Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100322\
Data File : BN021978.D
Acq On : 03 Oct 2022 15:00
Operator : CG/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Oct 04 01:12:08 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN100322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 04 01:08:47 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.985	152	4063	0.400	ng		0.00
7) Naphthalene-d8	10.816	136	11441	0.400	ng		0.00
13) Acenaphthene-d10	14.653	164	6097	0.400	ng		0.00
19) Phenanthrene-d10	17.400	188	11942	0.400	ng		#-0.01
29) Chrysene-d12	21.600	240	10629	0.400	ng		# 0.00
35) Perylene-d12	24.084	264	8206	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.508	112	29175	2.747	ng		0.00
5) Phenol-d6	7.140	99	38912	2.861	ng		0.00
8) Nitrobenzene-d5	9.161	82	29975	2.996	ng		0.00
11) 2-Methylnaphthalene-d10	12.406	152	65933	3.100	ng		0.00
14) 2,4,6-Tribromophenol	16.146	330	8236	3.046	ng		0.00
15) 2-Fluorobiphenyl	13.274	172	81832	3.100	ng		-0.01
27) Fluoranthene-d10	19.441	212	102045	3.118	ng		0.00
31) Terphenyl-d14	20.032	244	60935	2.844	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.320	88	15500	2.864	ng		99
3) n-Nitrosodimethylamine	3.659	42	17696	2.885	ng	#	98
6) bis(2-Chloroethyl)ether	7.408	93	39503	2.861	ng		98
9) Naphthalene	10.859	128	106687	3.074	ng		99
10) Hexachlorobutadiene	11.147	225	18181	3.055	ng	#	99
12) 2-Methylnaphthalene	12.111	142	20413	3.033	ng	#	81
16) Acenaphthylene	14.375	152	98572	3.405	ng		100
17) Acenaphthene	14.717	154	63815	3.110	ng		98
18) Fluorene	15.701	166	78384	3.214	ng		100
20) 4,6-Dinitro-2-methylph...	15.774	198	7213	3.570	ng	#	61
21) 4-Bromophenyl-phenylether	16.593	248	23268	3.085	ng	#	90
22) Hexachlorobenzene	16.704	284	27988	3.179	ng		99
23) Atrazine	16.866	200	18554	3.053	ng	#	94
24) Pentachlorophenol	17.052	266	10783	3.098	ng		98
25) Phenanthrene	17.449	178	129001	3.106	ng		100
26) Anthracene	17.536	178	111641	3.291	ng		100
28) Fluoranthene	19.470	202	142931	3.189	ng		100
30) Pyrene	19.837	202	142855	2.990	ng		100
32) Benzo(a)anthracene	21.591	228	130363	3.174	ng		98
33) Chrysene	21.645	228	133442	3.006	ng		99
34) Bis(2-ethylhexyl)phtha...	21.501	149	58968	2.867	ng		98
36) Indeno(1,2,3-cd)pyrene	26.680	276	137794	3.372	ng		99
37) Benzo(b)fluoranthene	23.318	252	122652	3.101	ng	#	90
38) Benzo(k)fluoranthene	23.371	252	125001	3.235	ng	#	91
39) Benzo(a)pyrene	23.973	252	97381	3.275	ng	#	84
40) Dibenzo(a,h)anthracene	26.704	278	110327	3.377	ng		94
41) Benzo(g,h,i)perylene	27.490	276	114942	3.369	ng		97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100322\
Data File : BN021978.D
Acq On : 03 Oct 2022 15:00
Operator : CG/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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Quant Time: Oct 04 01:12:08 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN100322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 04 01:08:47 2022
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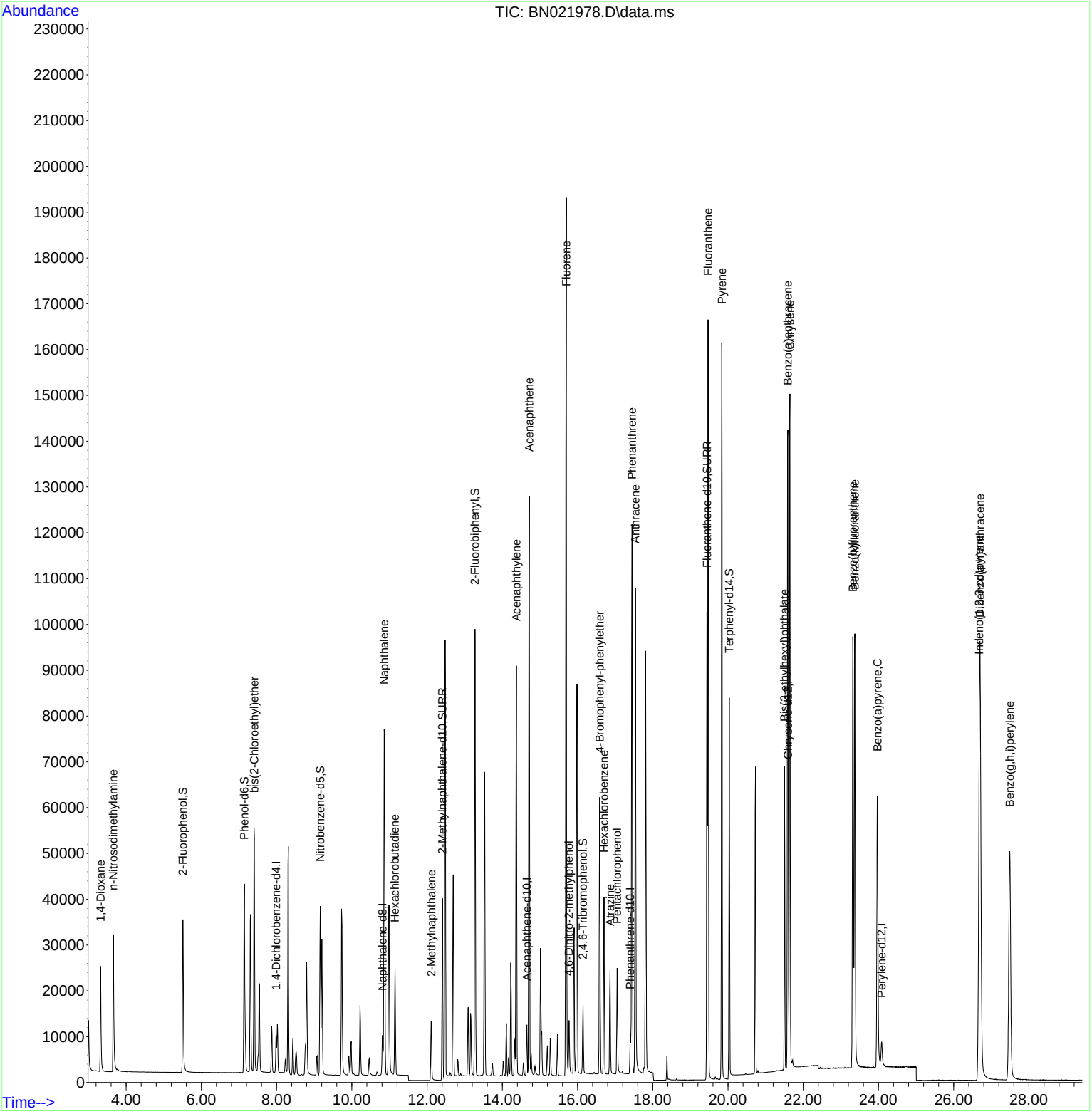
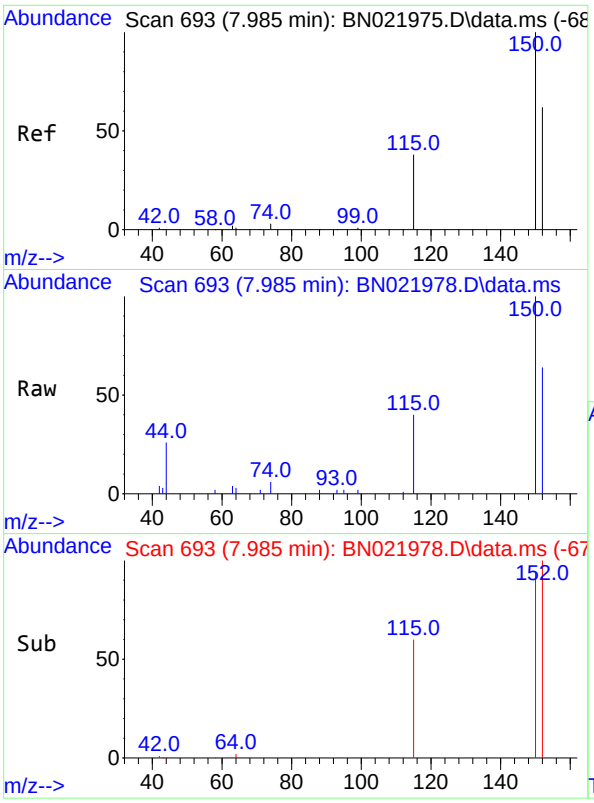


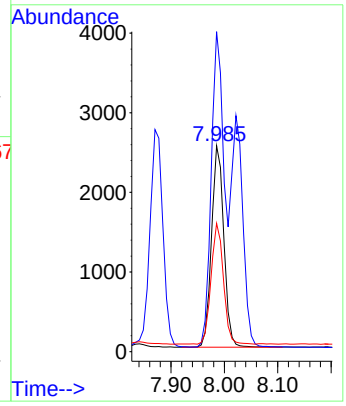


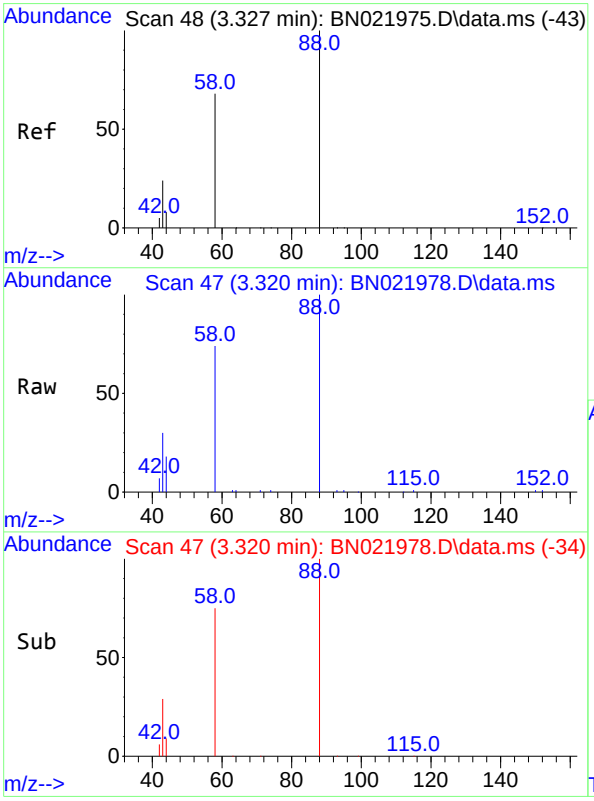
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.985 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 4063

Ion	Ratio	Lower	Upper
152	100		
150	155.4	127.2	190.8
115	62.4	51.4	77.0

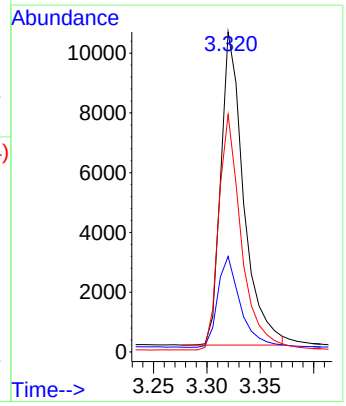


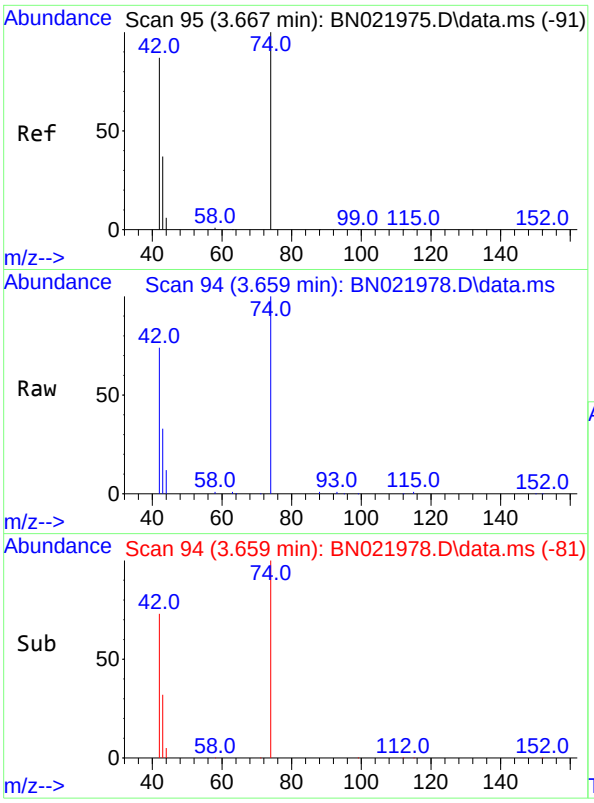


#2
1,4-Dioxane
Concen: 2.864 ng
RT: 3.320 min Scan# 47
Delta R.T. -0.007 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion: 88 Resp: 15500

