Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036409.D
Acq On : 10 Feb 2025 12:25
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Feb 11 00:34:59 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

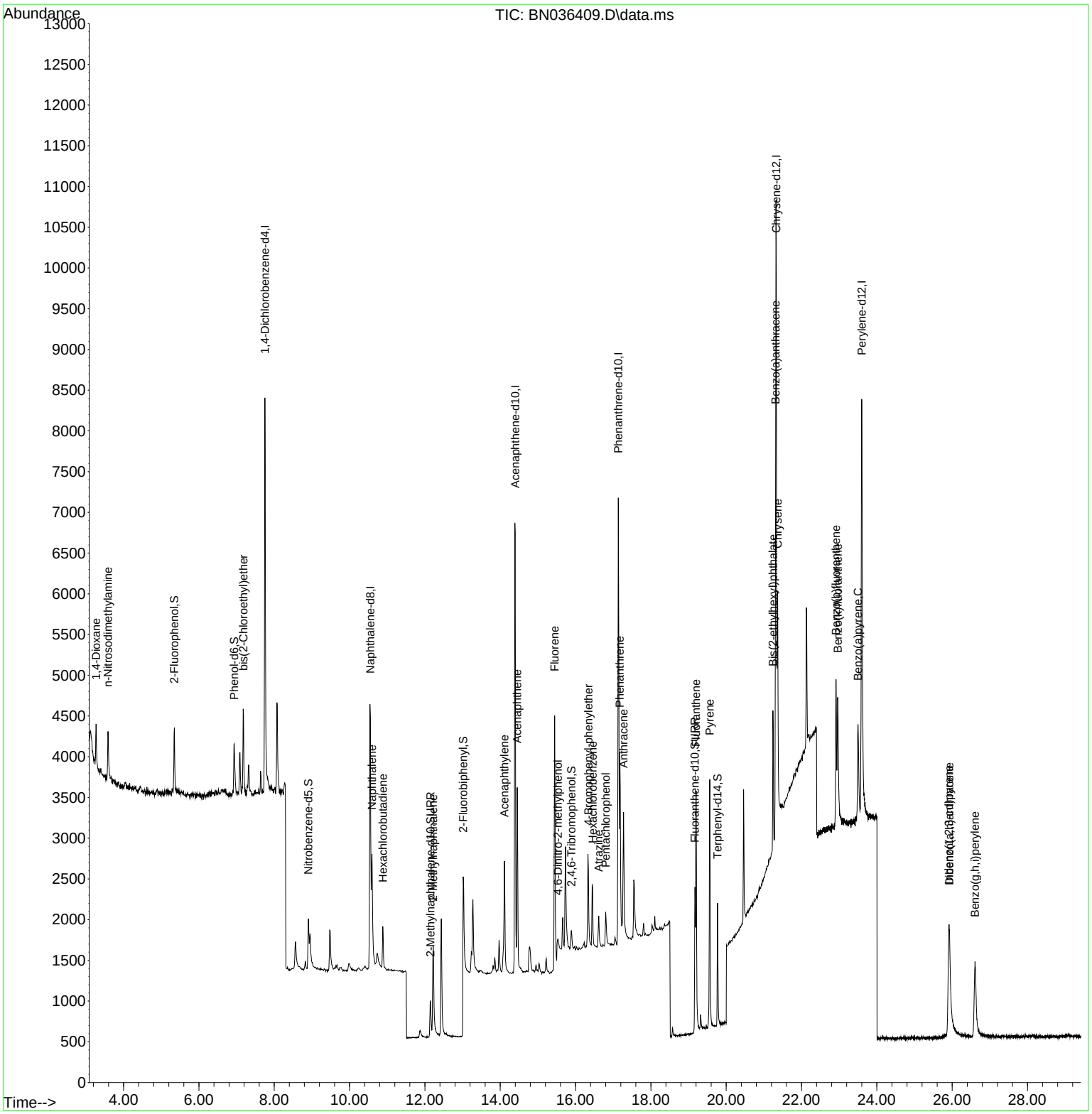
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.753	152	2370	0.400	ng		0.00
7) Naphthalene-d8	10.552	136	5687	0.400	ng		# 0.01
13) Acenaphthene-d10	14.398	164	3837	0.400	ng		0.01
19) Phenanthrene-d10	17.136	188	8539	0.400	ng		0.00
29) Chrysene-d12	21.331	240	8027	0.400	ng		# 0.00
35) Perylene-d12	23.598	264	8068	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.348	112	598	0.099	ng		0.00
5) Phenol-d6	6.937	99	672	0.095	ng		0.00
8) Nitrobenzene-d5	8.907	82	711	0.134	ng		0.00
11) 2-Methylnaphthalene-d10	12.146	152	920	0.118	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	188	0.080	ng		0.01
15) 2-Fluorobiphenyl	13.019	172	1352	0.083	ng		0.00
27) Fluoranthene-d10	19.169	212	2368	0.108	ng		0.00
31) Terphenyl-d14	19.773	244	1725	0.104	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.268	88	329	0.126	ng		93
3) n-Nitrosodimethylamine	3.586	42	537	0.114	ng	#	96
6) bis(2-Chloroethyl)ether	7.183	93	819	0.140	ng		99
9) Naphthalene	10.594	128	1990	0.123	ng	#	91
10) Hexachlorobutadiene	10.883	225	454	0.089	ng	#	99
12) 2-Methylnaphthalene	12.217	142	1185	0.116	ng		96
16) Acenaphthylene	14.110	152	1733	0.098	ng		99
17) Acenaphthene	14.452	154	1194	0.098	ng		98
18) Fluorene	15.446	166	1627	0.104	ng		99
20) 4,6-Dinitro-2-methylph...	15.535	198	151	0.079	ng	#	36
21) 4-Bromophenyl-phenylether	16.342	248	518	0.089	ng	#	81
22) Hexachlorobenzene	16.453	284	651	0.085	ng		99
23) Atrazine	16.615	200	419	0.097	ng	#	85
24) Pentachlorophenol	16.801	266	298	0.089	ng		97
25) Phenanthrene	17.173	178	2633	0.105	ng		100
26) Anthracene	17.273	178	2113	0.093	ng		96
28) Fluoranthene	19.201	202	3077	0.104	ng		99
30) Pyrene	19.564	202	3179	0.099	ng		99
32) Benzo(a)anthracene	21.313	228	2523	0.088	ng		96
33) Chrysene	21.366	228	2908	0.099	ng		97
34) Bis(2-ethylhexyl)phtha...	21.241	149	1810	0.114	ng		99
36) Indeno(1,2,3-cd)pyrene	25.911	276	2385	0.075	ng		98
37) Benzo(b)fluoranthene	22.917	252	2367	0.083	ng	#	67
38) Benzo(k)fluoranthene	22.961	252	2537	0.087	ng	#	65
39) Benzo(a)pyrene	23.499	252	2200	0.089	ng	#	53
40) Dibenzo(a,h)anthracene	25.928	278	1827	0.073	ng	#	62
41) Benzo(g,h,i)perylene	26.607	276	2299	0.083	ng	#	83

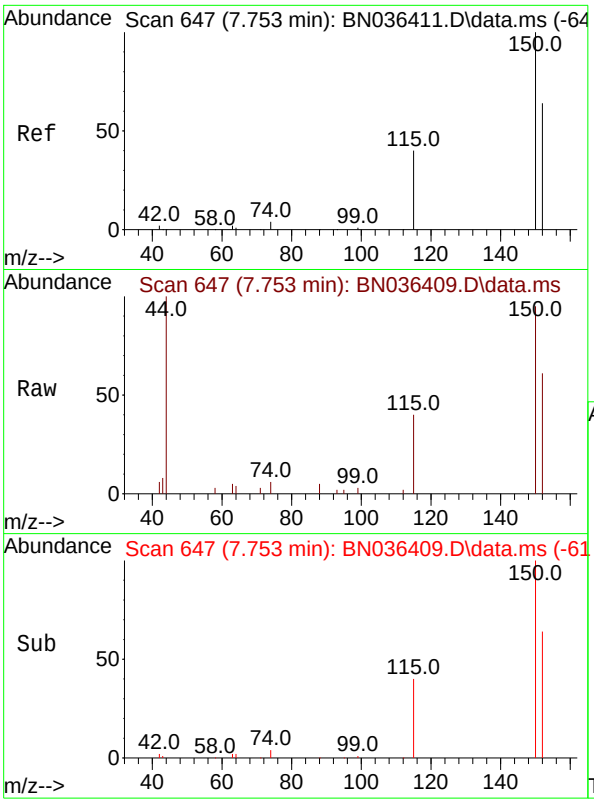
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036409.D
Acq On : 10 Feb 2025 12:25
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Feb 11 00:34:59 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



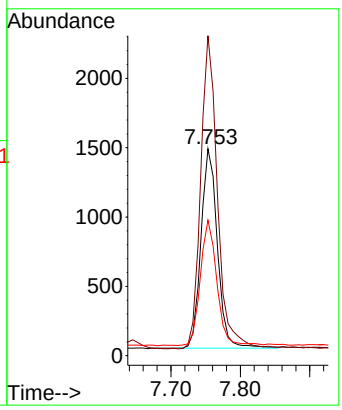


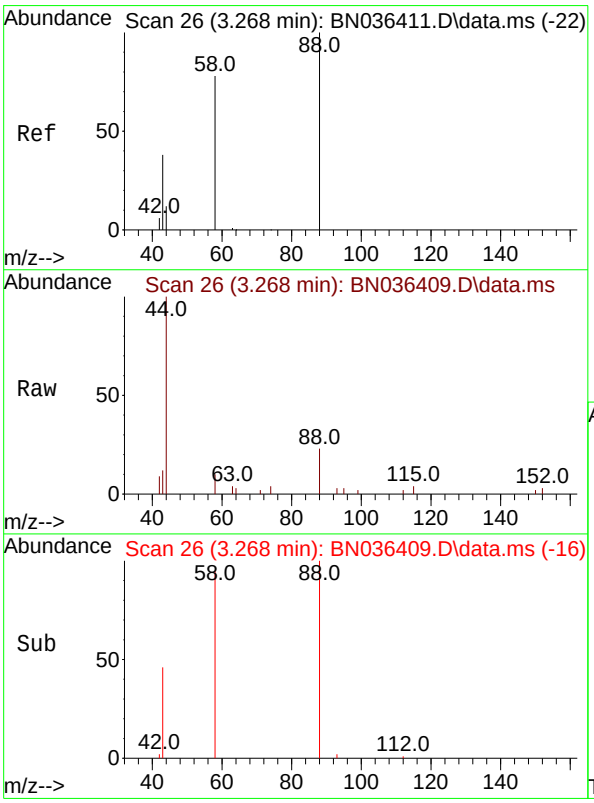
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2370

Ion	Ratio	Lower	Upper
152	100		
150	154.7	123.7	185.5
115	65.5	52.5	78.7

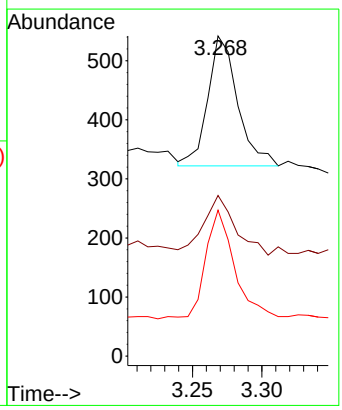


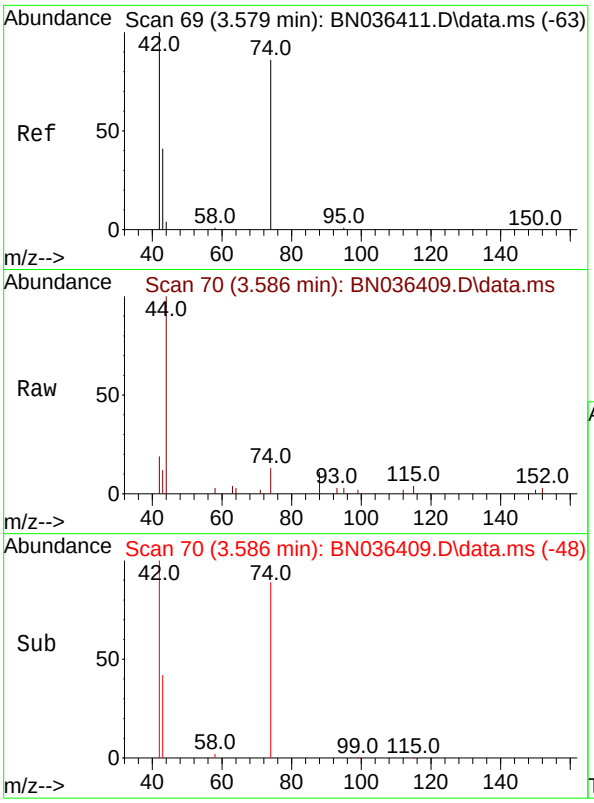


#2
1,4-Dioxane
Concen: 0.126 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 88 Resp: 329

