Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037865.D
Acq On : 23 Sep 2025 14:38
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.825	152	5367	0.400	ng		0.00
7) Naphthalene-d8	10.626	136	15494	0.400	ng		0.00
13) Acenaphthene-d10	14.473	164	8404	0.400	ng		0.00
19) Phenanthrene-d10	17.223	188	15875	0.400	ng		0.00
29) Chrysene-d12	21.402	240	14963	0.400	ng		0.00
35) Perylene-d12	23.735	264	12917	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.391	112	19493	1.592	ng		0.00
5) Phenol-d6	6.973	99	26005	1.616	ng		0.00
8) Nitrobenzene-d5	8.971	82	19230	1.627	ng		0.00
11) 2-Methylnaphthalene-d10	12.217	152	34256	1.592	ng		0.00
14) 2,4,6-Tribromophenol	15.969	330	5471	1.613	ng		0.00
15) 2-Fluorobiphenyl	13.094	172	55598	1.616	ng		0.00
27) Fluoranthene-d10	19.252	212	63771	1.597	ng		0.00
31) Terphenyl-d14	19.852	244	47765	1.603	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.297	88	9123	1.674	ng		98
3) n-Nitrosodimethylamine	3.600	42	12048	1.662	ng	#	89
6) bis(2-Chloroethyl)ether	7.240	93	24687	1.653	ng		100
9) Naphthalene	10.679	128	69620	1.631	ng		98
10) Hexachlorobutadiene	10.978	225	11899	1.634	ng	#	100
12) 2-Methylnaphthalene	12.293	142	46704	1.675	ng		99
16) Acenaphthylene	14.195	152	64093	1.680	ng		100
17) Acenaphthene	14.537	154	45411	1.670	ng		97
18) Fluorene	15.522	166	55922	1.701	ng		100
20) 4,6-Dinitro-2-methylph...	15.597	198	3669	1.602	ng	#	64
21) 4-Bromophenyl-phenylether	16.416	248	17278	1.670	ng		98
22) Hexachlorobenzene	16.540	284	20548	1.638	ng		99
23) Atrazine	16.689	200	13043	1.656	ng		97
24) Pentachlorophenol	16.875	266	7393	1.718	ng		98
25) Phenanthrene	17.260	178	86207	1.650	ng		99
26) Anthracene	17.359	178	76744	1.693	ng		100
28) Fluoranthene	19.285	202	98772	1.717	ng		99
30) Pyrene	19.647	202	96189	1.628	ng		100
32) Benzo(a)anthracene	21.384	228	85145	1.628	ng		99
33) Chrysene	21.438	228	93309	1.650	ng		100
34) Bis(2-ethylhexyl)phtha...	21.330	149	31032	1.500	ng		98
36) Indeno(1,2,3-cd)pyrene	26.112	276	97476	1.652	ng		99
37) Benzo(b)fluoranthene	23.028	252	93525	1.679	ng	#	94
38) Benzo(k)fluoranthene	23.075	252	96868	1.728	ng	#	94
39) Benzo(a)pyrene	23.630	252	73009	1.657	ng	#	90
40) Dibenzo(a,h)anthracene	26.127	278	77237	1.676	ng		97
41) Benzo(g,h,i)perylene	26.835	276	78576	1.623	ng		98

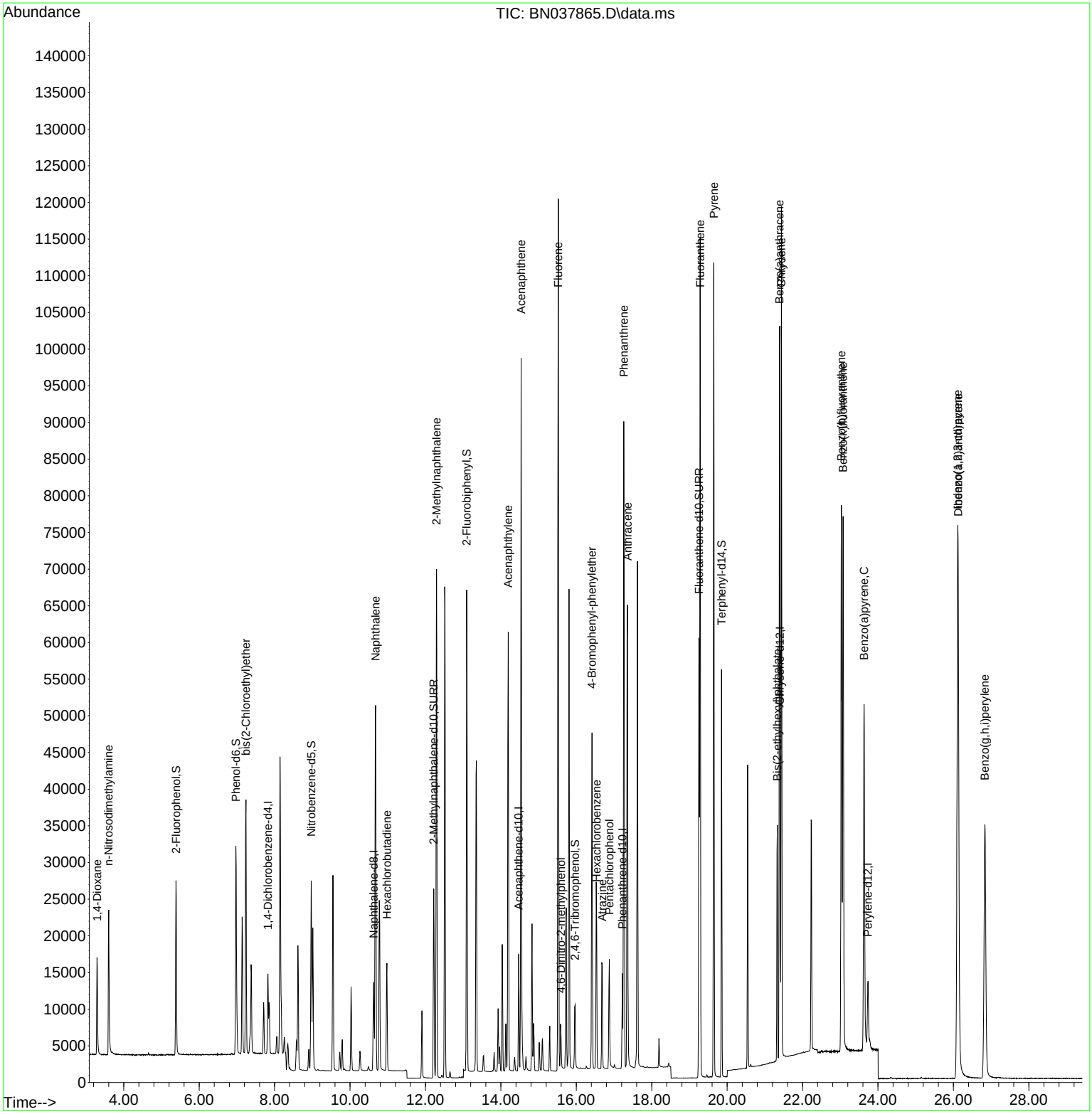
(#) = qualifier out of range (m) = manual integration (+) = signals summed

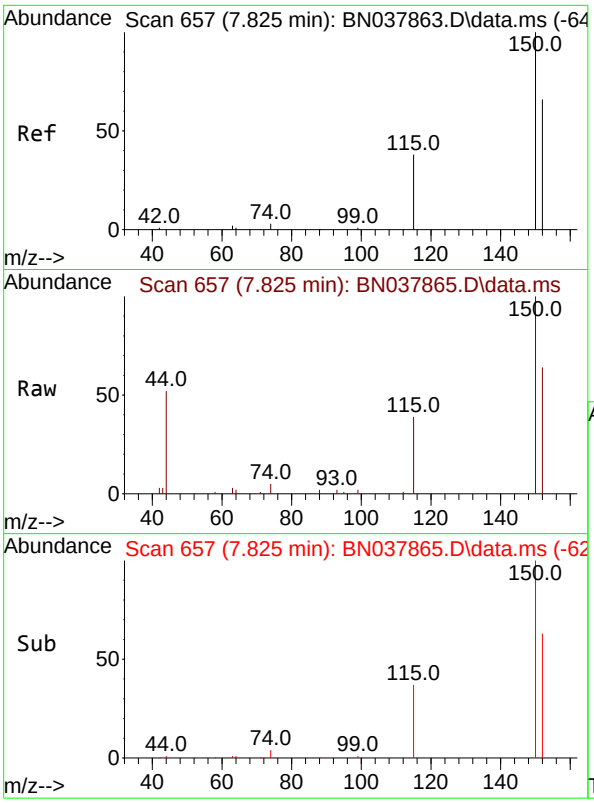
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037865.D
Acq On : 23 Sep 2025 14:38
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



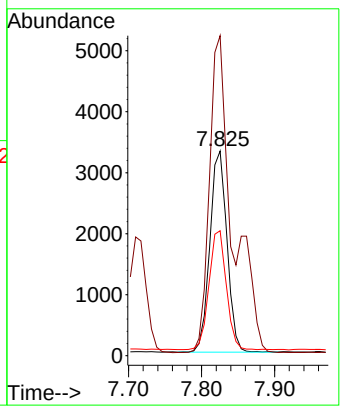


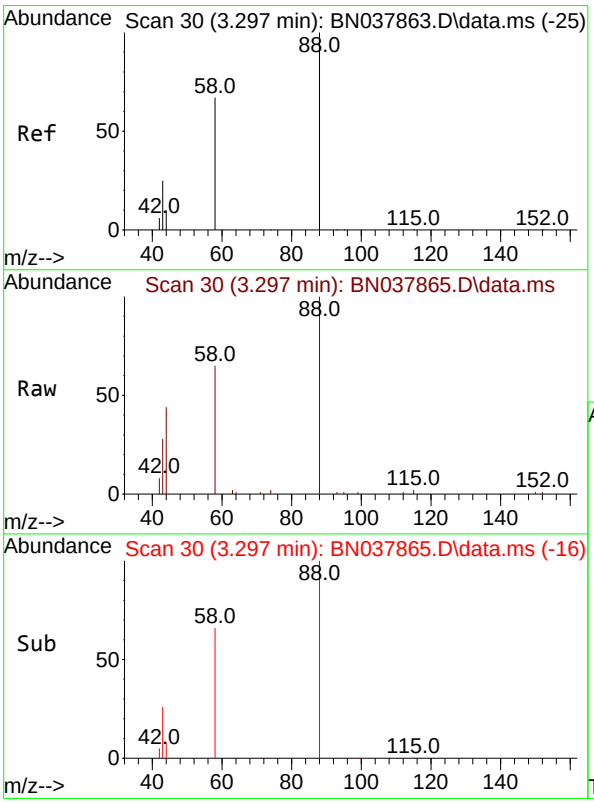
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 5367

Ion	Ratio	Lower	Upper
152	100		
150	156.4	121.0	181.4
115	61.0	47.4	71.0

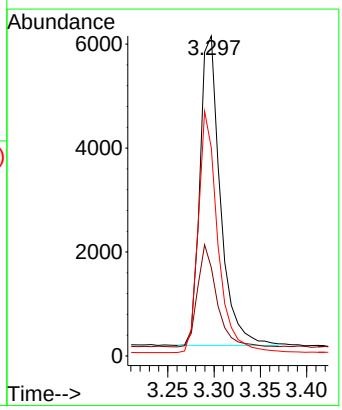


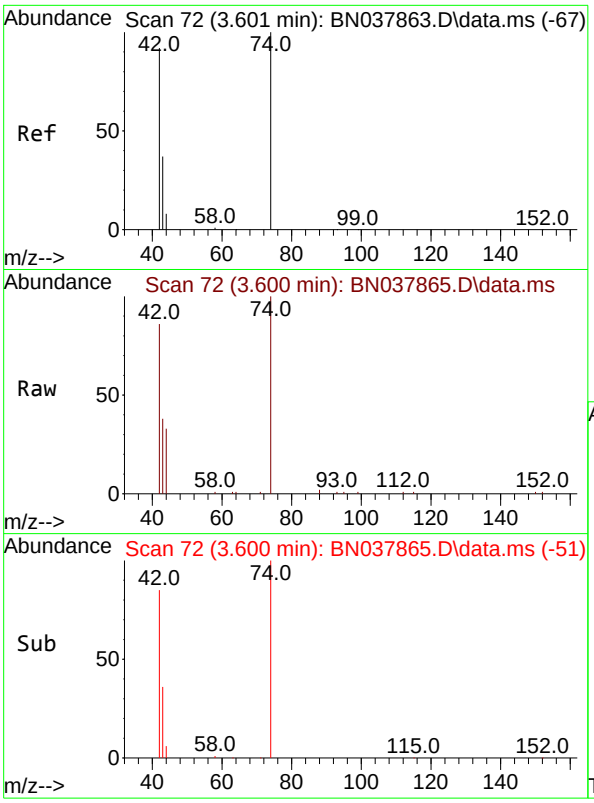


#2
1,4-Dioxane
Concen: 1.674 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 88 Resp: 9123

