Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035926.D
Acq On : 15 Jan 2025 10:27
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jan 15 11:50:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

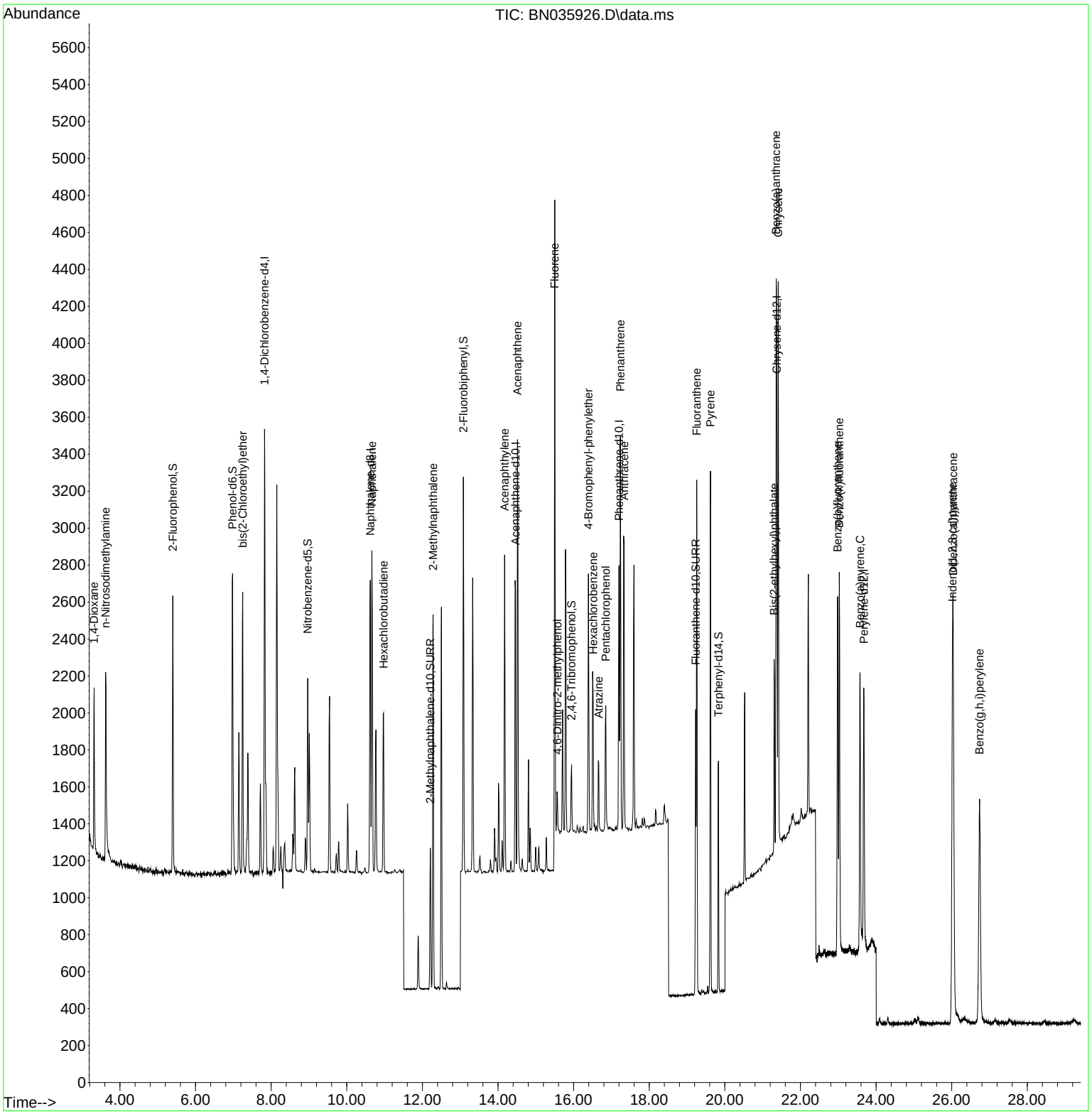
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.824	152	1122	0.400	ng		-0.01
7) Naphthalene-d8	10.622	136	1996	0.400	ng		0.00
13) Acenaphthene-d10	14.463	164	954	0.400	ng		0.00
19) Phenanthrene-d10	17.199	188	1813	0.400	ng		-0.01
29) Chrysene-d12	21.376	240	1614	0.400	ng		0.00
35) Perylene-d12	23.677	264	1998	0.400	ng		-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	5.398	112	1064	0.387	ng		-0.01
5) Phenol-d6	6.979	99	1284	0.376	ng		0.00
8) Nitrobenzene-d5	8.967	82	740	0.468	ng		-0.01
11) 2-Methylnaphthalene-d10	12.208	152	998	0.373	ng		0.00
14) 2,4,6-Tribromophenol	15.945	330	227	0.496	ng		-0.01
15) 2-Fluorobiphenyl	13.084	172	1663	0.397	ng		0.00
27) Fluoranthene-d10	19.230	212	1777	0.395	ng		0.00
31) Terphenyl-d14	19.829	244	1214	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.318	88	474	0.425	ng		95
3) n-Nitrosodimethylamine	3.621	42	933	0.480	ng		91
6) bis(2-Chloroethyl)ether	7.246	93	1004	0.385	ng		98
9) Naphthalene	10.664	128	2169	0.387	ng		99
10) Hexachlorobutadiene	10.974	225	738	0.406	ng	#	99
12) 2-Methylnaphthalene	12.284	142	1300	0.375	ng		97
16) Acenaphthylene	14.174	152	1740	0.387	ng		99
17) Acenaphthene	14.516	154	1185	0.402	ng		95
18) Fluorene	15.500	166	1235	0.381	ng		97
20) 4,6-Dinitro-2-methylph...	15.573	198	204	0.648	ng	#	84
21) 4-Bromophenyl-phenylether	16.392	248	503	0.405	ng		93
22) Hexachlorobenzene	16.516	284	655	0.386	ng		94
23) Atrazine	16.665	200	347	0.416	ng	#	92
24) Pentachlorophenol	16.851	266	389	0.648	ng		99
25) Phenanthrene	17.236	178	2042	0.386	ng		100
26) Anthracene	17.335	178	1902	0.395	ng		98
28) Fluoranthene	19.258	202	2431	0.394	ng		98
30) Pyrene	19.620	202	2489	0.380	ng		99
32) Benzo(a)anthracene	21.358	228	2304	0.405	ng		98
33) Chrysene	21.412	228	2339	0.393	ng		99
34) Bis(2-ethylhexyl)phtha...	21.304	149	979	0.423	ng	#	97
36) Indeno(1,2,3-cd)pyrene	26.019	276	3063	0.389	ng		95
37) Benzo(b)fluoranthene	22.982	252	2535	0.369	ng		98
38) Benzo(k)fluoranthene	23.028	252	2604	0.383	ng		95
39) Benzo(a)pyrene	23.575	252	2244	0.378	ng		96
40) Dibenzo(a,h)anthracene	26.040	278	2458	0.392	ng		97
41) Benzo(g,h,i)perylene	26.736	276	2684	0.383	ng		96

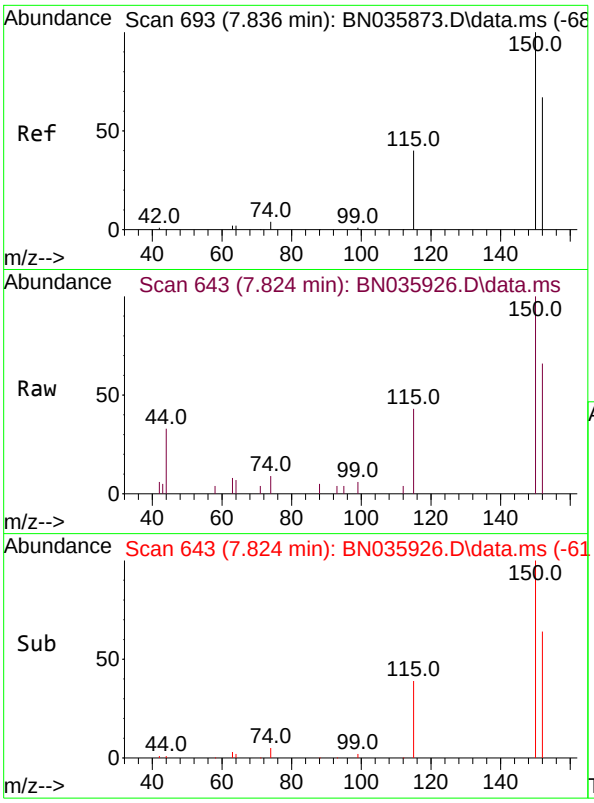
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035926.D
Acq On : 15 Jan 2025 10:27
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jan 15 11:50:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



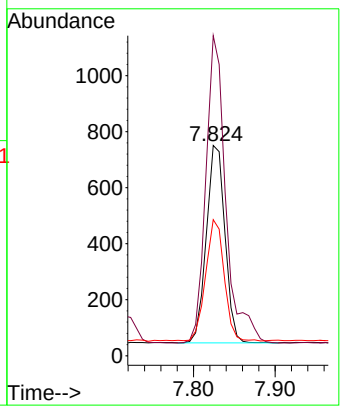


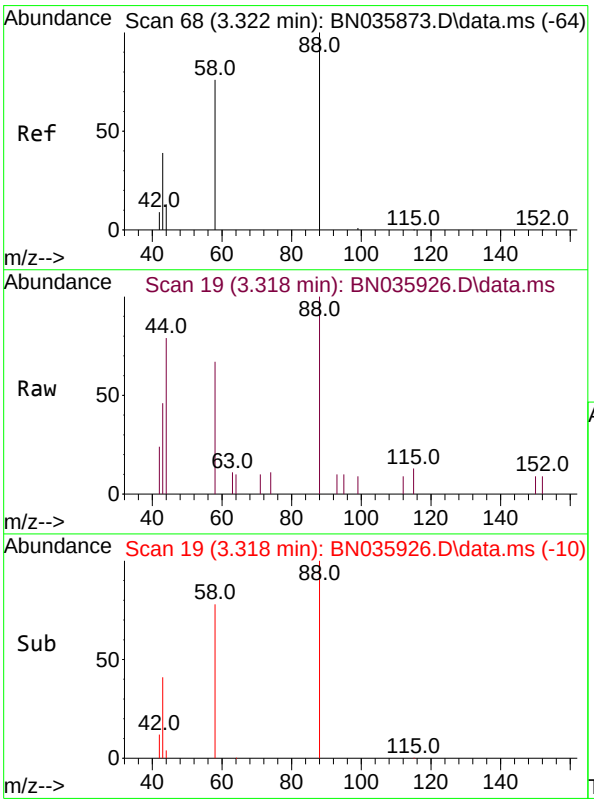
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.824 min Scan# 64
Delta R.T. -0.012 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1122

Ion	Ratio	Lower	Upper
152	100		
150	152.2	117.8	176.6
115	64.7	51.0	76.4

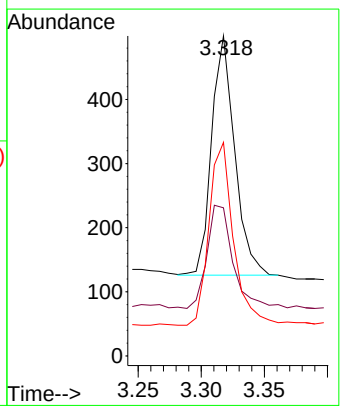


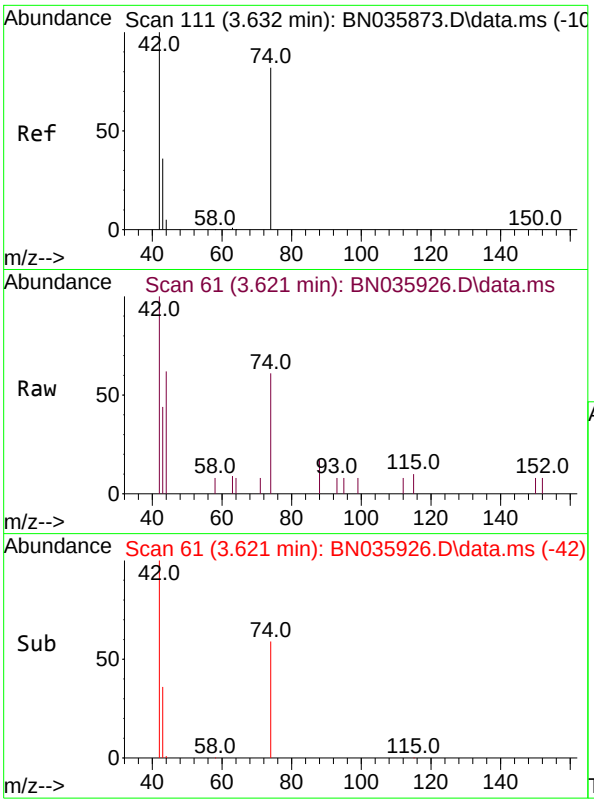


#2
1,4-Dioxane
Concen: 0.425 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion: 88 Resp: 474

