Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036414.D
Acq On : 10 Feb 2025 15:24
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

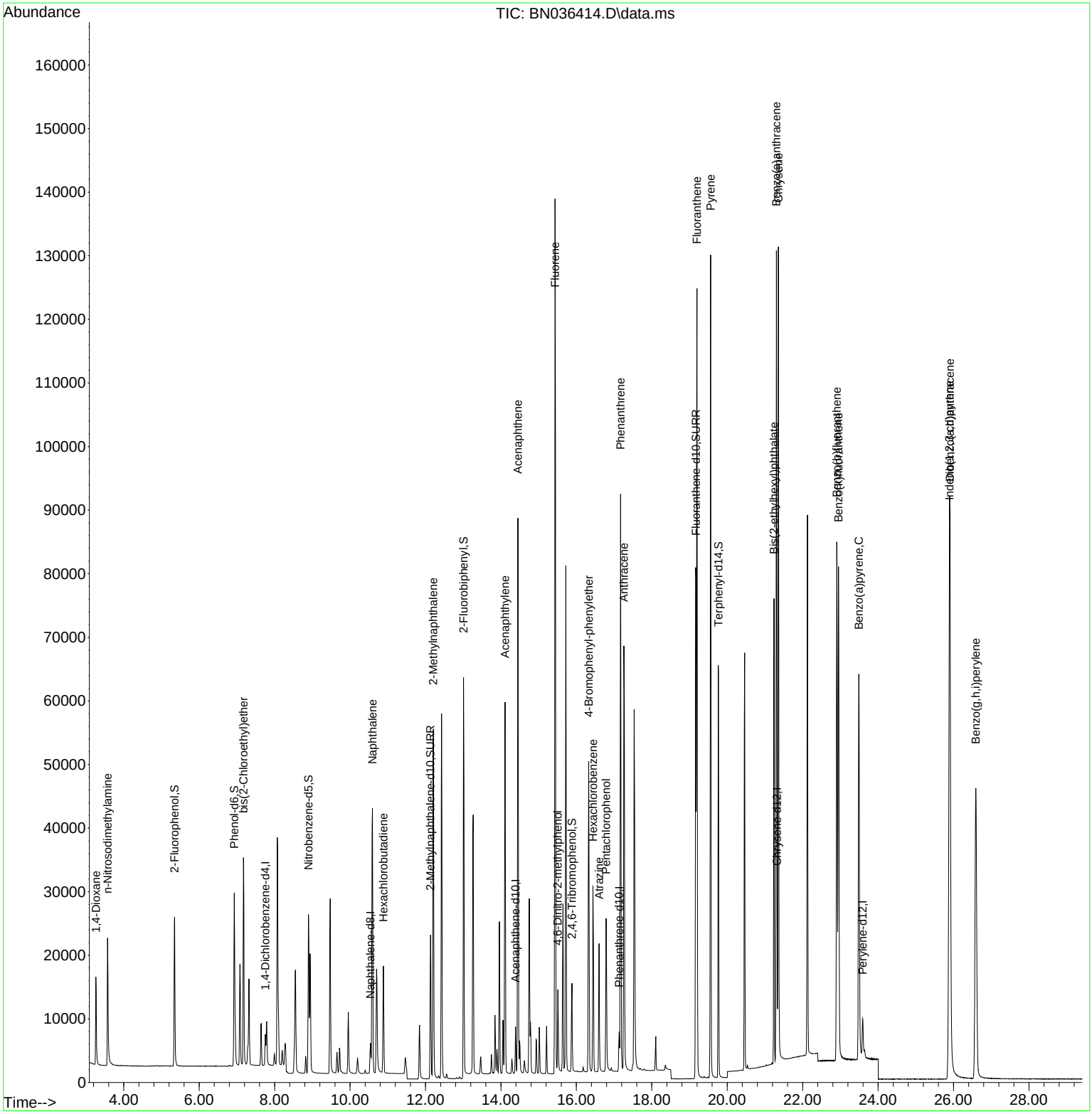
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2264	0.400	ng		0.00
7) Naphthalene-d8	10.541	136	5888	0.400	ng		# 0.00
13) Acenaphthene-d10	14.388	164	3870	0.400	ng		0.00
19) Phenanthrene-d10	17.136	188	8443	0.400	ng		0.00
29) Chrysene-d12	21.322	240	8450	0.400	ng		# 0.00
35) Perylene-d12	23.592	264	8327	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	18096	3.140	ng		0.00
5) Phenol-d6	6.930	99	22949	3.414	ng		0.00
8) Nitrobenzene-d5	8.897	82	19636	3.579	ng		-0.01
11) 2-Methylnaphthalene-d10	12.131	152	31489	3.909	ng		-0.01
14) 2,4,6-Tribromophenol	15.883	330	7004	2.937	ng		0.00
15) 2-Fluorobiphenyl	13.009	172	53807	3.260	ng		-0.01
27) Fluoranthene-d10	19.169	212	84968	3.911	ng		0.00
31) Terphenyl-d14	19.768	244	61695	3.526	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.261	88	7842	3.133	ng		97
3) n-Nitrosodimethylamine	3.572	42	13931	3.098	ng	#	98
6) bis(2-Chloroethyl)ether	7.176	93	22184	3.968	ng		99
9) Naphthalene	10.594	128	55857	3.321	ng		97
10) Hexachlorobutadiene	10.883	225	13261	2.516	ng	#	100
12) 2-Methylnaphthalene	12.207	142	38458	3.640	ng		98
16) Acenaphthylene	14.110	152	60797	3.395	ng		100
17) Acenaphthene	14.452	154	39414	3.214	ng		98
18) Fluorene	15.435	166	56634	3.589	ng		100
20) 4,6-Dinitro-2-methylph...	15.510	198	7256	3.841	ng	#	74
21) 4-Bromophenyl-phenylether	16.329	248	17824	3.081	ng	#	86
22) Hexachlorobenzene	16.441	284	21378	2.832	ng		97
23) Atrazine	16.602	200	15456	3.634	ng		92
24) Pentachlorophenol	16.789	266	11492	3.481	ng		100
25) Phenanthrene	17.173	178	85950	3.473	ng		99
26) Anthracene	17.260	178	78802	3.504	ng		99
28) Fluoranthene	19.197	202	108527	3.700	ng		99
30) Pyrene	19.559	202	110153	3.262	ng		100
32) Benzo(a)anthracene	21.304	228	99445	3.312	ng		99
33) Chrysene	21.358	228	103234	3.354	ng		97
34) Bis(2-ethylhexyl)phtha...	21.241	149	58234	3.480	ng		99
36) Indeno(1,2,3-cd)pyrene	25.890	276	108596	3.320	ng		97
37) Benzo(b)fluoranthene	22.905	252	101833	3.445	ng	#	88
38) Benzo(k)fluoranthene	22.952	252	102040	3.385	ng	#	88
39) Benzo(a)pyrene	23.490	252	87191	3.437	ng	#	84
40) Dibenzo(a,h)anthracene	25.905	278	86887	3.343	ng	#	90
41) Benzo(g,h,i)perylene	26.592	276	93260	3.269	ng		97

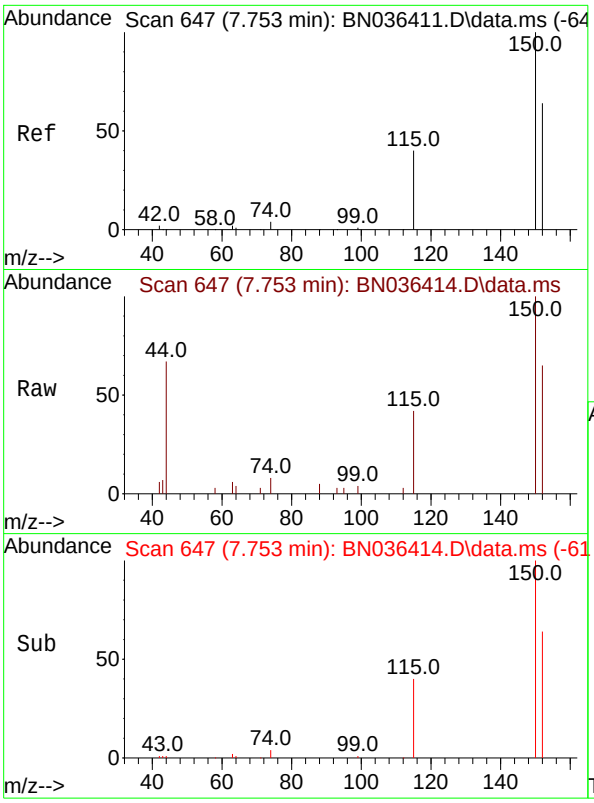
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036414.D
Acq On : 10 Feb 2025 15:24
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration



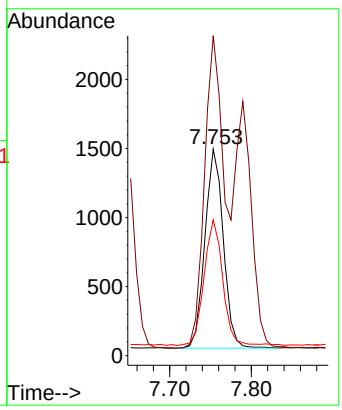


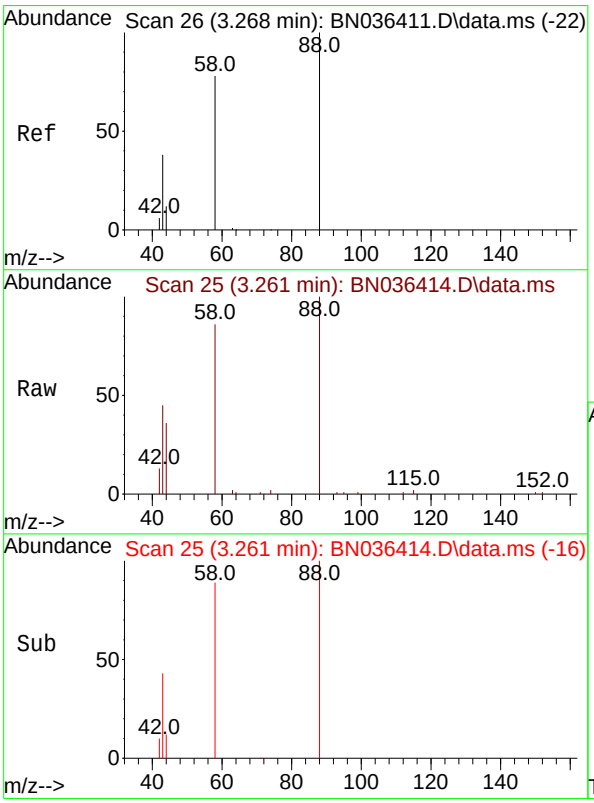
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2264

Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.7	185.5
115	65.7	52.5	78.7

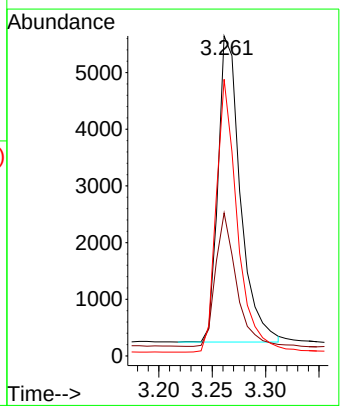


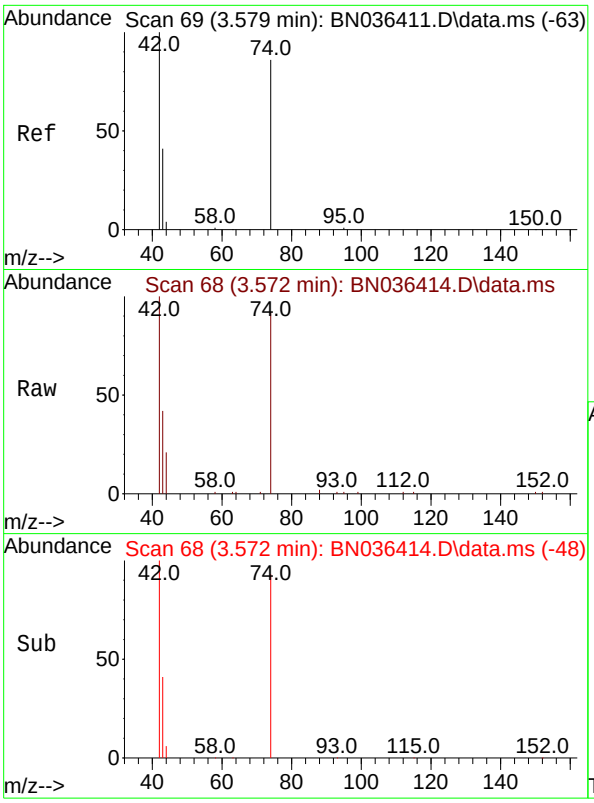


#2
1,4-Dioxane
Concen: 3.133 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 88 Resp: 7842

