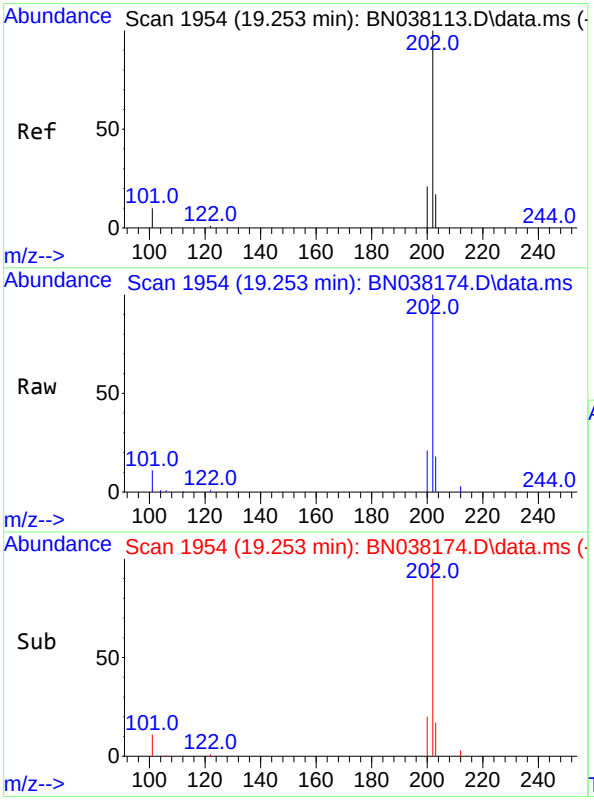
#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 19.225 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 26616

Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.6	19.0
104	8.6	7.1	10.7

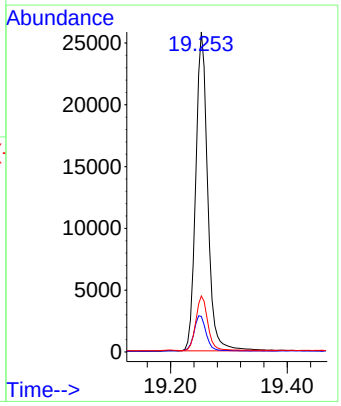


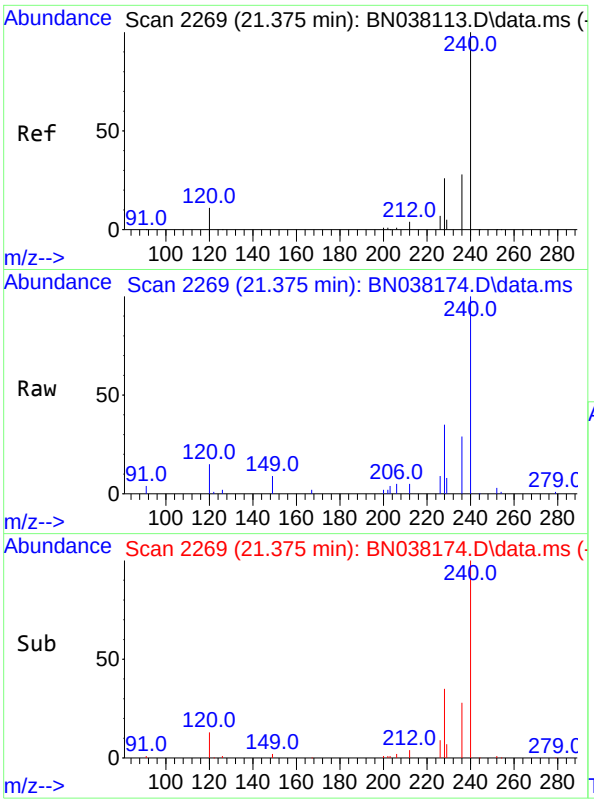


#28
Fluoranthene
Concen: 0.357 ng
RT: 19.253 min Scan# 1954
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:202 Resp: 36754

