Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
Data File : BN028212.D
Acq On : 11 Oct 2023 00:41
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Oct 11 02:35:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 10 00:42:22 2023
Response via : Initial Calibration

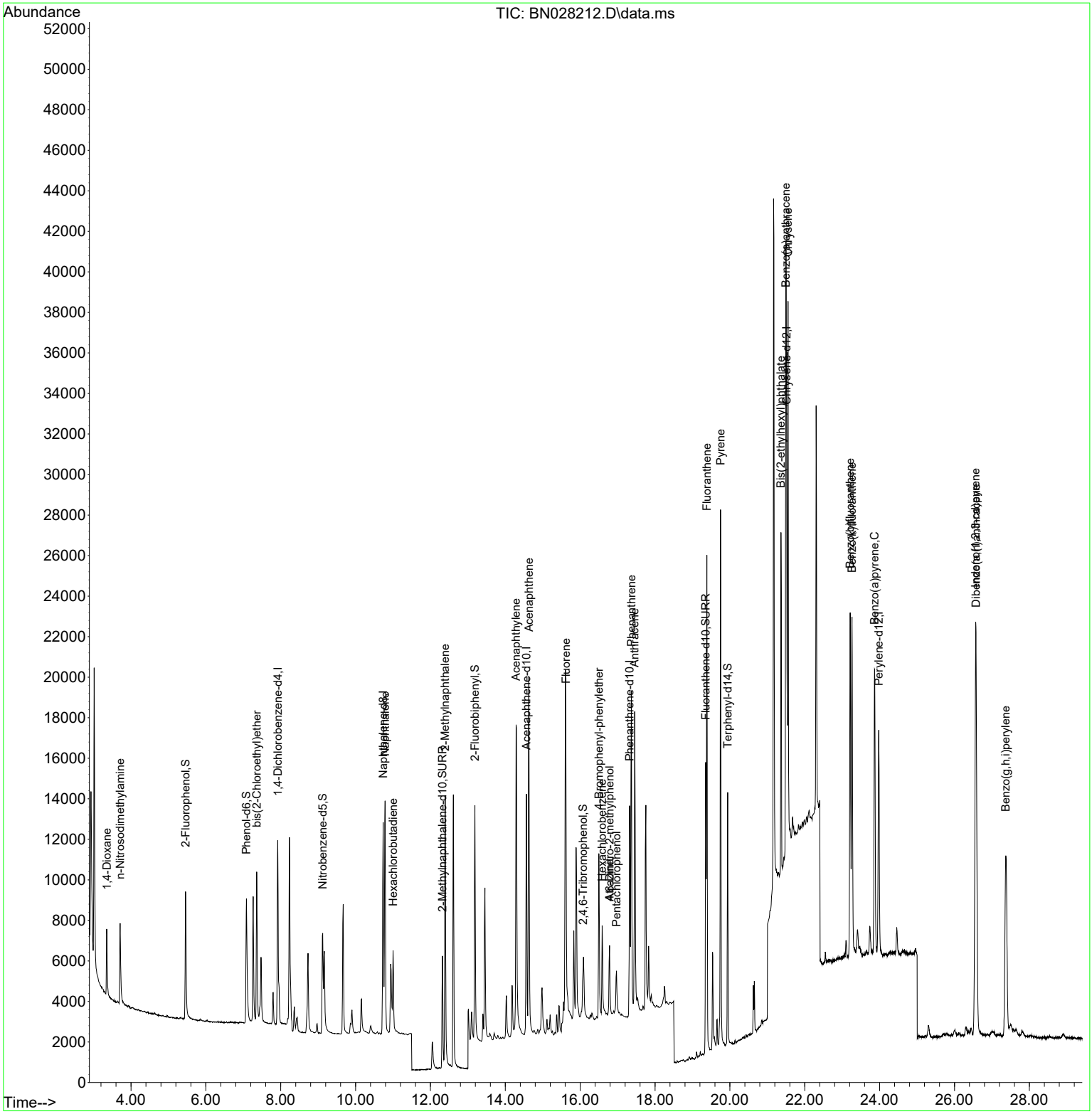
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.922	152	4677	0.400	ng		0.00
7) Naphthalene-d8	10.735	136	14293	0.400	ng		0.00
13) Acenaphthene-d10	14.566	164	7659	0.400	ng		0.00
19) Phenanthrene-d10	17.319	188	15771	0.400	ng		0.00
29) Chrysene-d12	21.515	240	14558	0.400	ng		0.00
35) Perylene-d12	23.975	264	16635	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.459	112	5966	0.428	ng		0.00
5) Phenol-d6	7.084	99	7299	0.415	ng		0.00
8) Nitrobenzene-d5	9.123	82	5255	0.432	ng		0.00
11) 2-Methylnaphthalene-d10	12.321	152	8618	0.407	ng		0.00
14) 2,4,6-Tribromophenol	16.077	330	1320	0.376	ng		0.00
15) 2-Fluorobiphenyl	13.187	172	11499	0.417	ng		0.00
27) Fluoranthene-d10	19.356	212	16568	0.418	ng		0.00
31) Terphenyl-d14	19.941	244	13066	0.385	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.357	88	2530	0.482	ng		98
3) n-Nitrosodimethylamine	3.711	42	2648	0.441	ng	#	98
6) bis(2-Chloroethyl)ether	7.358	93	5927	0.418	ng		96
9) Naphthalene	10.789	128	16238	0.440	ng		100
10) Hexachlorobutadiene	11.002	225	2856	0.436	ng	#	100
12) 2-Methylnaphthalene	12.392	142	10776	0.417	ng		97
16) Acenaphthylene	14.288	152	24005	0.708	ng		99
17) Acenaphthene	14.630	154	10352	0.479	ng		97
18) Fluorene	15.618	166	13888	0.494	ng		91
20) 4,6-Dinitro-2-methylph...	16.785	198	77	0.367	ng	#	62
21) 4-Bromophenyl-phenylether	16.499	248	3406	0.414	ng		96
22) Hexachlorobenzene	16.586	284	3593	0.417	ng		99
23) Atrazine	16.785	200	2808	0.391	ng		95
24) Pentachlorophenol	16.971	266	1431	0.352	ng		95
25) Phenanthrene	17.368	178	18545	0.436	ng		99
26) Anthracene	17.455	178	17917	0.446	ng		99
28) Fluoranthene	19.384	202	22459	0.458	ng		100
30) Pyrene	19.751	202	24098	0.451	ng		97
32) Benzo(a)anthracene	21.497	228	23143	0.467	ng		95
33) Chrysene	21.551	228	22357	0.468	ng		95
34) Bis(2-ethylhexyl)phtha...	21.363	149	15542	0.477	ng		100
36) Indeno(1,2,3-cd)pyrene	26.566	276	26194	0.468	ng		99
37) Benzo(b)fluoranthene	23.212	252	23061	0.429	ng		97
38) Benzo(k)fluoranthene	23.262	252	22492	0.413	ng		97
39) Benzo(a)pyrene	23.864	252	22280	0.439	ng		97
40) Dibenzo(a,h)anthracene	26.577	278	21138	0.462	ng		97
41) Benzo(g,h,i)perylene	27.370	276	22351	0.476	ng		98

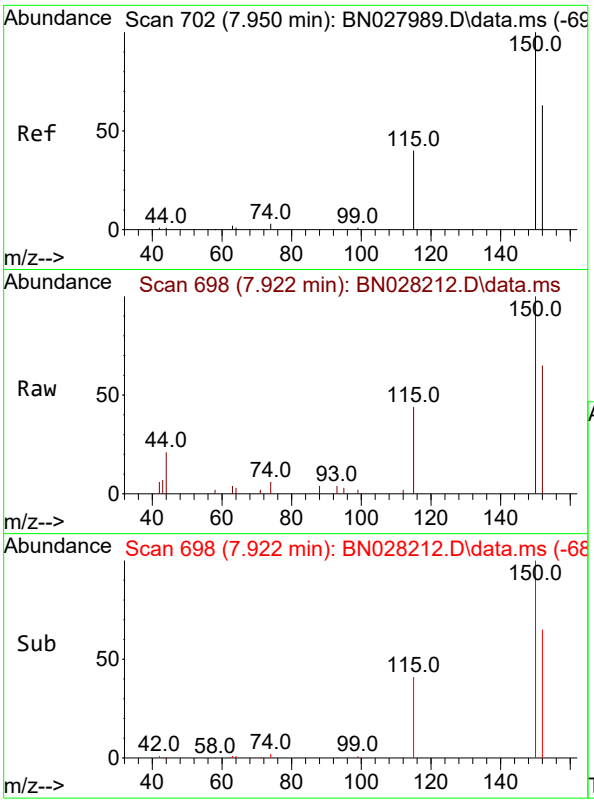
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
Data File : BN028212.D
Acq On : 11 Oct 2023 00:41
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Oct 11 02:35:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 10 00:42:22 2023
Response via : Initial Calibration



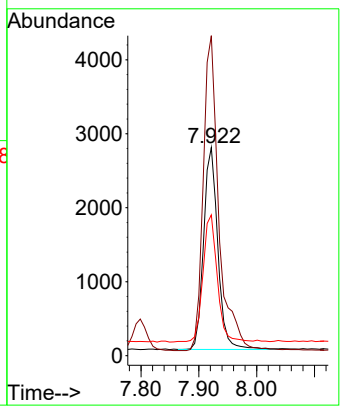


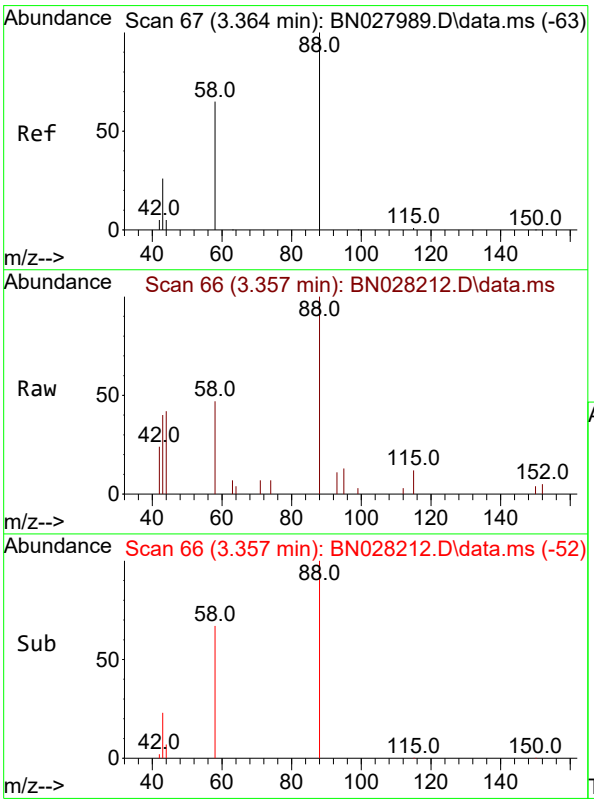
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4677

Ion	Ratio	Lower	Upper
152	100		
150	153.7	125.6	188.4
115	67.6	54.8	82.2

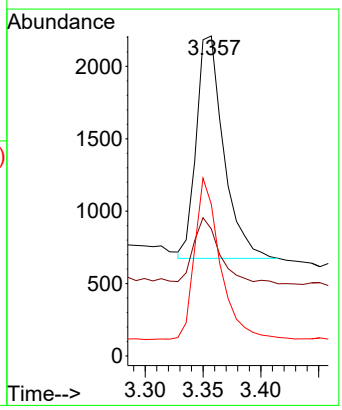


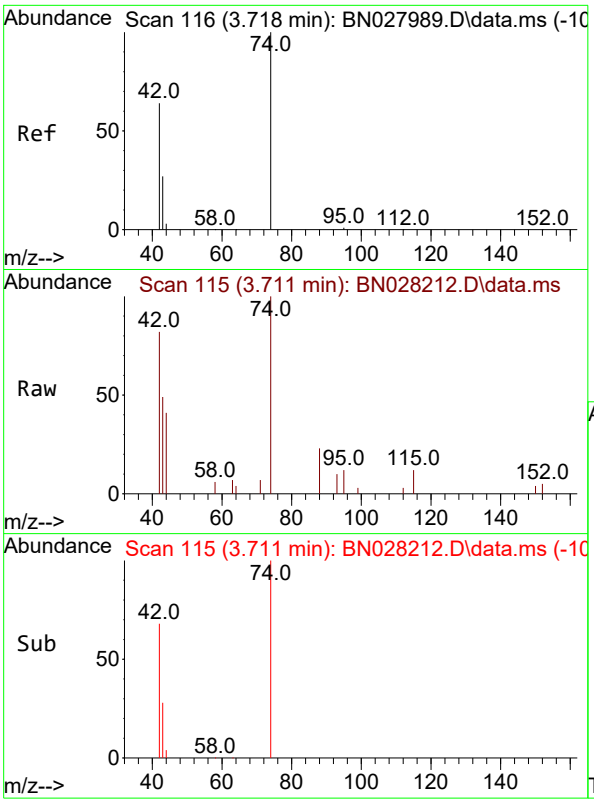


#2
1,4-Dioxane
Concen: 0.482 ng
RT: 3.357 min Scan# 66
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion: 88 Resp: 2530

