Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011223\
Data File : BN023616.D
Acq On : 11 Jan 2023 17:44
Operator : CG/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jan 11 23:58:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN011223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 11 23:54:56 2023
Response via : Initial Calibration

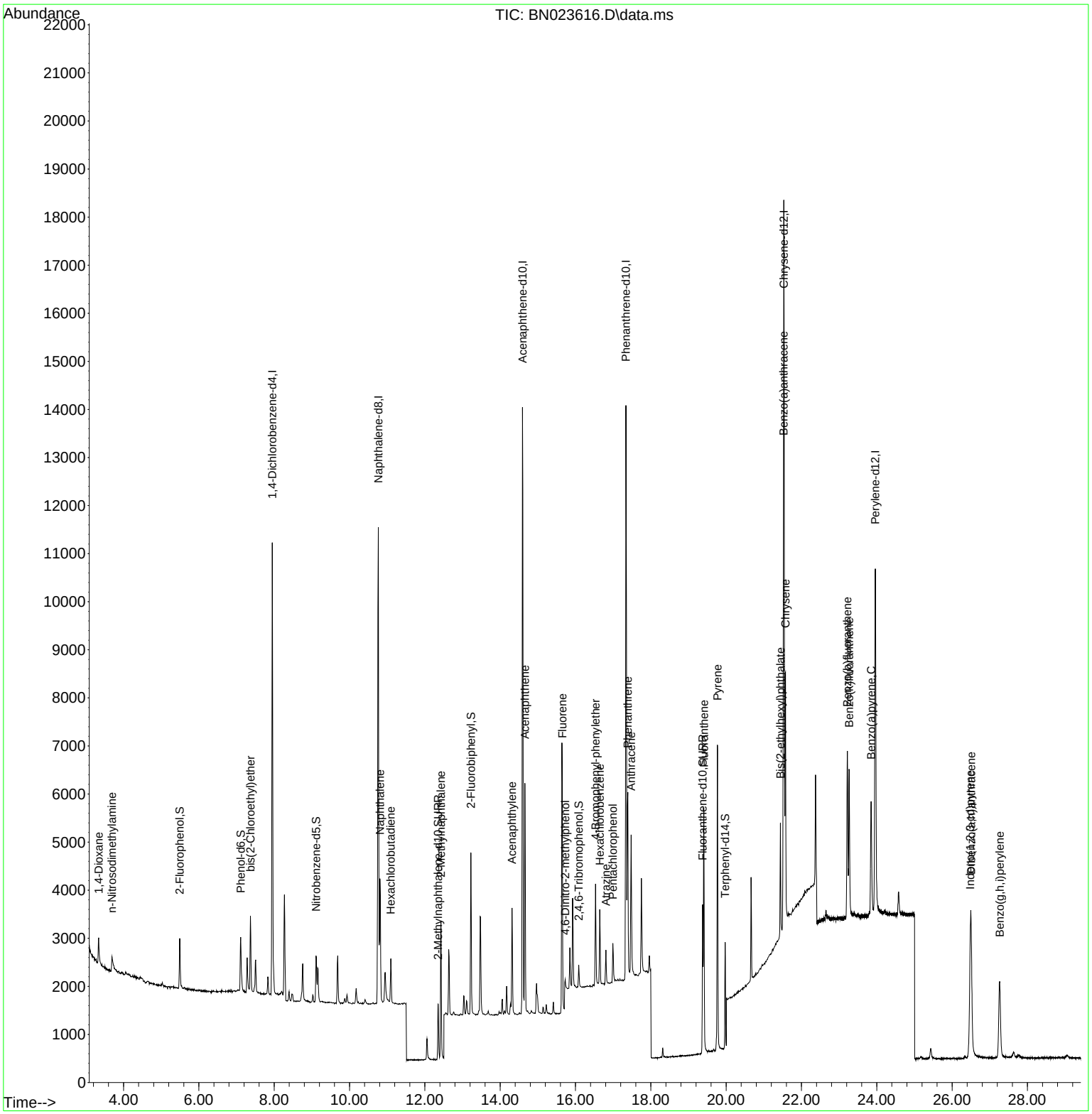
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.948	152	4456	0.400	ng		0.00
7) Naphthalene-d8	10.765	136	13217	0.400	ng		0.00
13) Acenaphthene-d10	14.591	164	7389	0.400	ng		0.00
19) Phenanthrene-d10	17.340	188	16108	0.400	ng		0.00
29) Chrysene-d12	21.531	240	13129	0.400	ng	#	0.00
35) Perylene-d12	23.961	264	10612	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.493	112	896	0.091	ng		0.00
5) Phenol-d6	7.110	99	1122	0.093	ng		0.00
8) Nitrobenzene-d5	9.110	82	919	0.089	ng		0.00
11) 2-Methylnaphthalene-d10	12.352	152	1663	0.086	ng		0.00
14) 2,4,6-Tribromophenol	16.086	330	271	0.075	ng		0.00
15) 2-Fluorobiphenyl	13.223	172	2863	0.098	ng		0.00
27) Fluoranthene-d10	19.376	212	3494	0.089	ng		0.00
31) Terphenyl-d14	19.974	244	3225	0.105	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.340	88	388	0.090	ng		99
3) n-Nitrosodimethylamine	3.694	42	306	0.059	ng	#	87
6) bis(2-Chloroethyl)ether	7.370	93	1226	0.104	ng		96
9) Naphthalene	10.808	128	3431	0.102	ng		96
10) Hexachlorobutadiene	11.096	225	694	0.102	ng	#	99
12) 2-Methylnaphthalene	12.427	142	2603	0.107	ng		96
16) Acenaphthylene	14.313	152	2583	0.084	ng		99
17) Acenaphthene	14.655	154	2321	0.112	ng		100
18) Fluorene	15.650	166	2678	0.093	ng		98
20) 4,6-Dinitro-2-methylph...	15.726	198	141	0.056	ng	#	6
21) 4-Bromophenyl-phenylether	16.533	248	853	0.090	ng		96
22) Hexachlorobenzene	16.645	284	1114	0.098	ng		97
23) Atrazine	16.806	200	555	0.076	ng	#	90
24) Pentachlorophenol	16.992	266	454	0.108	ng		96
25) Phenanthrene	17.389	178	4429	0.097	ng		99
26) Anthracene	17.476	178	3330	0.087	ng		99
28) Fluoranthene	19.410	202	4826	0.094	ng		99
30) Pyrene	19.768	202	5845	0.119	ng		99
32) Benzo(a)anthracene	21.522	228	4070	0.093	ng		98
33) Chrysene	21.575	228	4661	0.104	ng		97
34) Bis(2-ethylhexyl)phtha...	21.441	149	2173	0.081	ng		98
36) Indeno(1,2,3-cd)pyrene	26.481	276	4415	0.111	ng	#	85
37) Benzo(b)fluoranthene	23.218	252	4458	0.109	ng	#	71
38) Benzo(k)fluoranthene	23.268	252	4046	0.101	ng	#	77
39) Benzo(a)pyrene	23.853	252	3283	0.106	ng	#	55
40) Dibenzo(a,h)anthracene	26.502	278	3481	0.115	ng	#	85
41) Benzo(g,h,i)perylene	27.262	276	3591	0.103	ng	#	90

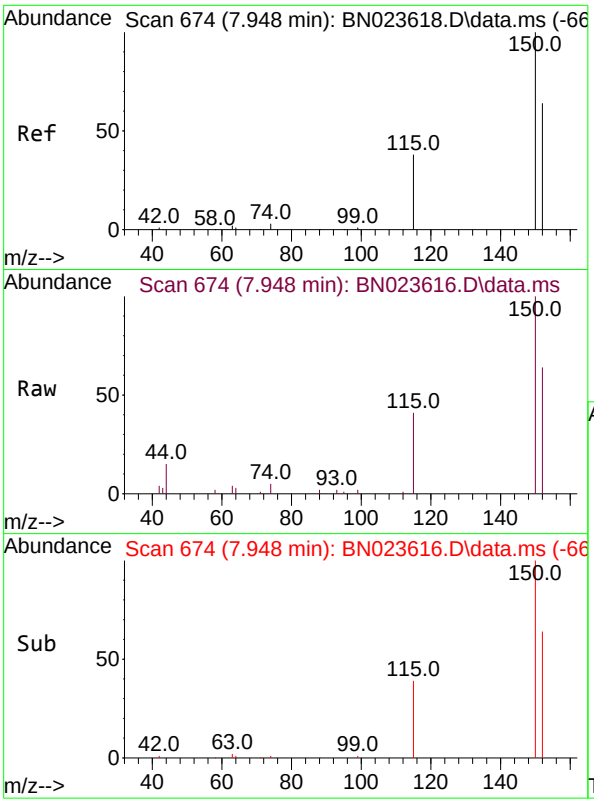
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011223\
Data File : BN023616.D
Acq On : 11 Jan 2023 17:44
Operator : CG/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jan 11 23:58:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN011223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 11 23:54:56 2023
Response via : Initial Calibration



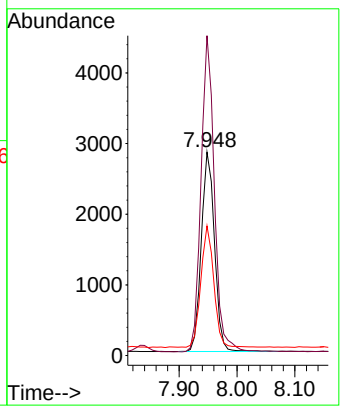


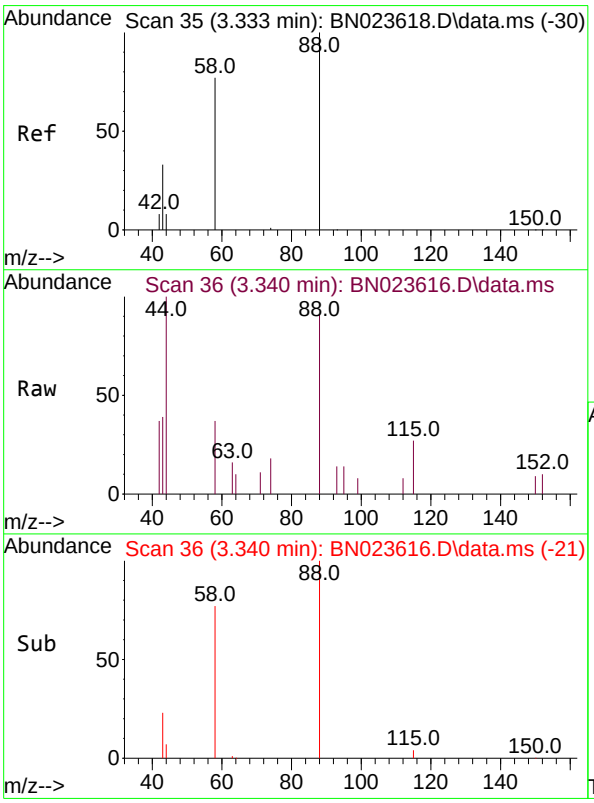
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.948 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 4456