Ion	Ratio	Lower	Upper
88	100		
43	48.9	33.7	50.5
58	81.8	68.9	103.3



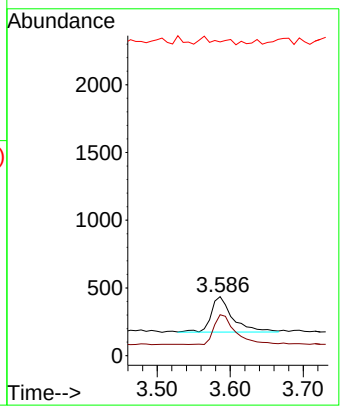


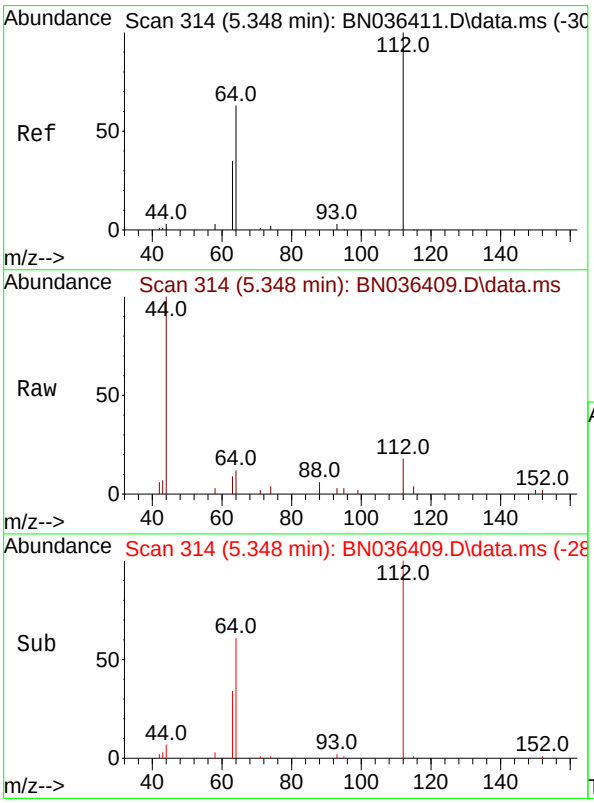
#3
n-Nitrosodimethylamine
Concen: 0.114 ng
RT: 3.586 min Scan# 7
Delta R.T. 0.007 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 537

Ion	Ratio	Lower	Upper
42	100		
74	87.0	71.8	107.6
44	5.4	7.8	11.6#

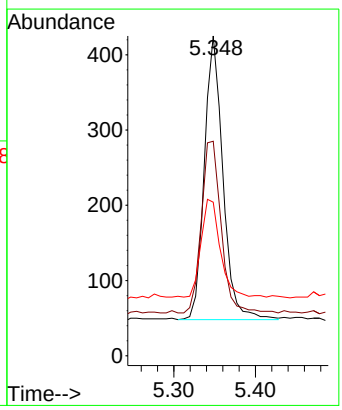


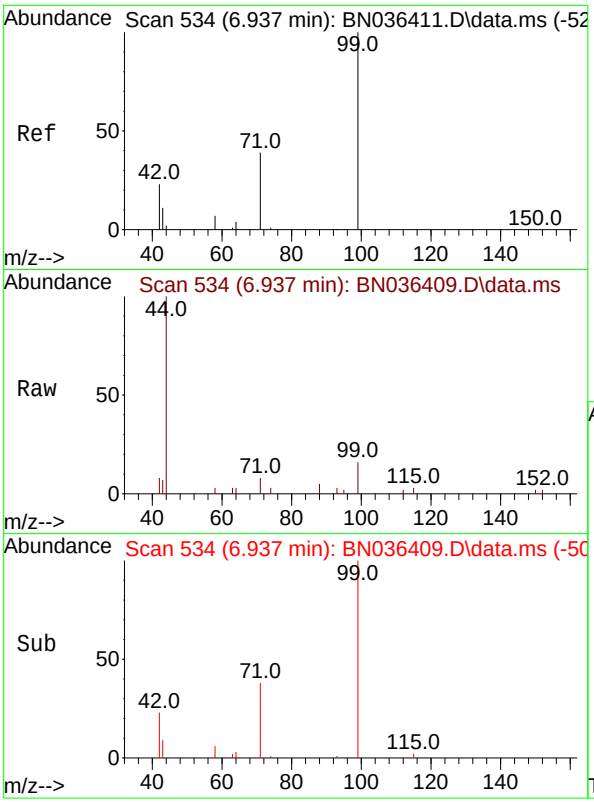


#4
2-Fluorophenol
Concen: 0.099 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:112 Resp: 598

Ion	Ratio	Lower	Upper
112	100		
64	64.2	53.4	80.0
63	36.0	30.3	45.5



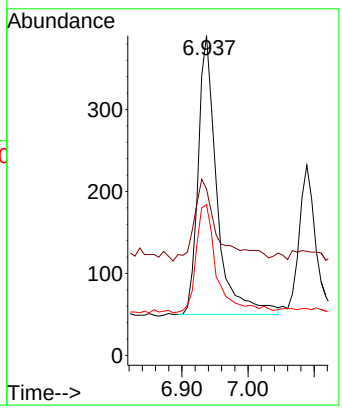


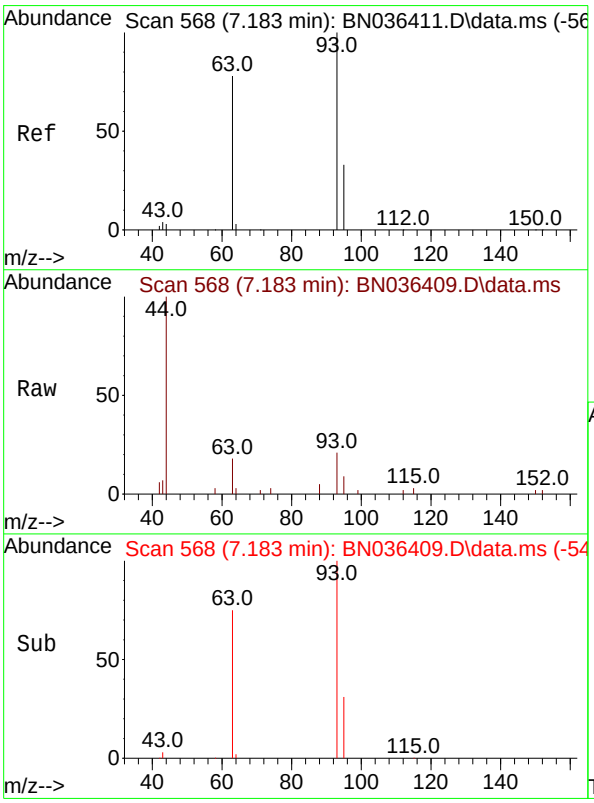
#5
Phenol-d6
Concen: 0.095 ng
RT: 6.937 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 672

Ion	Ratio	Lower	Upper
99	100		
42	36.8	21.7	32.5#
71	42.9	32.6	49.0

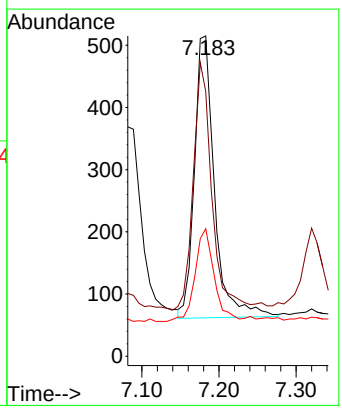


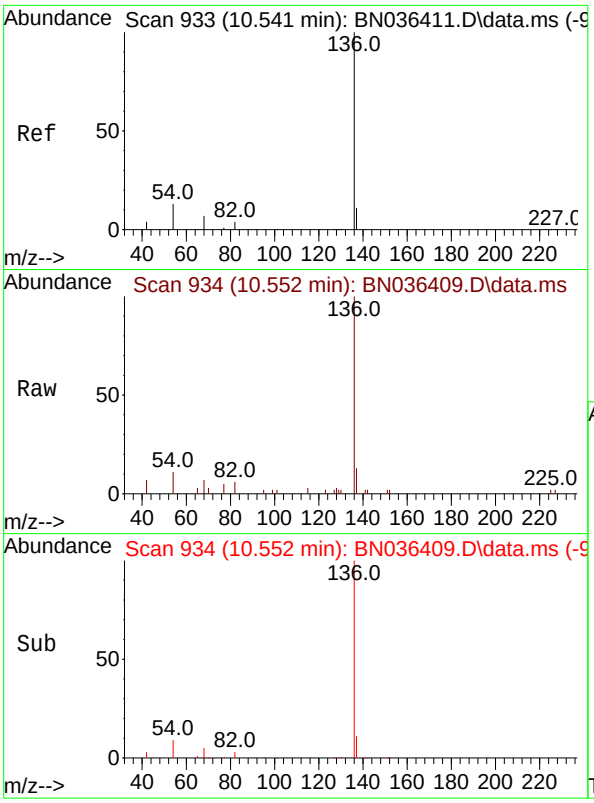


#6
bis(2-Chloroethyl)ether
Concen: 0.140 ng
RT: 7.183 min Scan# 568
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 93 Resp: 819

Ion	Ratio	Lower	Upper
93	100		
63	82.8	66.3	99.5
95	31.5	26.2	39.4



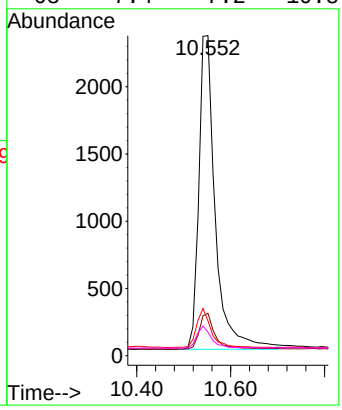


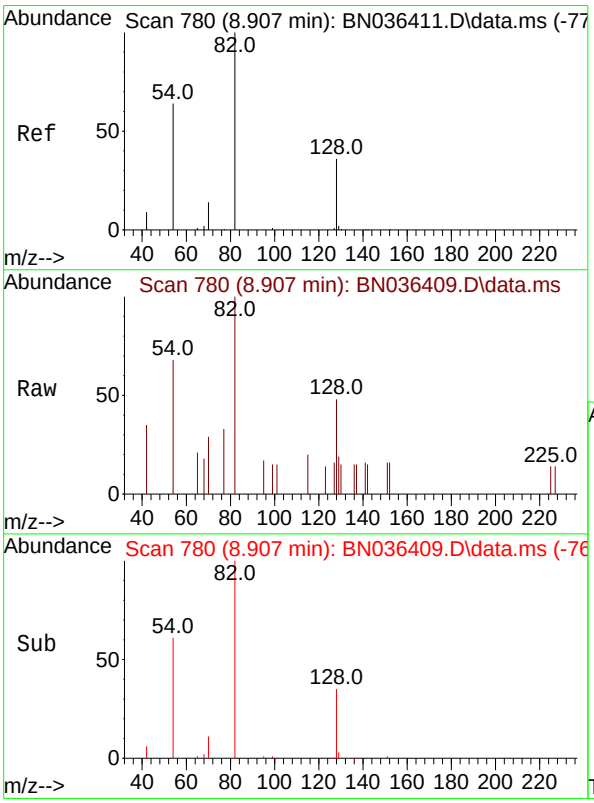
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.552 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 5687

Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.1	15.1
54	10.9	11.8	17.6#
68	7.4	7.2	10.8

