Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN012524\
Data File : BN029380.D
Acq On : 25 Jan 2024 10:49
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jan 26 01:27:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN012524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 26 01:26:21 2024
Response via : Initial Calibration

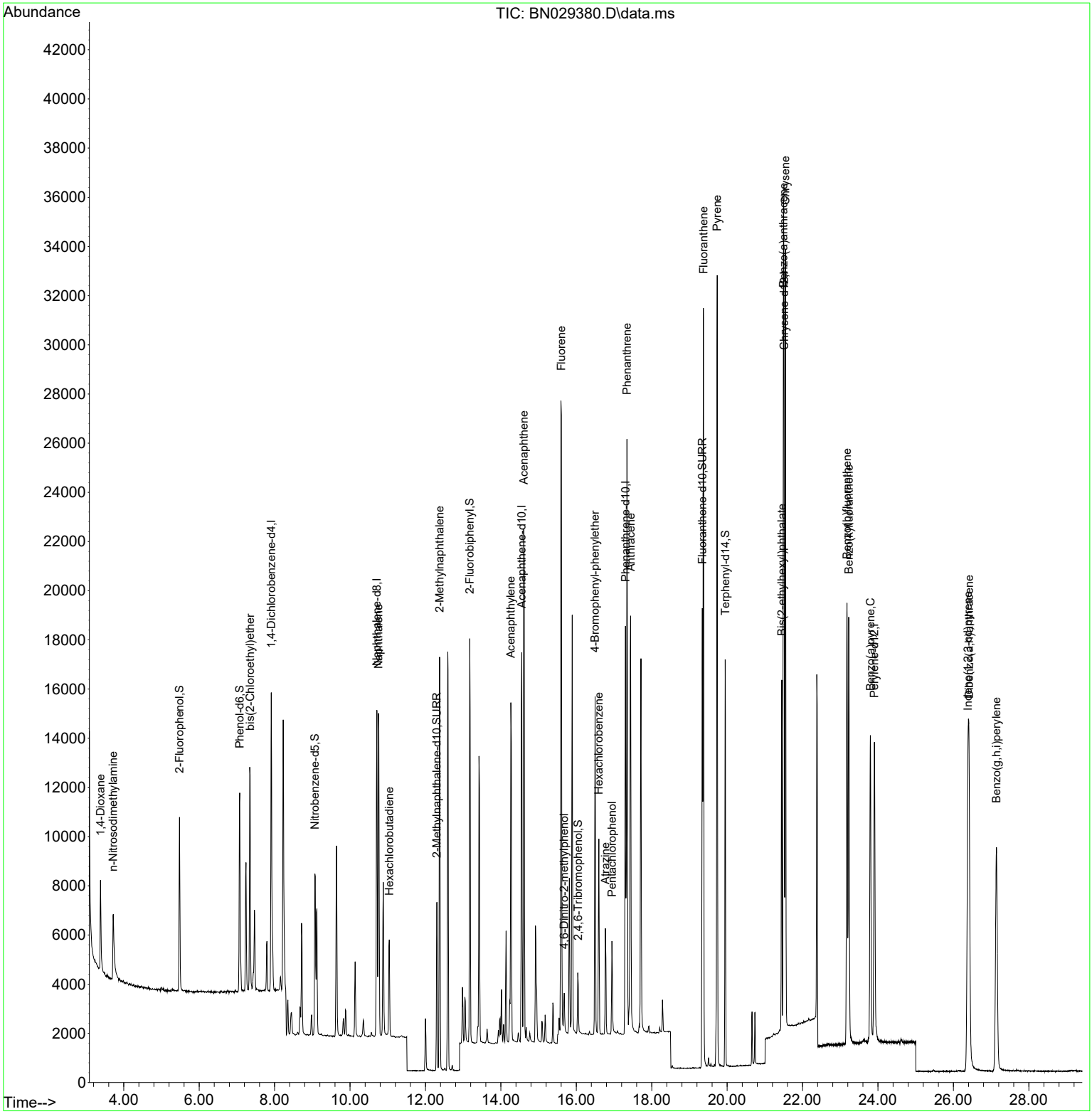
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.912	152	5745	0.400	ng		0.00
7) Naphthalene-d8	10.712	136	17024	0.400	ng		0.00
13) Acenaphthene-d10	14.554	164	9407	0.400	ng		0.00
19) Phenanthrene-d10	17.305	188	21611	0.400	ng		0.00
29) Chrysene-d12	21.510	240	18367	0.400	ng		0.00
35) Perylene-d12	23.905	264	17235	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.478	112	5814	0.370	ng		0.00
5) Phenol-d6	7.074	99	7772	0.369	ng		0.00
8) Nitrobenzene-d5	9.067	82	5919	0.330	ng		-0.01
11) 2-Methylnaphthalene-d10	12.303	152	9073	0.334	ng		0.00
14) 2,4,6-Tribromophenol	16.051	330	1434	0.346	ng		0.00
15) 2-Fluorobiphenyl	13.175	172	14296	0.329	ng		0.00
27) Fluoranthene-d10	19.341	212	19730	0.317	ng		0.00
31) Terphenyl-d14	19.949	244	15288	0.334	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.384	88	2584	0.334	ng		96
3) n-Nitrosodimethylamine	3.716	42	2449	0.325	ng	#	89
6) bis(2-Chloroethyl)ether	7.349	93	6981	0.356	ng		98
9) Naphthalene	10.754	128	18148	0.335	ng		98
10) Hexachlorobutadiene	11.043	225	3270	0.330	ng	#	99
12) 2-Methylnaphthalene	12.374	142	11562	0.332	ng		98
16) Acenaphthylene	14.265	152	16130	0.324	ng		99
17) Acenaphthene	14.607	154	10973	0.330	ng		99
18) Fluorene	15.605	166	14655	0.332	ng		100
20) 4,6-Dinitro-2-methylph...	15.679	198	1032	0.275	ng		98
21) 4-Bromophenyl-phenylether	16.498	248	4800	0.327	ng		98
22) Hexachlorobenzene	16.598	284	5476	0.325	ng		100
23) Atrazine	16.771	200	3511	0.319	ng		98
24) Pentachlorophenol	16.945	266	1867	0.299	ng		99
25) Phenanthrene	17.342	178	24249	0.330	ng		100
26) Anthracene	17.442	178	20762	0.320	ng		100
28) Fluoranthene	19.373	202	27542	0.319	ng		99
30) Pyrene	19.735	202	27925	0.335	ng		100
32) Benzo(a)anthracene	21.492	228	24938	0.334	ng		100
33) Chrysene	21.546	228	25283	0.325	ng		99
34) Bis(2-ethylhexyl)phtha...	21.447	149	13904	0.303	ng		99
36) Indeno(1,2,3-cd)pyrene	26.385	276	23395	0.314	ng		100
37) Benzo(b)fluoranthene	23.177	252	23975	0.329	ng		100
38) Benzo(k)fluoranthene	23.227	252	23585	0.332	ng		99
39) Benzo(a)pyrene	23.797	252	19384	0.330	ng		98
40) Dibenzo(a,h)anthracene	26.414	278	18796	0.313	ng		98
41) Benzo(g,h,i)perylene	27.142	276	20349	0.312	ng		99

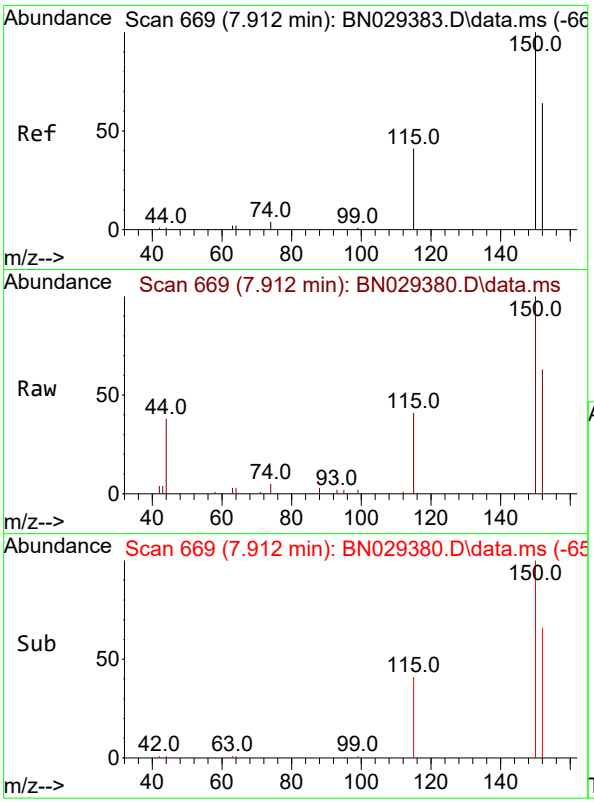
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN012524\
Data File : BN029380.D
Acq On : 25 Jan 2024 10:49
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jan 26 01:27:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN012524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 26 01:26:21 2024
Response via : Initial Calibration



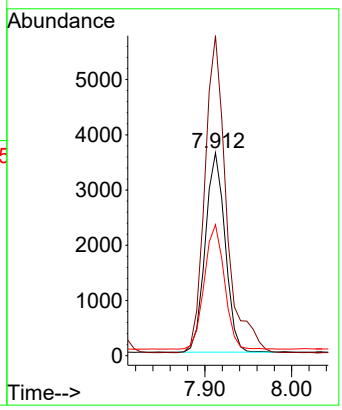


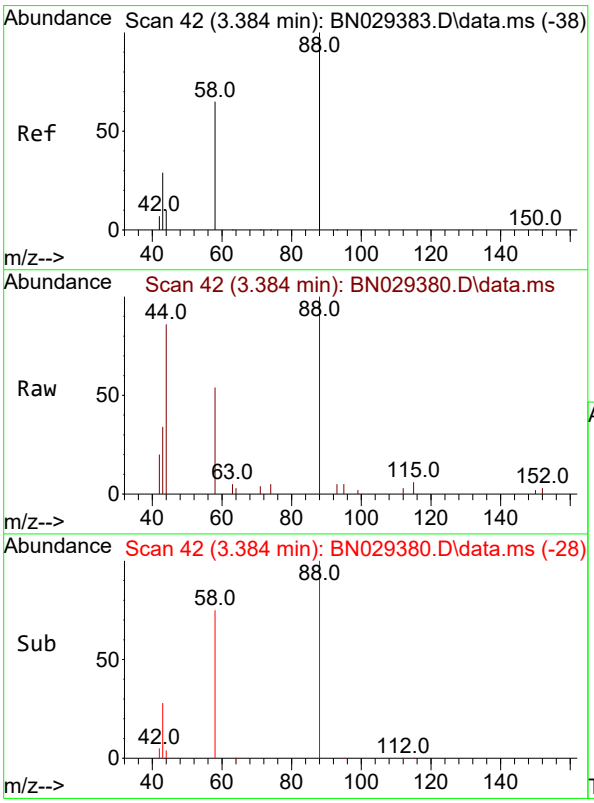
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.912 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5745

Ion	Ratio	Lower	Upper
152	100		
150	157.7	123.6	185.4
115	64.6	53.2	79.8

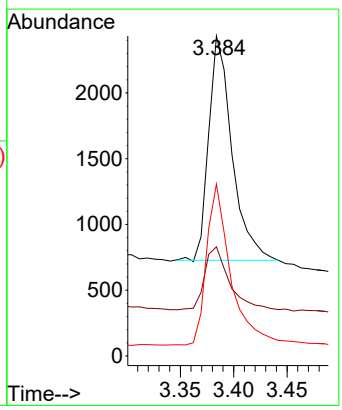


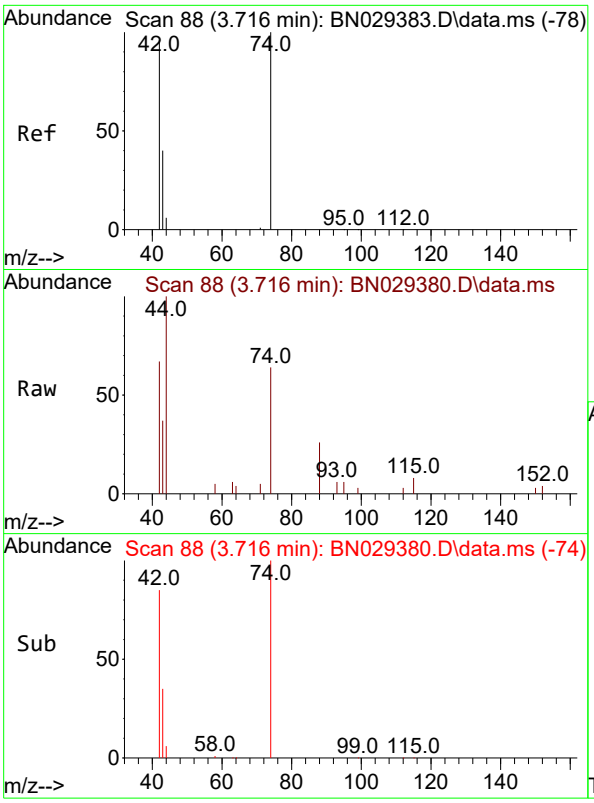


#2
1,4-Dioxane
Concen: 0.334 ng
RT: 3.384 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion: 88 Resp: 2584