Ion	Ratio	Lower	Upper
152	100		
150	157.3	123.8	185.8
115	63.8	50.6	75.8

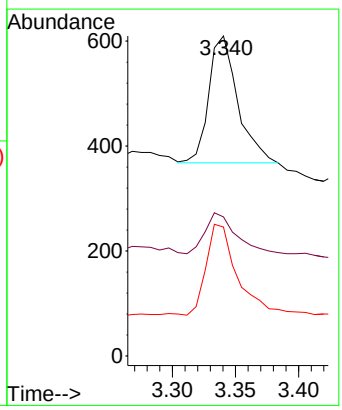


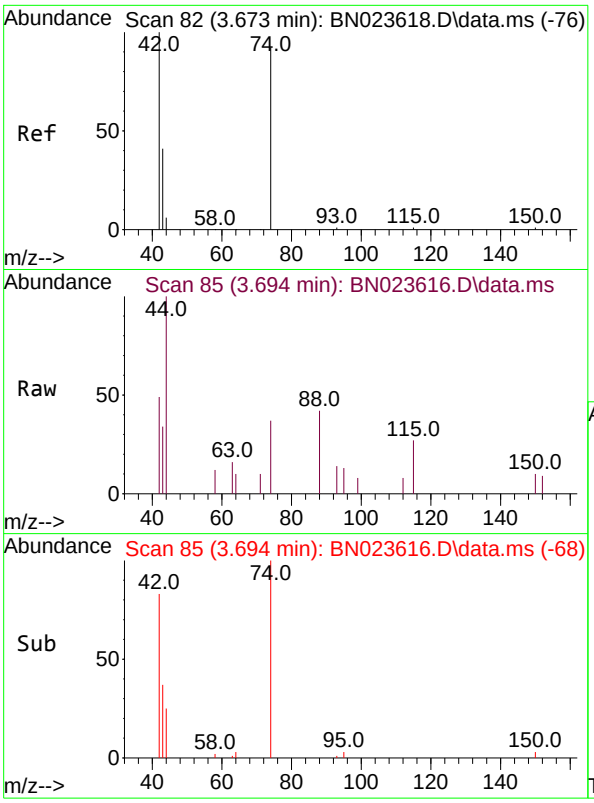


#2
1,4-Dioxane
Concen: 0.090 ng
RT: 3.340 min Scan# 36
Delta R.T. 0.007 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion: 88 Resp: 388

Ion	Ratio	Lower	Upper
88	100		
43	34.0	26.2	39.2
58	75.3	60.6	90.8



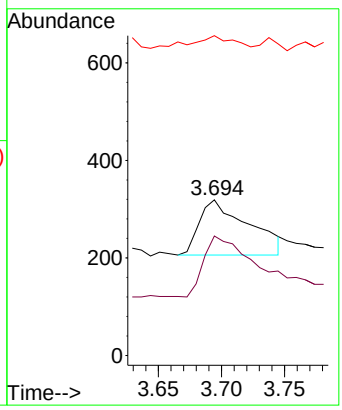


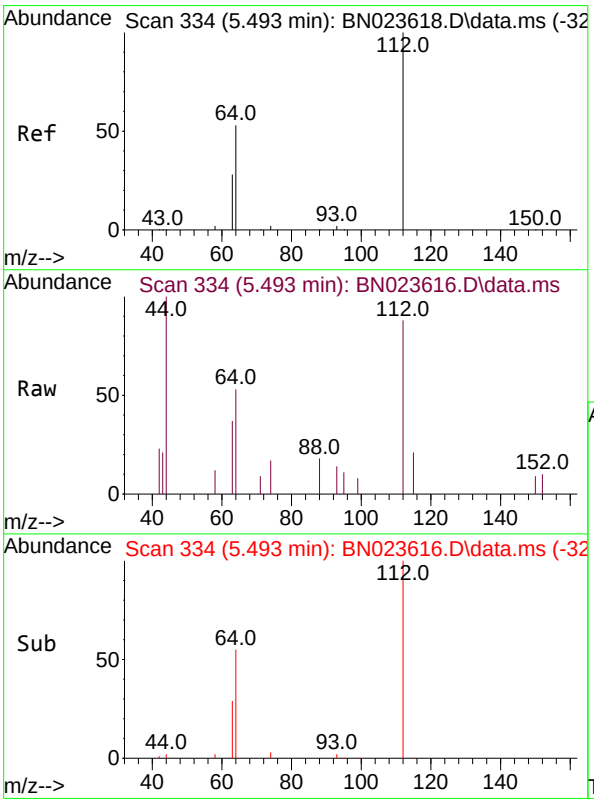
#3
n-Nitrosodimethylamine
Concen: 0.059 ng
RT: 3.694 min Scan# 8
Delta R.T. 0.022 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 306

Ion	Ratio	Lower	Upper
42	100		
74	102.9	92.1	138.1
44	19.9	5.4	8.0#

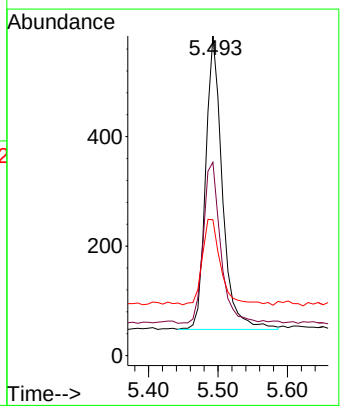


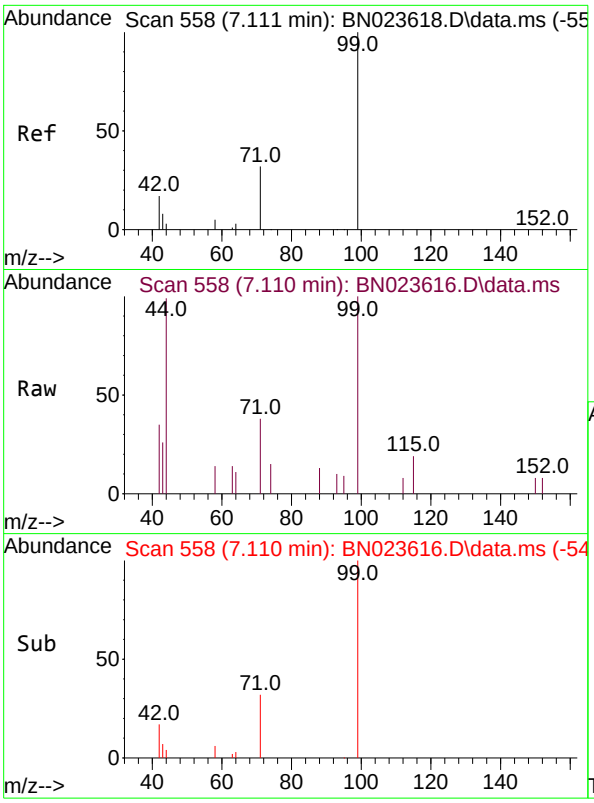


#4
2-Fluorophenol
Concen: 0.091 ng
RT: 5.493 min Scan# 334
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:112 Resp: 896

Ion	Ratio	Lower	Upper
112	100		
64	57.7	44.9	67.3
63	32.7	24.9	37.3



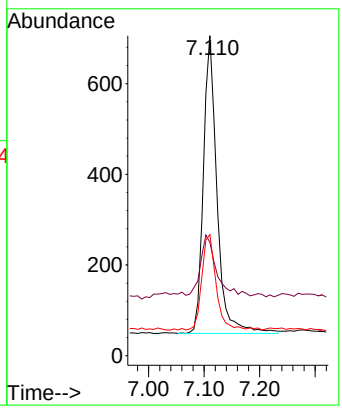


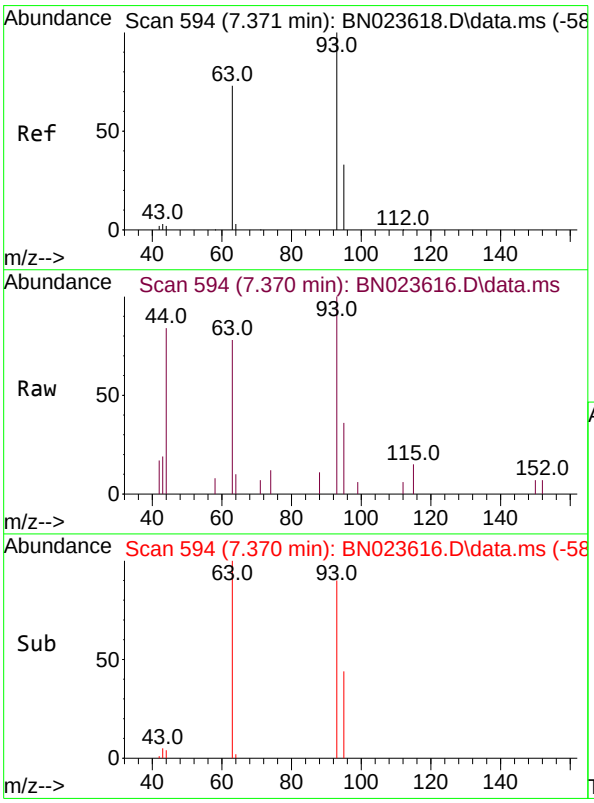
#5
Phenol-d6
Concen: 0.093 ng
RT: 7.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 1122