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.4	14.2
203	17.0	13.4	20.2



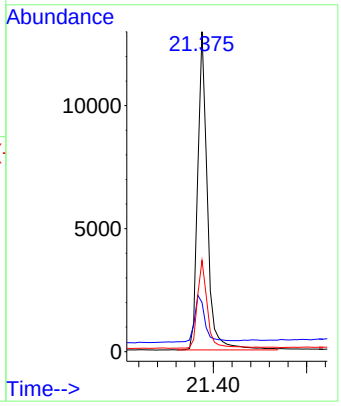


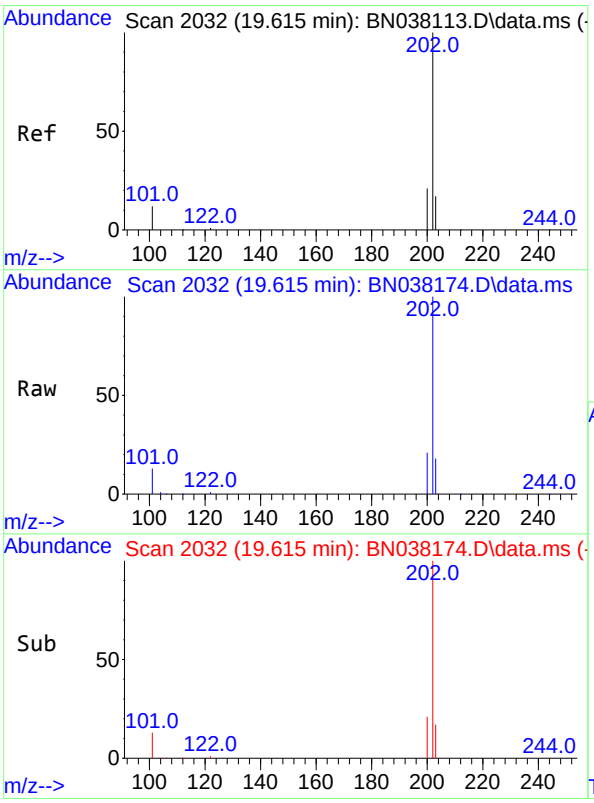
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 18717

Ion	Ratio	Lower	Upper
240	100		
120	15.4	10.7	16.1
236	28.5	23.1	34.7

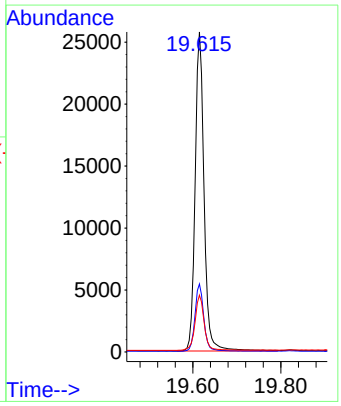


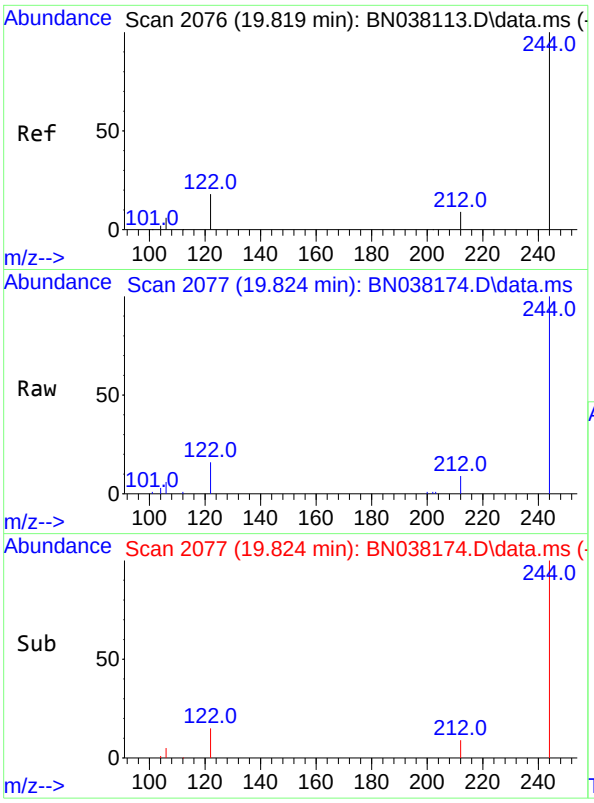


#30
Pyrene
Concen: 0.428 ng
RT: 19.615 min Scan# 2032
Delta R.T. 0.005 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:202 Resp: 36140