Ion	Ratio	Lower	Upper
88	100		
43	31.3	26.6	39.8
58	74.6	58.9	88.3



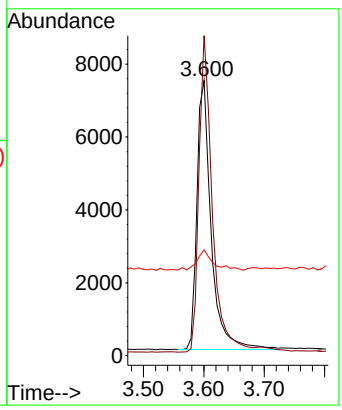


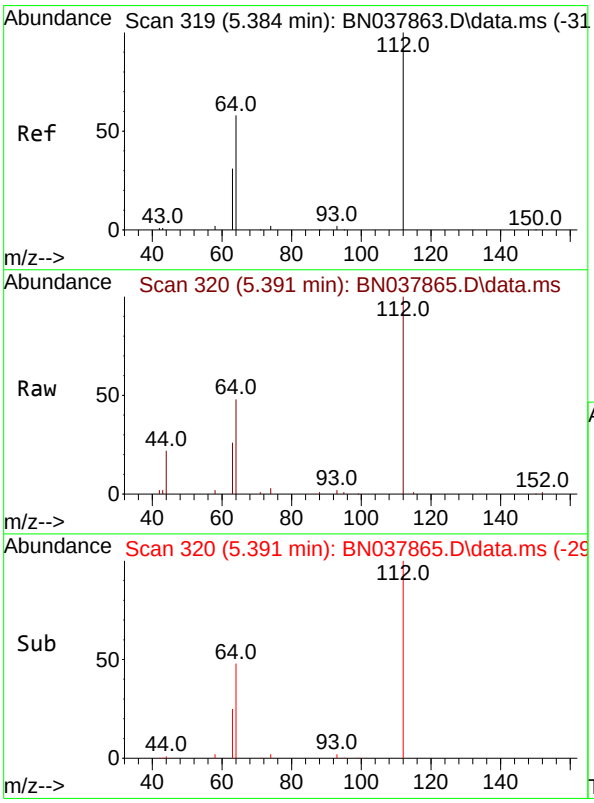
#3
n-Nitrosodimethylamine
Concen: 1.662 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 12048

Ion	Ratio	Lower	Upper
42	100		
74	110.9	93.4	140.0
44	8.4	22.2	33.4#

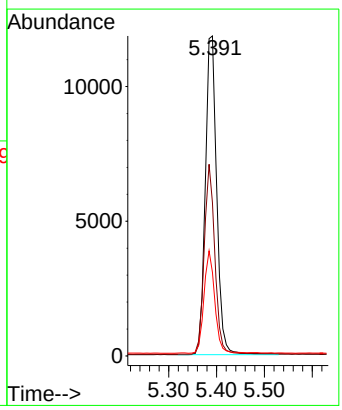


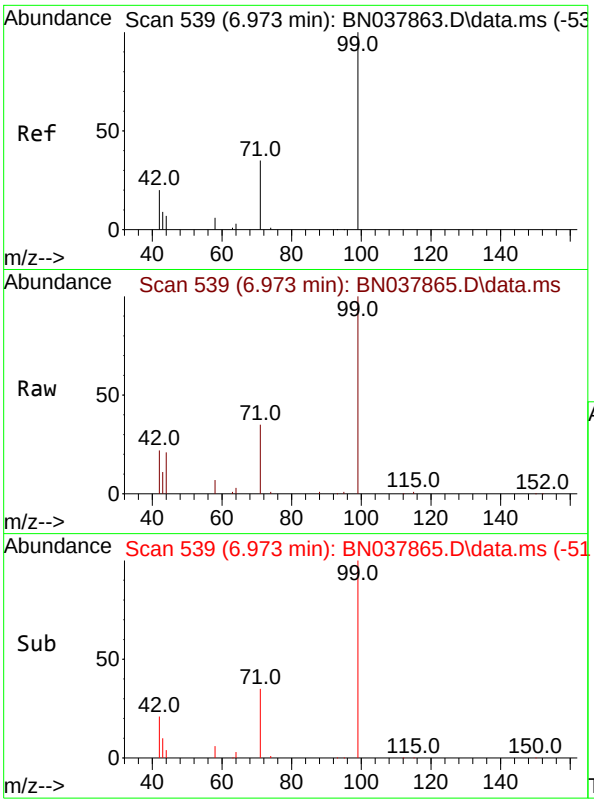


#4
2-Fluorophenol
Concen: 1.592 ng
RT: 5.391 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:112 Resp: 19493

Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.6	66.8
63	30.3	24.9	37.3



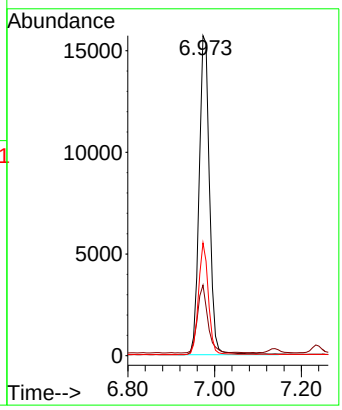


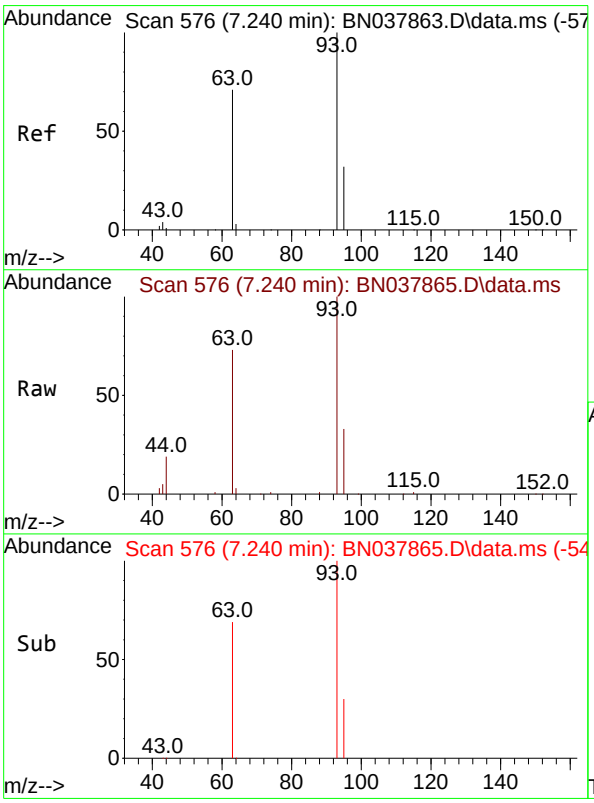
#5
Phenol-d6
Concen: 1.616 ng
RT: 6.973 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 26005

Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.5	27.3	40.9

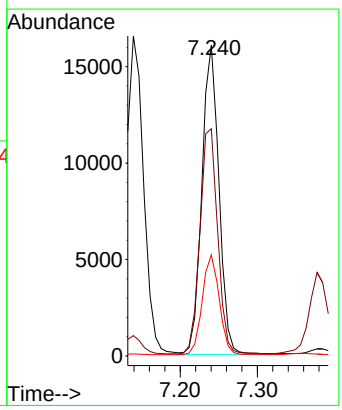


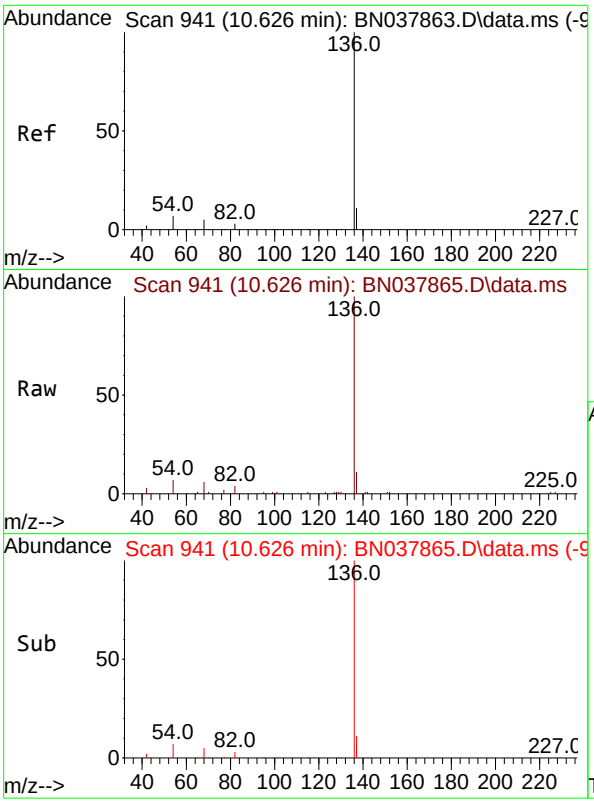


#6
bis(2-Chloroethyl)ether
Concen: 1.653 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 93 Resp: 24687

Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.1	90.1
95	32.1	25.4	38.2



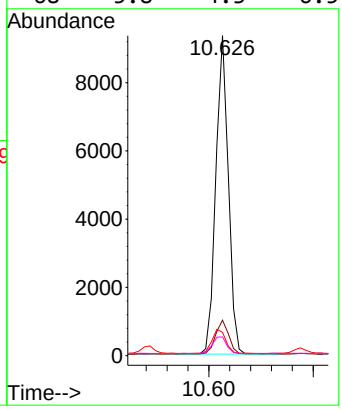


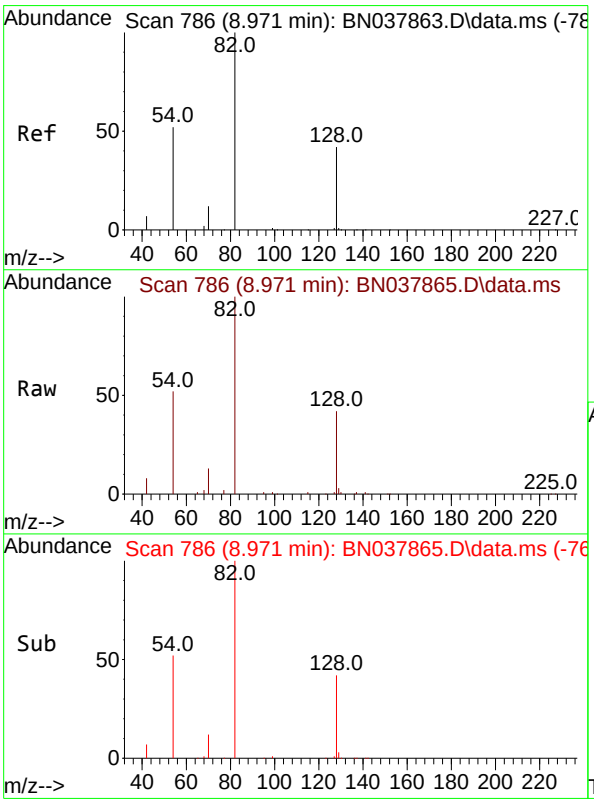
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 15494

