Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037582.D
Acq On : 12 Aug 2025 18:52
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 13 04:49:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	1999	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	4868	0.400	ng		0.00
13) Acenaphthene-d10	14.345	164	2499	0.400	ng		0.00
19) Phenanthrene-d10	17.086	188	4868	0.400	ng		0.00
29) Chrysene-d12	21.268	240	4728	0.400	ng	#	0.00
35) Perylene-d12	23.505	264	4054	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	7088	1.564	ng		0.00
5) Phenol-d6	6.879	99	9580	1.757	ng		0.00
8) Nitrobenzene-d5	8.854	82	5686	1.658	ng		0.00
11) 2-Methylnaphthalene-d10	12.091	152	10567	1.597	ng		0.00
14) 2,4,6-Tribromophenol	15.833	330	1852	1.693	ng		0.00
15) 2-Fluorobiphenyl	12.973	172	23403	1.619	ng		0.00
27) Fluoranthene-d10	19.118	212	20450	1.597	ng		0.00
31) Terphenyl-d14	19.722	244	15761	1.620	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	3171	1.658	ng		97
3) n-Nitrosodimethylamine	3.535	42	3942	1.613	ng		97
6) bis(2-Chloroethyl)ether	7.139	93	8159	1.660	ng		98
9) Naphthalene	10.552	128	21204	1.636	ng		98
10) Hexachlorobutadiene	10.851	225	5193	1.640	ng	#	100
12) 2-Methylnaphthalene	12.167	142	13647	1.679	ng		99
16) Acenaphthylene	14.067	152	18492	1.651	ng		100
17) Acenaphthene	14.409	154	12820	1.682	ng		96
18) Fluorene	15.393	166	16858	1.691	ng		100
20) 4,6-Dinitro-2-methylph...	15.467	198	1182	1.517	ng	#	56
21) 4-Bromophenyl-phenylether	16.292	248	5158	1.686	ng		94
22) Hexachlorobenzene	16.404	284	7080	1.633	ng		100
23) Atrazine	16.553	200	3118	1.803	ng		93
24) Pentachlorophenol	16.739	266	2704	1.775	ng		99
25) Phenanthrene	17.124	178	24938	1.685	ng		100
26) Anthracene	17.223	178	22287	1.701	ng		100
28) Fluoranthene	19.150	202	29263	1.721	ng		100
30) Pyrene	19.513	202	28406	1.607	ng		99
32) Benzo(a)anthracene	21.259	228	25547	1.618	ng		99
33) Chrysene	21.304	228	28577	1.624	ng		99
34) Bis(2-ethylhexyl)phtha...	21.205	149	9868	1.514	ng		99
36) Indeno(1,2,3-cd)pyrene	25.768	276	29448	1.724	ng		99
37) Benzo(b)fluoranthene	22.835	252	26189	1.705	ng	#	92
38) Benzo(k)fluoranthene	22.879	252	29528	1.703	ng	#	91
39) Benzo(a)pyrene	23.408	252	21441	1.683	ng	#	89
40) Dibenzo(a,h)anthracene	25.779	278	23334	1.761	ng		93
41) Benzo(g,h,i)perylene	26.455	276	23781	1.703	ng		96

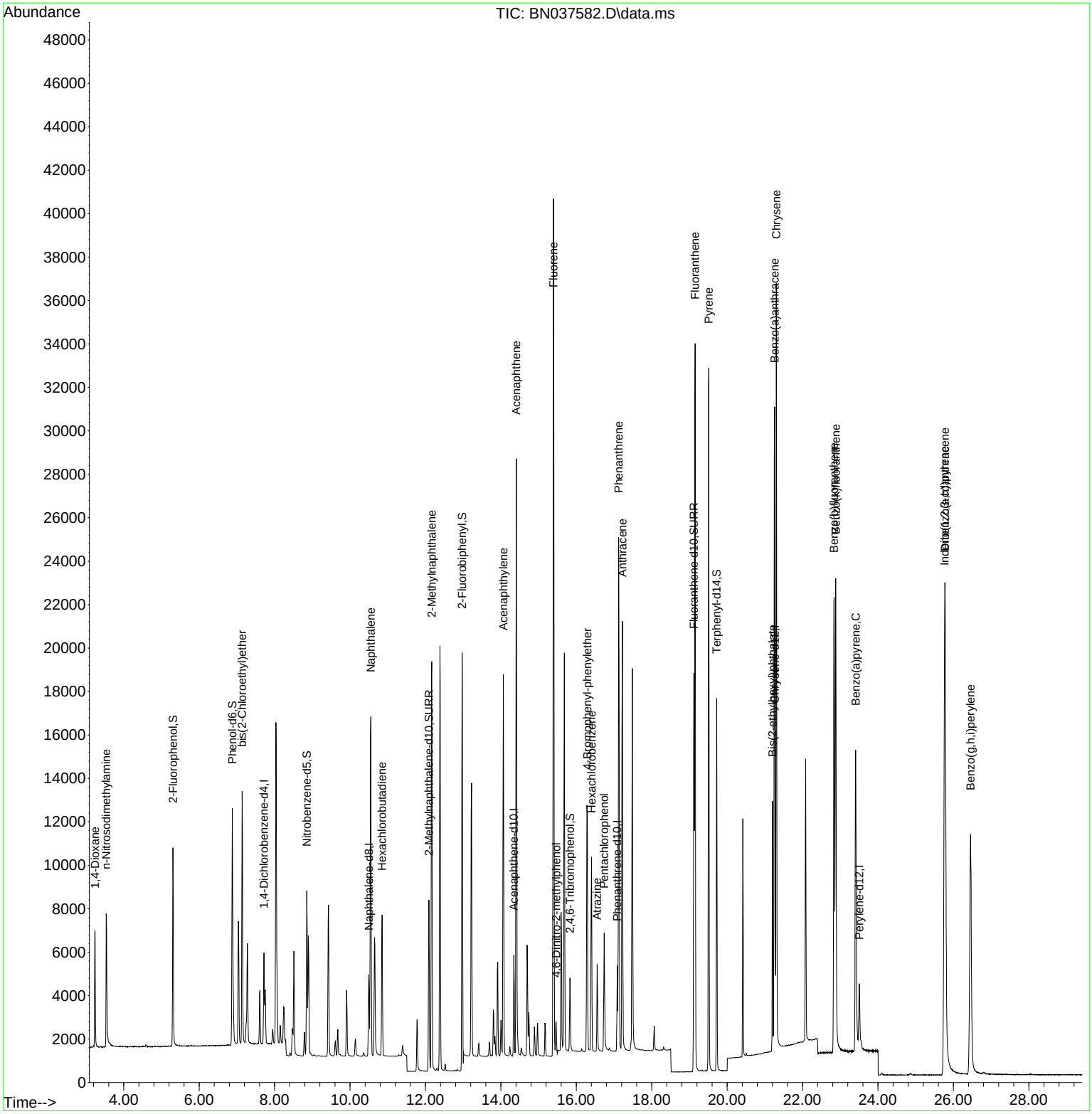
(#) = qualifier out of range (m) = manual integration (+) = signals summed

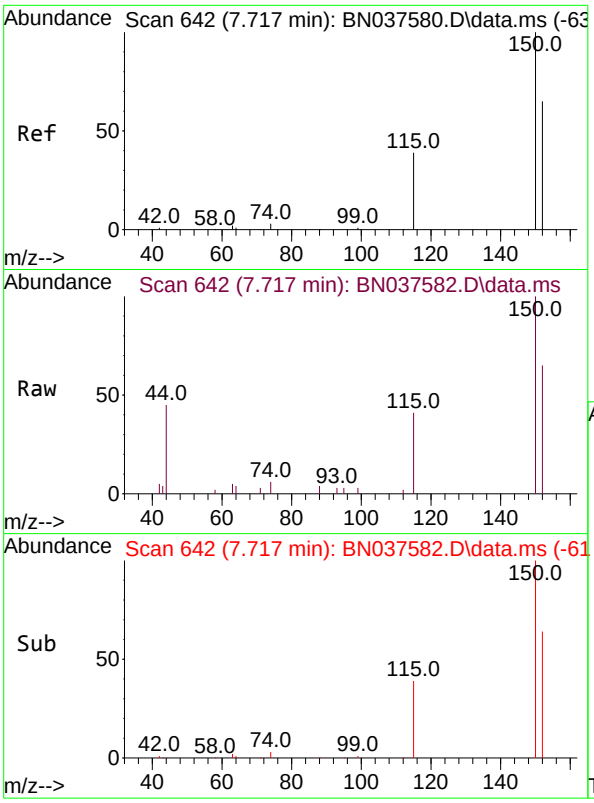
Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037582.D
Acq On : 12 Aug 2025 18:52
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 13 04:49:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration



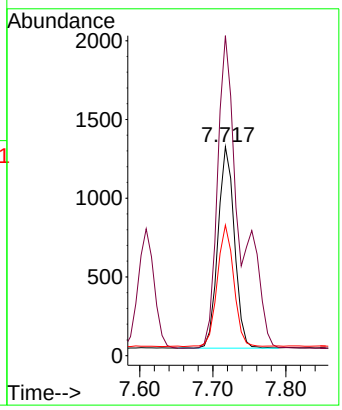


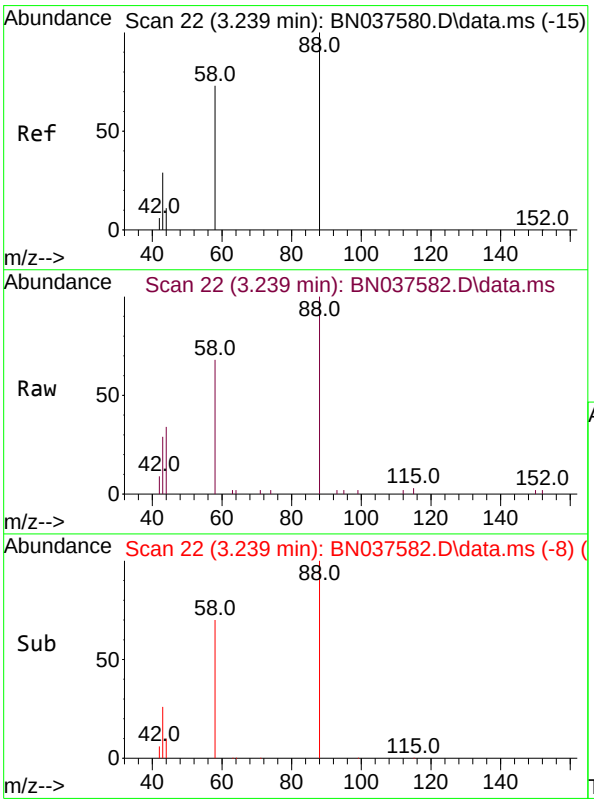
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 1999

Ion	Ratio	Lower	Upper
152	100		
150	153.1	122.2	183.4
115	62.5	49.8	74.6

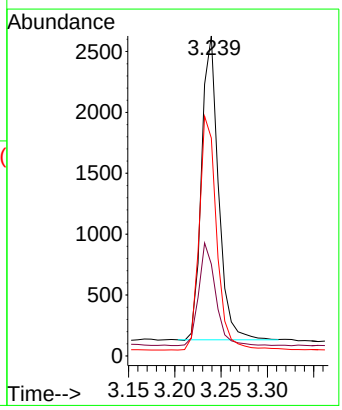


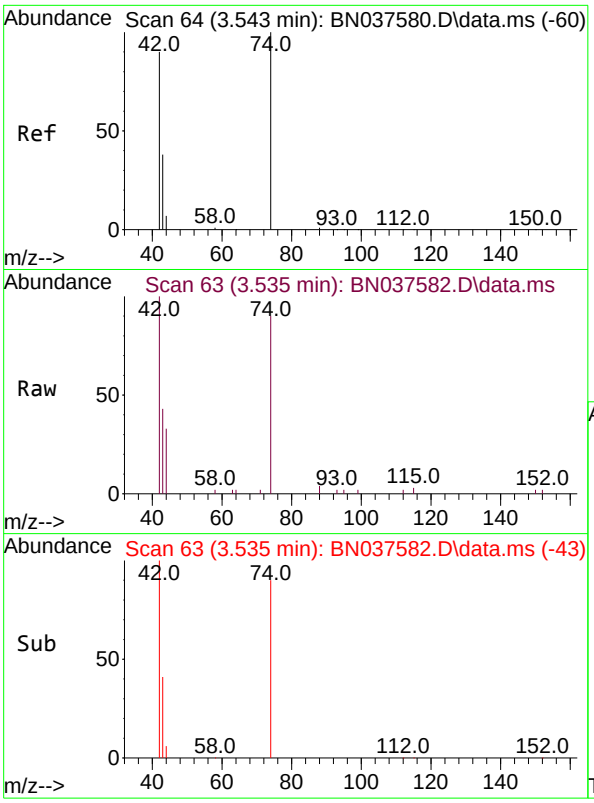


#2
1,4-Dioxane
Concen: 1.658 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion: 88 Resp: 3171