Ion	Ratio	Lower	Upper
88	100		
43	29.0	22.6	34.0
58	74.4	58.6	88.0



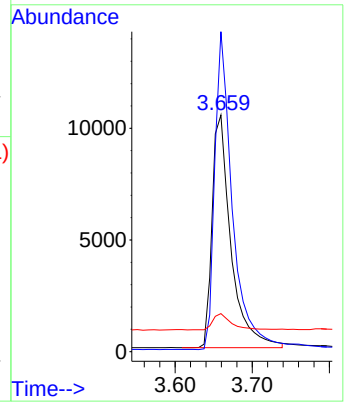


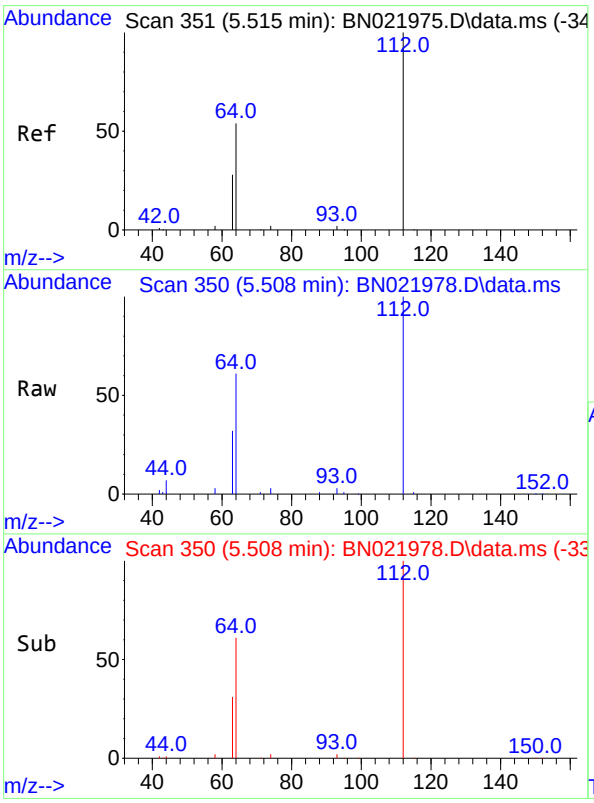
#3
n-Nitrosodimethylamine
Concen: 2.885 ng
RT: 3.659 min Scan# 94
Delta R.T. -0.007 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 17696

Ion	Ratio	Lower	Upper
42	100		
74	128.1	101.6	152.4
44	7.0	10.4	15.6#

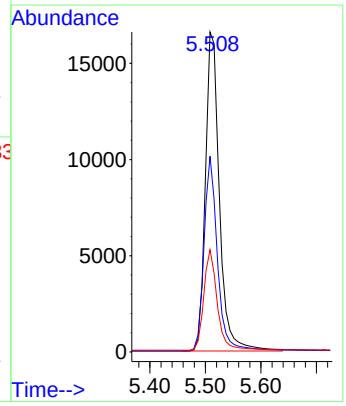


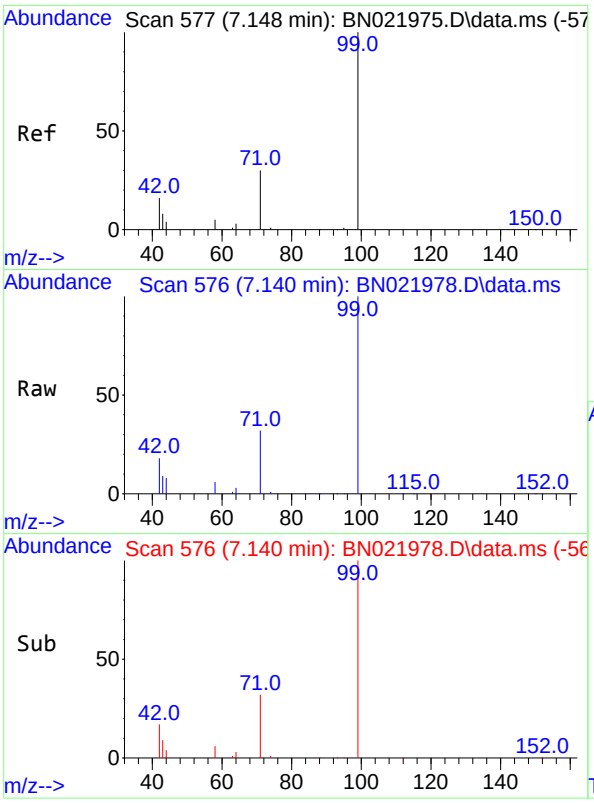


#4
2-Fluorophenol
Concen: 2.747 ng
RT: 5.508 min Scan# 350
Delta R.T. -0.007 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:112 Resp: 29175

Ion	Ratio	Lower	Upper
112	100		
64	58.3	46.9	70.3
63	30.4	24.6	37.0



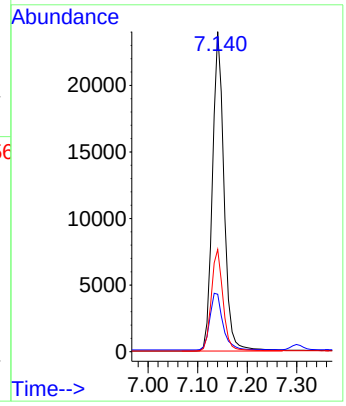


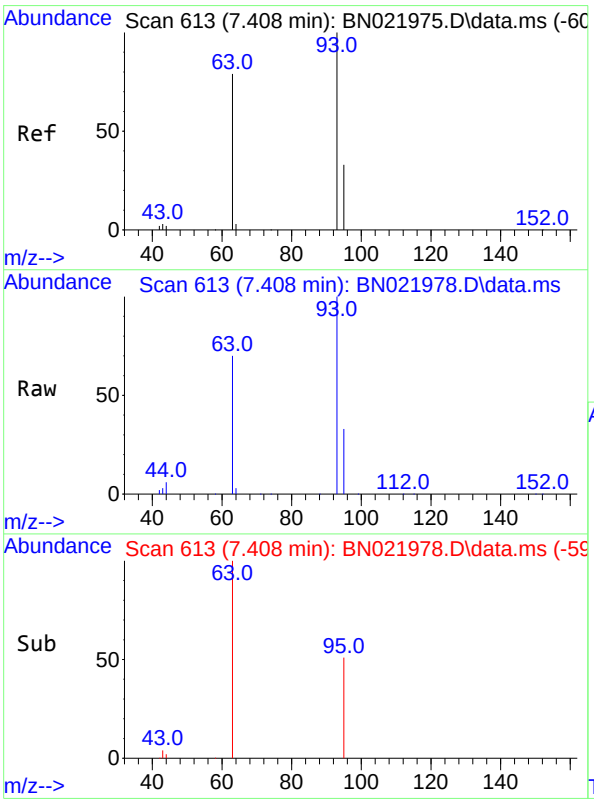
#5
Phenol-d6
Concen: 2.861 ng
RT: 7.140 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 38912

Ion	Ratio	Lower	Upper
99	100		
42	20.0	15.9	23.9
71	32.2	25.6	38.4

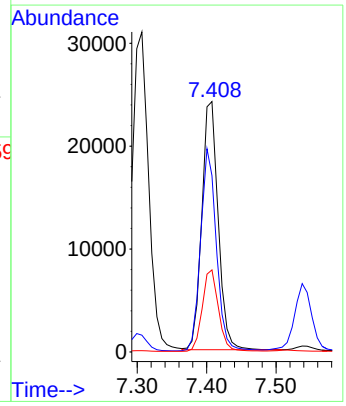


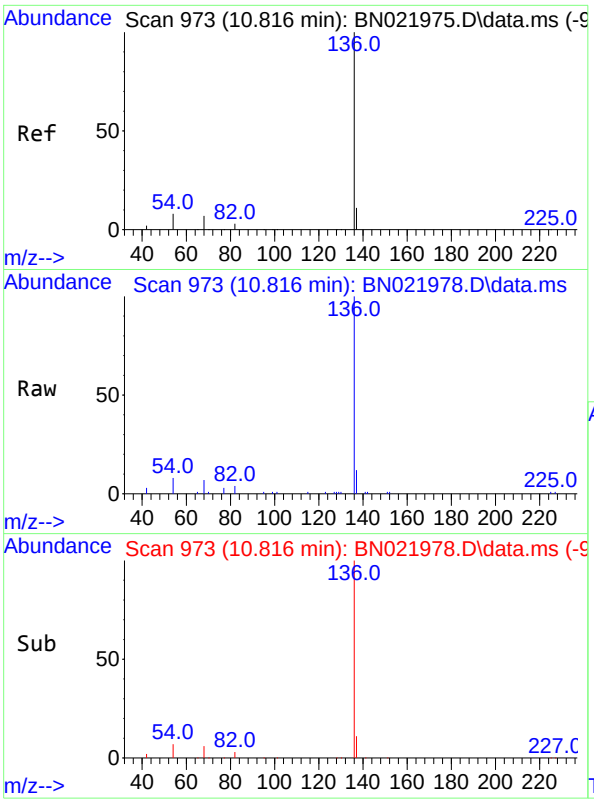


#6
bis(2-Chloroethyl)ether
Concen: 2.861 ng
RT: 7.408 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion: 93 Resp: 39503

Ion	Ratio	Lower	Upper
93	100		
63	78.4	64.8	97.2
95	32.6	26.6	40.0



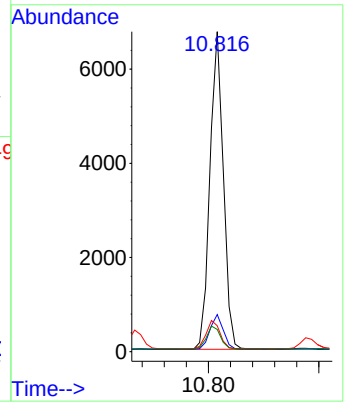


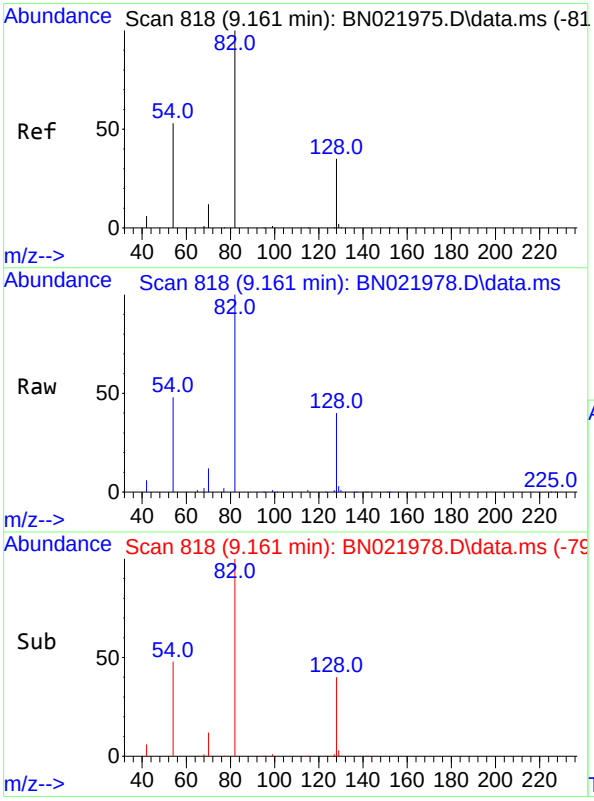
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 11441

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.2	13.8
54	8.1	7.1	10.7
68	7.0	6.2	9.2