Ion	Ratio	Lower	Upper
88	100		
43	28.6	24.6	36.8
58	67.9	53.8	80.6



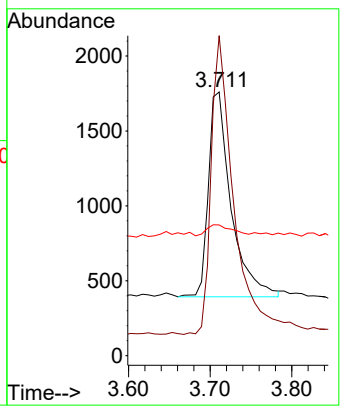


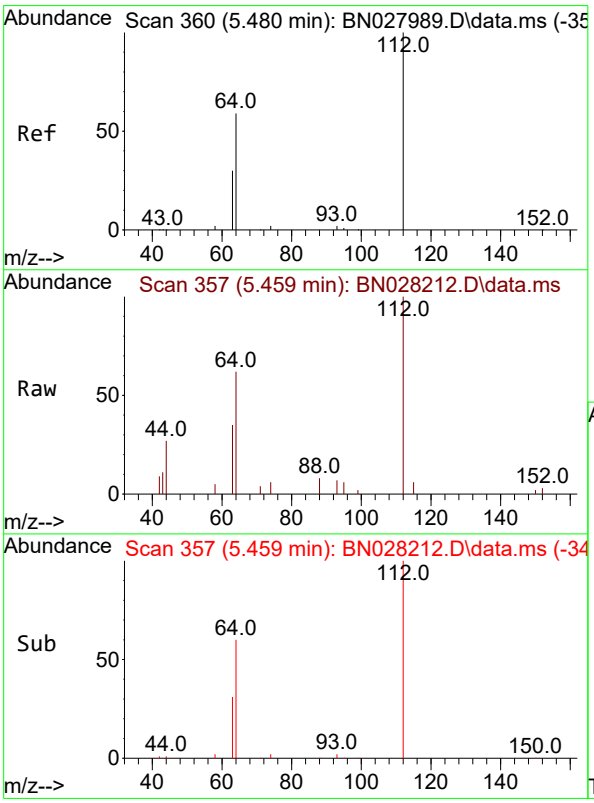
#3
n-Nitrosodimethylamine
Concen: 0.441 ng
RT: 3.711 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2648

Ion	Ratio	Lower	Upper
42	100		
74	142.9	115.9	173.9
44	6.0	8.0	12.0#

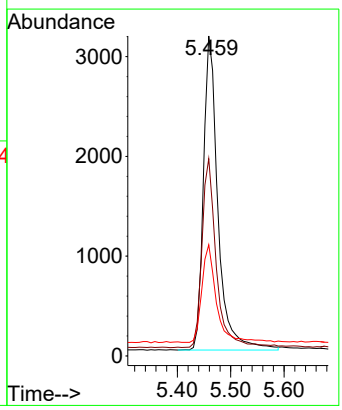


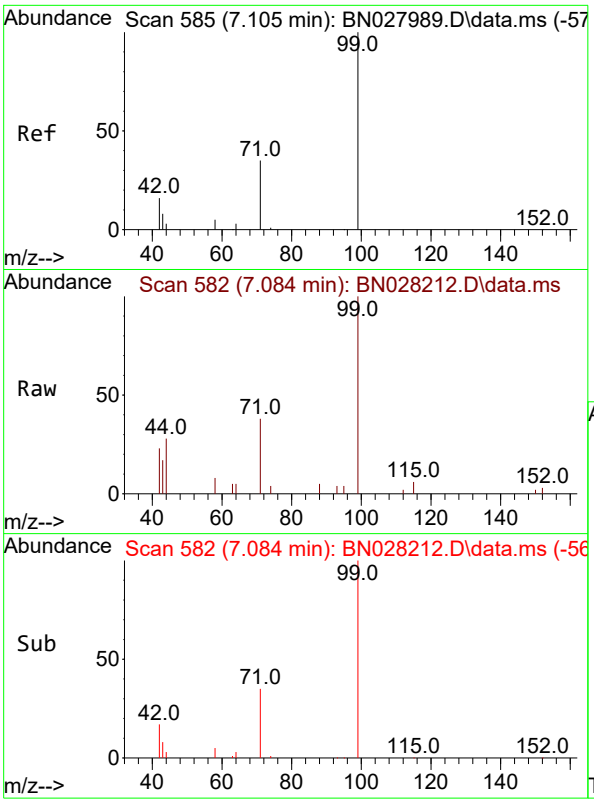


#4
2-Fluorophenol
Concen: 0.428 ng
RT: 5.459 min Scan# 357
Delta R.T. -0.007 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:112 Resp: 5966

Ion	Ratio	Lower	Upper
112	100		
64	60.0	45.0	67.6
63	31.1	23.4	35.0



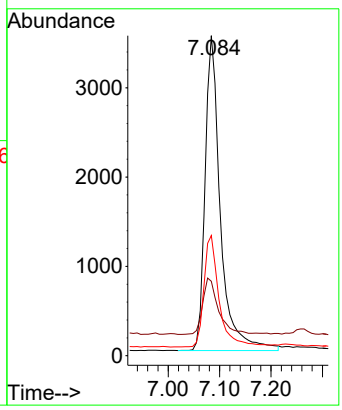


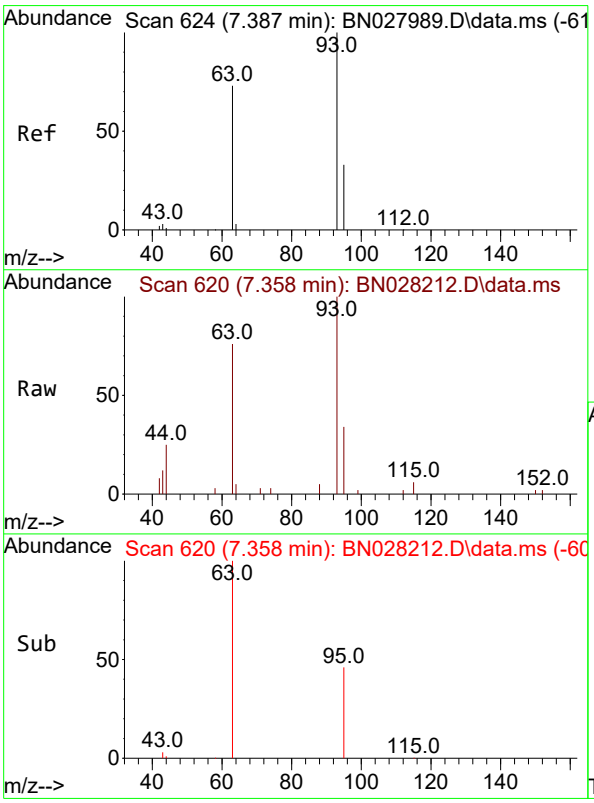
#5
Phenol-d6
Concen: 0.415 ng
RT: 7.084 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 7299

Ion	Ratio	Lower	Upper
99	100		
42	18.8	14.6	22.0
71	35.2	28.3	42.5

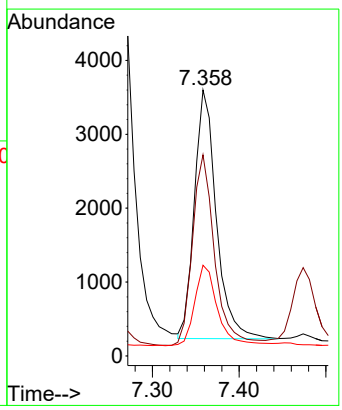


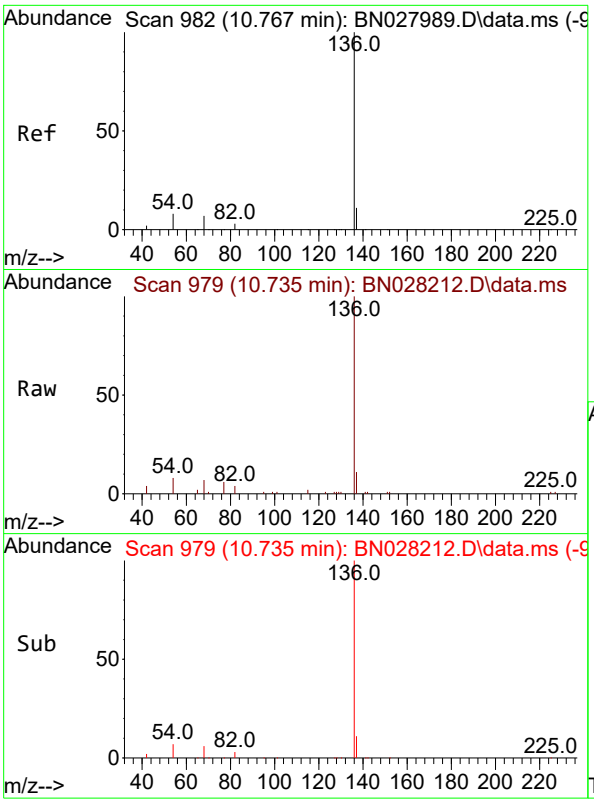


#6
bis(2-Chloroethyl)ether
Concen: 0.418 ng
RT: 7.358 min Scan# 620
Delta R.T. -0.007 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion: 93 Resp: 5927

Ion	Ratio	Lower	Upper
93	100		
63	77.5	58.8	88.2
95	33.7	26.6	39.8



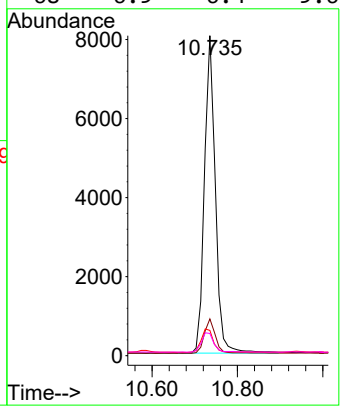


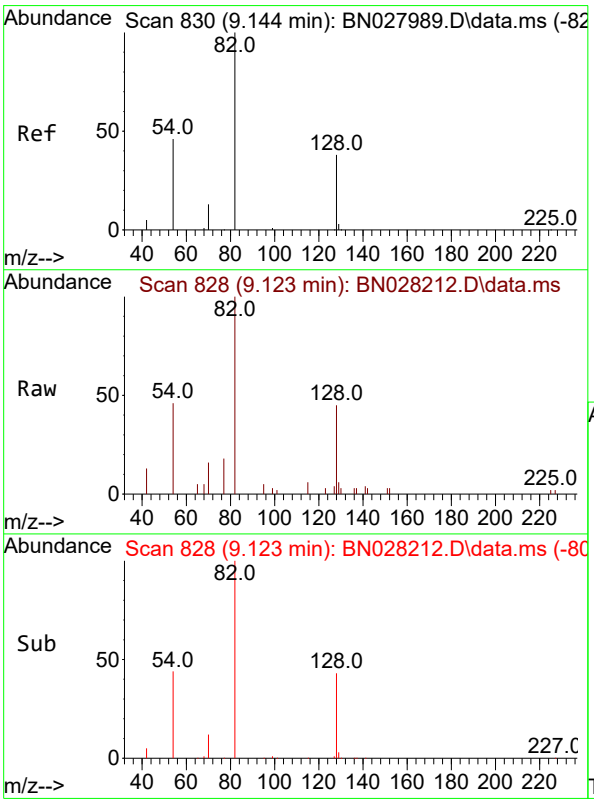
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 14293

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.4	14.0
54	7.9	7.0	10.6
68	6.9	6.4	9.6