Ion	Ratio	Lower	Upper
88	100		
43	33.6	25.8	38.6
58	79.6	61.2	91.8



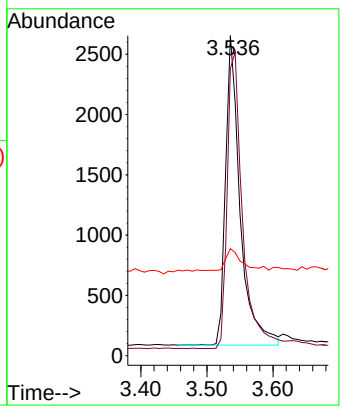


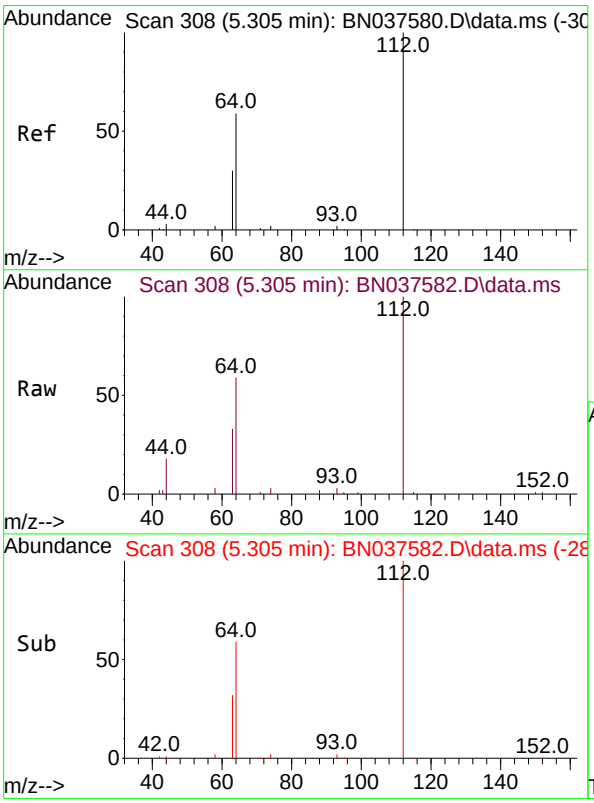
#3
n-Nitrosodimethylamine
Concen: 1.613 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 3942

Ion	Ratio	Lower	Upper
42	100		
74	105.0	82.0	123.0
44	8.0	7.9	11.9

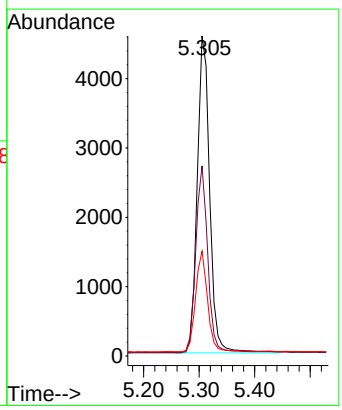


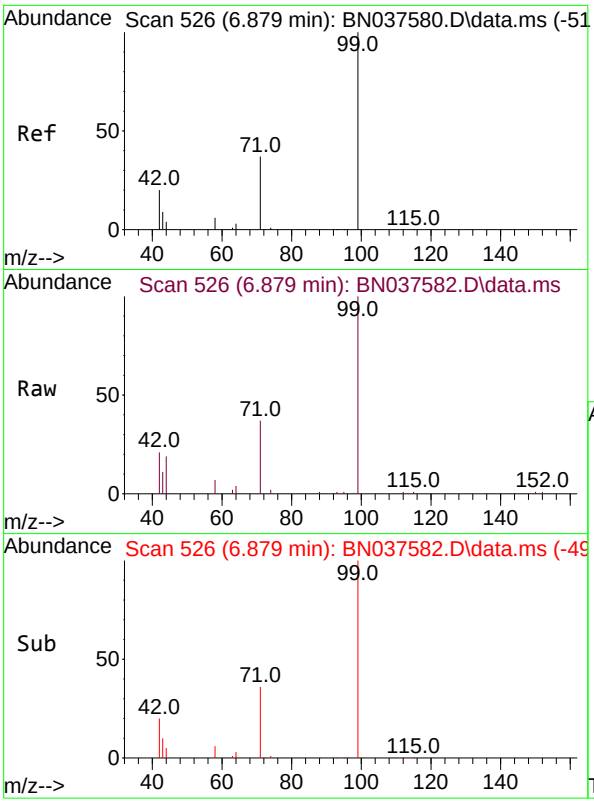


#4
2-Fluorophenol
Concen: 1.564 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:112 Resp: 7088

Ion	Ratio	Lower	Upper
112	100		
64	56.7	44.9	67.3
63	30.5	23.4	35.2



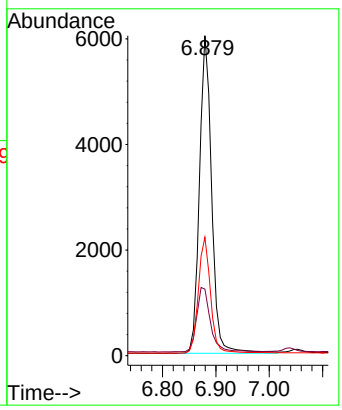


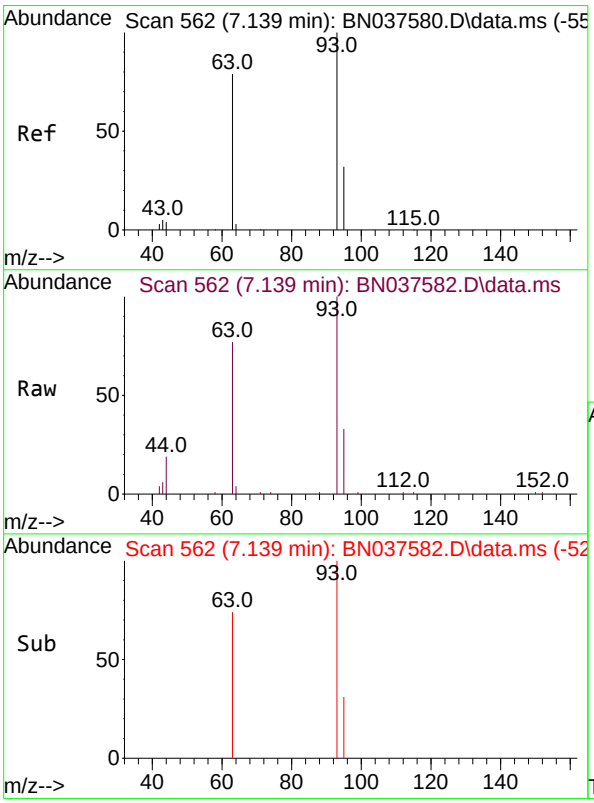
#5
Phenol-d6
Concen: 1.757 ng
RT: 6.879 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 9580

Ion	Ratio	Lower	Upper
99	100		
42	22.9	18.5	27.7
71	36.8	28.6	42.8

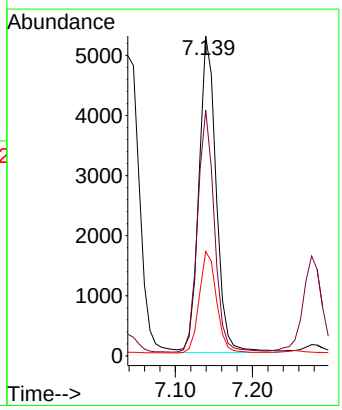


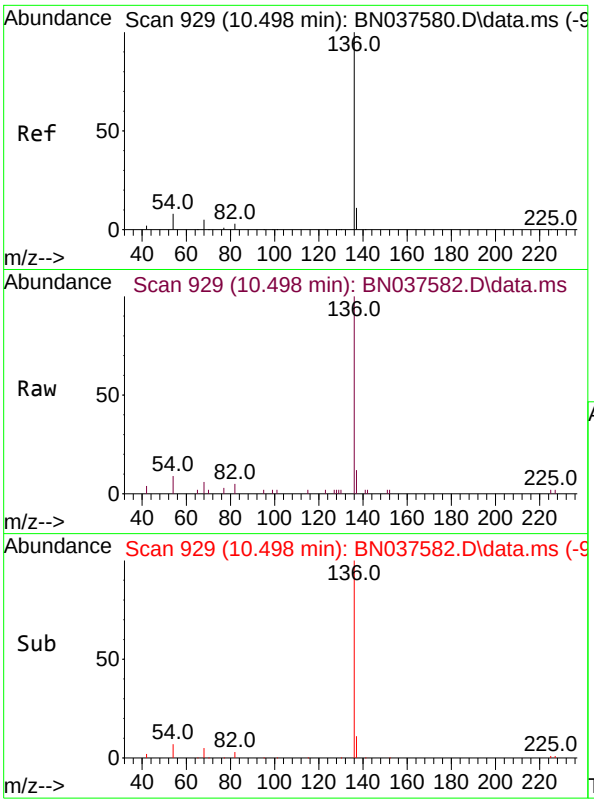


#6
bis(2-Chloroethyl)ether
Concen: 1.660 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion: 93 Resp: 8159

Ion	Ratio	Lower	Upper
93	100		
63	74.6	58.0	87.0
95	32.2	24.9	37.3



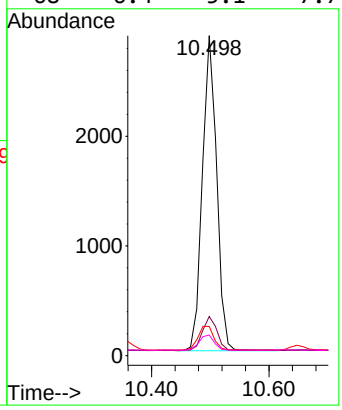


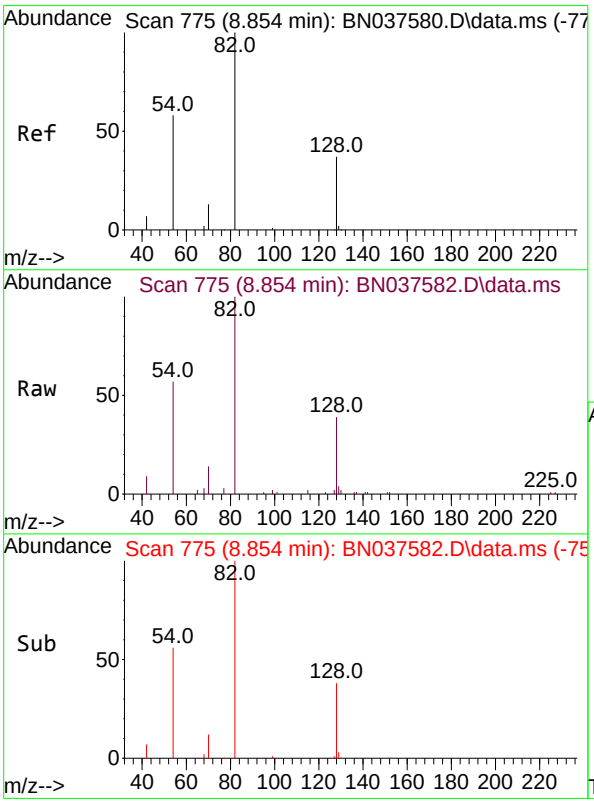
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 4868

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	9.1	7.3	10.9
68	6.4	5.1	7.7