Ion	Ratio	Lower	Upper
99	100		
42	23.7	18.8	28.2
71	34.0	28.2	42.4

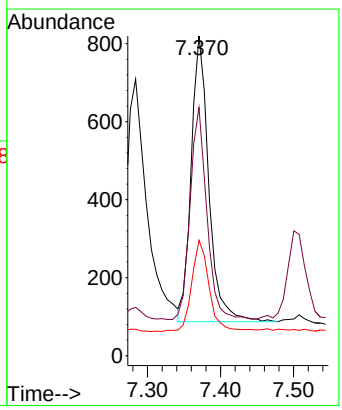


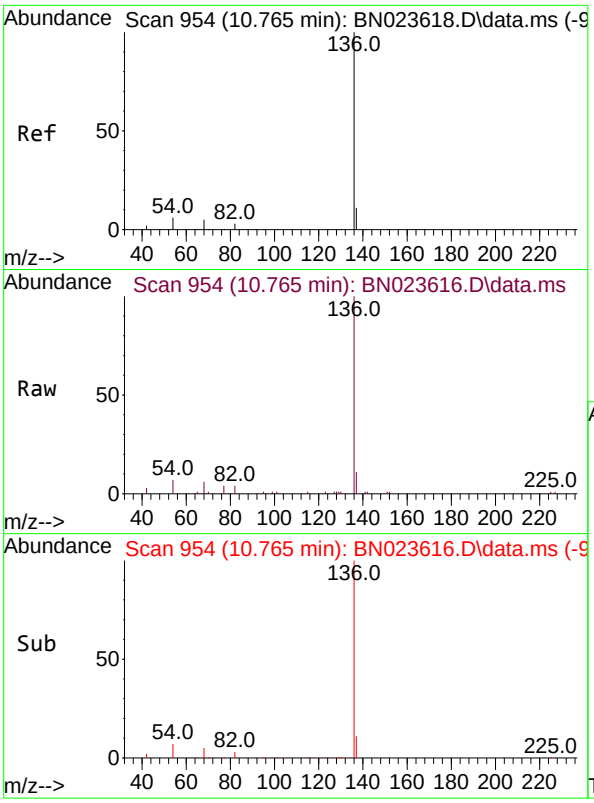


#6
bis(2-Chloroethyl)ether
Concen: 0.104 ng
RT: 7.370 min Scan# 594
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion: 93 Resp: 1226

Ion	Ratio	Lower	Upper
93	100		
63	70.3	59.6	89.4
95	31.8	25.3	37.9



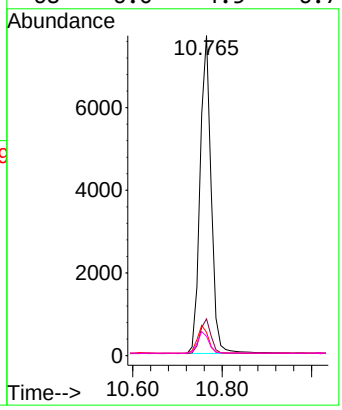


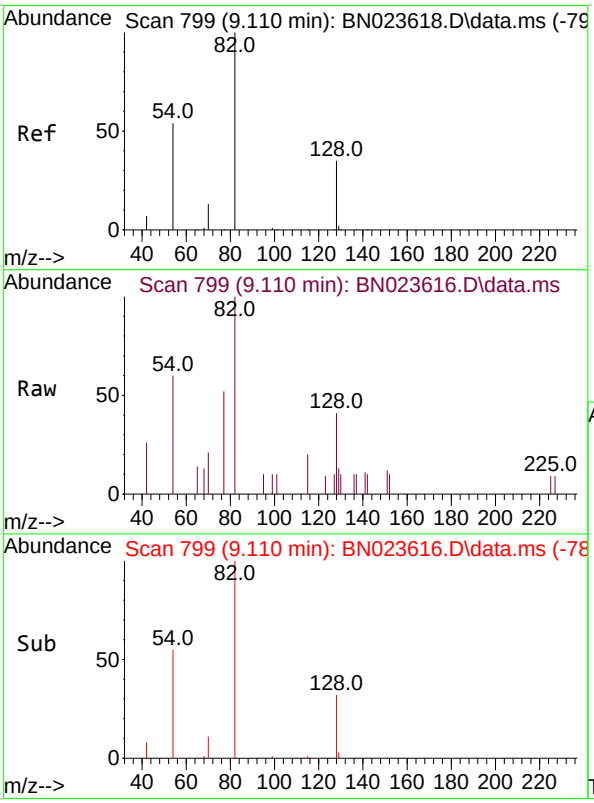
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.765 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 13217

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.3	13.9
54	7.3	5.7	8.5
68	6.0	4.5	6.7

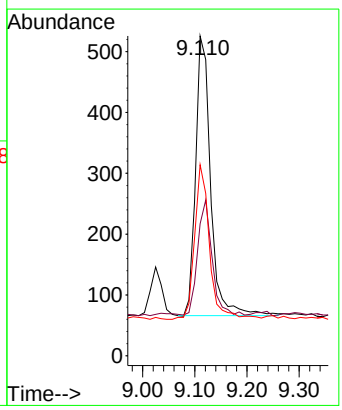


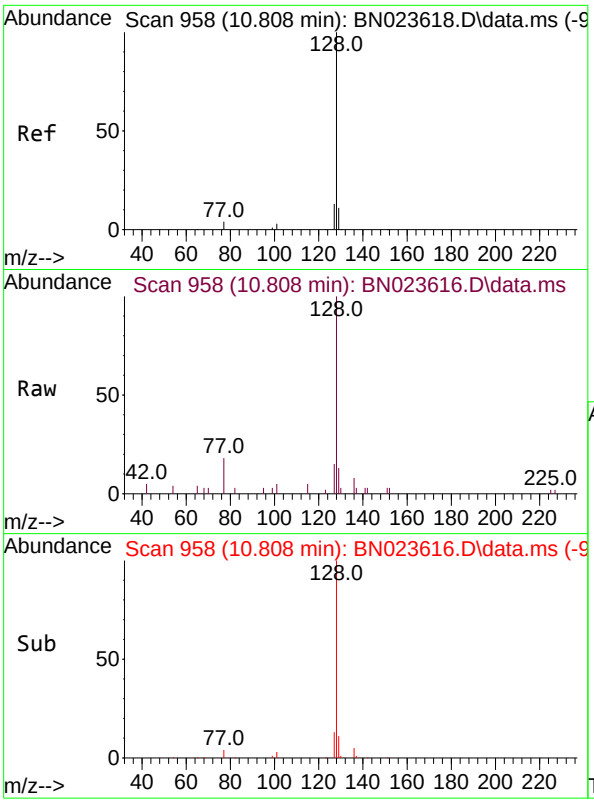


#8
Nitrobenzene-d5
Concen: 0.089 ng
RT: 9.110 min Scan# 799
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion: 82 Resp: 919

Ion	Ratio	Lower	Upper
82	100		
128	41.3	29.8	44.8
54	59.7	43.9	65.9



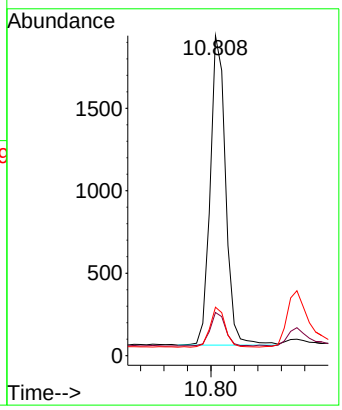


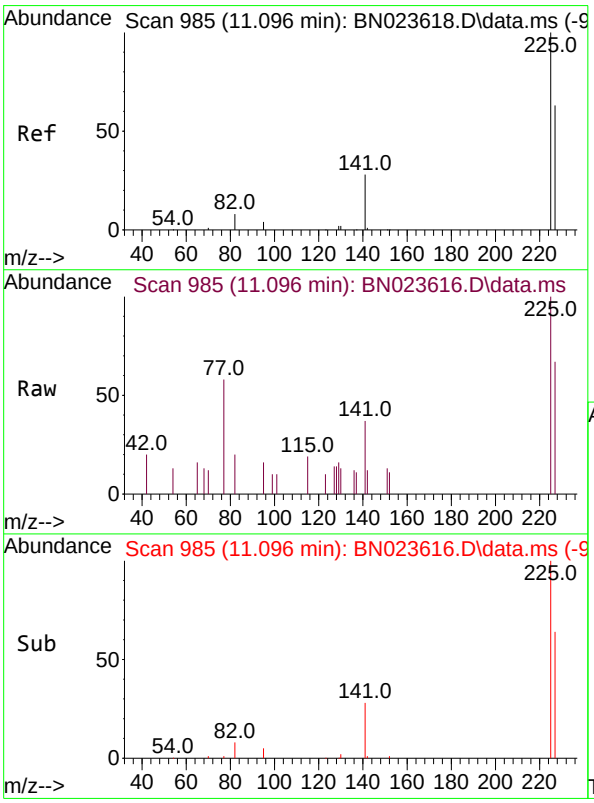
#9
Naphthalene
Concen: 0.102 ng
RT: 10.808 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 3431

Ion	Ratio	Lower	Upper
128	100		
129	13.5	9.2	13.8
127	15.1	11.0	16.4

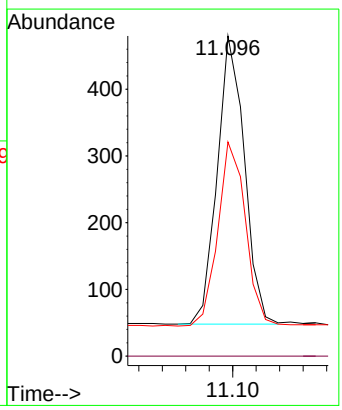


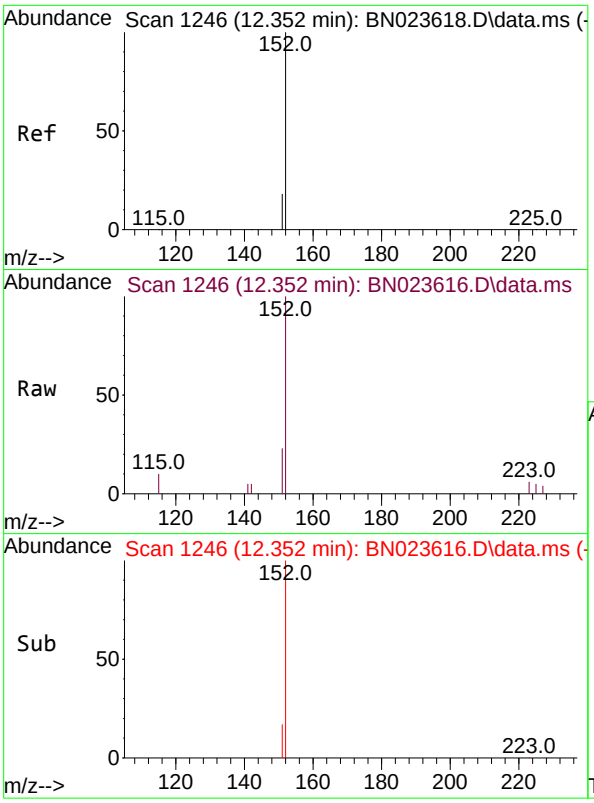


#10
Hexachlorobutadiene
Concen: 0.102 ng
RT: 11.096 min Scan# 985
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:225 Resp: 694