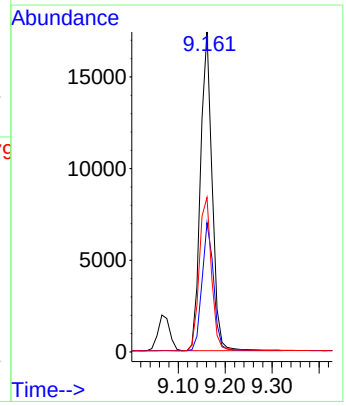


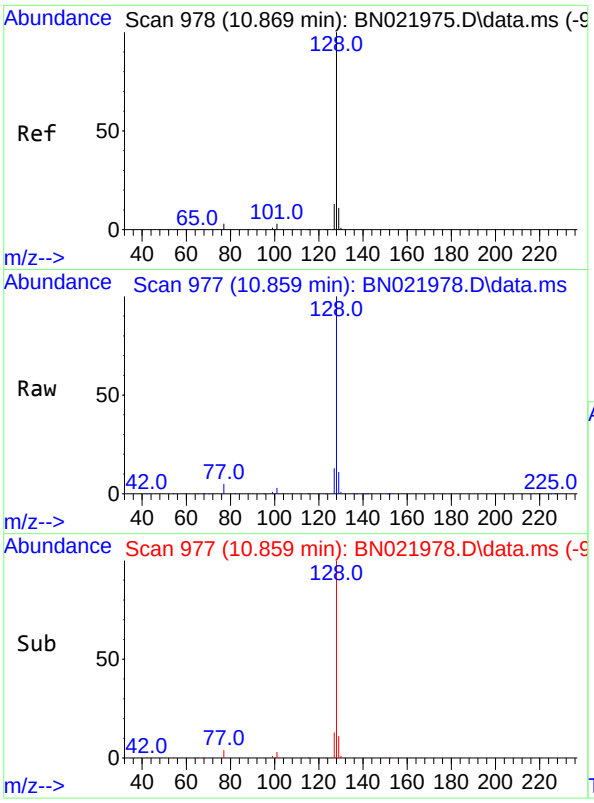


#8
Nitrobenzene-d5
Concen: 2.996 ng
RT: 9.161 min Scan# 818
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion: 82 Resp: 29975

Ion	Ratio	Lower	Upper
82	100		
128	40.4	29.9	44.9
54	48.3	43.5	65.3



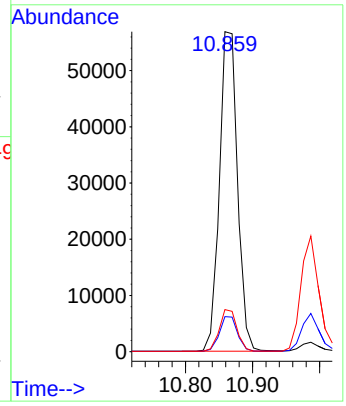


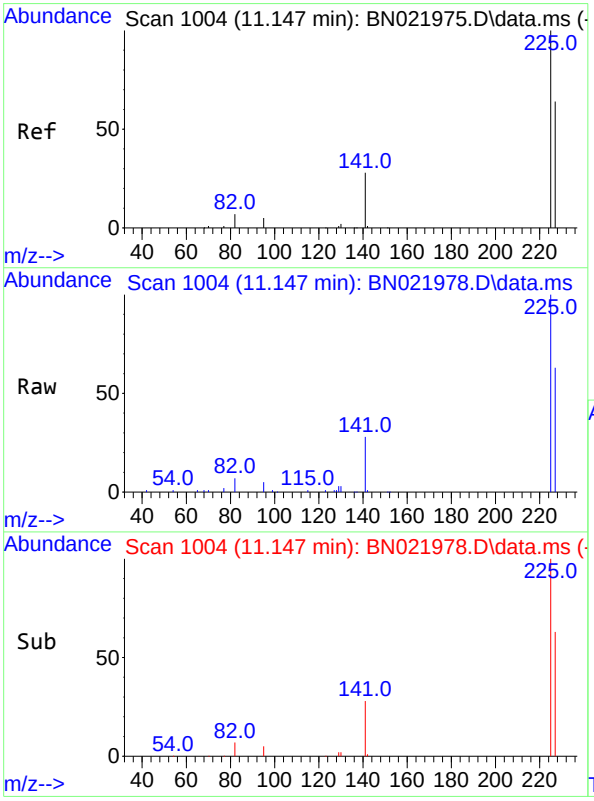
#9
Naphthalene
Concen: 3.074 ng
RT: 10.859 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 106687

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.3	13.9
127	13.1	10.6	16.0

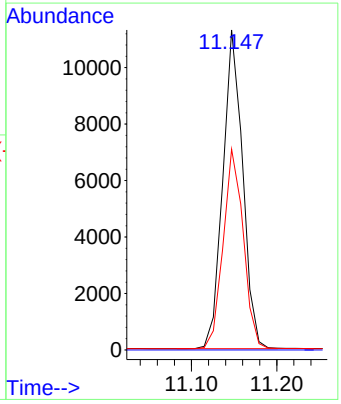


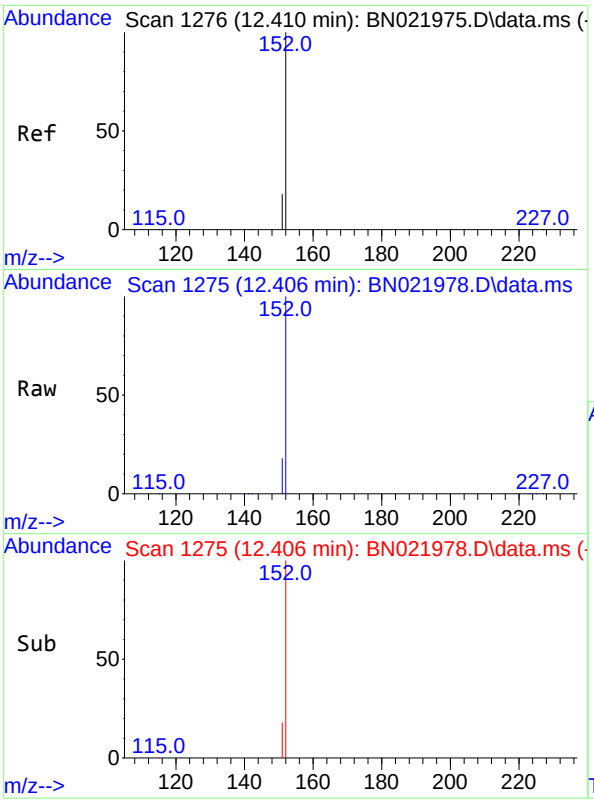


#10
Hexachlorobutadiene
Concen: 3.055 ng
RT: 11.147 min Scan# 1004
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:225 Resp: 18181

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.3	76.9



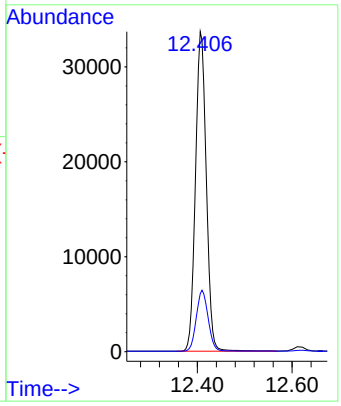


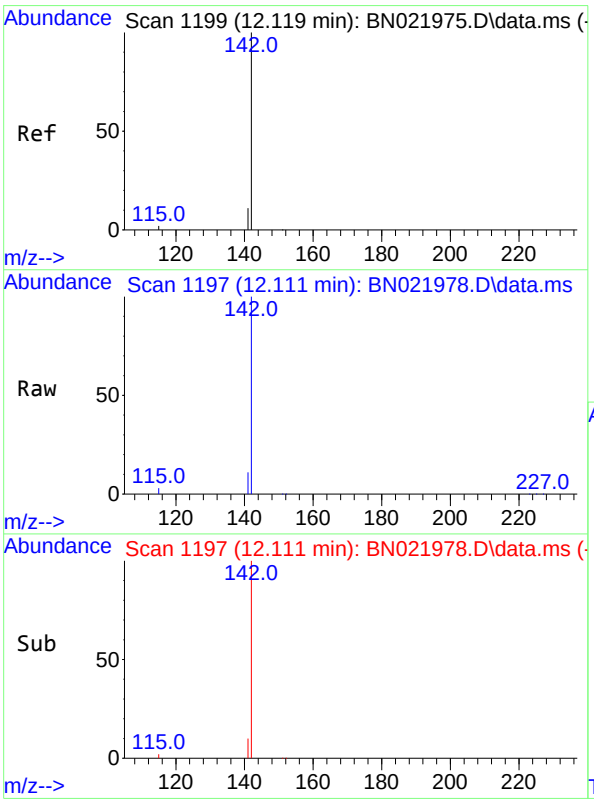
#11
2-Methylnaphthalene-d10
Concen: 3.100 ng
RT: 12.406 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 65933

Ion	Ratio	Lower	Upper
152	100		
151	20.9	13.8	20.6#

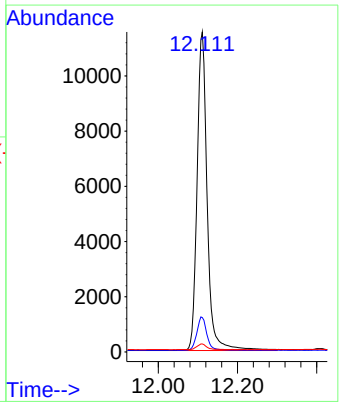


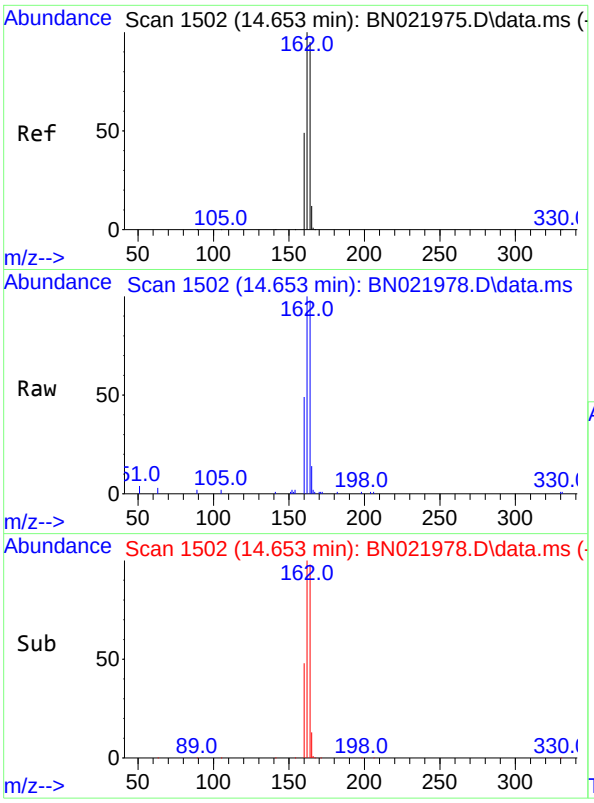


#12
2-Methylnaphthalene
Concen: 3.033 ng
RT: 12.111 min Scan# 1197
Delta R.T. -0.008 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:142 Resp: 20413

Ion	Ratio	Lower	Upper
142	100		
141	10.7	13.6	20.4#
115	2.5	9.7	14.5#



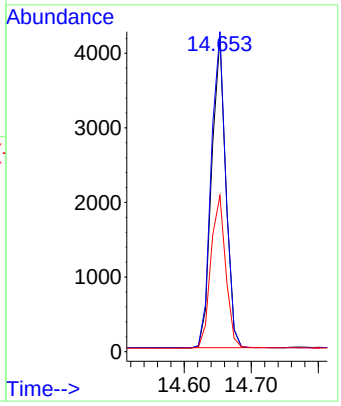


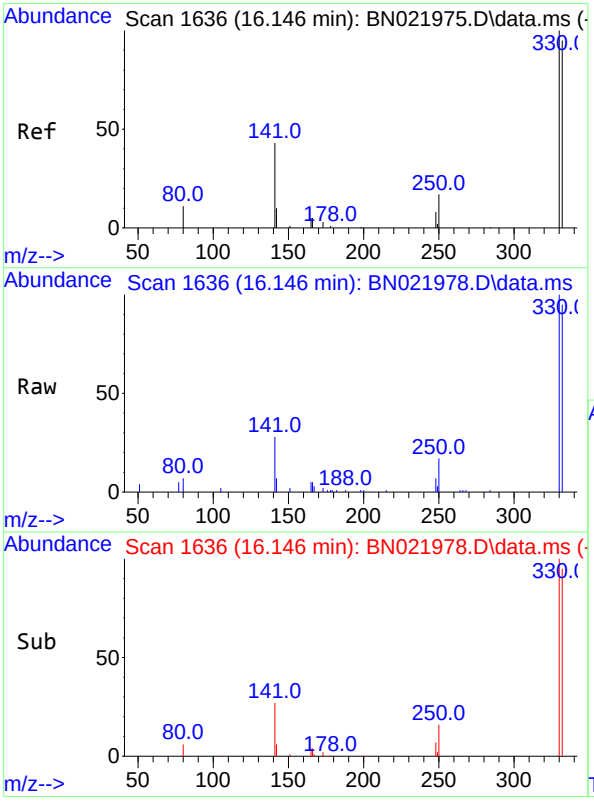
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 6097