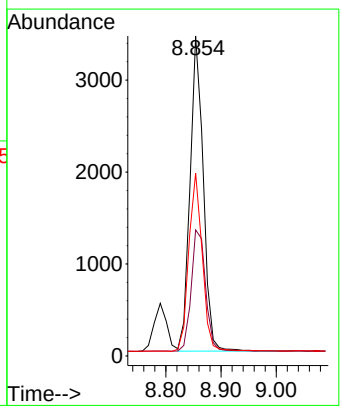


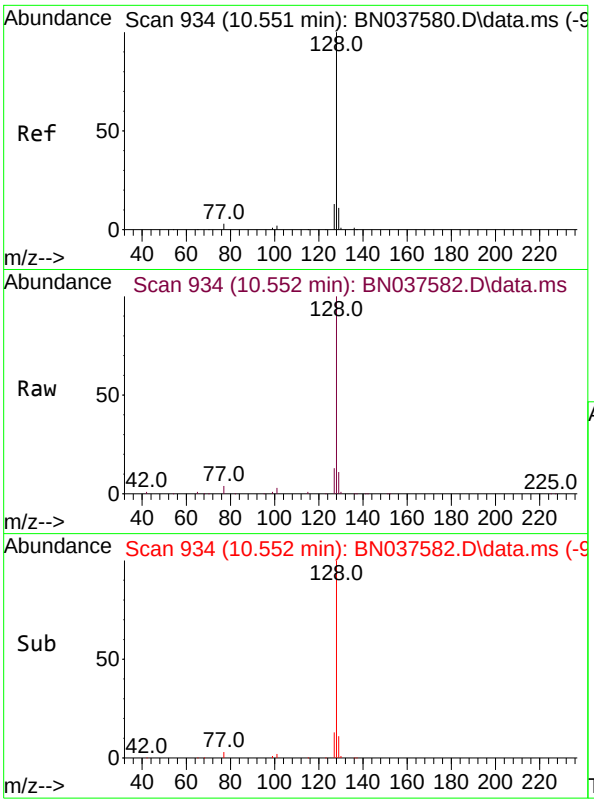


#8
Nitrobenzene-d5
Concen: 1.658 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion: 82 Resp: 5686

Ion	Ratio	Lower	Upper
82	100		
128	39.4	32.6	48.8
54	57.2	48.9	73.3



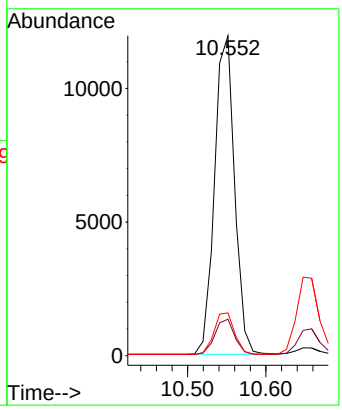


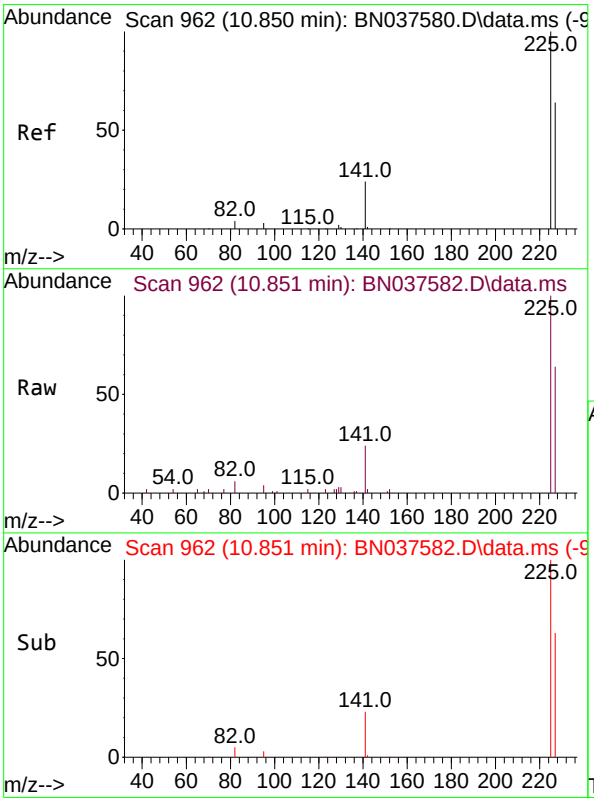
#9
Naphthalene
Concen: 1.636 ng
RT: 10.552 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 21204

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.8	14.6
127	13.4	11.5	17.3

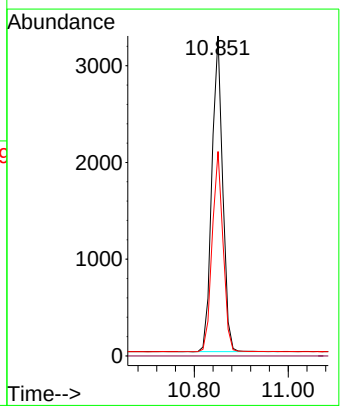


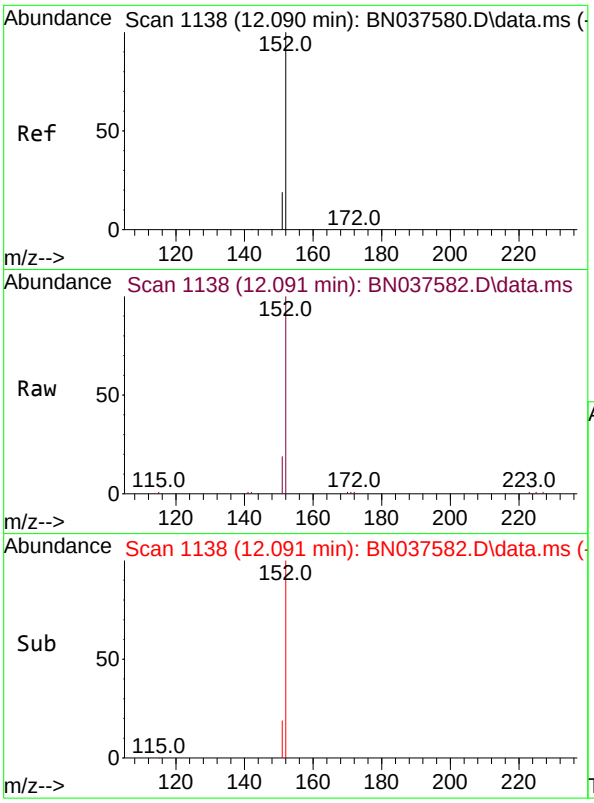


#10
Hexachlorobutadiene
Concen: 1.640 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:225 Resp: 5193

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.8	76.2



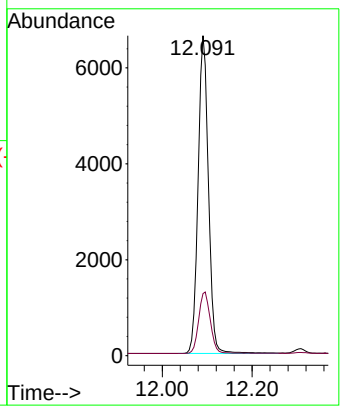


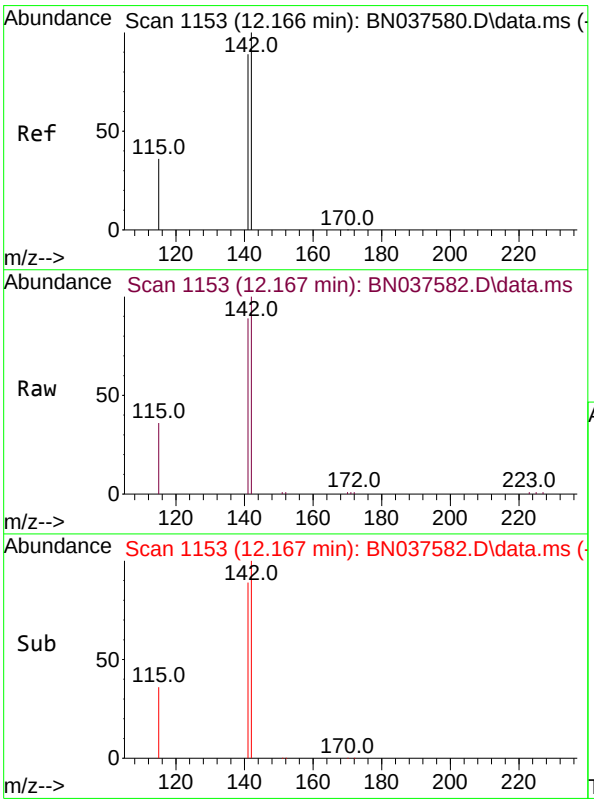
#11
2-Methylnaphthalene-d10
Concen: 1.597 ng
RT: 12.091 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 10567

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.3	25.9

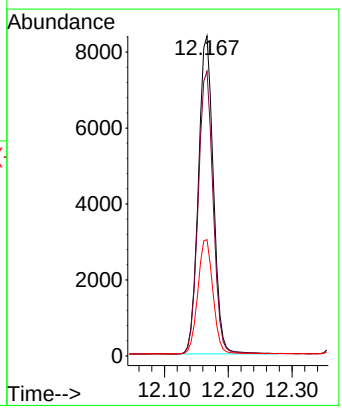


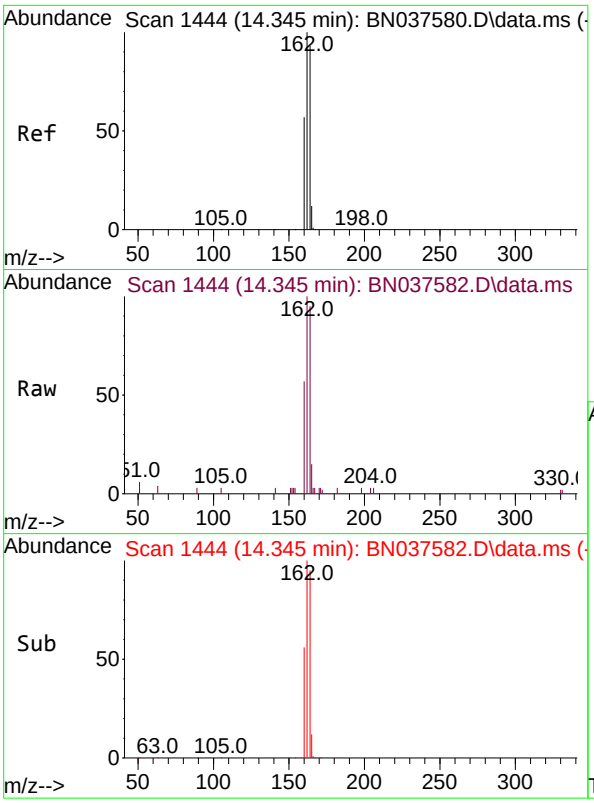


#12
2-Methylnaphthalene
Concen: 1.679 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:142 Resp: 13647

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.4	107.0
115	36.4	30.2	45.4



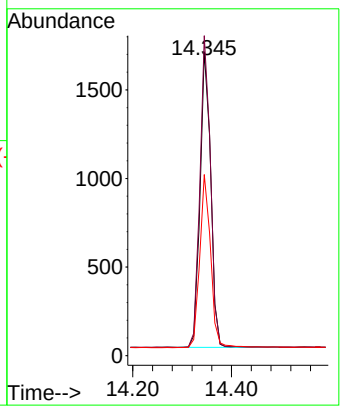


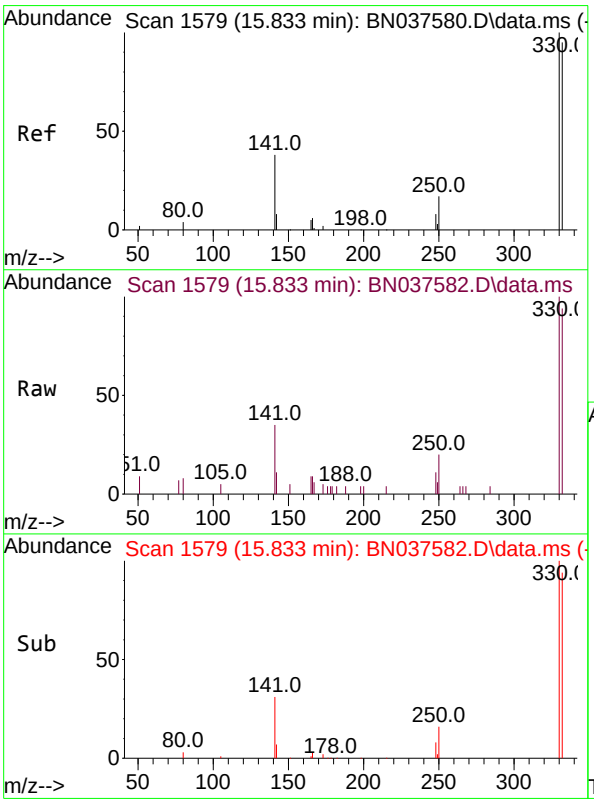
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 2499