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	51.8	77.6



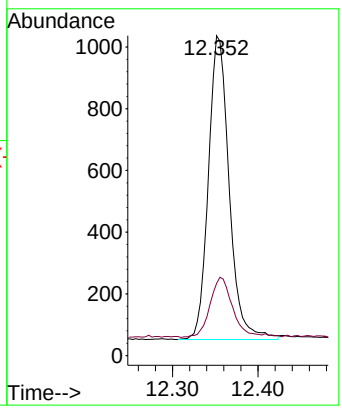


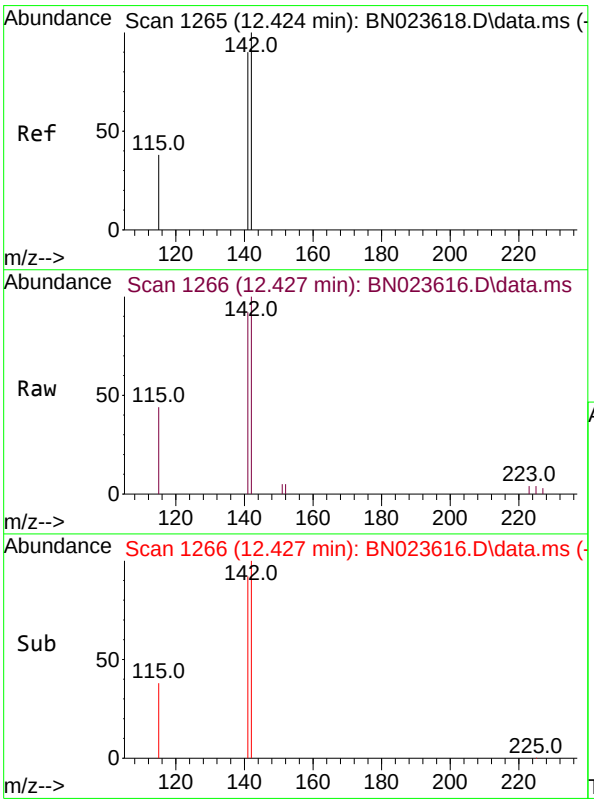
#11
2-Methylnaphthalene-d10
Concen: 0.086 ng
RT: 12.352 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 1663

Ion	Ratio	Lower	Upper
152	100		
151	21.9	16.9	25.3

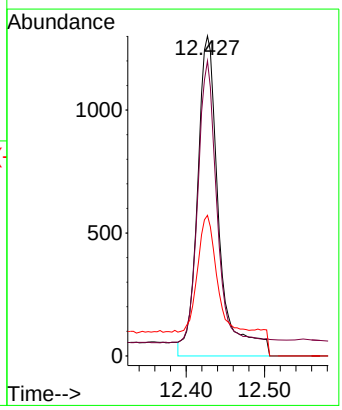


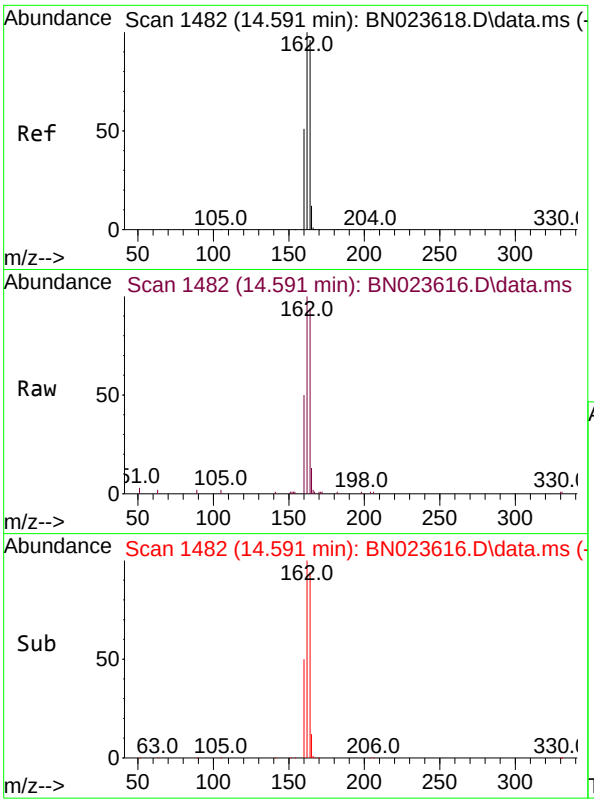


#12
2-Methylnaphthalene
Concen: 0.107 ng
RT: 12.427 min Scan# 1266
Delta R.T. 0.004 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:142 Resp: 2603

Ion	Ratio	Lower	Upper
142	100		
141	92.2	72.0	108.0
115	43.9	31.7	47.5



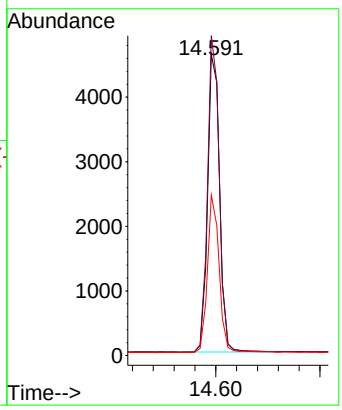


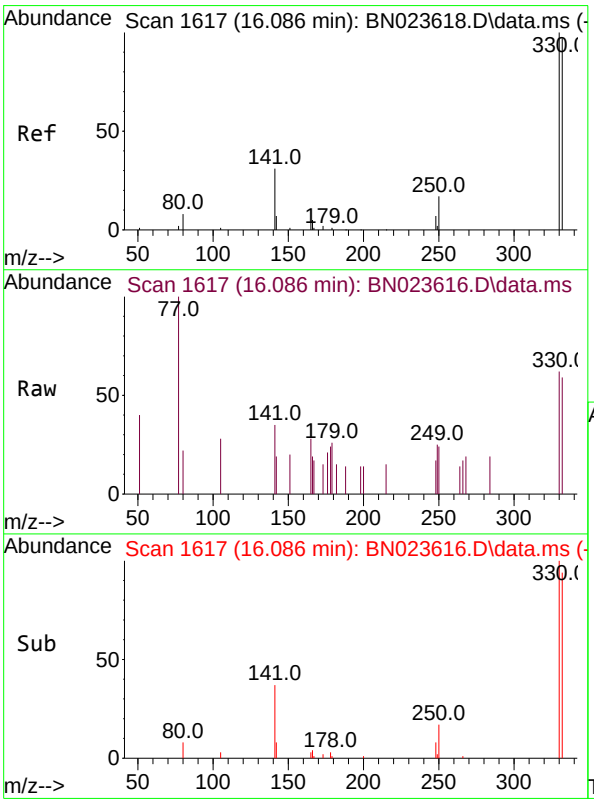
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.591 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 7389

Ion	Ratio	Lower	Upper
164	100		
162	106.4	83.4	125.2
160	53.4	42.7	64.1

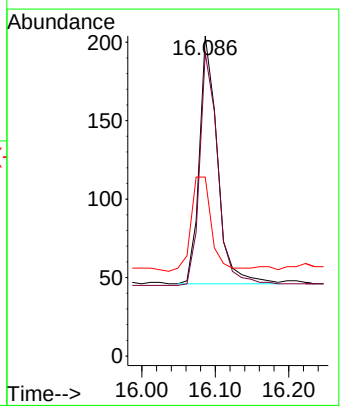


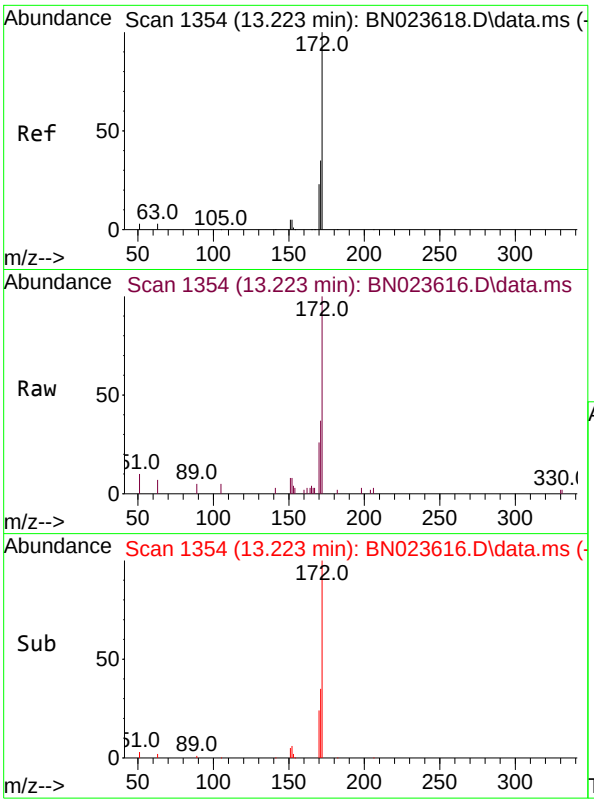


#14
2,4,6-Tribromophenol
Concen: 0.075 ng
RT: 16.086 min Scan# 1617
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:330 Resp: 271

Ion	Ratio	Lower	Upper
330	100		
332	94.8	78.1	117.1
141	42.8	33.4	50.0



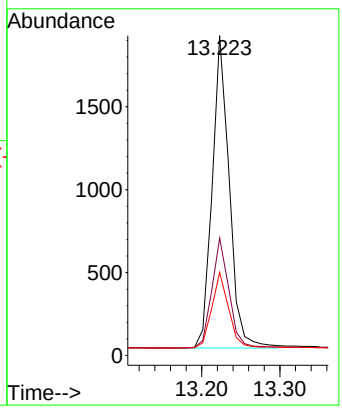


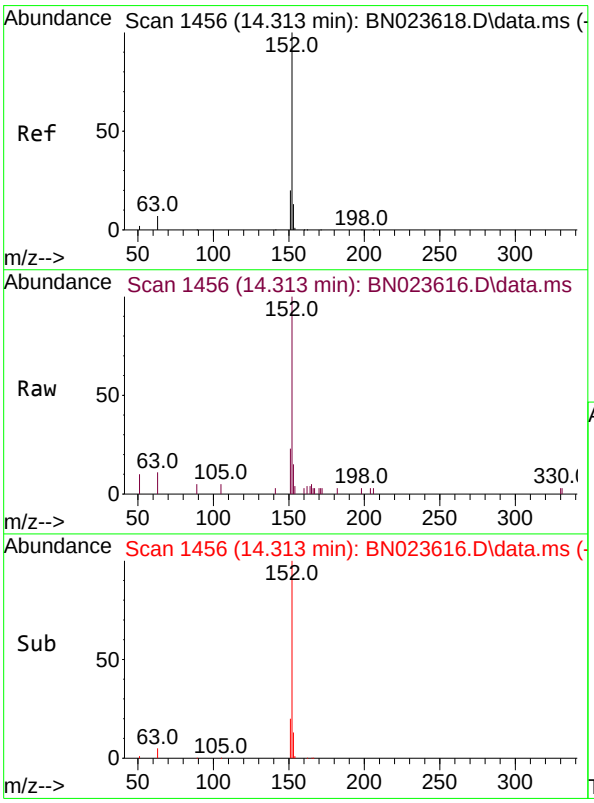
#15
2-Fluorobiphenyl
Concen: 0.098 ng
RT: 13.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 2863

Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.0	42.0
170	26.0	19.0	28.4

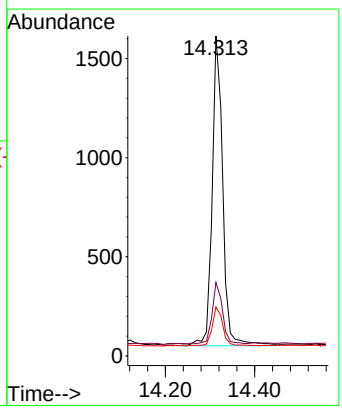


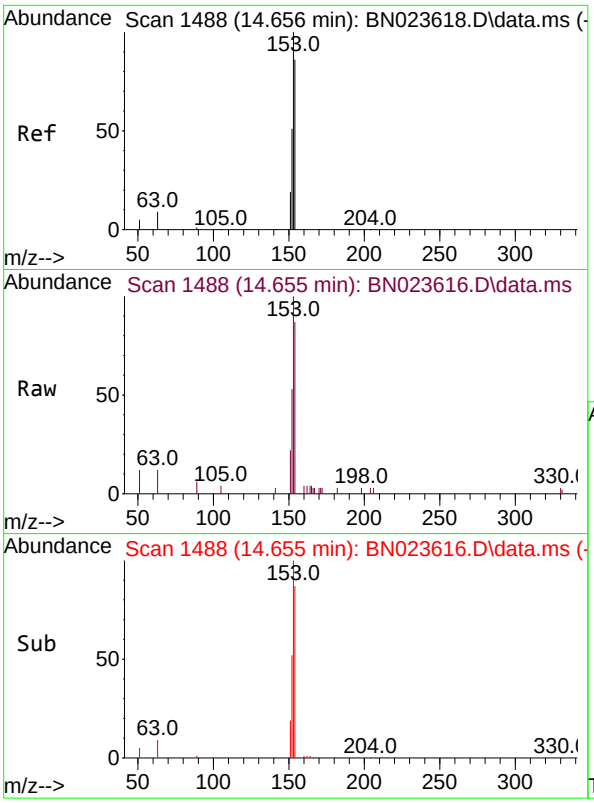


#16
Acenaphthylene
Concen: 0.084 ng
RT: 14.313 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:152 Resp: 2583

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.6	23.4
153	12.6	10.5	15.7



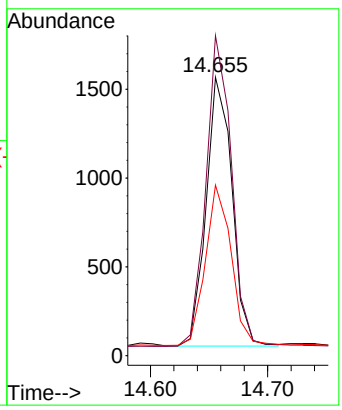


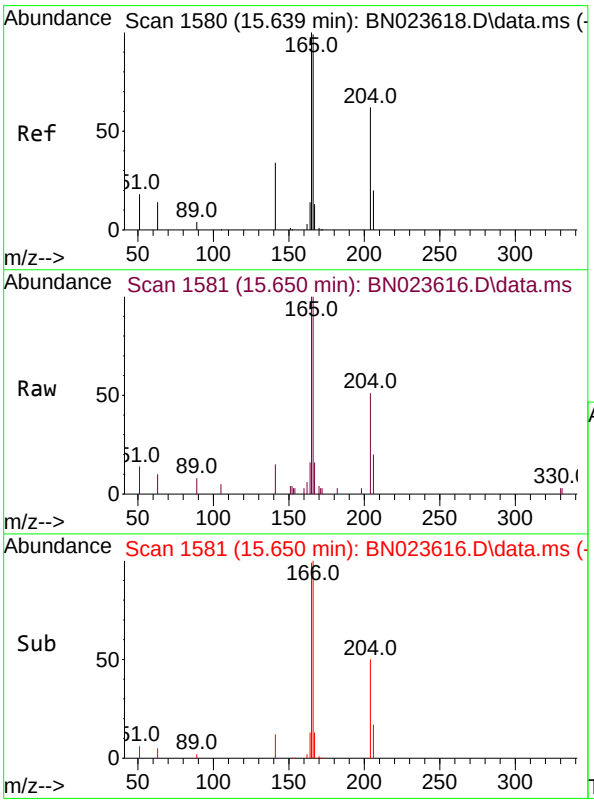
#17
Acenaphthene
Concen: 0.112 ng
RT: 14.655 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 2321

Ion	Ratio	Lower	Upper
154	100		
153	114.9	92.4	138.6
152	60.0	48.2	72.2

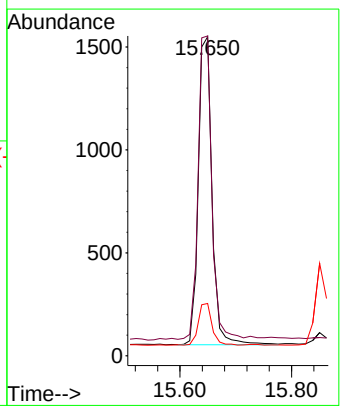


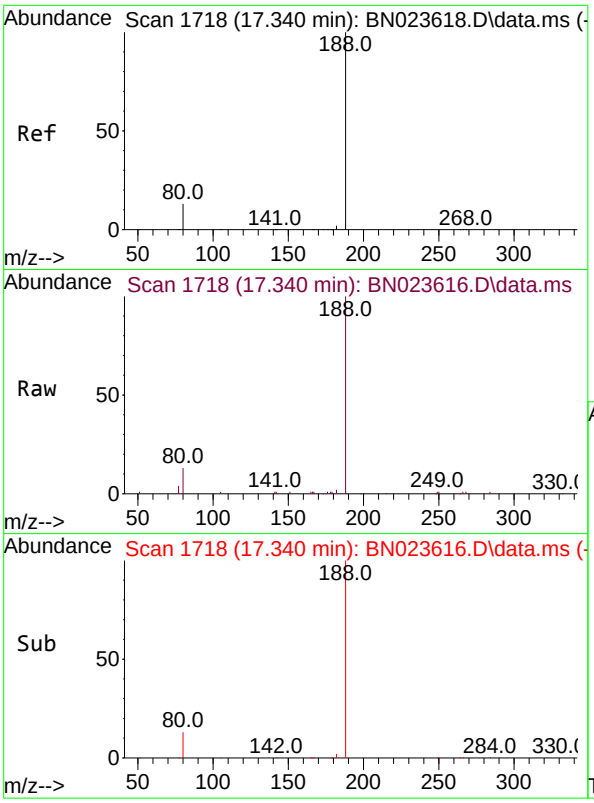


#18
Fluorene
Concen: 0.093 ng
RT: 15.650 min Scan# 1581
Delta R.T. 0.011 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:166 Resp: 2678

Ion	Ratio	Lower	Upper
166	100		
165	98.8	80.4	120.6
167	12.8	10.6	16.0



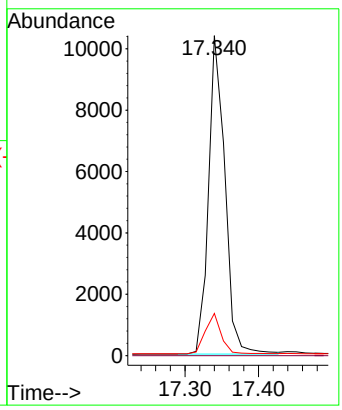


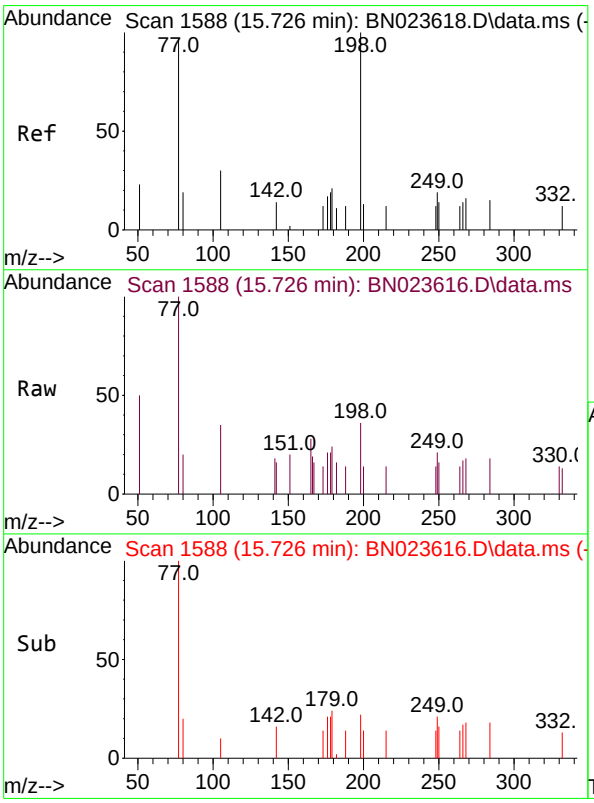
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.340 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 16108