Ion	Ratio	Lower	Upper
164	100		
162	101.9	84.3	126.5
160	49.7	41.7	62.5

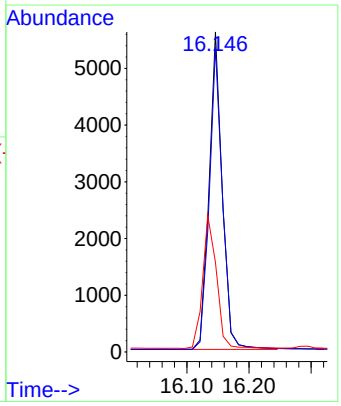


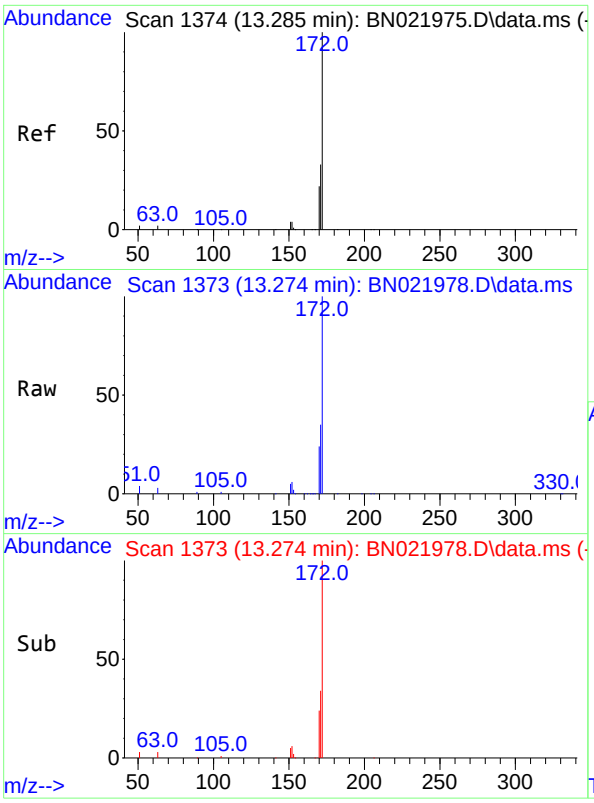


#14
2,4,6-Tribromophenol
Concen: 3.046 ng
RT: 16.146 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:330 Resp: 8236

Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.0	115.4
141	43.9	35.3	52.9



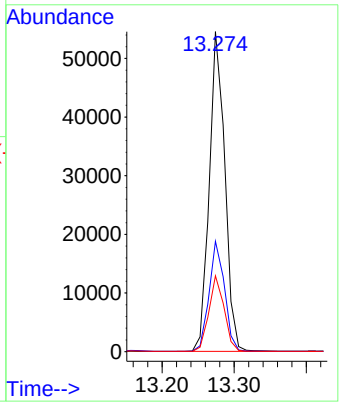


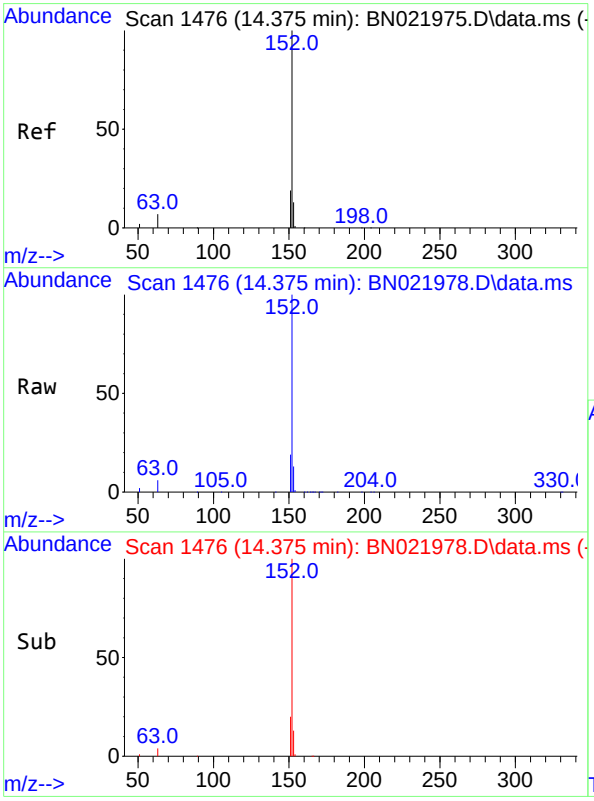
#15
2-Fluorobiphenyl
Concen: 3.100 ng
RT: 13.274 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 81832

Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.2	40.8
170	23.7	18.3	27.5

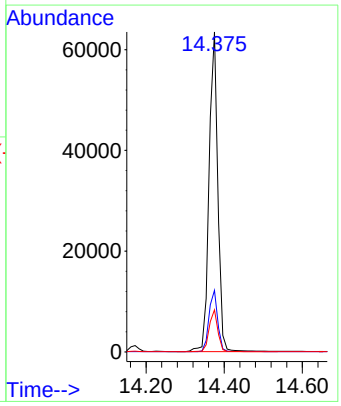


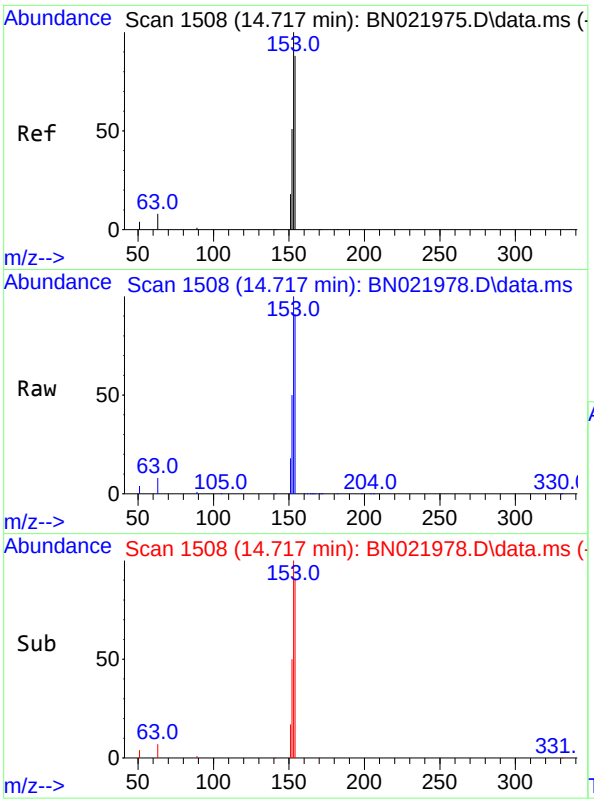


#16
Acenaphthylene
Concen: 3.405 ng
RT: 14.375 min Scan# 1476
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:152 Resp: 98572

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.5	23.3
153	13.0	10.4	15.6



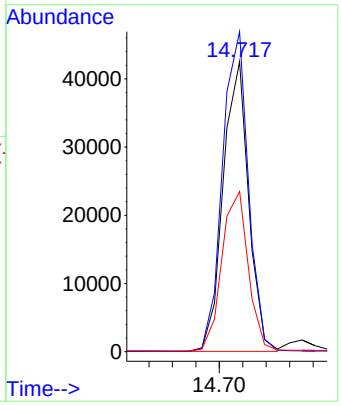


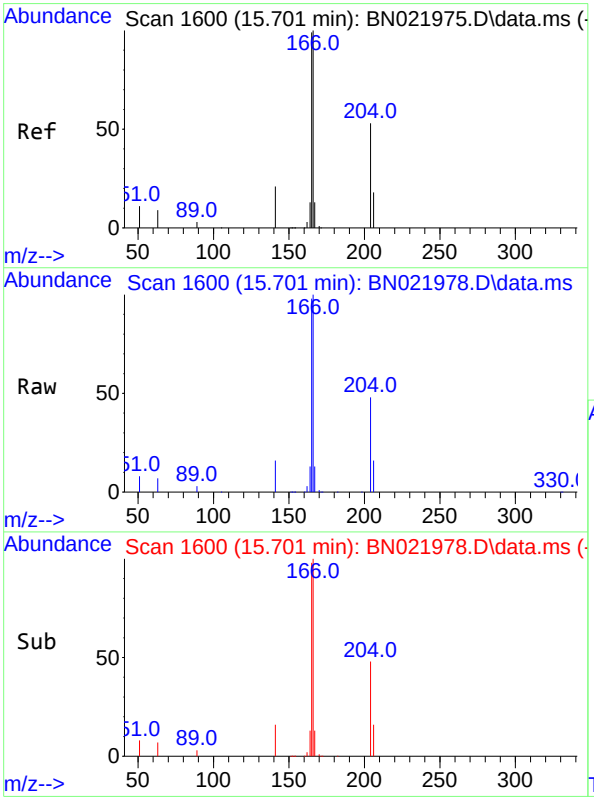
#17
Acenaphthene
Concen: 3.110 ng
RT: 14.717 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 63815

Ion	Ratio	Lower	Upper
154	100		
153	112.6	92.1	138.1
152	57.7	47.8	71.6

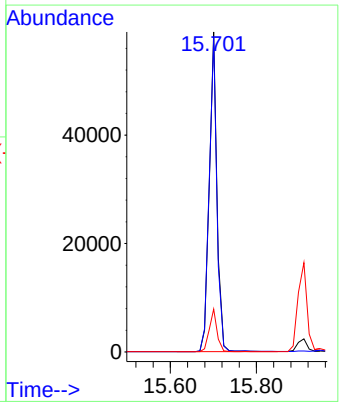


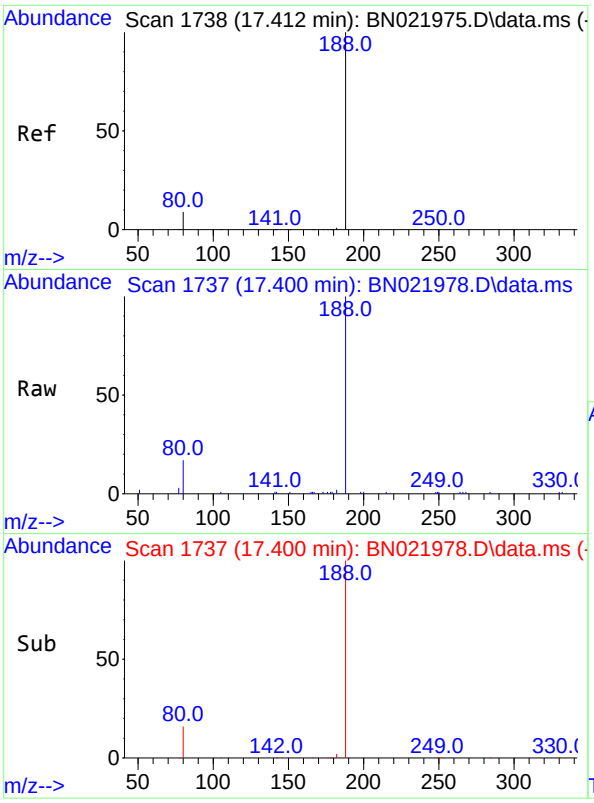


#18
Fluorene
Concen: 3.214 ng
RT: 15.701 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:166 Resp: 78384