Ion	Ratio	Lower	Upper
164	100		
162	105.2	85.5	128.3
160	59.6	49.5	74.3

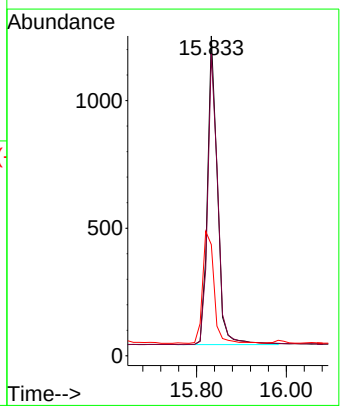


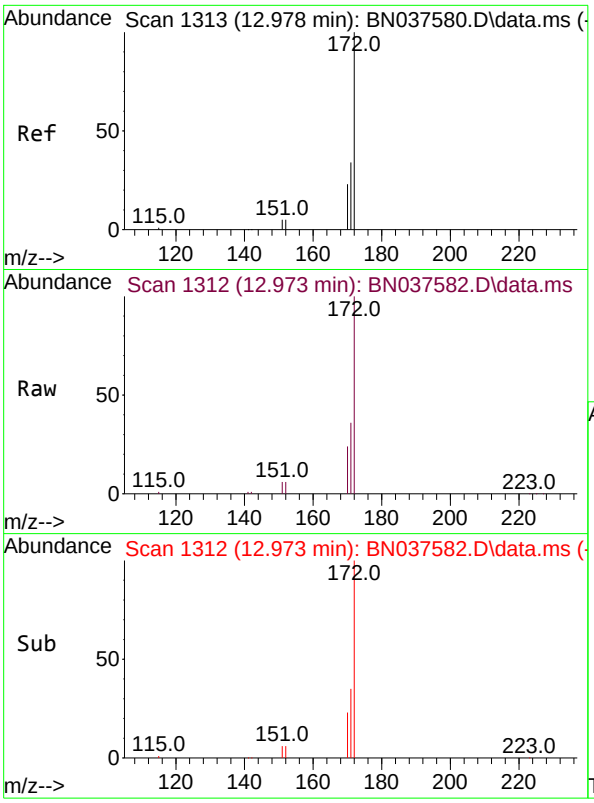


#14
2,4,6-Tribromophenol
Concen: 1.693 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:330 Resp: 1852

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.4	116.0
141	41.4	30.9	46.3



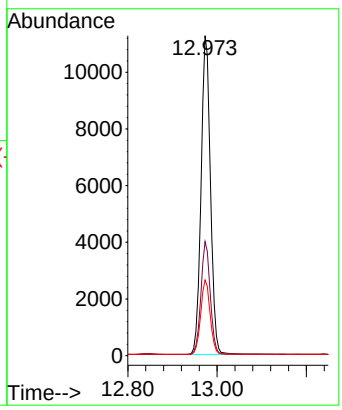


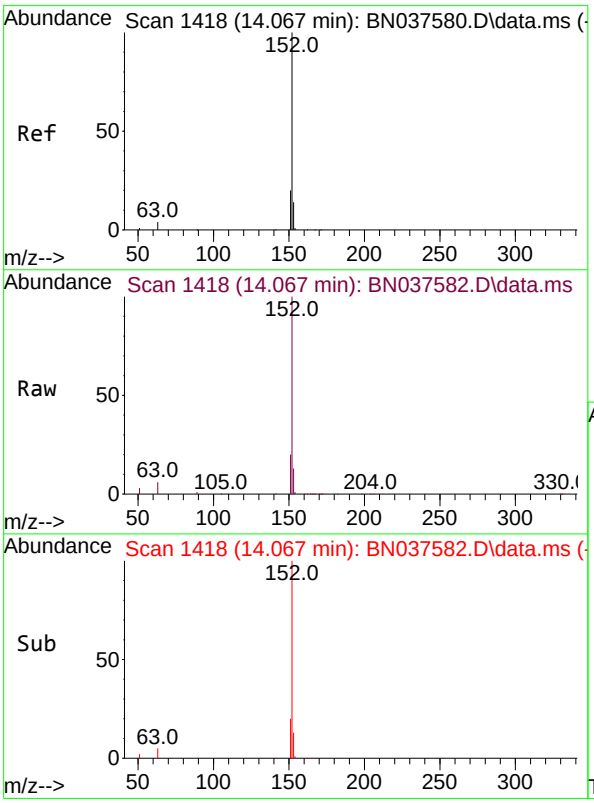
#15
2-Fluorobiphenyl
Concen: 1.619 ng
RT: 12.973 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 23403

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.4
170	23.7	19.2	28.8

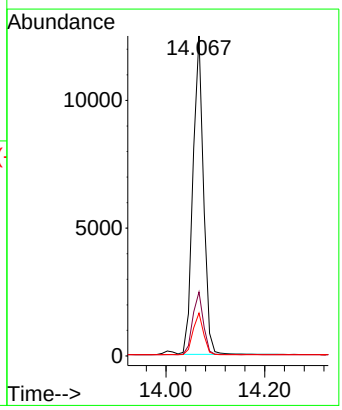


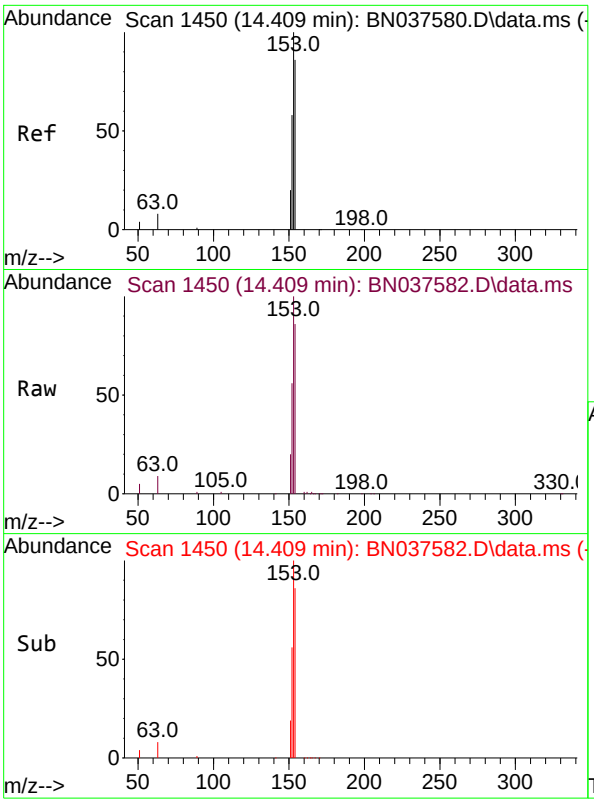


#16
Acenaphthylene
Concen: 1.651 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:152 Resp: 18492

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.1	24.1
153	13.0	10.7	16.1



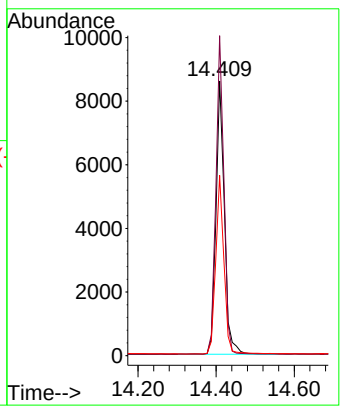


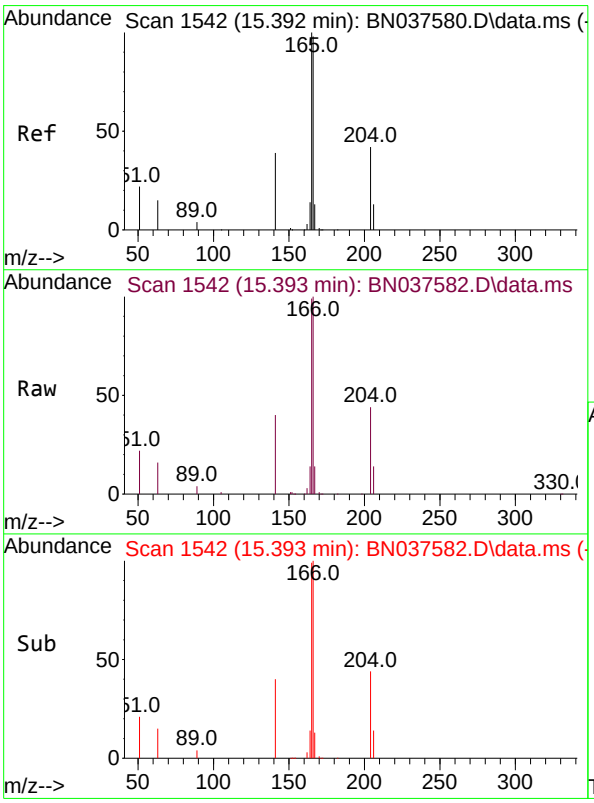
#17
Acenaphthene
Concen: 1.682 ng
RT: 14.409 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 12820

Ion	Ratio	Lower	Upper
154	100		
153	110.6	90.6	135.8
152	63.8	54.9	82.3

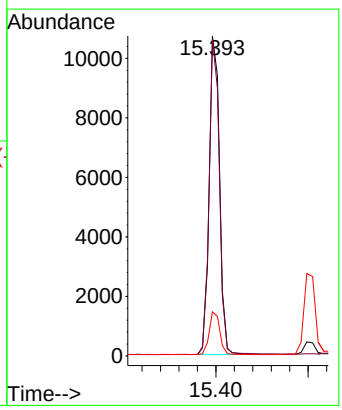


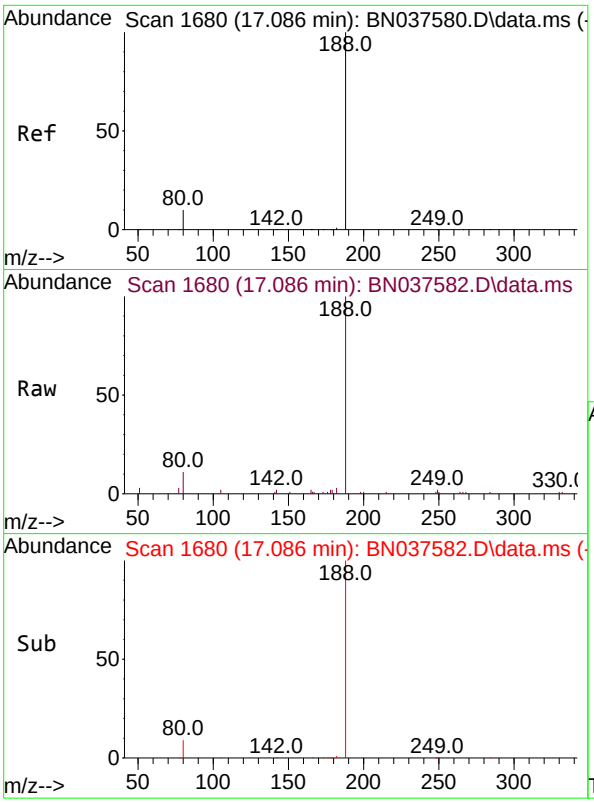


#18
Fluorene
Concen: 1.691 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:166 Resp: 16858

Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.9	118.3
167	13.4	10.7	16.1



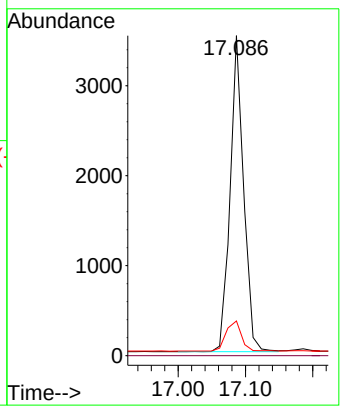


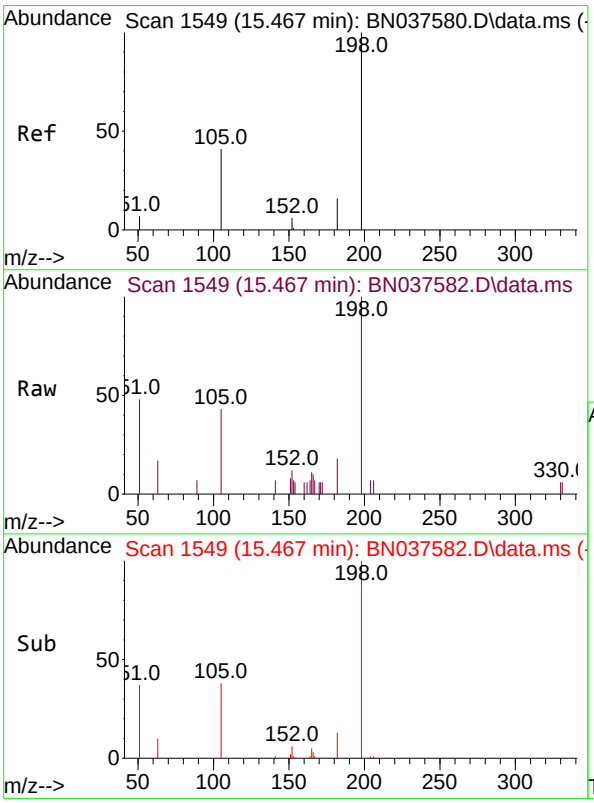
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 4868

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	9.1	13.7

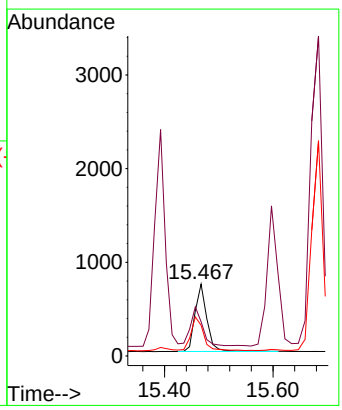


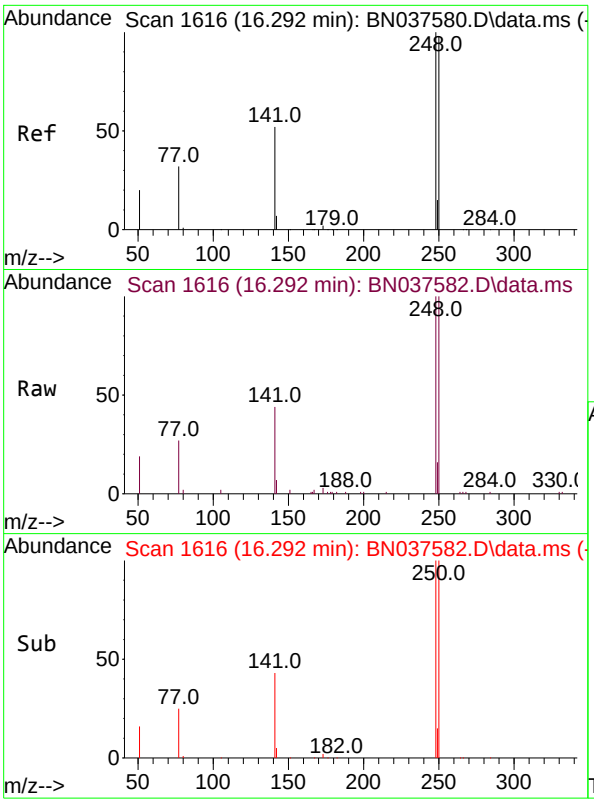


#20
4,6-Dinitro-2-methylphenol
Concen: 1.517 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:198 Resp: 1182

Ion	Ratio	Lower	Upper
198	100		
51	47.6	81.0	121.6#
105	42.8	52.5	78.7#



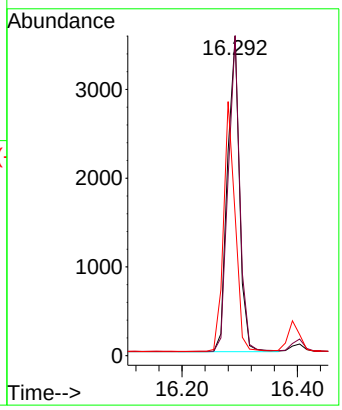


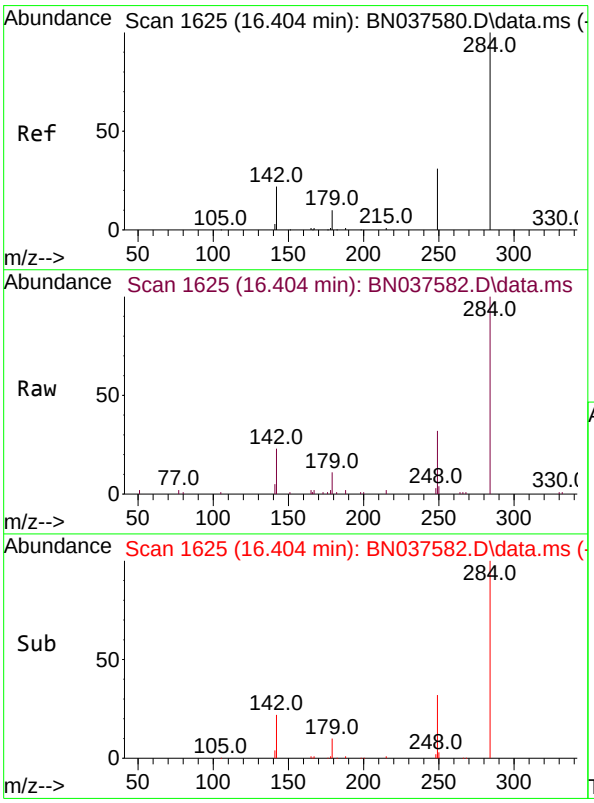
#21
4-Bromophenyl-phenylether
Concen: 1.686 ng
RT: 16.292 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 5158

Ion	Ratio	Lower	Upper
248	100		
250	100.1	78.6	118.0
141	43.9	43.7	65.5

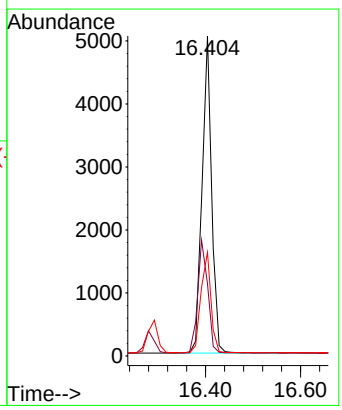


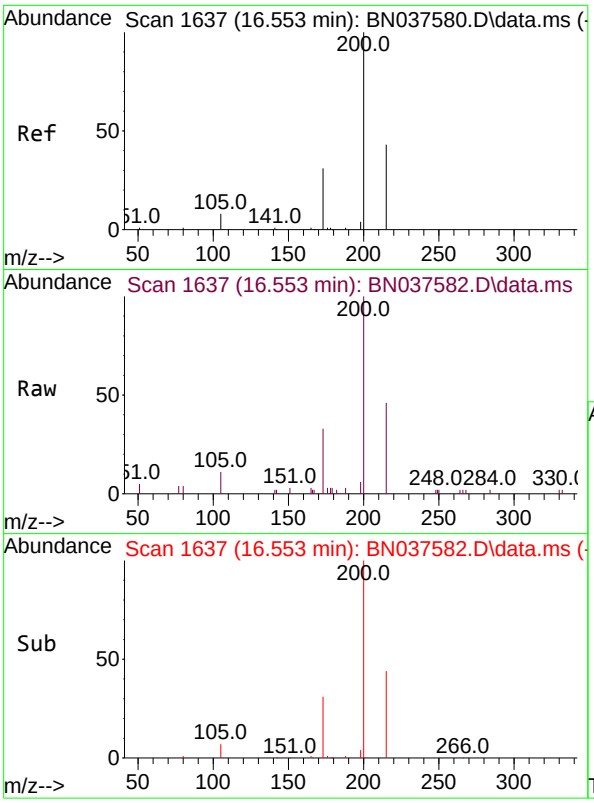


#22
Hexachlorobenzene
Concen: 1.633 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:284 Resp: 7080

Ion	Ratio	Lower	Upper
284	100		
142	37.2	29.8	44.6
249	33.1	26.0	39.0



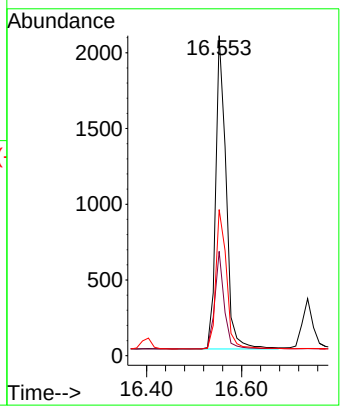


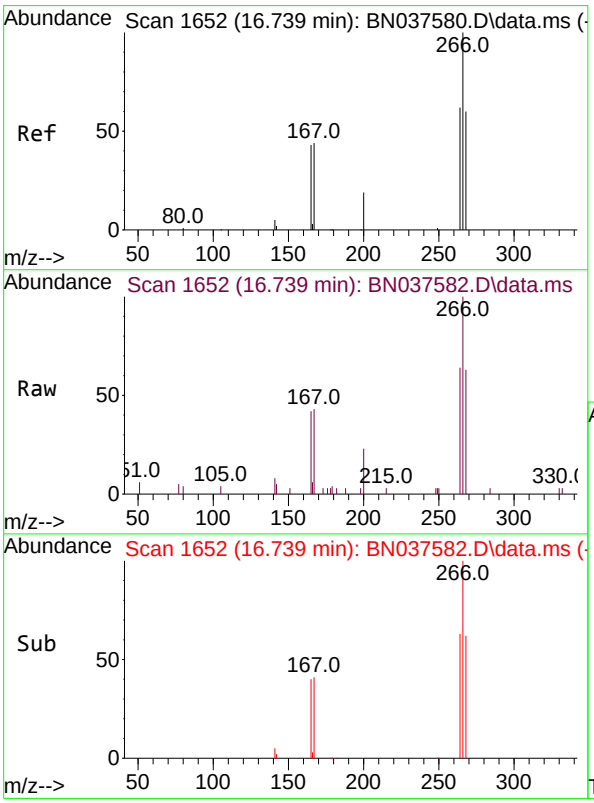
#23
Atrazine
Concen: 1.803 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 3118

Ion	Ratio	Lower	Upper
200	100		
173	32.6	31.0	46.4
215	45.7	39.4	59.0

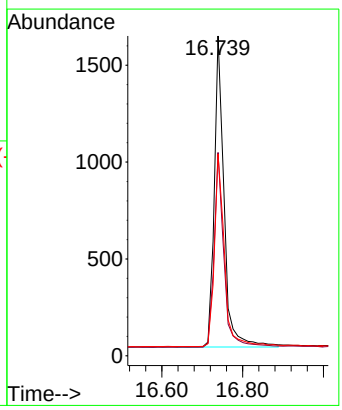


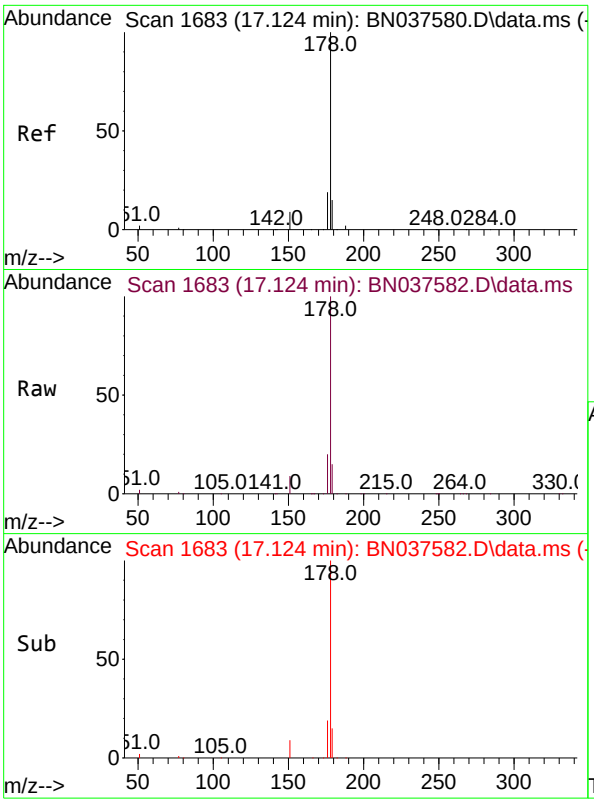


#24
Pentachlorophenol
Concen: 1.775 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:266 Resp: 2704