Ion	Ratio	Lower	Upper
88	100		
43	47.5	32.7	49.1
58	80.8	63.0	94.4



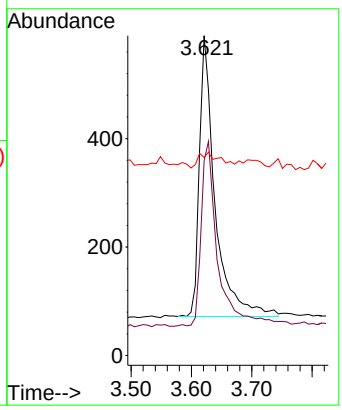


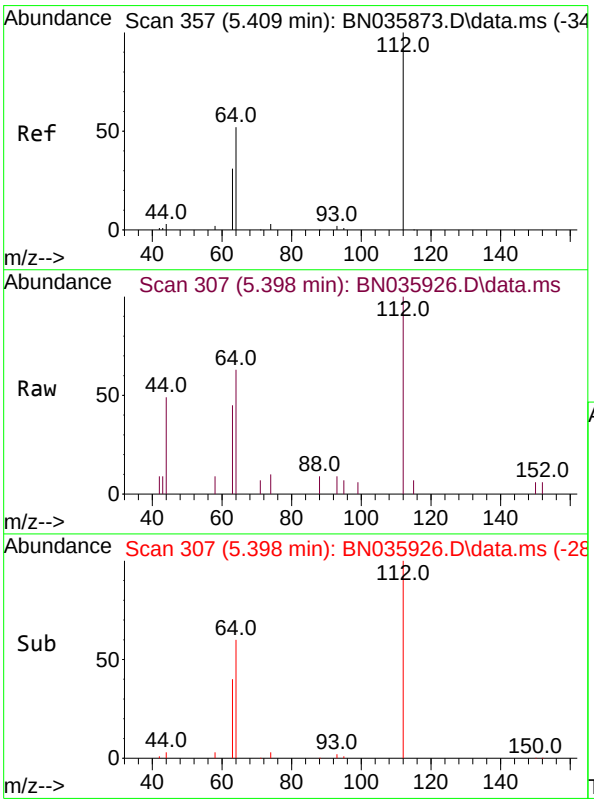
#3
n-Nitrosodimethylamine
Concen: 0.480 ng
RT: 3.621 min Scan# 6
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 933

Ion	Ratio	Lower	Upper
42	100		
74	69.7	62.2	93.2
44	7.5	7.1	10.7

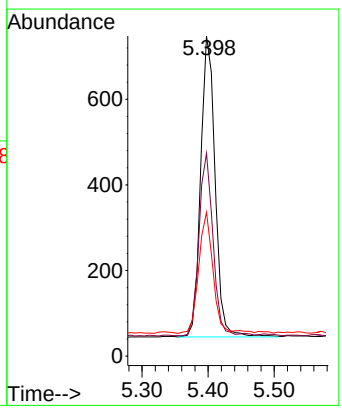


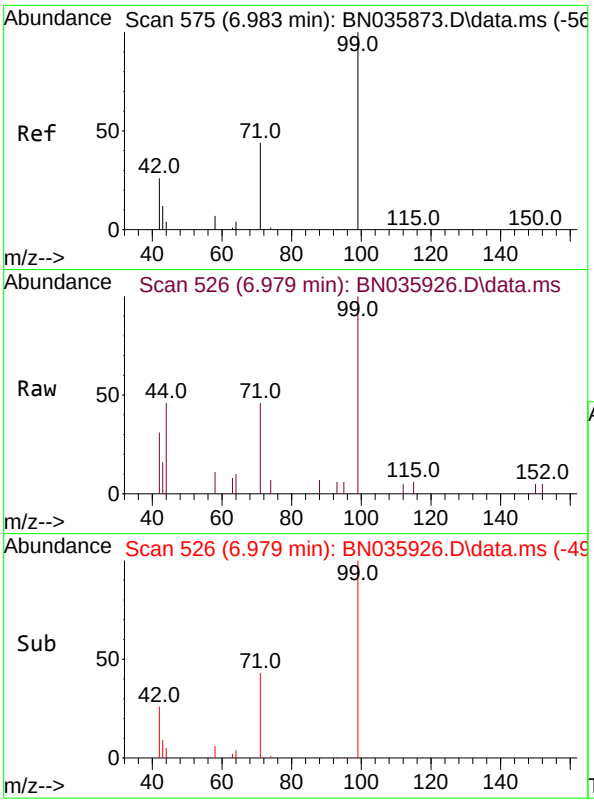


#4
2-Fluorophenol
Concen: 0.387 ng
RT: 5.398 min Scan# 307
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:112 Resp: 1064

Ion	Ratio	Lower	Upper
112	100		
64	58.6	48.2	72.2
63	39.6	30.0	45.0



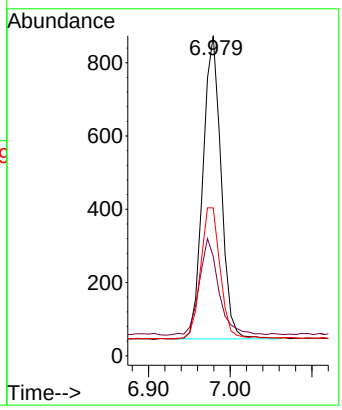


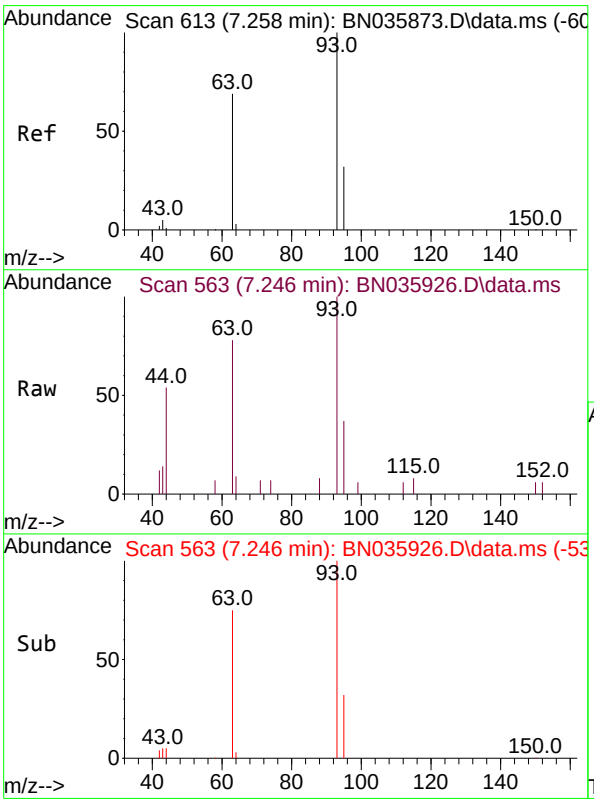
#5
Phenol-d6
Concen: 0.376 ng
RT: 6.979 min Scan# 5
Delta R.T. -0.004 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1284

Ion	Ratio	Lower	Upper
99	100		
42	34.3	23.5	35.3
71	46.9	35.5	53.3

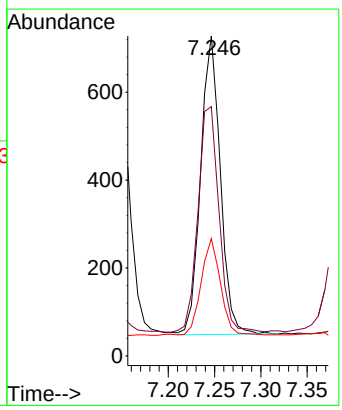


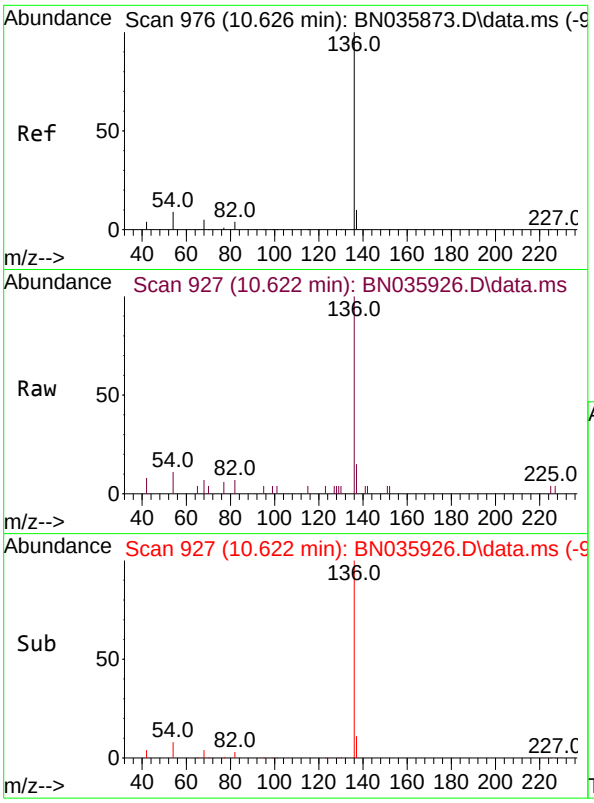


#6
bis(2-Chloroethyl)ether
Concen: 0.385 ng
RT: 7.246 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion: 93 Resp: 1004

Ion	Ratio	Lower	Upper
93	100		
63	80.3	62.0	93.0
95	32.1	25.5	38.3



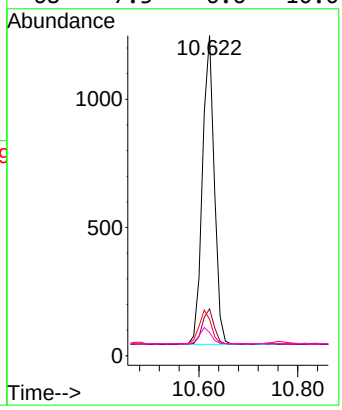


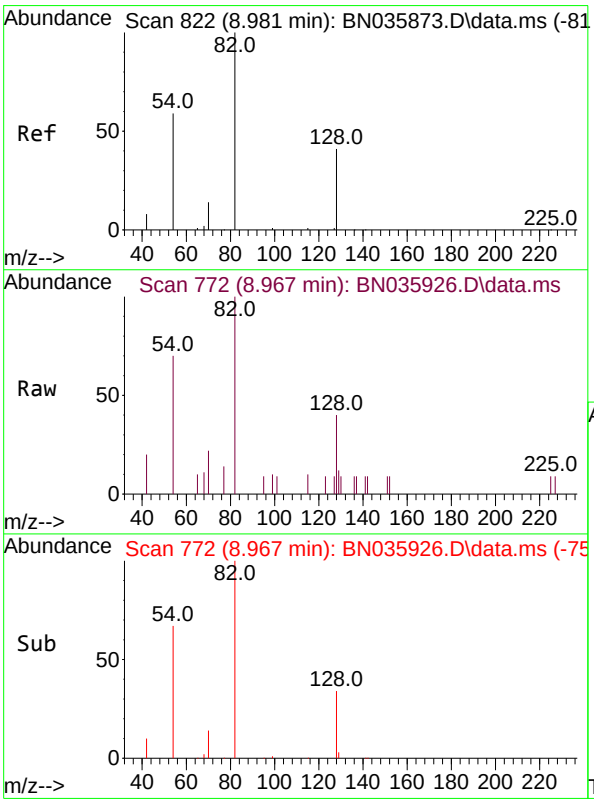
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 9
Delta R.T. -0.004 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 1996

Ion	Ratio	Lower	Upper
136	100		
137	14.7	10.6	15.8
54	11.4	9.8	14.6
68	7.3	6.6	10.0