Ion	Ratio	Lower	Upper
88	100		
43	29.5	25.3	37.9
58	74.2	56.9	85.3



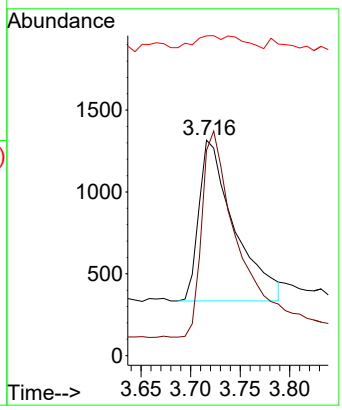


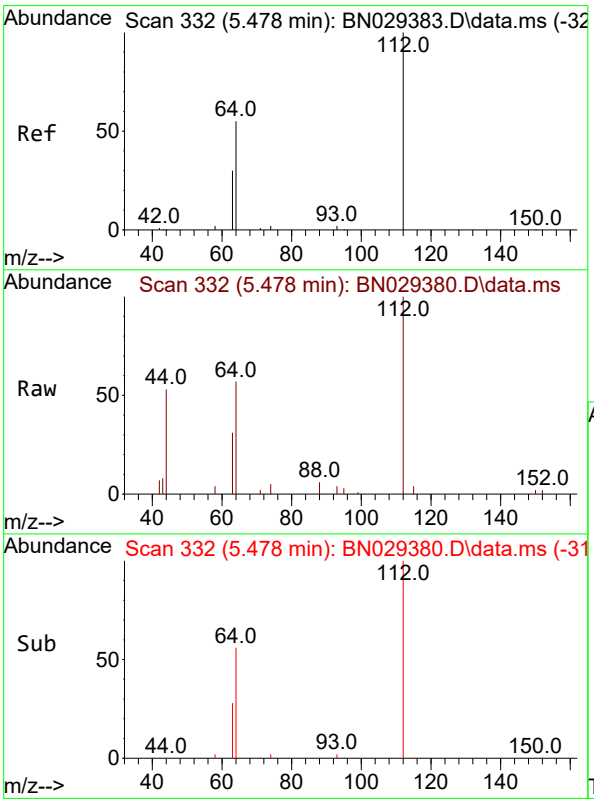
#3
n-Nitrosodimethylamine
Concen: 0.325 ng
RT: 3.716 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2449

Ion	Ratio	Lower	Upper
42	100		
74	129.1	93.5	140.3
44	5.3	3.1	4.7#

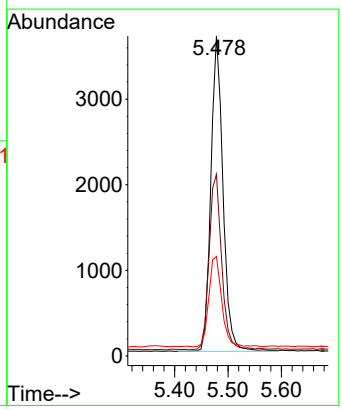


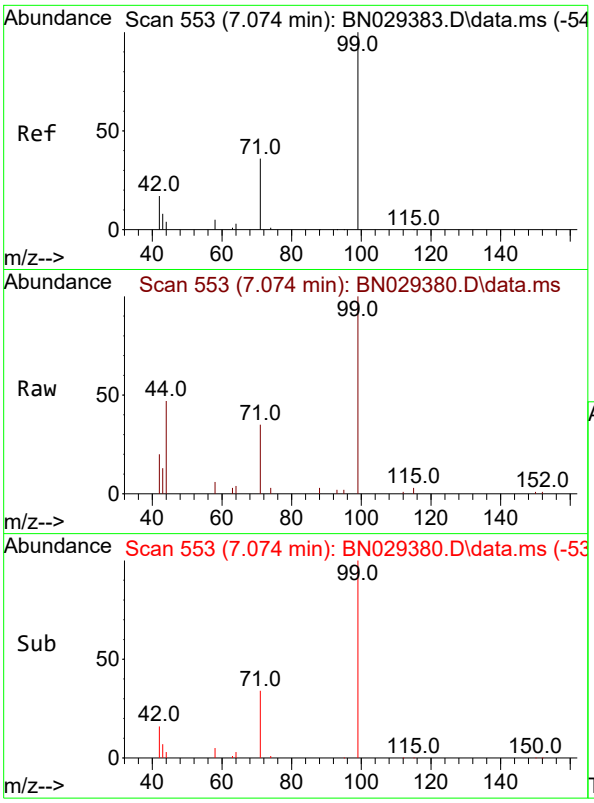


#4
2-Fluorophenol
Concen: 0.370 ng
RT: 5.478 min Scan# 332
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:112 Resp: 5814

Ion	Ratio	Lower	Upper
112	100		
64	57.6	46.2	69.4
63	30.5	25.8	38.8



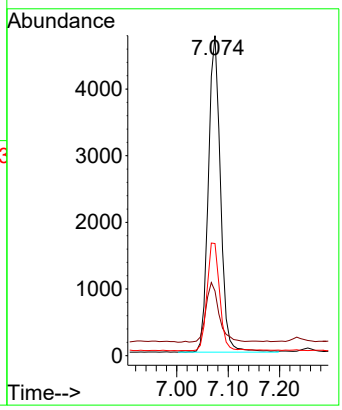


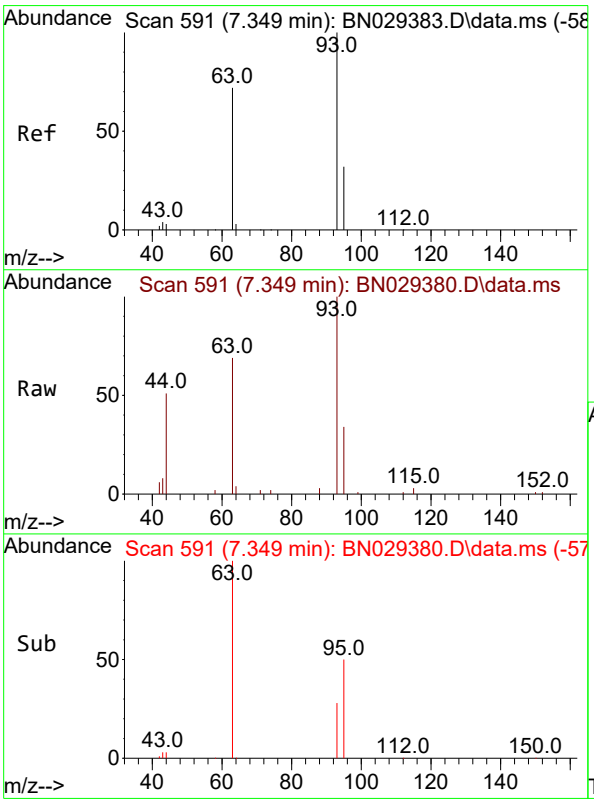
#5
Phenol-d6
Concen: 0.369 ng
RT: 7.074 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 7772

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.9	25.3
71	35.6	29.7	44.5

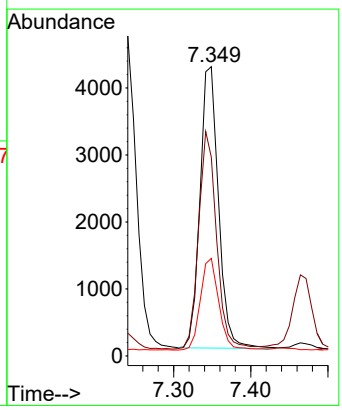


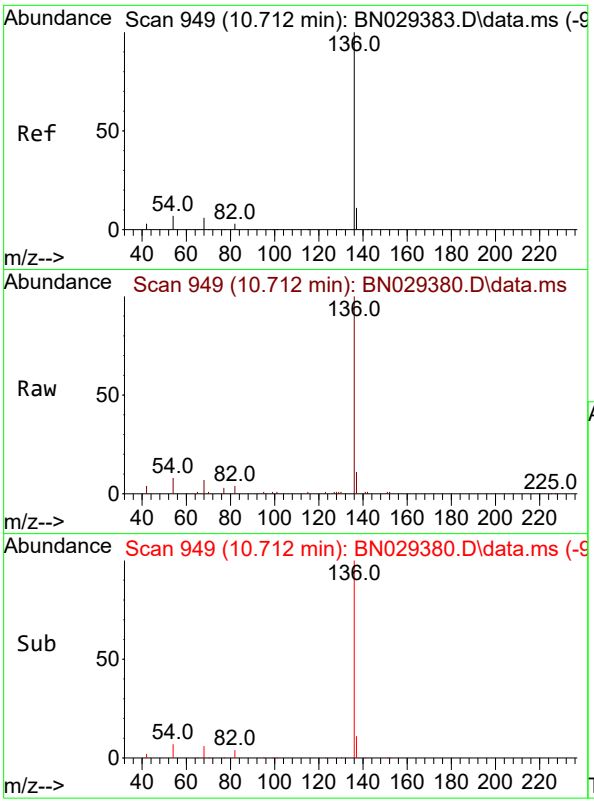


#6
bis(2-Chloroethyl)ether
Concen: 0.356 ng
RT: 7.349 min Scan# 591
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion: 93 Resp: 6981

Ion	Ratio	Lower	Upper
93	100		
63	75.3	62.2	93.2
95	32.7	26.3	39.5



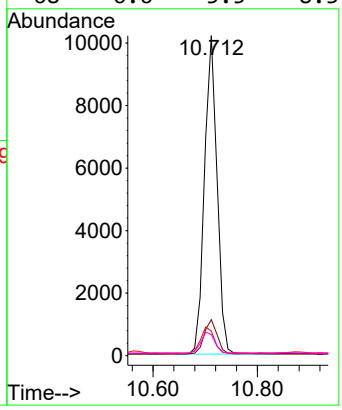


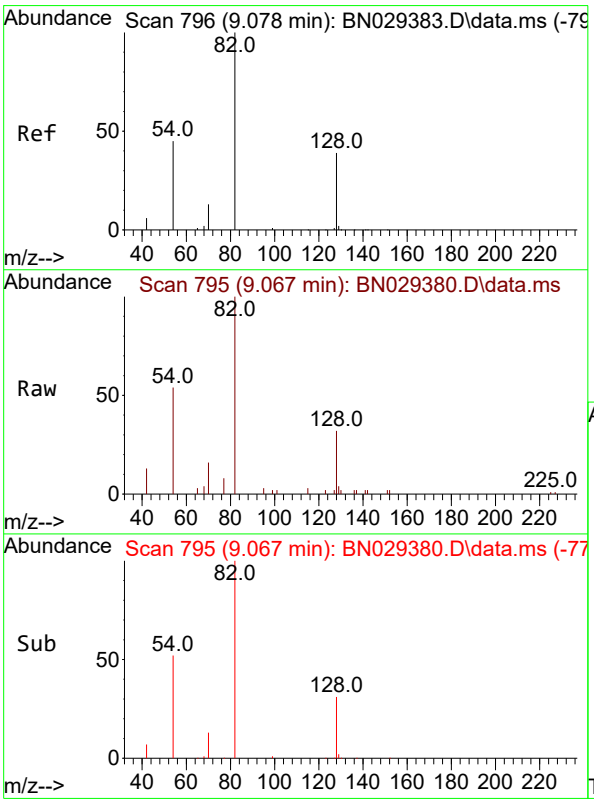
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.712 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 17024