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.6	74.4
268	63.5	49.2	73.8



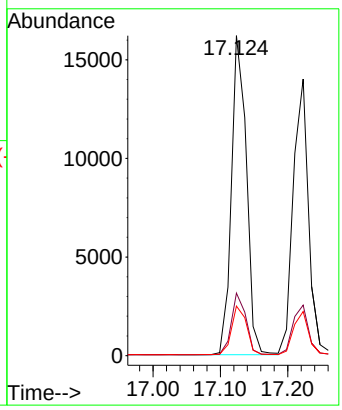


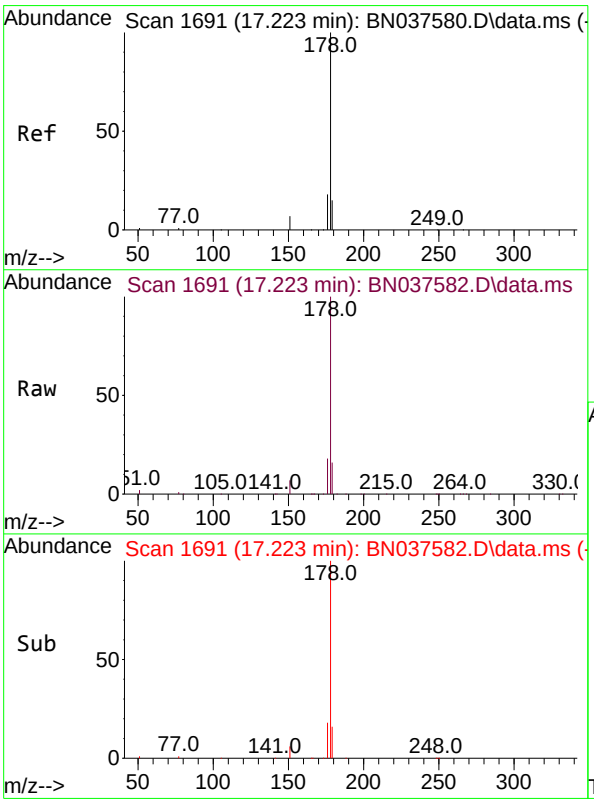
#25
Phenanthrene
Concen: 1.685 ng
RT: 17.124 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 24938

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.4	12.3	18.5

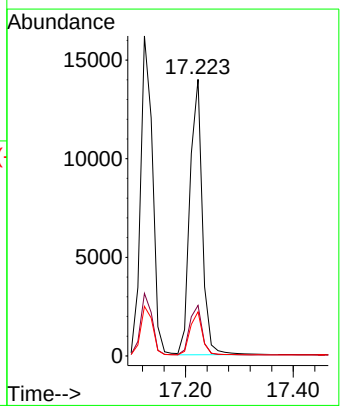


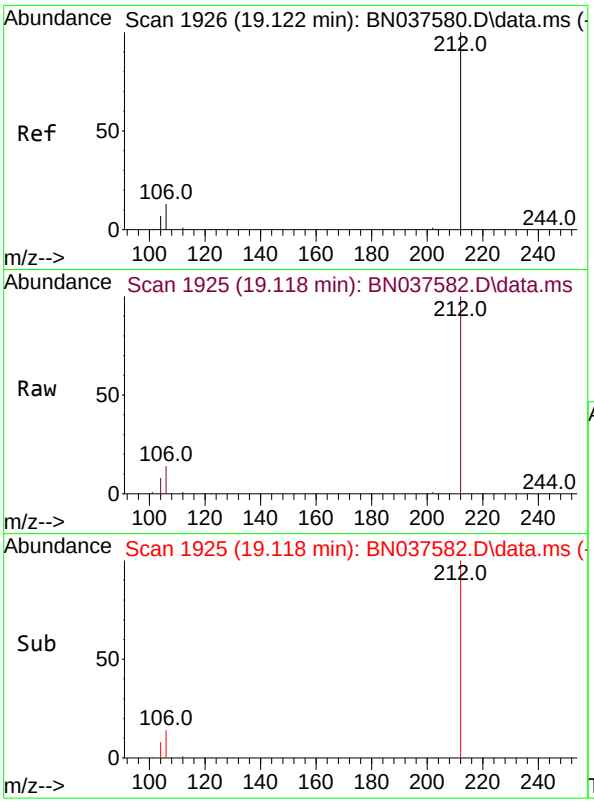


#26
Anthracene
Concen: 1.701 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:178 Resp: 22287

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.7	22.1
179	15.4	12.3	18.5



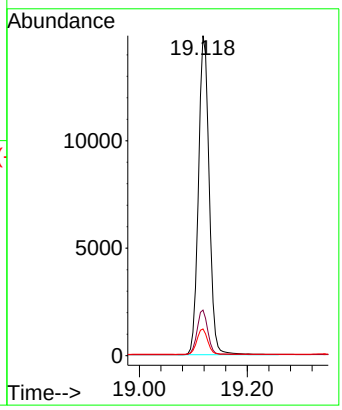


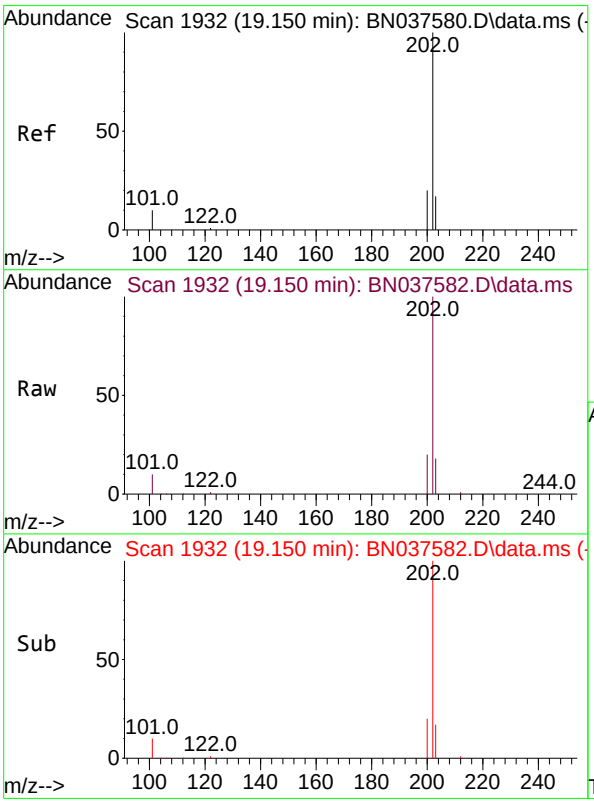
#27
Fluoranthene-d10
Concen: 1.597 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 20450

Ion	Ratio	Lower	Upper
212	100		
106	14.0	11.5	17.3
104	8.0	6.6	9.8

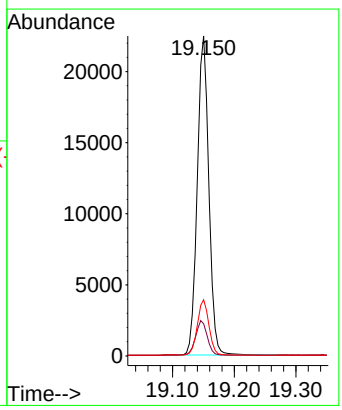


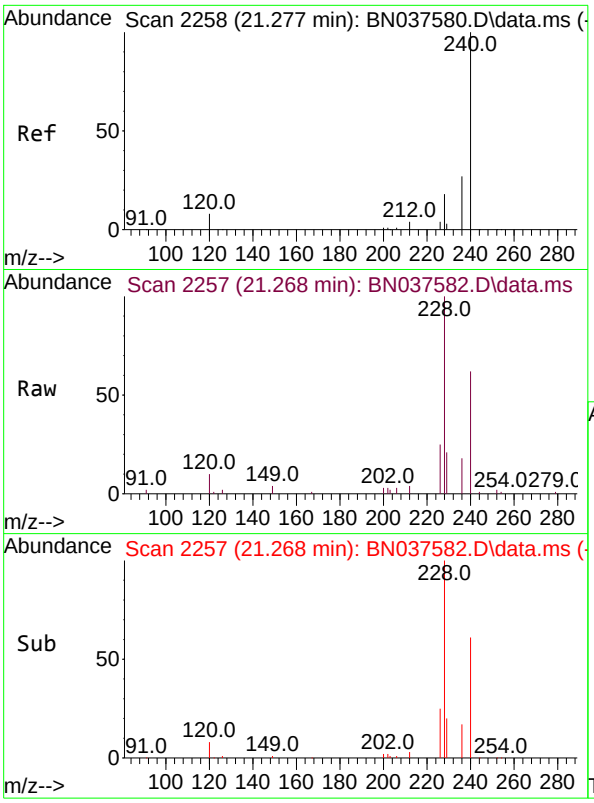


#28
Fluoranthene
Concen: 1.721 ng
RT: 19.150 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:202 Resp: 29263

Ion	Ratio	Lower	Upper
202	100		
101	11.1	9.0	13.6
203	17.4	13.8	20.8



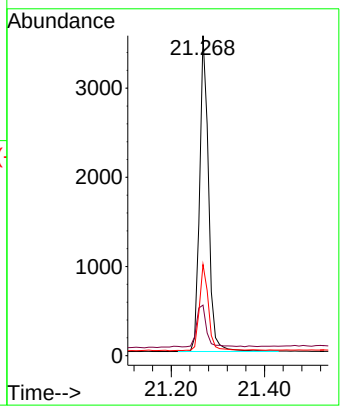


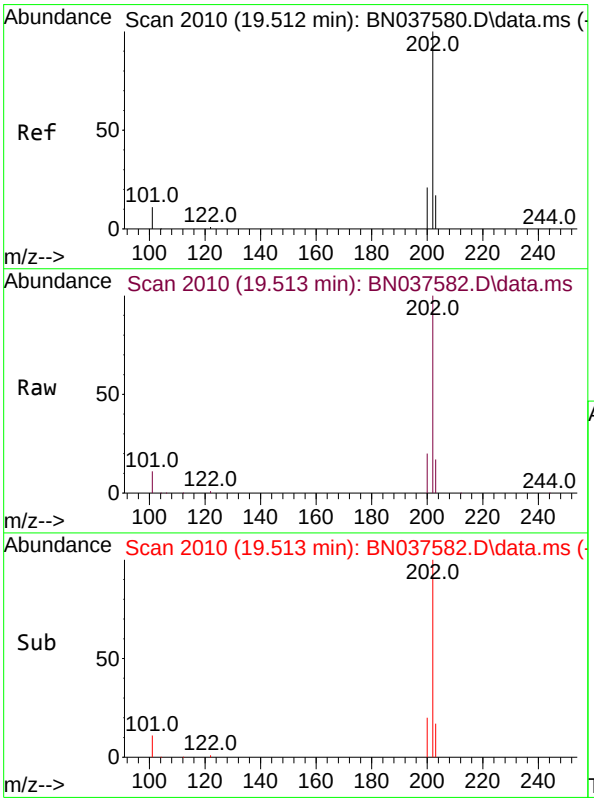
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 4728