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.3	5.8	8.8
68	5.8	4.3	6.5

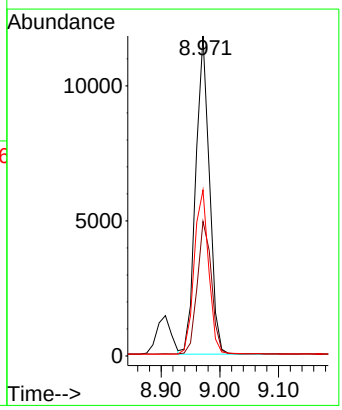


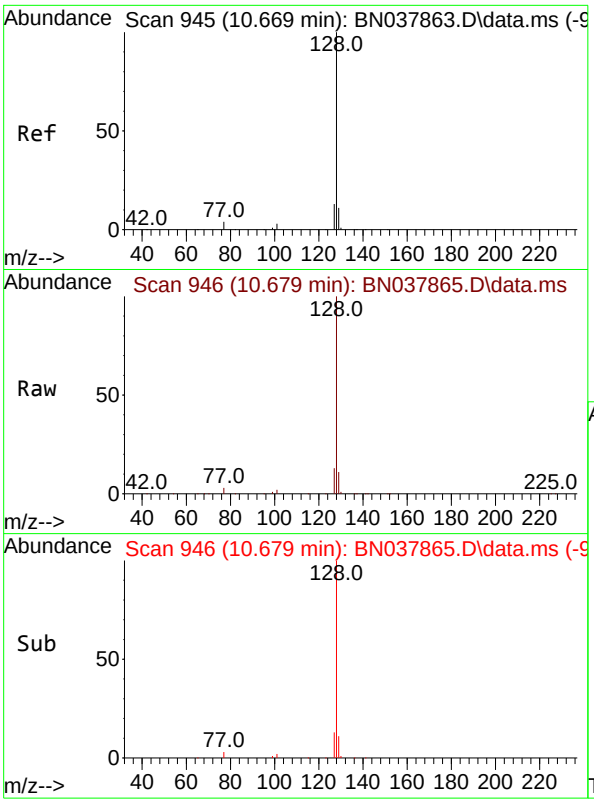


#8
Nitrobenzene-d5
Concen: 1.627 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 82 Resp: 19230

Ion	Ratio	Lower	Upper
82	100		
128	42.0	34.8	52.2
54	51.9	42.2	63.2



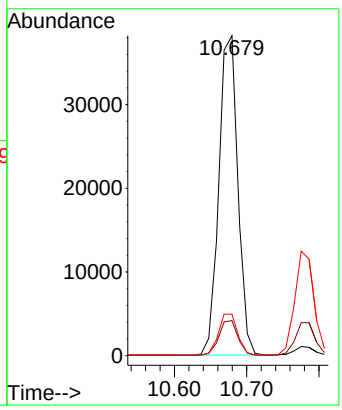


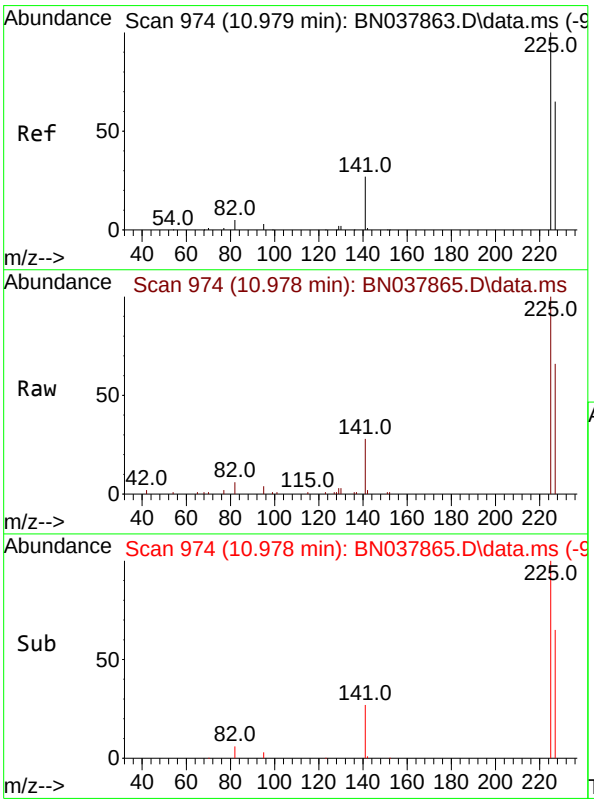
#9
Naphthalene
Concen: 1.631 ng
RT: 10.679 min Scan# 94
Delta R.T. 0.010 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 69620

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.2	13.8
127	13.0	11.0	16.6

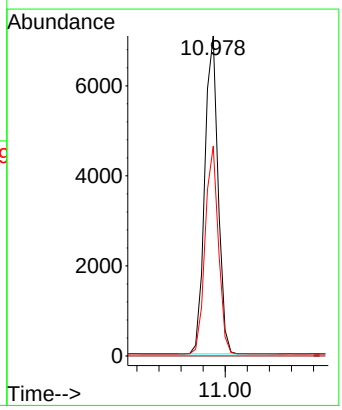


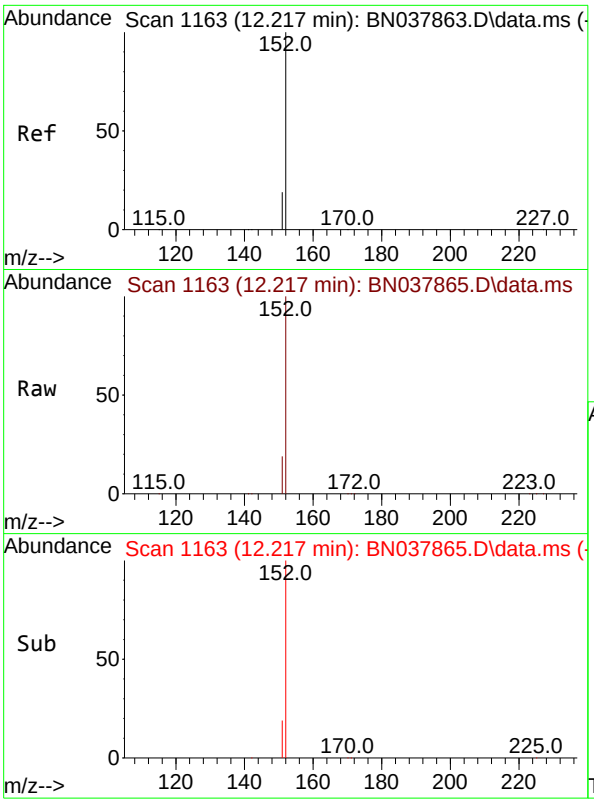


#10
Hexachlorobutadiene
Concen: 1.634 ng
RT: 10.978 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:225 Resp: 11899

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	51.4	77.2



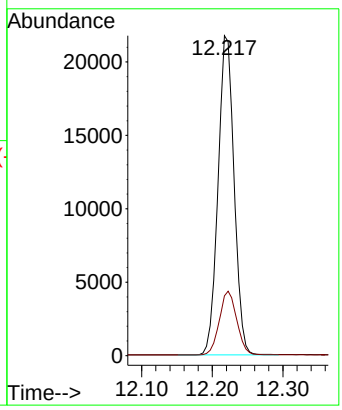


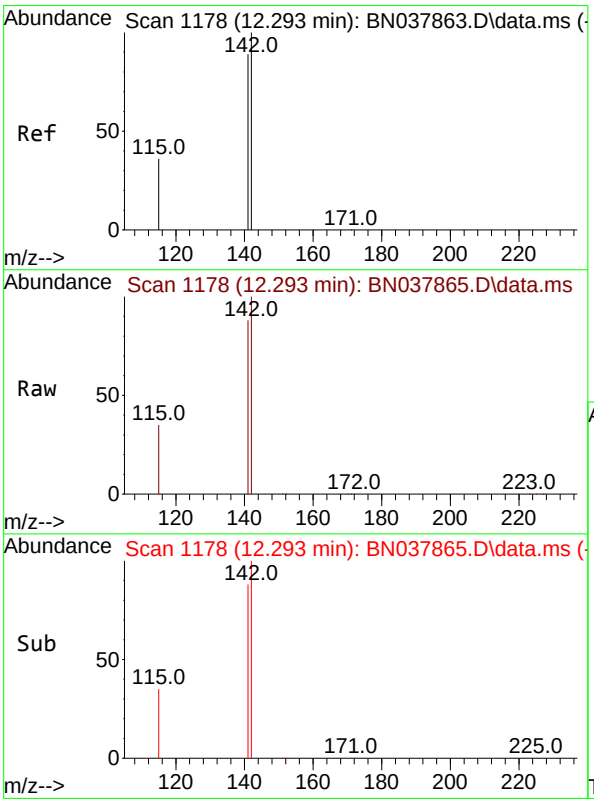
#11
2-Methylnaphthalene-d10
Concen: 1.592 ng
RT: 12.217 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 34256

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.4	26.2

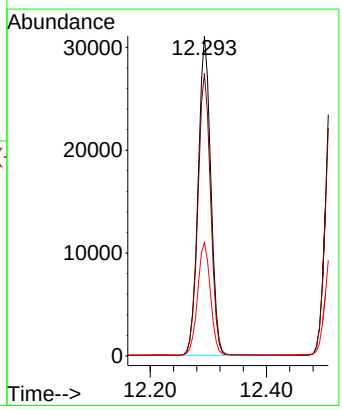


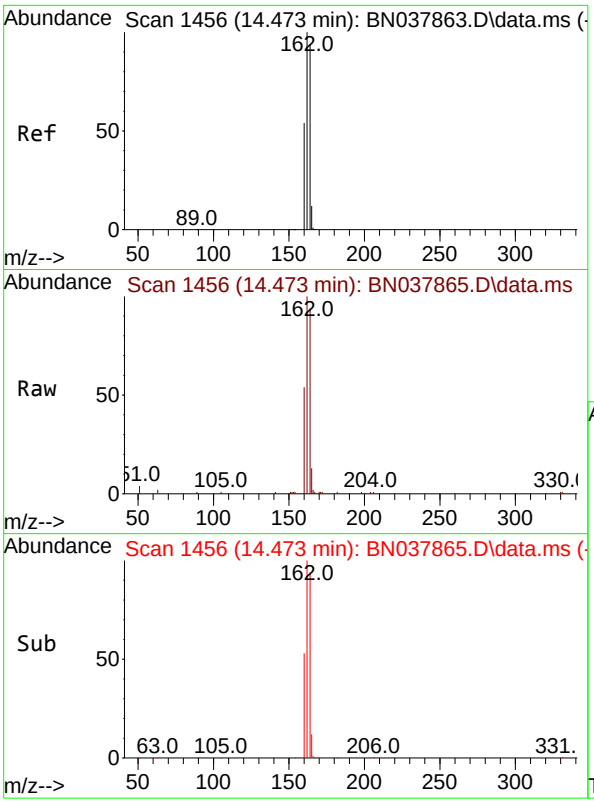


#12
2-Methylnaphthalene
Concen: 1.675 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:142 Resp: 46704

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.2	106.8
115	35.4	29.7	44.5



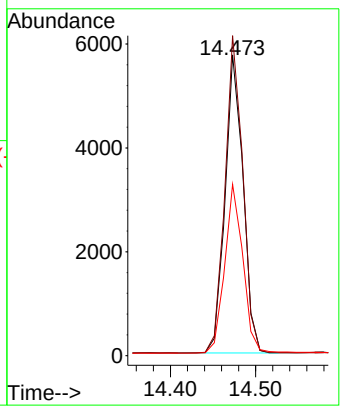


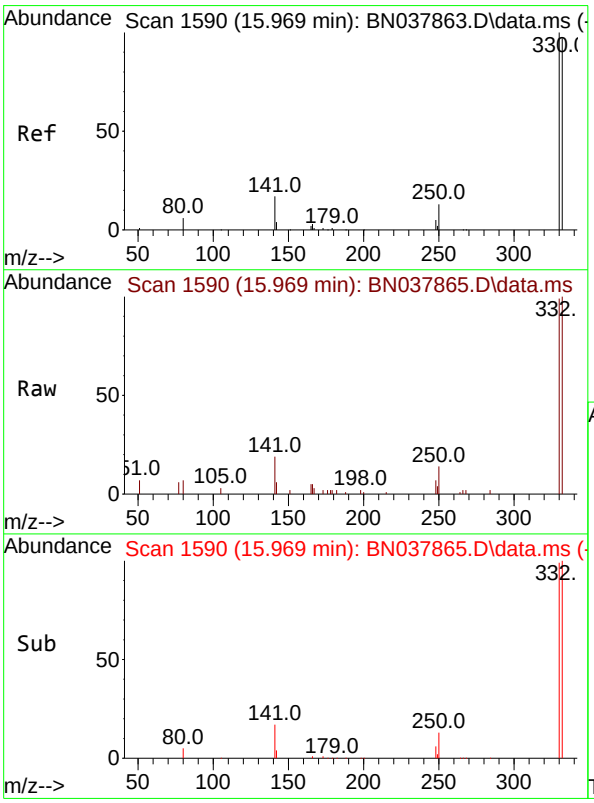
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 8404