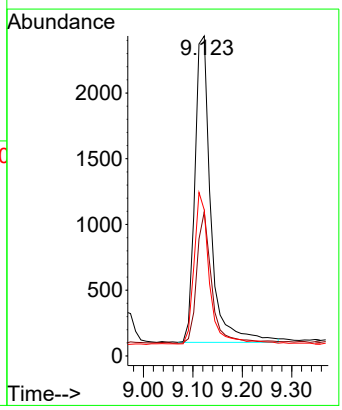


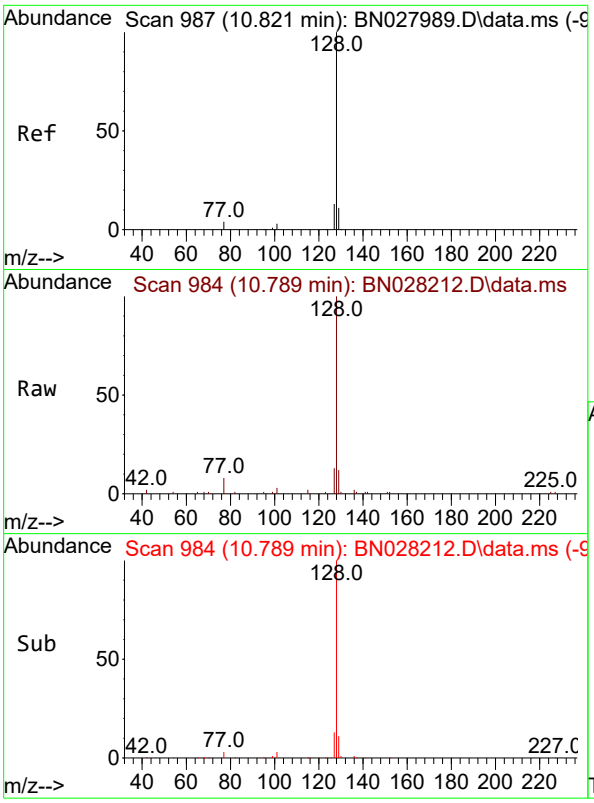


#8
Nitrobenzene-d5
Concen: 0.432 ng
RT: 9.123 min Scan# 828
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion: 82 Resp: 5255

Ion	Ratio	Lower	Upper
82	100		
128	45.1	32.7	49.1
54	45.6	38.7	58.1



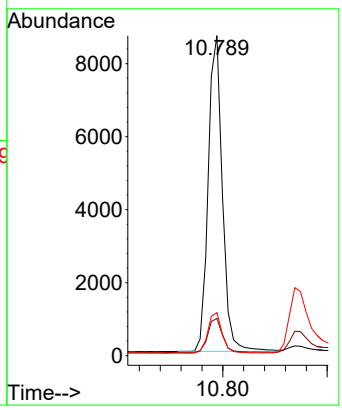


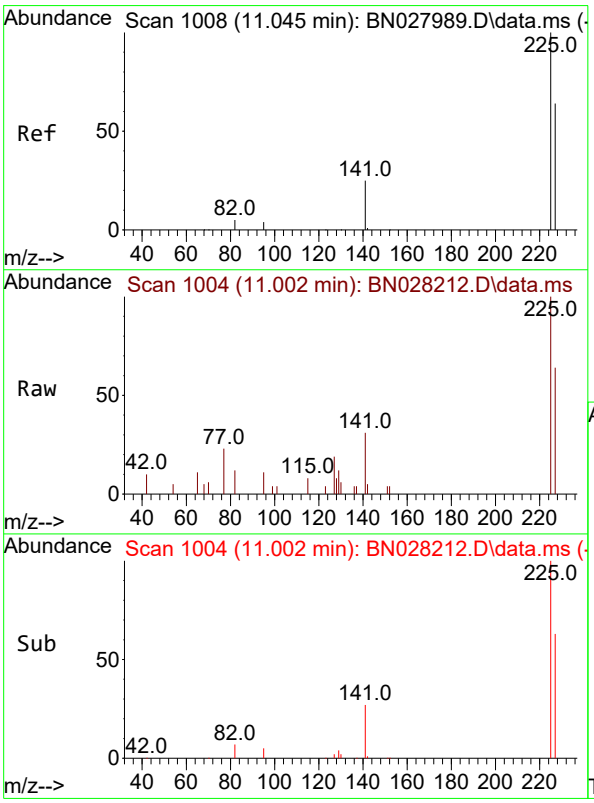
#9
Naphthalene
Concen: 0.440 ng
RT: 10.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 16238

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.4	14.2
127	13.5	10.9	16.3

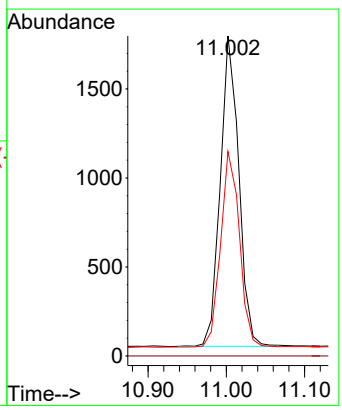


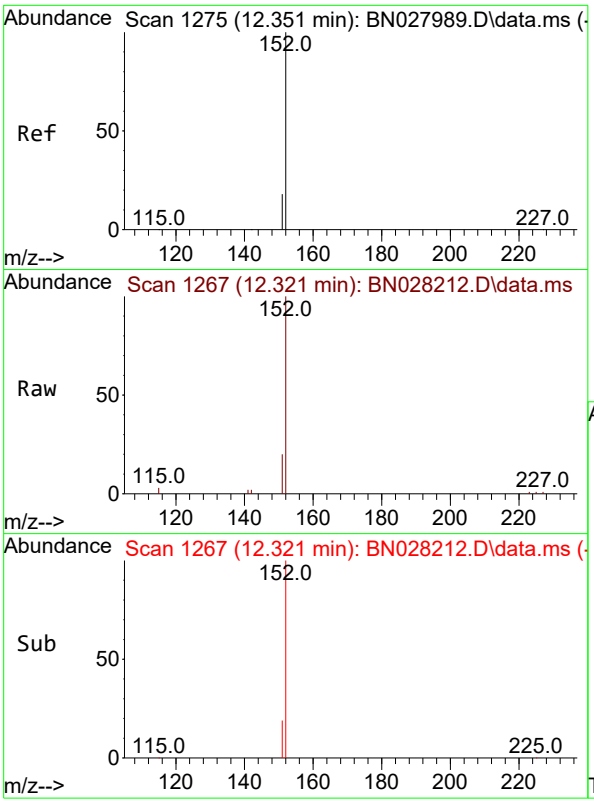


#10
Hexachlorobutadiene
Concen: 0.436 ng
RT: 11.002 min Scan# 1004
Delta R.T. -0.011 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:225 Resp: 2856

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.3	76.9



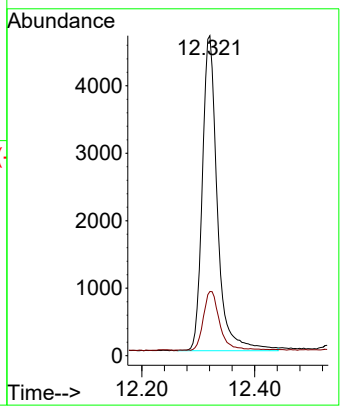


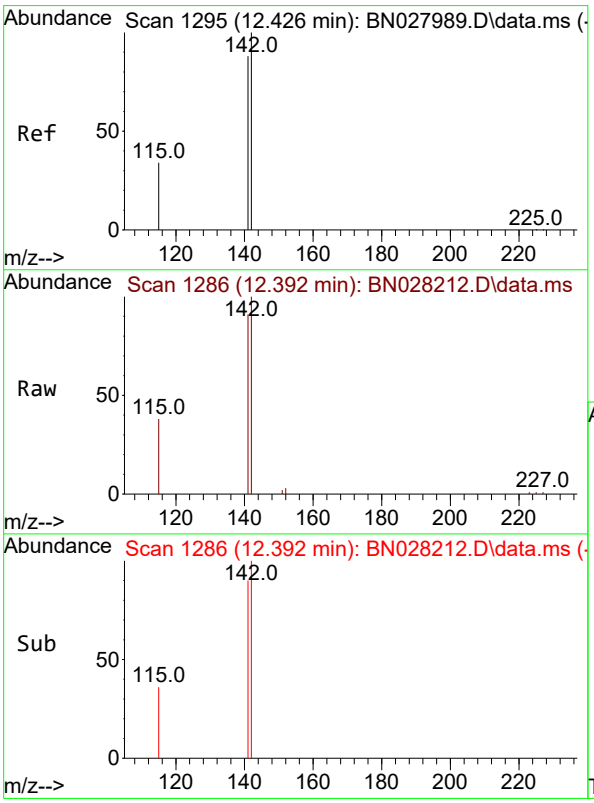
#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.321 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 8618

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.5	24.7

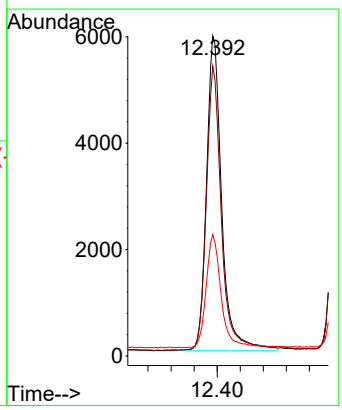


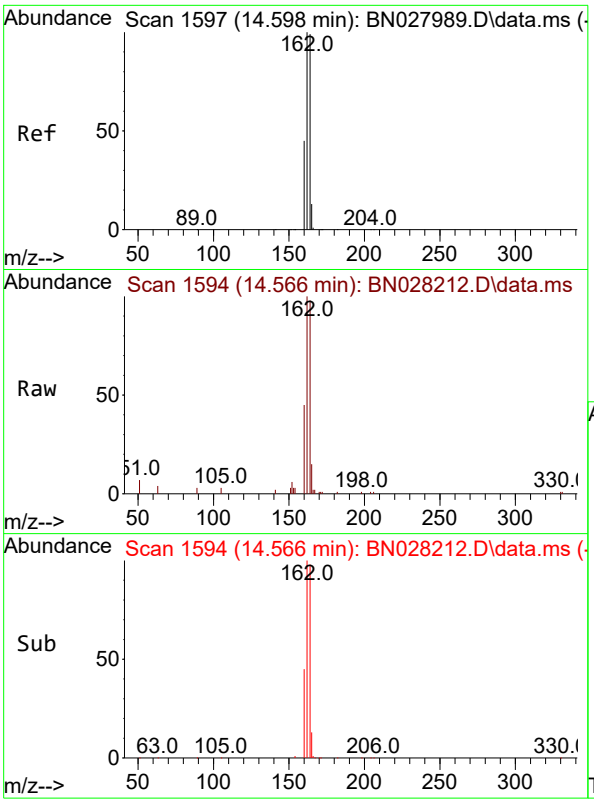


#12
2-Methylnaphthalene
Concen: 0.417 ng
RT: 12.392 min Scan# 1286
Delta R.T. -0.008 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:142 Resp: 10776

Ion	Ratio	Lower	Upper
142	100		
141	90.5	70.7	106.1
115	38.0	28.6	42.8



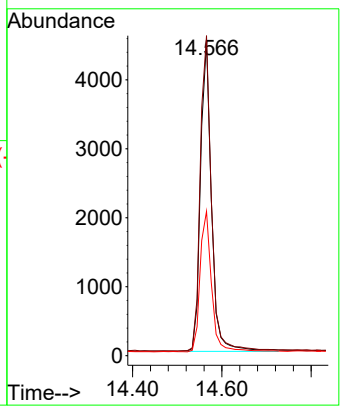


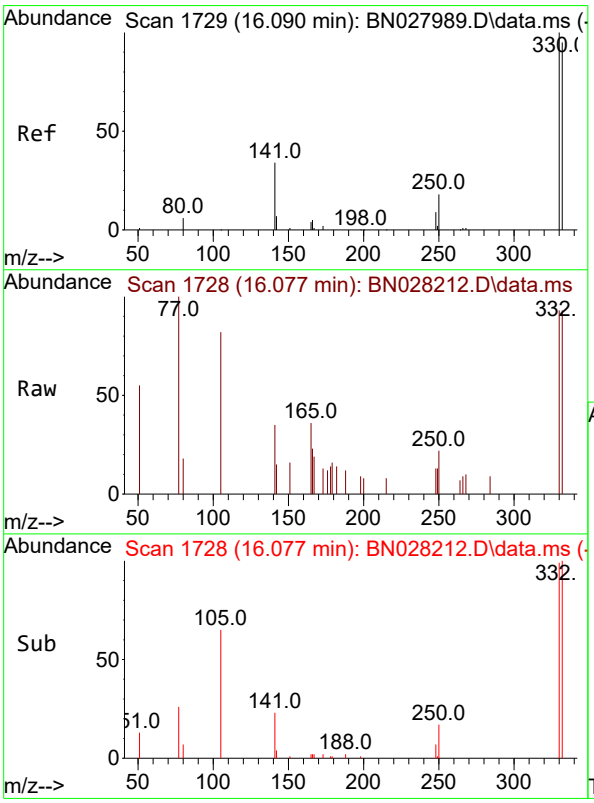
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.566 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 7659