Ion	Ratio	Lower	Upper
240	100		
120	15.8	8.9	13.3#
236	28.5	22.6	33.8

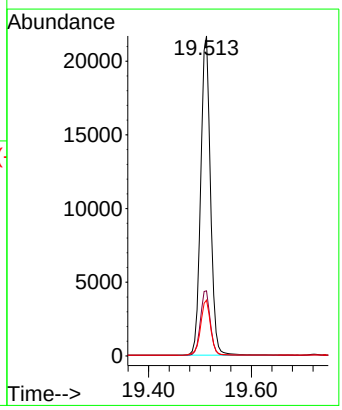


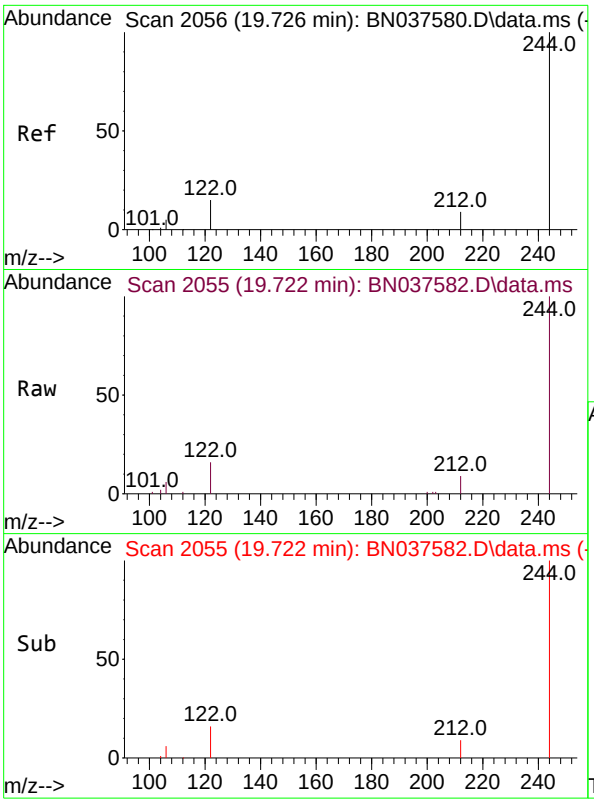


#30
Pyrene
Concen: 1.607 ng
RT: 19.513 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:202 Resp: 28406

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.6	25.0
203	17.6	14.3	21.5



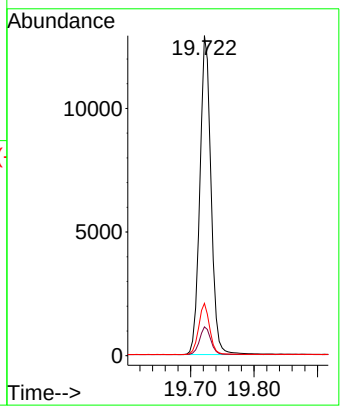


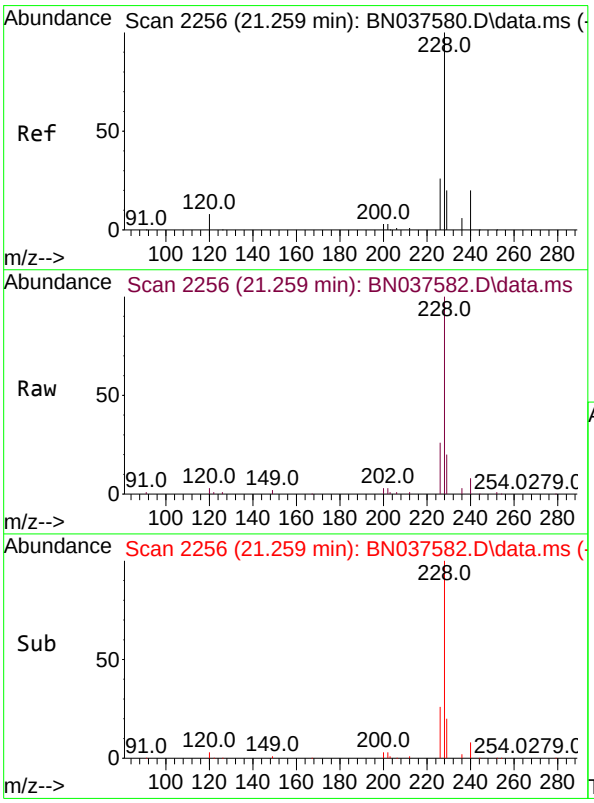
#31
Terphenyl-d14
Concen: 1.620 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 15761

Ion	Ratio	Lower	Upper
244	100		
212	9.0	8.2	12.2
122	16.3	13.2	19.8

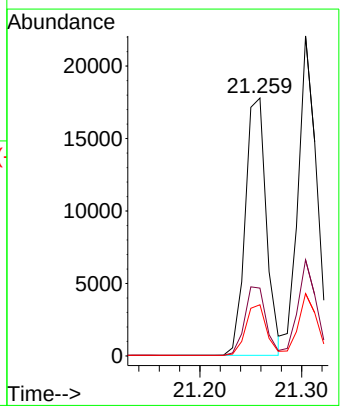


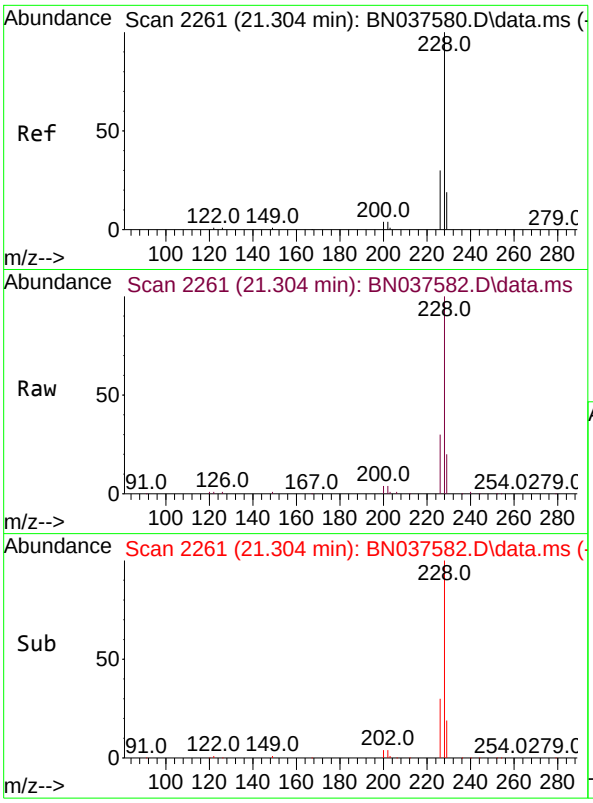


#32
Benzo(a)anthracene
Concen: 1.618 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:228 Resp: 25547

Ion	Ratio	Lower	Upper
228	100		
226	26.3	21.5	32.3
229	19.9	16.5	24.7



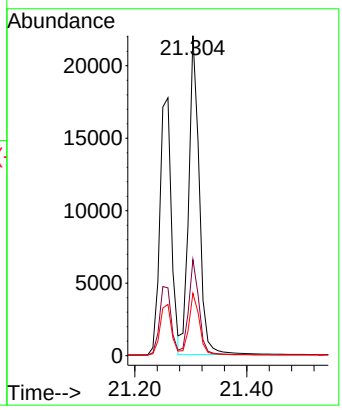


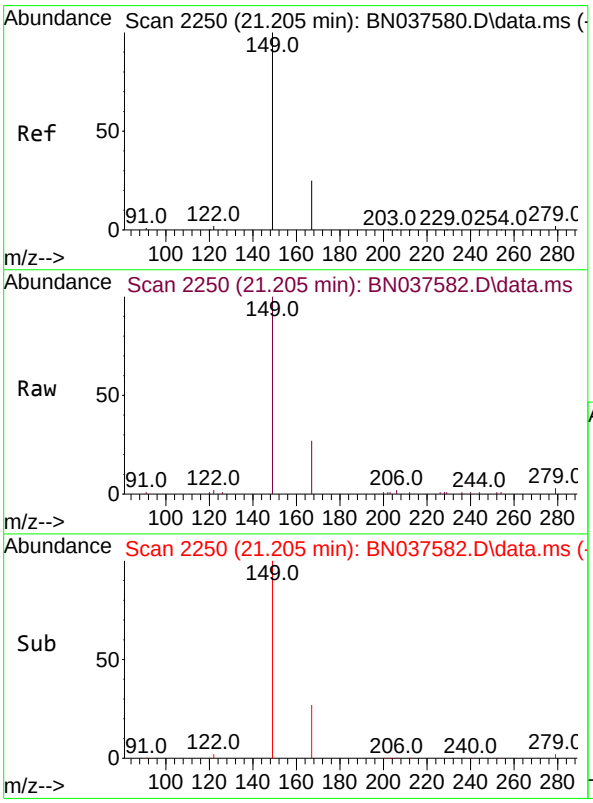
#33
Chrysene
Concen: 1.624 ng
RT: 21.304 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 28577

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.9	37.3
229	19.5	15.8	23.8

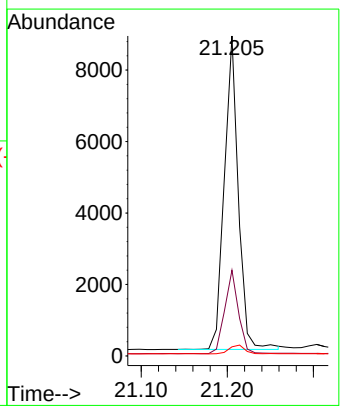


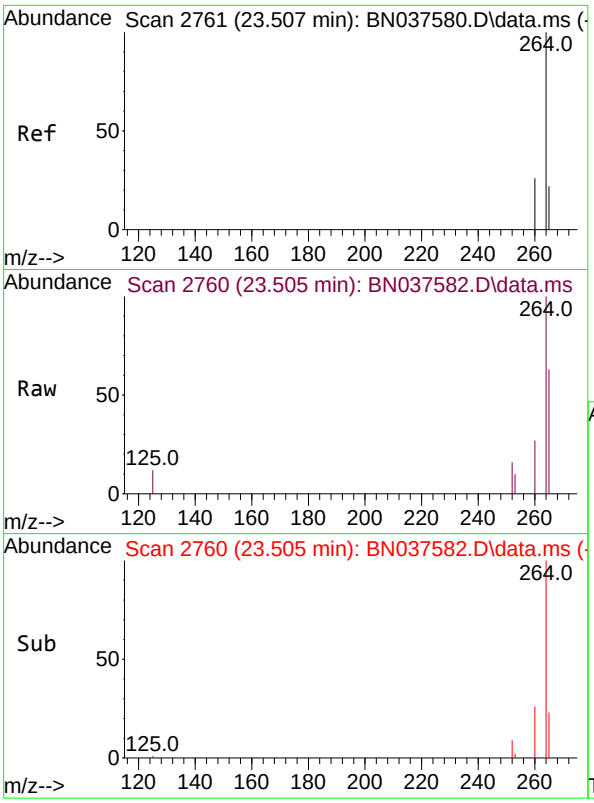


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.514 ng
RT: 21.205 min Scan# 2250
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:149 Resp: 9868

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.5	30.7
279	3.1	2.6	4.0



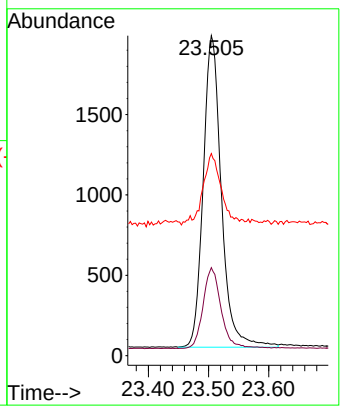


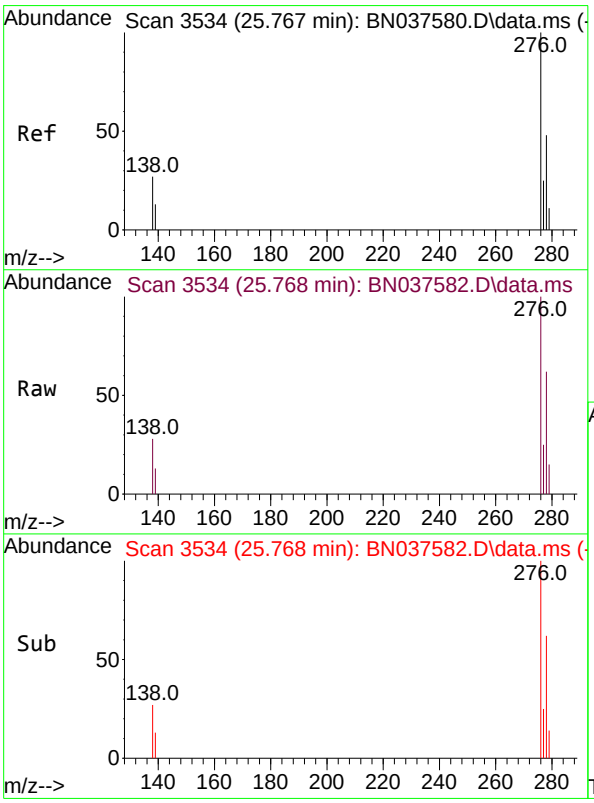
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.505 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 4054