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	17.8	14.2	21.2



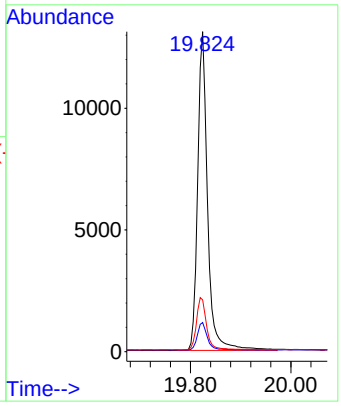


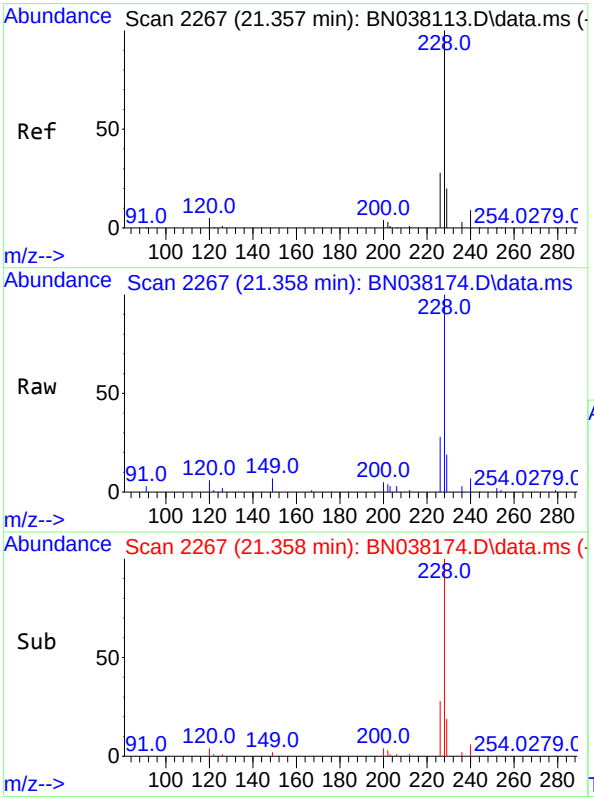
#31
Terphenyl-d14
Concen: 0.441 ng
RT: 19.824 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 17932