Ion	Ratio	Lower	Upper
88	100		
43	40.6	33.7	50.5
58	83.7	68.9	103.3



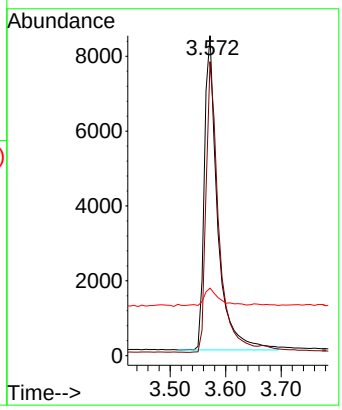


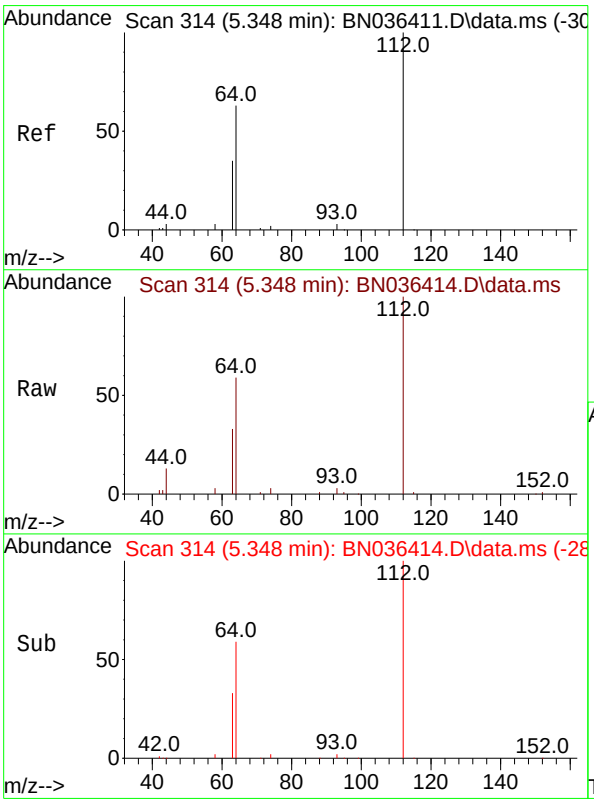
#3
n-Nitrosodimethylamine
Concen: 3.098 ng
RT: 3.572 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 13931

Ion	Ratio	Lower	Upper
42	100		
74	91.3	71.8	107.6
44	6.4	7.8	11.6#

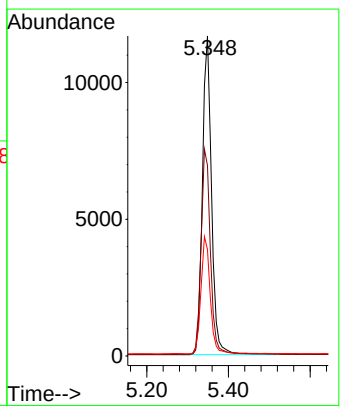


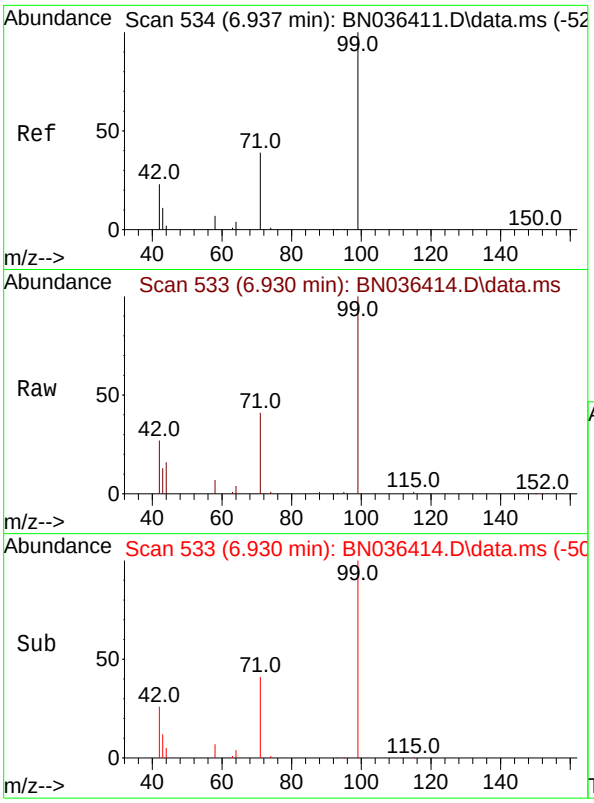


#4
2-Fluorophenol
Concen: 3.140 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:112 Resp: 18096

Ion	Ratio	Lower	Upper
112	100		
64	66.2	53.4	80.0
63	36.9	30.3	45.5



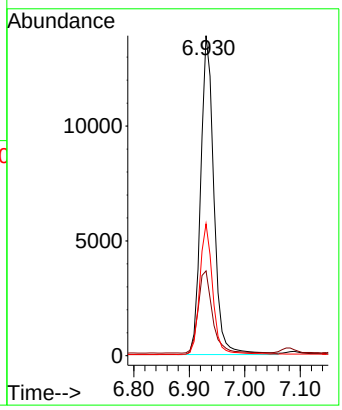


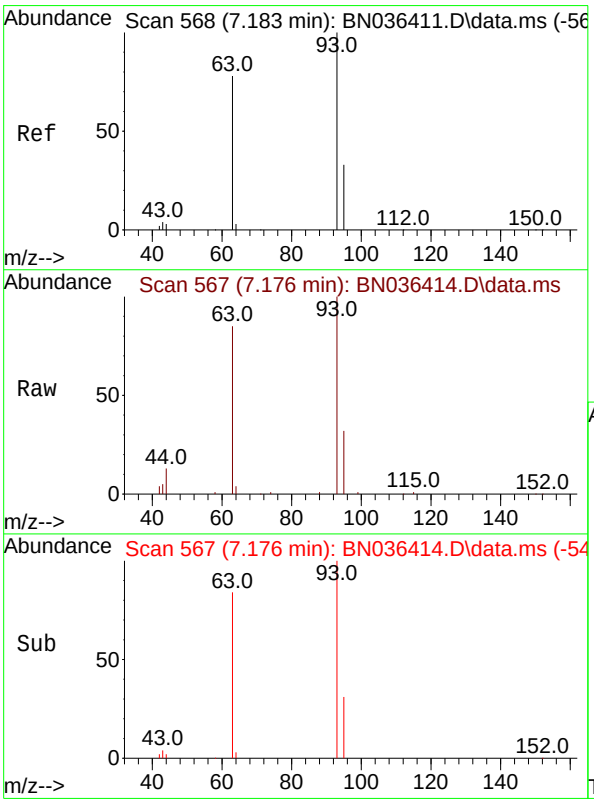
#5
Phenol-d6
Concen: 3.414 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 22949

Ion	Ratio	Lower	Upper
99	100		
42	28.0	21.7	32.5
71	40.5	32.6	49.0

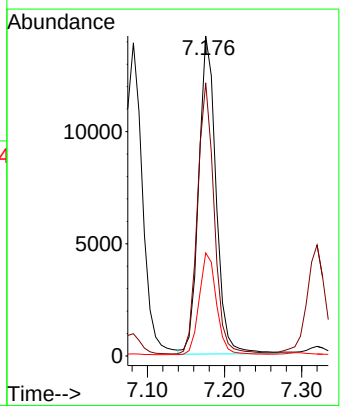


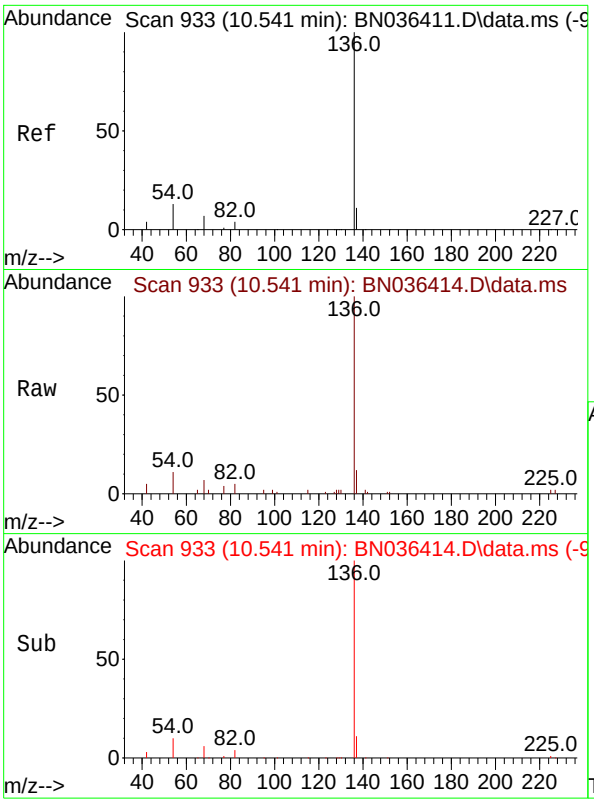


#6
bis(2-Chloroethyl)ether
Concen: 3.968 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 93 Resp: 22184

Ion	Ratio	Lower	Upper
93	100		
63	82.3	66.3	99.5
95	31.7	26.2	39.4



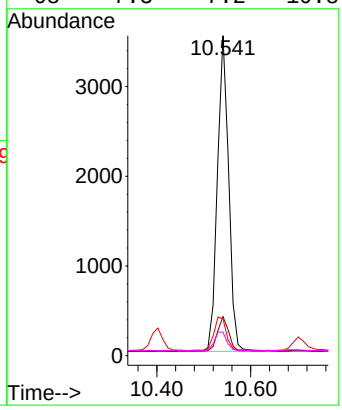


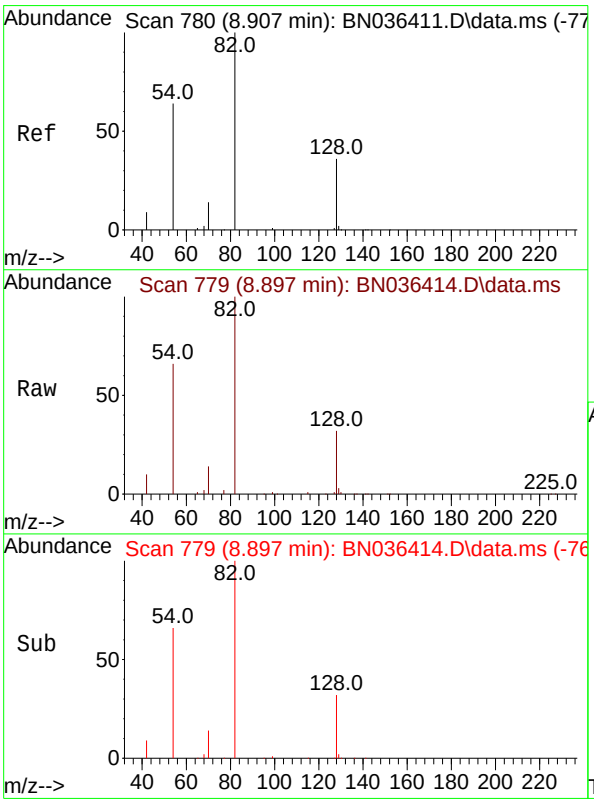
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5888

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.1	15.1
54	11.4	11.8	17.6#
68	7.3	7.2	10.8