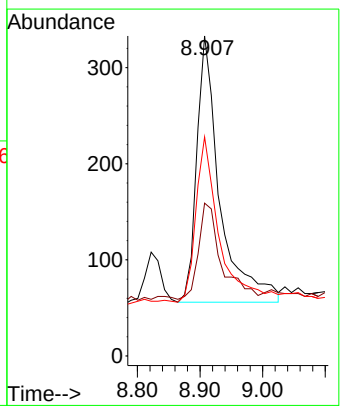


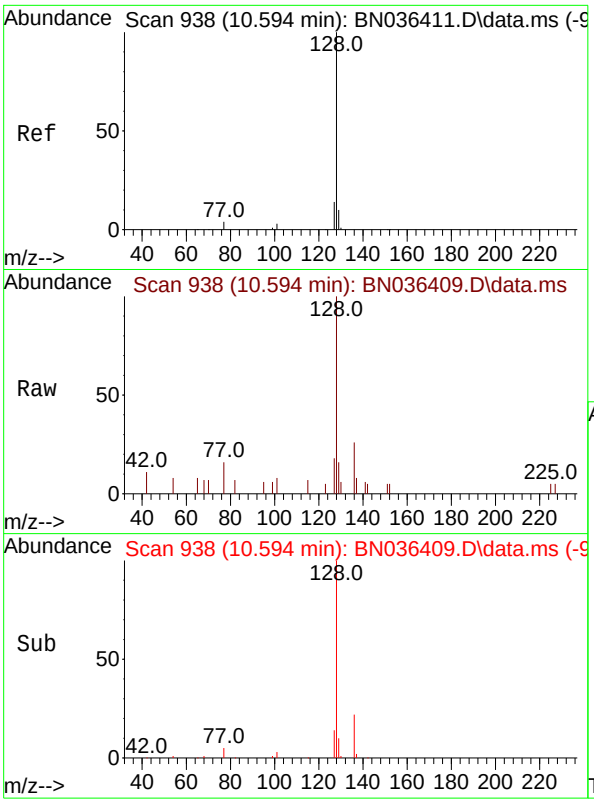


#8
Nitrobenzene-d5
Concen: 0.134 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 82 Resp: 711

Ion	Ratio	Lower	Upper
82	100		
128	47.7	31.9	47.9
54	68.5	53.1	79.7



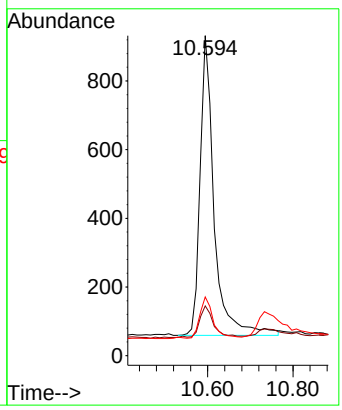


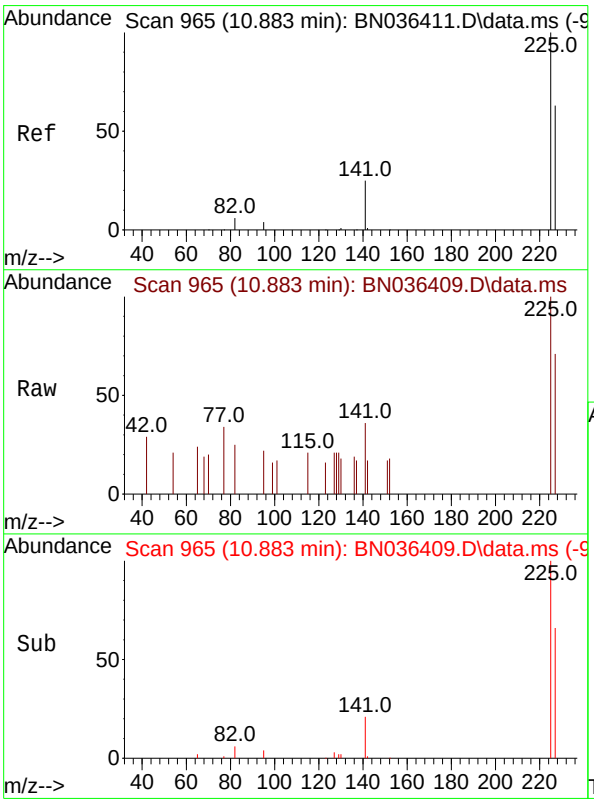
#9
Naphthalene
Concen: 0.123 ng
RT: 10.594 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1990

Ion	Ratio	Lower	Upper
128	100		
129	15.6	9.6	14.4#
127	18.3	12.0	18.0#

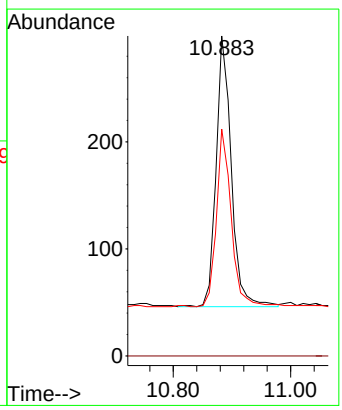


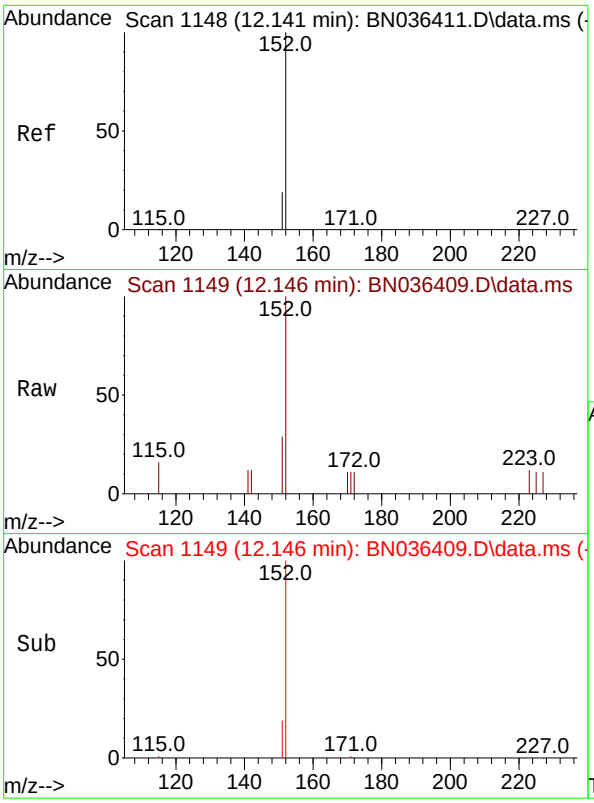


#10
Hexachlorobutadiene
Concen: 0.089 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:225 Resp: 454

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	50.9	76.3



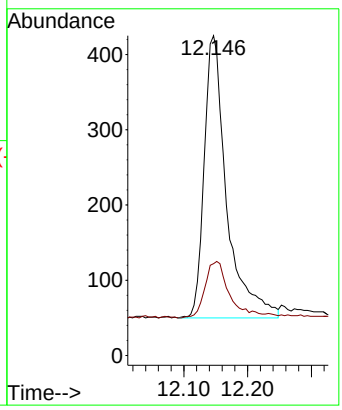


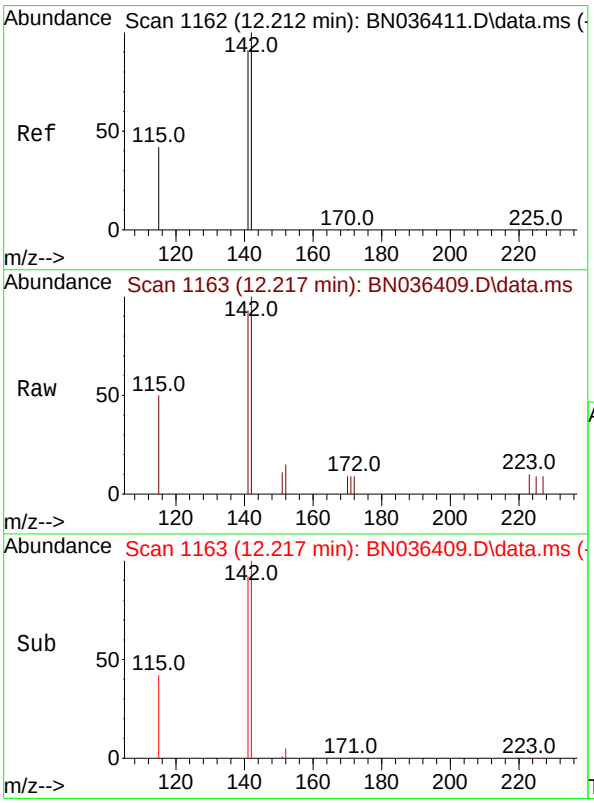
#11
2-Methylnaphthalene-d10
Concen: 0.118 ng
RT: 12.146 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 920

Ion	Ratio	Lower	Upper
152	100		
151	21.6	16.6	25.0

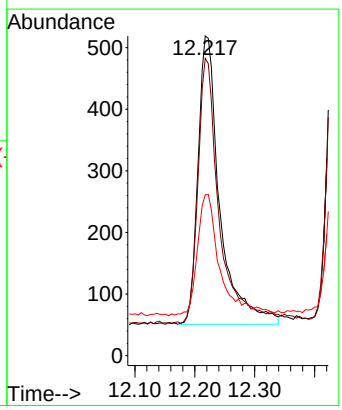


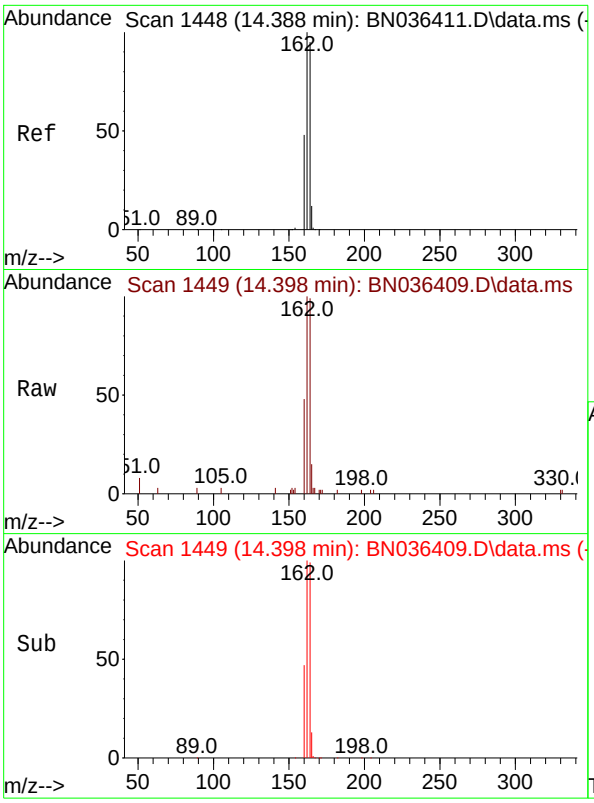


#12
2-Methylnaphthalene
Concen: 0.116 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:142 Resp: 1185

Ion	Ratio	Lower	Upper
142	100		
141	93.1	72.8	109.2
115	50.3	35.5	53.3



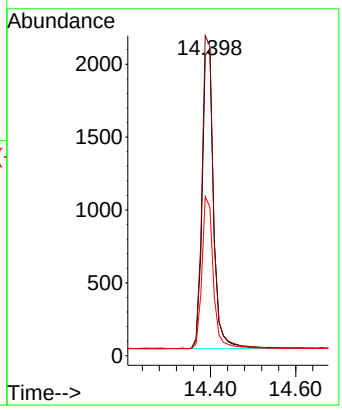


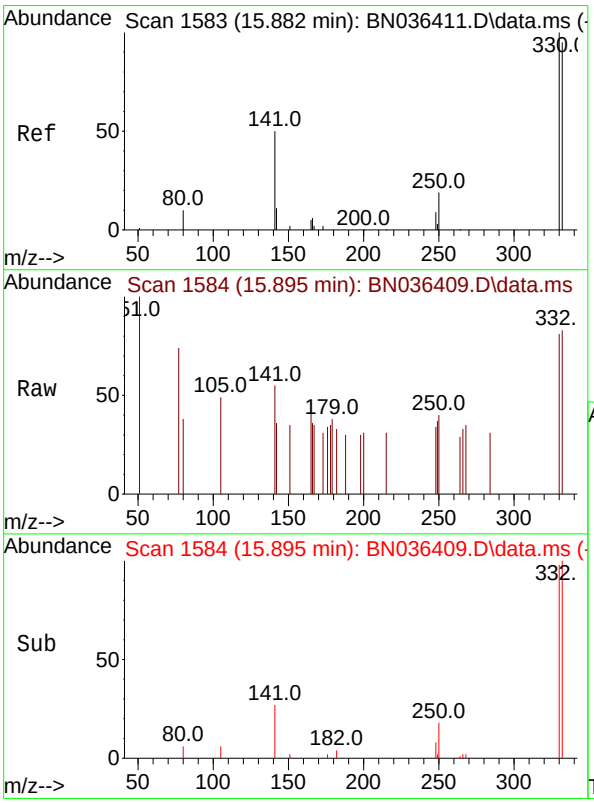
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.398 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 3837