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.8	11.6
122	16.2	15.2	22.8

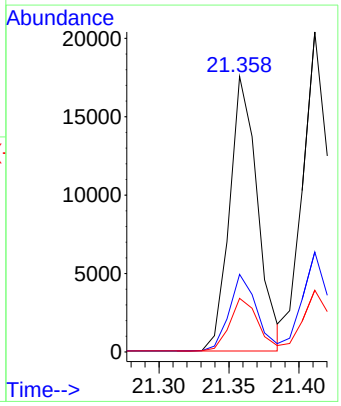


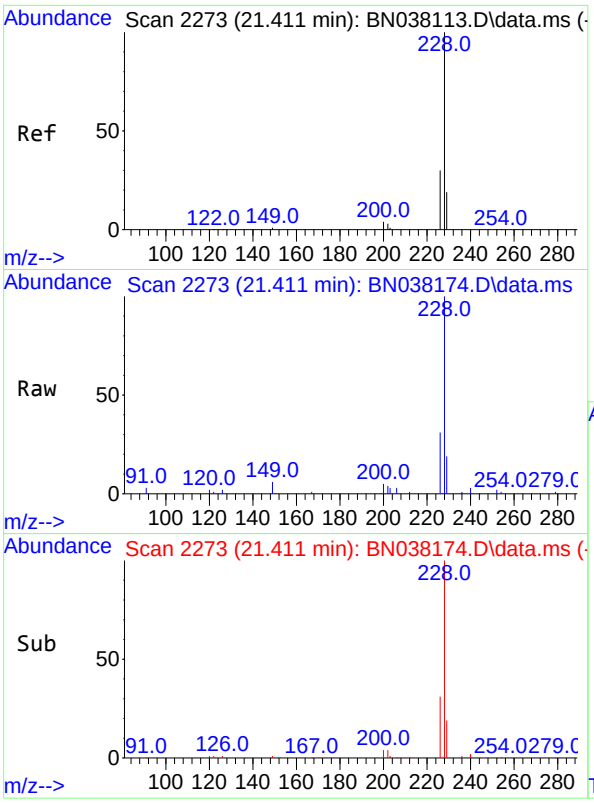


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:228 Resp: 24400

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.2	33.4
229	19.5	15.8	23.8



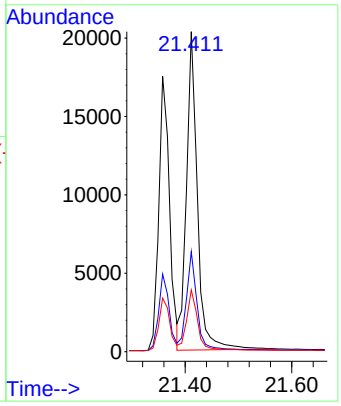


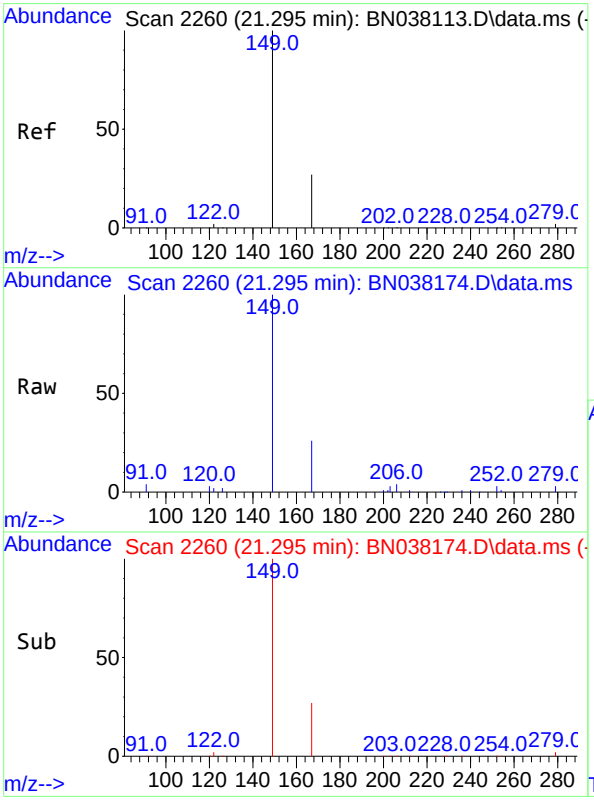
#33
Chrysene
Concen: 0.398 ng
RT: 21.411 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 28858