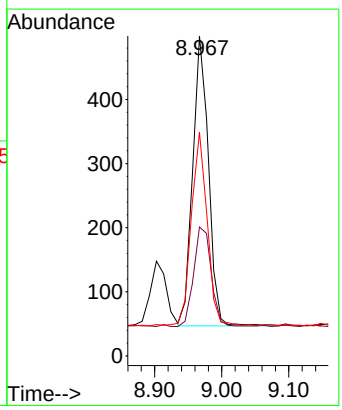


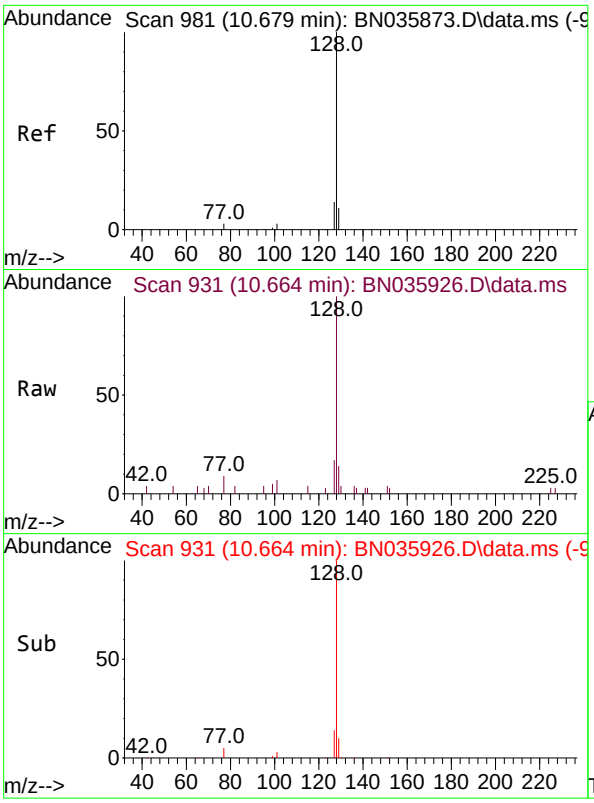


#8
Nitrobenzene-d5
Concen: 0.468 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion: 82 Resp: 740

Ion	Ratio	Lower	Upper
82	100		
128	40.3	36.9	55.3
54	69.9	50.4	75.6



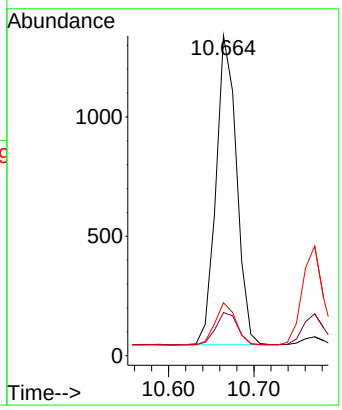


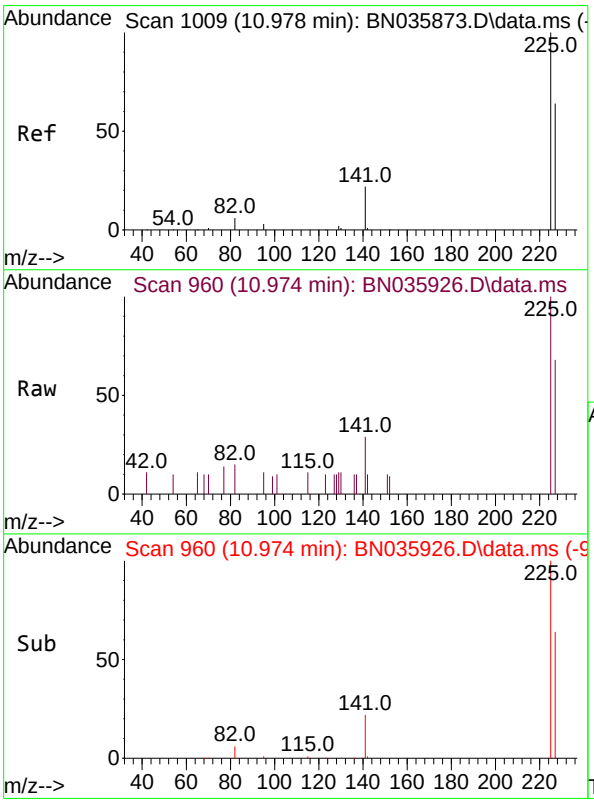
#9
Naphthalene
Concen: 0.387 ng
RT: 10.664 min Scan# 9
Delta R.T. -0.015 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 2169

Ion	Ratio	Lower	Upper
128	100		
129	13.5	10.6	16.0
127	16.6	12.8	19.2

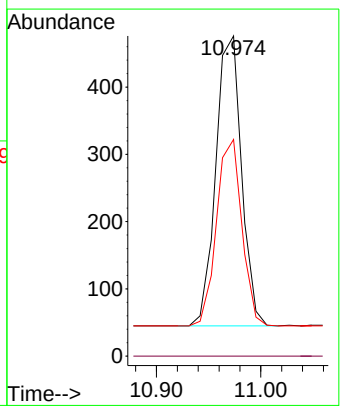


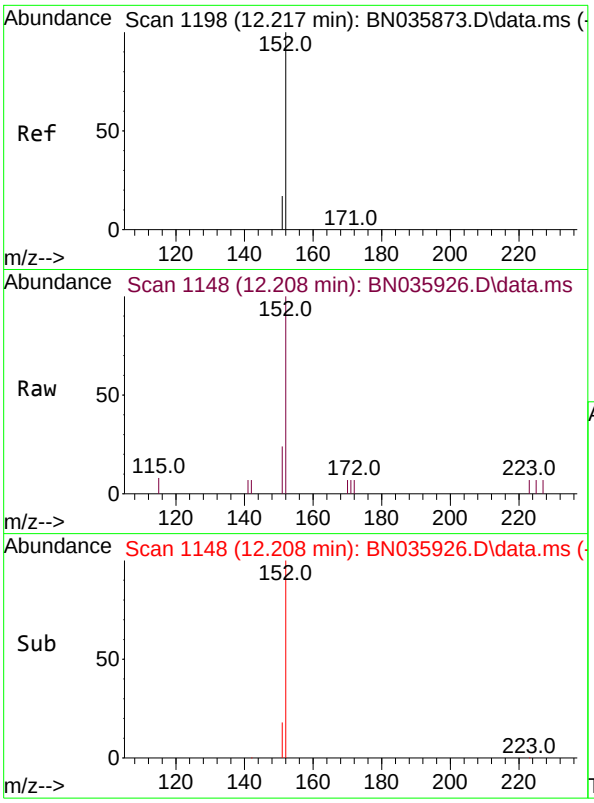


#10
Hexachlorobutadiene
Concen: 0.406 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:225 Resp: 738

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.5	77.3



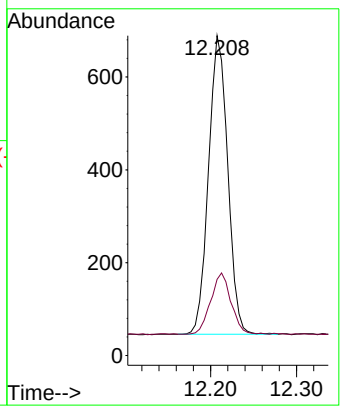


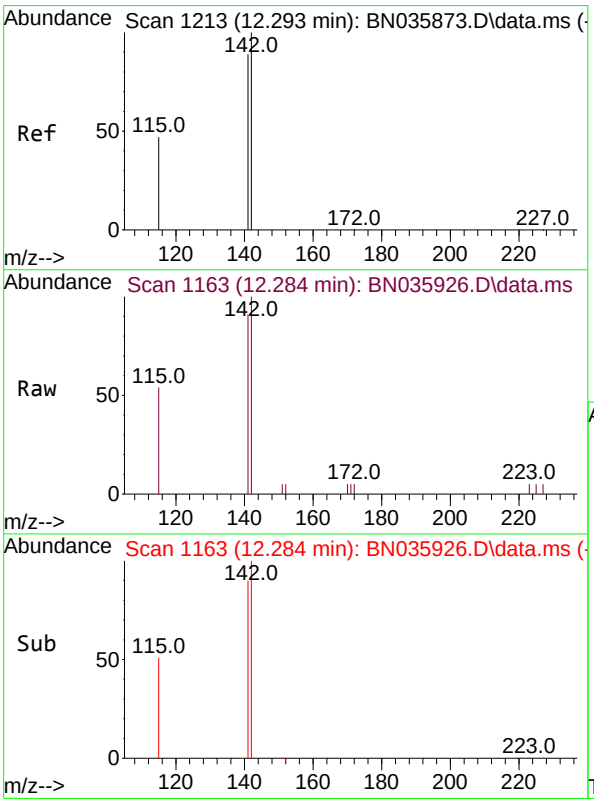
#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.208 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 998

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.0	25.6

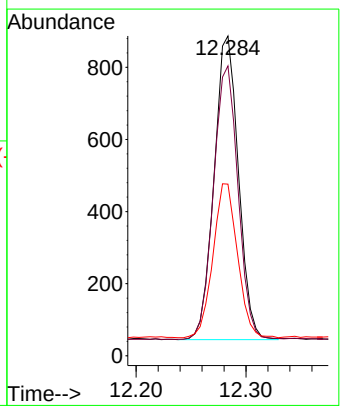


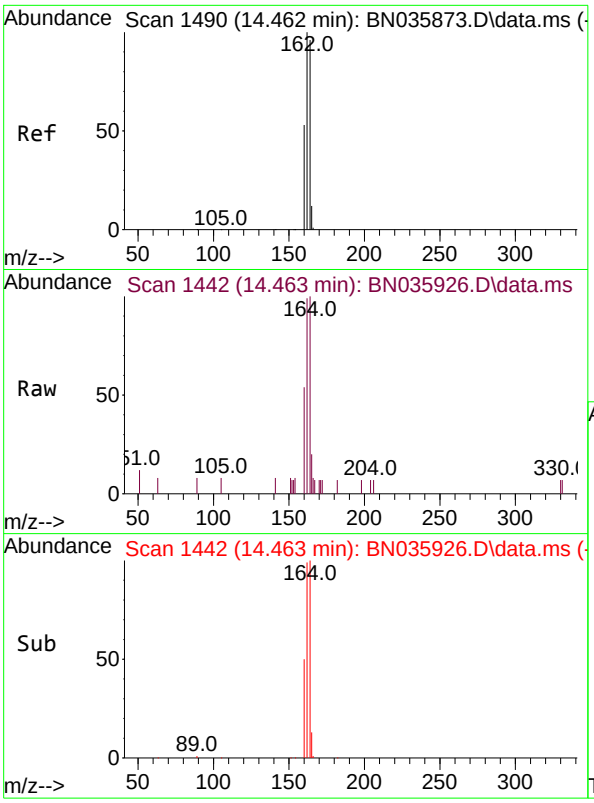


#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:142 Resp: 1300

Ion	Ratio	Lower	Upper
142	100		
141	90.6	71.9	107.9
115	53.7	39.6	59.4



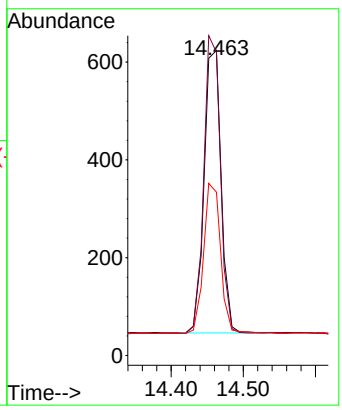


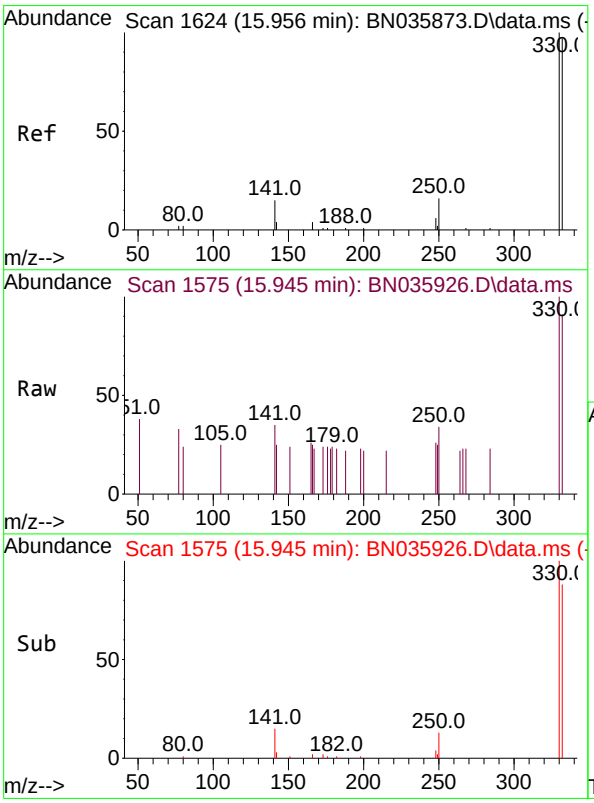
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 954