Ion	Ratio	Lower	Upper
164	100		
162	100.8	84.1	126.1
160	48.4	41.4	62.0

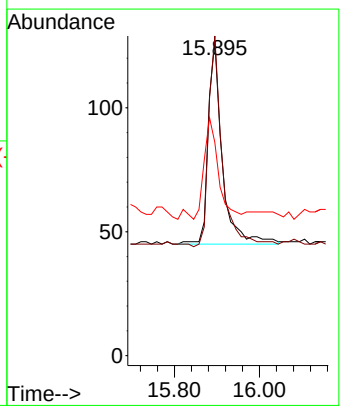


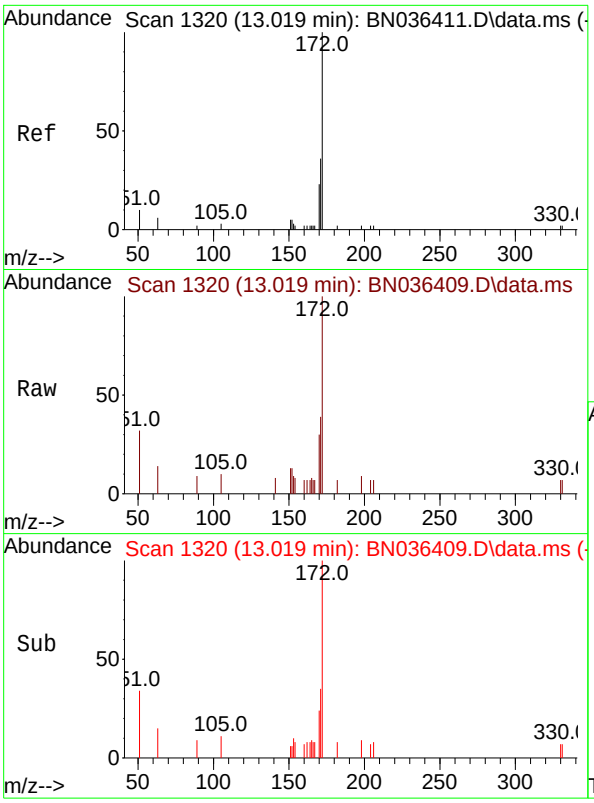


#14
2,4,6-Tribromophenol
Concen: 0.080 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:330 Resp: 188

Ion	Ratio	Lower	Upper
330	100		
332	101.6	76.6	114.8
141	50.5	37.8	56.8



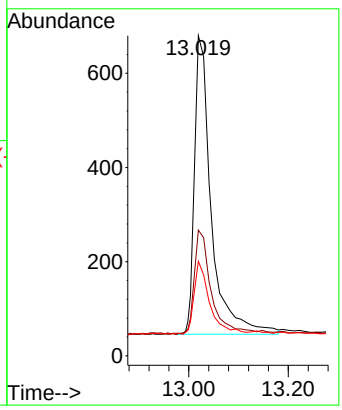


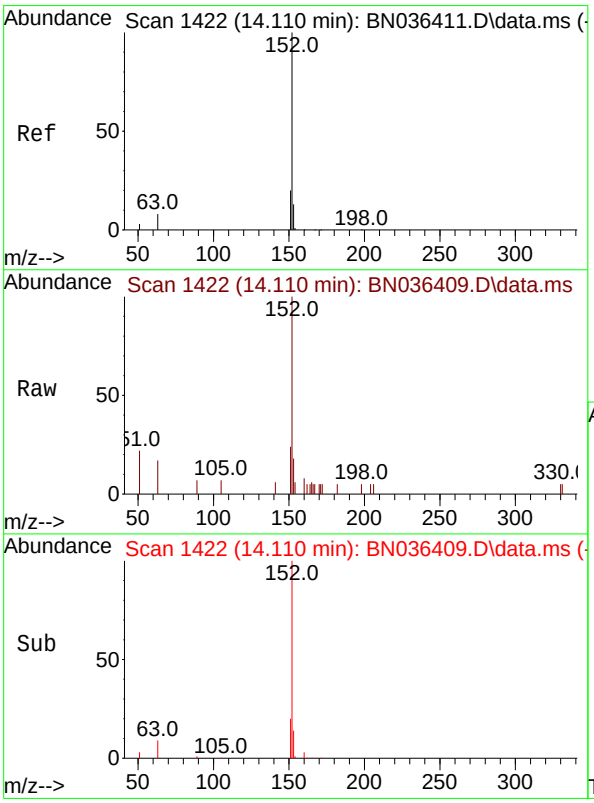
#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1352

Ion	Ratio	Lower	Upper
172	100		
171	39.3	29.6	44.4
170	29.6	19.8	29.6

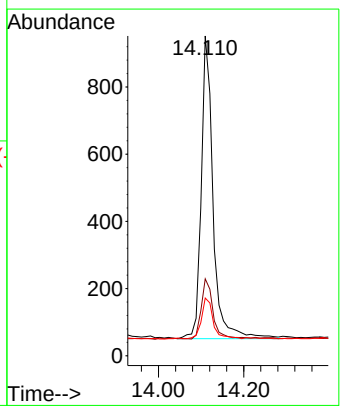


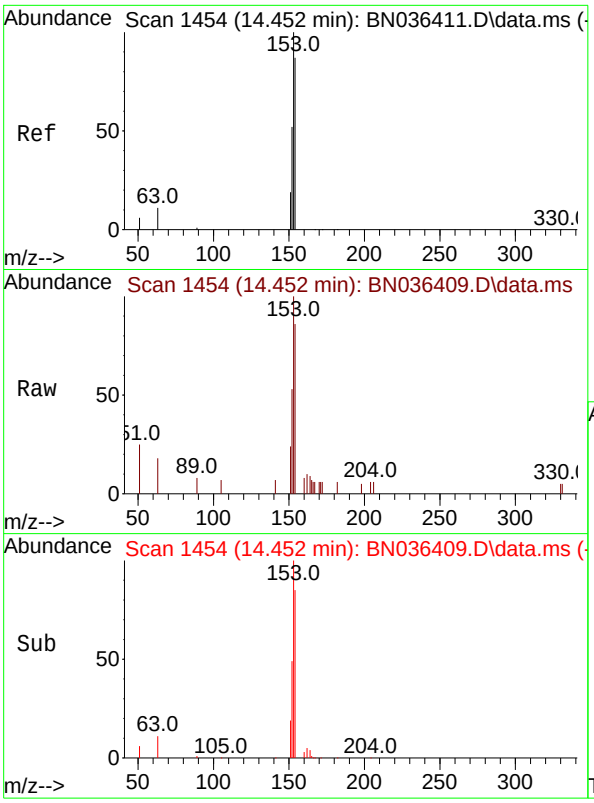


#16
Acenaphthylene
Concen: 0.098 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:152 Resp: 1733

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.8	23.8
153	13.3	10.2	15.2



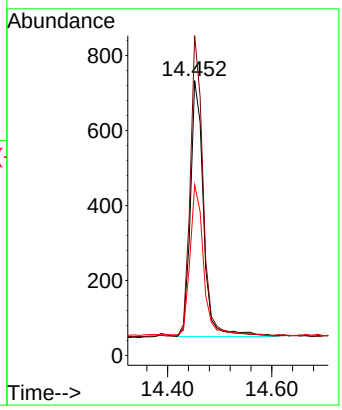


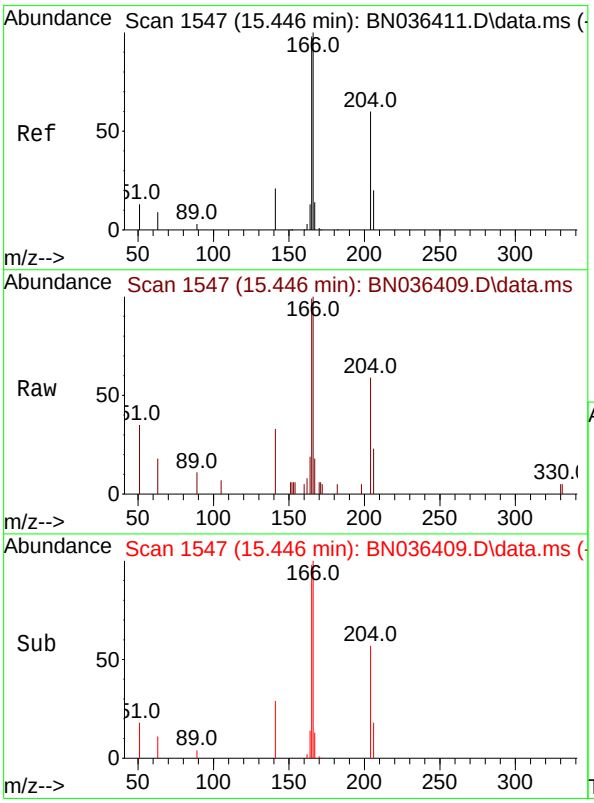
#17
Acenaphthene
Concen: 0.098 ng
RT: 14.452 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1194

Ion	Ratio	Lower	Upper
154	100		
153	114.2	93.3	139.9
152	61.5	48.8	73.2

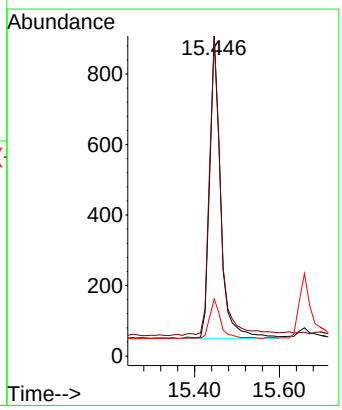


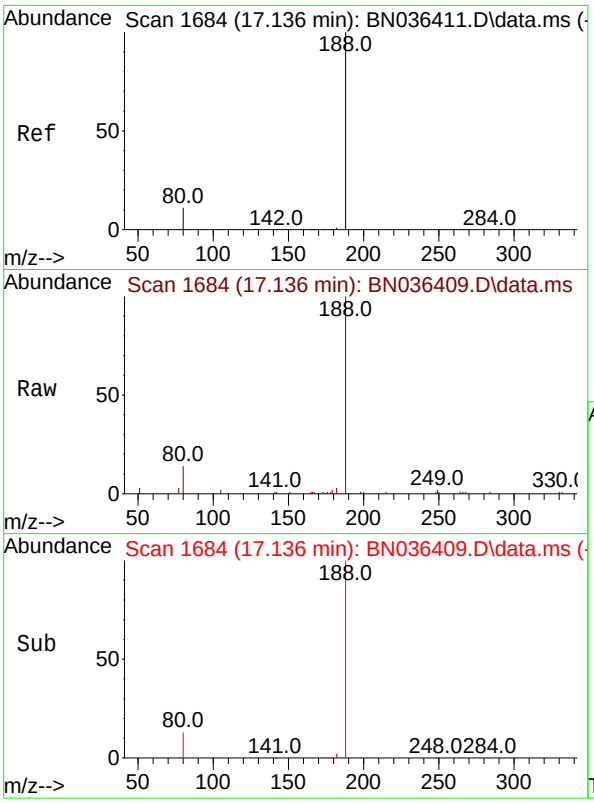


#18
Fluorene
Concen: 0.104 ng
RT: 15.446 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:166 Resp: 1627