Ion	Ratio	Lower	Upper
166	100		
165	100.2	80.0	120.0
167	12.9	10.9	16.3



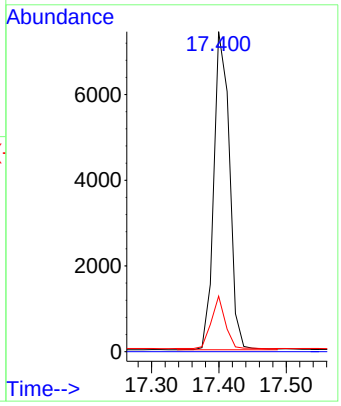


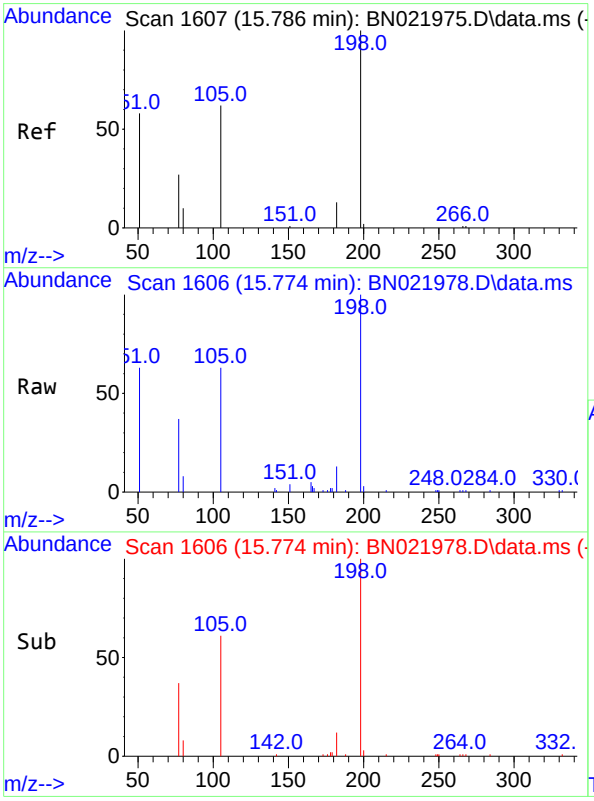
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.400 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 11942

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.3	7.5	11.3#

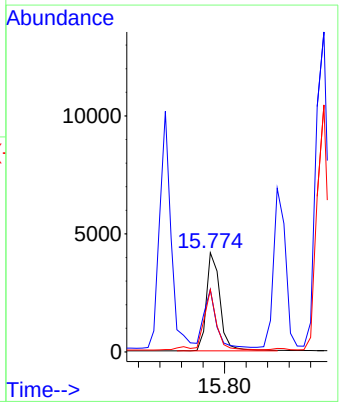


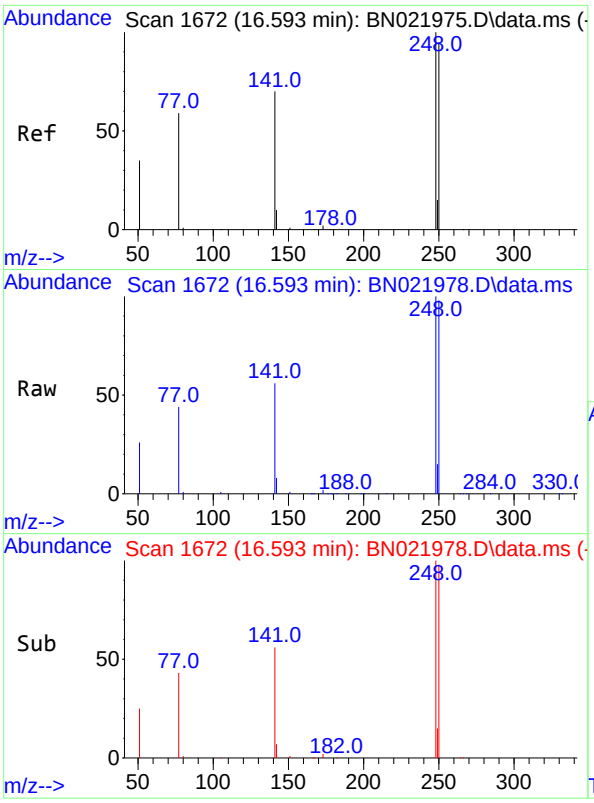


#20
4,6-Dinitro-2-methylphenol
Concen: 3.570 ng
RT: 15.774 min Scan# 1606
Delta R.T. -0.012 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:198 Resp: 7213

Ion	Ratio	Lower	Upper
198	100		
51	62.9	96.6	144.8#
105	62.6	64.4	96.6#



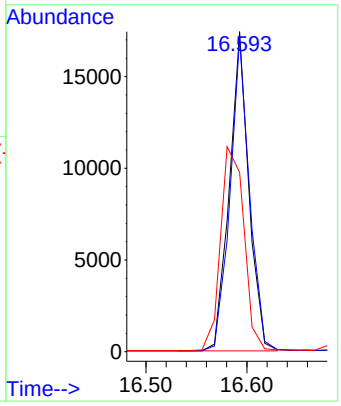


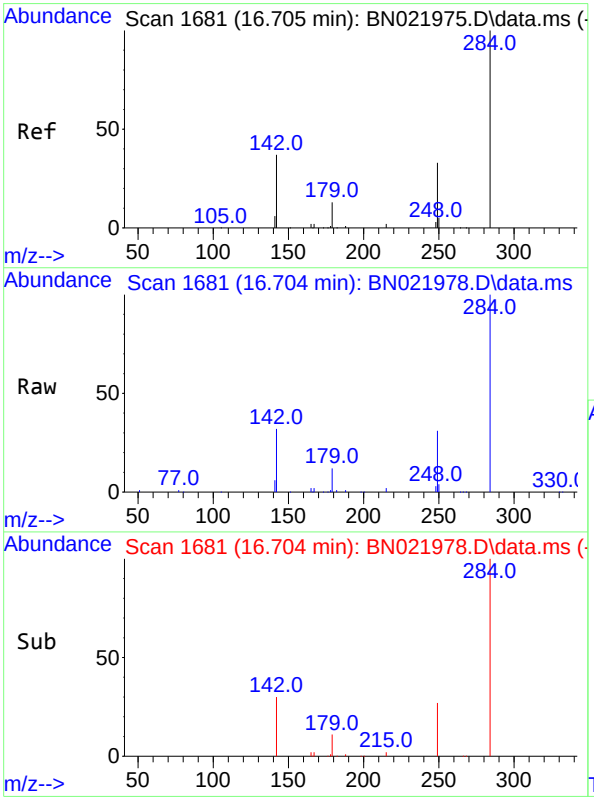
#21
4-Bromophenyl-phenylether
Concen: 3.085 ng
RT: 16.593 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 23268

Ion	Ratio	Lower	Upper
248	100		
250	98.1	76.6	114.8
141	56.0	57.5	86.3#

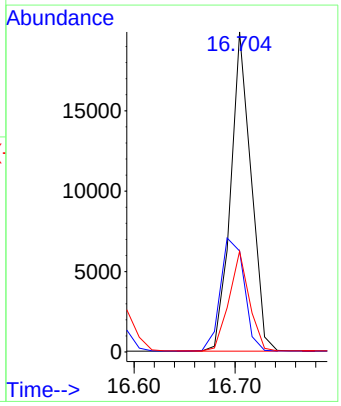


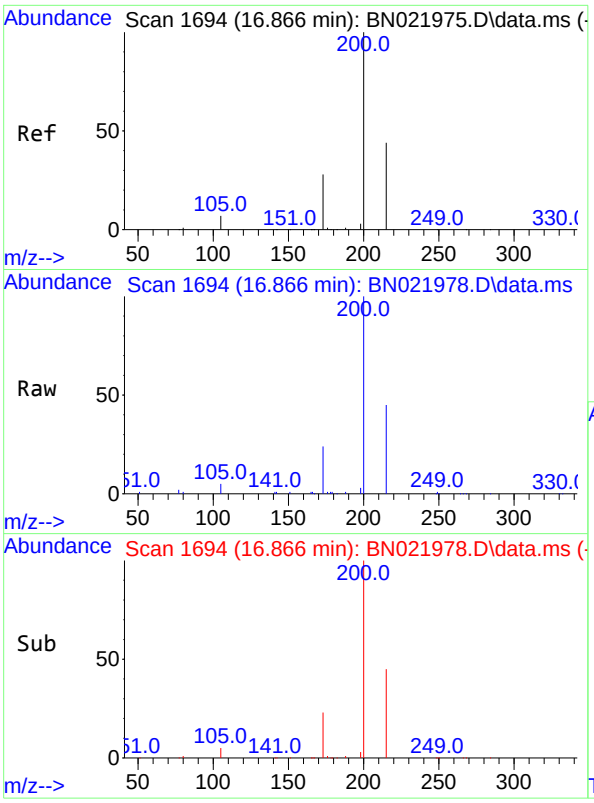


#22
Hexachlorobenzene
Concen: 3.179 ng
RT: 16.704 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:284 Resp: 27988

Ion	Ratio	Lower	Upper
284	100		
142	41.1	33.4	50.0
249	30.8	25.1	37.7



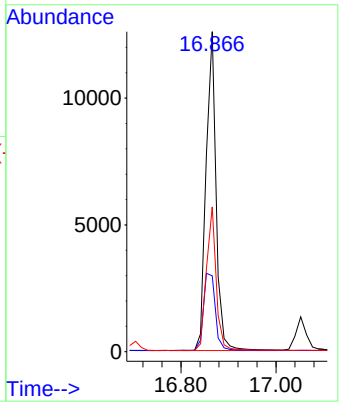


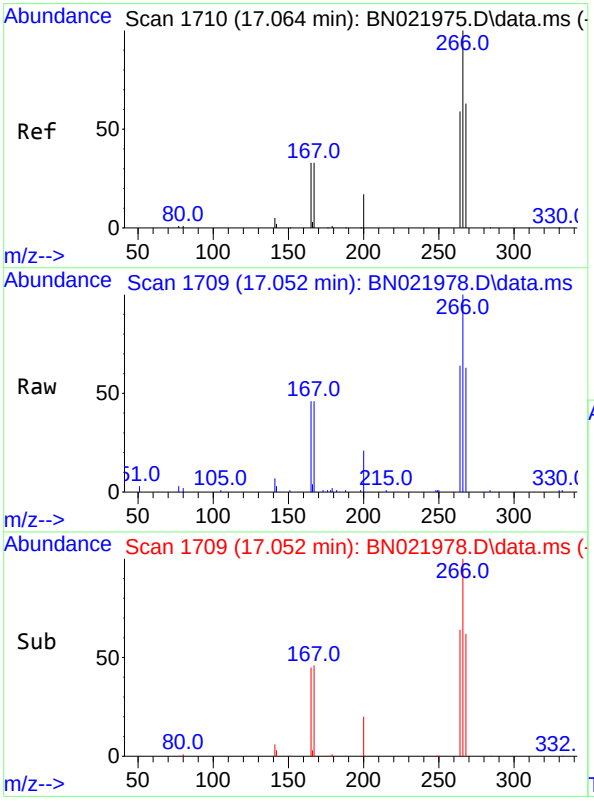
#23
Atrazine
Concen: 3.053 ng
RT: 16.866 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 18554

Ion	Ratio	Lower	Upper
200	100		
173	23.7	24.6	36.8#
215	45.3	37.1	55.7

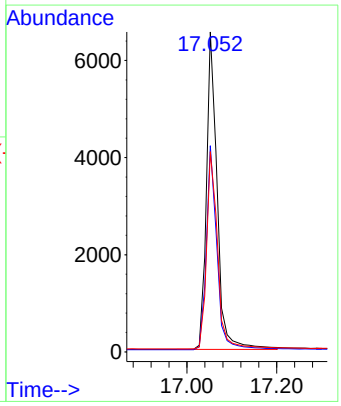


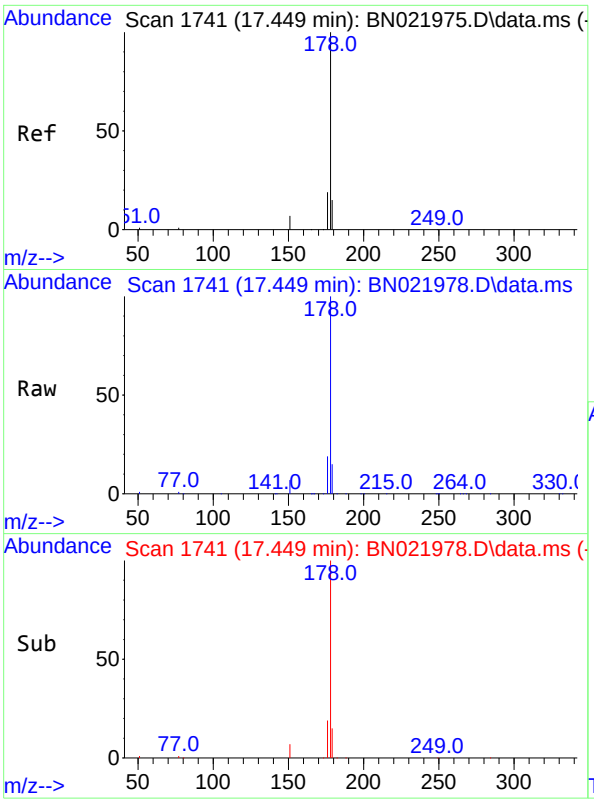


#24
Pentachlorophenol
Concen: 3.098 ng
RT: 17.052 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:266 Resp: 10783