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.8	127.2
160	57.0	46.1	69.1

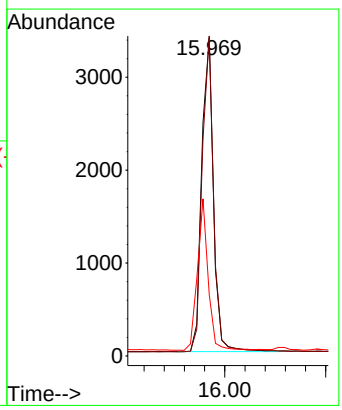


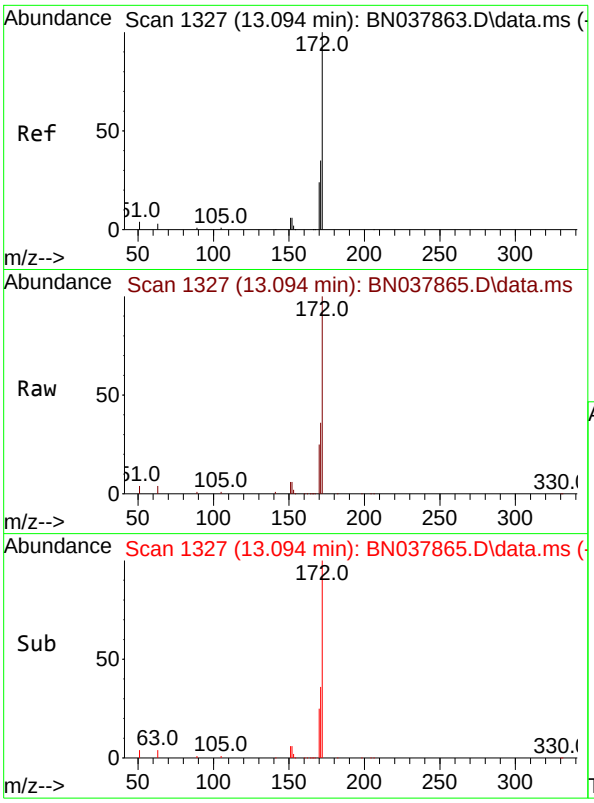


#14
2,4,6-Tribromophenol
Concen: 1.613 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:330 Resp: 5471

Ion	Ratio	Lower	Upper
330	100		
332	98.1	77.2	115.8
141	44.0	37.2	55.8



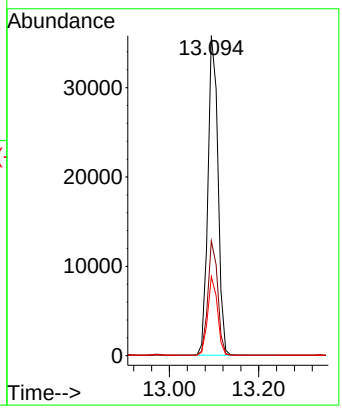


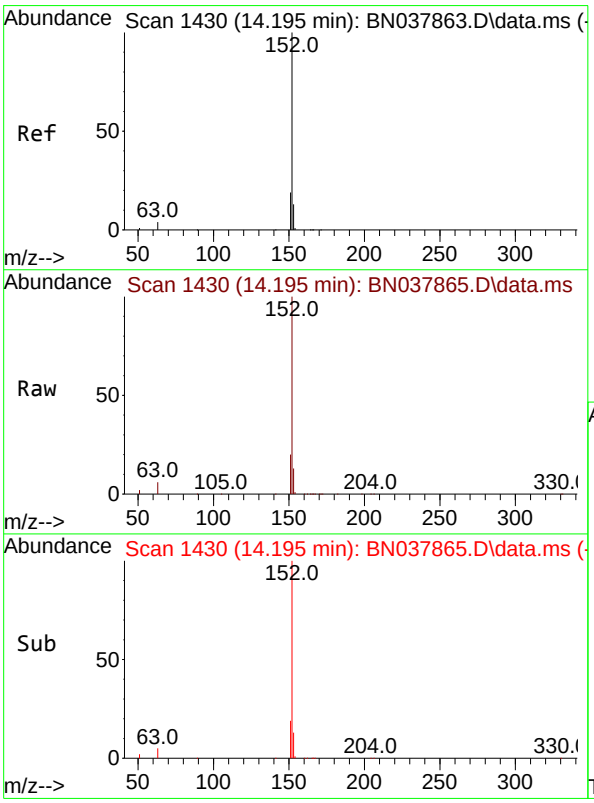
#15
2-Fluorobiphenyl
Concen: 1.616 ng
RT: 13.094 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 55598

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.7	19.7	29.5

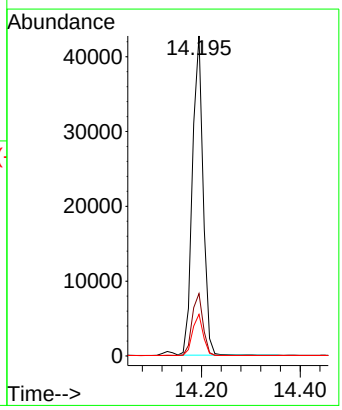


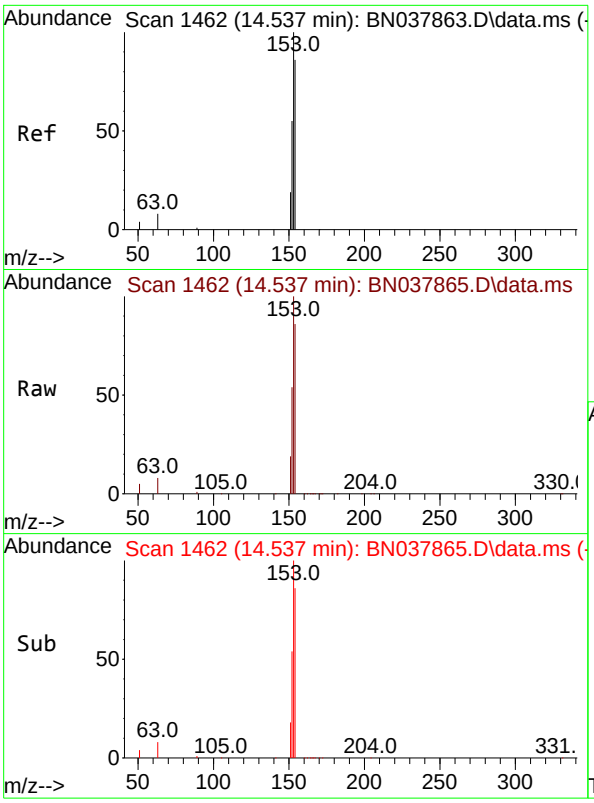


#16
Acenaphthylene
Concen: 1.680 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:152 Resp: 64093

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	12.9	10.5	15.7



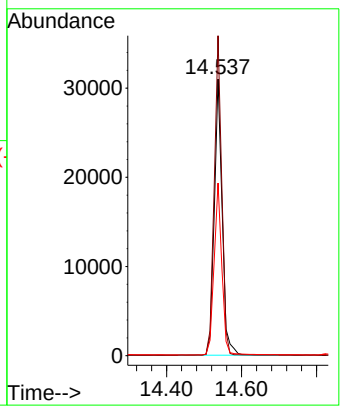


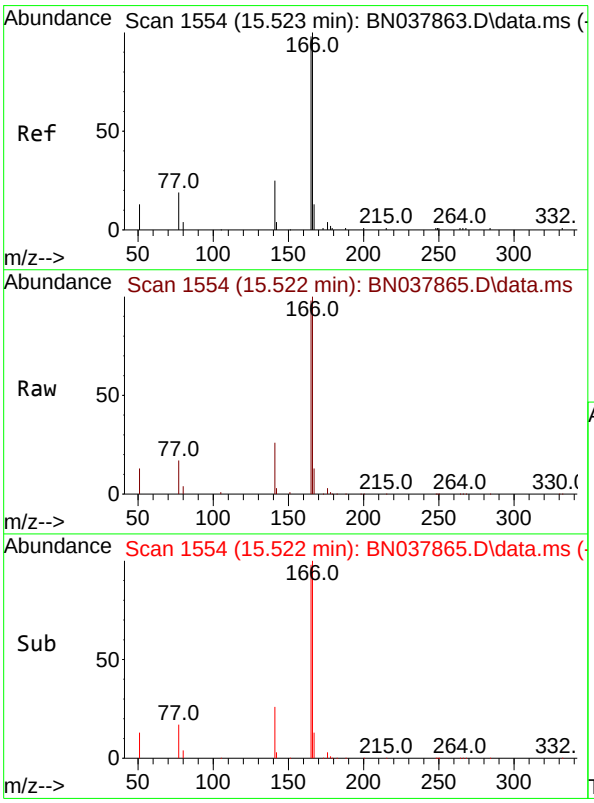
#17
Acenaphthene
Concen: 1.670 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 45411

Ion	Ratio	Lower	Upper
154	100		
153	110.4	90.5	135.7
152	61.0	51.8	77.8

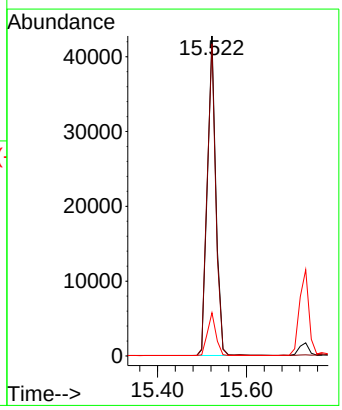


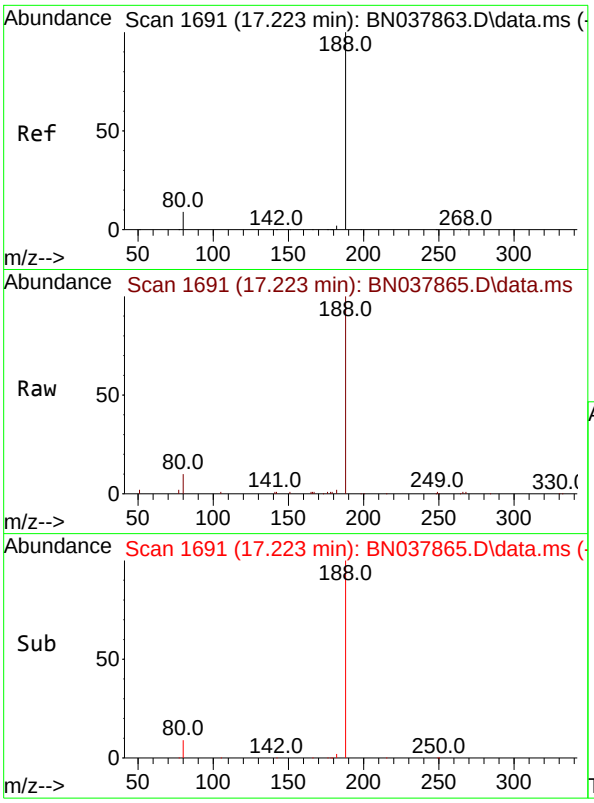


#18
Fluorene
Concen: 1.701 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:166 Resp: 55922