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.3	36.5
229	19.3	15.7	23.5

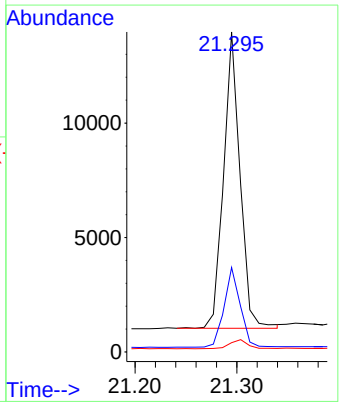


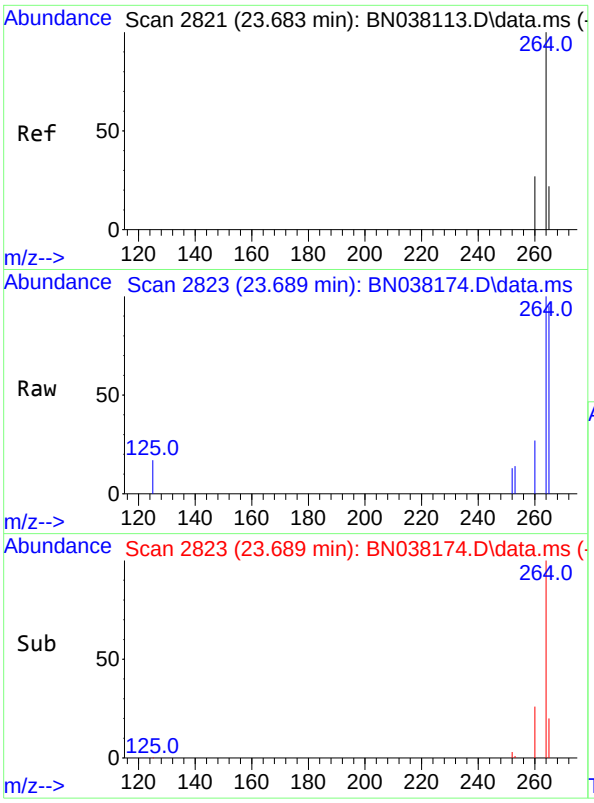


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.413 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:149 Resp: 14539

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.1	31.7
279	3.6	2.9	4.3



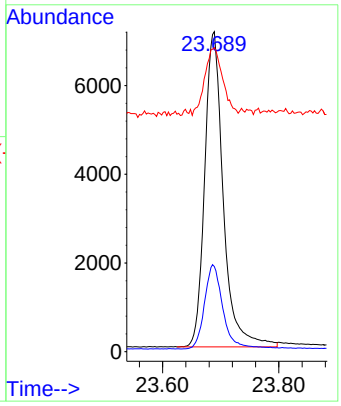


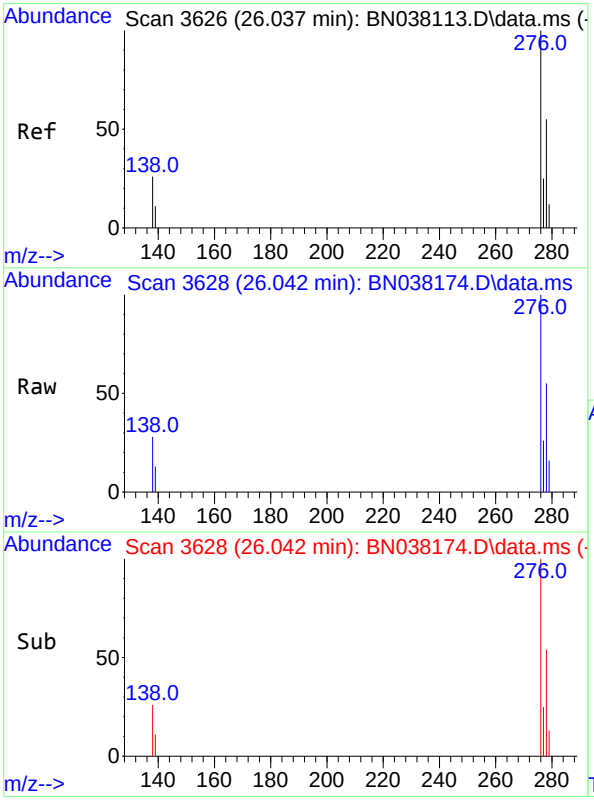
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.689 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 15819