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	7.7	6.4	9.6
68	6.6	5.5	8.3

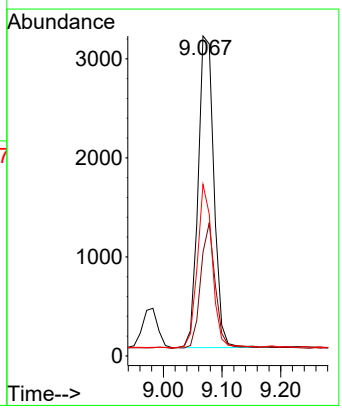


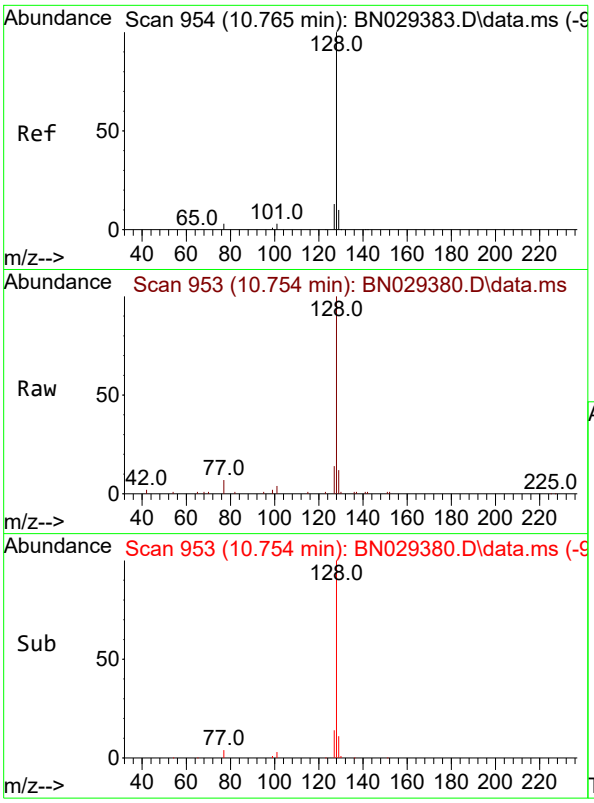


#8
Nitrobenzene-d5
Concen: 0.330 ng
RT: 9.067 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion: 82 Resp: 5919

Ion	Ratio	Lower	Upper
82	100		
128	32.4	33.0	49.6#
54	53.6	37.6	56.4



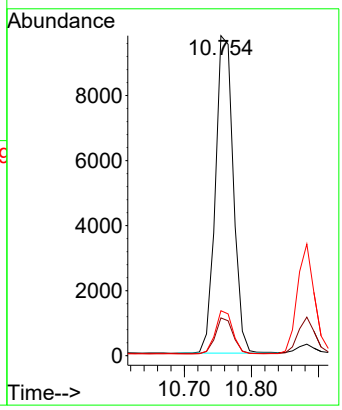


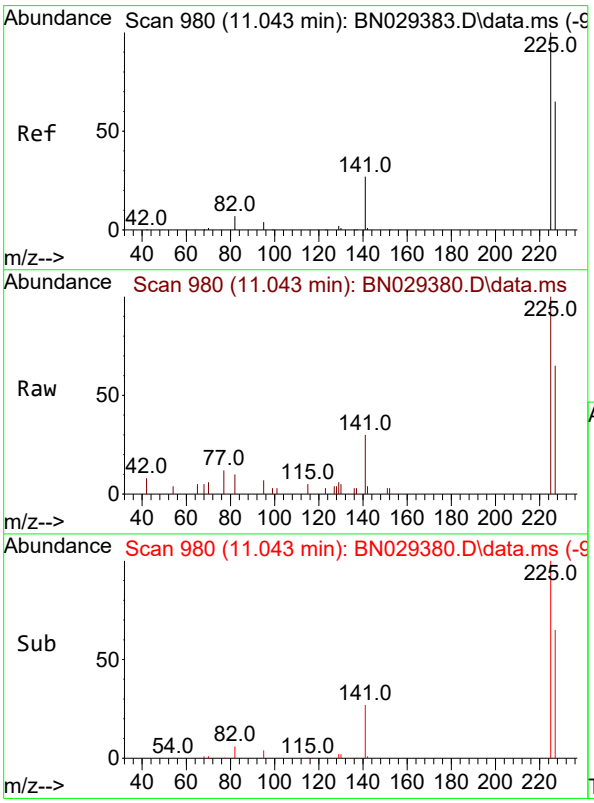
#9
Naphthalene
Concen: 0.335 ng
RT: 10.754 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 18148

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.0	13.6
127	14.1	10.6	15.8

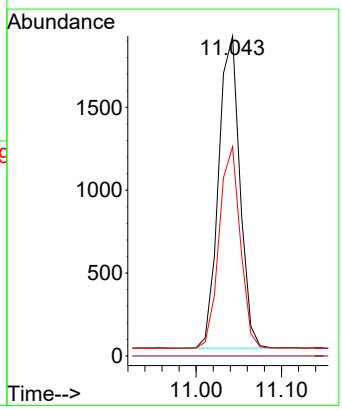


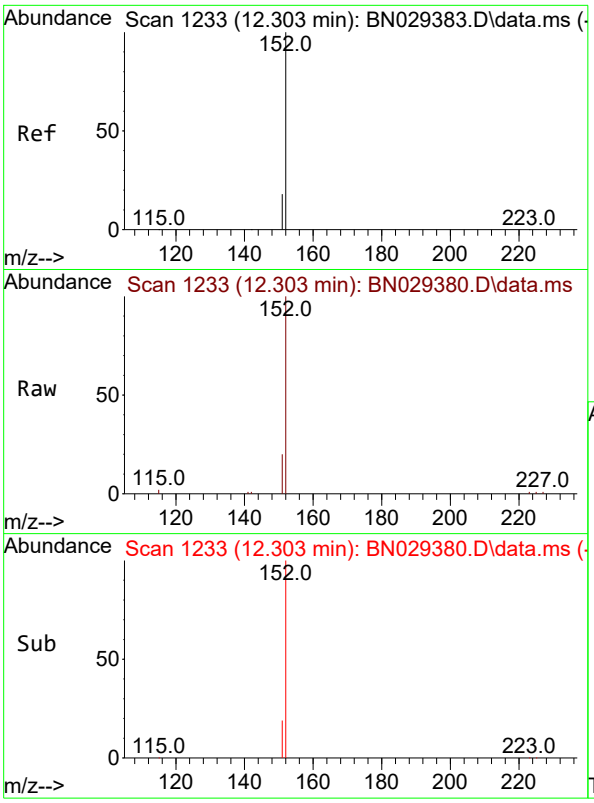


#10
Hexachlorobutadiene
Concen: 0.330 ng
RT: 11.043 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:225 Resp: 3270

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.8	77.6



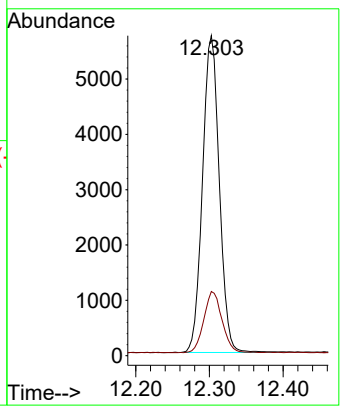


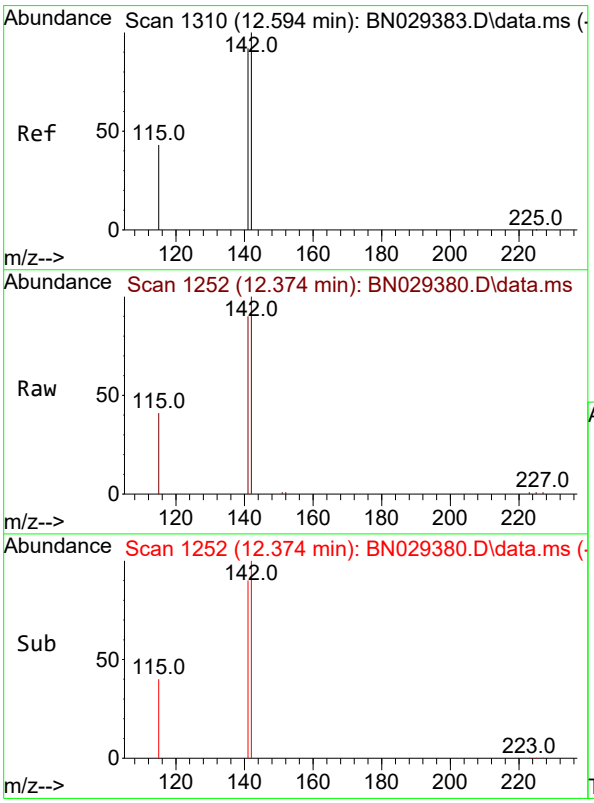
#11
2-Methylnaphthalene-d10
Concen: 0.334 ng
RT: 12.303 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 9073

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.8	25.2

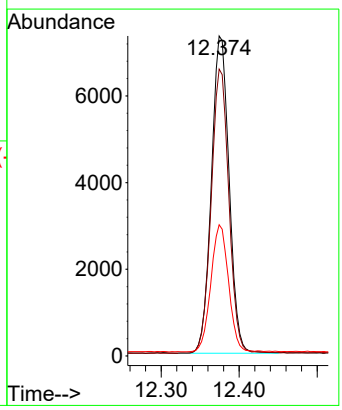


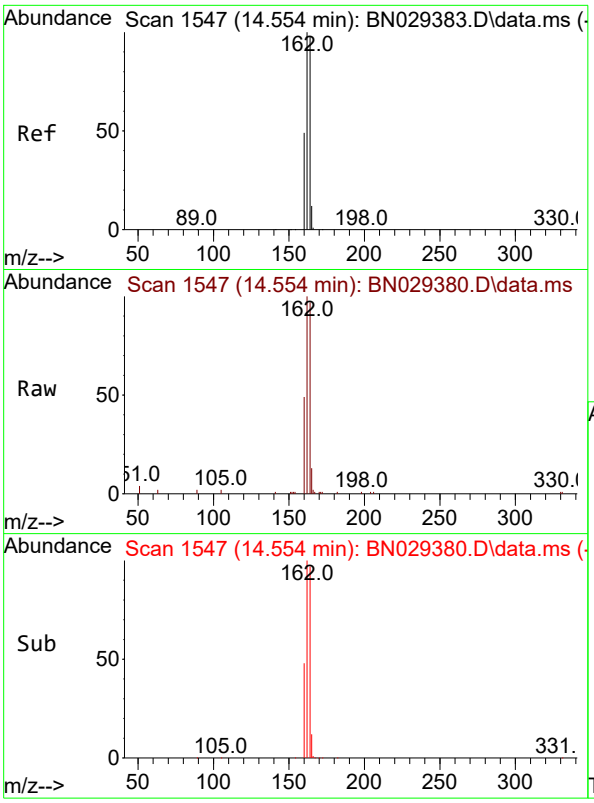


#12
2-Methylnaphthalene
Concen: 0.332 ng
RT: 12.374 min Scan# 1252
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:142 Resp: 11562

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.0	106.4
115	41.0	34.3	51.5



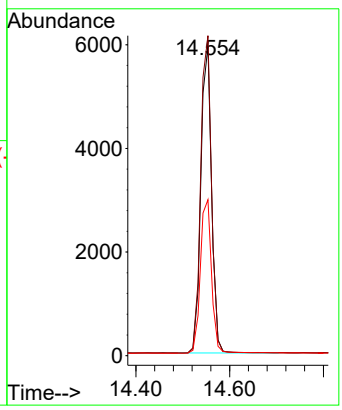


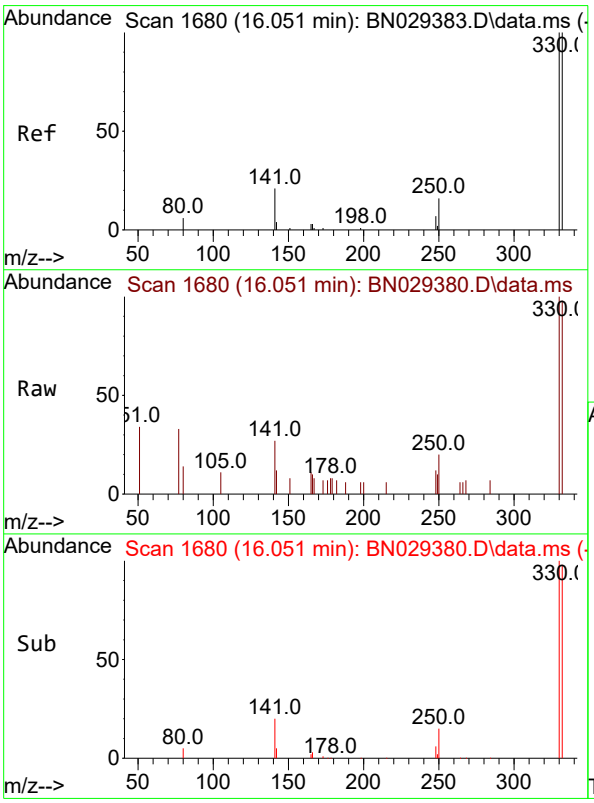
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.554 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 9407