Ion	Ratio	Lower	Upper
164	100		
162	99.4	83.1	124.7
160	53.5	46.0	69.0

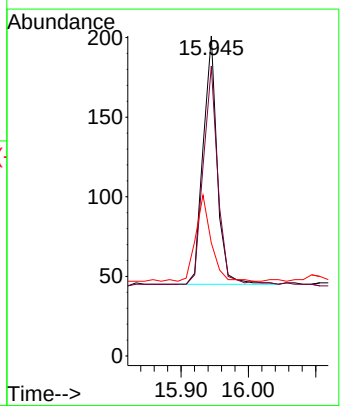


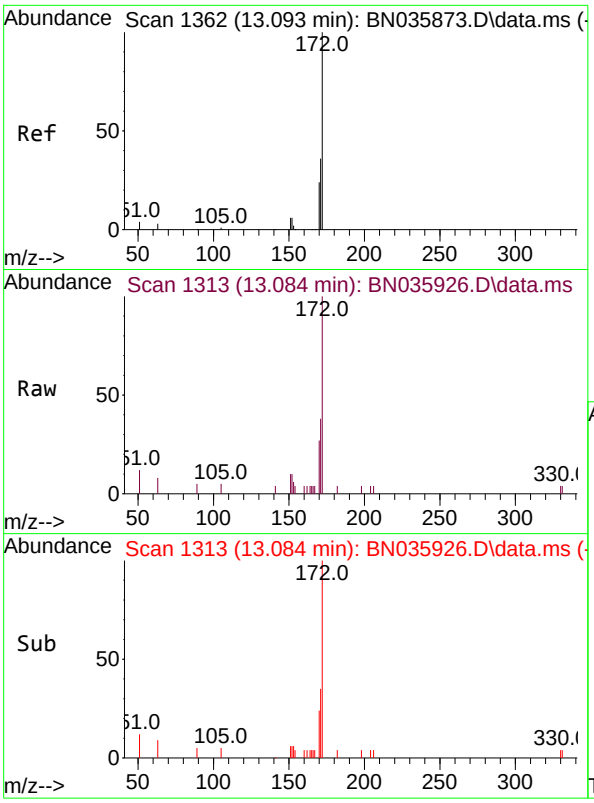


#14
2,4,6-Tribromophenol
Concen: 0.496 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:330 Resp: 227

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.2	115.8
141	37.9	31.6	47.4



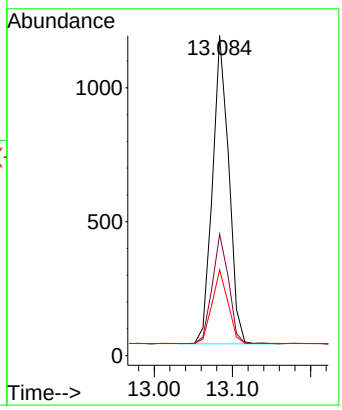


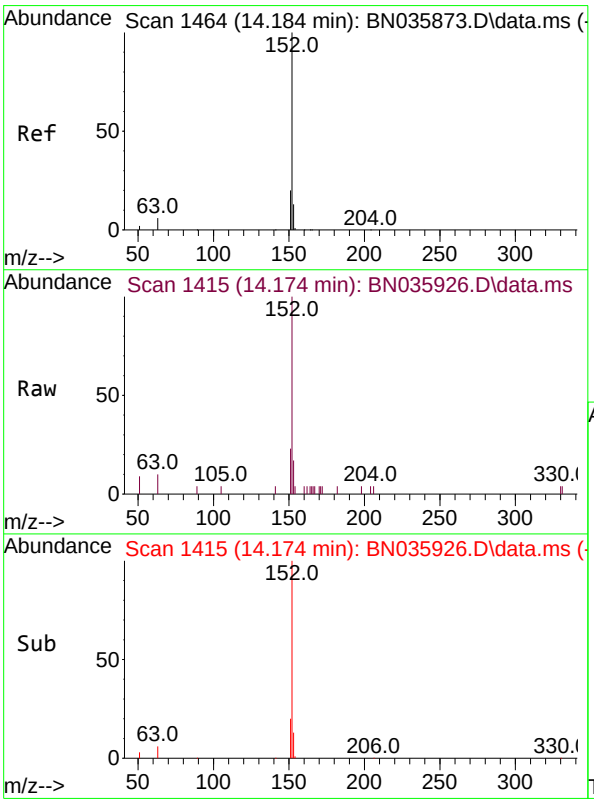
#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 13.084 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 1663

Ion	Ratio	Lower	Upper
172	100		
171	38.0	30.5	45.7
170	26.9	20.8	31.2

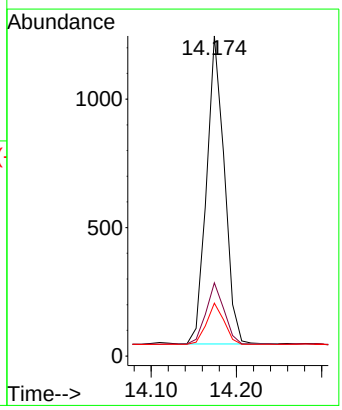


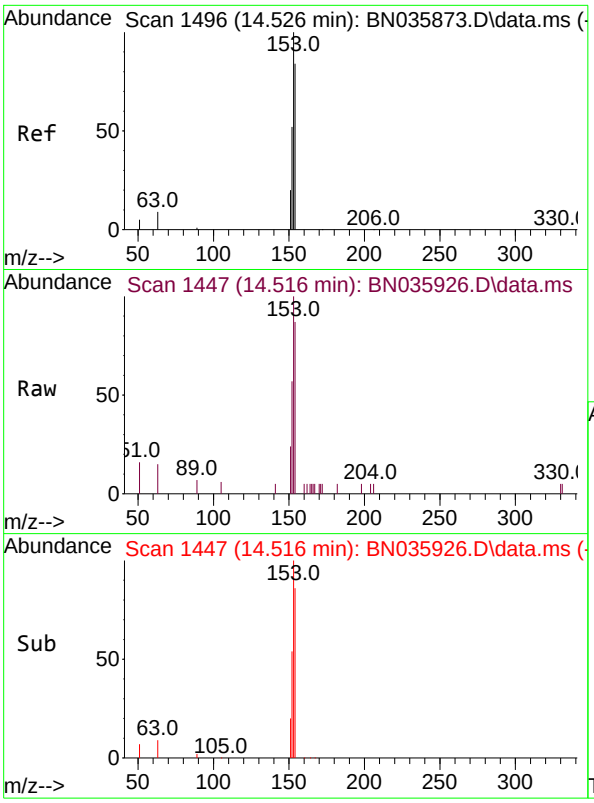


#16
Acenaphthylene
Concen: 0.387 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:152 Resp: 1740

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.3	24.5
153	13.6	10.6	15.8



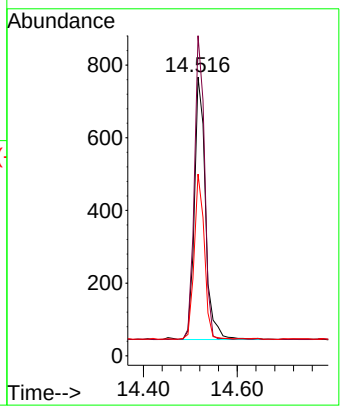


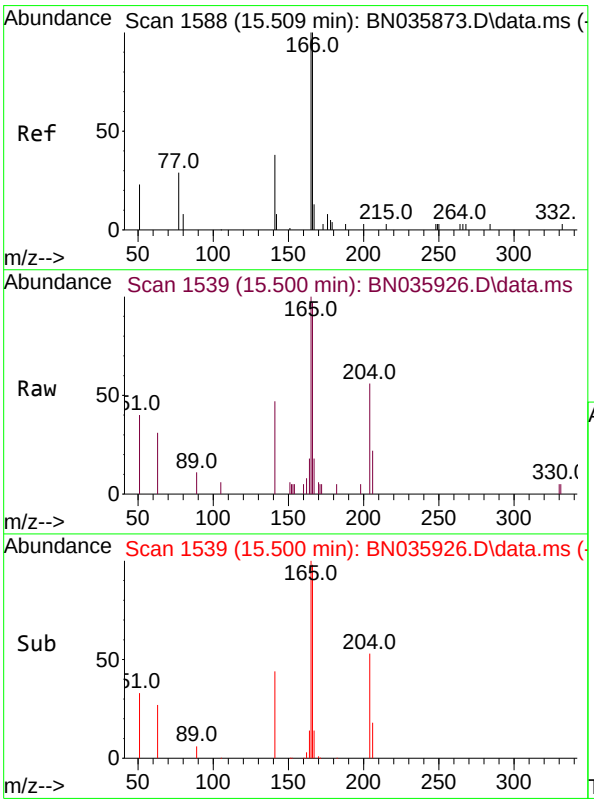
#17
Acenaphthene
Concen: 0.402 ng
RT: 14.516 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 1185

Ion	Ratio	Lower	Upper
154	100		
153	106.8	90.5	135.7
152	57.3	48.6	73.0

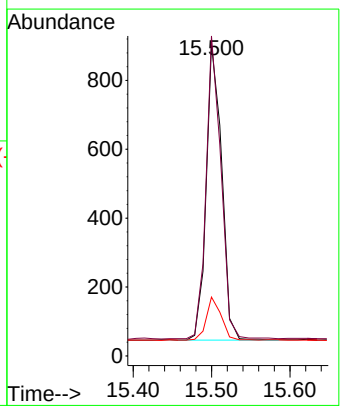


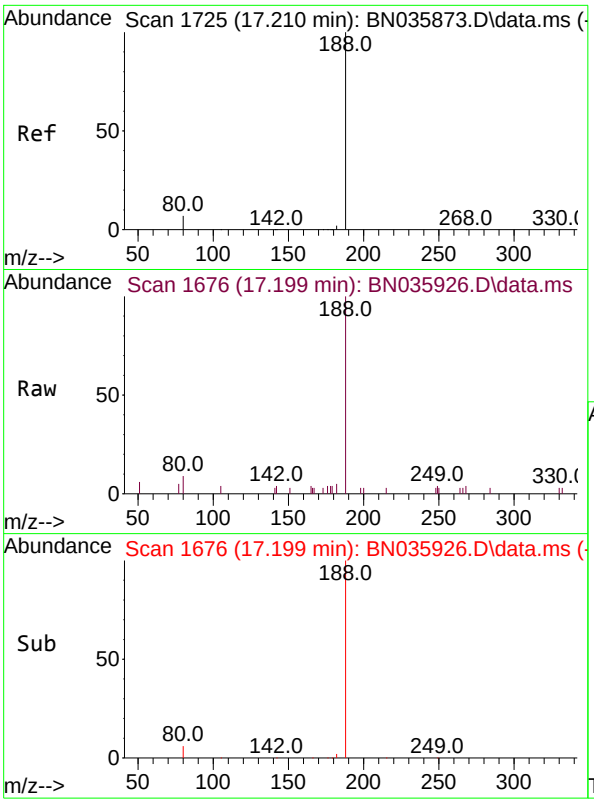


#18
Fluorene
Concen: 0.381 ng
RT: 15.500 min Scan# 1539
Delta R.T. -0.010 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:166 Resp: 1235