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.8	74.6
268	63.9	49.6	74.4



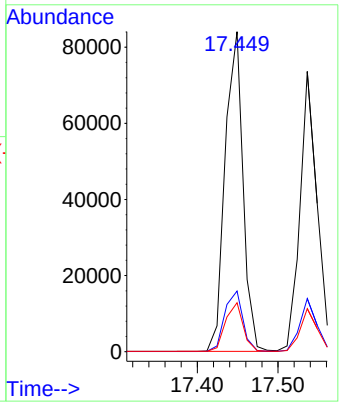


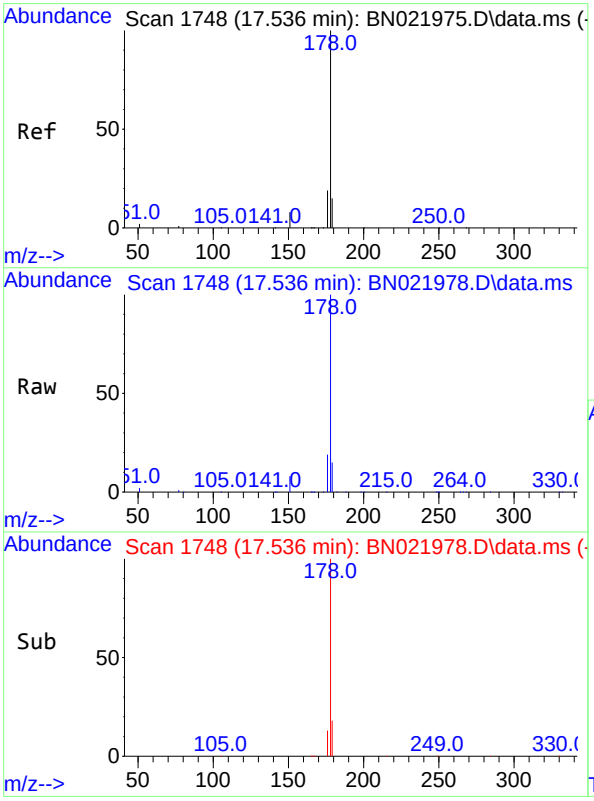
#25
Phenanthrene
Concen: 3.106 ng
RT: 17.449 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 129001

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.1	12.2	18.2

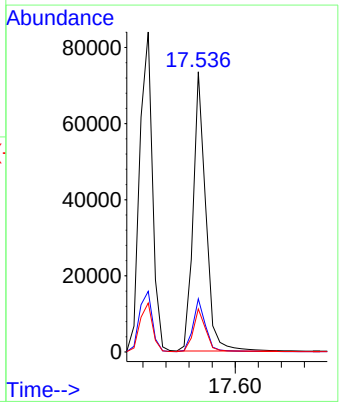


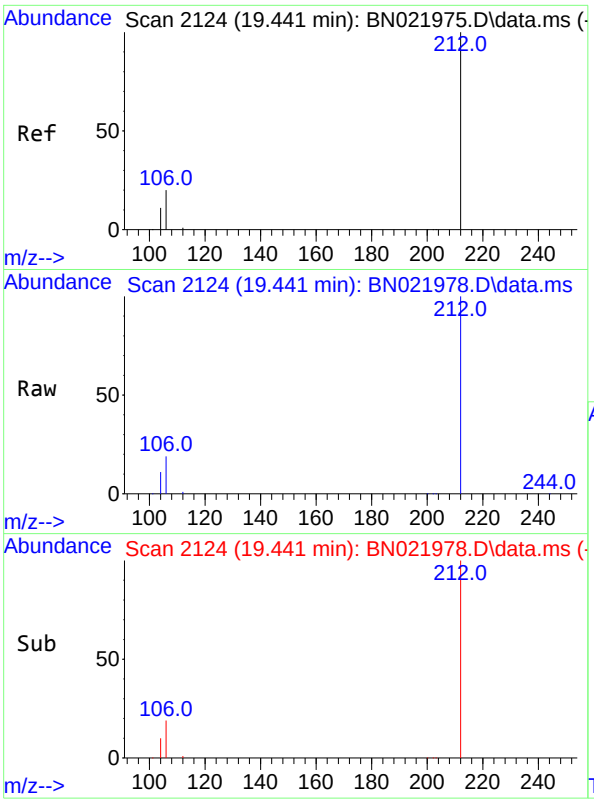


#26
Anthracene
Concen: 3.291 ng
RT: 17.536 min Scan# 1748
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:178 Resp: 111641

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.8	22.2
179	15.3	12.2	18.2



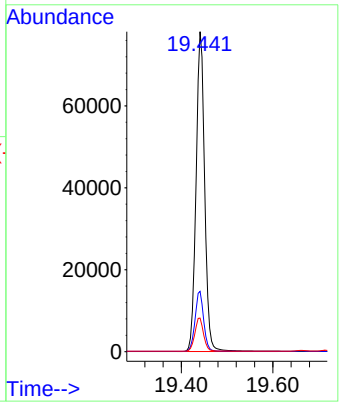


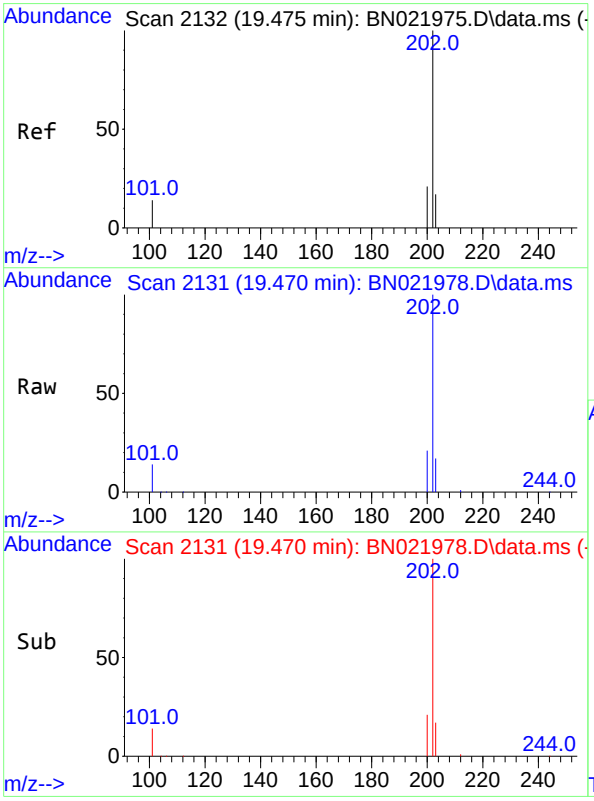
#27
Fluoranthene-d10
Concen: 3.118 ng
RT: 19.441 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 102045

Ion	Ratio	Lower	Upper
212	100		
106	18.9	15.2	22.8
104	10.6	8.6	13.0

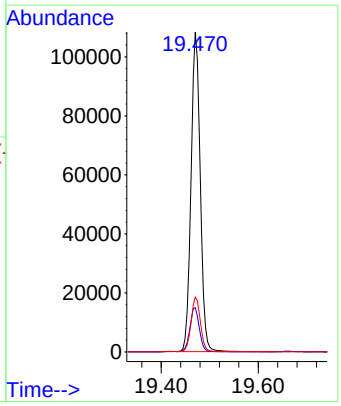


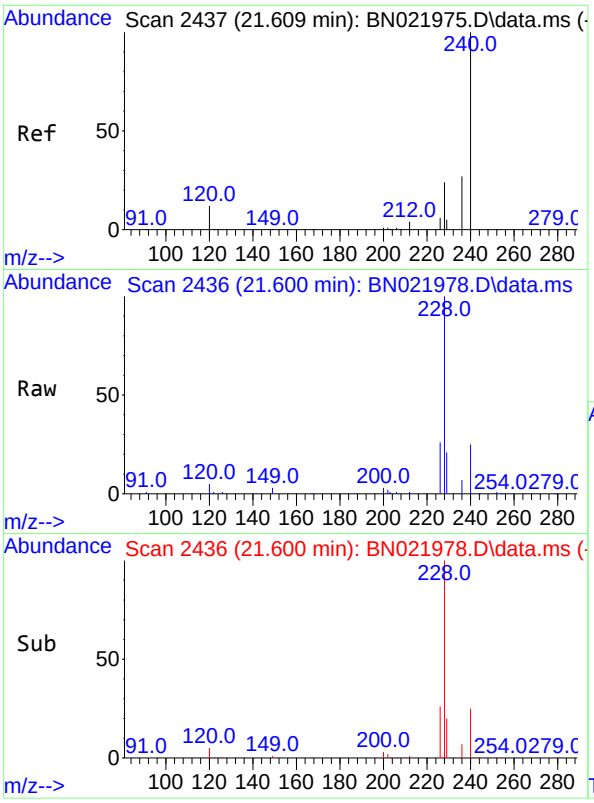


#28
Fluoranthene
Concen: 3.189 ng
RT: 19.470 min Scan# 2131
Delta R.T. -0.004 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:202 Resp: 142931

Ion	Ratio	Lower	Upper
202	100		
101	14.3	11.4	17.0
203	17.2	13.5	20.3



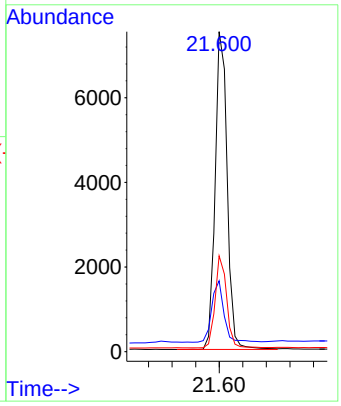


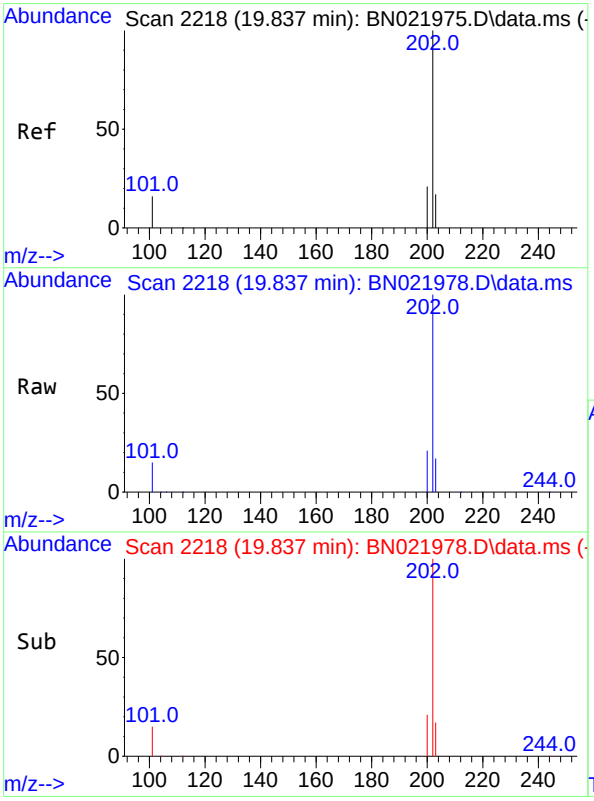
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.600 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 10629