Ion	Ratio	Lower	Upper
164	100		
162	103.3	81.3	121.9
160	50.4	40.2	60.2

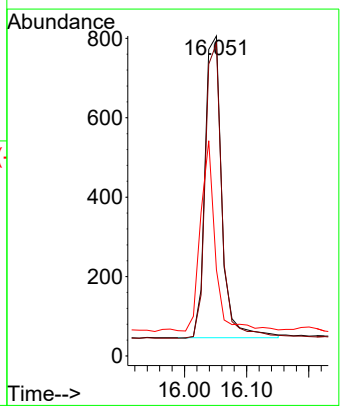


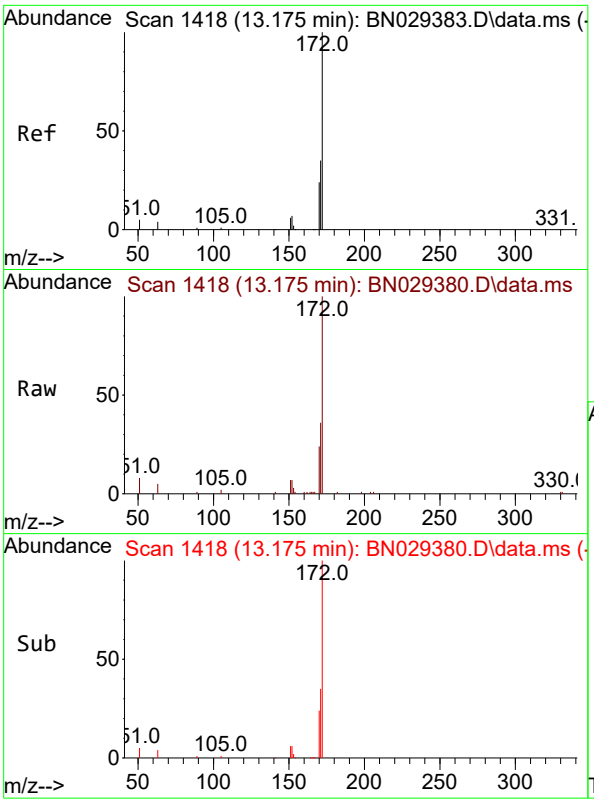


#14
2,4,6-Tribromophenol
Concen: 0.346 ng
RT: 16.051 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:330 Resp: 1434

Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.5	113.3
141	55.0	43.0	64.6



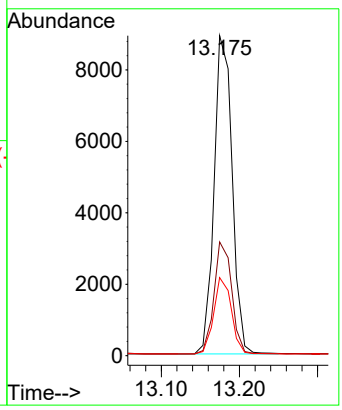


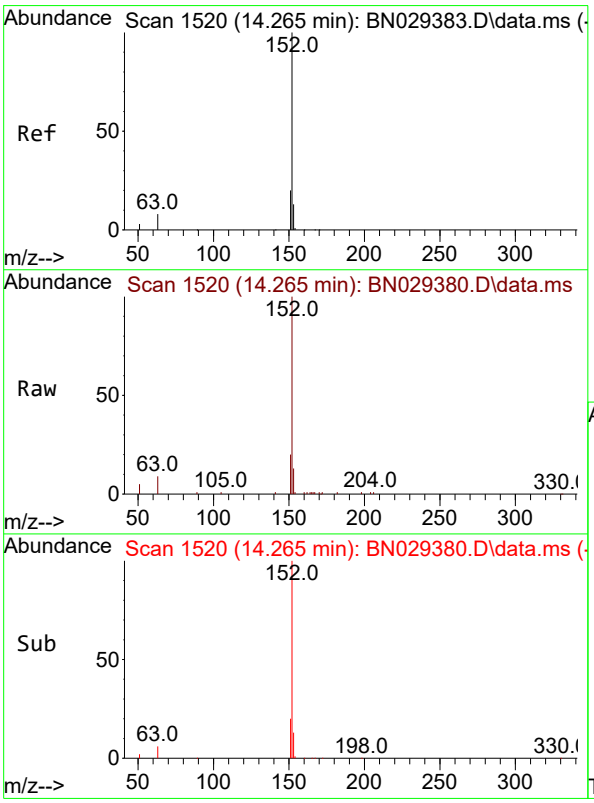
#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 13.175 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 14296

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.4	20.1	30.1

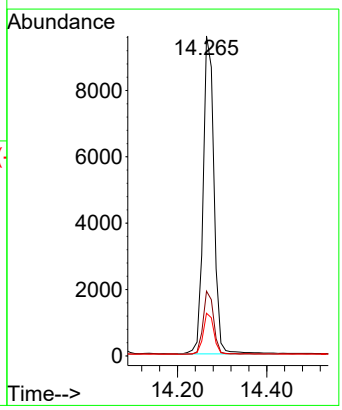


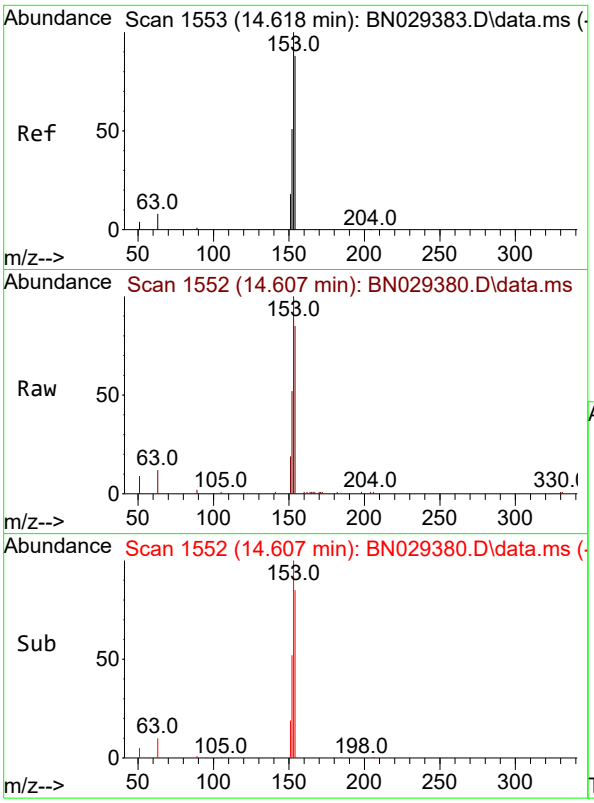


#16
Acenaphthylene
Concen: 0.324 ng
RT: 14.265 min Scan# 1520
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:152 Resp: 16130

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.7	23.5
153	12.7	10.4	15.6



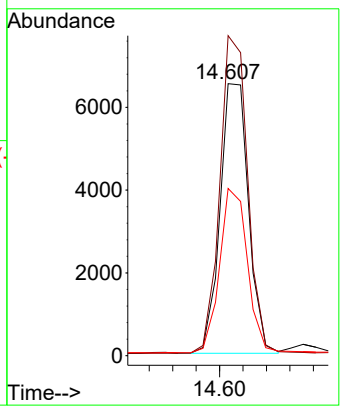


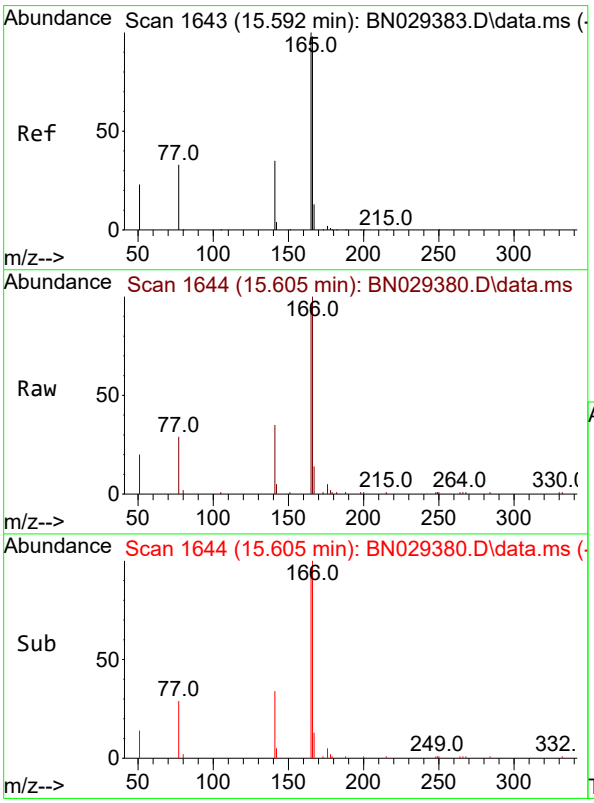
#17
Acenaphthene
Concen: 0.330 ng
RT: 14.607 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 10973

Ion	Ratio	Lower	Upper
154	100		
153	115.8	93.6	140.4
152	60.4	49.0	73.4

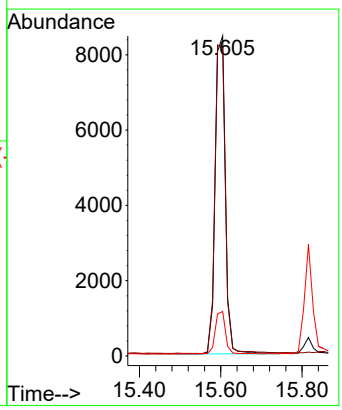


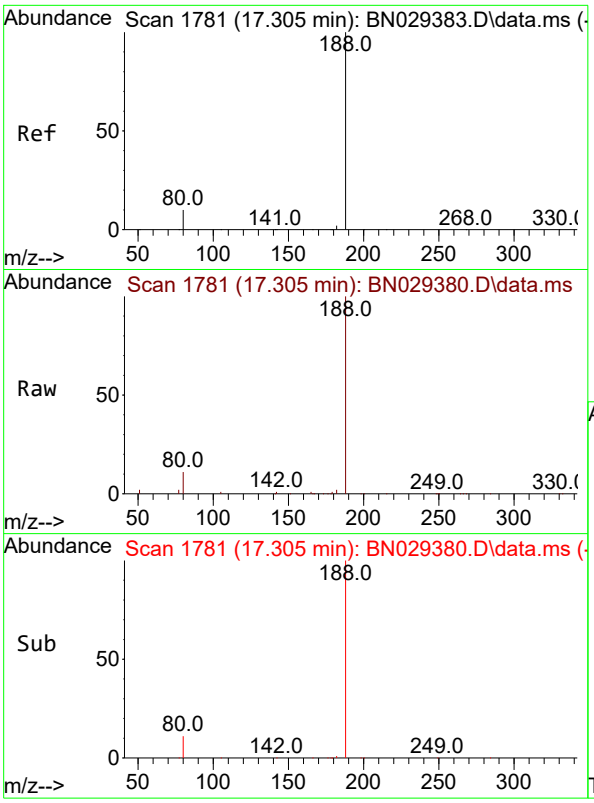


#18
Fluorene
Concen: 0.332 ng
RT: 15.605 min Scan# 1644
Delta R.T. 0.012 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:166 Resp: 14655