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.8	32.8
265	95.0	68.6	102.8

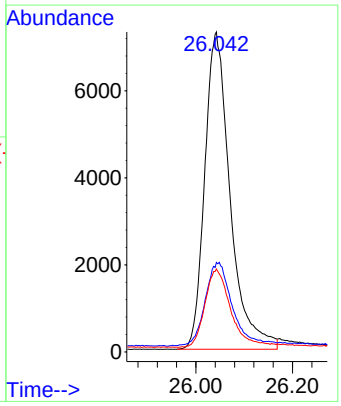


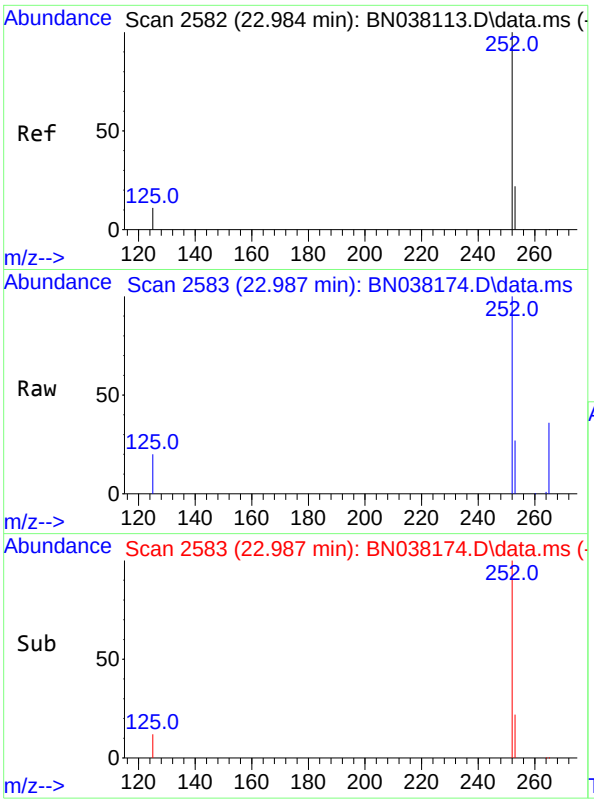


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.410 ng
RT: 26.042 min Scan# 3628
Delta R.T. 0.009 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:276 Resp: 26669

Ion	Ratio	Lower	Upper
276	100		
138	27.4	21.4	32.0
277	25.0	19.2	28.8



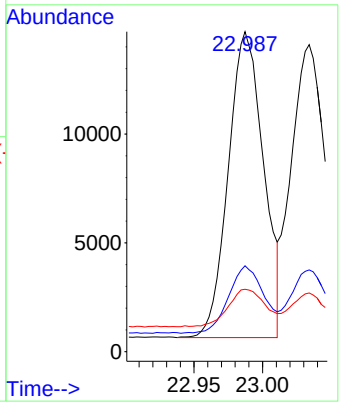


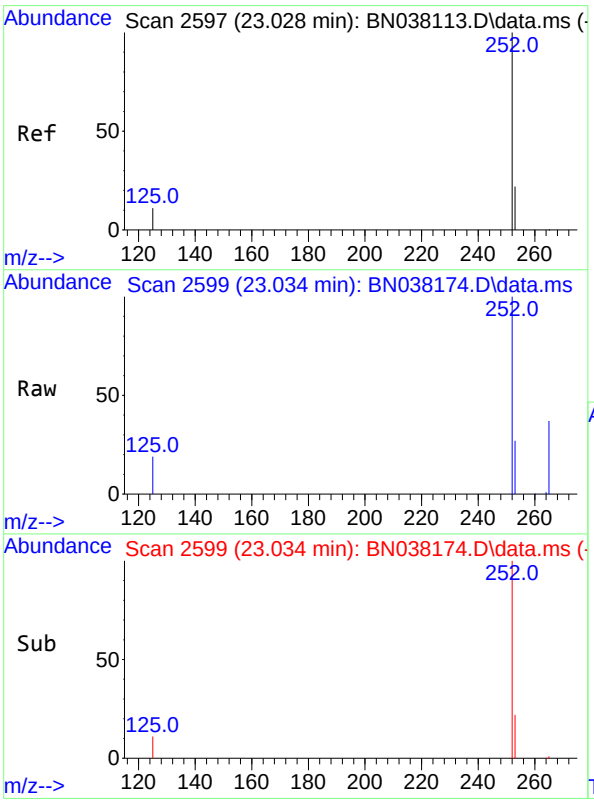
#37
Benzo(b)fluoranthene
Concen: 0.371 ng
RT: 22.987 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 25099