Ion	Ratio	Lower	Upper
164	100		
162	101.8	80.8	121.2
160	45.9	36.4	54.6

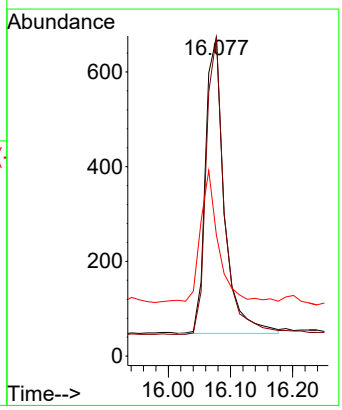


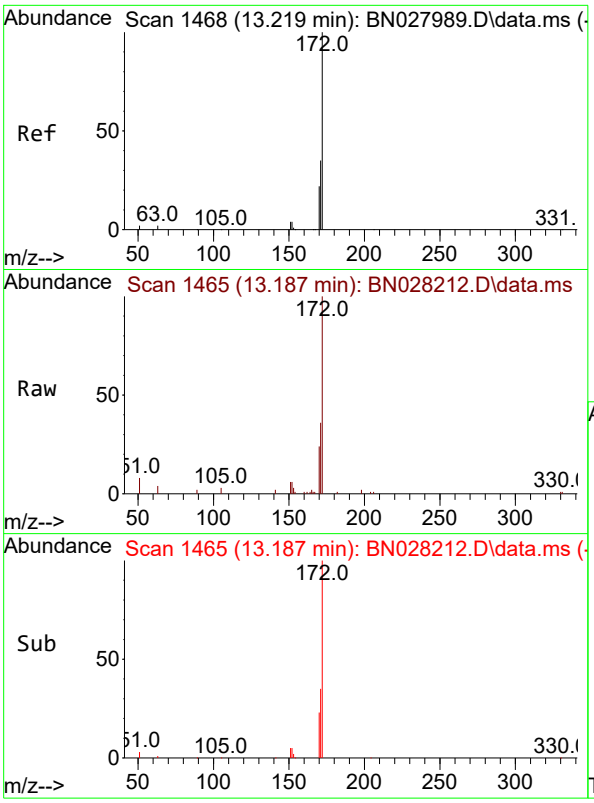


#14
2,4,6-Tribromophenol
Concen: 0.376 ng
RT: 16.077 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:330 Resp: 1320

Ion	Ratio	Lower	Upper
330	100		
332	97.0	78.1	117.1
141	40.8	33.4	50.2



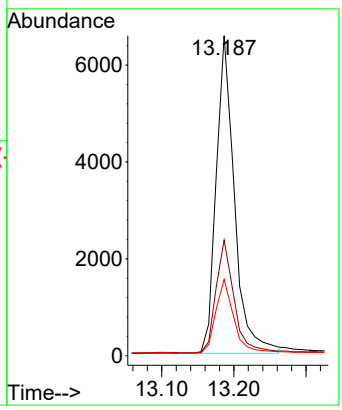


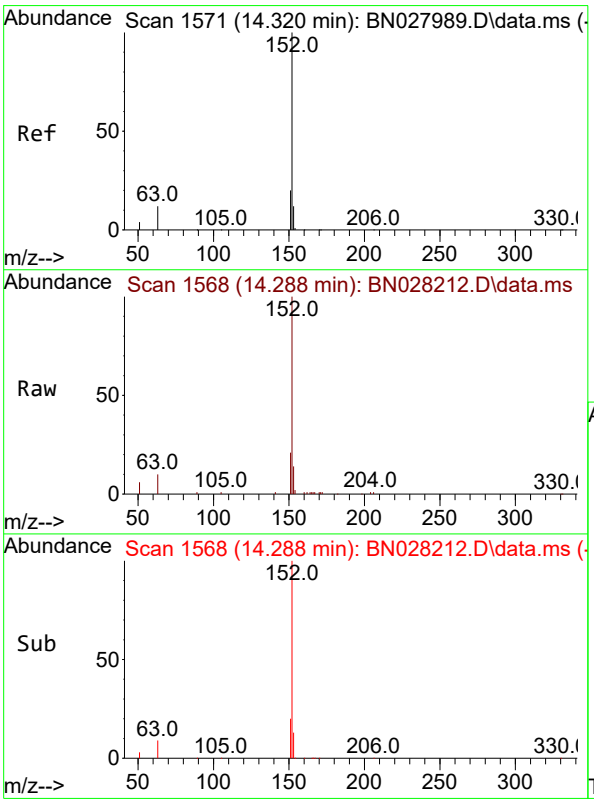
#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 13.187 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 11499

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.1	42.1
170	23.9	18.4	27.6

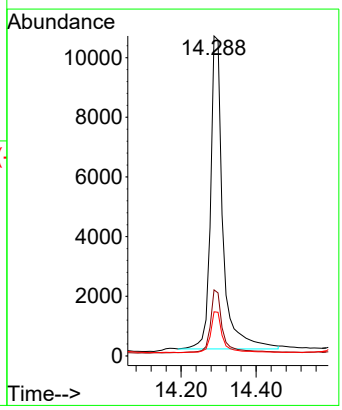


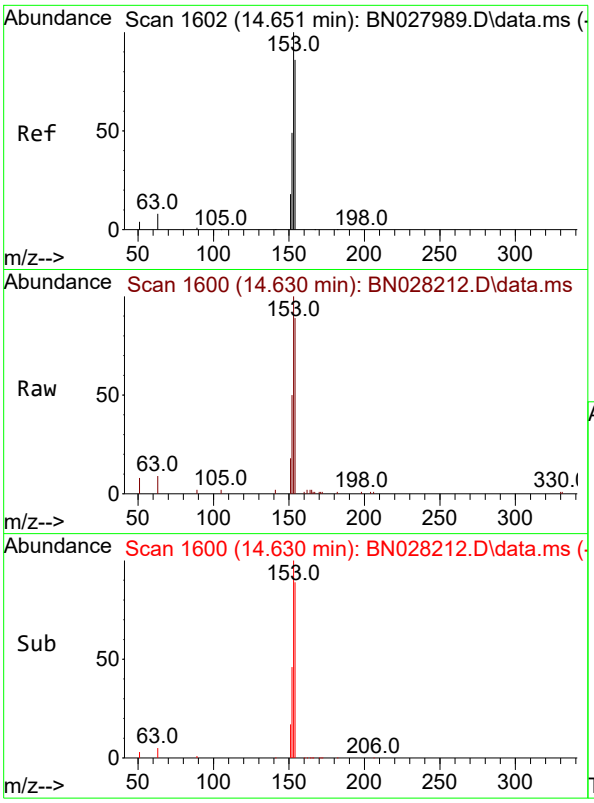


#16
Acenaphthylene
Concen: 0.708 ng
RT: 14.288 min Scan# 1568
Delta R.T. -0.011 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:152 Resp: 24005

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.8	23.6
153	12.9	10.2	15.4



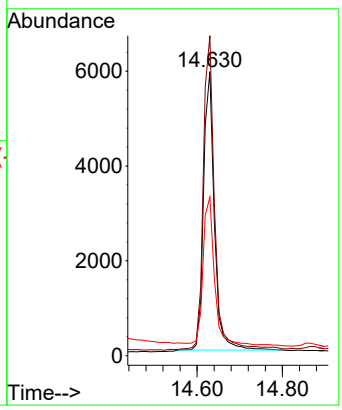


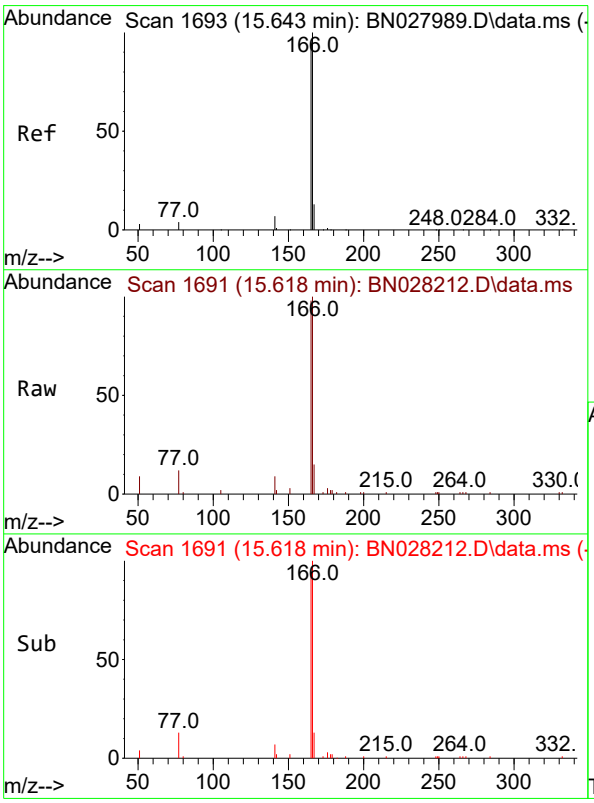
#17
Acenaphthene
Concen: 0.479 ng
RT: 14.630 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 10352

Ion	Ratio	Lower	Upper
154	100		
153	116.9	90.8	136.2
152	56.0	43.9	65.9

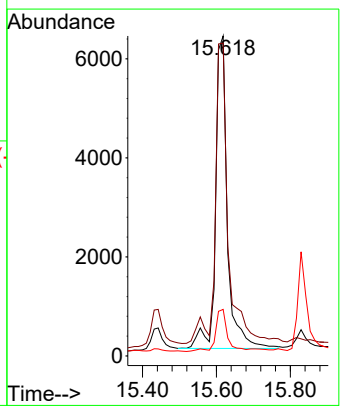


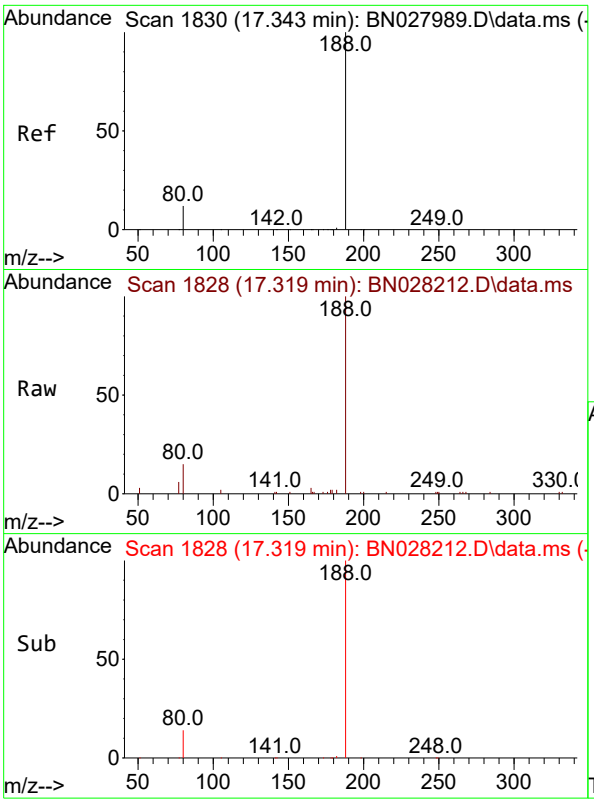


#18
Fluorene
Concen: 0.494 ng
RT: 15.618 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:166 Resp: 13888