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.5	10.7	16.1



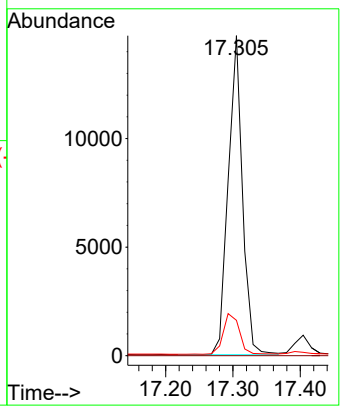


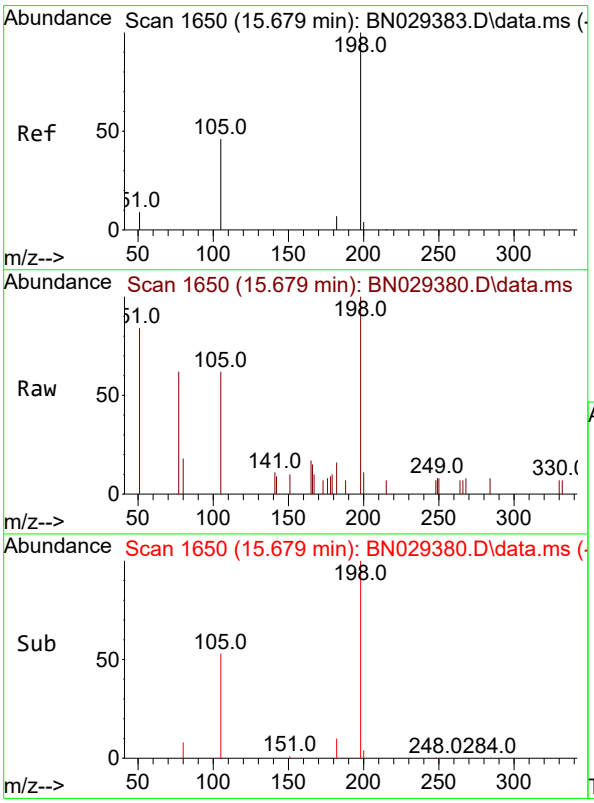
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 21611

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	8.8	13.2

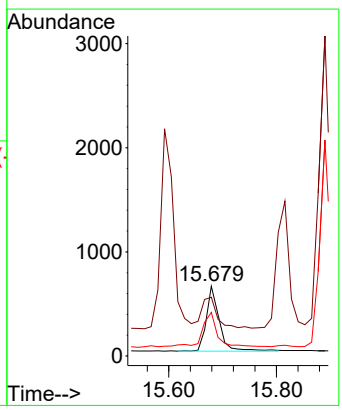


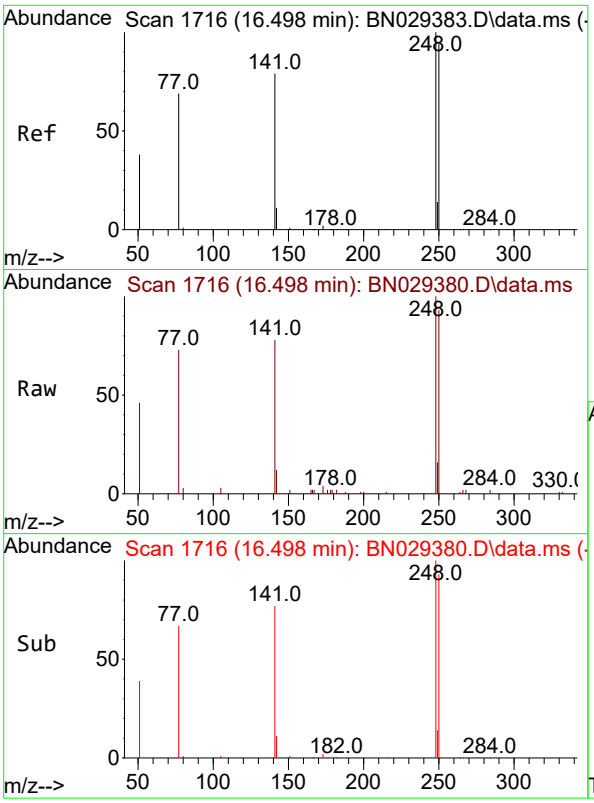


#20
4,6-Dinitro-2-methylphenol
Concen: 0.275 ng
RT: 15.679 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:198 Resp: 1032

Ion	Ratio	Lower	Upper
198	100		
51	84.1	68.3	102.5
105	62.3	48.8	73.2



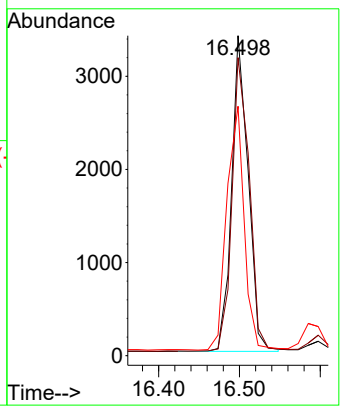


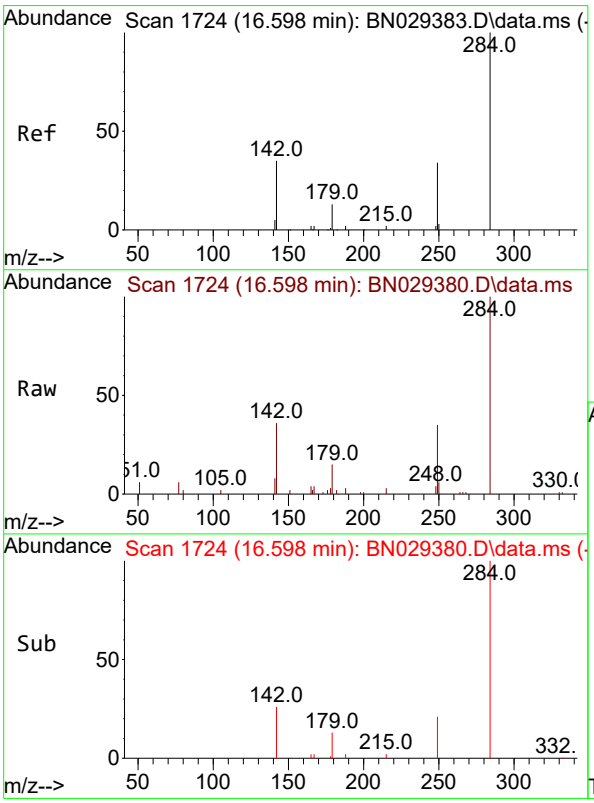
#21
4-Bromophenyl-phenylether
Concen: 0.327 ng
RT: 16.498 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 4800

Ion	Ratio	Lower	Upper
248	100		
250	93.1	75.6	113.4
141	78.0	64.0	96.0

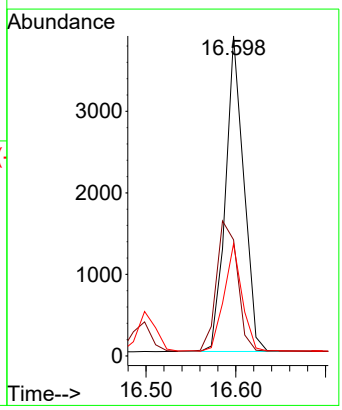


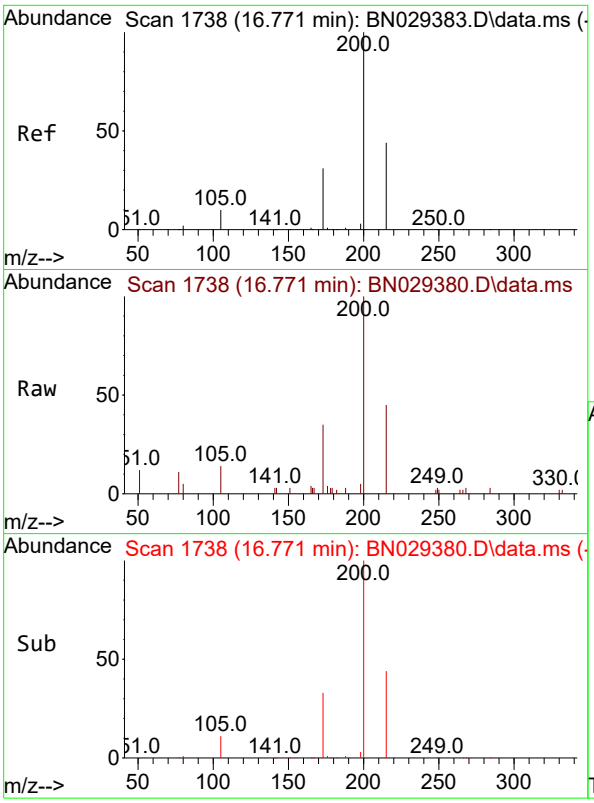


#22
Hexachlorobenzene
Concen: 0.325 ng
RT: 16.598 min Scan# 1724
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:284 Resp: 5476

Ion	Ratio	Lower	Upper
284	100		
142	47.4	37.8	56.8
249	33.7	26.7	40.1



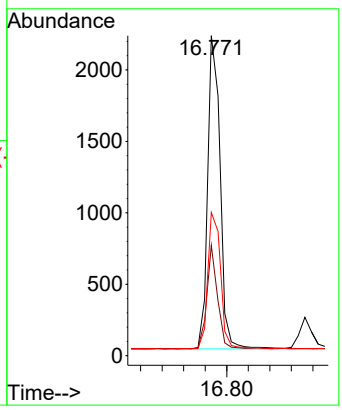


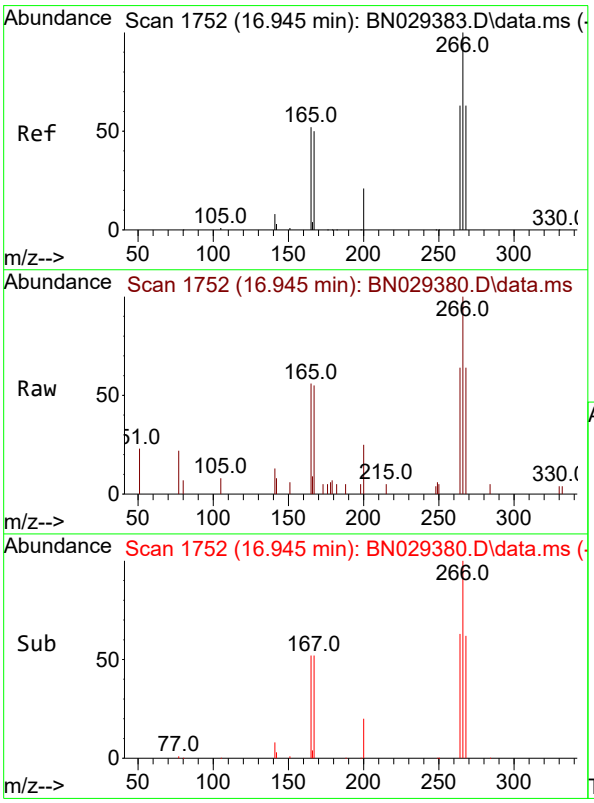
#23
Atrazine
Concen: 0.319 ng
RT: 16.771 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 3511

Ion	Ratio	Lower	Upper
200	100		
173	34.5	26.6	40.0
215	44.8	36.8	55.2

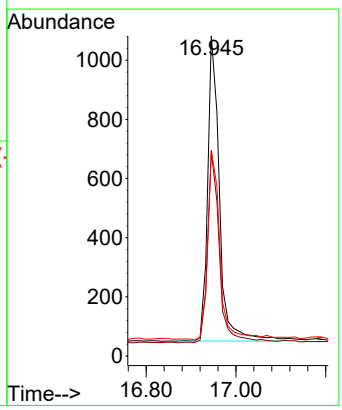


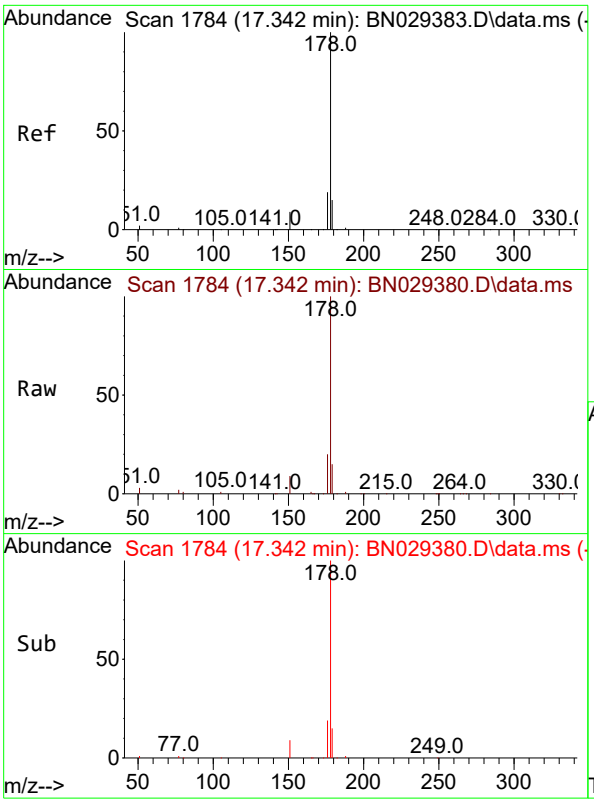


#24
Pentachlorophenol
Concen: 0.299 ng
RT: 16.945 min Scan# 1752
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:266 Resp: 1867