Ion	Ratio	Lower	Upper
166	100		
165	97.7	80.6	120.8
167	14.2	11.4	17.0



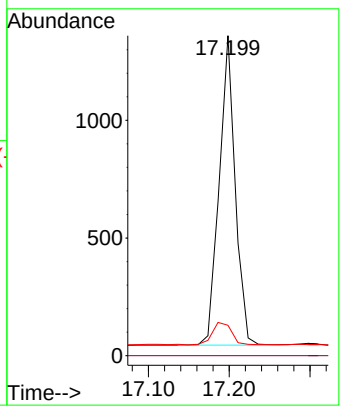


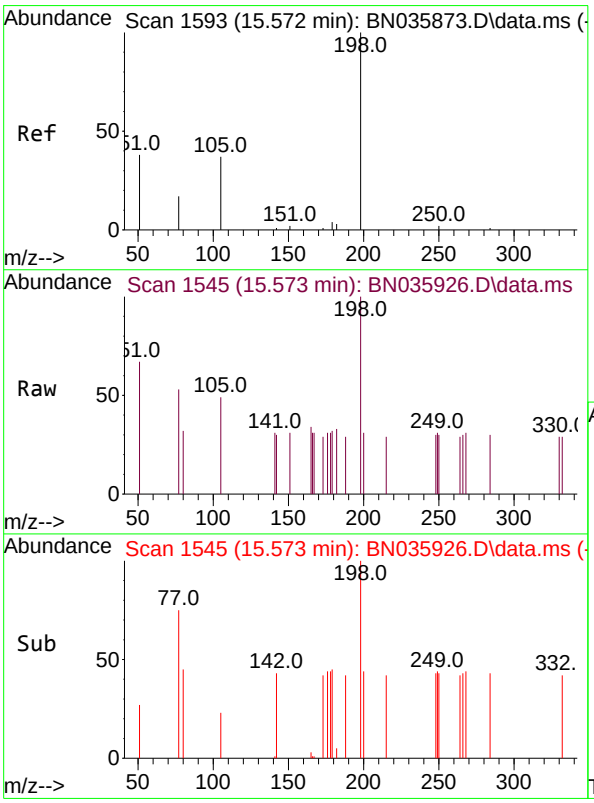
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 1813

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	7.3	10.9

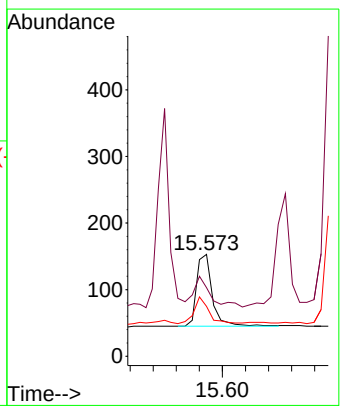


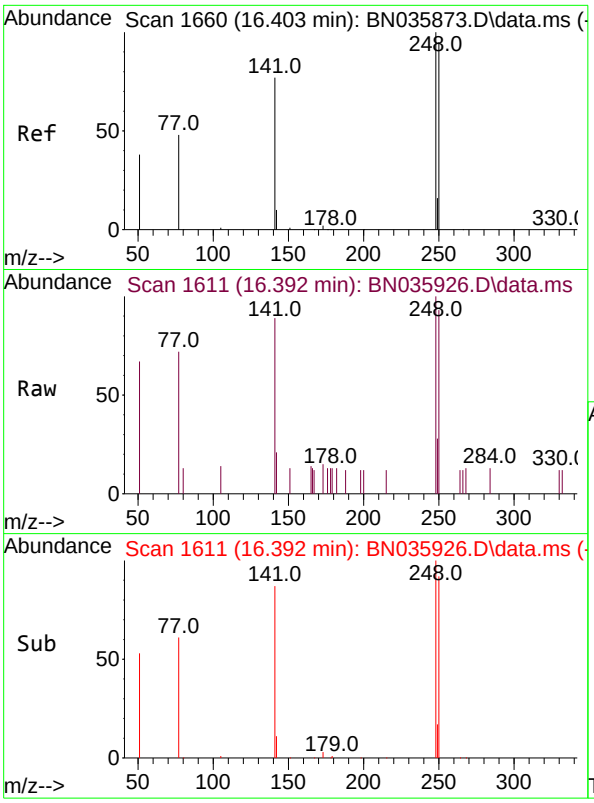


#20
4,6-Dinitro-2-methylphenol
Concen: 0.648 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:198 Resp: 204

Ion	Ratio	Lower	Upper
198	100		
51	67.3	64.3	96.5
105	49.0	50.0	75.0#



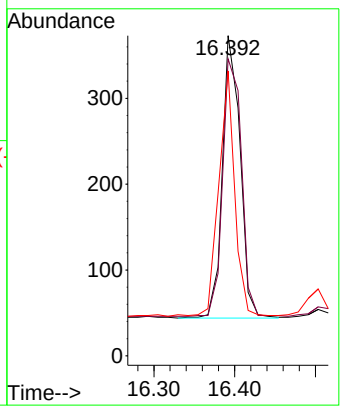


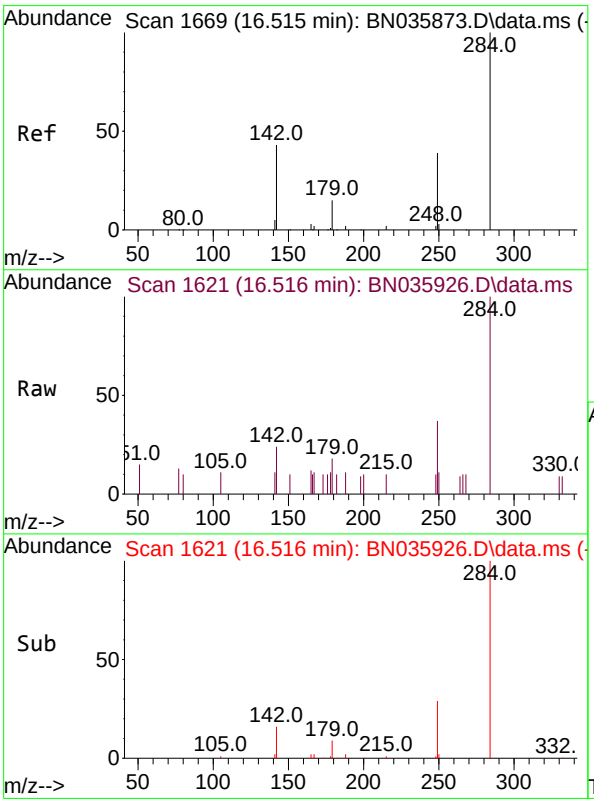
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 16.392 min Scan# 1(
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 503

Ion	Ratio	Lower	Upper
248	100		
250	92.8	76.8	115.2
141	89.0	63.6	95.4

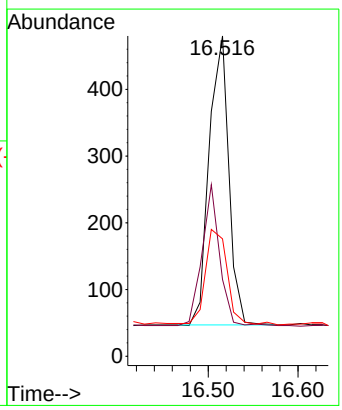


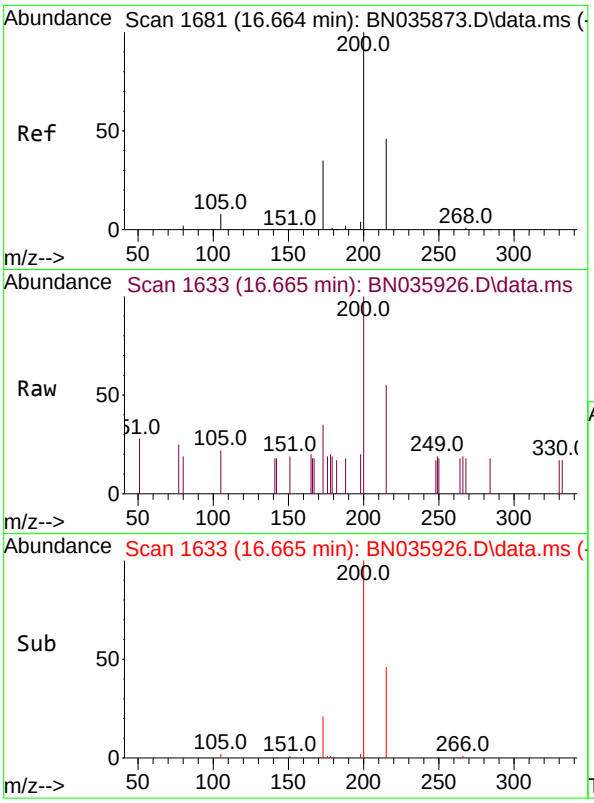


#22
Hexachlorobenzene
Concen: 0.386 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:284 Resp: 655

Ion	Ratio	Lower	Upper
284	100		
142	44.7	31.4	47.0
249	36.5	27.8	41.8



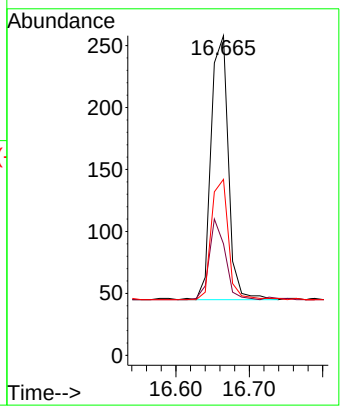


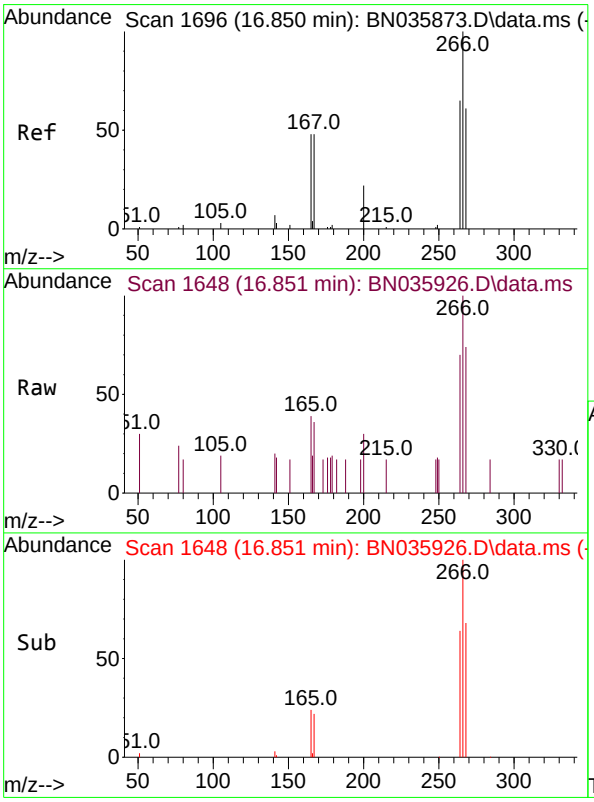
#23
Atrazine
Concen: 0.416 ng
RT: 16.665 min Scan# 1
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 347

Ion	Ratio	Lower	Upper
200	100		
173	34.9	35.4	53.0#
215	55.0	42.4	63.6

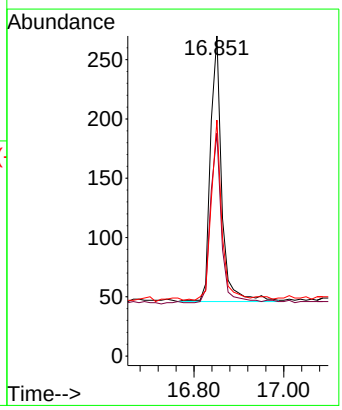


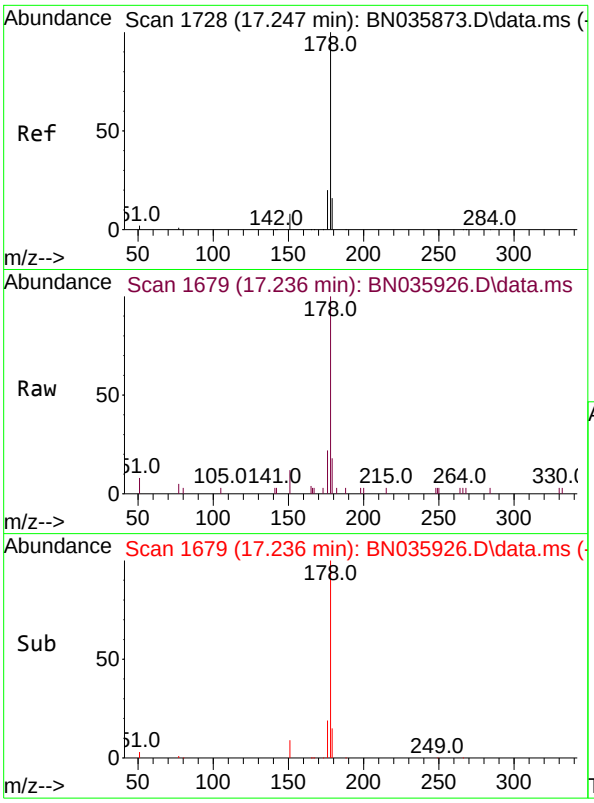


#24
Pentachlorophenol
Concen: 0.648 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:266 Resp: 389