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.5	119.3
167	13.0	10.4	15.6



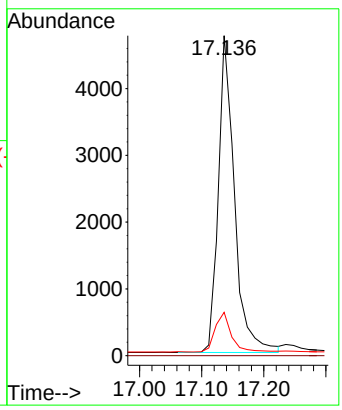


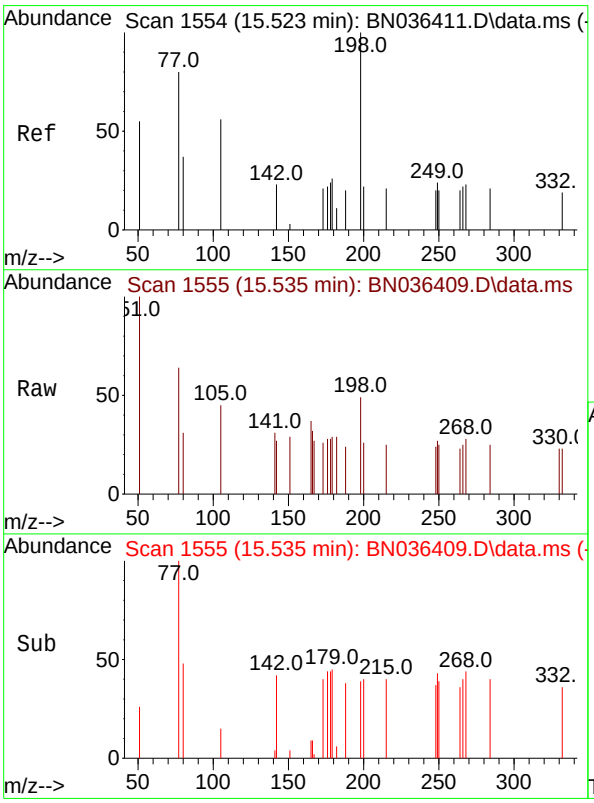
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 8539

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.6	9.8	14.6

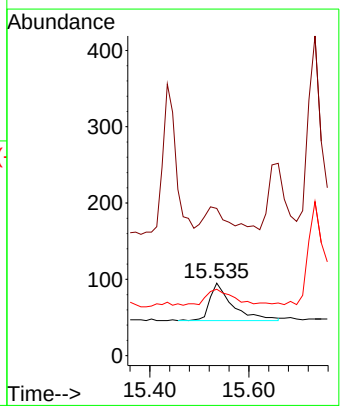


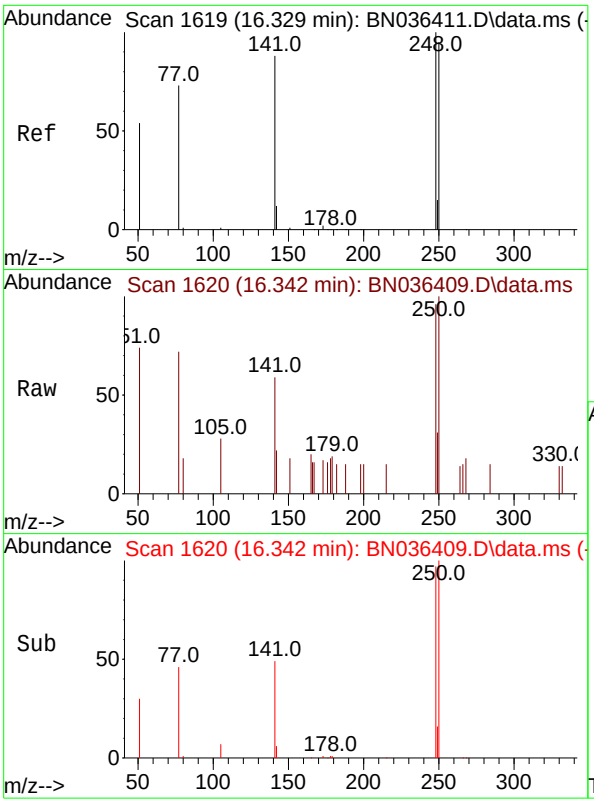


#20
4,6-Dinitro-2-methylphenol
Concen: 0.079 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:198 Resp: 151

Ion	Ratio	Lower	Upper
198	100		
51	203.2	86.6	129.8#
105	91.6	57.5	86.3#



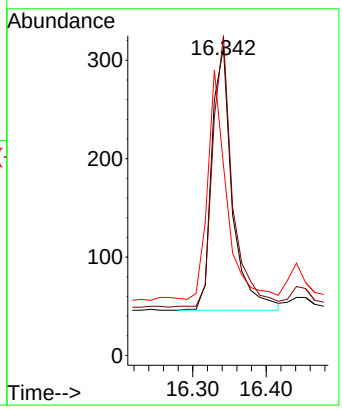


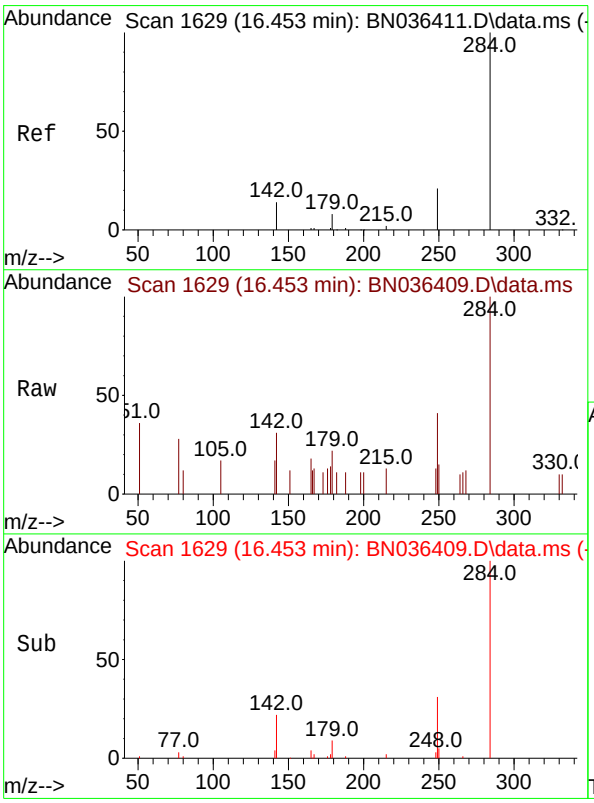
#21
4-Bromophenyl-phenylether
Concen: 0.089 ng
RT: 16.342 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 518

Ion	Ratio	Lower	Upper
248	100		
250	103.8	76.1	114.1
141	61.7	71.7	107.5#

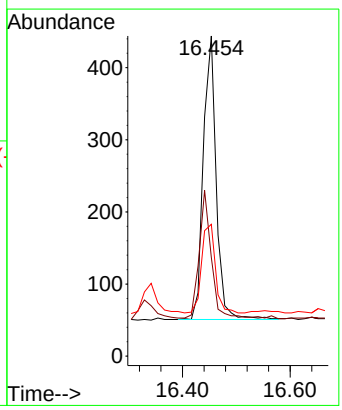


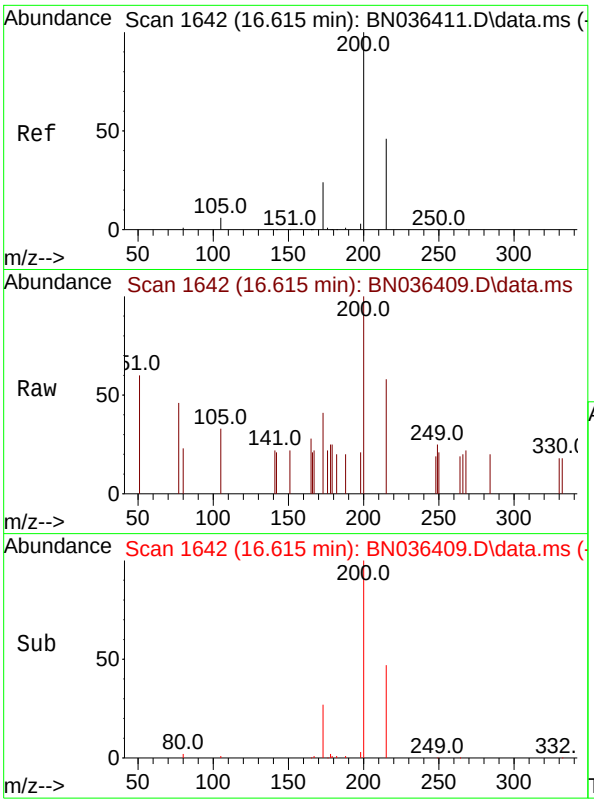


#22
Hexachlorobenzene
Concen: 0.085 ng
RT: 16.453 min Scan# 1629
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:284 Resp: 651

Ion	Ratio	Lower	Upper
284	100		
142	41.5	33.4	50.0
249	35.0	28.6	43.0



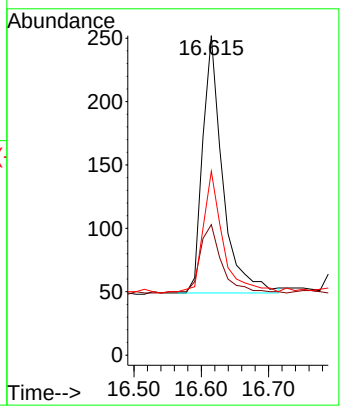


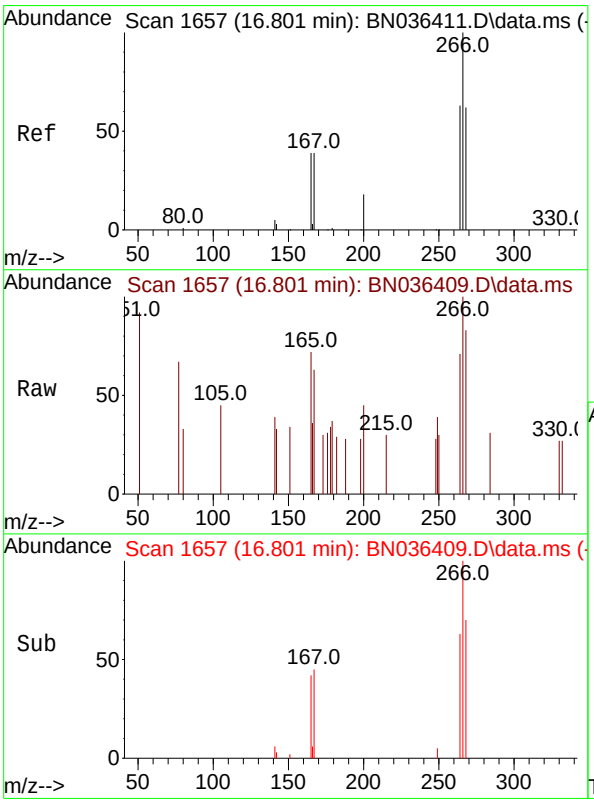
#23
Atrazine
Concen: 0.097 ng
RT: 16.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 419

Ion	Ratio	Lower	Upper
200	100		
173	40.9	23.2	34.8#
215	57.5	40.0	60.0

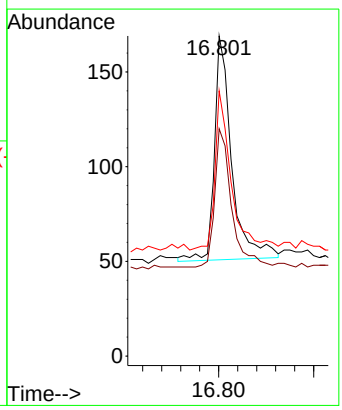


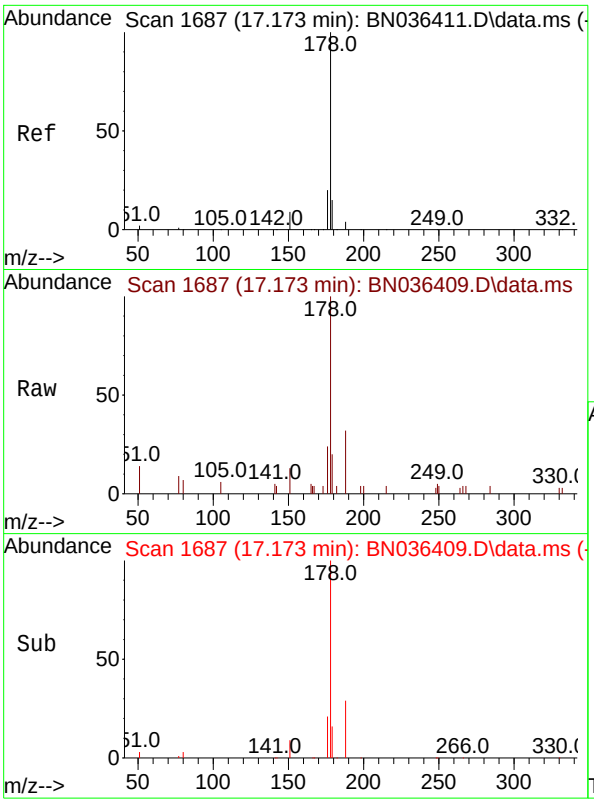


#24
Pentachlorophenol
Concen: 0.089 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:266 Resp: 298