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.6	75.8
268	62.9	51.9	77.9



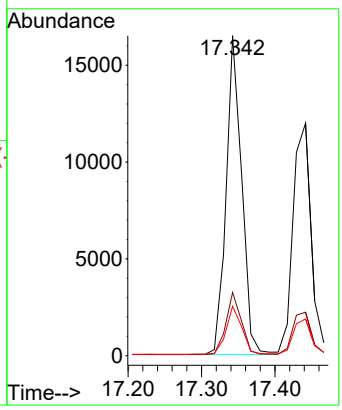


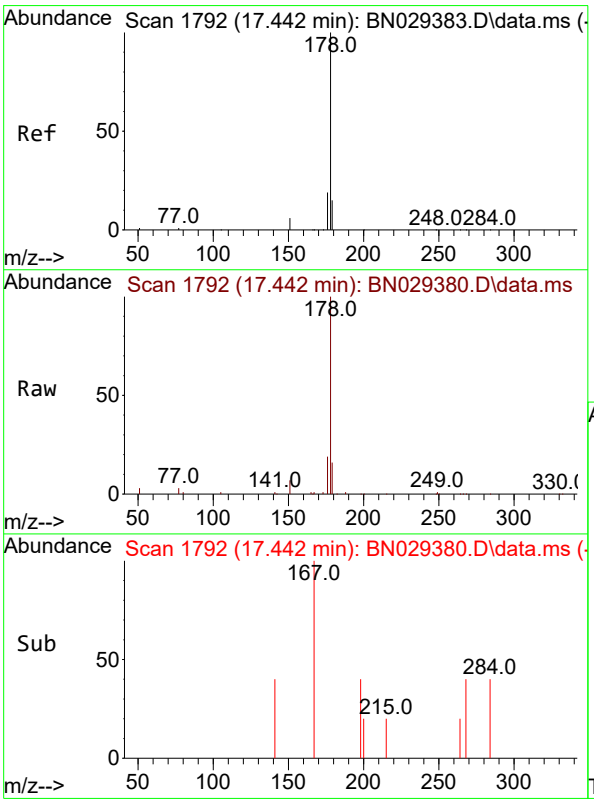
#25
Phenanthrene
Concen: 0.330 ng
RT: 17.342 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 24249

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.2	18.4

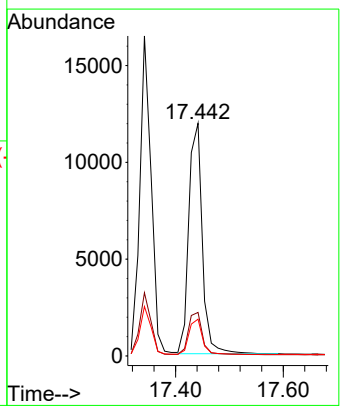


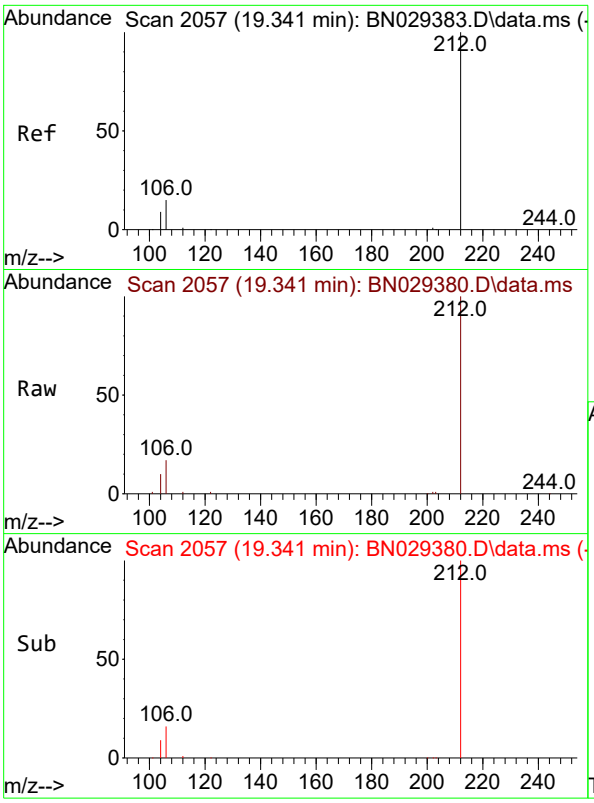


#26
Anthracene
Concen: 0.320 ng
RT: 17.442 min Scan# 1792
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:178 Resp: 20762

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.2	12.1	18.1



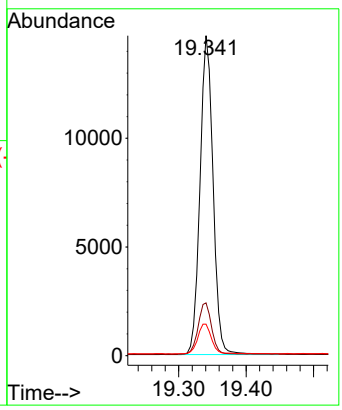


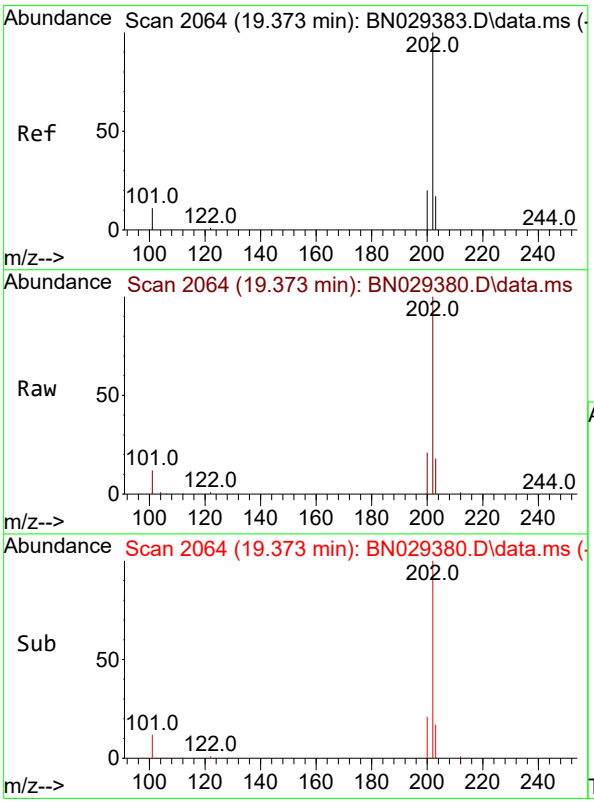
#27
Fluoranthene-d10
Concen: 0.317 ng
RT: 19.341 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 19730

Ion	Ratio	Lower	Upper
212	100		
106	16.6	12.8	19.2
104	10.0	7.7	11.5

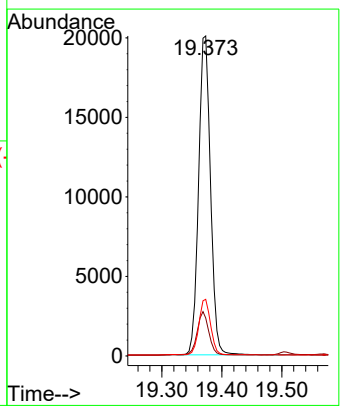


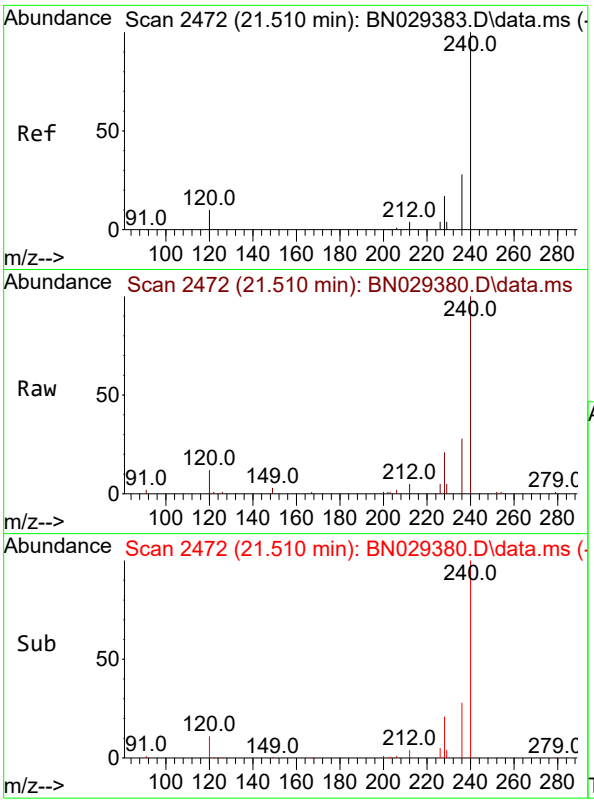


#28
Fluoranthene
Concen: 0.319 ng
RT: 19.373 min Scan# 2064
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:202 Resp: 27542

Ion	Ratio	Lower	Upper
202	100		
101	13.6	10.5	15.7
203	17.1	13.8	20.6



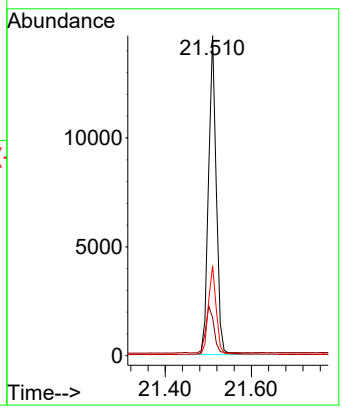


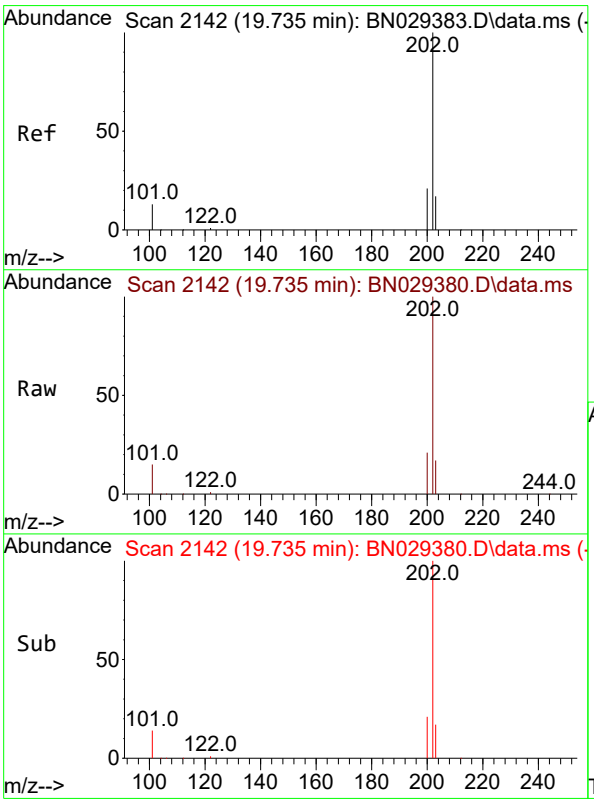
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.510 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 18367

Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.0	13.6
236	28.1	22.6	34.0

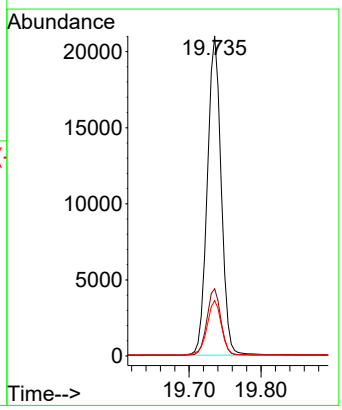


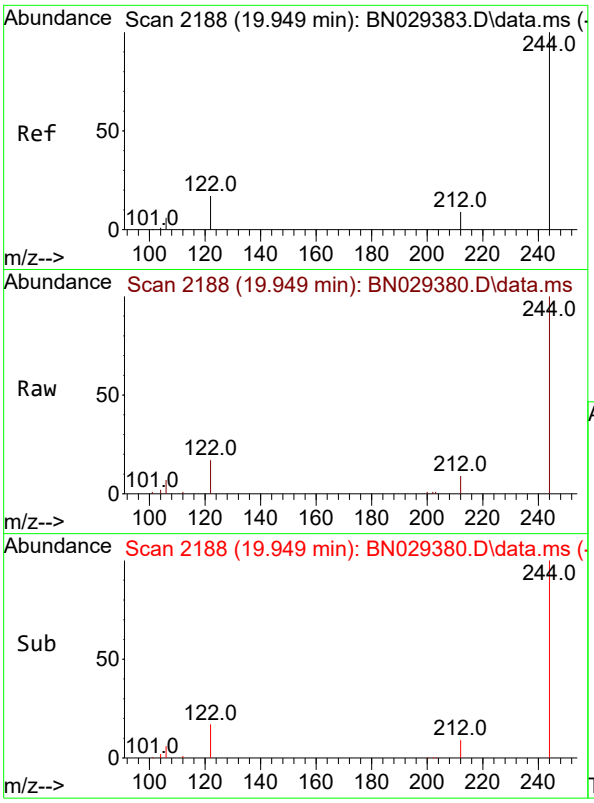


#30
Pyrene
Concen: 0.335 ng
RT: 19.735 min Scan# 2142
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:202 Resp: 27925

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.8	14.2	21.2



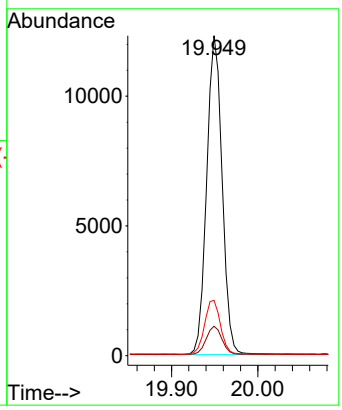


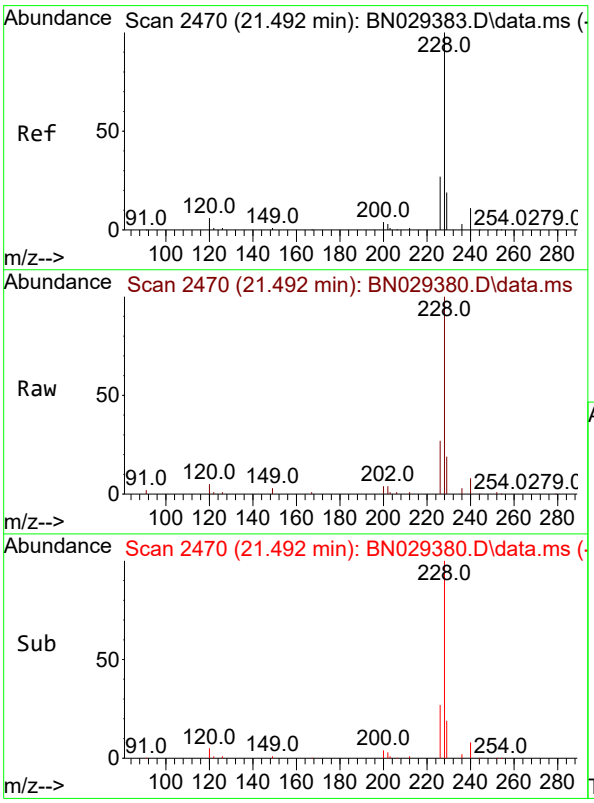
#31
Terphenyl-d14
Concen: 0.334 ng
RT: 19.949 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 15288

Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.6	11.4
122	17.3	13.8	20.8

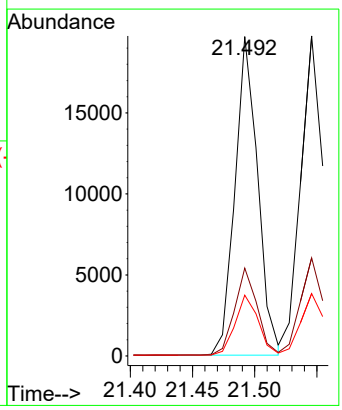


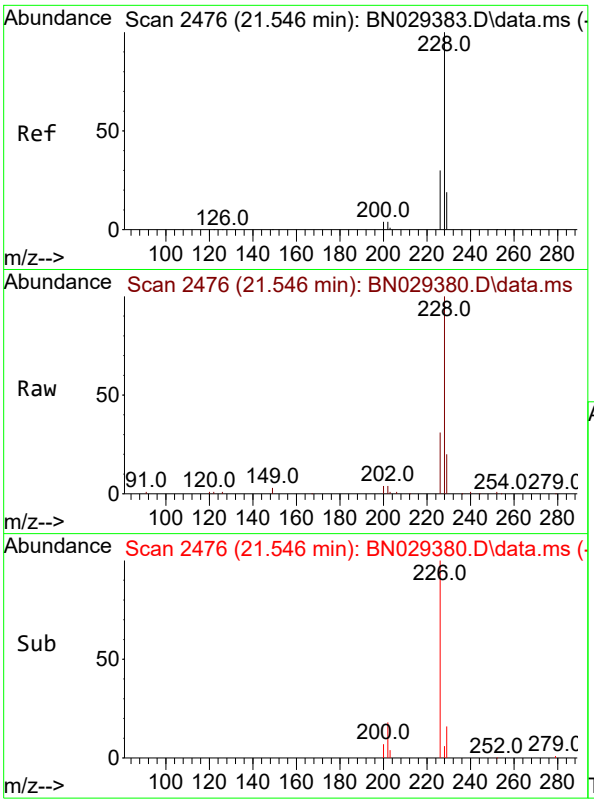


#32
Benzo(a)anthracene
Concen: 0.334 ng
RT: 21.492 min Scan# 2470
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:228 Resp: 24938

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.8	32.8
229	19.0	15.3	22.9



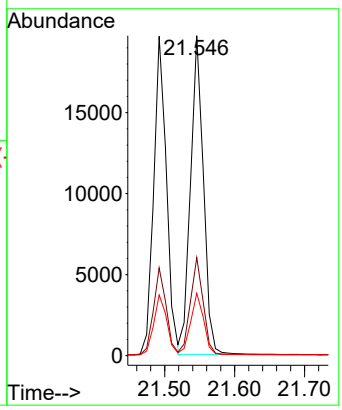


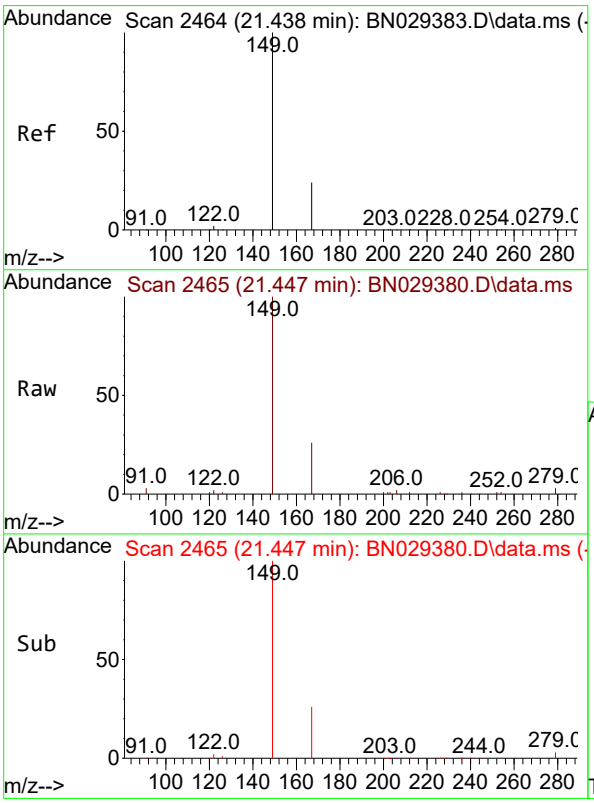
#33
Chrysene
Concen: 0.325 ng
RT: 21.546 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 25283

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.2	36.2
229	19.5	15.8	23.8

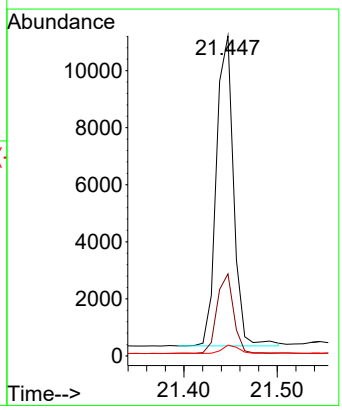


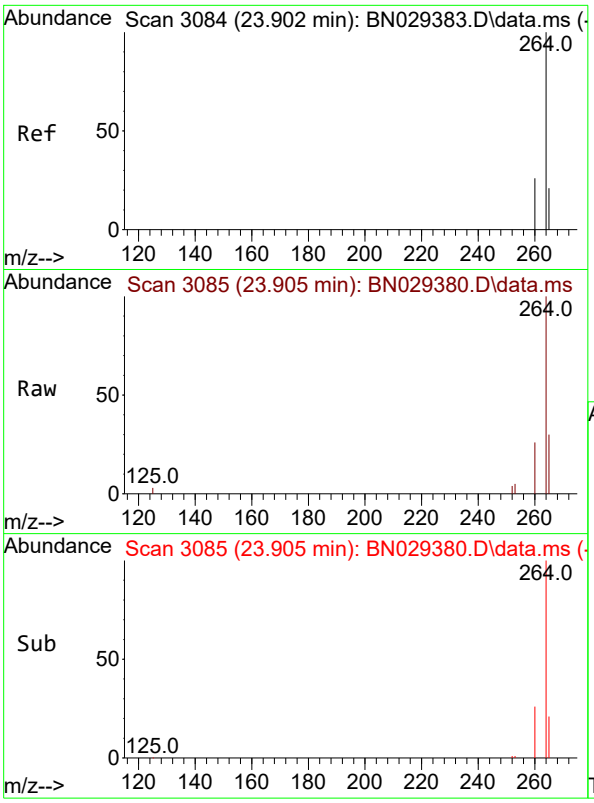


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.303 ng
RT: 21.447 min Scan# 2465
Delta R.T. 0.009 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:149 Resp: 13904

Ion	Ratio	Lower	Upper
149	100		
167	25.1	19.5	29.3
279	2.6	2.1	3.1



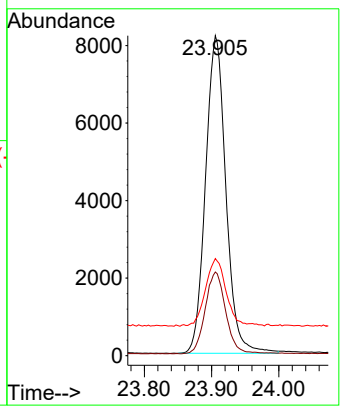


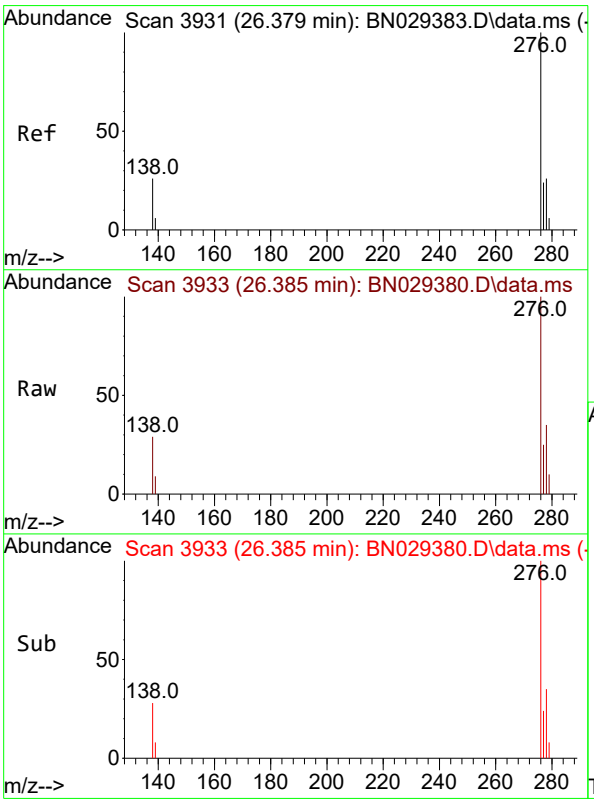
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.905 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 17235