Ion	Ratio	Lower	Upper
166	100		
165	107.7	77.8	116.8
167	13.5	10.7	16.1



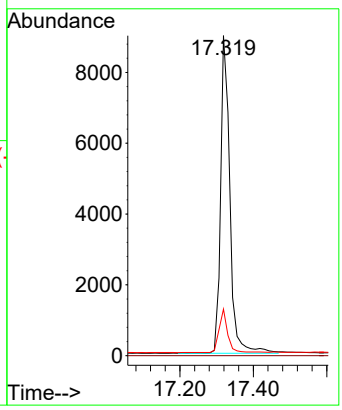


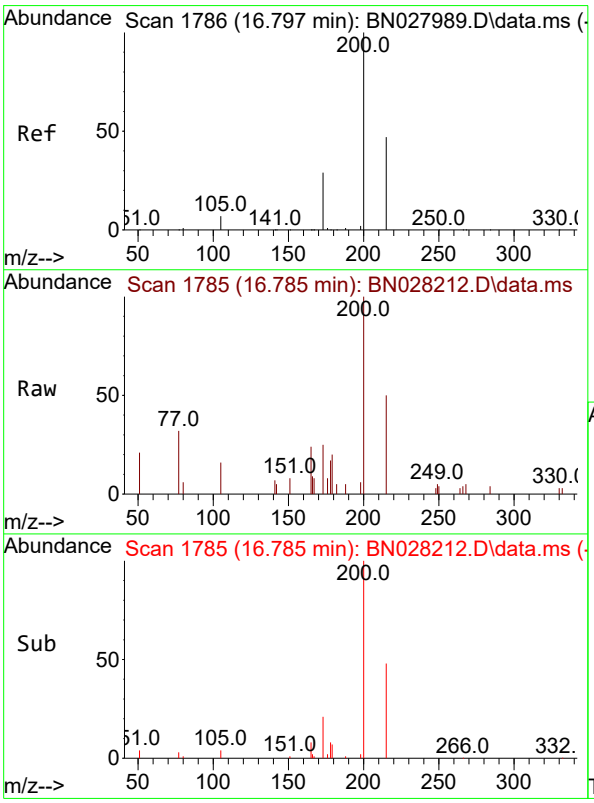
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 15771

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.6	10.2	15.4

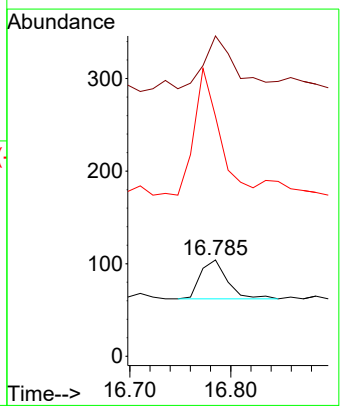


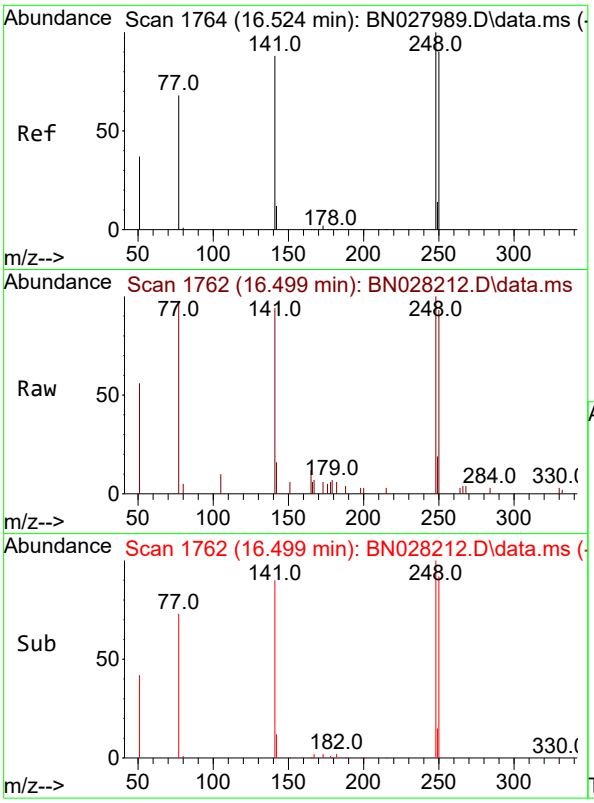


#20
4,6-Dinitro-2-methylphenol
Concen: 0.367 ng
RT: 16.785 min Scan# 1785
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:198 Resp: 77

Ion	Ratio	Lower	Upper
198	100		
51	332.7	180.7	271.1#
105	249.0	222.2	333.2



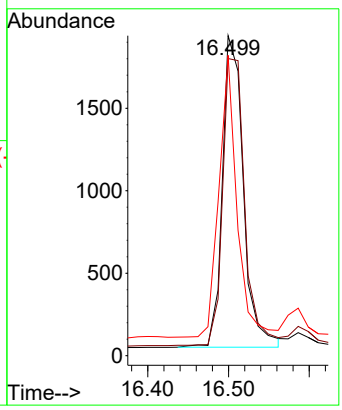


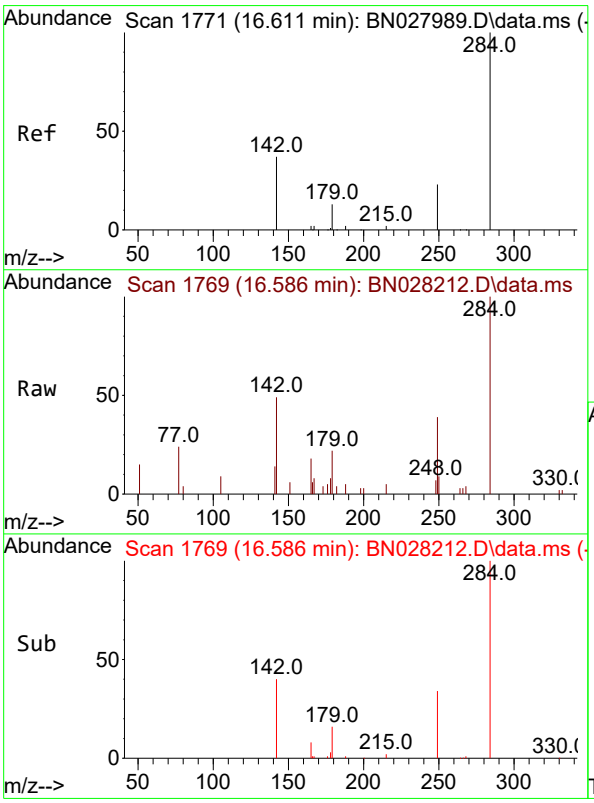
#21
4-Bromophenyl-phenylether
Concen: 0.414 ng
RT: 16.499 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 3406

Ion	Ratio	Lower	Upper
248	100		
250	92.8	72.3	108.5
141	93.9	71.8	107.6

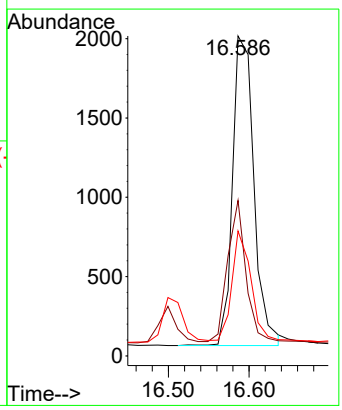


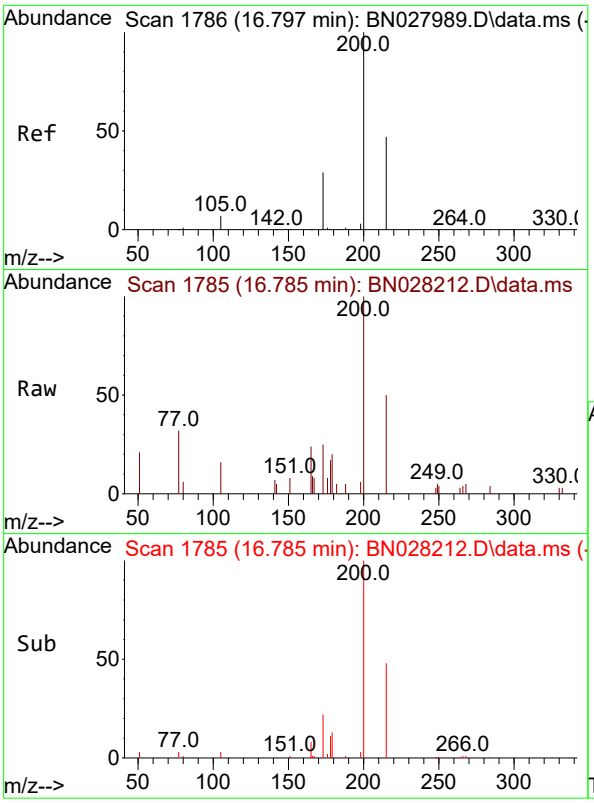


#22
Hexachlorobenzene
Concen: 0.417 ng
RT: 16.586 min Scan# 1769
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:284 Resp: 3593

Ion	Ratio	Lower	Upper
284	100		
142	38.7	29.9	44.9
249	31.1	25.0	37.4



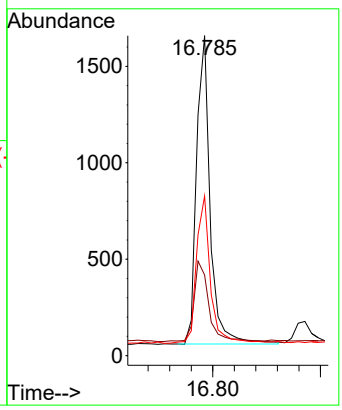


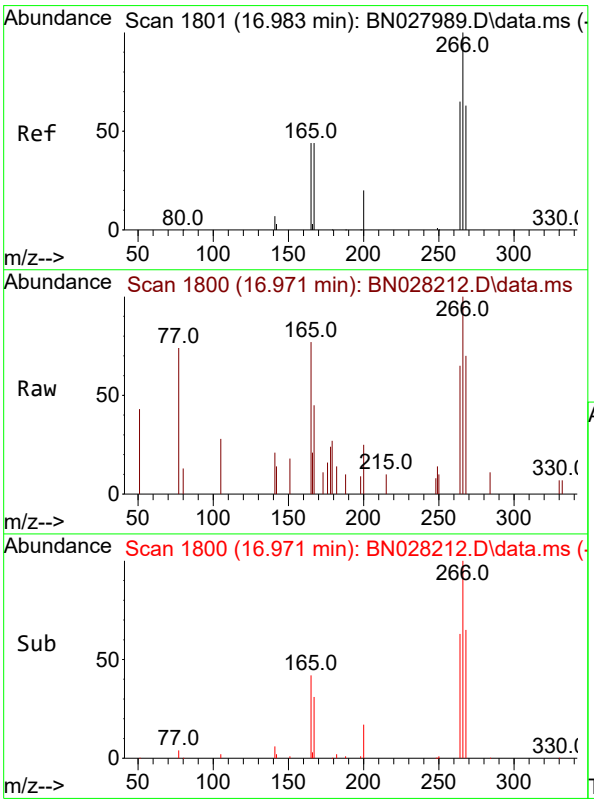
#23
Atrazine
Concen: 0.391 ng
RT: 16.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 2808

Ion	Ratio	Lower	Upper
200	100		
173	25.2	24.7	37.1
215	49.9	39.0	58.6

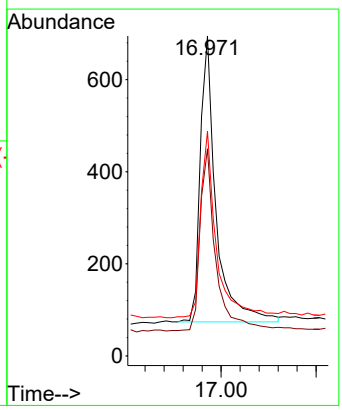


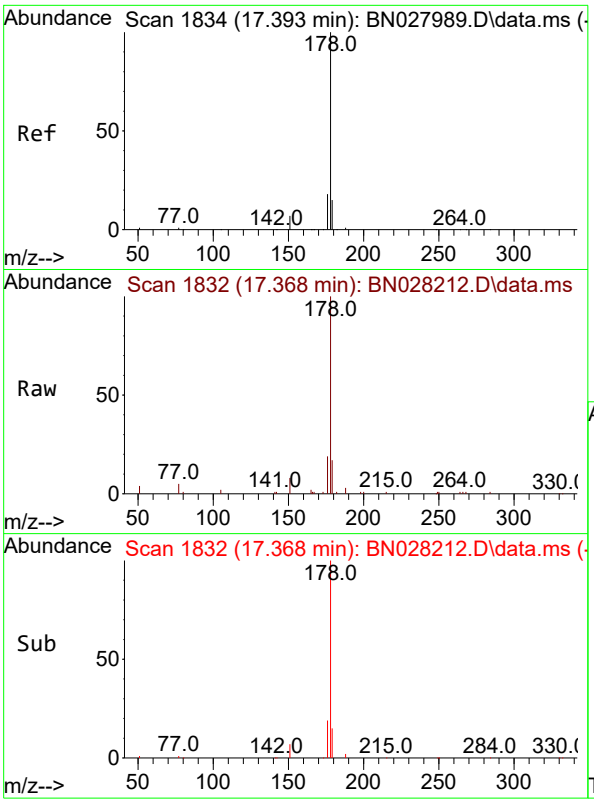


#24
Pentachlorophenol
Concen: 0.352 ng
RT: 16.971 min Scan# 1800
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:266 Resp: 1431