Ion	Ratio	Lower	Upper
266	100		
264	61.4	49.9	74.9
268	63.2	50.2	75.2



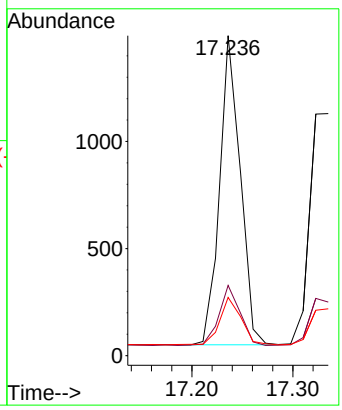


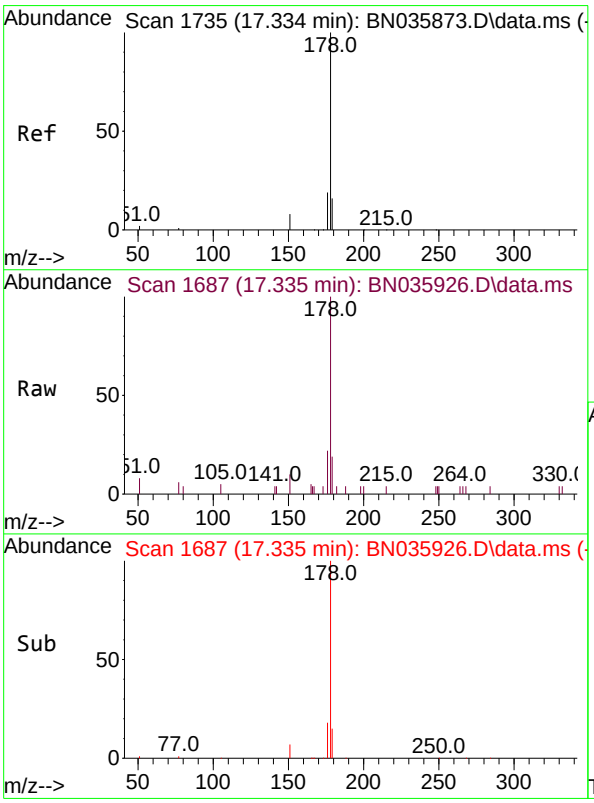
#25
Phenanthrene
Concen: 0.386 ng
RT: 17.236 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 2042

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.9	12.9	19.3

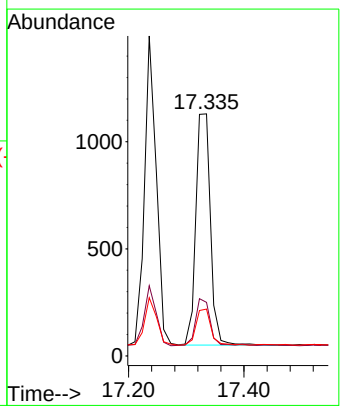


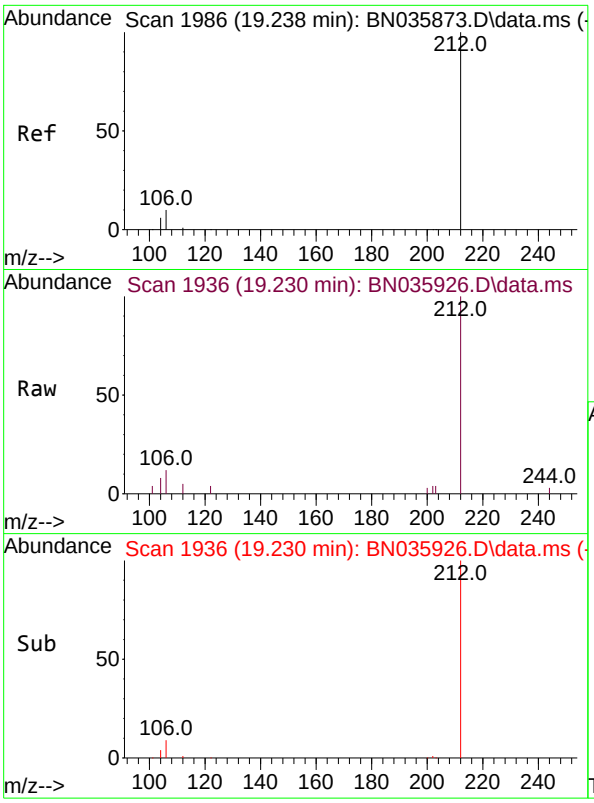


#26
Anthracene
Concen: 0.395 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:178 Resp: 1902

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.0	22.6
179	15.7	13.0	19.6



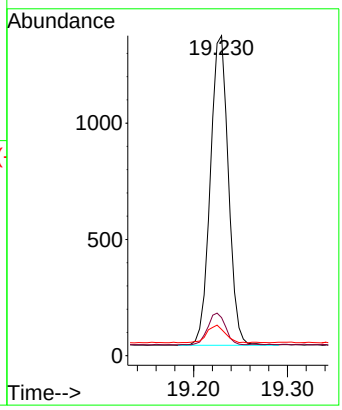


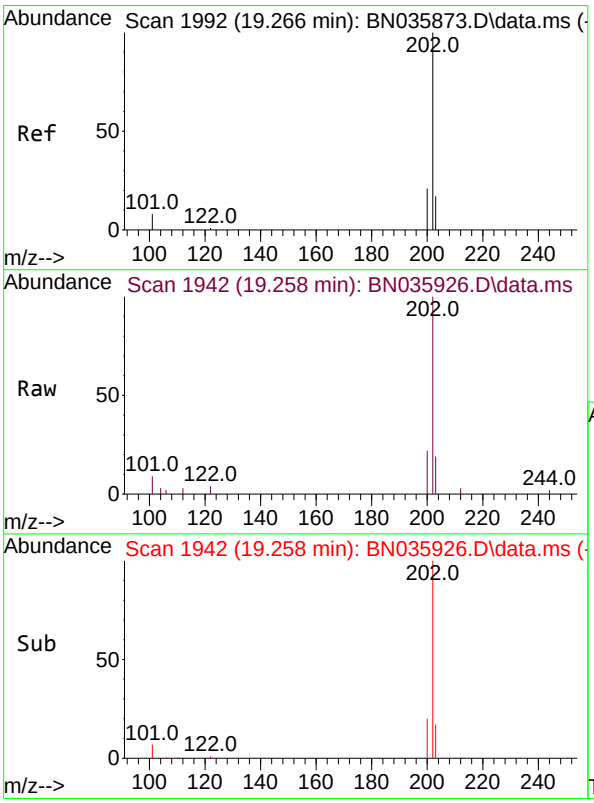
#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.230 min Scan# 1
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 1777

Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.0	13.6
104	5.9	5.4	8.2

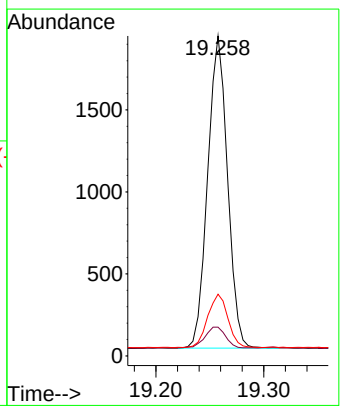


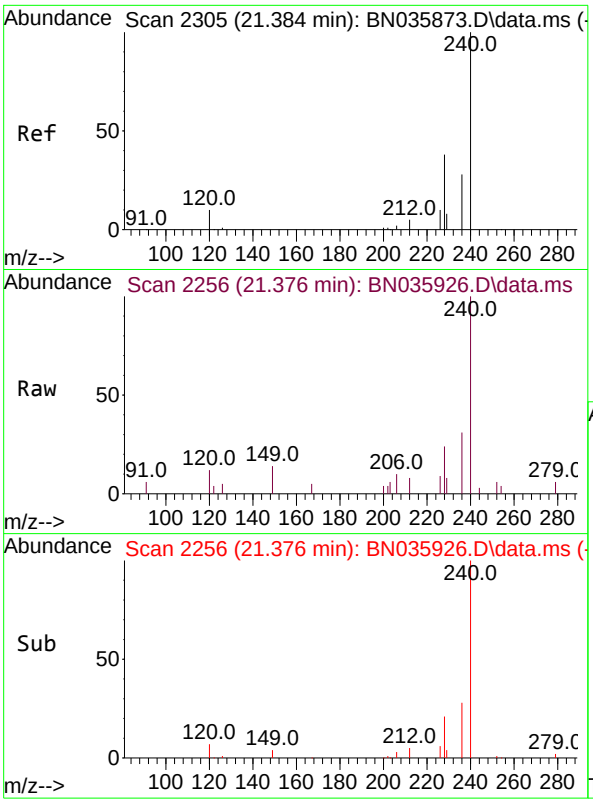


#28
Fluoranthene
Concen: 0.394 ng
RT: 19.258 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:202 Resp: 2431

Ion	Ratio	Lower	Upper
202	100		
101	7.3	7.2	10.8
203	17.6	13.9	20.9



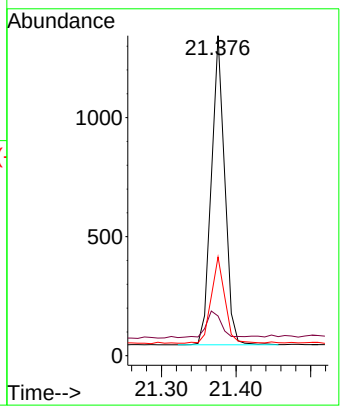


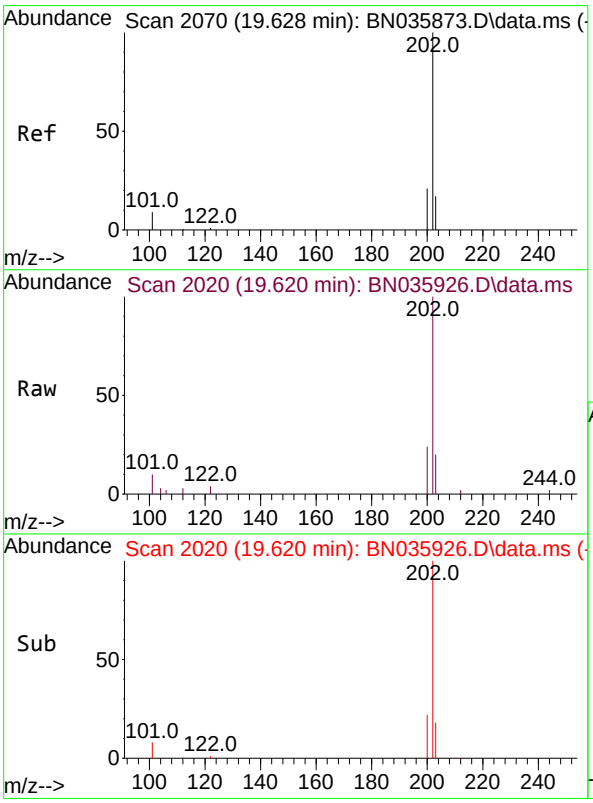
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 2
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 1614