Ion	Ratio	Lower	Upper
264	100		
260	26.1	21.3	31.9
265	30.4	25.7	38.5

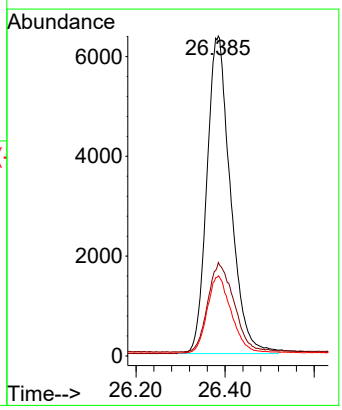


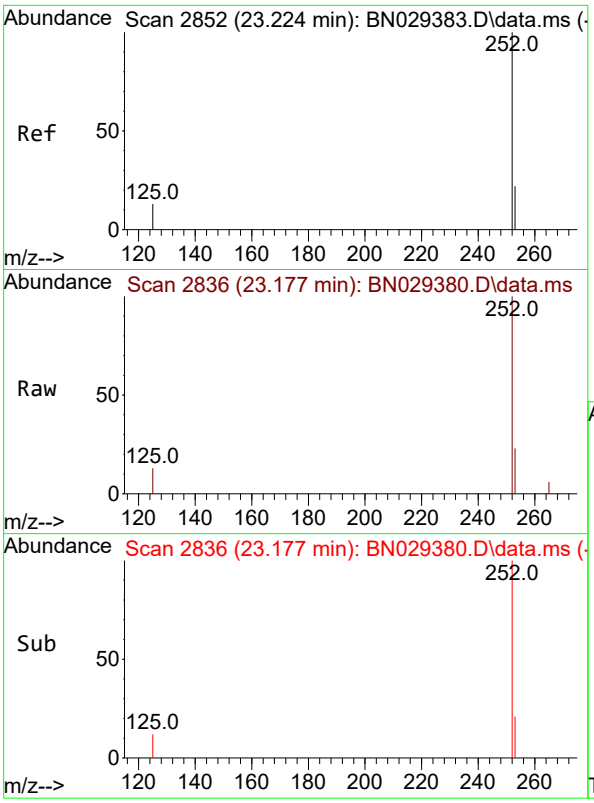


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.314 ng
RT: 26.385 min Scan# 3933
Delta R.T. 0.006 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:276 Resp: 23395

Ion	Ratio	Lower	Upper
276	100		
138	30.9	24.8	37.2
277	24.9	19.9	29.9



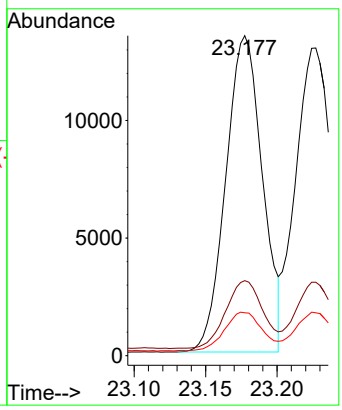


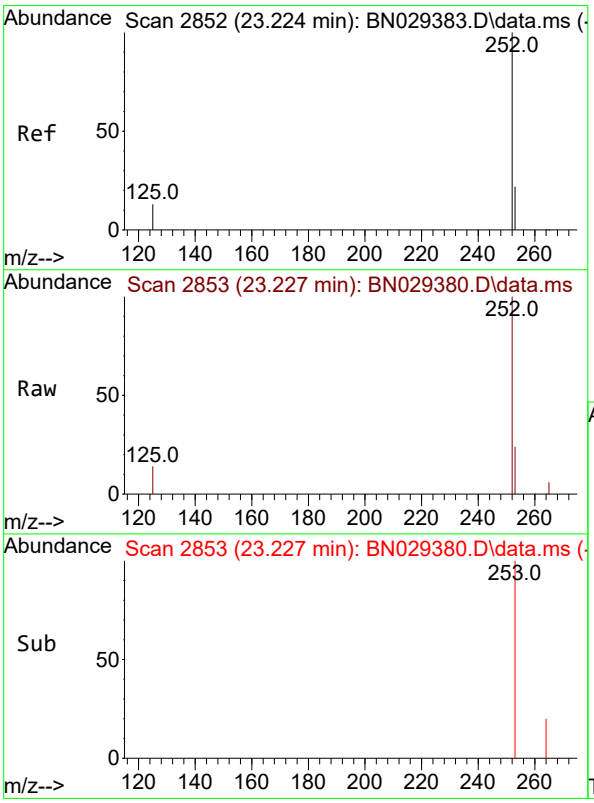
#37
Benzo(b)fluoranthene
Concen: 0.329 ng
RT: 23.177 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 23975

Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.9	28.3
125	13.4	10.7	16.1

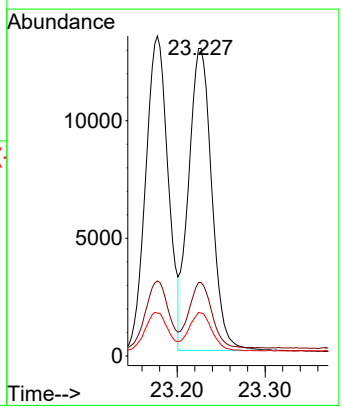


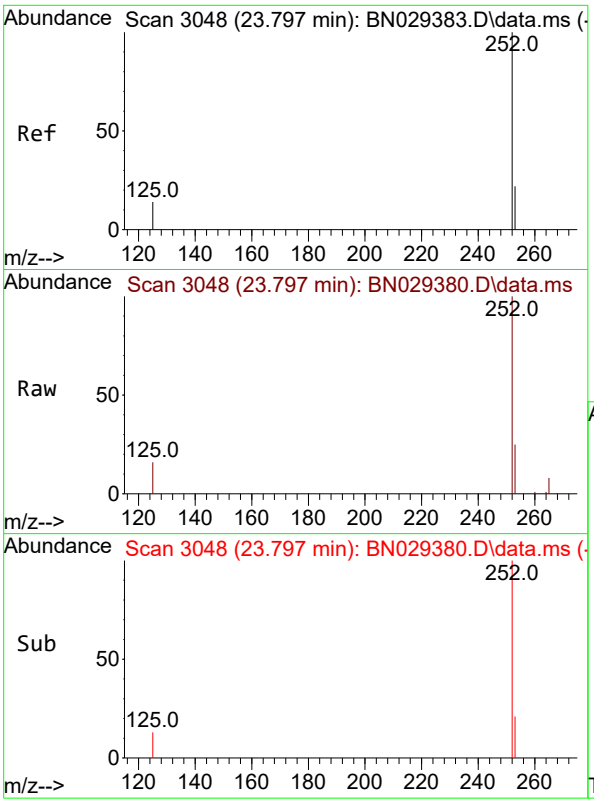


#38
Benzo(k)fluoranthene
Concen: 0.332 ng
RT: 23.227 min Scan# 2853
Delta R.T. 0.003 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:252 Resp: 23585

Ion	Ratio	Lower	Upper
252	100		
253	23.8	19.8	29.6
125	13.9	11.4	17.2



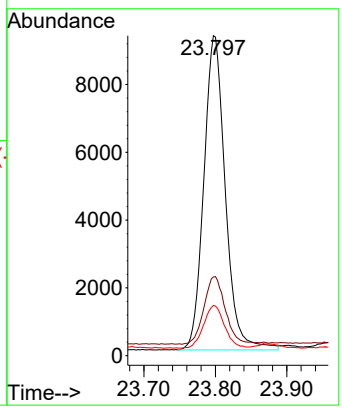


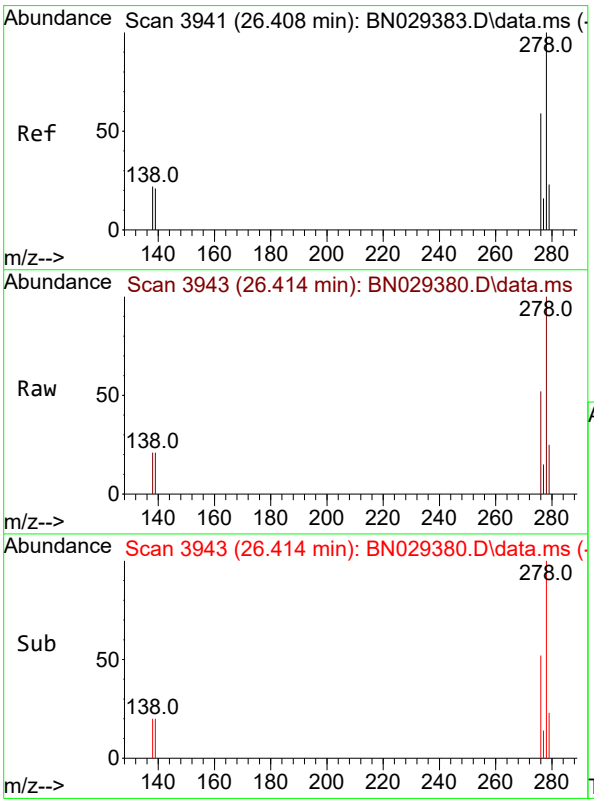
#39
Benzo(a)pyrene
Concen: 0.330 ng
RT: 23.797 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 19384

Ion	Ratio	Lower	Upper
252	100		
253	24.6	20.6	30.8
125	15.7	13.0	19.6

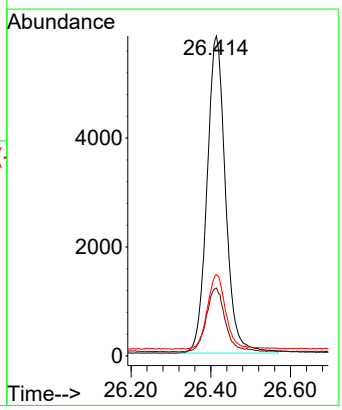


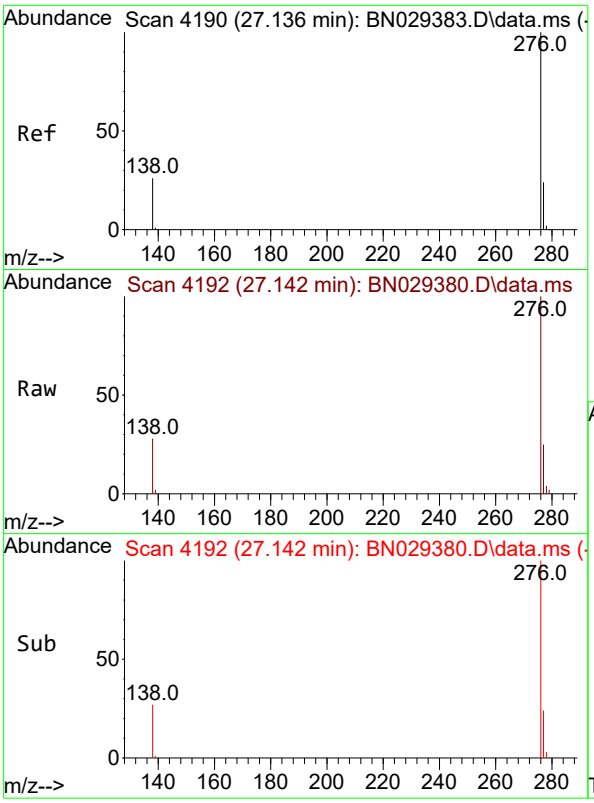


#40
Dibenzo(a,h)anthracene
Concen: 0.313 ng
RT: 26.414 min Scan# 3943
Delta R.T. 0.006 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Tgt Ion:278 Resp: 18796

Ion	Ratio	Lower	Upper
278	100		
139	21.3	17.8	26.6
279	25.4	21.0	31.4





#41
Benzo(g,h,i)perylene
Concen: 0.312 ng
RT: 27.142 min Scan# 4
Delta R.T. 0.006 min
Lab File: BN029380.D
Acq: 25 Jan 2024 10:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 20349

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.7	29.5
138	28.4	22.0	33.0