Ion	Ratio	Lower	Upper
240	100		
120	22.2	11.8	17.6#
236	29.9	22.4	33.6

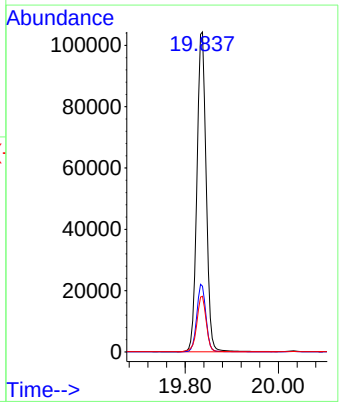


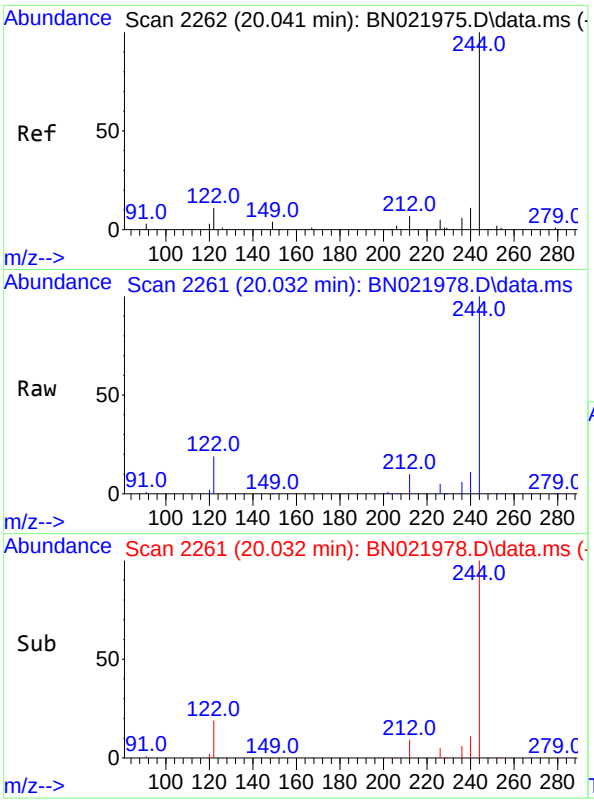


#30
Pyrene
Concen: 2.990 ng
RT: 19.837 min Scan# 2218
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:202 Resp: 142855

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	17.7	14.1	21.1



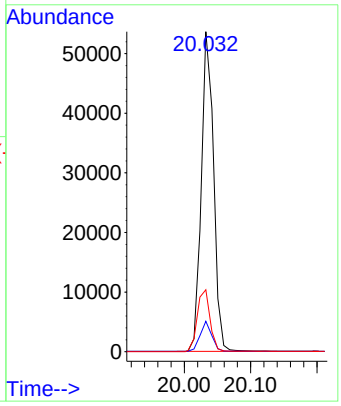


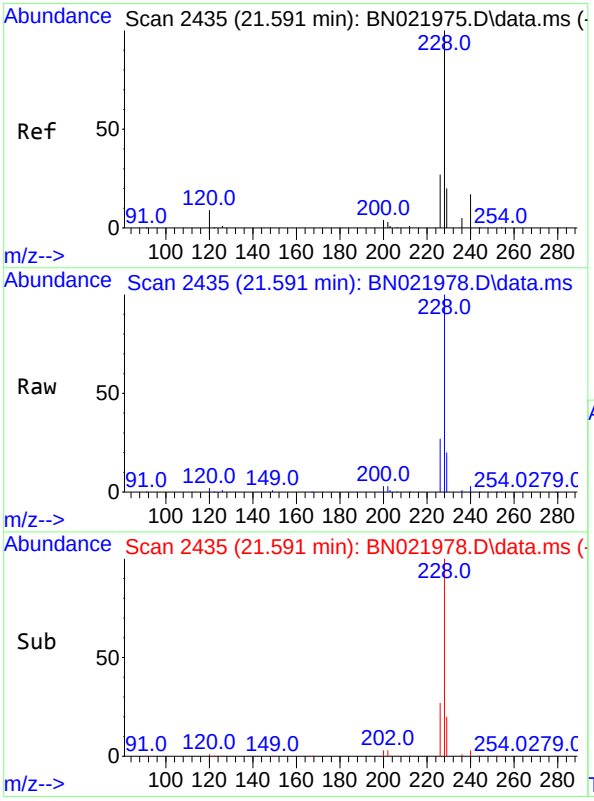
#31
Terphenyl-d14
Concen: 2.844 ng
RT: 20.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 60935

Ion	Ratio	Lower	Upper
244	100		
212	9.5	6.5	9.7
122	19.3	9.1	13.7#

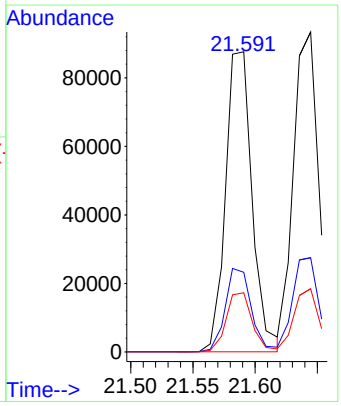


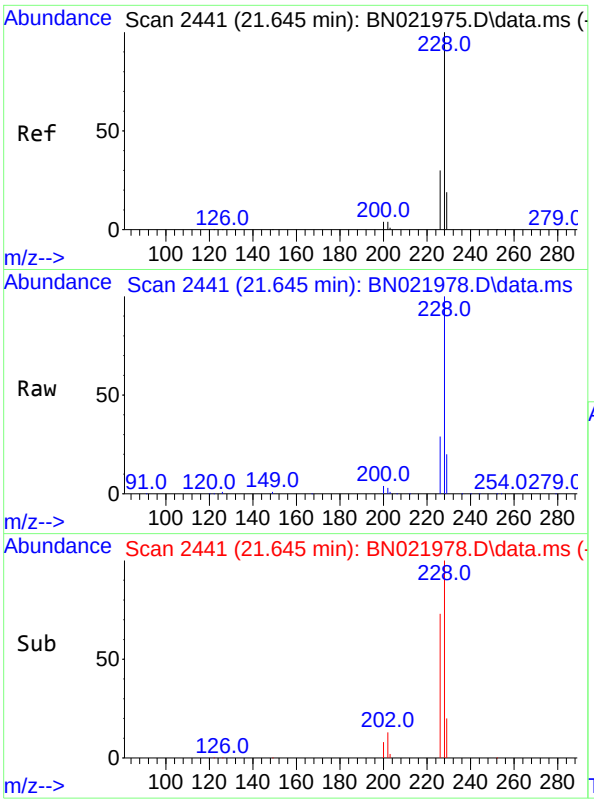


#32
Benzo(a)anthracene
Concen: 3.174 ng
RT: 21.591 min Scan# 2435
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:228 Resp: 130363

Ion	Ratio	Lower	Upper
228	100		
226	26.6	22.2	33.4
229	19.8	16.2	24.2



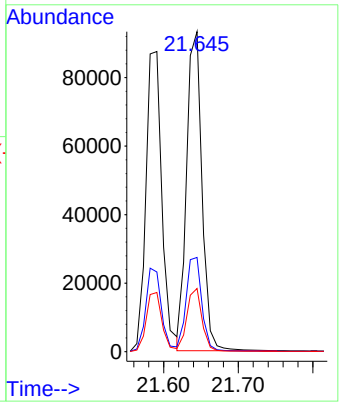


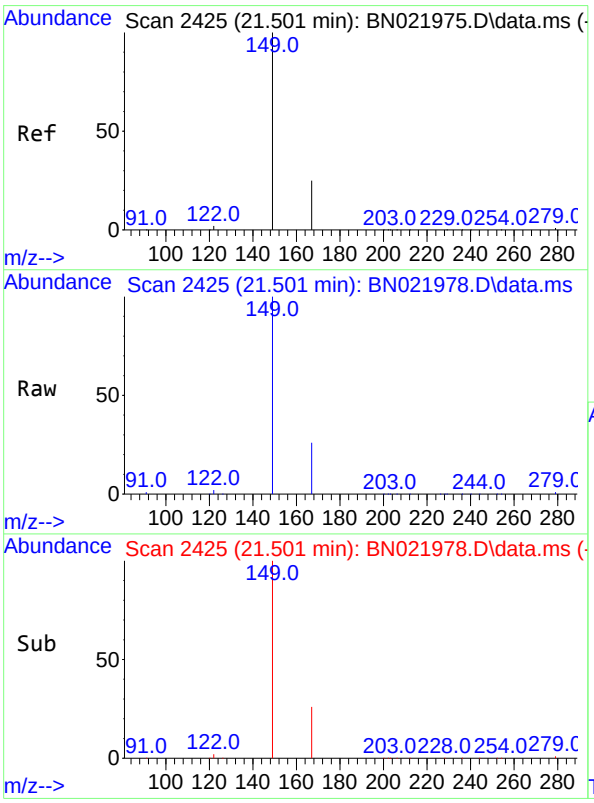
#33
Chrysene
Concen: 3.006 ng
RT: 21.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 133442

Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.2	36.2
229	19.8	15.8	23.6

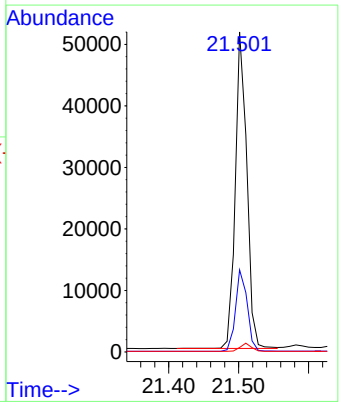


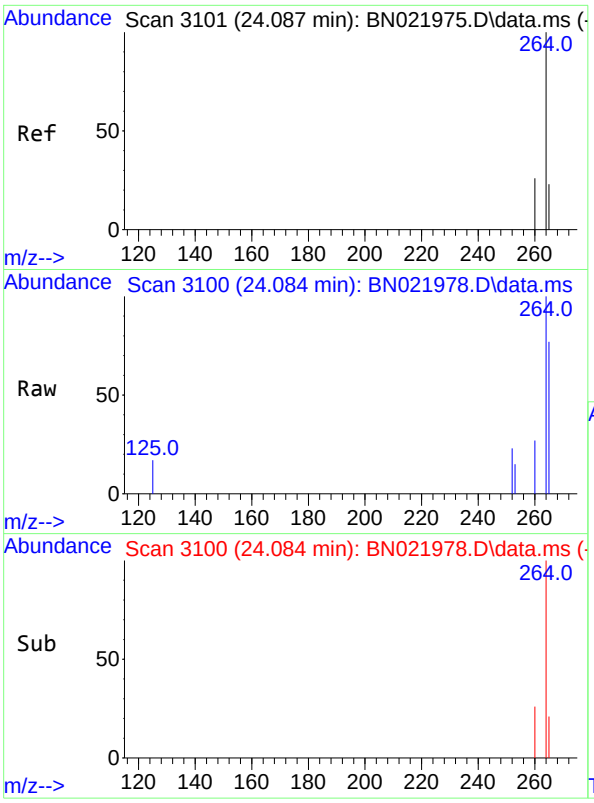


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.867 ng
RT: 21.501 min Scan# 2425
Delta R.T. -0.000 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:149 Resp: 58968

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.2	30.4
279	2.5	2.3	3.5



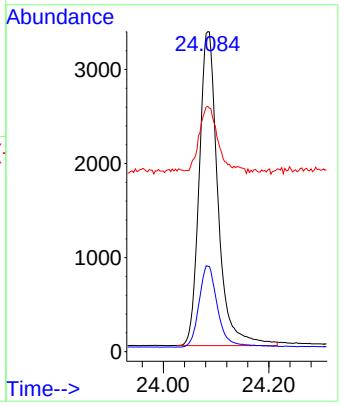


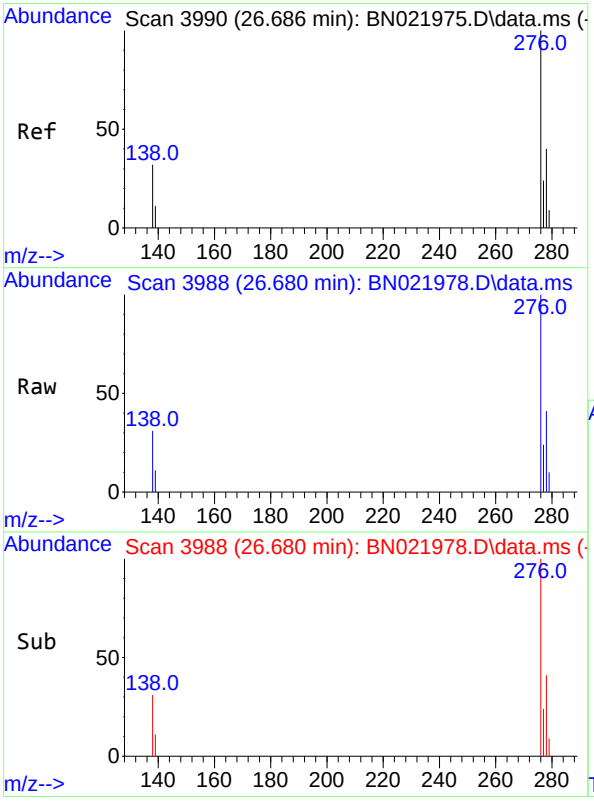
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.084 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 8206