Ion	Ratio	Lower	Upper
266	100		
264	60.1	50.6	76.0
268	63.1	51.9	77.9



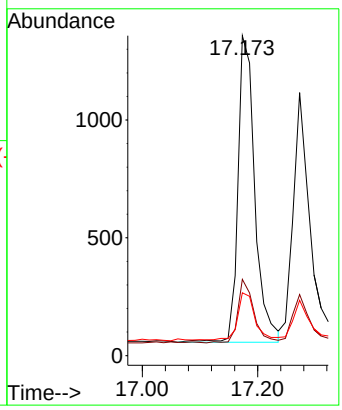


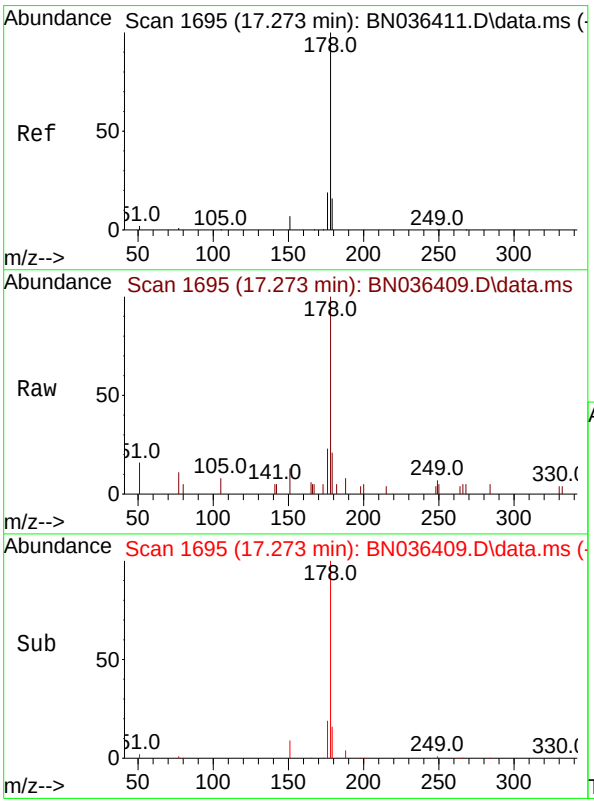
#25
Phenanthrene
Concen: 0.105 ng
RT: 17.173 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2633

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.5	12.4	18.6

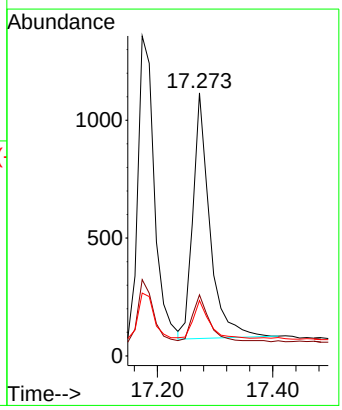


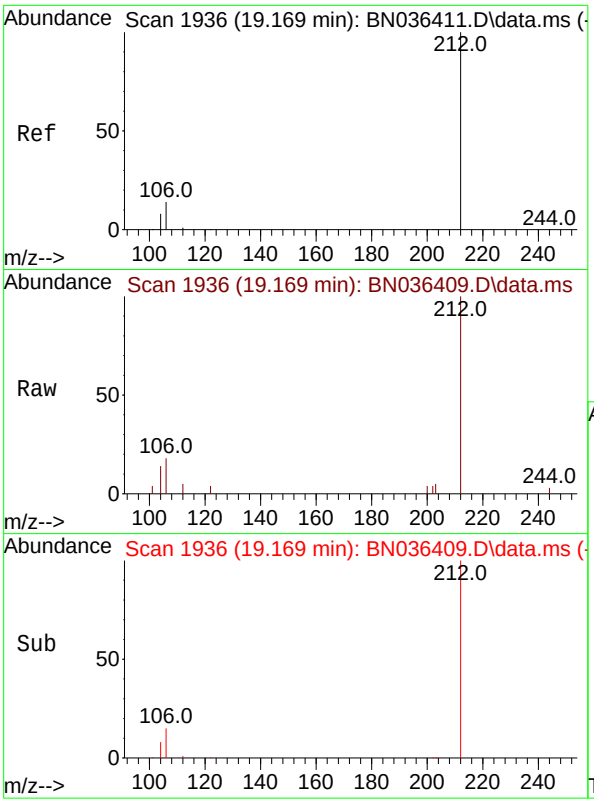


#26
Anthracene
Concen: 0.093 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:178 Resp: 2113

Ion	Ratio	Lower	Upper
178	100		
176	20.8	14.9	22.3
179	14.6	12.4	18.6



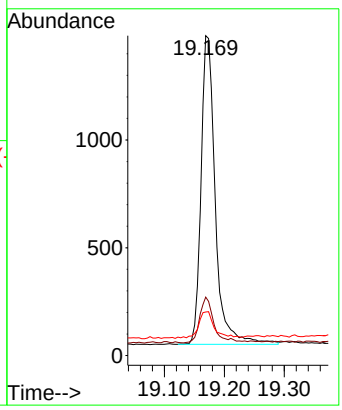


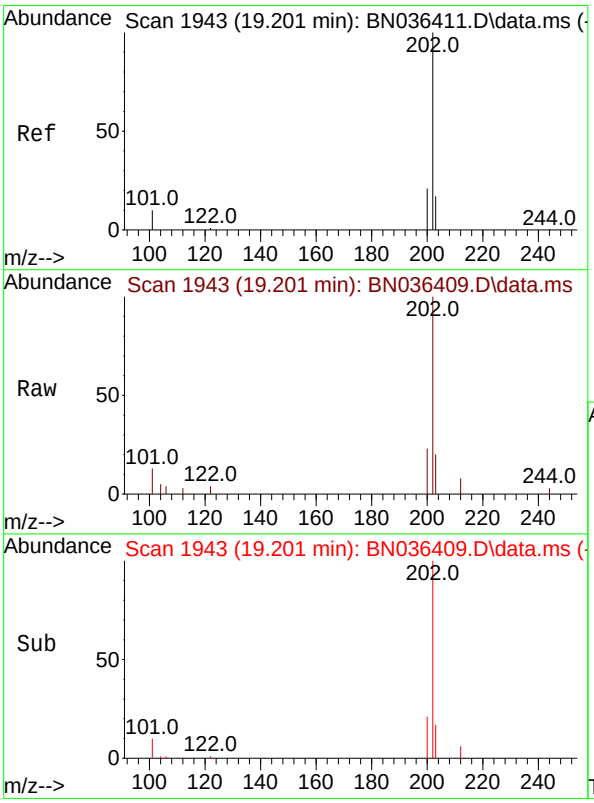
#27
Fluoranthene-d10
Concen: 0.108 ng
RT: 19.169 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 2368

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.5	17.3
104	9.8	7.1	10.7

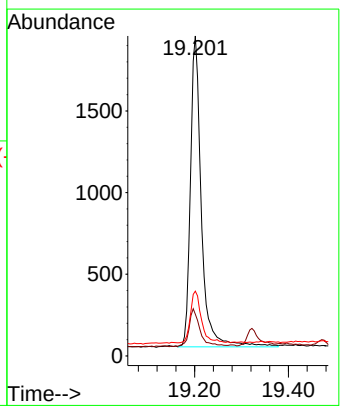


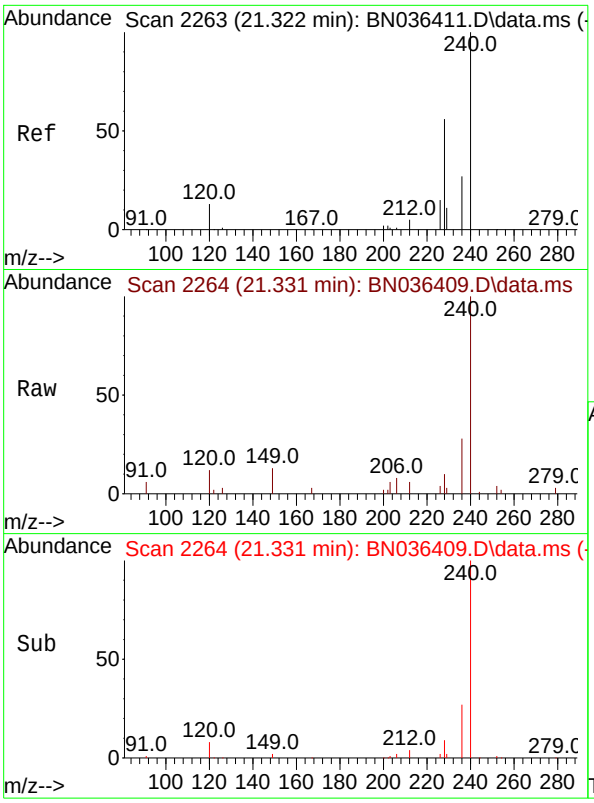


#28
Fluoranthene
Concen: 0.104 ng
RT: 19.201 min Scan# 1943
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:202 Resp: 3077

Ion	Ratio	Lower	Upper
202	100		
101	12.2	9.2	13.8
203	16.6	13.4	20.0



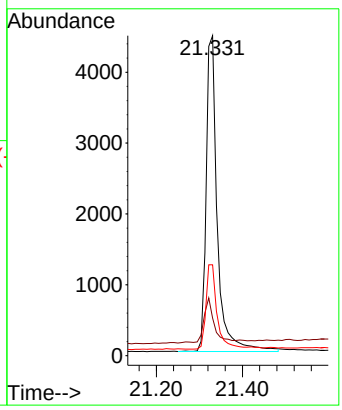


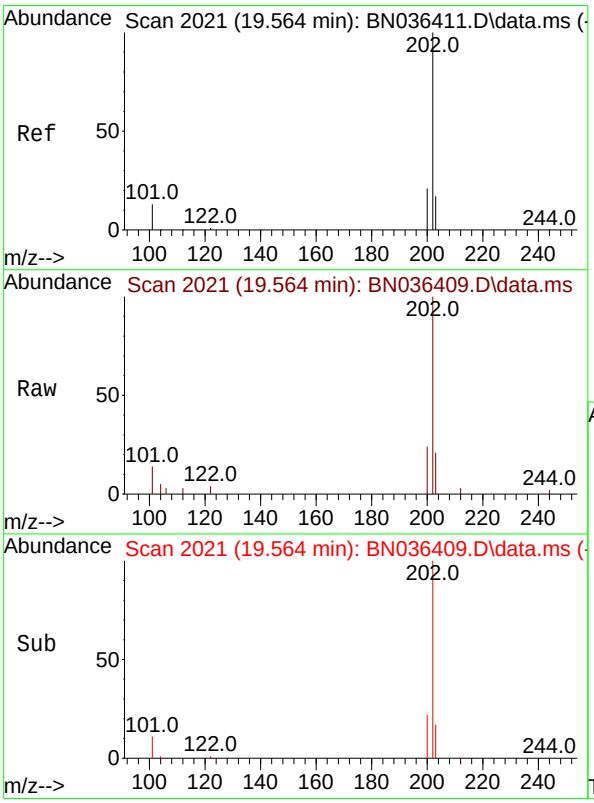
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 8027