Ion	Ratio	Lower	Upper
240	100		
120	12.4	11.1	16.7
236	30.9	24.6	36.8

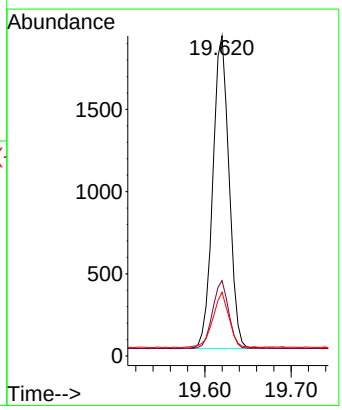


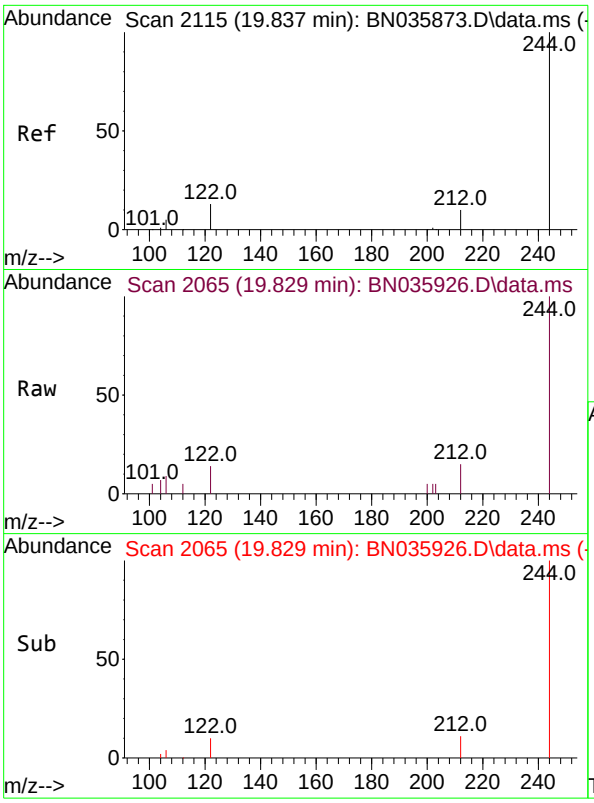


#30
Pyrene
Concen: 0.380 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:202 Resp: 2489

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.0	25.6
203	17.7	14.6	22.0



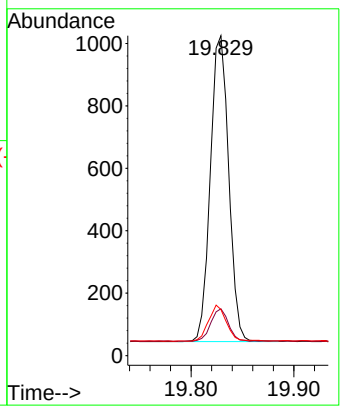


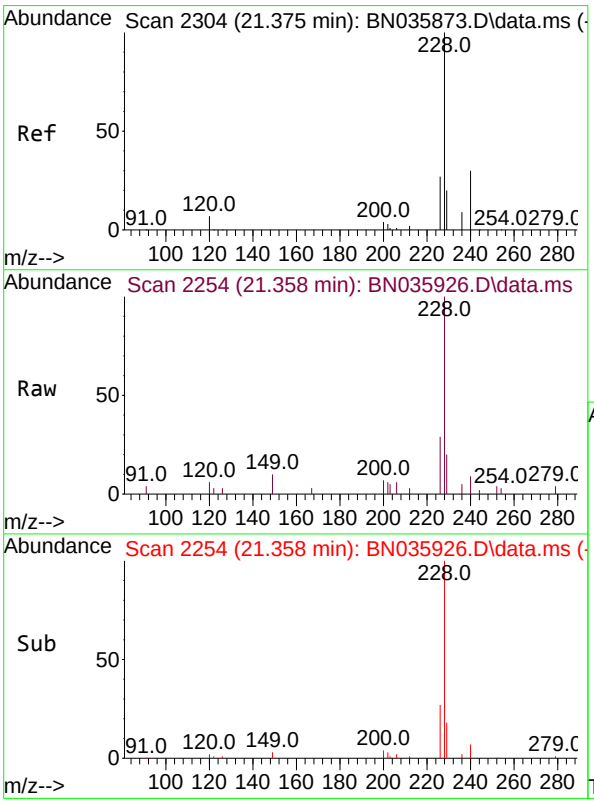
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.829 min Scan# 2
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 1214

Ion	Ratio	Lower	Upper
244	100		
212	14.6	10.1	15.1
122	14.4	12.2	18.4

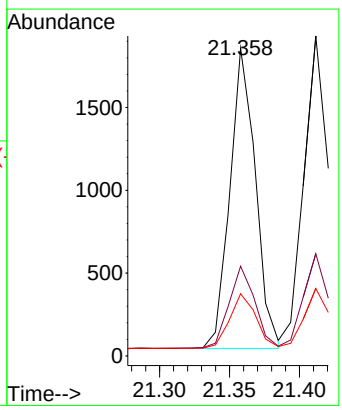


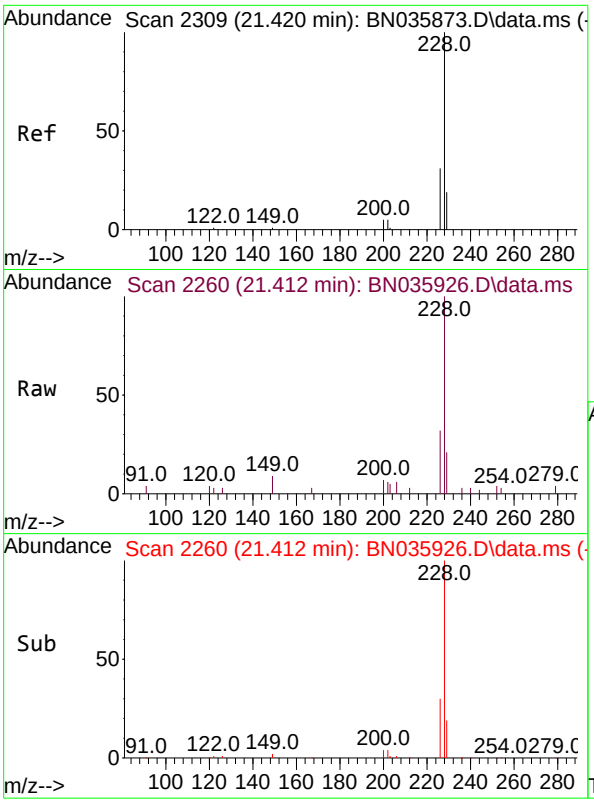


#32
Benzo(a)anthracene
Concen: 0.405 ng
RT: 21.358 min Scan# 2254
Delta R.T. -0.017 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:228 Resp: 2304

Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.7	34.1
229	20.2	17.1	25.7



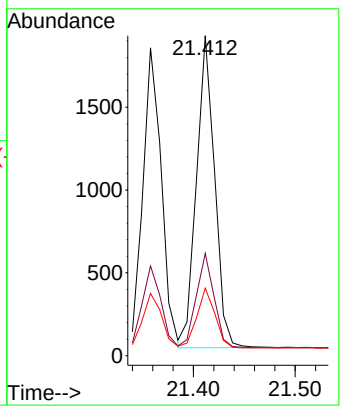


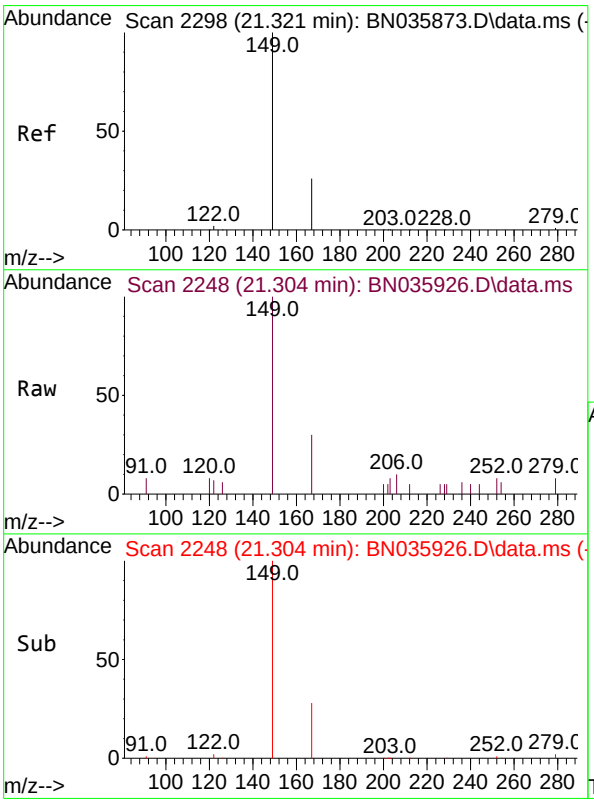
#33
Chrysene
Concen: 0.393 ng
RT: 21.412 min Scan# 2
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 2339

Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.2	37.8
229	21.1	16.0	24.0

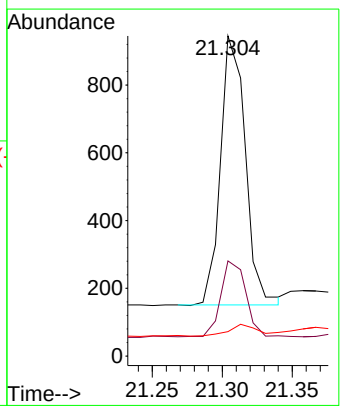


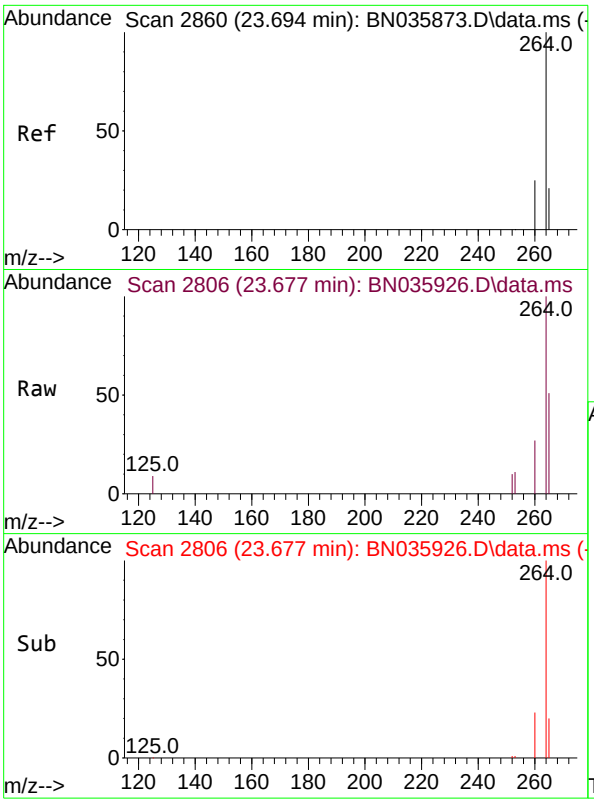


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.423 ng
RT: 21.304 min Scan# 2248
Delta R.T. -0.017 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:149 Resp: 979

Ion	Ratio	Lower	Upper
149	100		
167	28.4	21.4	32.0
279	4.8	3.0	4.6#



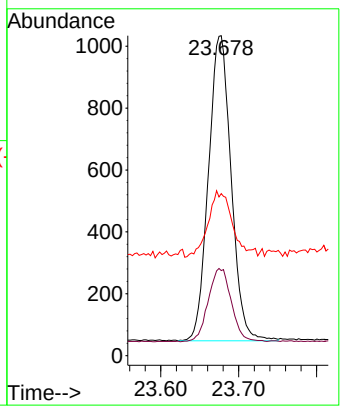


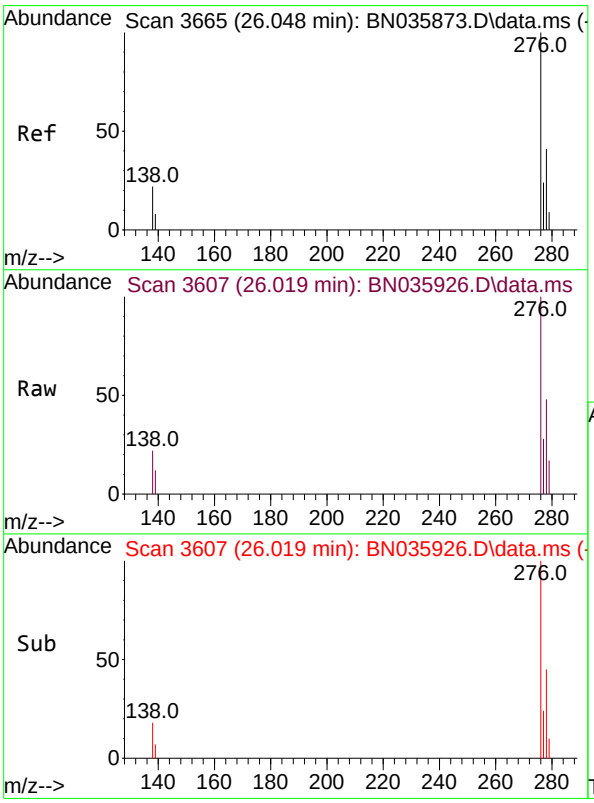
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.677 min Scan# 2
Delta R.T. -0.017 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 1998