Ion	Ratio	Lower	Upper
266	100		
264	62.9	52.7	79.1
268	65.8	56.2	84.2



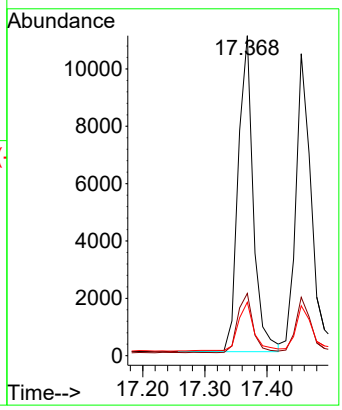


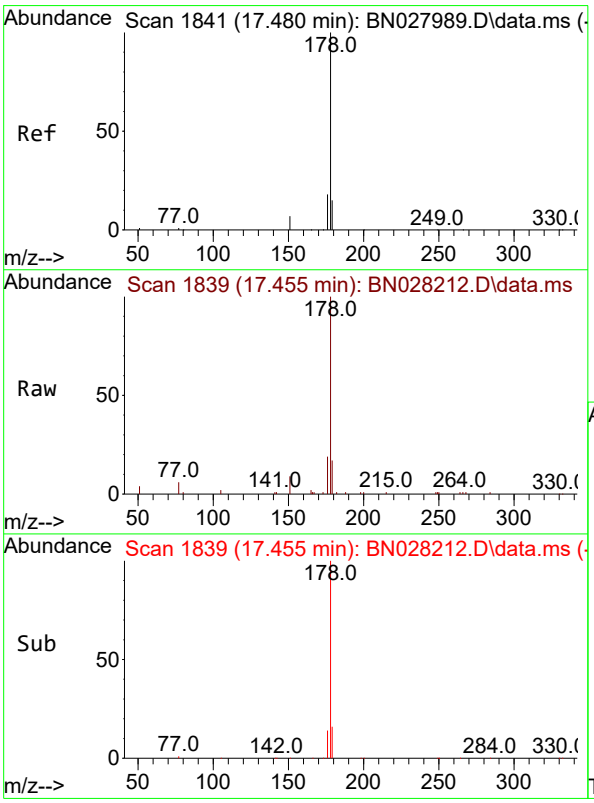
#25
Phenanthrene
Concen: 0.436 ng
RT: 17.368 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 18545

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	16.7	12.4	18.6

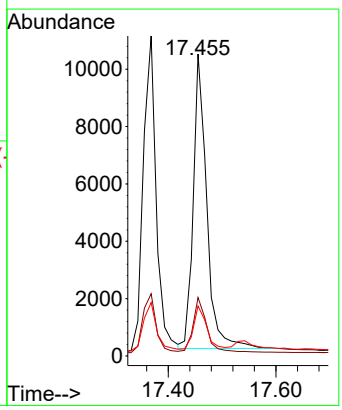


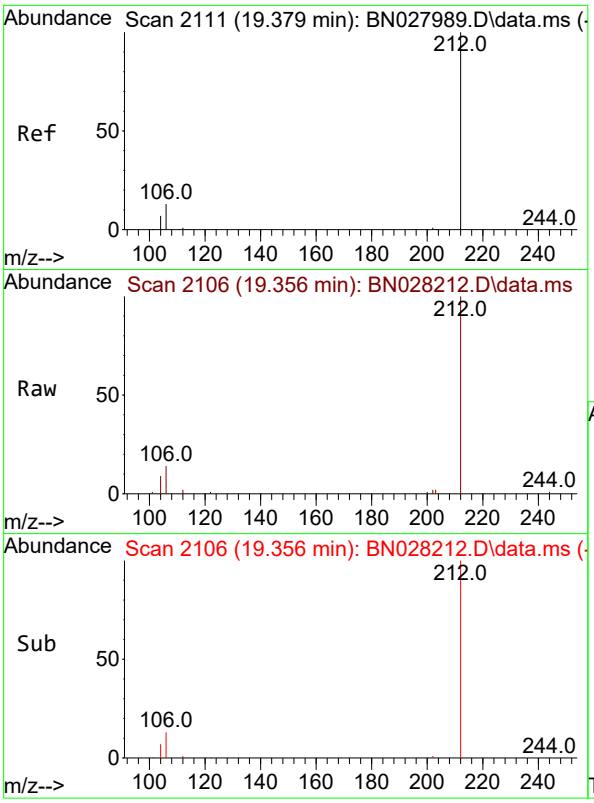


#26
Anthracene
Concen: 0.446 ng
RT: 17.455 min Scan# 1839
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:178 Resp: 17917

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	14.2	12.2	18.2



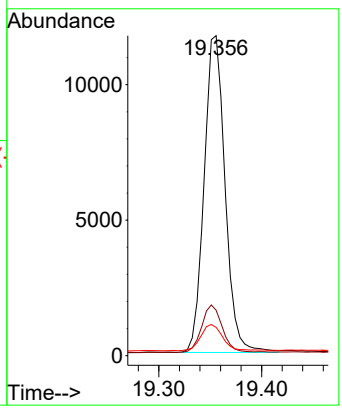


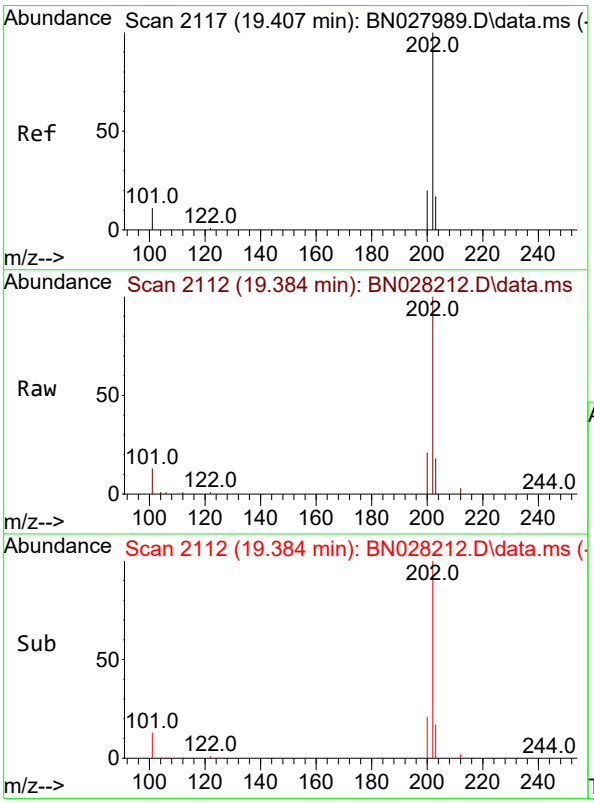
#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 19.356 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 16568

Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.3	16.9
104	8.8	6.4	9.6

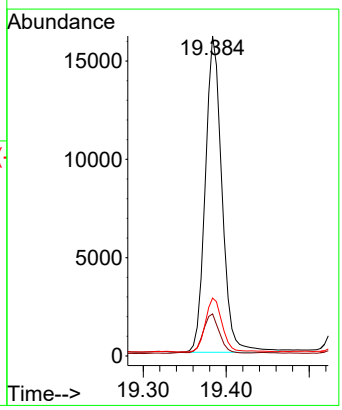


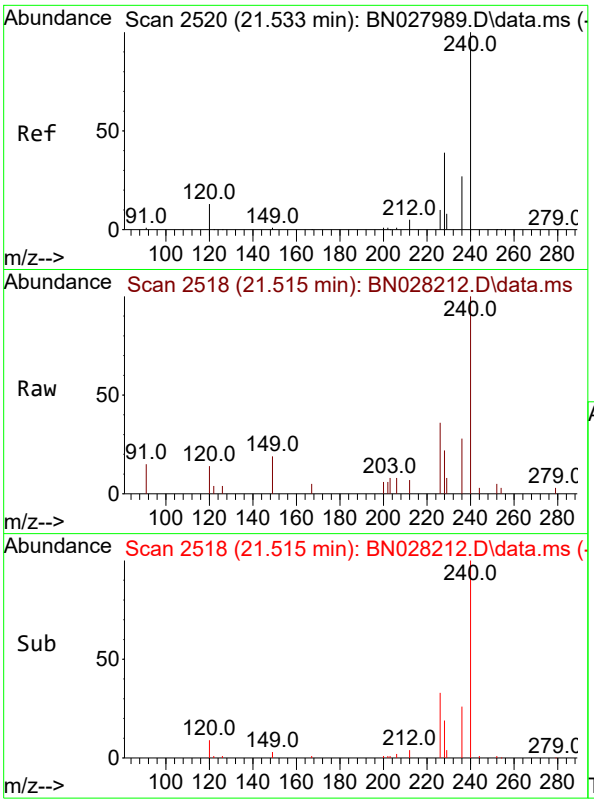


#28
Fluoranthene
Concen: 0.458 ng
RT: 19.384 min Scan# 2112
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:202 Resp: 22459

Ion	Ratio	Lower	Upper
202	100		
101	12.2	9.8	14.6
203	17.2	13.8	20.8



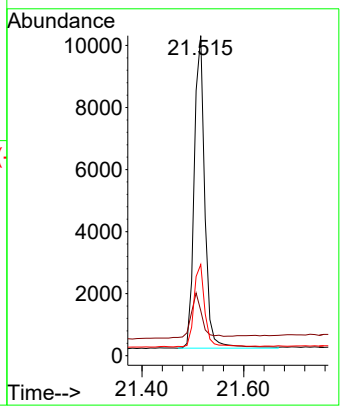


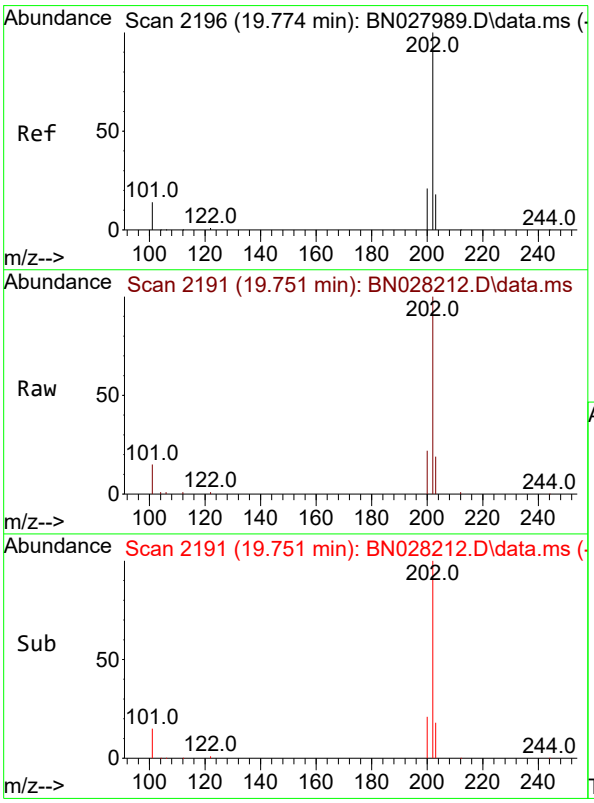
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.515 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 14558