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.6	32.4
265	63.1	48.2	72.4

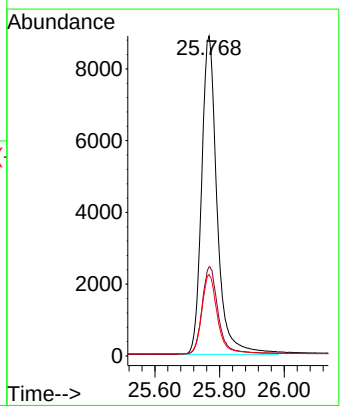


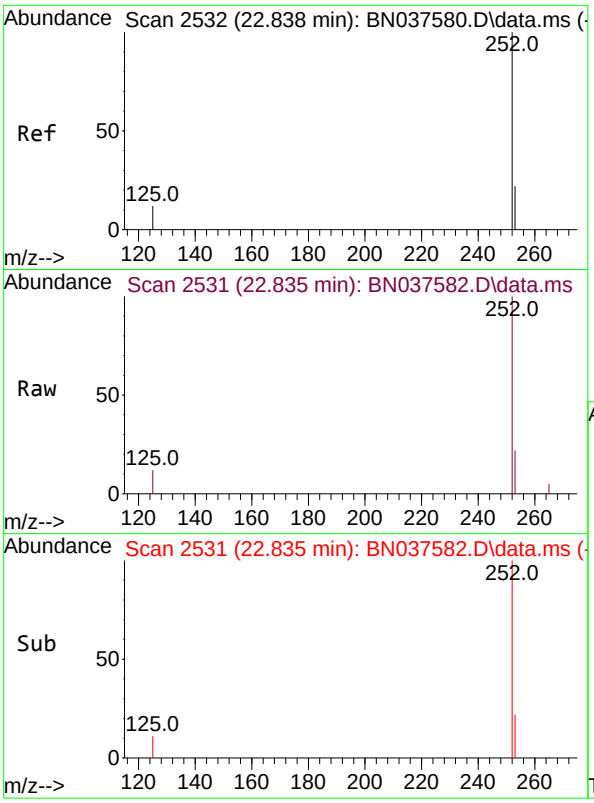


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.724 ng
RT: 25.768 min Scan# 3534
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:276 Resp: 29448

Ion	Ratio	Lower	Upper
276	100		
138	28.3	23.3	34.9
277	25.0	19.5	29.3



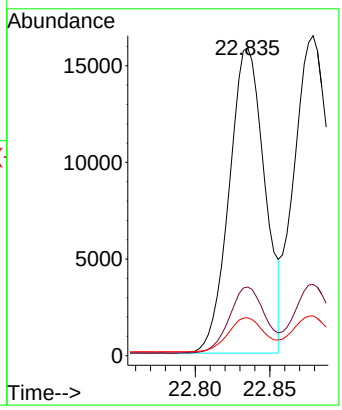


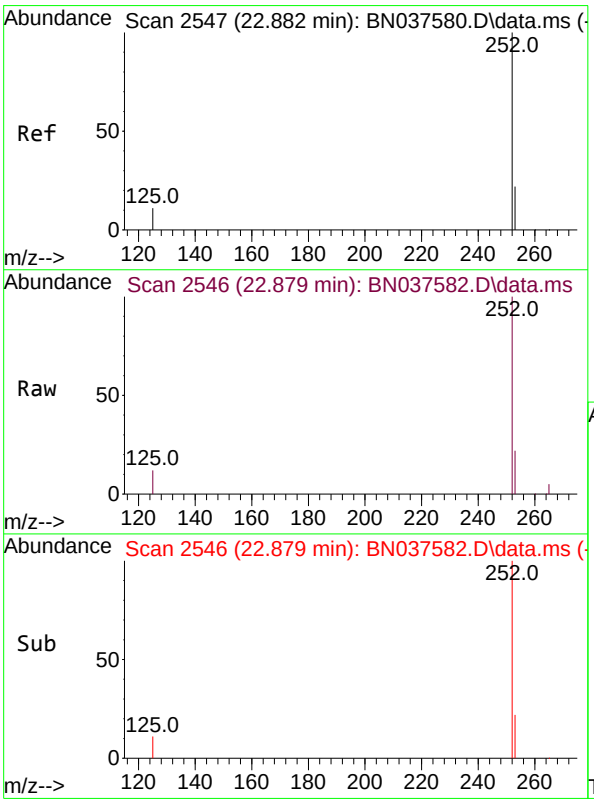
#37
Benzo(b)fluoranthene
Concen: 1.705 ng
RT: 22.835 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 26189

Ion	Ratio	Lower	Upper
252	100		
253	22.3	20.0	30.0
125	12.3	13.8	20.6#

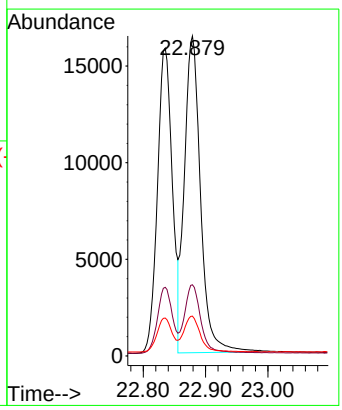


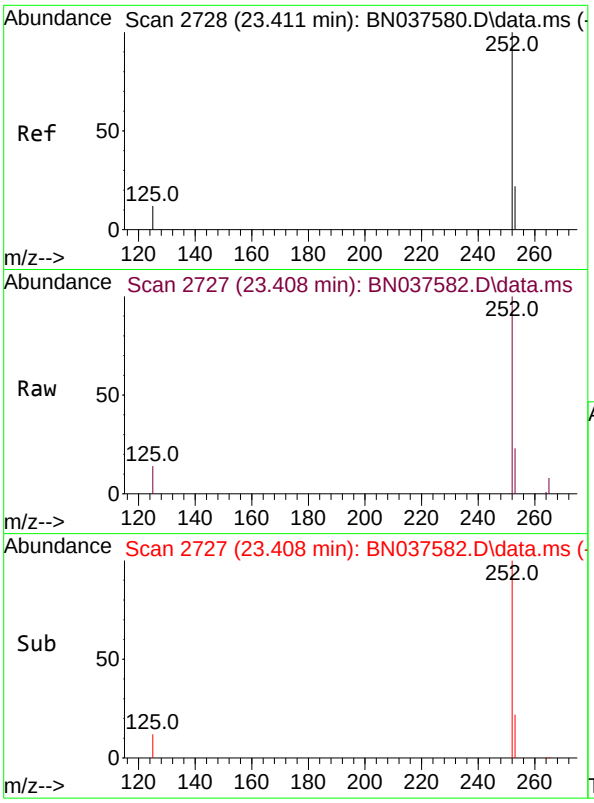


#38
Benzo(k)fluoranthene
Concen: 1.703 ng
RT: 22.879 min Scan# 2546
Delta R.T. -0.003 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:252 Resp: 29528

Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.9	29.9
125	12.5	15.0	22.6#



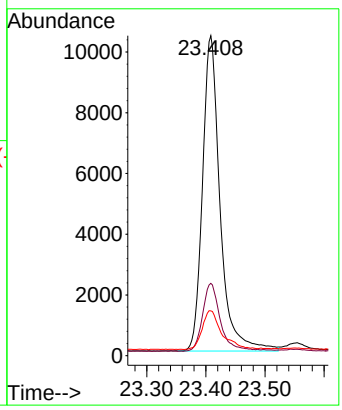


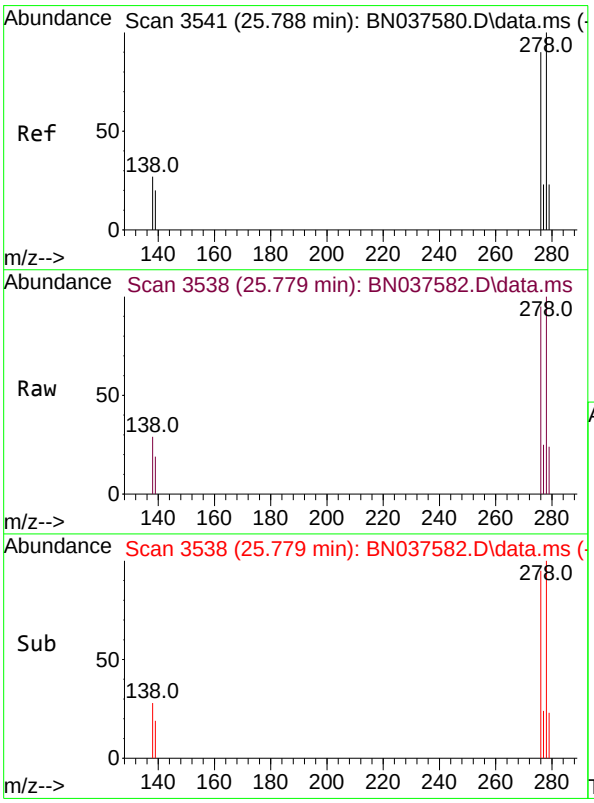
#39
Benzo(a)pyrene
Concen: 1.683 ng
RT: 23.408 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 21441

Ion	Ratio	Lower	Upper
252	100		
253	22.6	21.6	32.4
125	14.0	16.8	25.2#

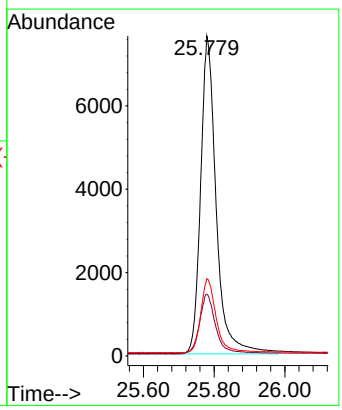


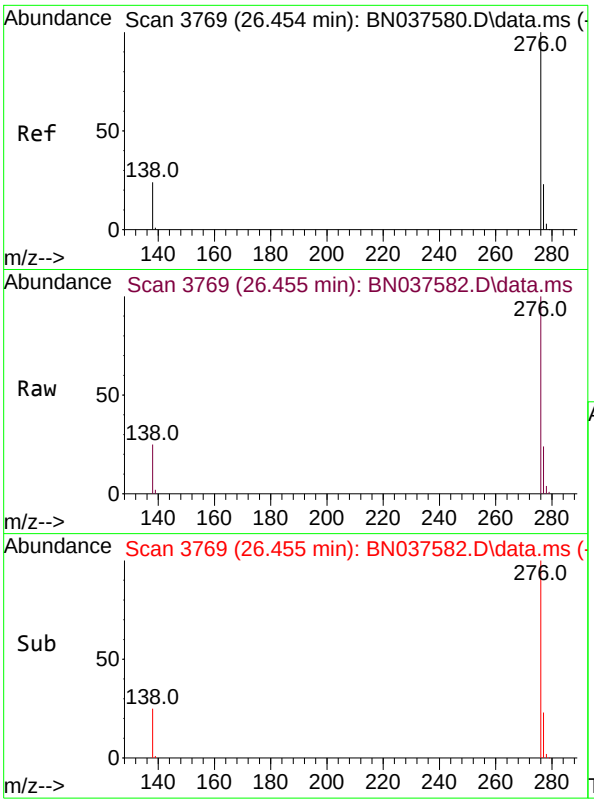


#40
Dibenzo(a,h)anthracene
Concen: 1.761 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.009 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:278 Resp: 23334

Ion	Ratio	Lower	Upper
278	100		
139	19.3	18.3	27.5
279	24.2	22.5	33.7





#41
Benzo(g,h,i)perylene
Concen: 1.703 ng
RT: 26.455 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 23781

Ion	Ratio	Lower	Upper
276	100		
277	24.1	21.0	31.4
138	25.2	21.7	32.5