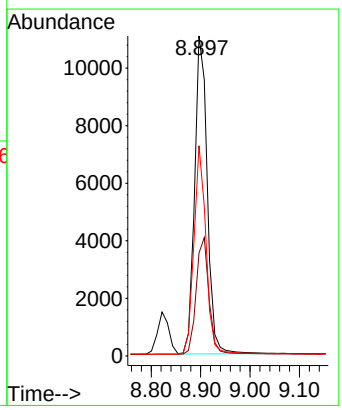


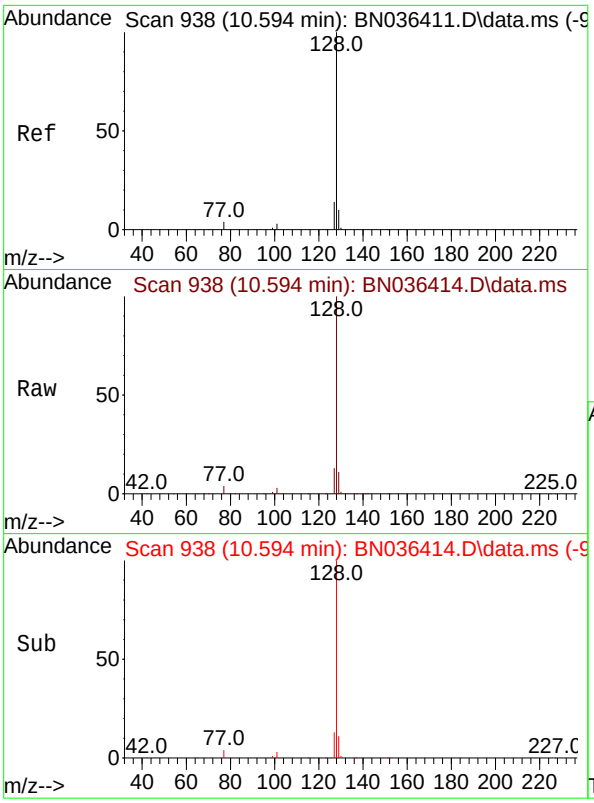


#8
Nitrobenzene-d5
Concen: 3.579 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 82 Resp: 19636

Ion	Ratio	Lower	Upper
82	100		
128	32.1	31.9	47.9
54	65.7	53.1	79.7



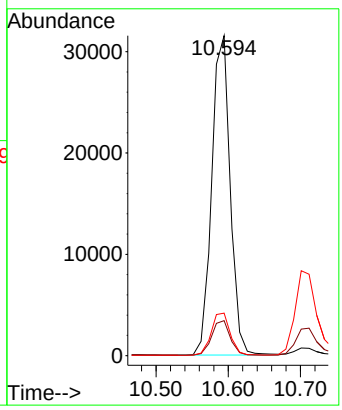


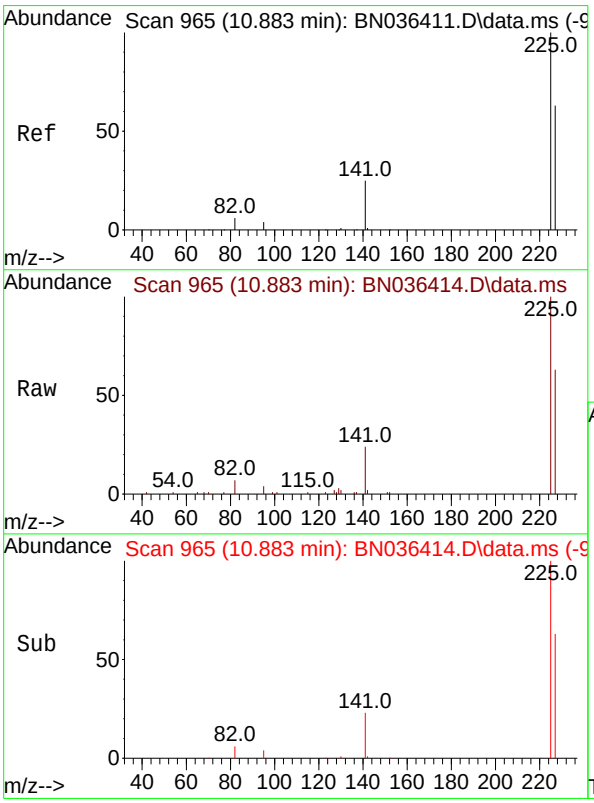
#9
Naphthalene
Concen: 3.321 ng
RT: 10.594 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 55857

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.6	14.4
127	13.3	12.0	18.0

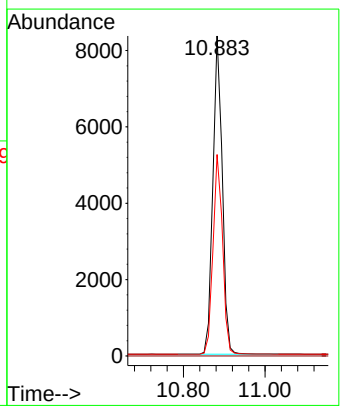


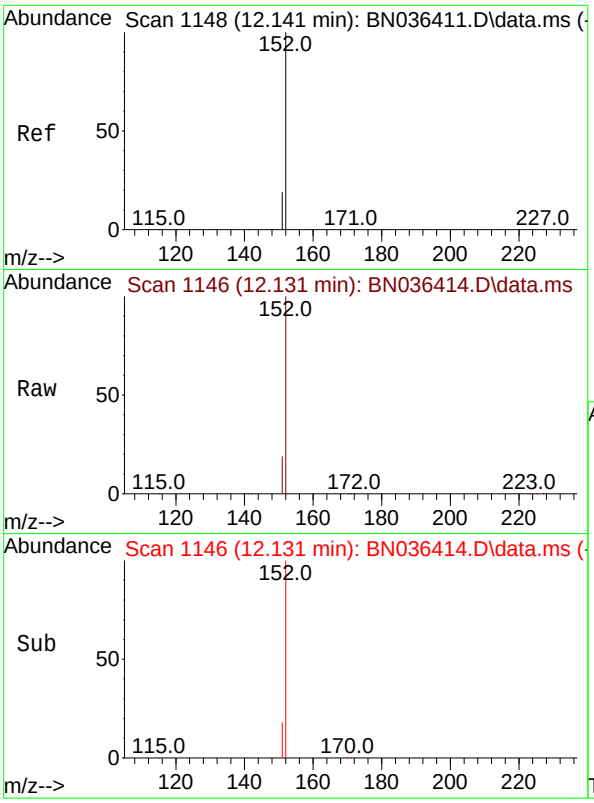


#10
Hexachlorobutadiene
Concen: 2.516 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:225 Resp: 13261

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.9	76.3



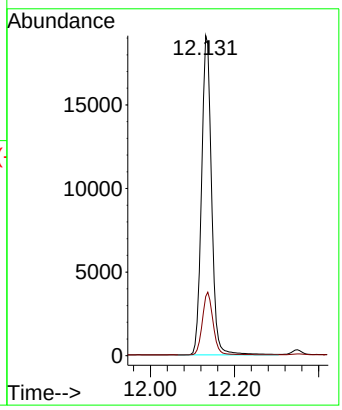


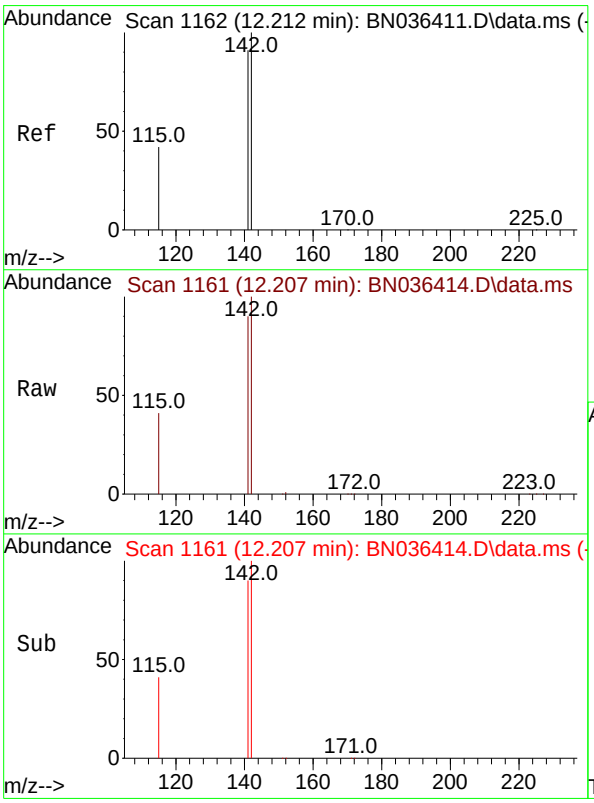
#11
2-Methylnaphthalene-d10
Concen: 3.909 ng
RT: 12.131 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 31489

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

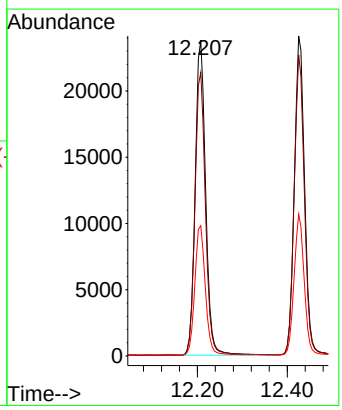


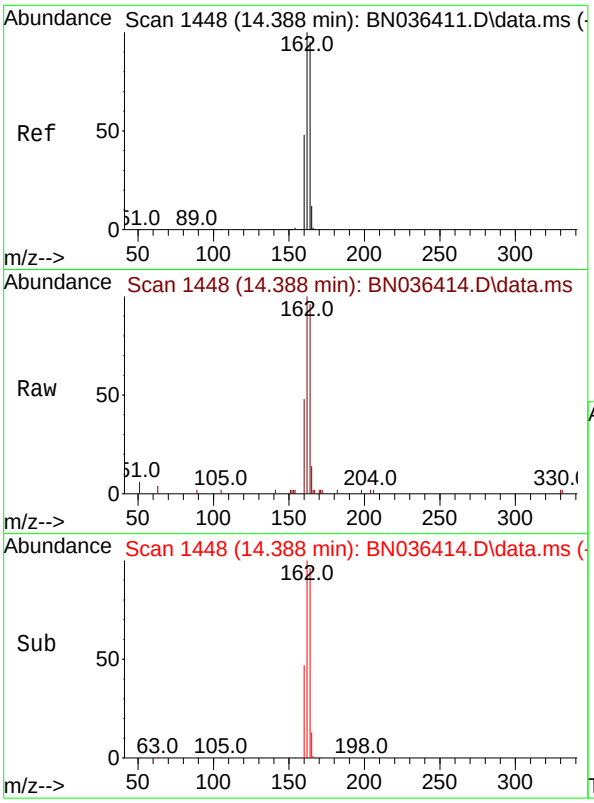


#12
2-Methylnaphthalene
Concen: 3.640 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:142 Resp: 38458

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.8	109.2
115	41.3	35.5	53.3



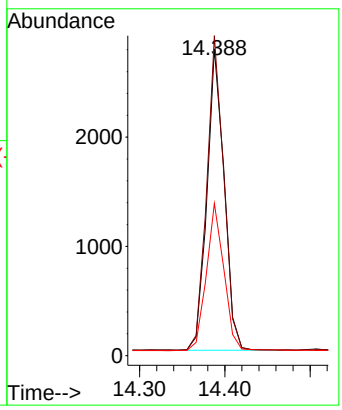


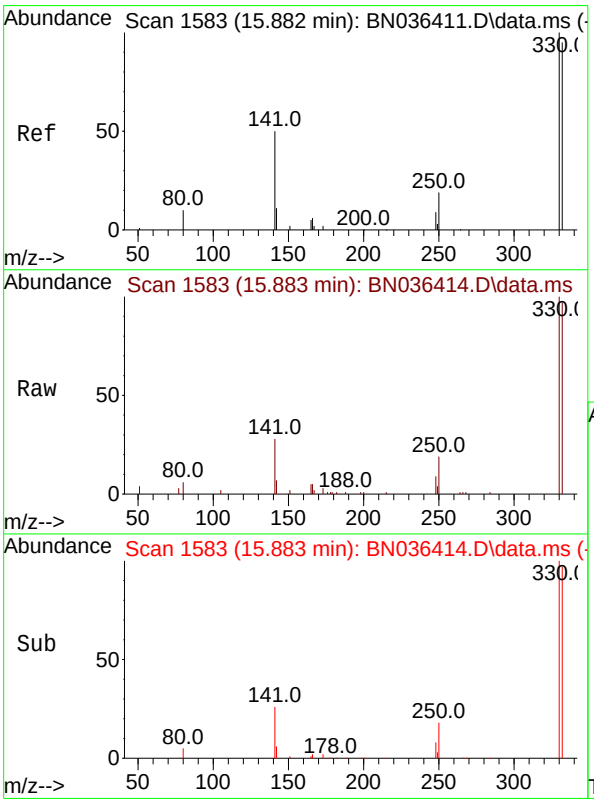
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 3870