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.3	31.9
265	76.7	63.0	94.4

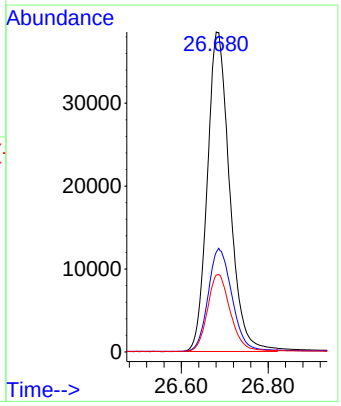


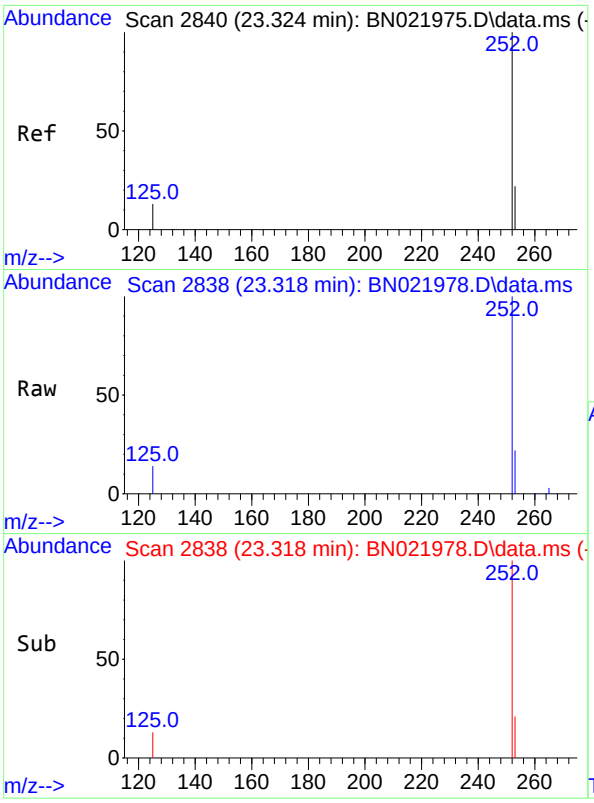


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.372 ng
RT: 26.680 min Scan# 3988
Delta R.T. -0.006 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:276 Resp: 137794

Ion	Ratio	Lower	Upper
276	100		
138	34.4	28.0	42.0
277	24.7	19.8	29.8



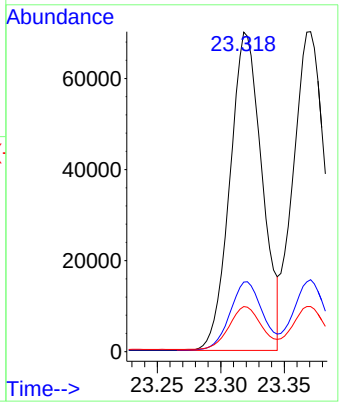


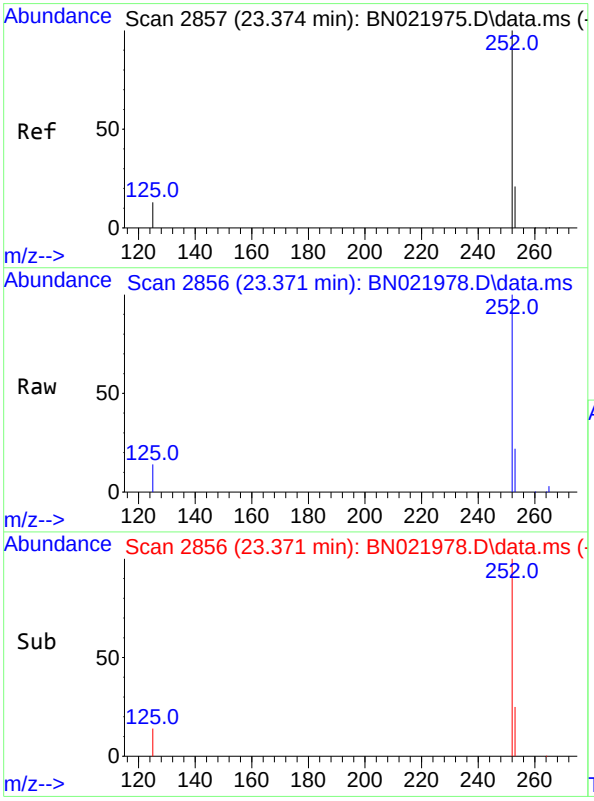
#37
Benzo(b)fluoranthene
Concen: 3.101 ng
RT: 23.318 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 122652

Ion	Ratio	Lower	Upper
252	100		
253	21.8	20.6	31.0
125	14.1	15.6	23.4#

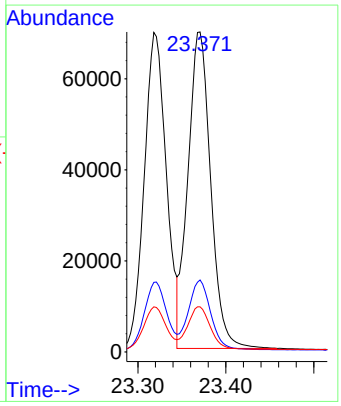


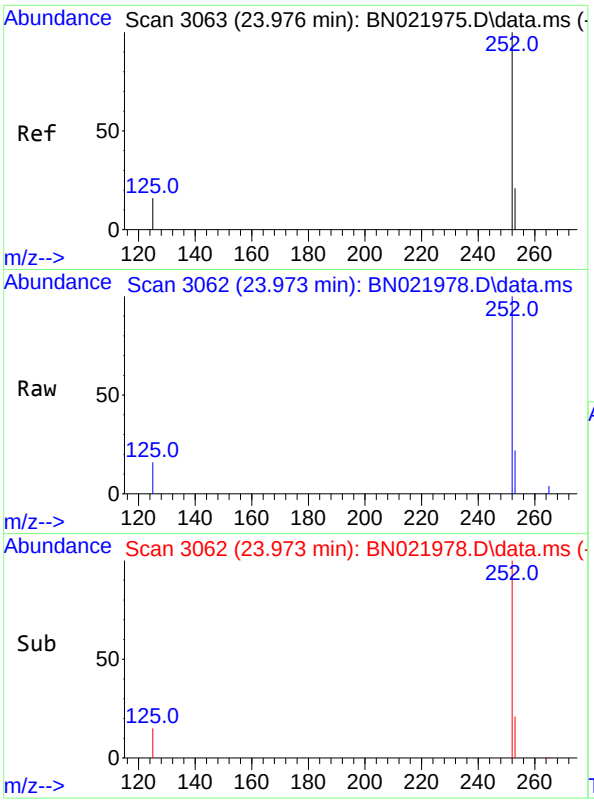


#38
Benzo(k)fluoranthene
Concen: 3.235 ng
RT: 23.371 min Scan# 2856
Delta R.T. -0.003 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:252 Resp: 125001

Ion	Ratio	Lower	Upper
252	100		
253	22.5	20.4	30.6
125	14.1	15.8	23.6#



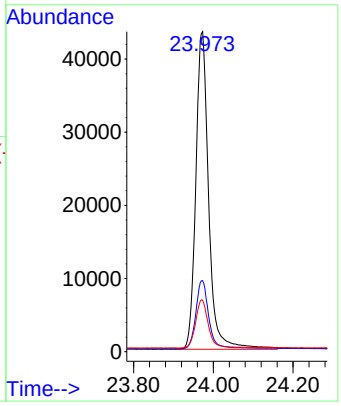


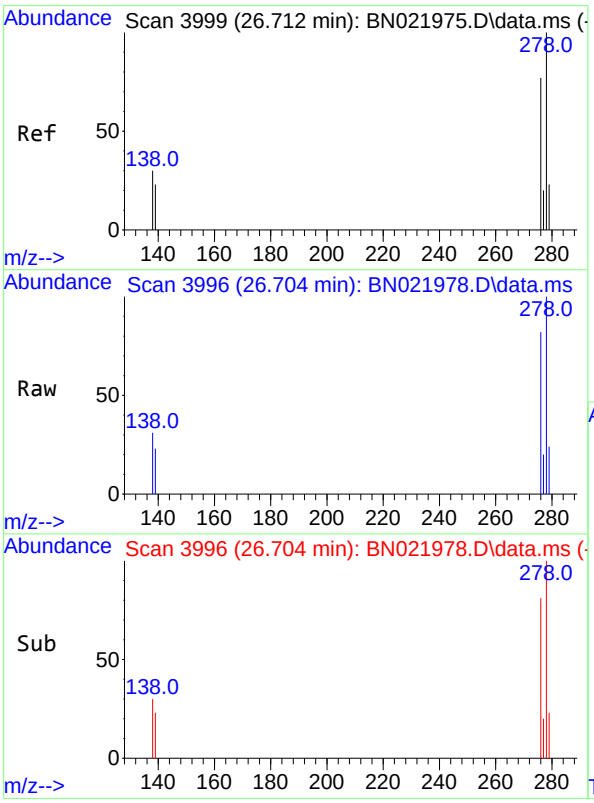
#39
Benzo(a)pyrene
Concen: 3.275 ng
RT: 23.973 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 97381

Ion	Ratio	Lower	Upper
252	100		
253	22.2	23.2	34.8#
125	16.1	21.1	31.7#

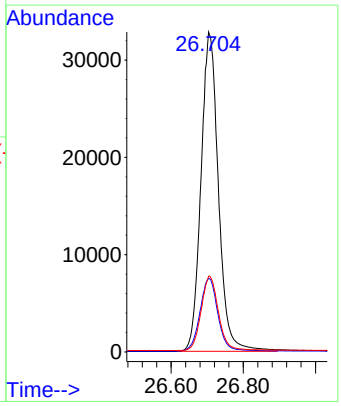


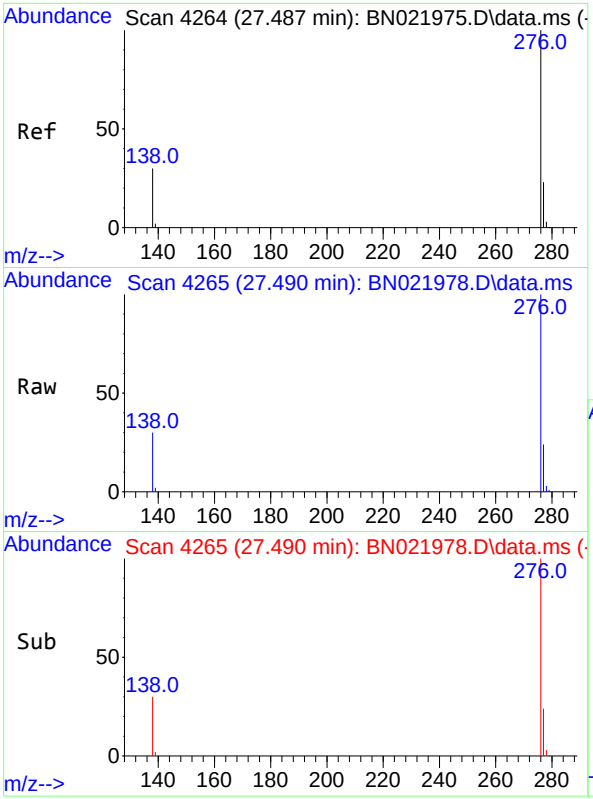


#40
Dibenzo(a,h)anthracene
Concen: 3.377 ng
RT: 26.704 min Scan# 3996
Delta R.T. -0.009 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Tgt Ion:278 Resp: 110327

Ion	Ratio	Lower	Upper
278	100		
139	23.0	19.9	29.9
279	23.6	21.9	32.9





#41
Benzo(g,h,i)perylene
Concen: 3.369 ng
RT: 27.490 min Scan# 4
Delta R.T. 0.003 min
Lab File: BN021978.D
Acq: 03 Oct 2022 15:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 114942

Ion	Ratio	Lower	Upper
276	100		
277	23.9	20.0	30.0
138	29.7	25.2	37.8