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.0	118.4
167	13.1	10.6	16.0



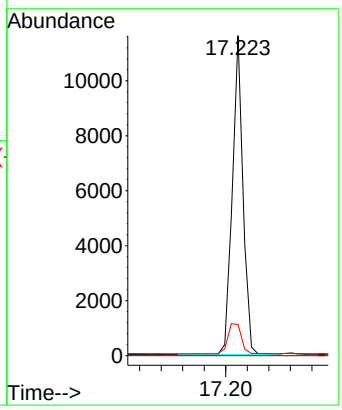


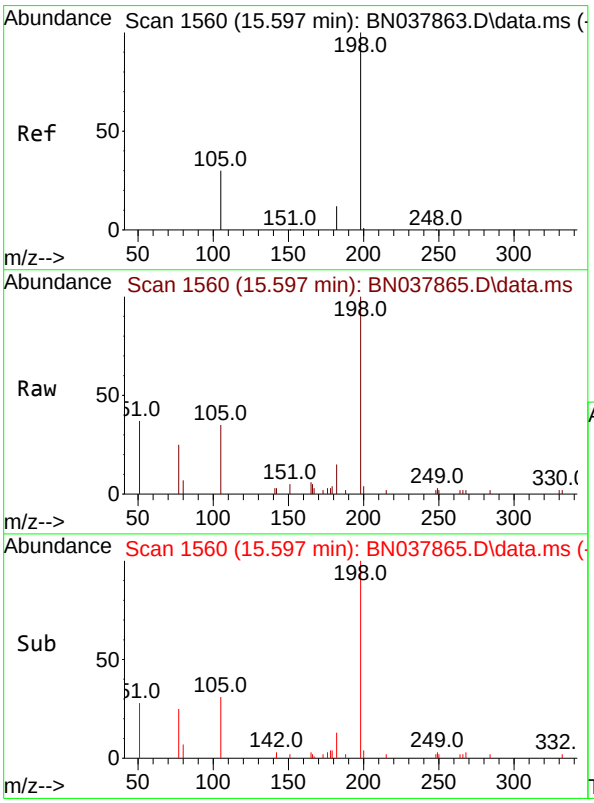
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 15875

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.8	7.6	11.4

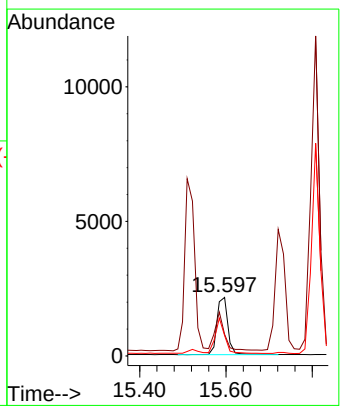


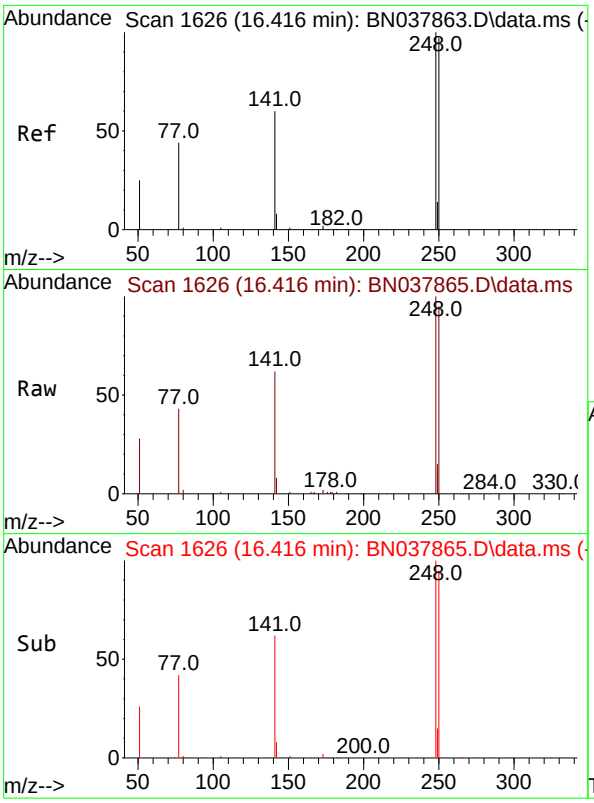


#20
4,6-Dinitro-2-methylphenol
Concen: 1.602 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:198 Resp: 3669

Ion	Ratio	Lower	Upper
198	100		
51	36.7	59.1	88.7#
105	34.9	41.3	61.9#



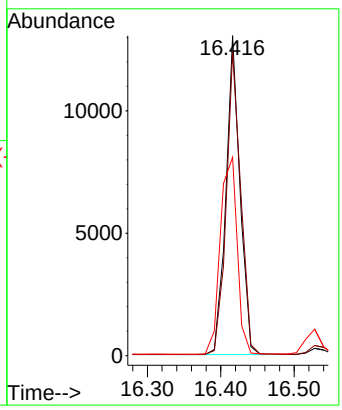


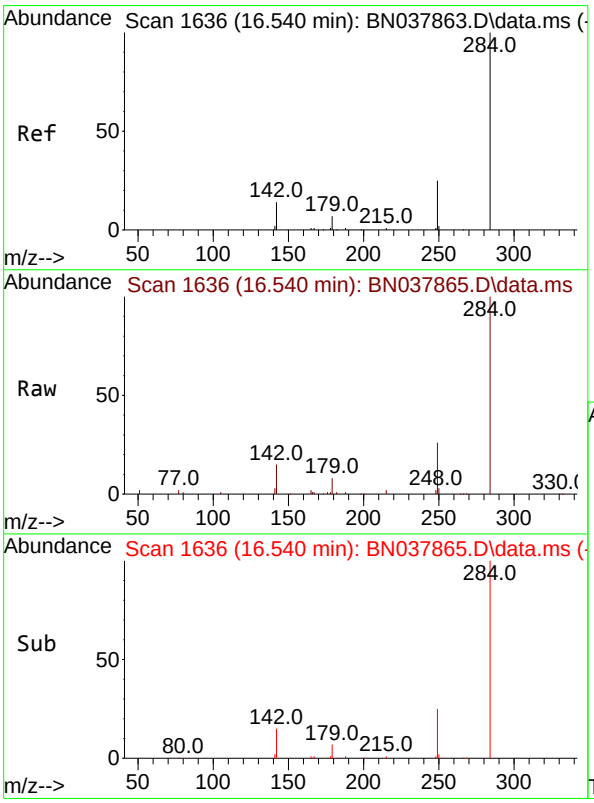
#21
4-Bromophenyl-phenylether
Concen: 1.670 ng
RT: 16.416 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 17278

Ion	Ratio	Lower	Upper
248	100		
250	95.0	77.6	116.4
141	62.0	48.8	73.2

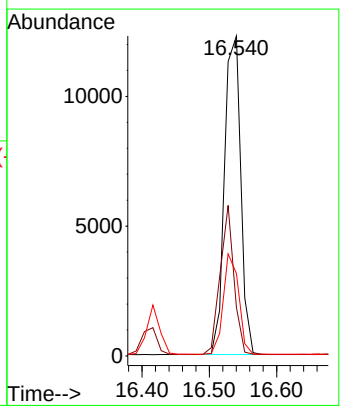


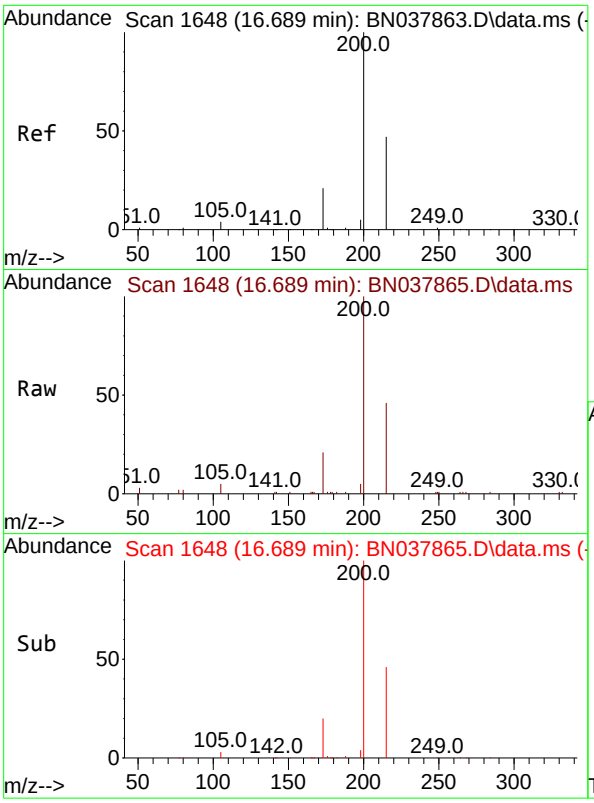


#22
Hexachlorobenzene
Concen: 1.638 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:284 Resp: 20548

Ion	Ratio	Lower	Upper
284	100		
142	39.6	30.9	46.3
249	29.9	23.9	35.9



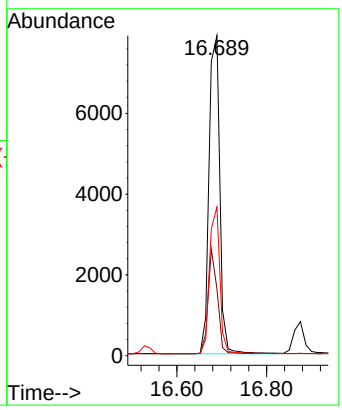


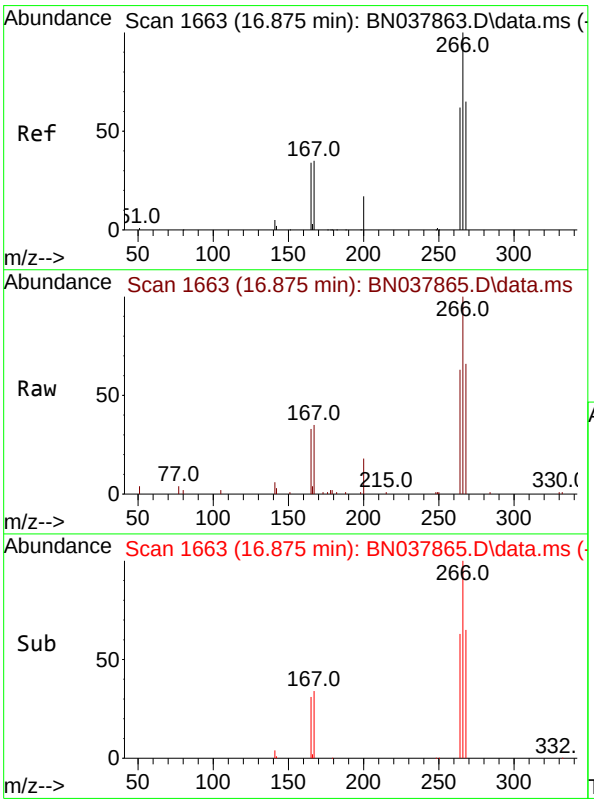
#23
Atrazine
Concen: 1.656 ng
RT: 16.689 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 13043

Ion	Ratio	Lower	Upper
200	100		
173	21.0	18.3	27.5
215	46.4	38.6	58.0

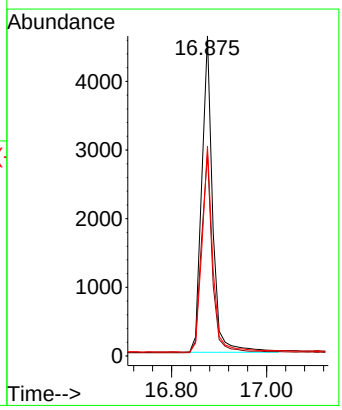


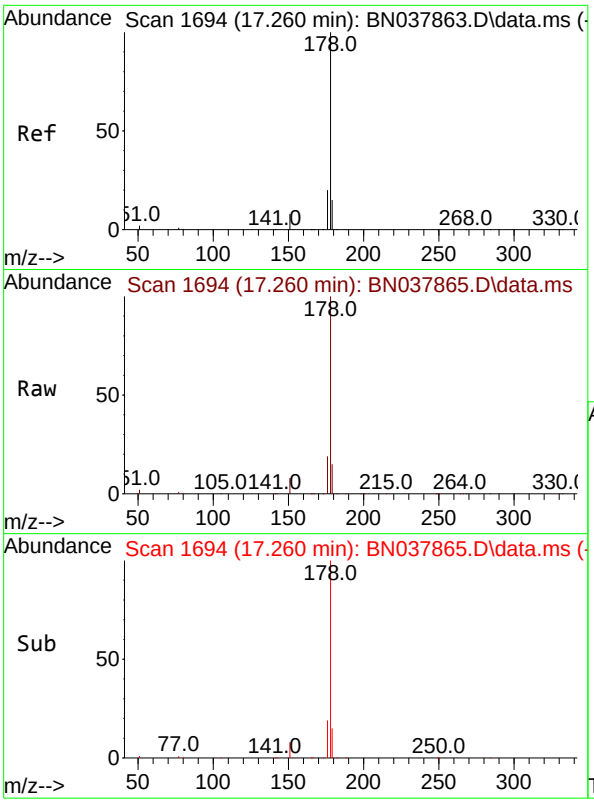


#24
Pentachlorophenol
Concen: 1.718 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:266 Resp: 7393