Ion	Ratio	Lower	Upper
164	100		
162	104.3	84.1	126.1
160	49.6	41.4	62.0

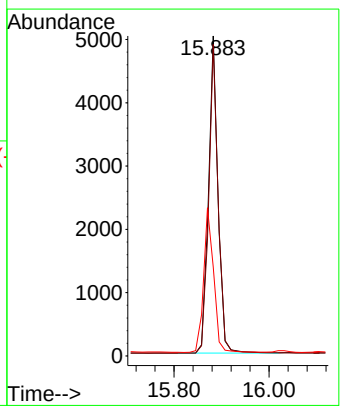


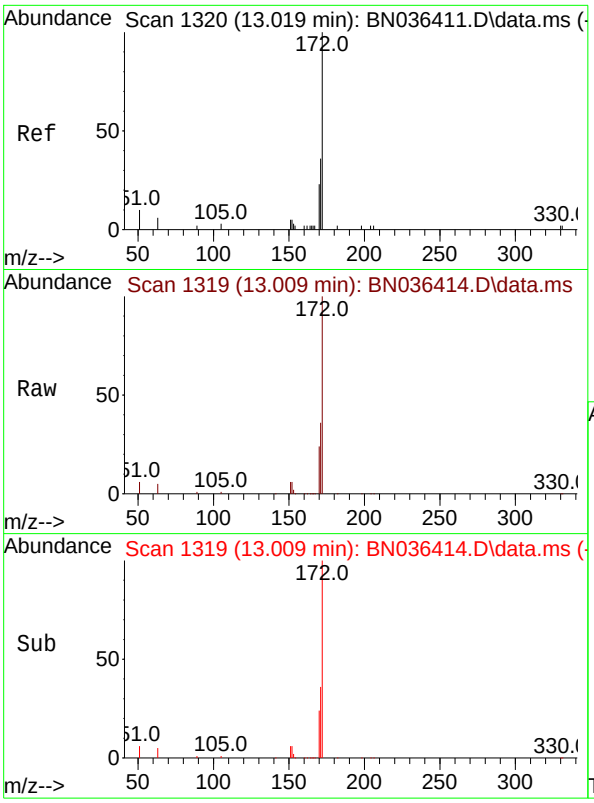


#14
2,4,6-Tribromophenol
Concen: 2.937 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:330 Resp: 7004

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.6	114.8
141	48.2	37.8	56.8



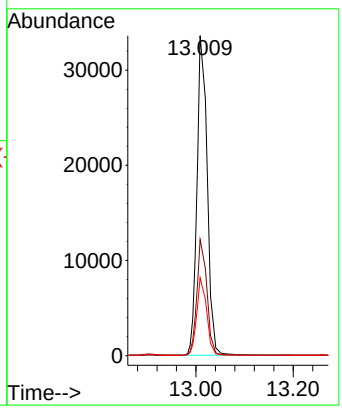


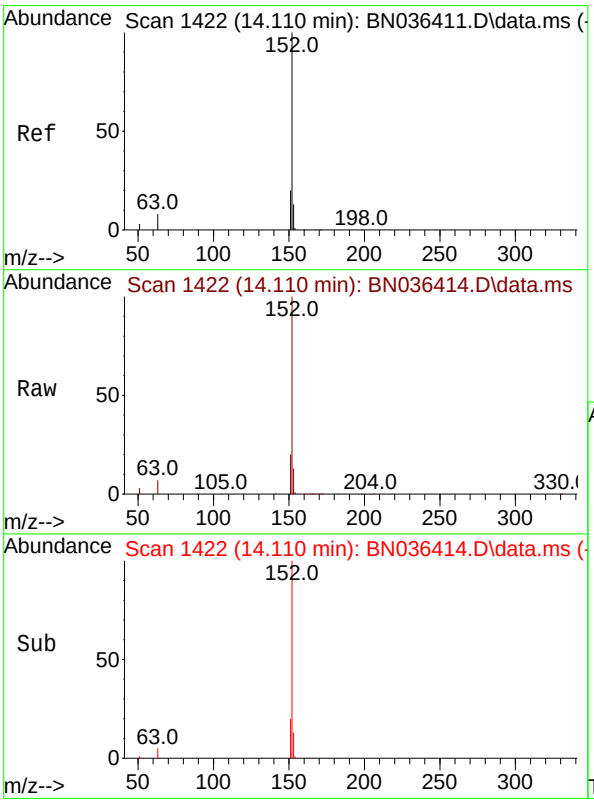
#15
2-Fluorobiphenyl
Concen: 3.260 ng
RT: 13.009 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 53807

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.6	44.4
170	24.4	19.8	29.6

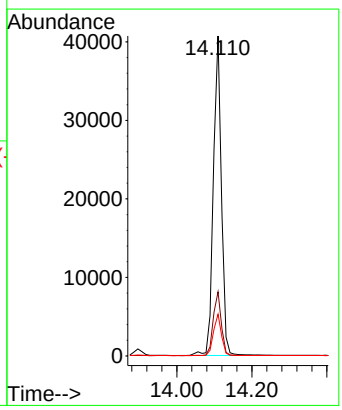


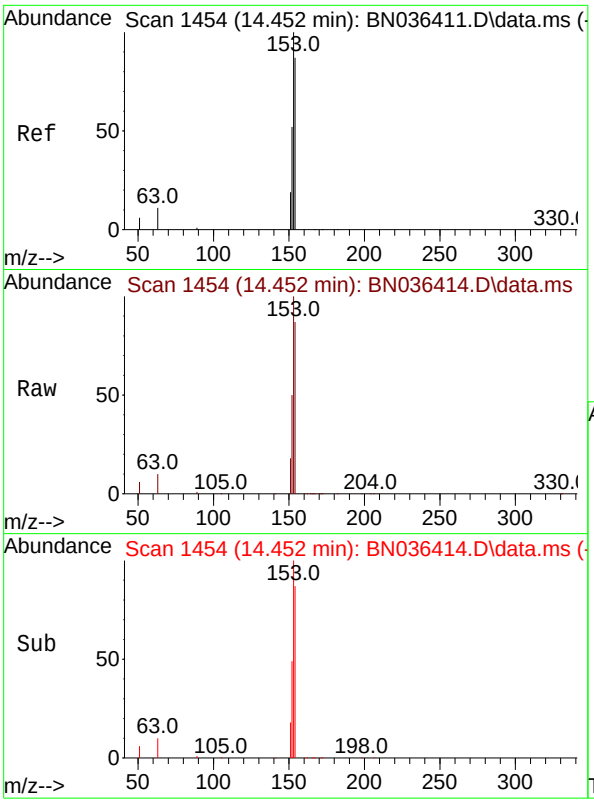


#16
Acenaphthylene
Concen: 3.395 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:152 Resp: 60797

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.9	10.2	15.2



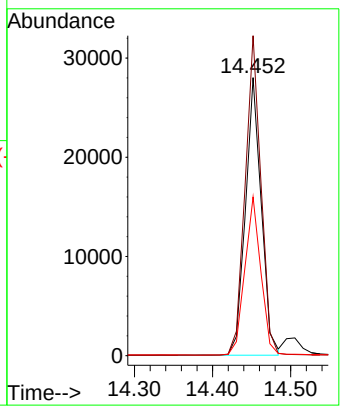


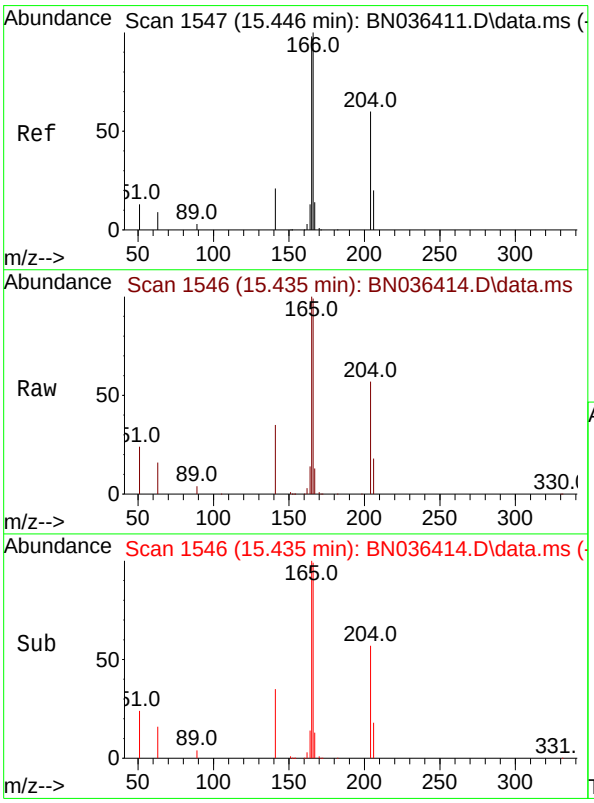
#17
Acenaphthene
Concen: 3.214 ng
RT: 14.452 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 39414

Ion	Ratio	Lower	Upper
154	100		
153	115.0	93.3	139.9
152	57.9	48.8	73.2

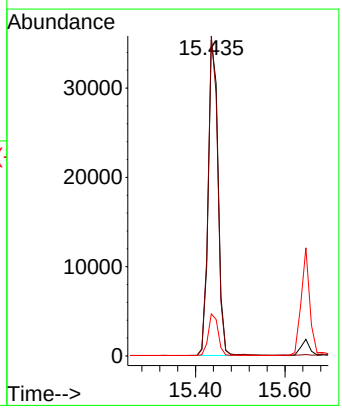


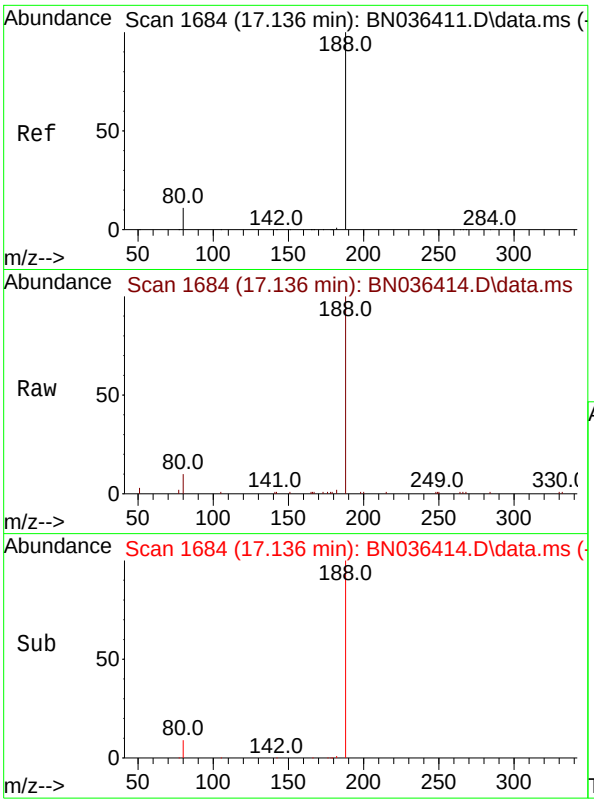


#18
Fluorene
Concen: 3.589 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:166 Resp: 56634