Ion	Ratio	Lower	Upper
240	100		
120	11.7	13.3	19.9#
236	28.4	23.0	34.6

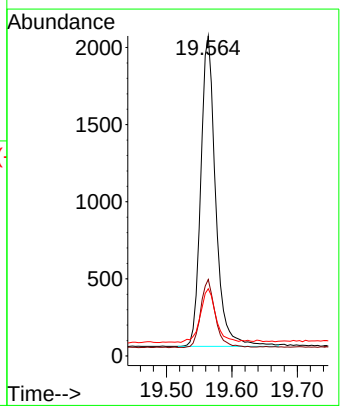


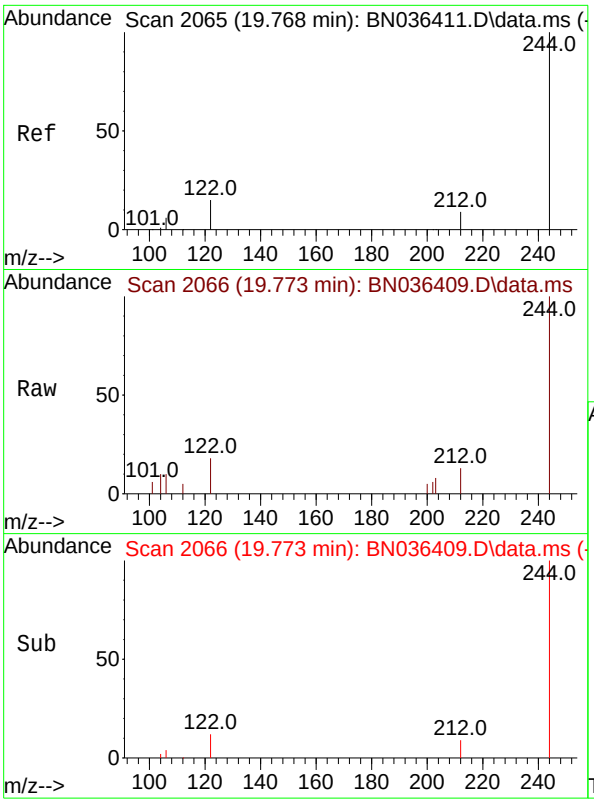


#30
Pyrene
Concen: 0.099 ng
RT: 19.564 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:202 Resp: 3179

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	17.8	13.9	20.9



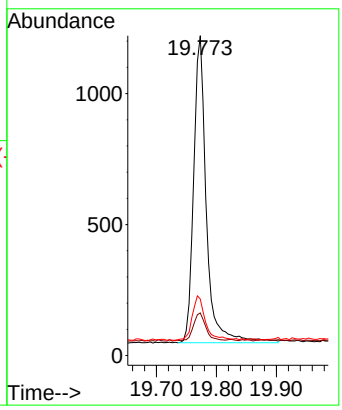


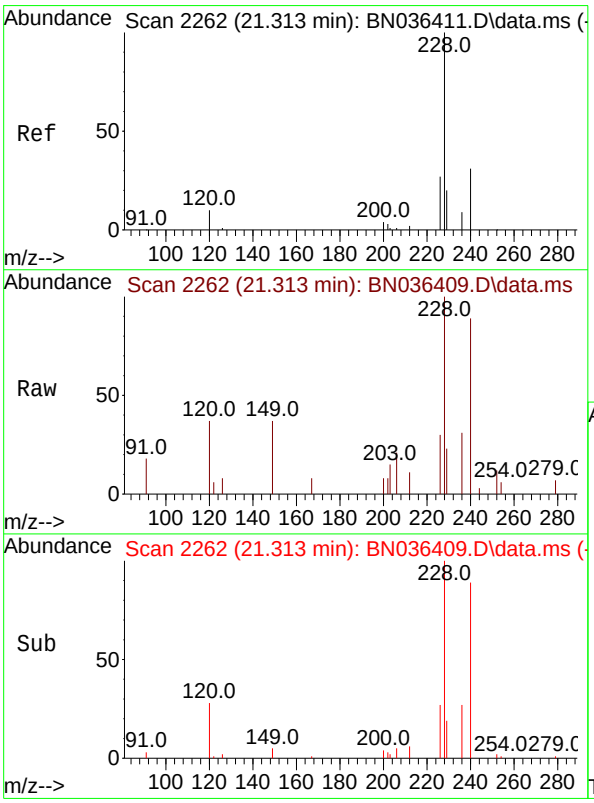
#31
Terphenyl-d14
Concen: 0.104 ng
RT: 19.773 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 1725

Ion	Ratio	Lower	Upper
244	100		
212	13.3	8.1	12.1#
122	17.7	12.8	19.2

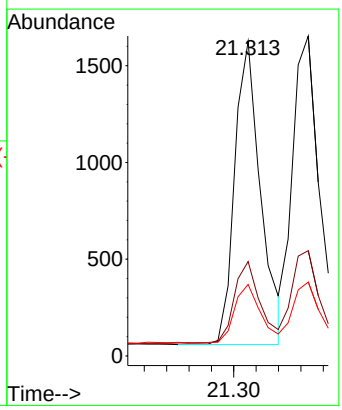


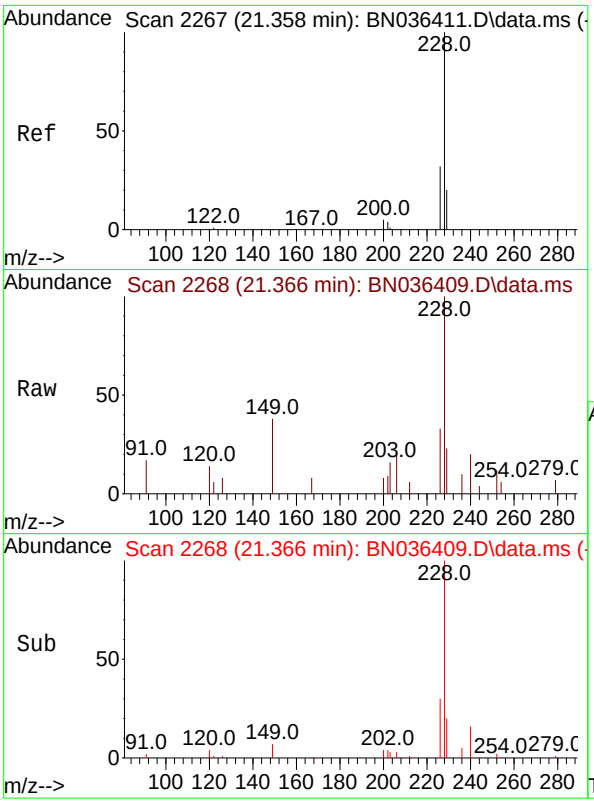


#32
Benzo(a)anthracene
Concen: 0.088 ng
RT: 21.313 min Scan# 2262
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:228 Resp: 2523

Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.2	33.2
229	22.7	16.5	24.7



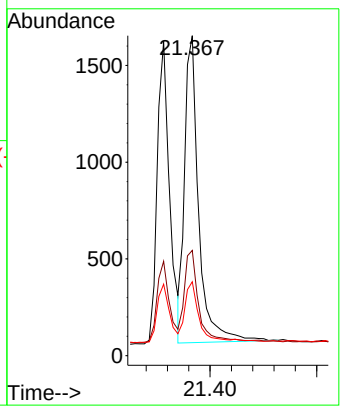


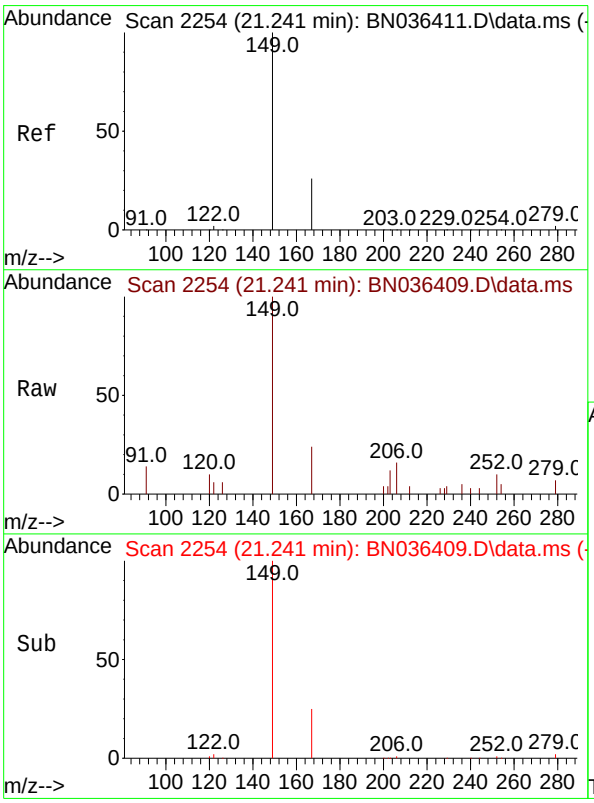
#33
Chrysene
Concen: 0.099 ng
RT: 21.366 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 2908

Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.5	38.3
229	23.1	16.4	24.6

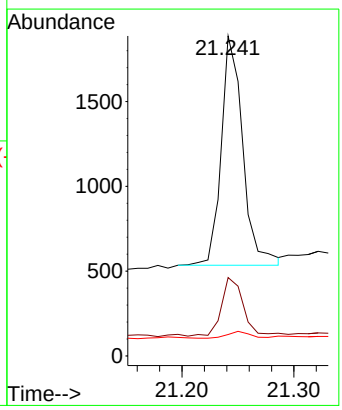


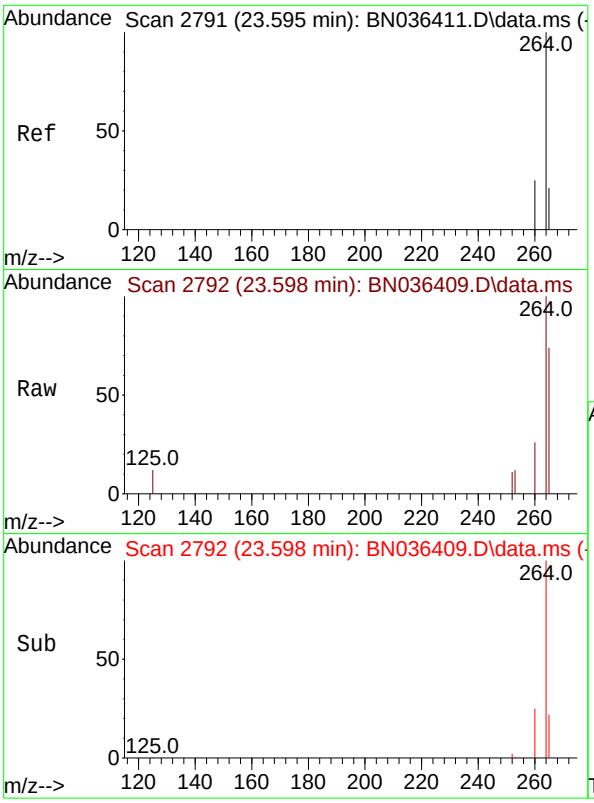


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.241 min Scan# 2254
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:149 Resp: 1810

Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.2	31.8
279	3.1	2.7	4.1



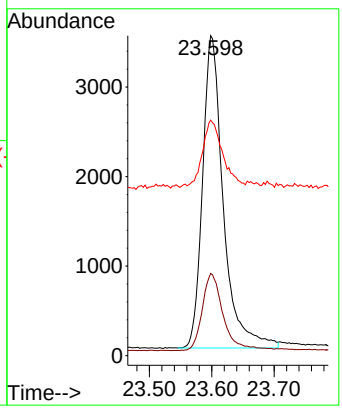


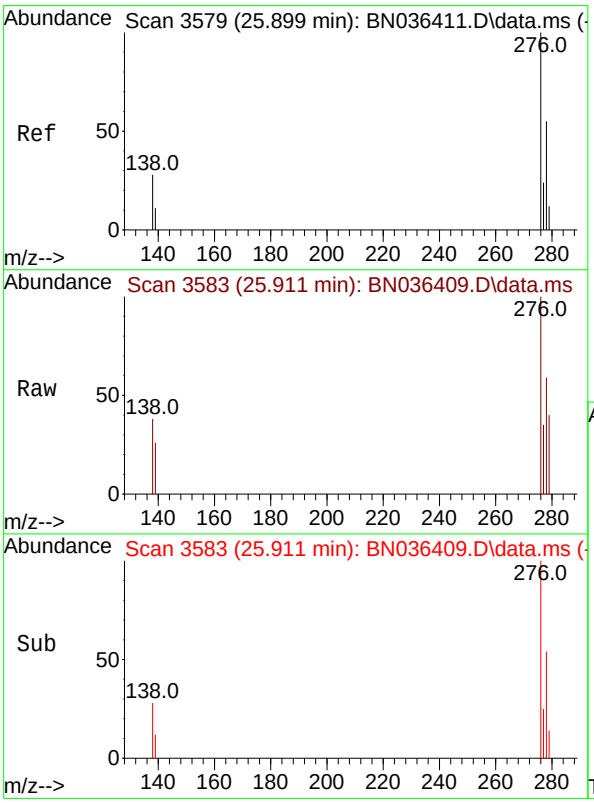
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.598 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 8068

Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.9	31.3
265	73.6	60.7	91.1

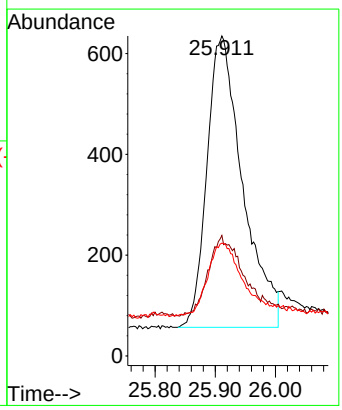


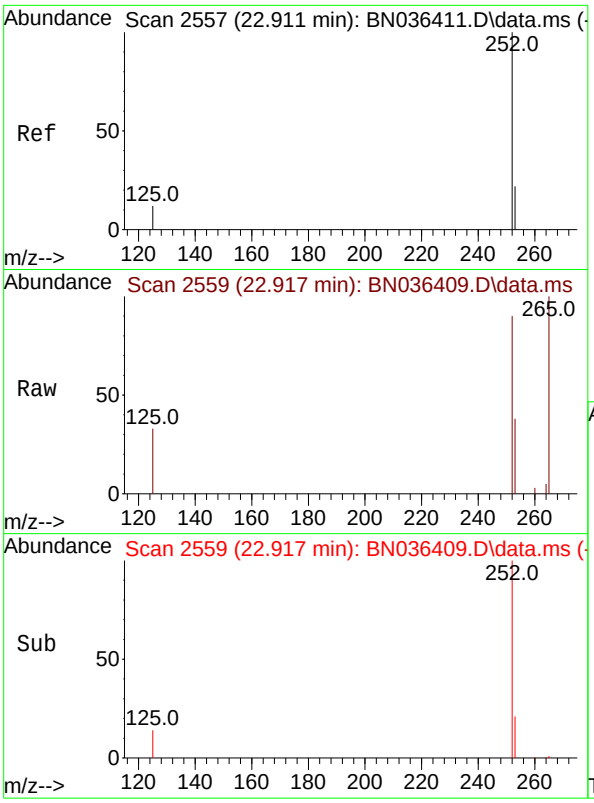


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.075 ng
RT: 25.911 min Scan# 3583
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:276 Resp: 2385

Ion	Ratio	Lower	Upper
276	100		
138	25.9	22.2	33.2
277	24.8	19.8	29.6



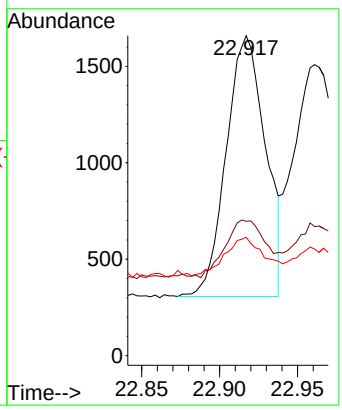


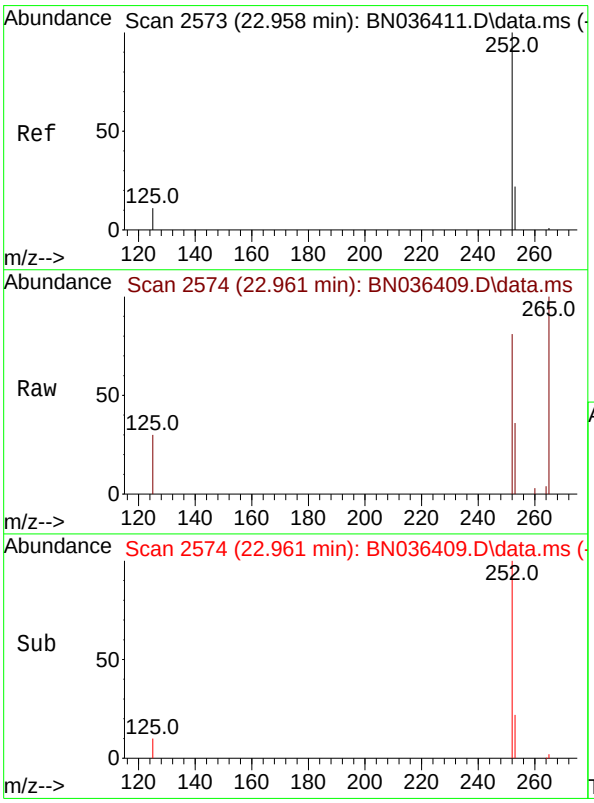
#37
Benzo(b)fluoranthene
Concen: 0.083 ng
RT: 22.917 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 2367

Ion	Ratio	Lower	Upper
252	100		
253	42.0	21.9	32.9#
125	37.0	15.0	22.6#

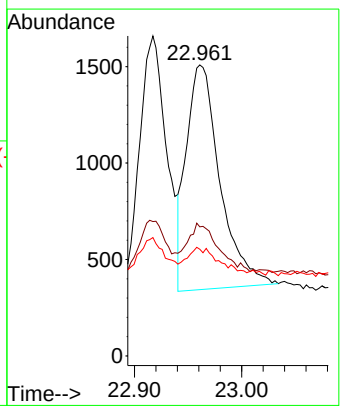


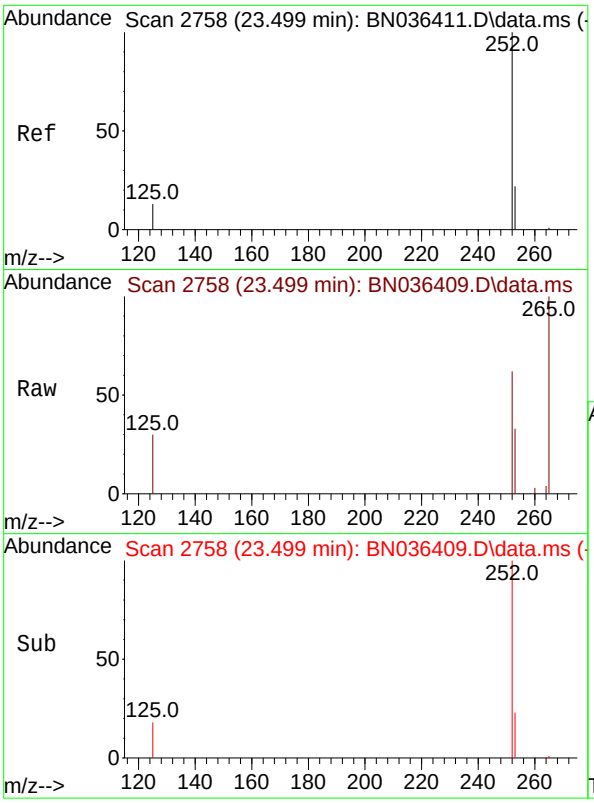


#38
Benzo(k)fluoranthene
Concen: 0.087 ng
RT: 22.961 min Scan# 2574
Delta R.T. 0.003 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:252 Resp: 2537

Ion	Ratio	Lower	Upper
252	100		
253	44.3	22.2	33.4#
125	36.6	15.0	22.4#



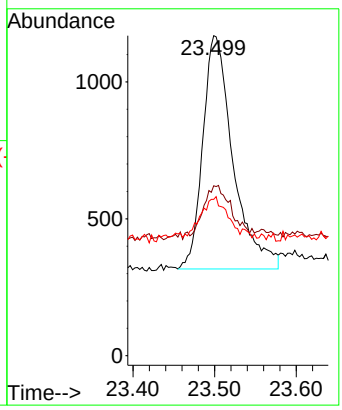


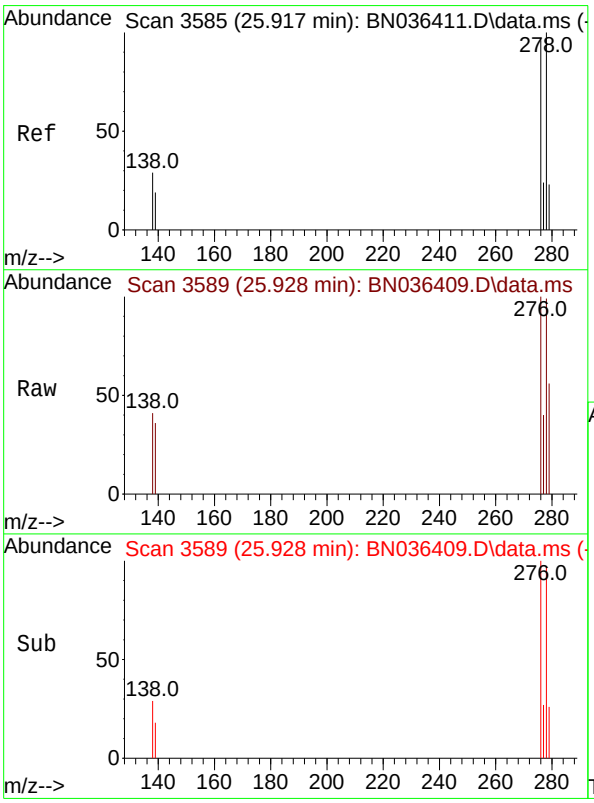
#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.499 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 2200

Ion	Ratio	Lower	Upper
252	100		
253	53.1	24.4	36.6#
125	48.8	18.2	27.2#

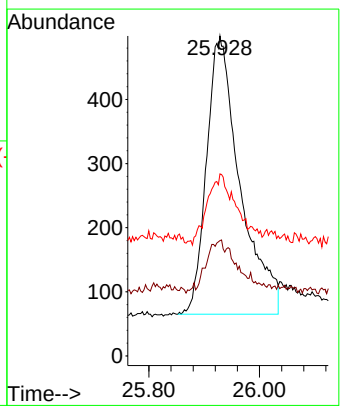


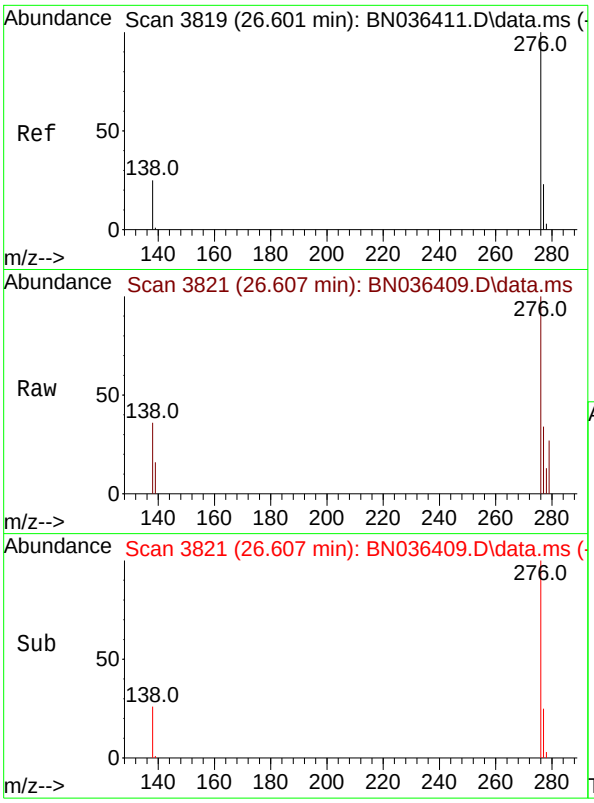


#40
Dibenzo(a,h)anthracene
Concen: 0.073 ng
RT: 25.928 min Scan# 3589
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:278 Resp: 1827

Ion	Ratio	Lower	Upper
278	100		
139	36.1	18.5	27.7#
279	56.9	24.8	37.2#





#41
Benzo(g,h,i)perylene
Concen: 0.083 ng
RT: 26.607 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 2299

Ion	Ratio	Lower	Upper
276	100		
277	34.3	20.7	31.1#
138	36.1	21.8	32.6#