Ion	Ratio	Lower	Upper
252	100		
253	26.9	20.9	31.3
125	19.5	14.1	21.1

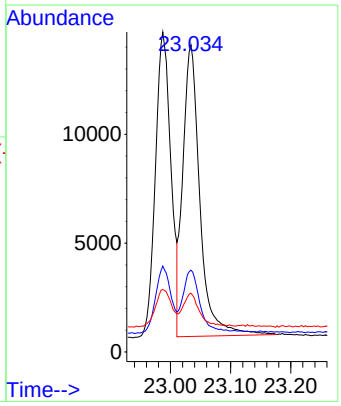


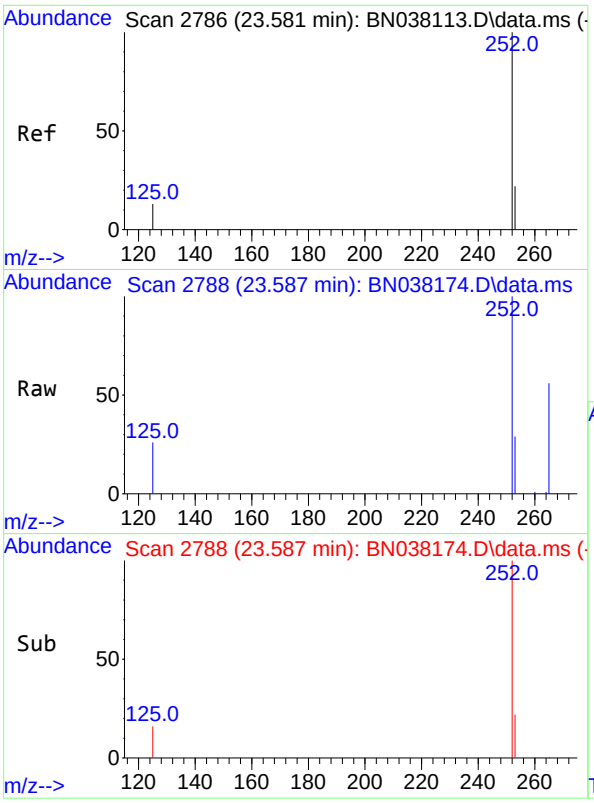


#38
Benzo(k)fluoranthene
Concen: 0.388 ng
RT: 23.034 min Scan# 2599
Delta R.T. 0.006 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:252 Resp: 26388