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.5	119.3
167	12.6	10.4	15.6



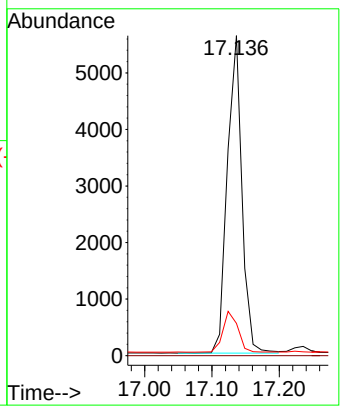


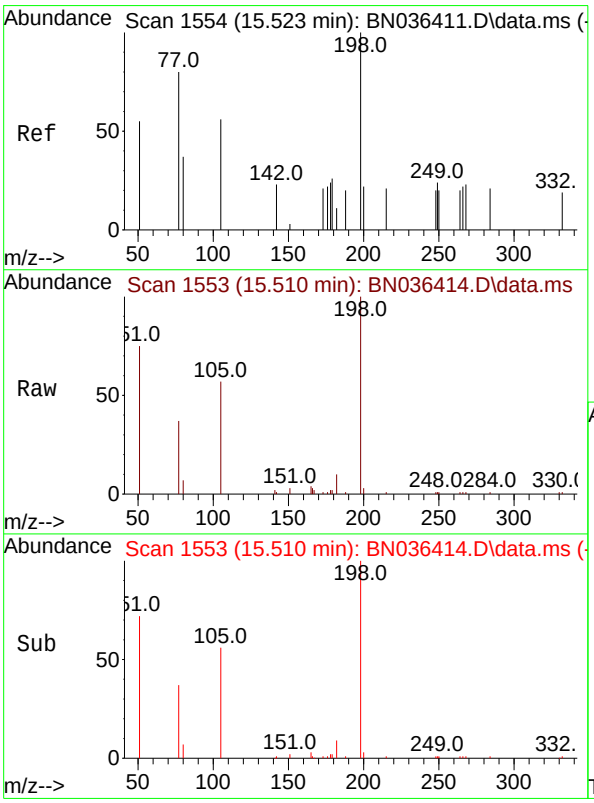
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 8443

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	9.8	14.6

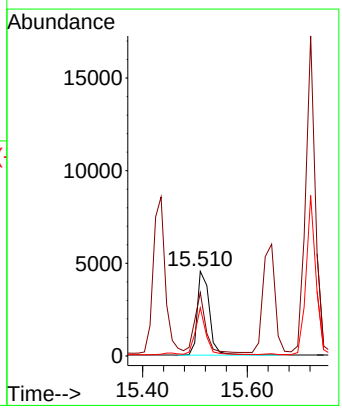


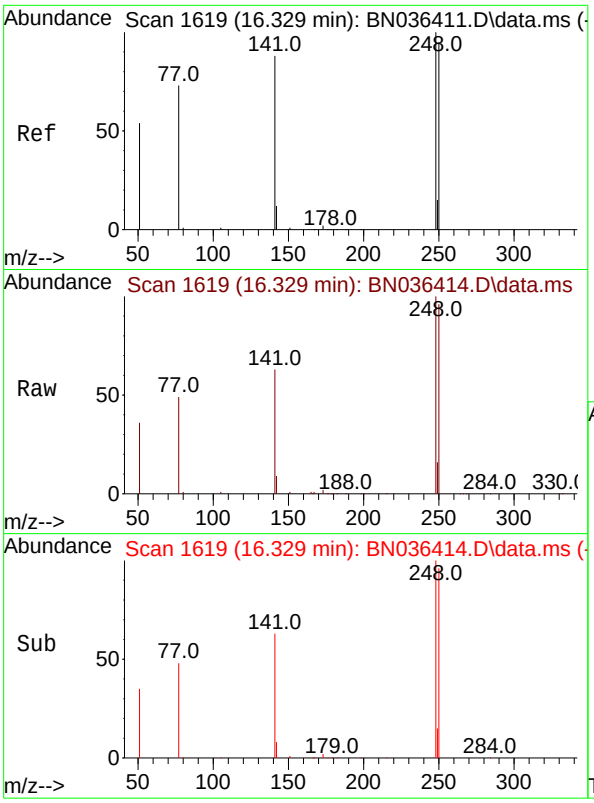


#20
4,6-Dinitro-2-methylphenol
Concen: 3.841 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:198 Resp: 7256

Ion	Ratio	Lower	Upper
198	100		
51	74.8	86.6	129.8#
105	57.0	57.5	86.3#



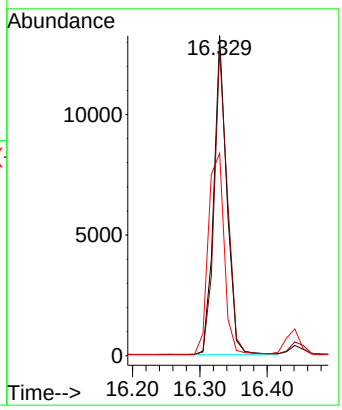


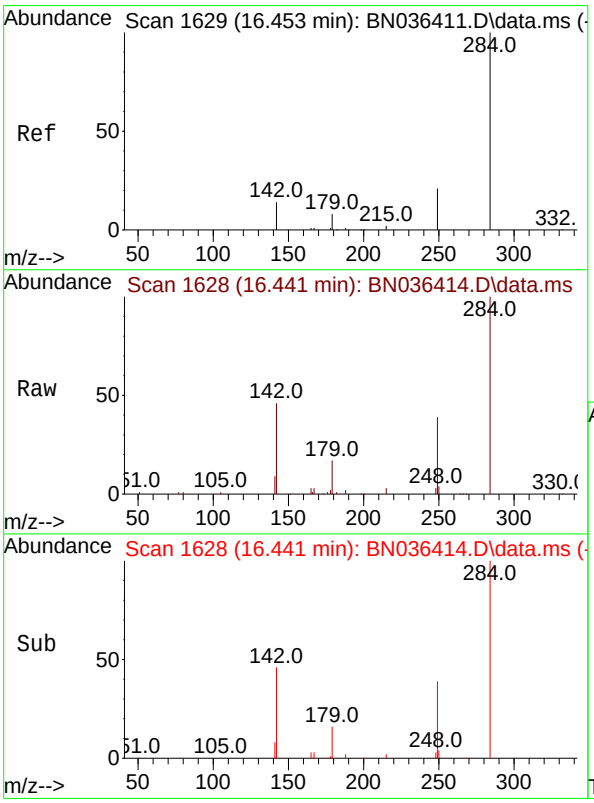
#21
4-Bromophenyl-phenylether
Concen: 3.081 ng
RT: 16.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 17824

Ion	Ratio	Lower	Upper
248	100		
250	95.9	76.1	114.1
141	63.3	71.7	107.5#

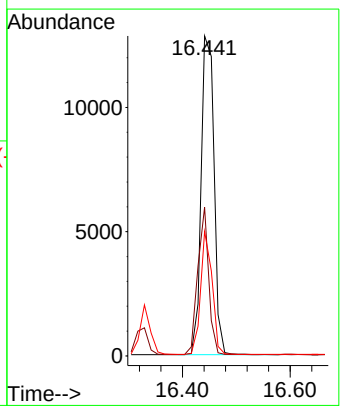


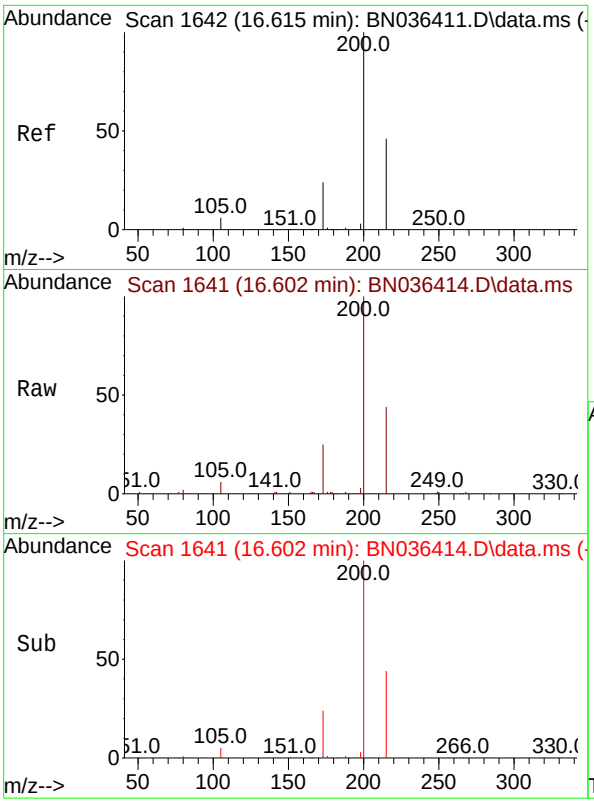


#22
Hexachlorobenzene
Concen: 2.832 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:284 Resp: 21378

Ion	Ratio	Lower	Upper
284	100		
142	39.4	33.4	50.0
249	34.3	28.6	43.0



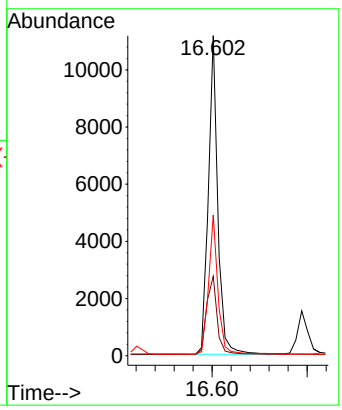


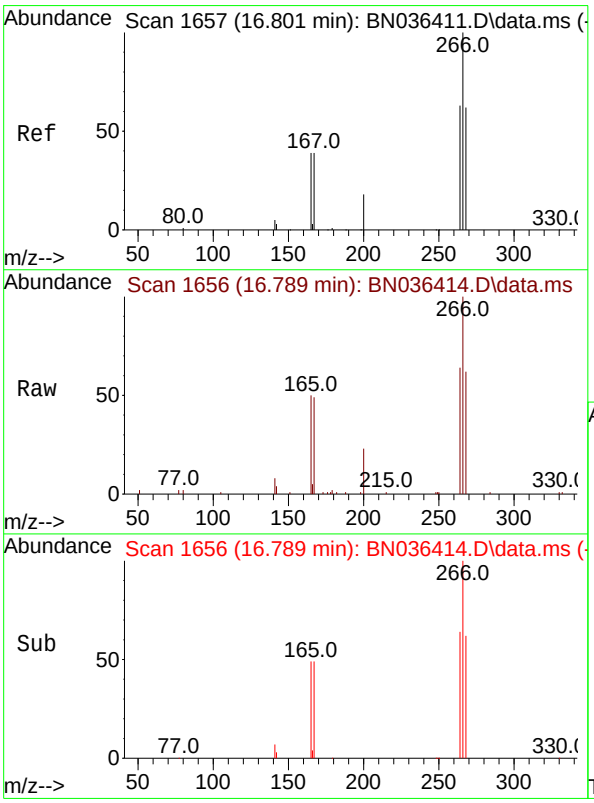
#23
Atrazine
Concen: 3.634 ng
RT: 16.602 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 15456

Ion	Ratio	Lower	Upper
200	100		
173	24.8	23.2	34.8
215	44.0	40.0	60.0

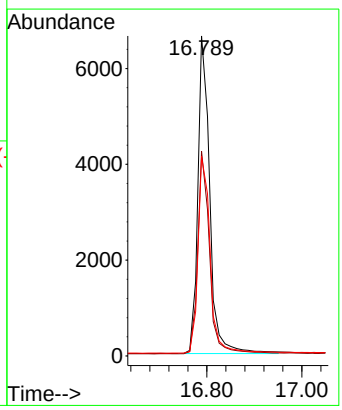


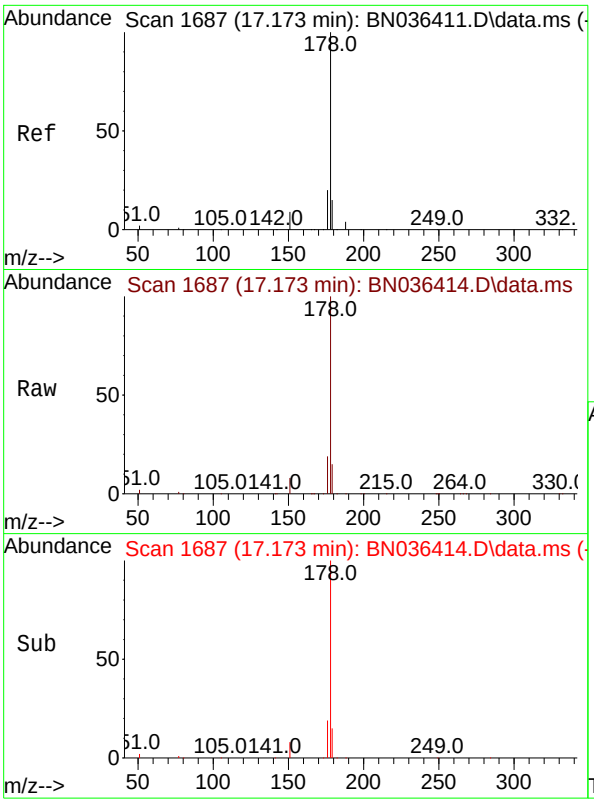


#24
Pentachlorophenol
Concen: 3.481 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:266 Resp: 11492