Ion	Ratio	Lower	Upper
240	100		
120	14.0	13.8	20.6
236	28.5	22.6	33.8

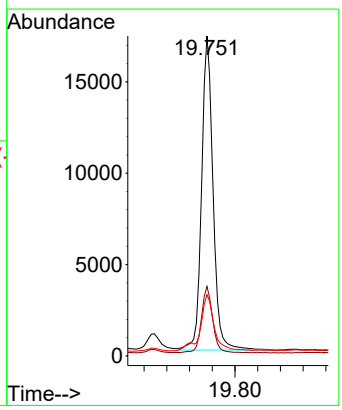


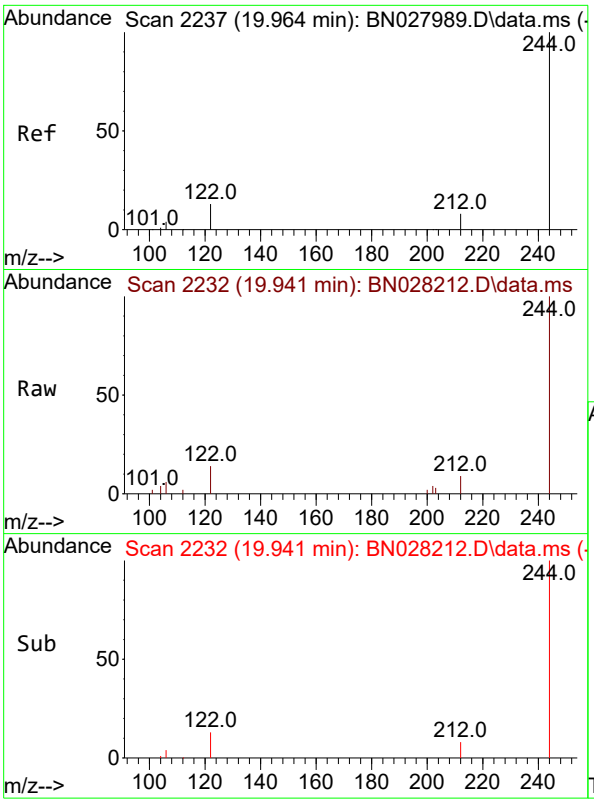


#30
Pyrene
Concen: 0.451 ng
RT: 19.751 min Scan# 2191
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:202 Resp: 24098

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.5	24.7
203	21.5	14.7	22.1



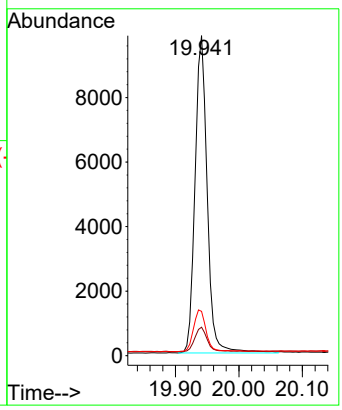


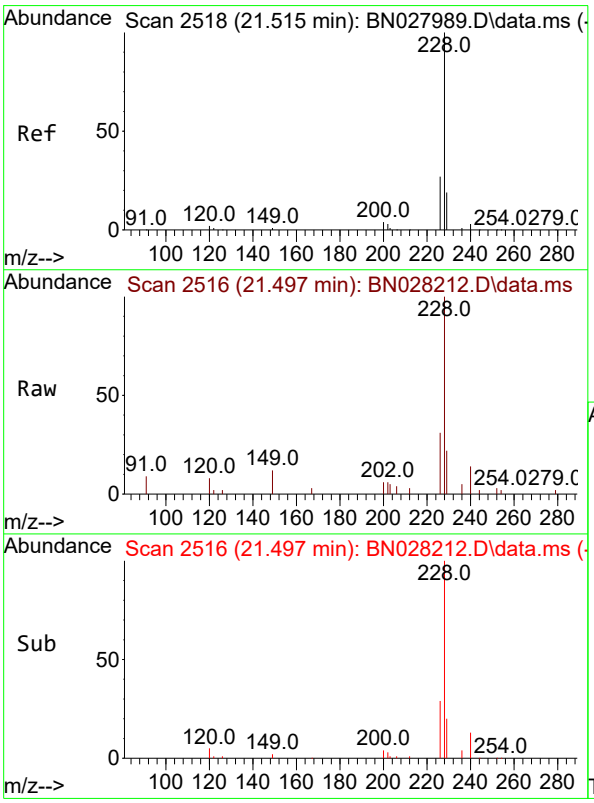
#31
Terphenyl-d14
Concen: 0.385 ng
RT: 19.941 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 13066

Ion	Ratio	Lower	Upper
244	100		
212	8.9	6.6	9.8
122	13.8	11.4	17.0

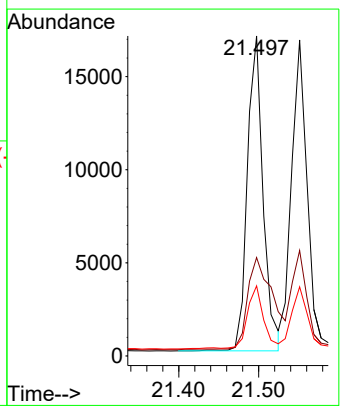


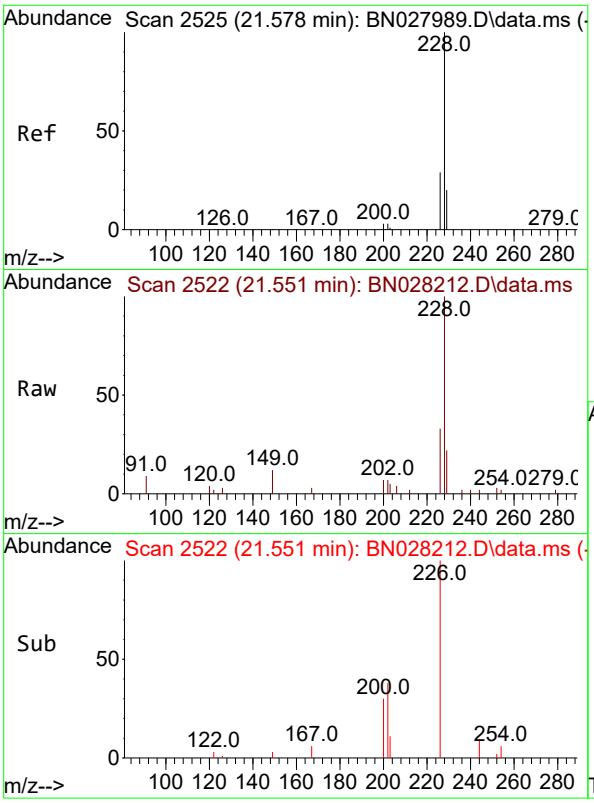


#32
Benzo(a)anthracene
Concen: 0.467 ng
RT: 21.497 min Scan# 2516
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:228 Resp: 23143

Ion	Ratio	Lower	Upper
228	100		
226	30.8	22.0	33.0
229	21.9	16.0	24.0



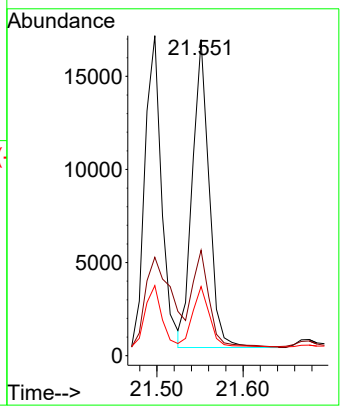


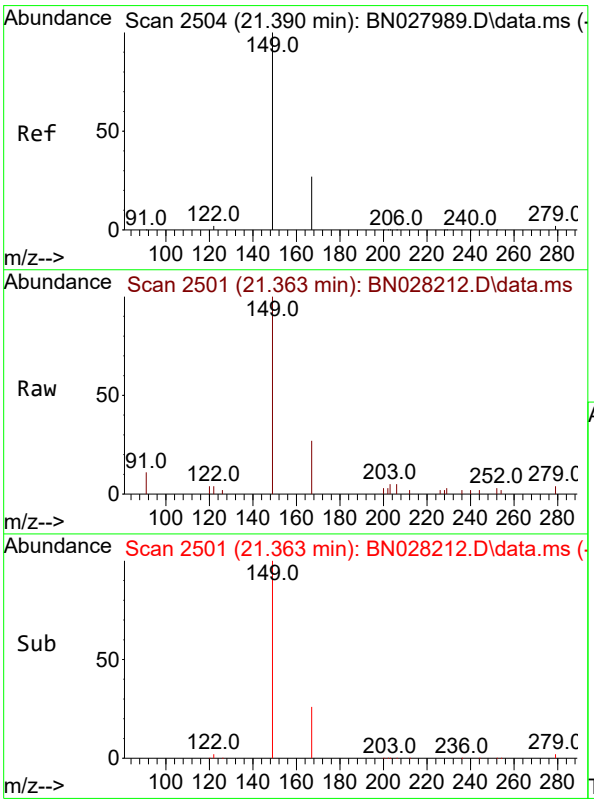
#33
Chrysene
Concen: 0.468 ng
RT: 21.551 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 22357

Ion	Ratio	Lower	Upper
228	100		
226	33.4	23.8	35.8
229	21.9	16.6	25.0

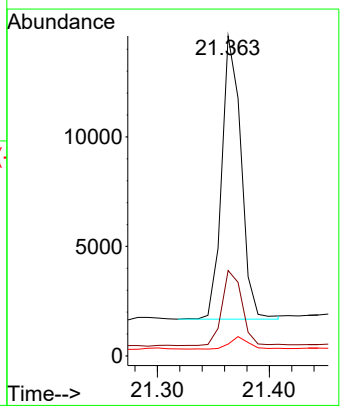


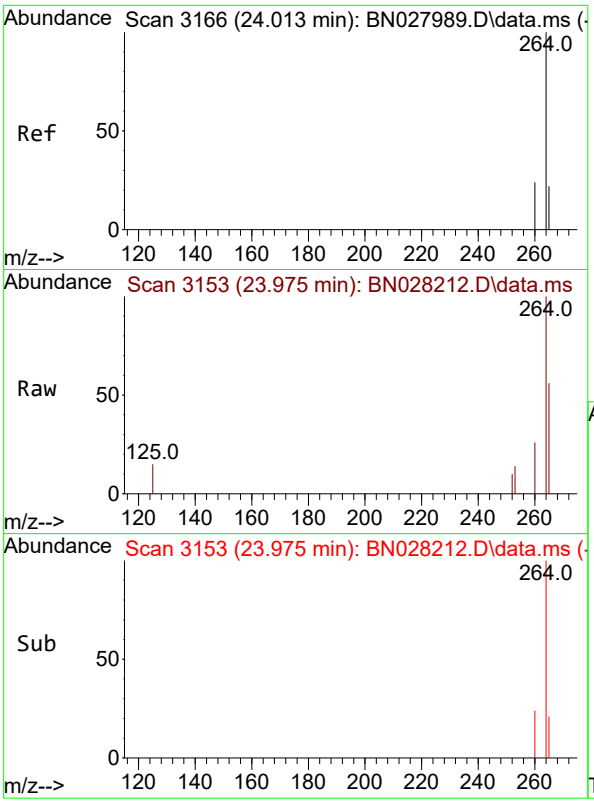


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.477 ng
RT: 21.363 min Scan# 2501
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:149 Resp: 15542

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.1	33.1
279	4.3	3.4	5.0



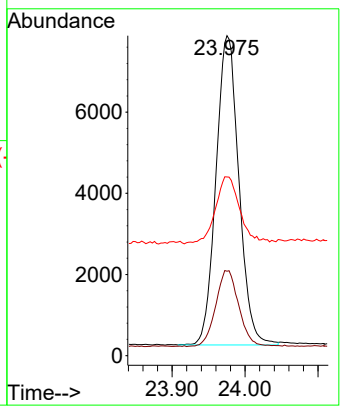


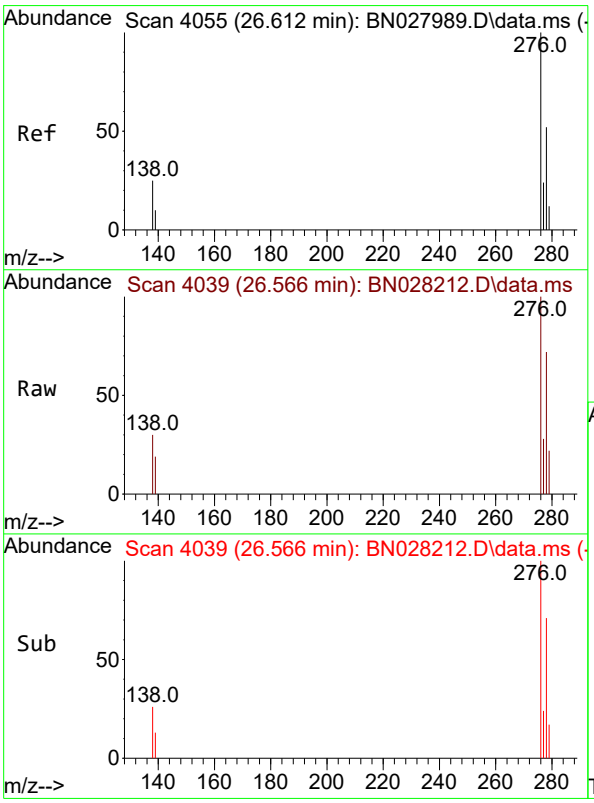
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.975 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 16635