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.7	32.5
265	50.7	33.9	50.9

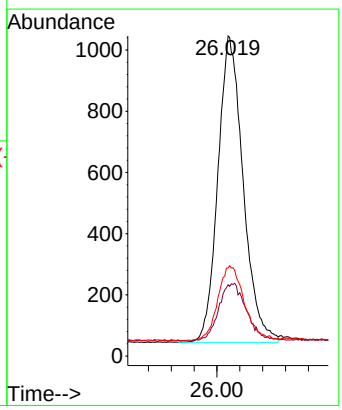


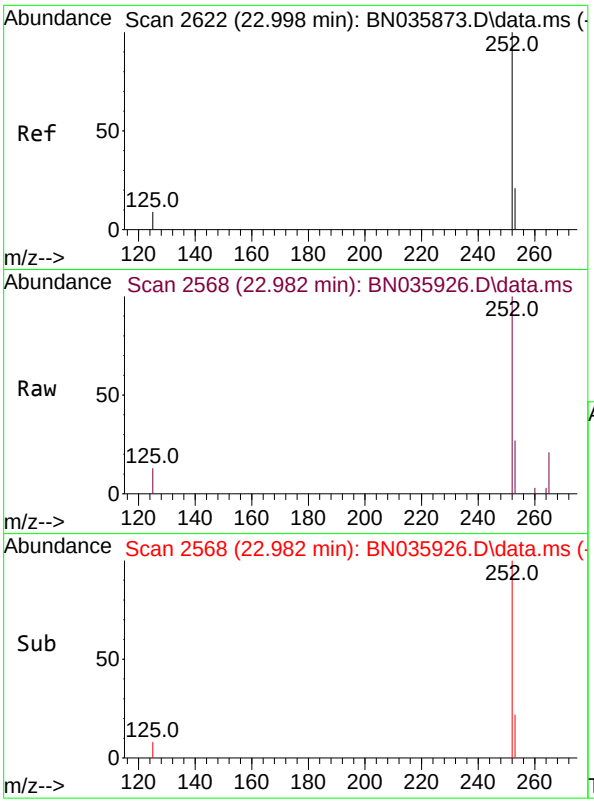


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 26.019 min Scan# 3607
Delta R.T. -0.028 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:276 Resp: 3063

Ion	Ratio	Lower	Upper
276	100		
138	20.0	18.9	28.3
277	25.7	19.5	29.3



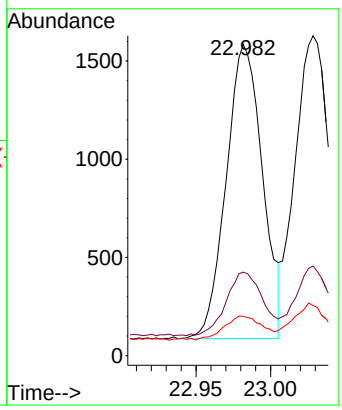


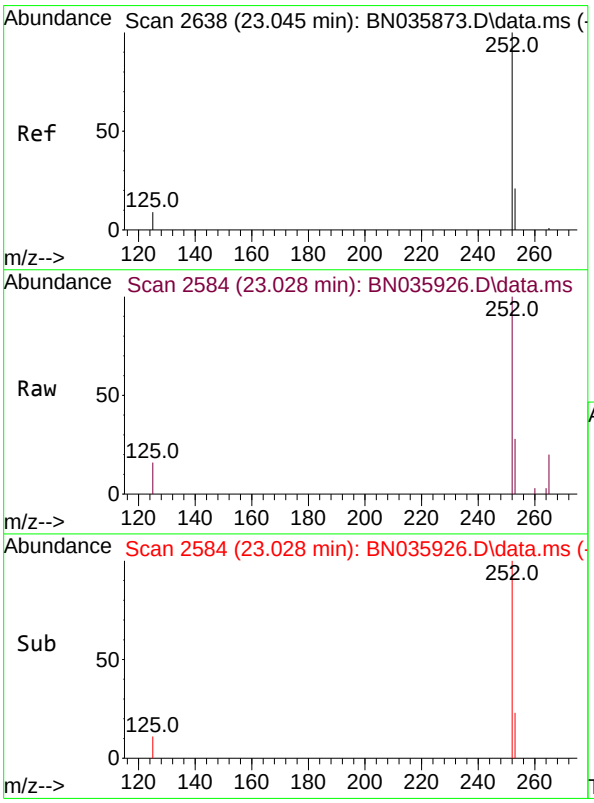
#37
Benzo(b)fluoranthene
Concen: 0.369 ng
RT: 22.982 min Scan# 2
Delta R.T. -0.017 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 2535

Ion	Ratio	Lower	Upper
252	100		
253	26.8	20.1	30.1
125	12.6	9.9	14.9

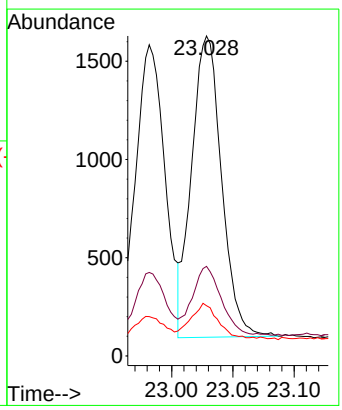


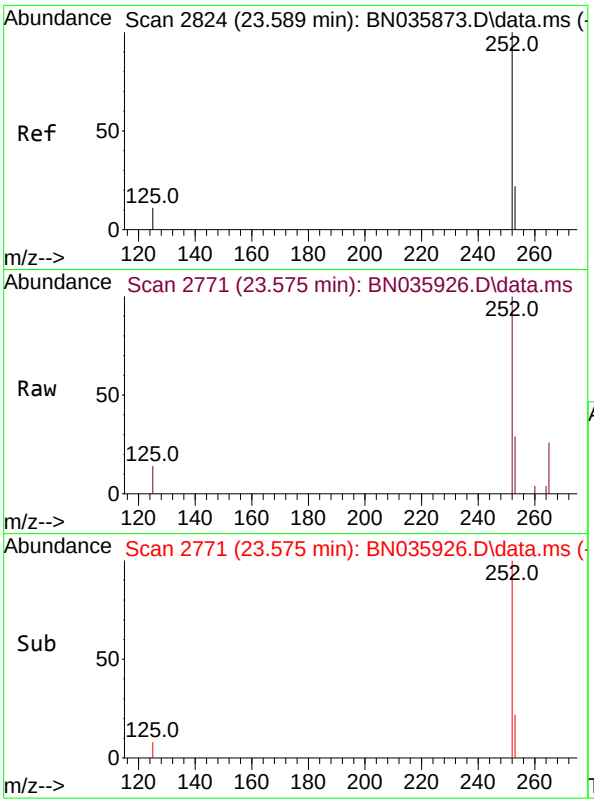


#38
Benzo(k)fluoranthene
Concen: 0.383 ng
RT: 23.028 min Scan# 2584
Delta R.T. -0.017 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:252 Resp: 2604

Ion	Ratio	Lower	Upper
252	100		
253	28.0	20.5	30.7
125	15.7	10.6	16.0



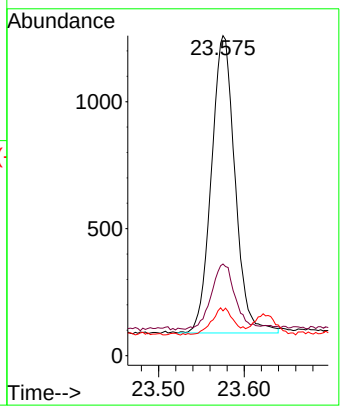


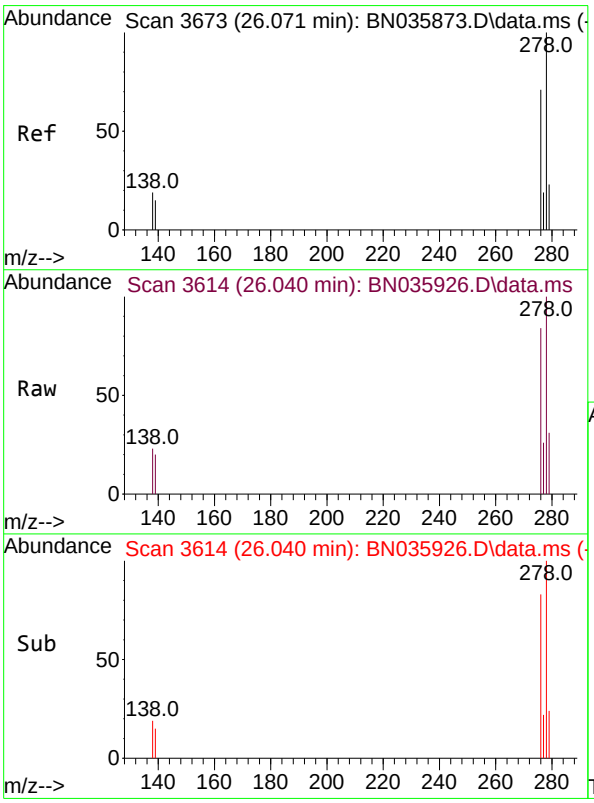
#39
Benzo(a)pyrene
Concen: 0.378 ng
RT: 23.575 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 2244

Ion	Ratio	Lower	Upper
252	100		
253	28.7	21.5	32.3
125	14.0	12.6	19.0

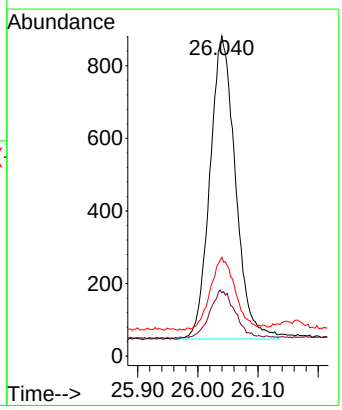


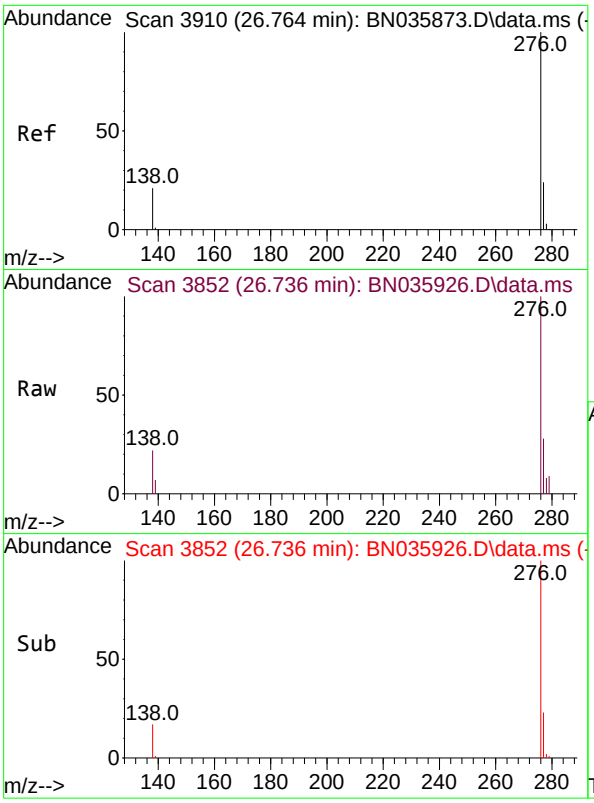


#40
Dibenzo(a,h)anthracene
Concen: 0.392 ng
RT: 26.040 min Scan# 3614
Delta R.T. -0.031 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:278 Resp: 2458

Ion	Ratio	Lower	Upper
278	100		
139	19.7	15.9	23.9
279	30.8	23.0	34.4





#41
Benzo(g,h,i)perylene
Concen: 0.383 ng
RT: 26.736 min Scan# 3
Delta R.T. -0.028 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 2684

Ion	Ratio	Lower	Upper
276	100		
277	27.8	22.8	34.2
138	21.5	20.1	30.1