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.6	76.0
268	64.3	51.9	77.9



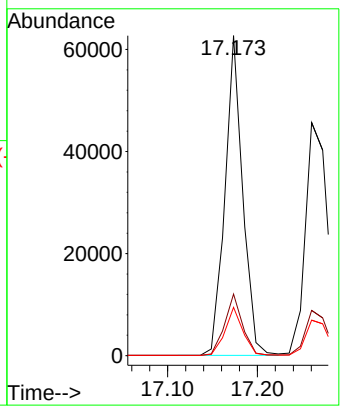


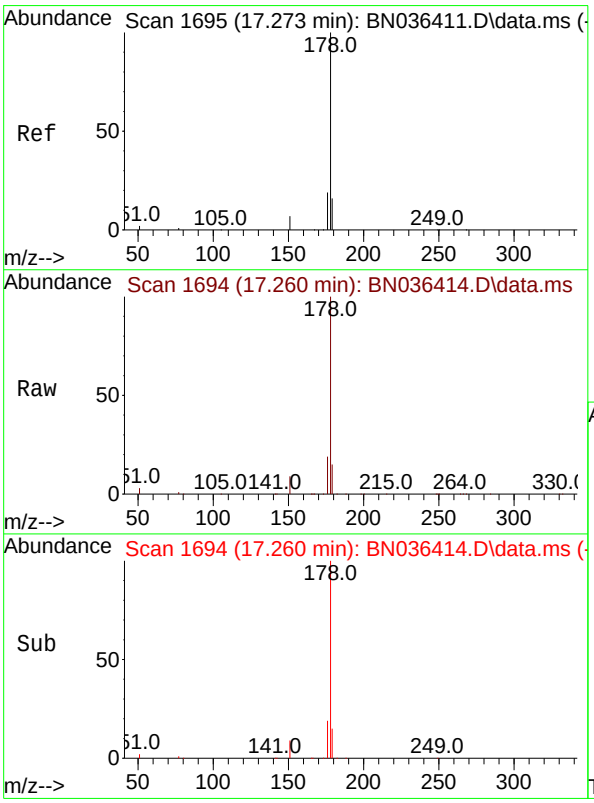
#25
Phenanthrene
Concen: 3.473 ng
RT: 17.173 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 85950

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.1	12.4	18.6

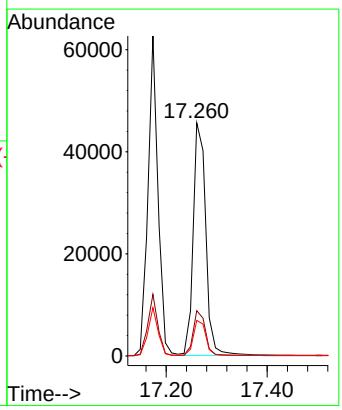


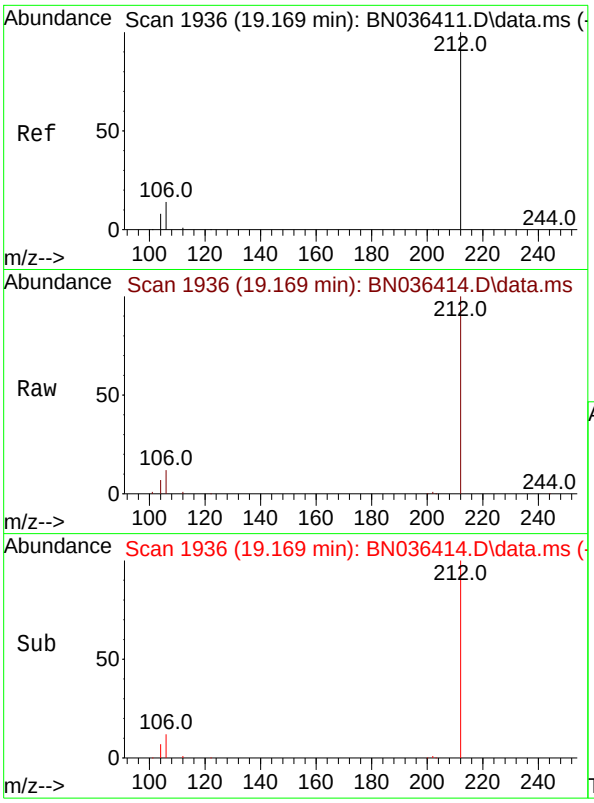


#26
Anthracene
Concen: 3.504 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:178 Resp: 78802

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	15.2	12.4	18.6



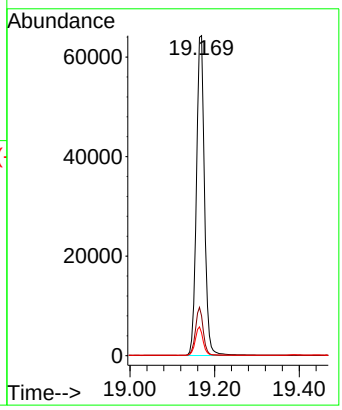


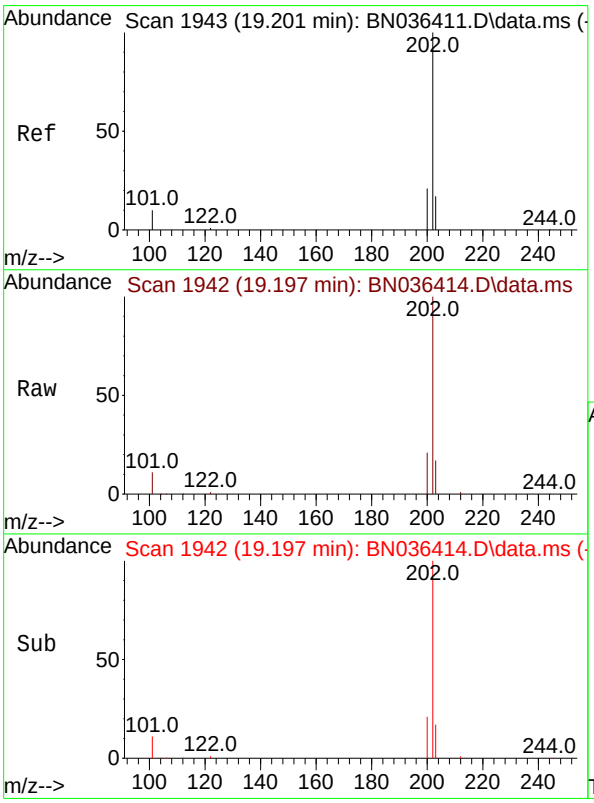
#27
Fluoranthene-d10
Concen: 3.911 ng
RT: 19.169 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 84968

Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.5	17.3
104	8.6	7.1	10.7

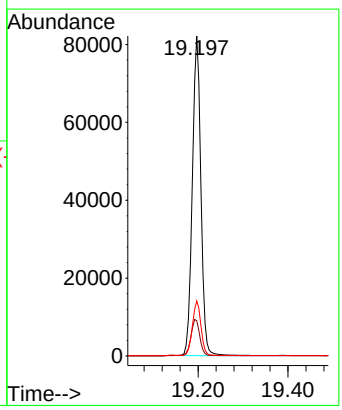


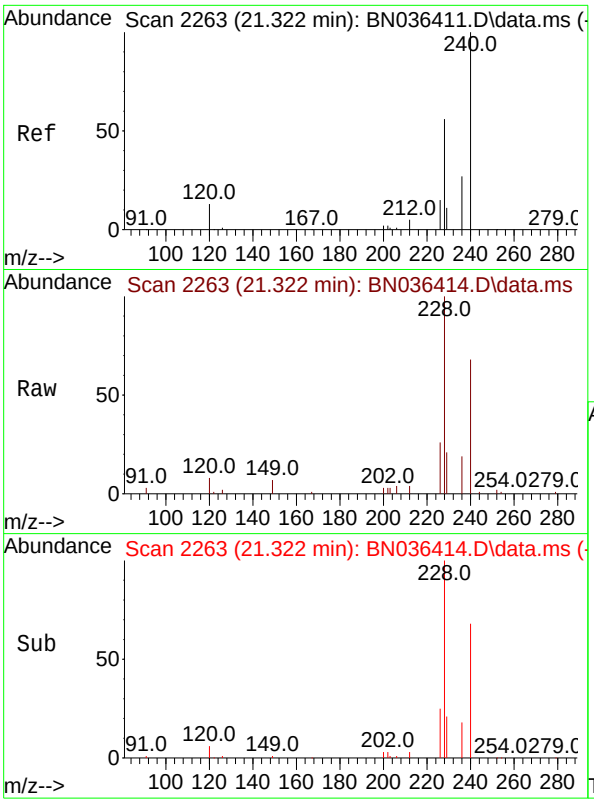


#28
Fluoranthene
Concen: 3.700 ng
RT: 19.197 min Scan# 1942
Delta R.T. -0.005 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:202 Resp: 108527

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.2	13.8
203	17.1	13.4	20.0



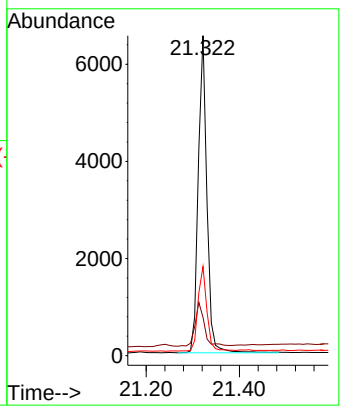


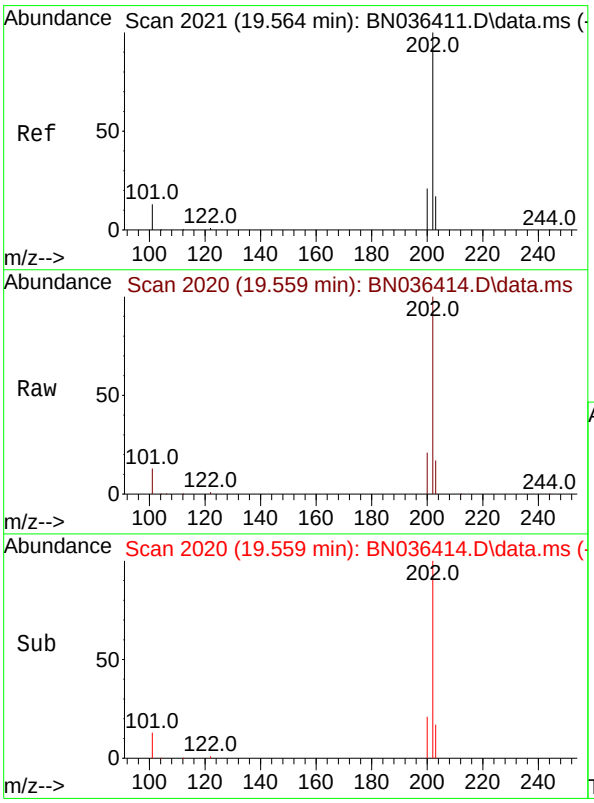
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.322 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 8450