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.9	76.3
268	64.6	54.3	81.5



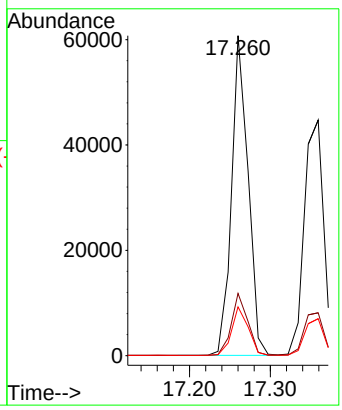


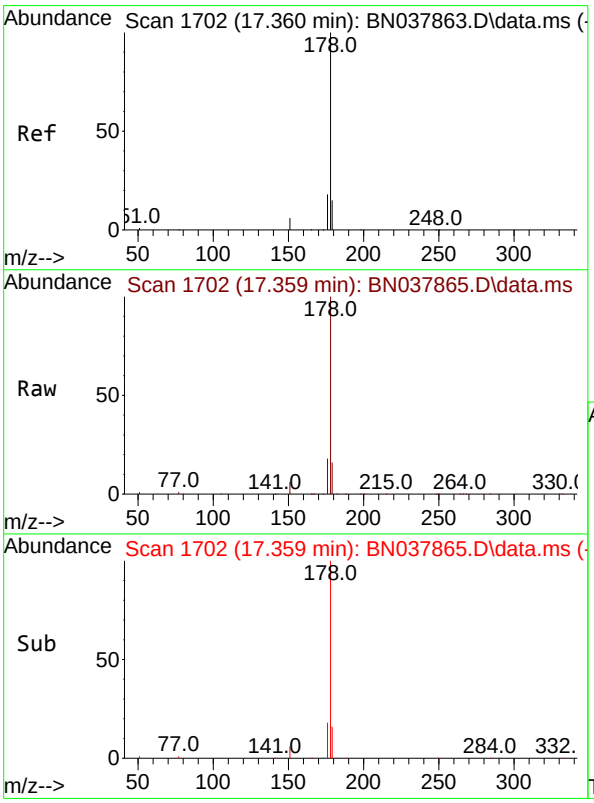
#25
Phenanthrene
Concen: 1.650 ng
RT: 17.260 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 86207

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.3	12.3	18.5

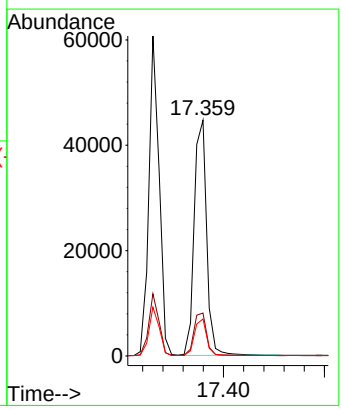


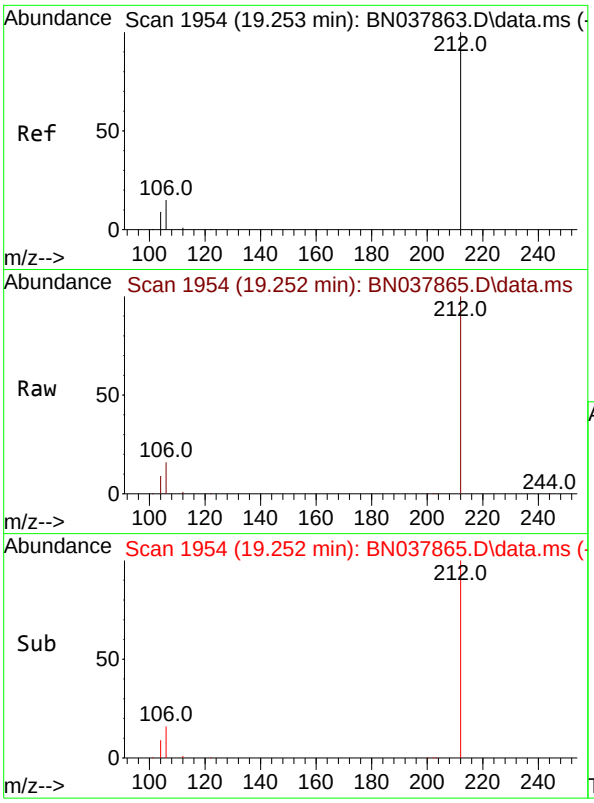


#26
Anthracene
Concen: 1.693 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:178 Resp: 76744

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.3	12.3	18.5



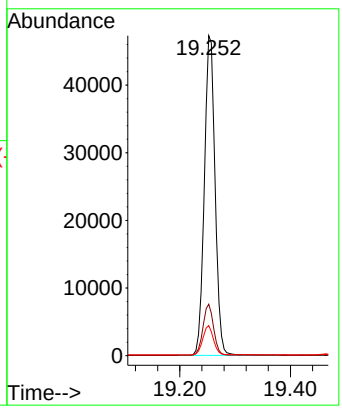


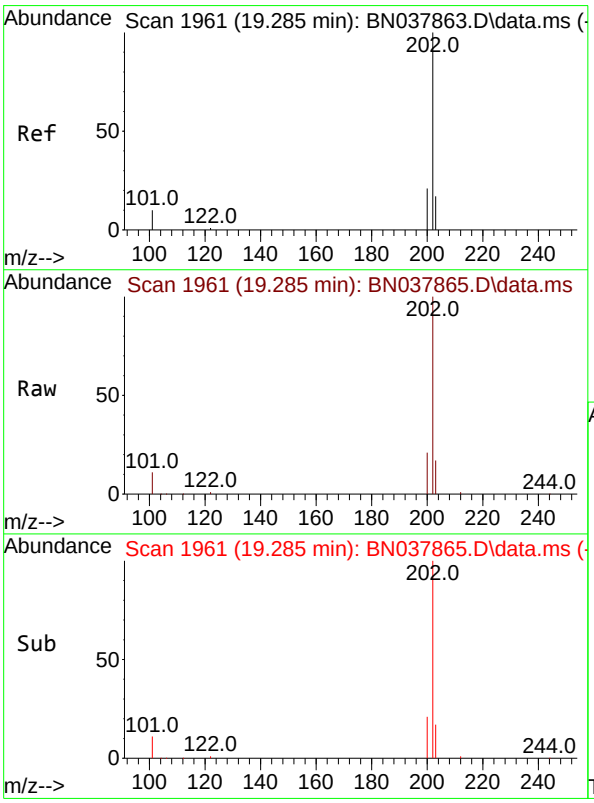
#27
Fluoranthene-d10
Concen: 1.597 ng
RT: 19.252 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 63771

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.6	19.0
104	9.1	7.4	11.0

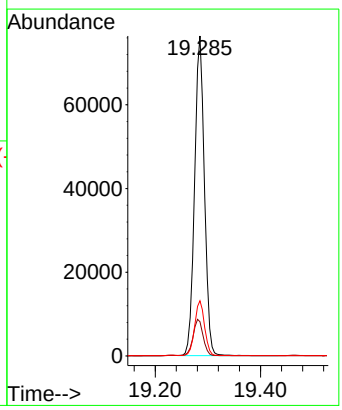


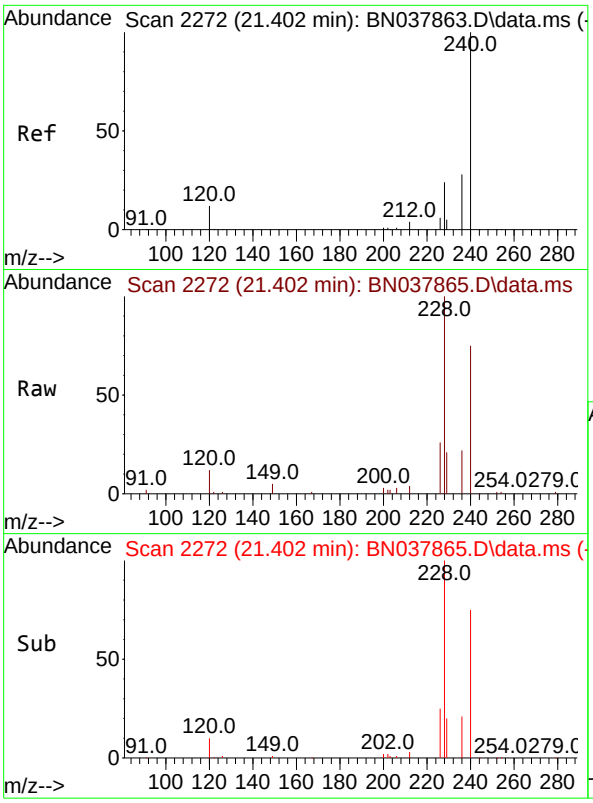


#28
Fluoranthene
Concen: 1.717 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:202 Resp: 98772

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.2	13.6	20.4



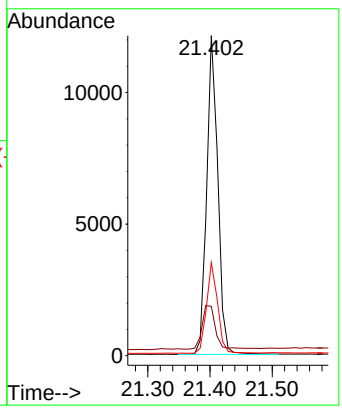


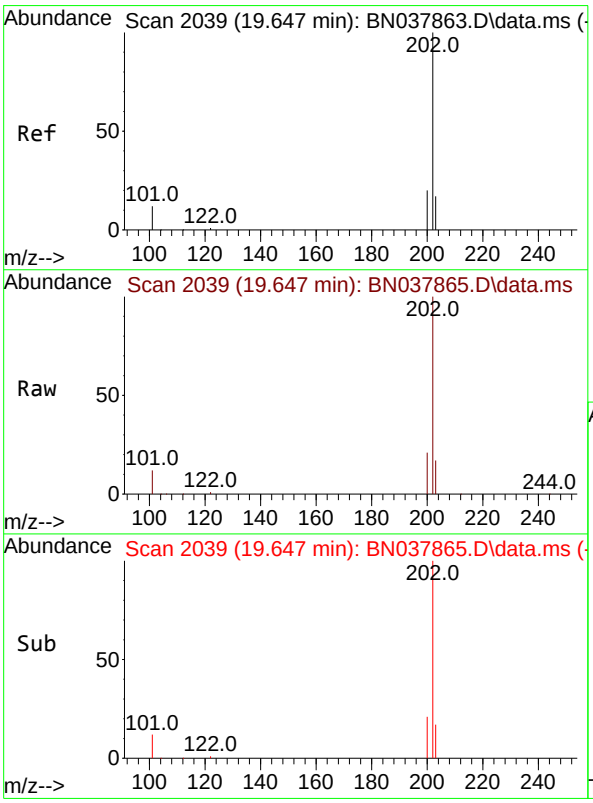
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 14963