Ion	Ratio	Lower	Upper
264	100		
260	26.4	20.2	30.4
265	55.8	54.8	82.2

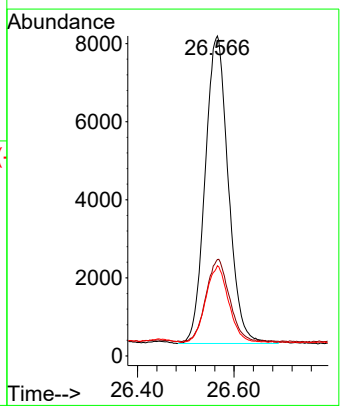


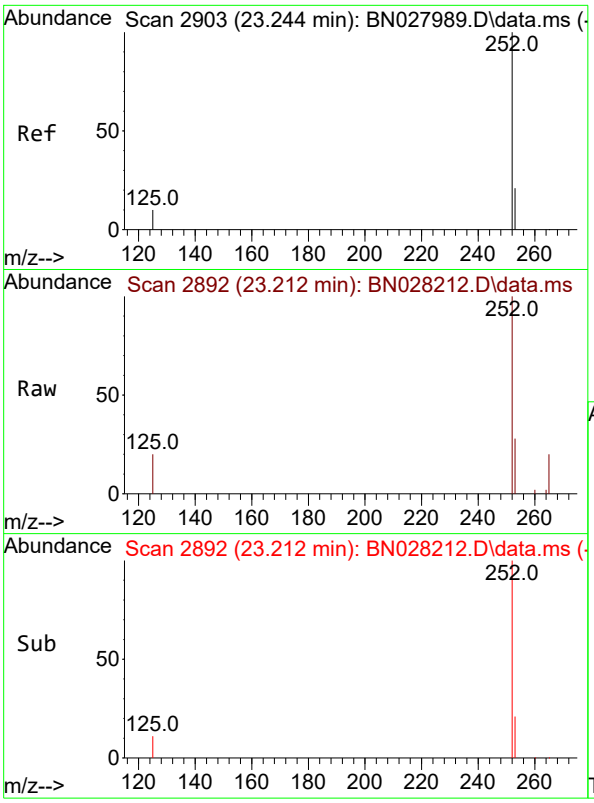


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.468 ng
RT: 26.566 min Scan# 4039
Delta R.T. 0.009 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:276 Resp: 26194

Ion	Ratio	Lower	Upper
276	100		
138	27.0	20.9	31.3
277	24.7	19.8	29.6



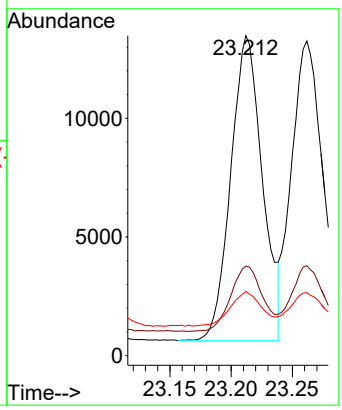


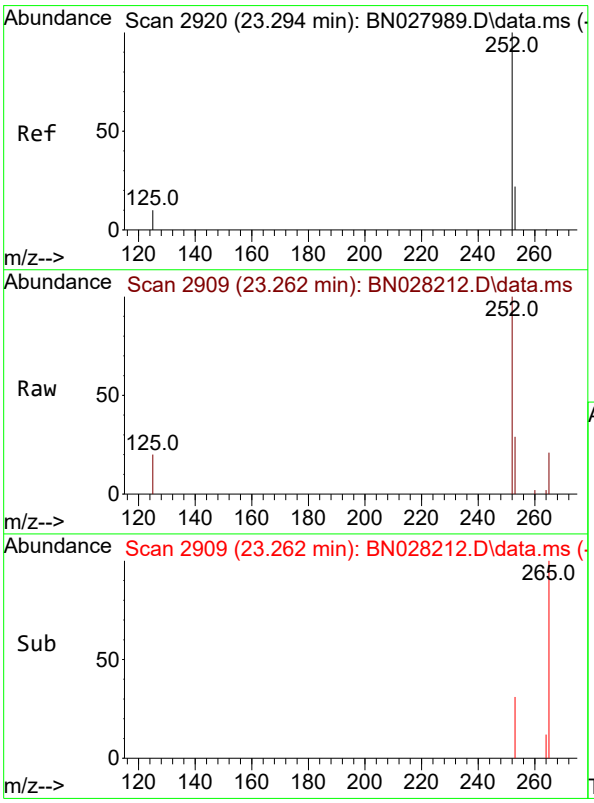
#37
Benzo(b)fluoranthene
Concen: 0.429 ng
RT: 23.212 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 23061

Ion	Ratio	Lower	Upper
252	100		
253	28.0	22.9	34.3
125	20.0	13.8	20.8

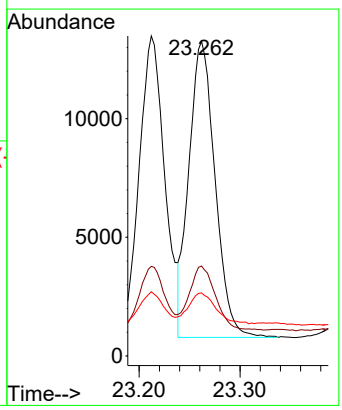


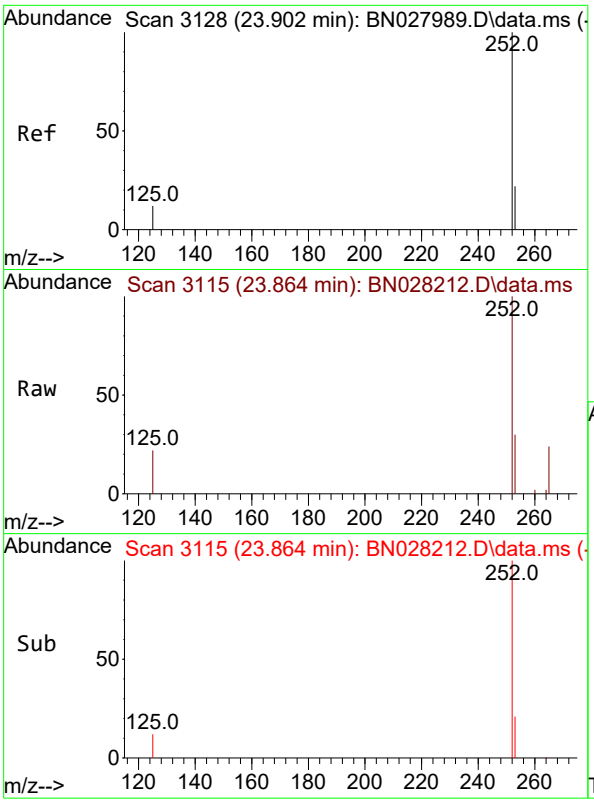


#38
Benzo(k)fluoranthene
Concen: 0.413 ng
RT: 23.262 min Scan# 2909
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:252 Resp: 22492

Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.1	34.7
125	20.0	13.8	20.8



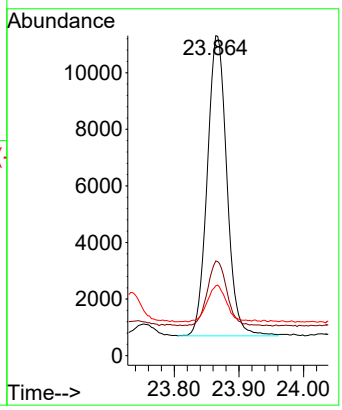


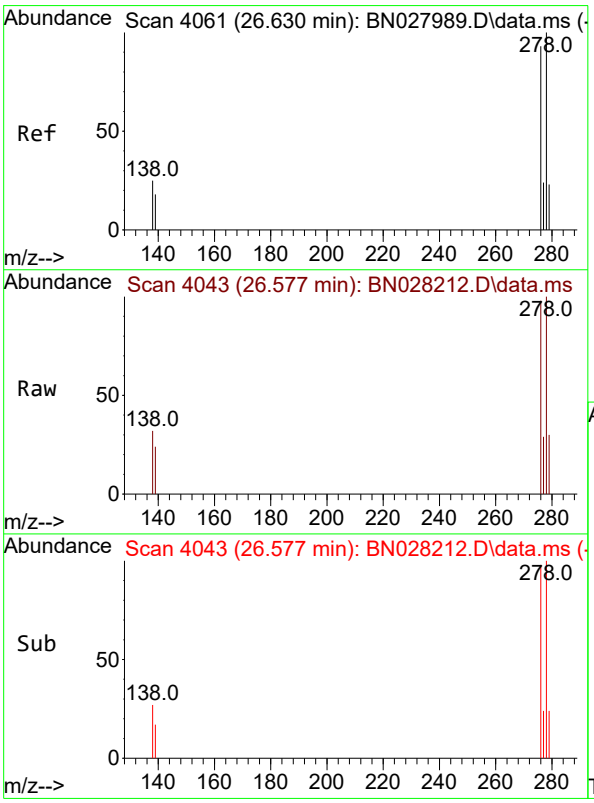
#39
Benzo(a)pyrene
Concen: 0.439 ng
RT: 23.864 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 22280

Ion	Ratio	Lower	Upper
252	100		
253	29.6	25.0	37.4
125	21.9	16.6	24.8

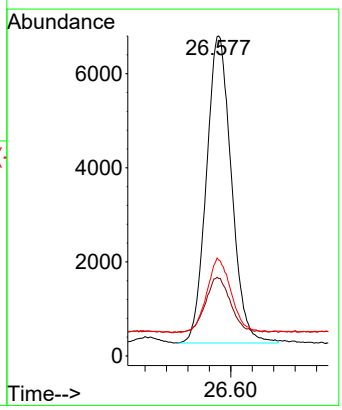


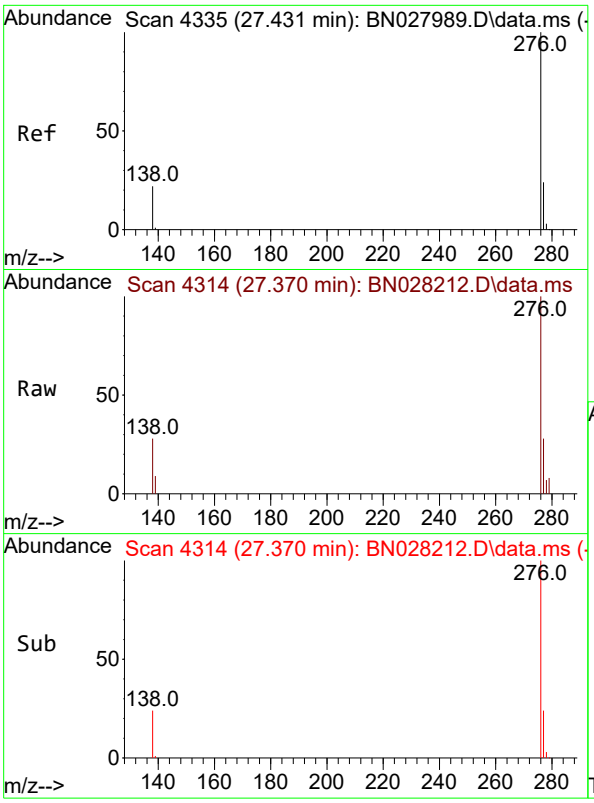


#40
Dibenzo(a,h)anthracene
Concen: 0.462 ng
RT: 26.577 min Scan# 4043
Delta R.T. -0.000 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Tgt Ion:278 Resp: 21138

Ion	Ratio	Lower	Upper
278	100		
139	24.2	17.7	26.5
279	30.0	25.2	37.8





#41
Benzo(g,h,i)perylene
Concen: 0.476 ng
RT: 27.370 min Scan# 4
Delta R.T. 0.003 min
Lab File: BN028212.D
Acq: 11 Oct 2023 00:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 22351

Ion	Ratio	Lower	Upper
276	100		
277	27.9	22.1	33.1
138	28.1	20.8	31.2