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.2	11.0	16.4

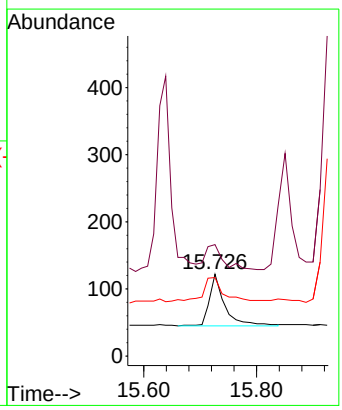


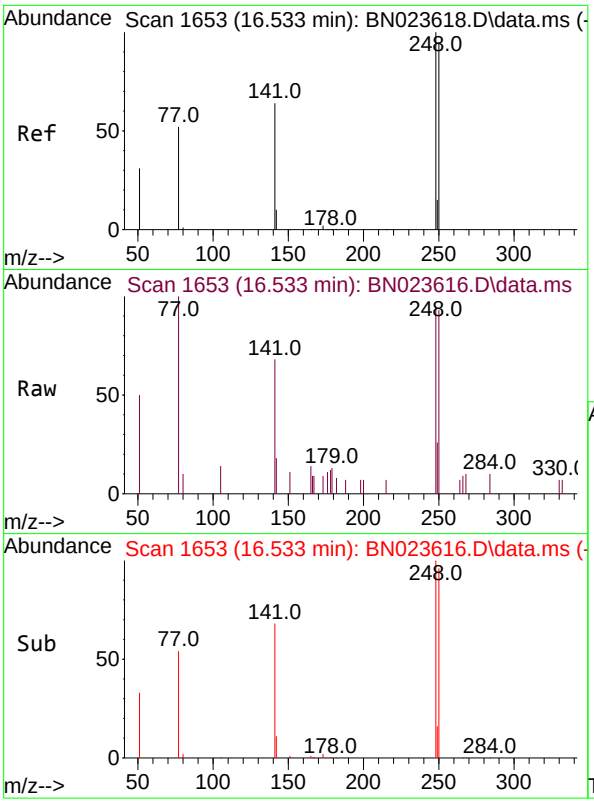


#20
4,6-Dinitro-2-methylphenol
Concen: 0.056 ng
RT: 15.726 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:198 Resp: 141

Ion	Ratio	Lower	Upper
198	100		
51	136.1	44.9	67.3#
105	95.9	37.0	55.4#



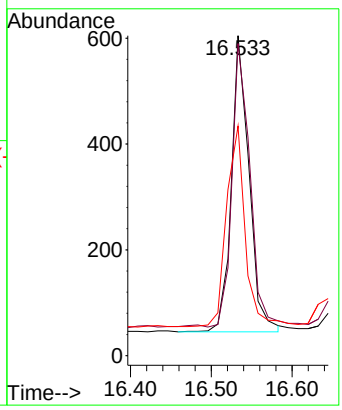


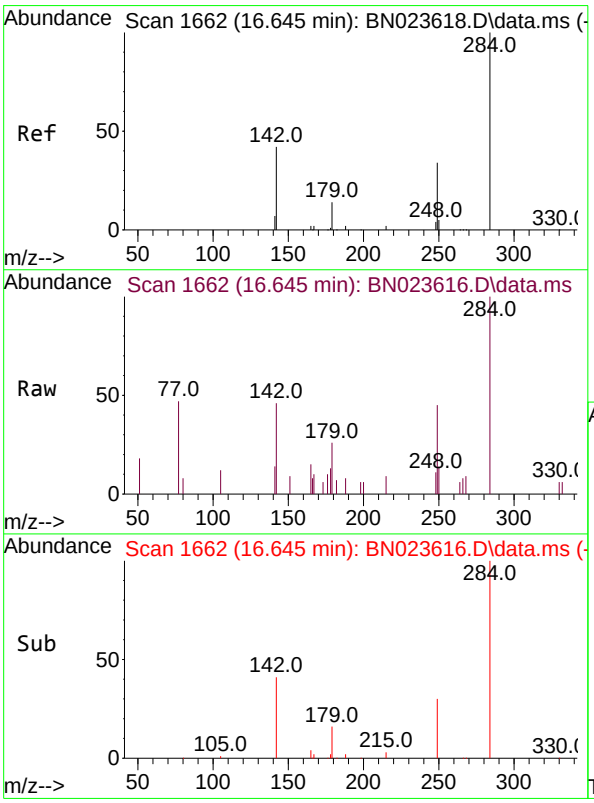
#21
4-Bromophenyl-phenylether
Concen: 0.090 ng
RT: 16.533 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 853

Ion	Ratio	Lower	Upper
248	100		
250	97.5	76.6	114.8
141	71.7	52.3	78.5

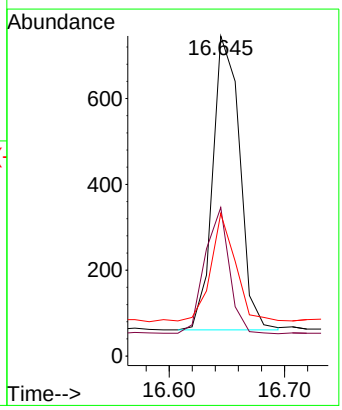


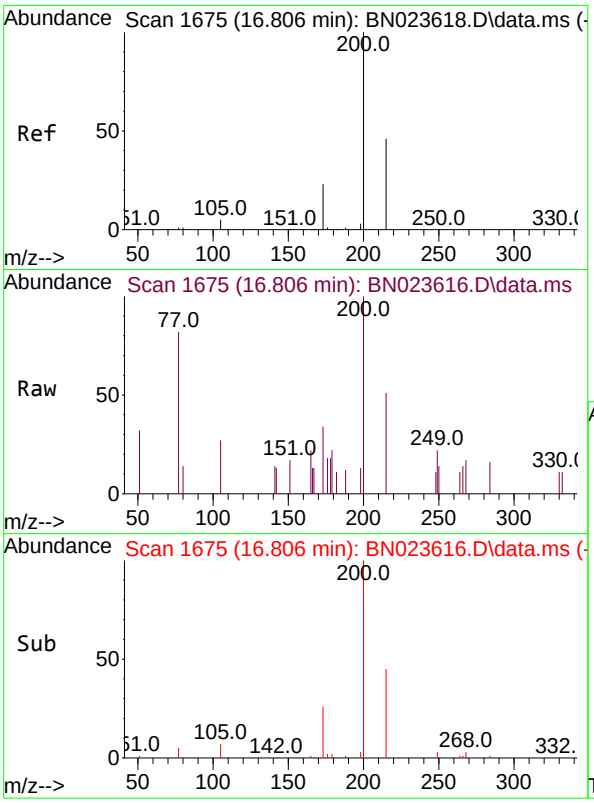


#22
Hexachlorobenzene
Concen: 0.098 ng
RT: 16.645 min Scan# 1662
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:284 Resp: 1114

Ion	Ratio	Lower	Upper
284	100		
142	39.0	31.4	47.2
249	34.2	24.9	37.3



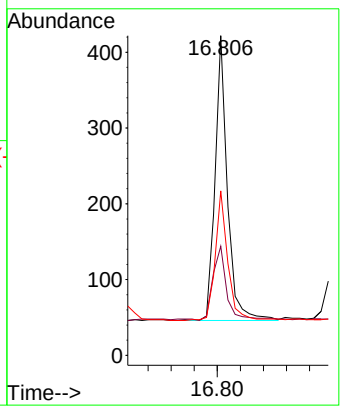


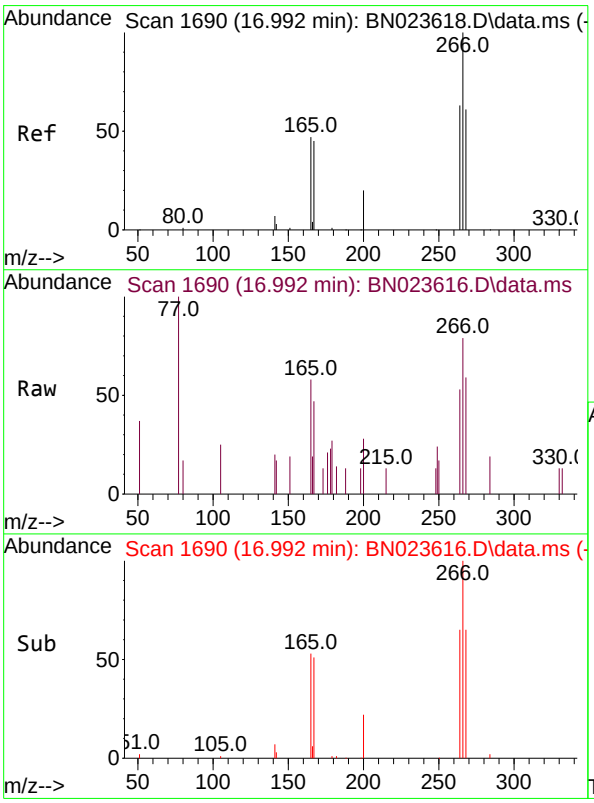
#23
Atrazine
Concen: 0.076 ng
RT: 16.806 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 555

Ion	Ratio	Lower	Upper
200	100		
173	34.1	20.4	30.6#
215	51.4	38.1	57.1

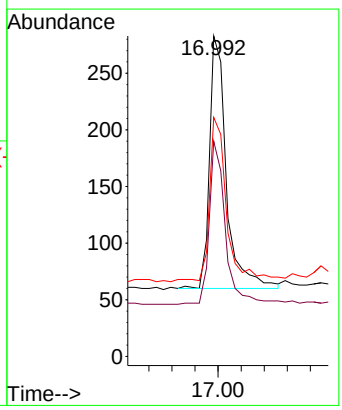


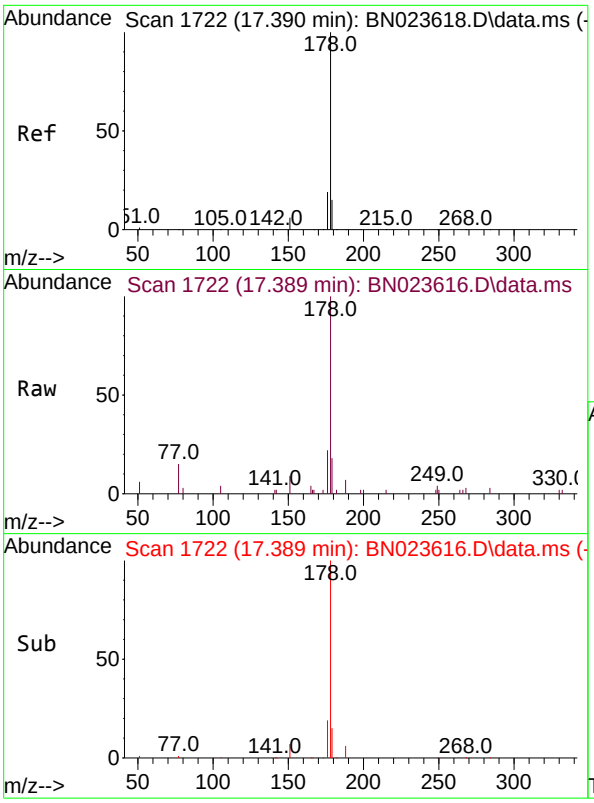


#24
Pentachlorophenol
Concen: 0.108 ng
RT: 16.992 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:266 Resp: 454