Ion	Ratio	Lower	Upper
252	100		
253	26.6	21.2	31.8
125	19.1	14.6	22.0



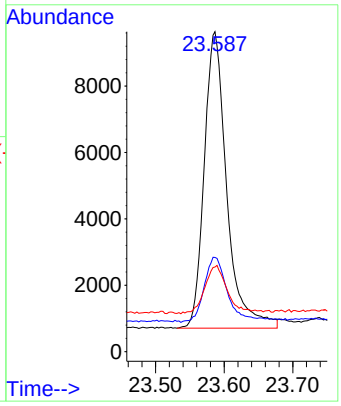


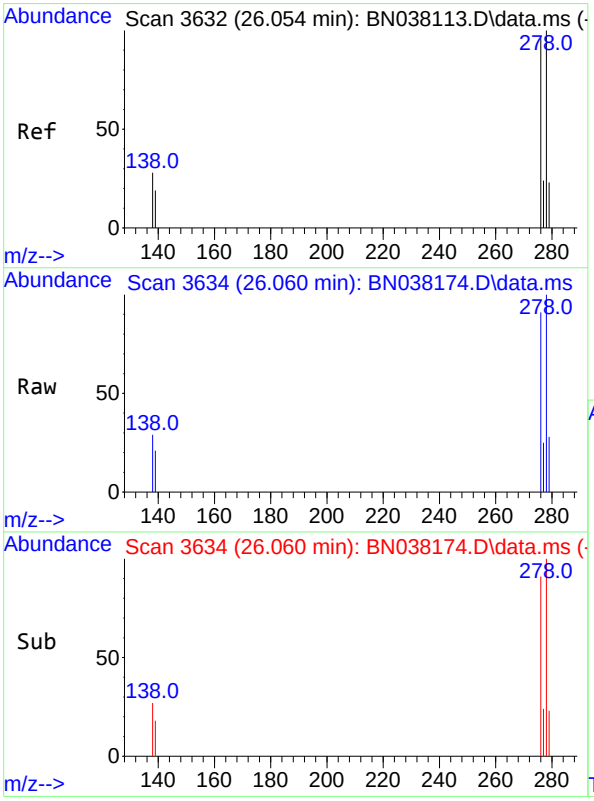
#39
Benzo(a)pyrene
Concen: 0.377 ng
RT: 23.587 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 20416

Ion	Ratio	Lower	Upper
252	100		
253	29.4	23.1	34.7
125	26.4	18.6	28.0

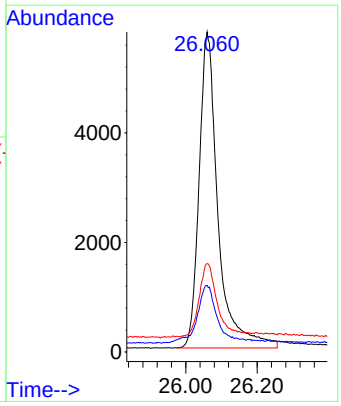


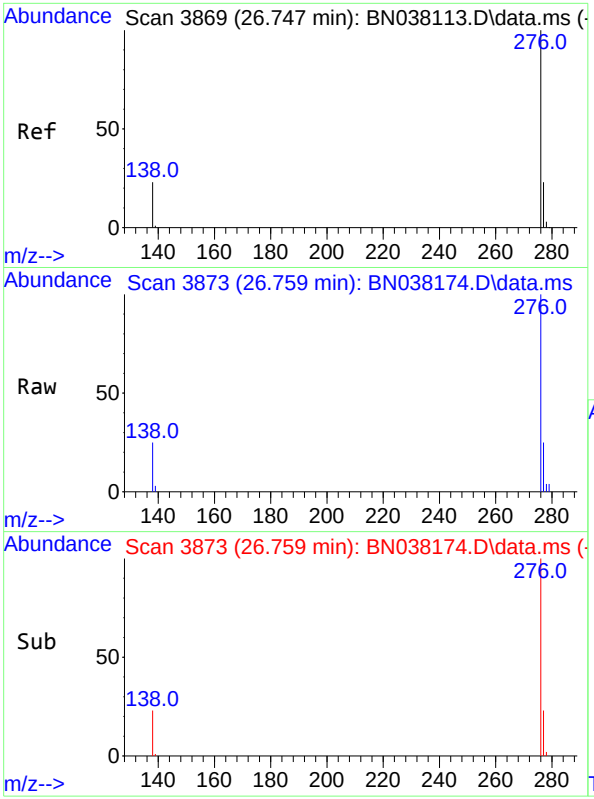


#40
Dibenzo(a,h)anthracene
Concen: 0.424 ng
RT: 26.060 min Scan# 3634
Delta R.T. 0.012 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Tgt Ion:278 Resp: 21204

Ion	Ratio	Lower	Upper
278	100		
139	20.8	17.6	26.4
279	27.6	22.6	33.8





#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 26.759 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN038174.D
Acq: 10 Nov 2025 10:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 24133

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.7	29.5
138	24.8	20.2	30.4