Ion	Ratio	Lower	Upper
240	100		
120	15.4	11.4	17.2
236	29.1	23.0	34.6

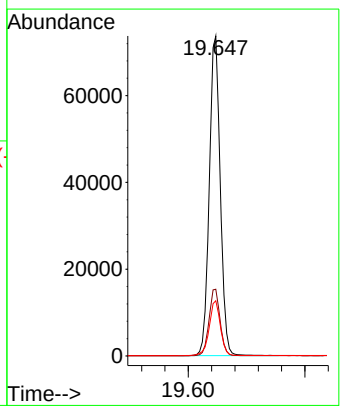


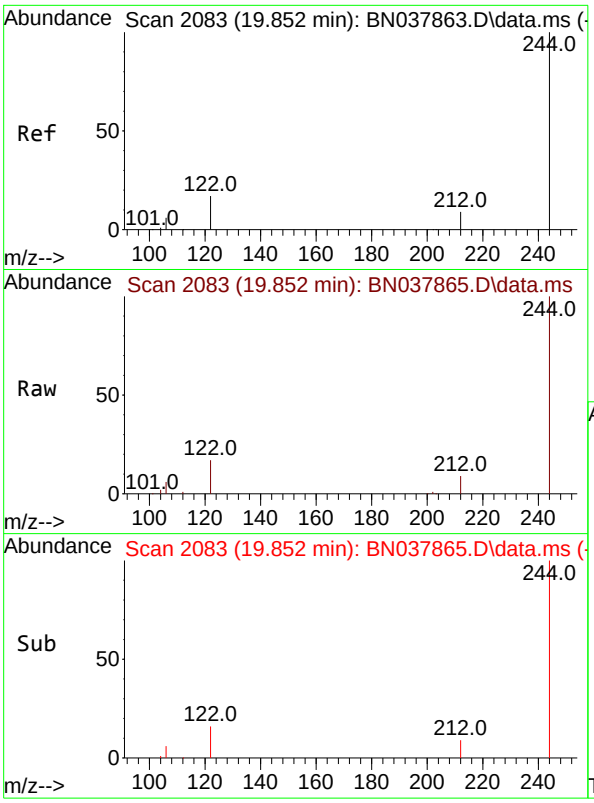


#30
Pyrene
Concen: 1.628 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:202 Resp: 96189

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.6	14.2	21.4



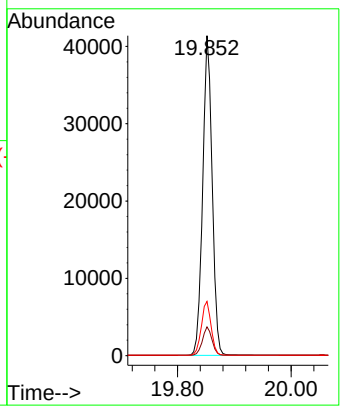


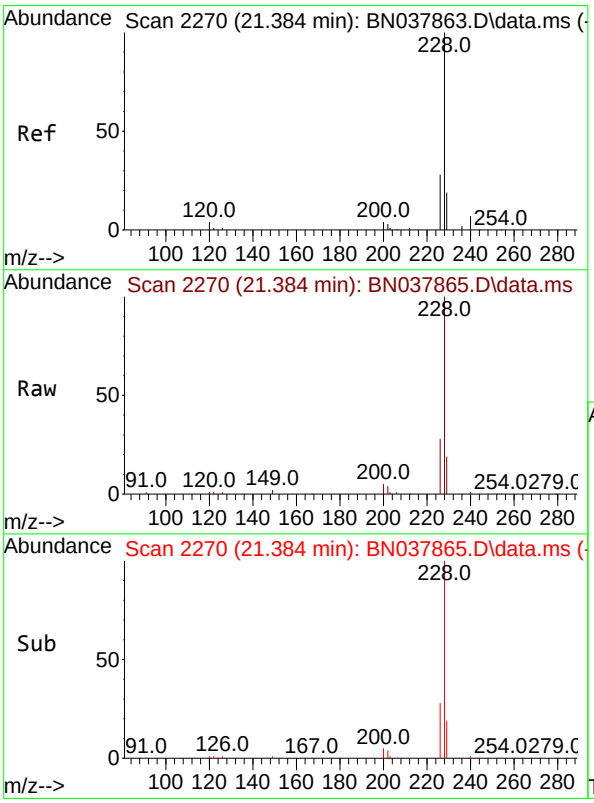
#31
Terphenyl-d14
Concen: 1.603 ng
RT: 19.852 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 47765

Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	16.9	13.9	20.9

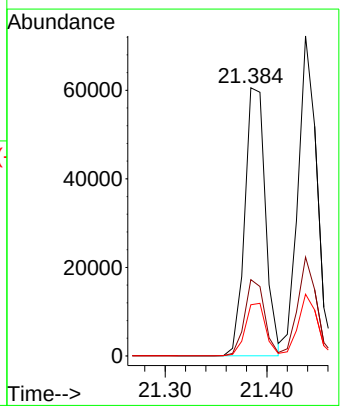


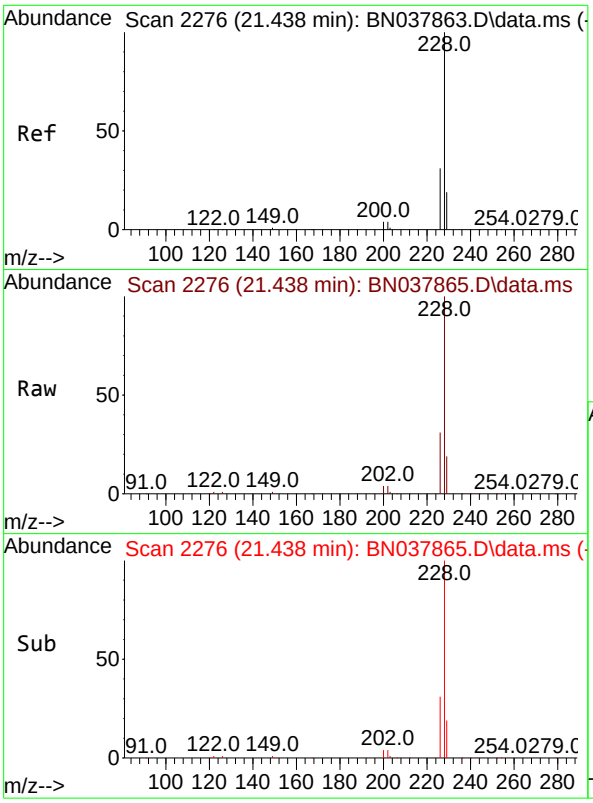


#32
Benzo(a)anthracene
Concen: 1.628 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:228 Resp: 85145

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	19.1	15.6	23.4



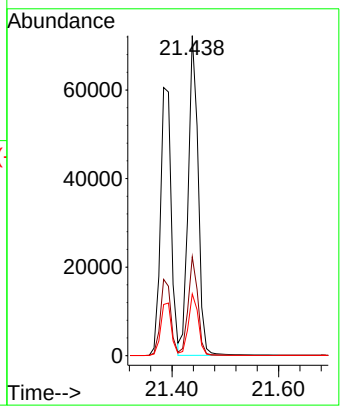


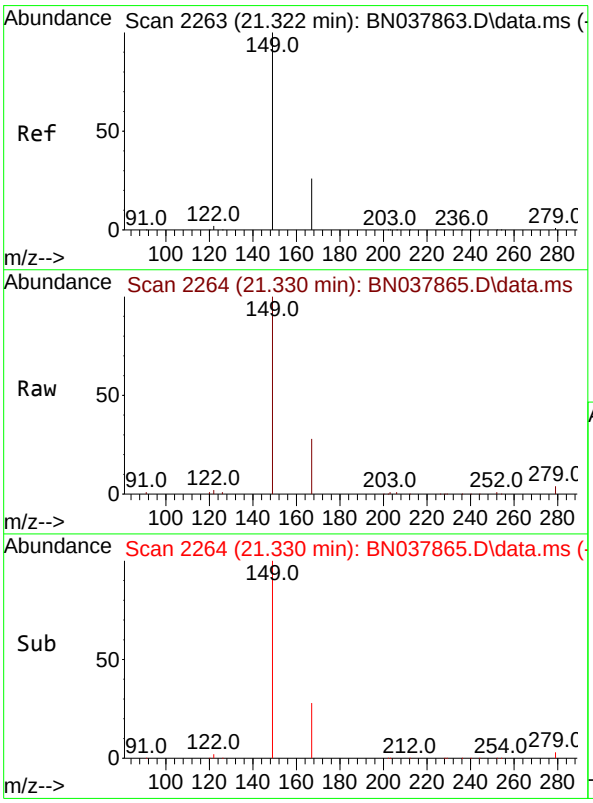
#33
Chrysene
Concen: 1.650 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 93309

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	19.3	15.6	23.4

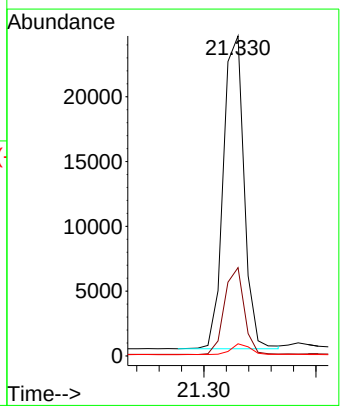


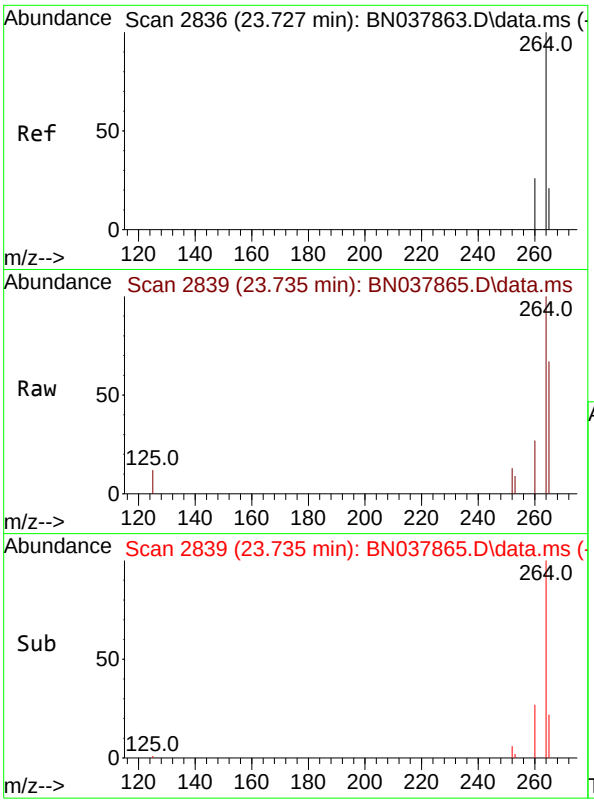


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.500 ng
RT: 21.330 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:149 Resp: 31032

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.4	30.6
279	3.4	2.4	3.6



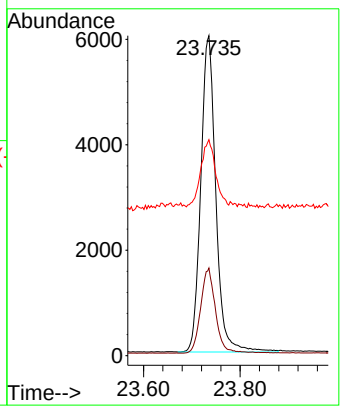


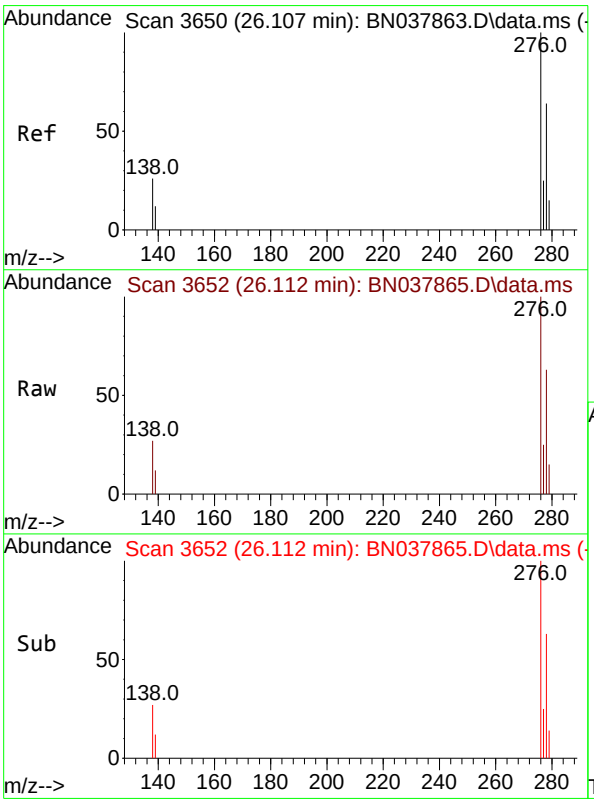
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 12917