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.7	74.5
268	67.0	49.3	73.9



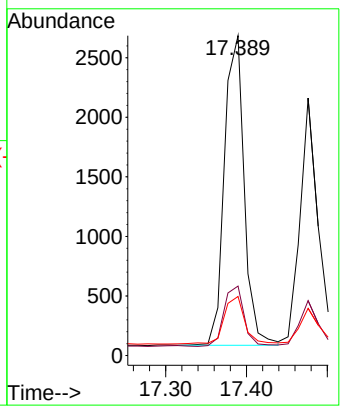


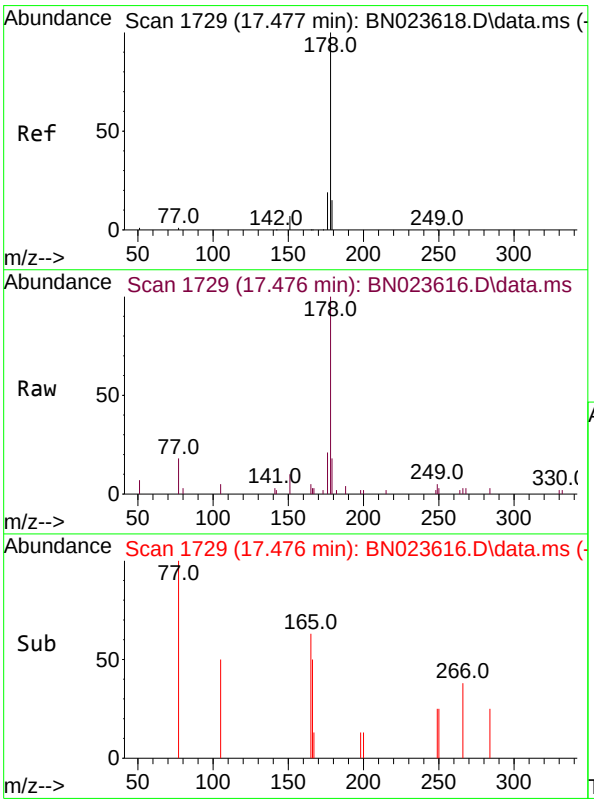
#25
Phenanthrene
Concen: 0.097 ng
RT: 17.389 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 4429

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	16.1	12.5	18.7

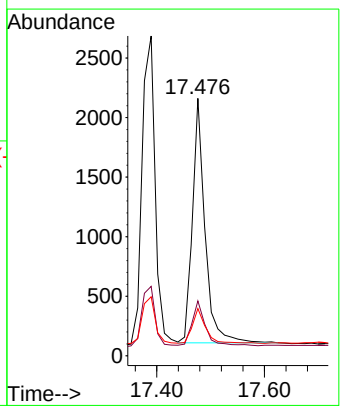


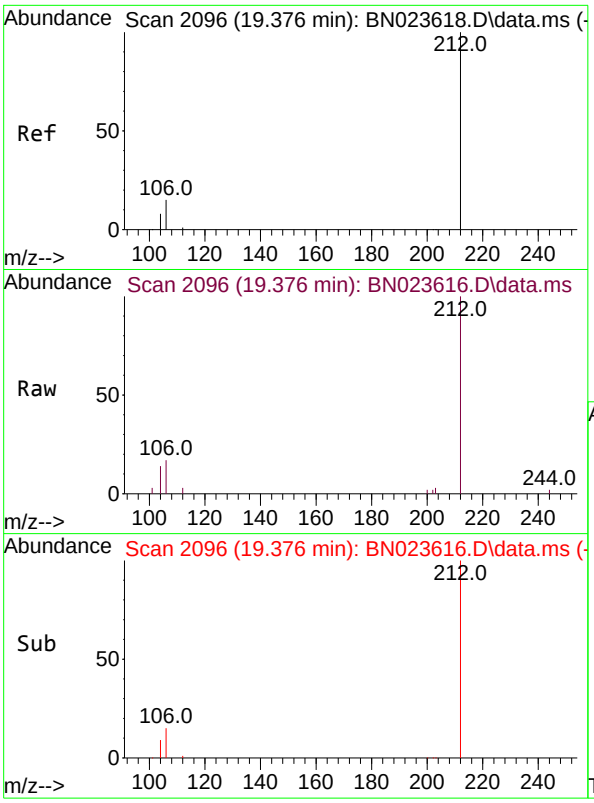


#26
Anthracene
Concen: 0.087 ng
RT: 17.476 min Scan# 1729
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:178 Resp: 3330

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.1	22.7
179	14.9	12.2	18.2



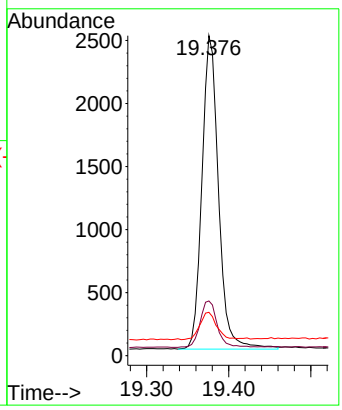


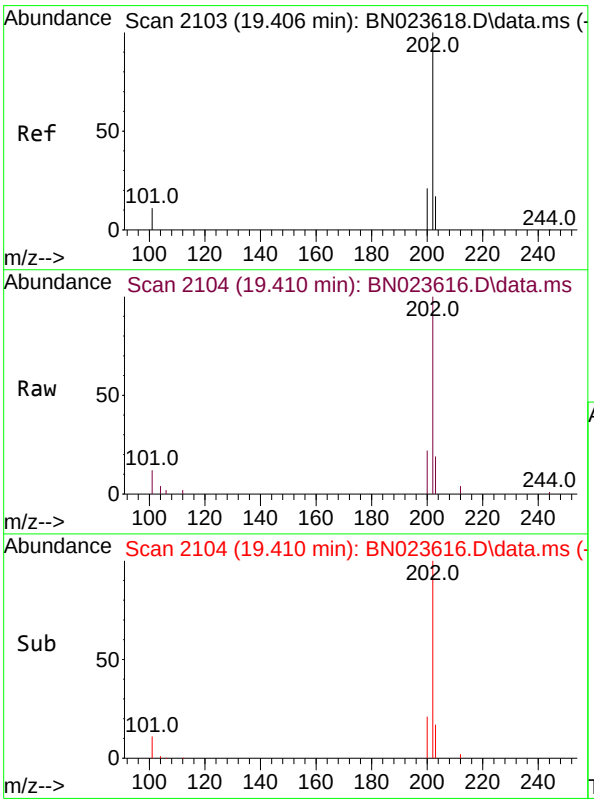
#27
Fluoranthene-d10
Concen: 0.089 ng
RT: 19.376 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3494

Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.4
104	8.8	7.1	10.7

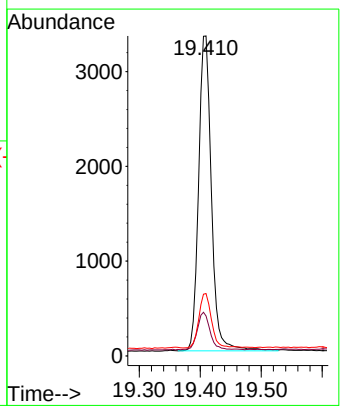


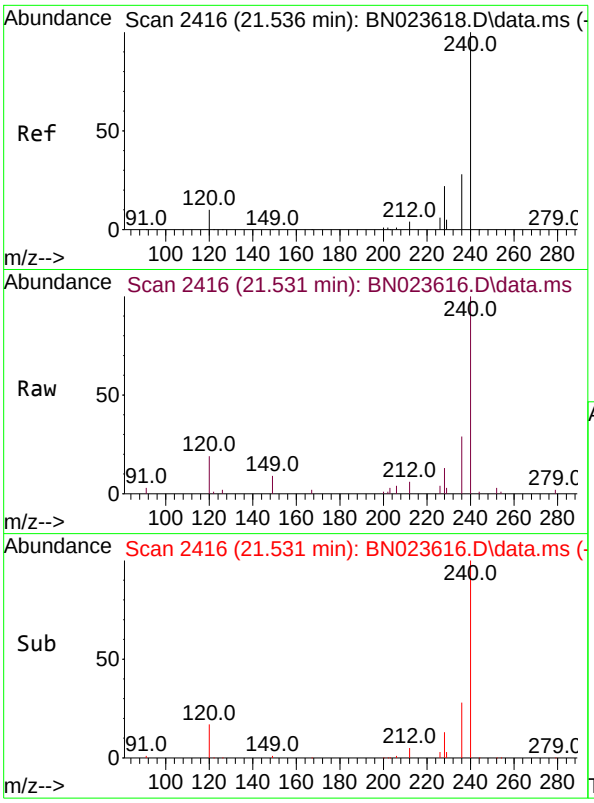


#28
Fluoranthene
Concen: 0.094 ng
RT: 19.410 min Scan# 2104
Delta R.T. 0.004 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:202 Resp: 4826

Ion	Ratio	Lower	Upper
202	100		
101	11.5	9.7	14.5
203	17.3	13.8	20.6



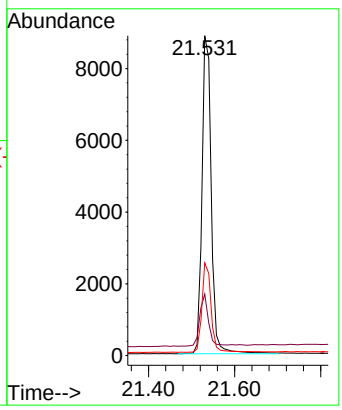


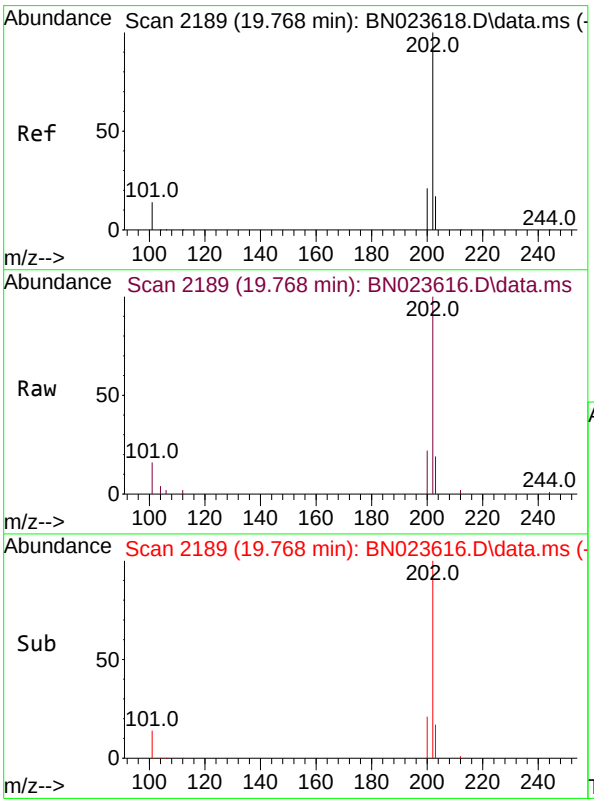
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.531 min Scan# 24
Delta R.T. -0.005 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 13129