Ion	Ratio	Lower	Upper
240	100		
120	12.0	13.3	19.9#
236	27.8	23.0	34.6

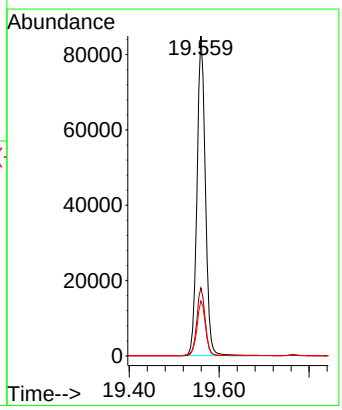


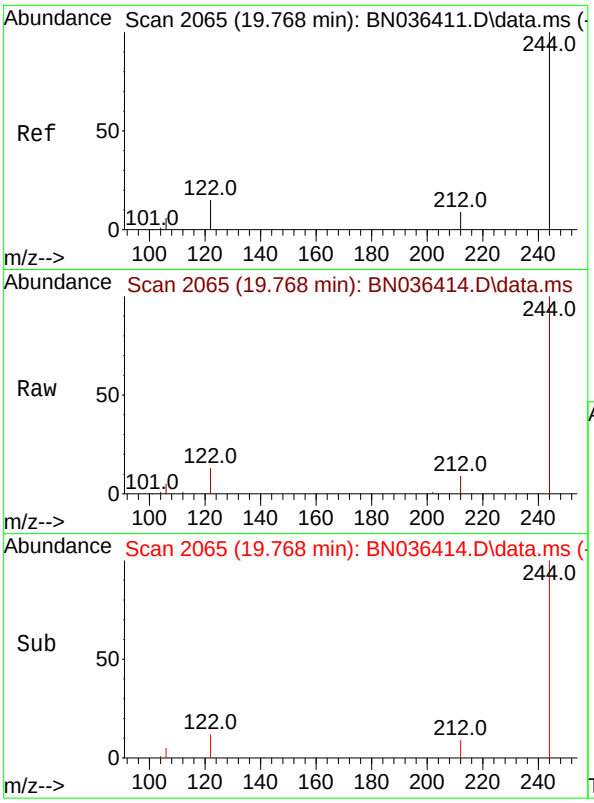


#30
Pyrene
Concen: 3.262 ng
RT: 19.559 min Scan# 2020
Delta R.T. -0.005 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:202 Resp: 110153

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.7	13.9	20.9



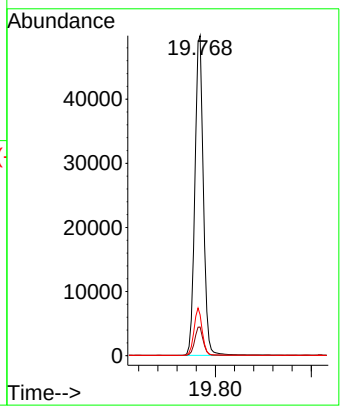


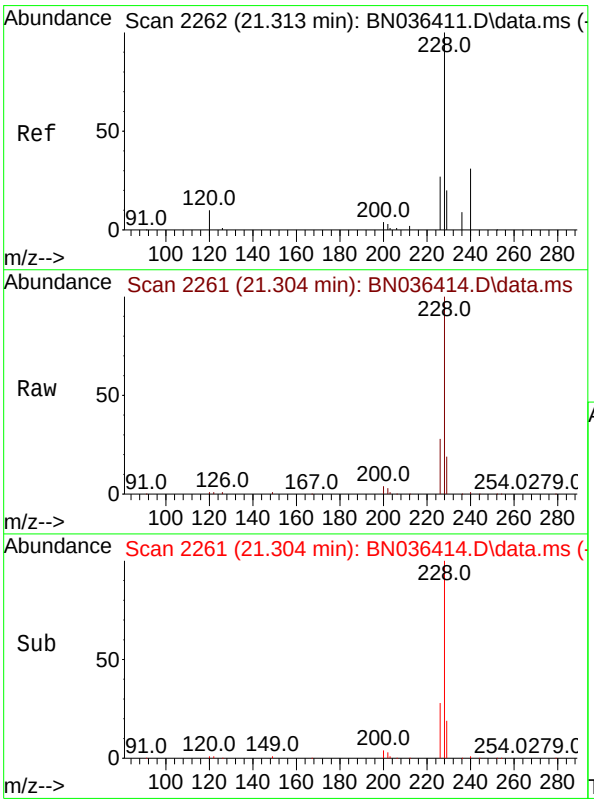
#31
Terphenyl-d14
Concen: 3.526 ng
RT: 19.768 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 61695

Ion	Ratio	Lower	Upper
244	100		
212	8.9	8.1	12.1
122	12.8	12.8	19.2#

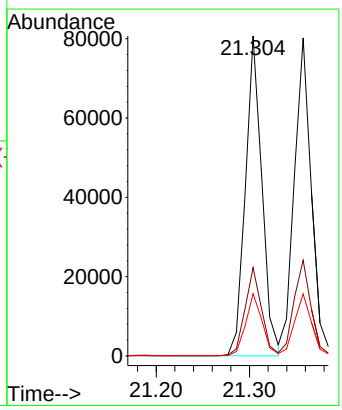


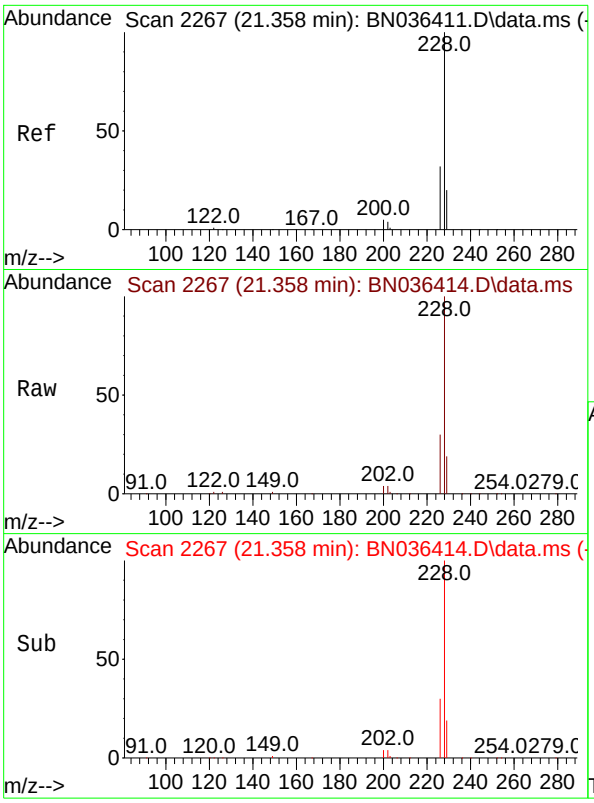


#32
Benzo(a)anthracene
Concen: 3.312 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:228 Resp: 99445

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.2
229	19.5	16.5	24.7



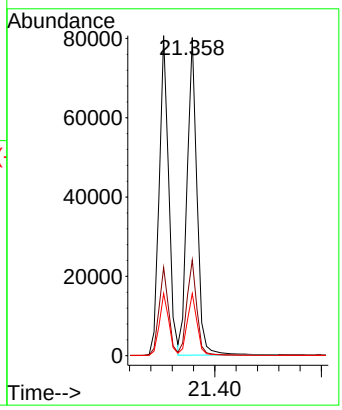


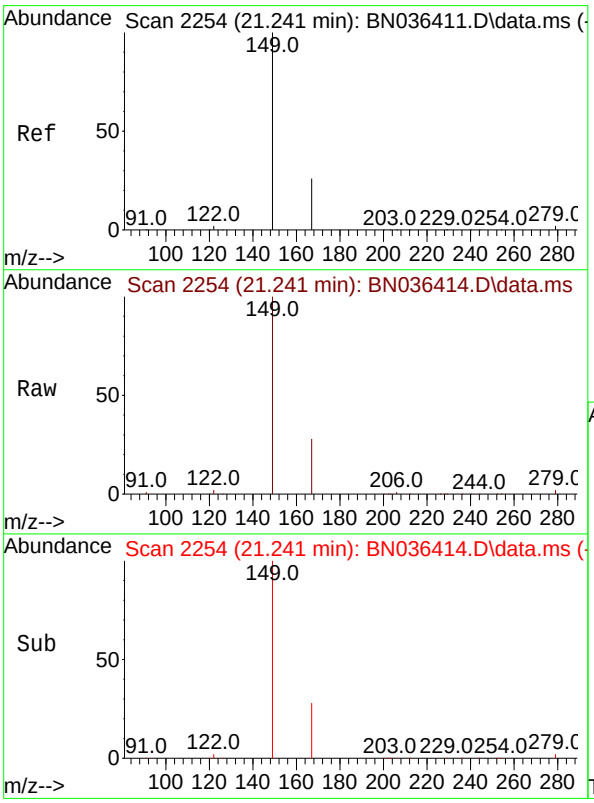
#33
Chrysene
Concen: 3.354 ng
RT: 21.358 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 103234

Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.5	38.3
229	19.5	16.4	24.6

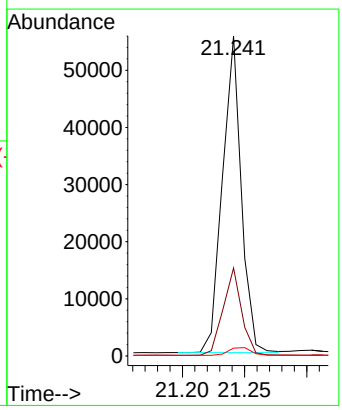


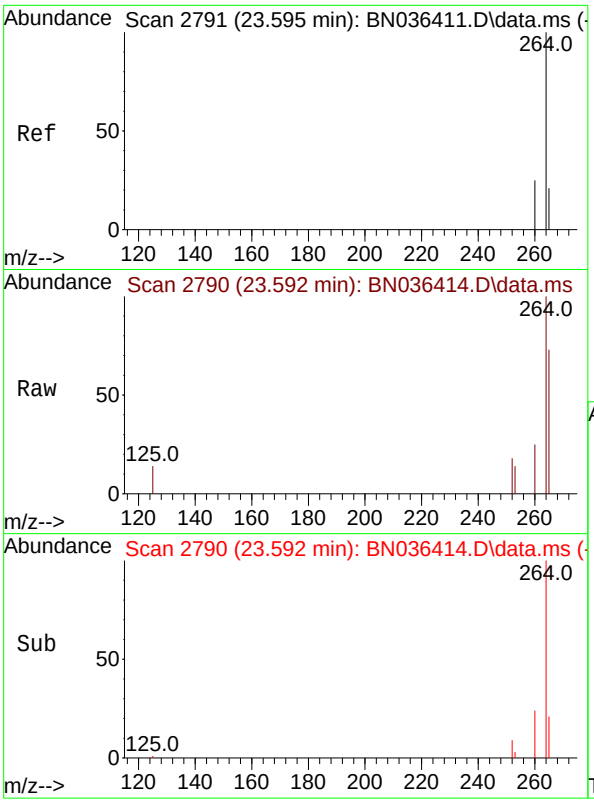


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.480 ng
RT: 21.241 min Scan# 2254
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:149 Resp: 58234

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.2	31.8
279	3.0	2.7	4.1



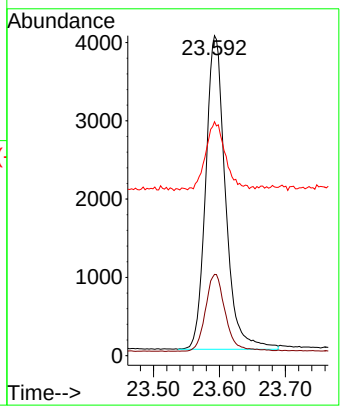


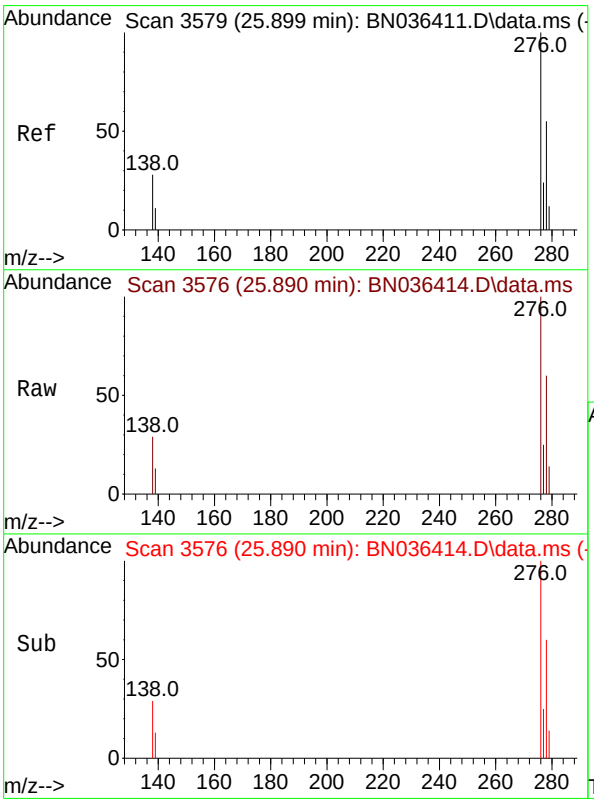
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.592 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 8327