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.5	32.3
265	67.5	53.8	80.6

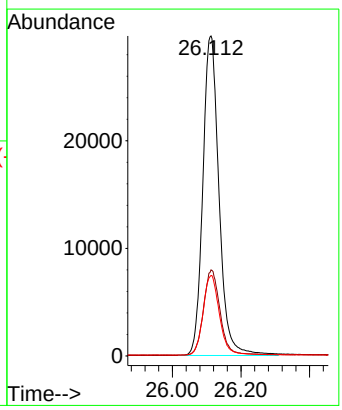


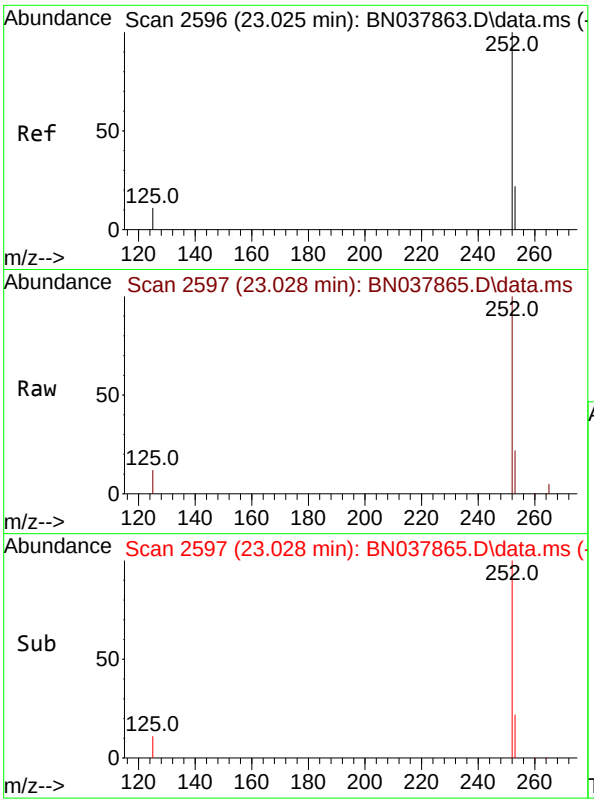


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.652 ng
RT: 26.112 min Scan# 3652
Delta R.T. 0.006 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:276 Resp: 97476

Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.4	32.0
277	25.1	20.3	30.5



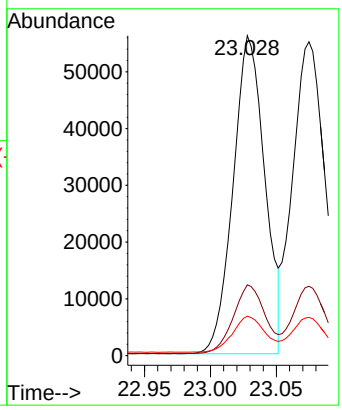


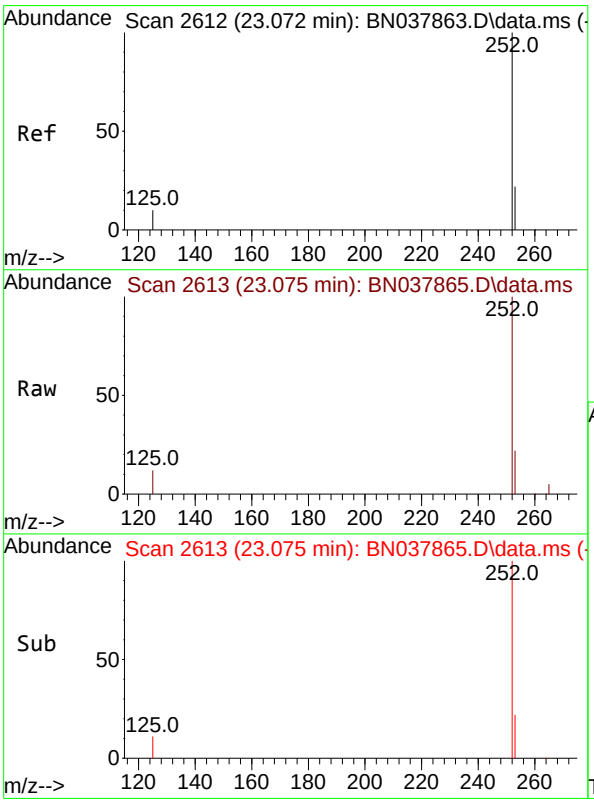
#37
Benzo(b)fluoranthene
Concen: 1.679 ng
RT: 23.028 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 93525

Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.4	29.0
125	12.3	13.0	19.4#

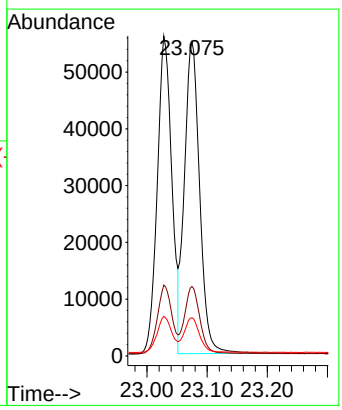


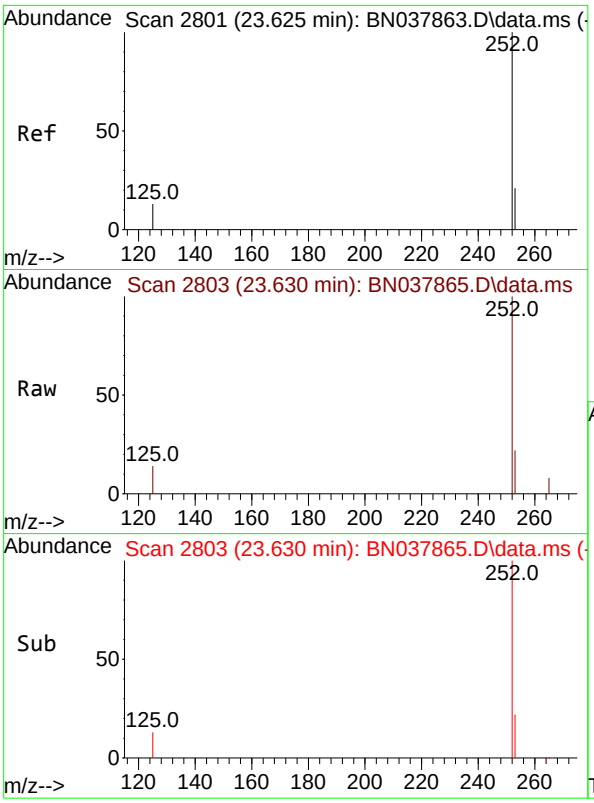


#38
Benzo(k)fluoranthene
Concen: 1.728 ng
RT: 23.075 min Scan# 2613
Delta R.T. 0.003 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:252 Resp: 96868

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.5	29.3
125	12.2	13.0	19.4#



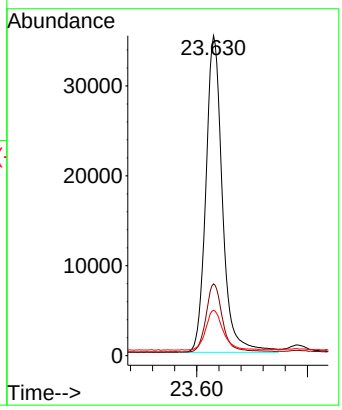


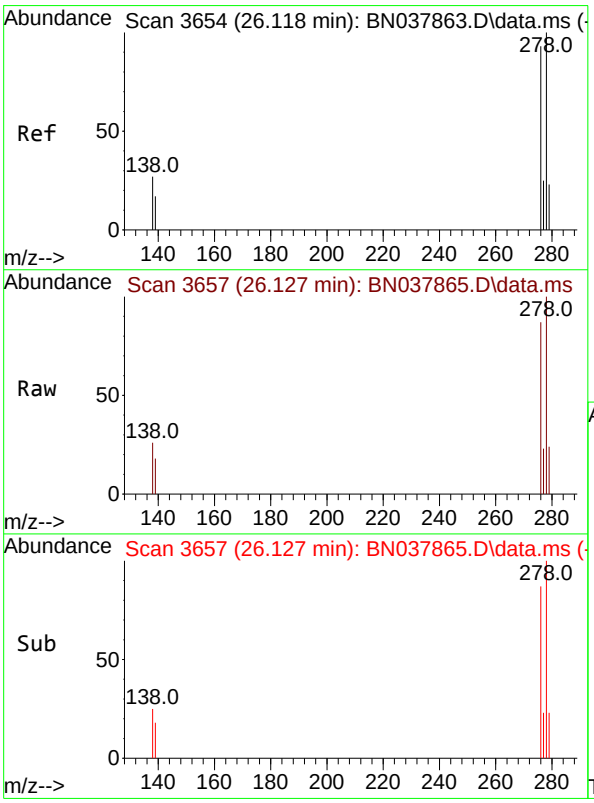
#39
Benzo(a)pyrene
Concen: 1.657 ng
RT: 23.630 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 73009

Ion	Ratio	Lower	Upper
252	100		
253	22.5	20.6	30.8
125	14.2	16.7	25.1#

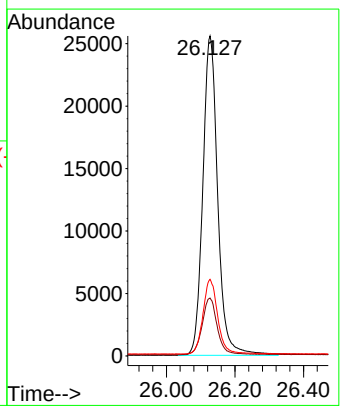


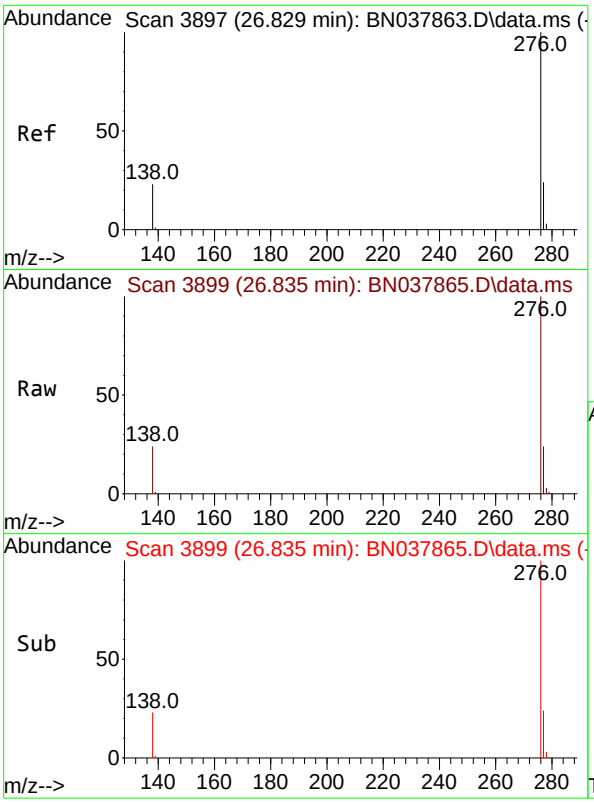


#40
Dibenzo(a,h)anthracene
Concen: 1.676 ng
RT: 26.127 min Scan# 3657
Delta R.T. 0.009 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:278 Resp: 77237

Ion	Ratio	Lower	Upper
278	100		
139	18.1	15.4	23.2
279	23.9	20.8	31.2





#41
Benzo(g,h,i)perylene
Concen: 1.623 ng
RT: 26.835 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 78576

Ion	Ratio	Lower	Upper
276	100		
277	24.1	20.2	30.4
138	23.5	19.8	29.8