Ion	Ratio	Lower	Upper
264	100		
260	25.4	20.9	31.3
265	73.1	60.7	91.1

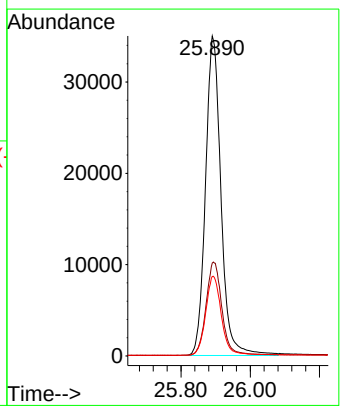


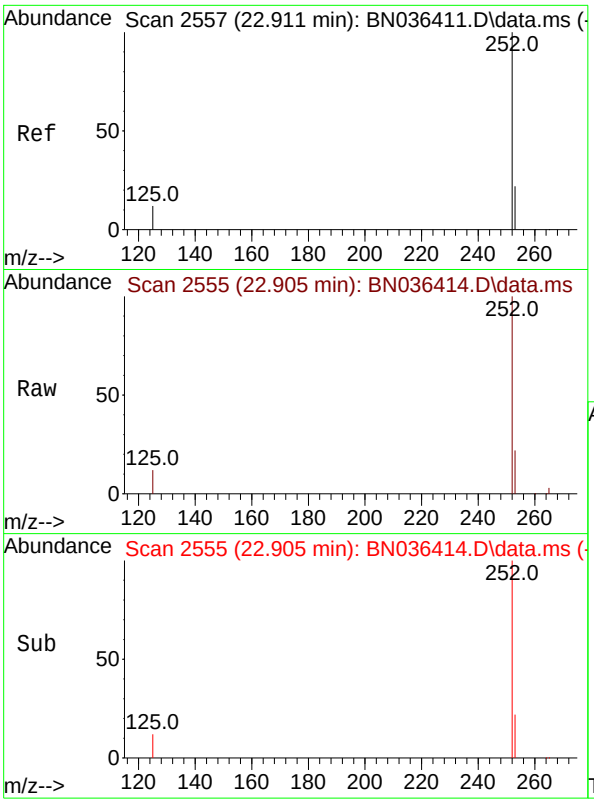


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.320 ng
RT: 25.890 min Scan# 3576
Delta R.T. -0.009 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:276 Resp: 108596

Ion	Ratio	Lower	Upper
276	100		
138	29.9	22.2	33.2
277	25.1	19.8	29.6



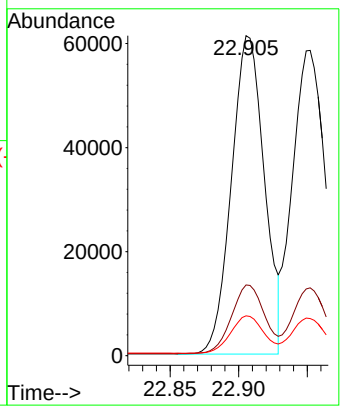


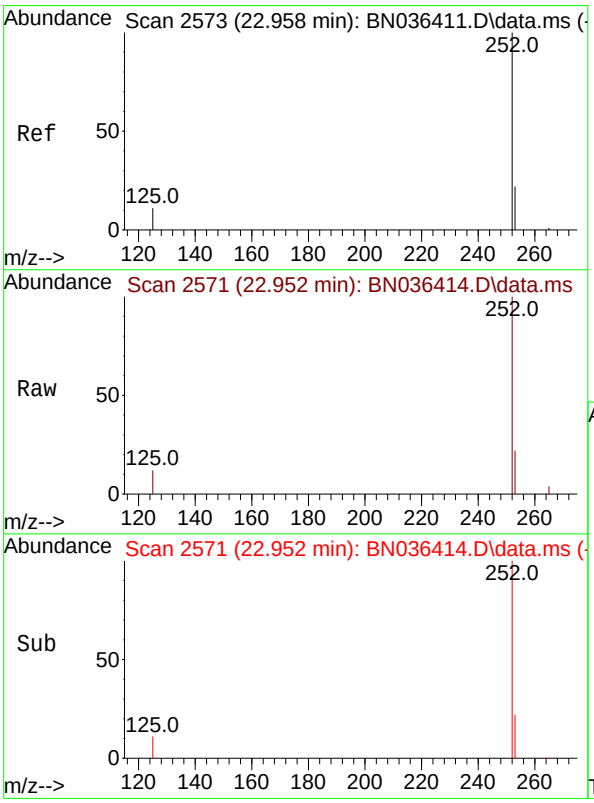
#37
Benzo(b)fluoranthene
Concen: 3.445 ng
RT: 22.905 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 101833

Ion	Ratio	Lower	Upper
252	100		
253	22.1	21.9	32.9
125	12.5	15.0	22.6#

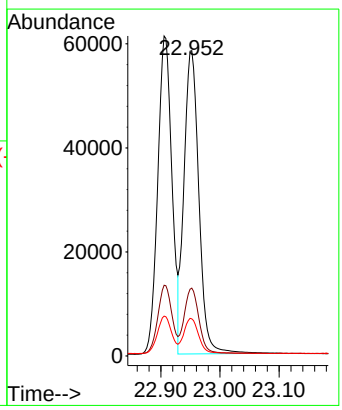


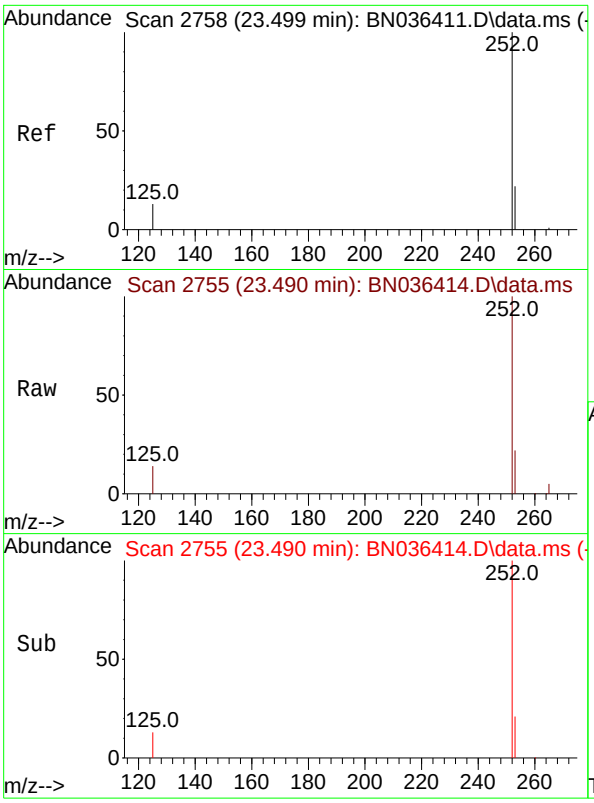


#38
Benzo(k)fluoranthene
Concen: 3.385 ng
RT: 22.952 min Scan# 2571
Delta R.T. -0.006 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:252 Resp: 102040

Ion	Ratio	Lower	Upper
252	100		
253	22.2	22.2	33.4#
125	12.2	15.0	22.4#



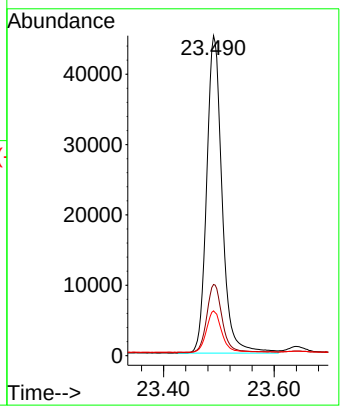


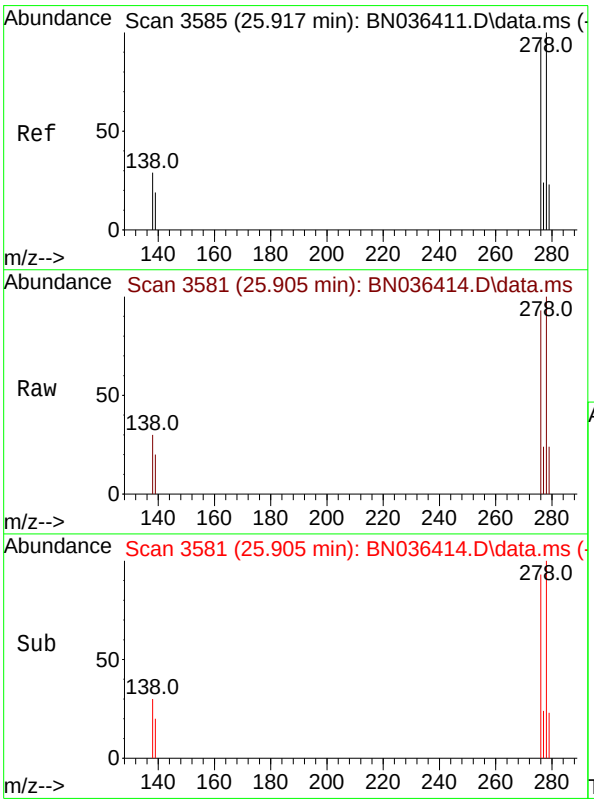
#39
Benzo(a)pyrene
Concen: 3.437 ng
RT: 23.490 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 87191

Ion	Ratio	Lower	Upper
252	100		
253	22.2	24.4	36.6#
125	14.0	18.2	27.2#

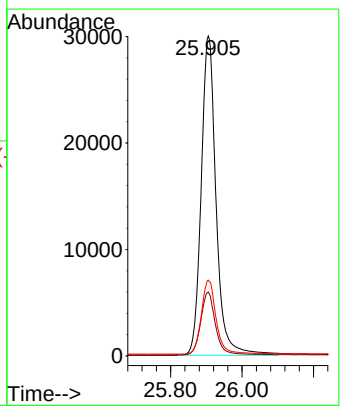


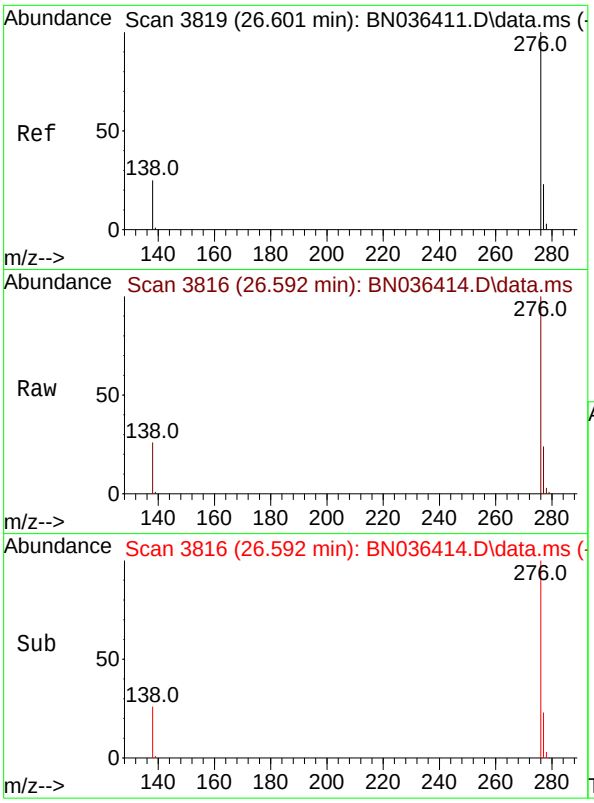


#40
Dibenzo(a,h)anthracene
Concen: 3.343 ng
RT: 25.905 min Scan# 3581
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:278 Resp: 86887

Ion	Ratio	Lower	Upper
278	100		
139	20.0	18.5	27.7
279	23.7	24.8	37.2#





#41
Benzo(g,h,i)perylene
Concen: 3.269 ng
RT: 26.592 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 93260

Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.7	31.1
138	25.9	21.8	32.6