Ion	Ratio	Lower	Upper
240	100		
120	19.2	10.6	15.8#
236	29.0	23.0	34.6

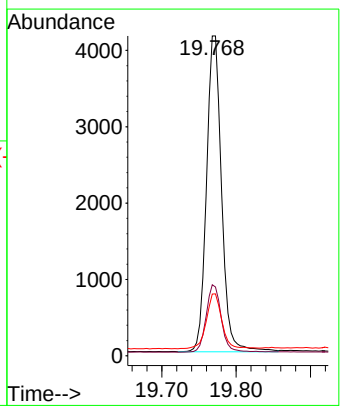


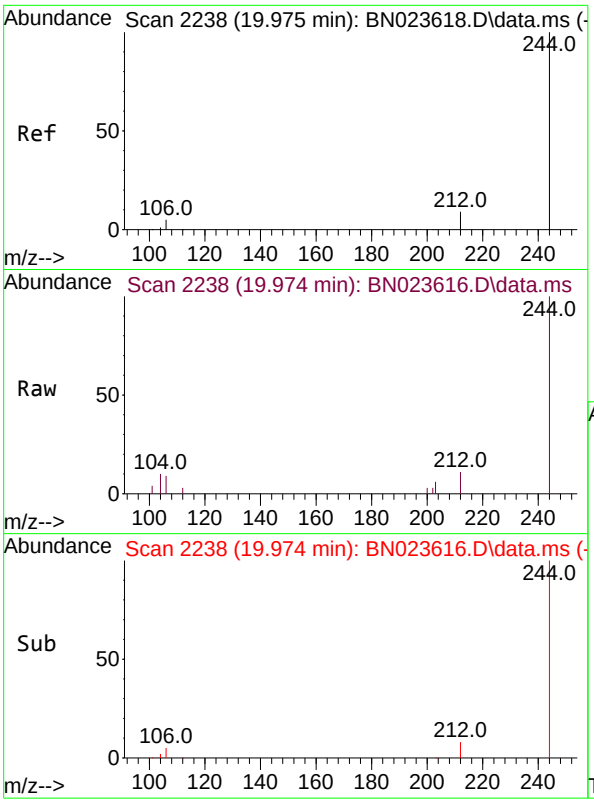


#30
Pyrene
Concen: 0.119 ng
RT: 19.768 min Scan# 2189
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:202 Resp: 5845

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.1	14.2	21.2



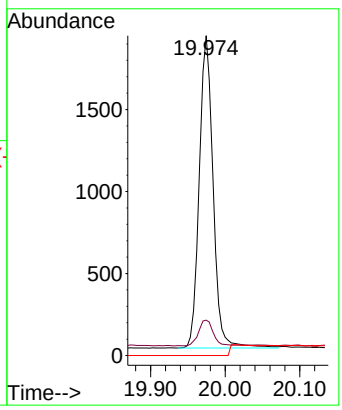


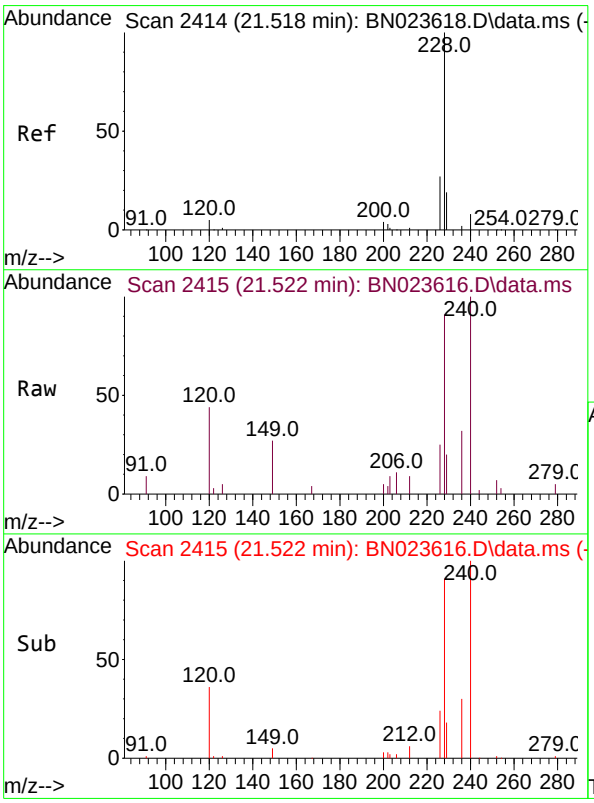
#31
Terphenyl-d14
Concen: 0.105 ng
RT: 19.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 3225

Ion	Ratio	Lower	Upper
244	100		
212	11.1	7.5	11.3
122	0.0	0.0	0.0

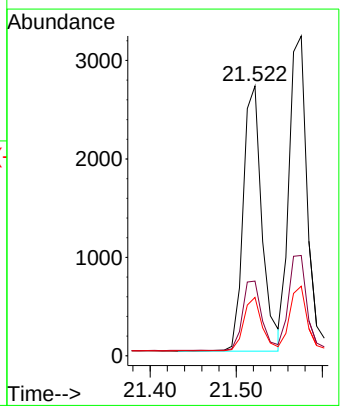


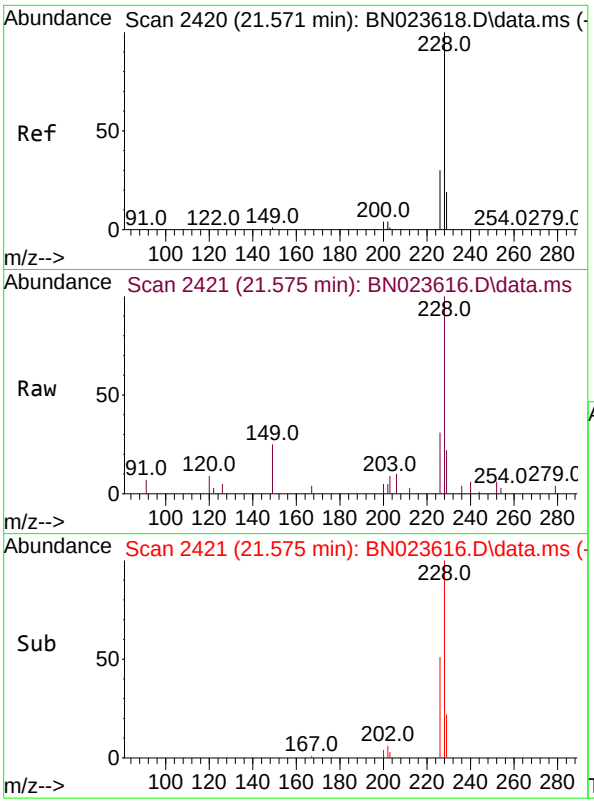


#32
Benzo(a)anthracene
Concen: 0.093 ng
RT: 21.522 min Scan# 2415
Delta R.T. 0.004 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:228 Resp: 4070

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	21.7	15.7	23.5



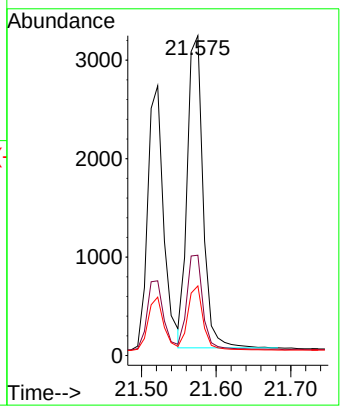


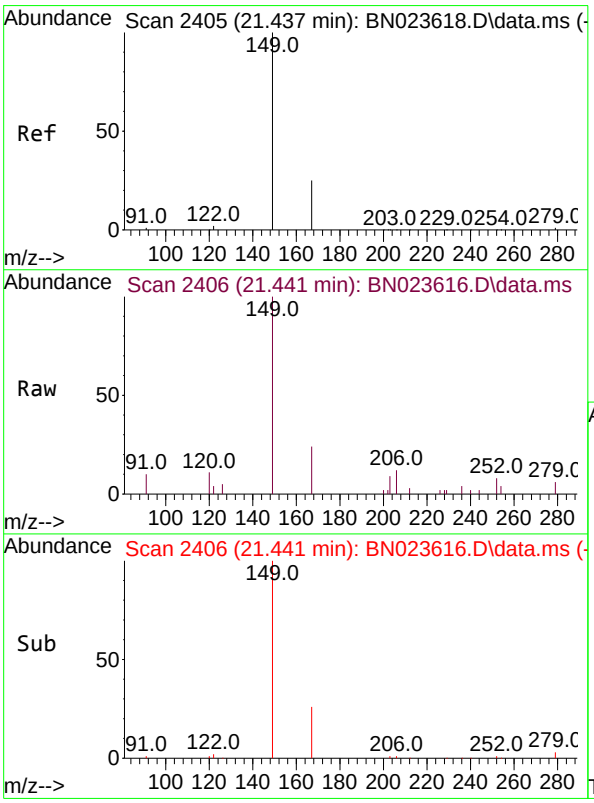
#33
Chrysene
Concen: 0.104 ng
RT: 21.575 min Scan# 24
Delta R.T. 0.004 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 4661

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.4	36.6
229	21.8	15.6	23.4

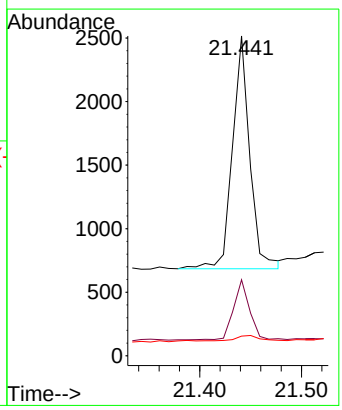


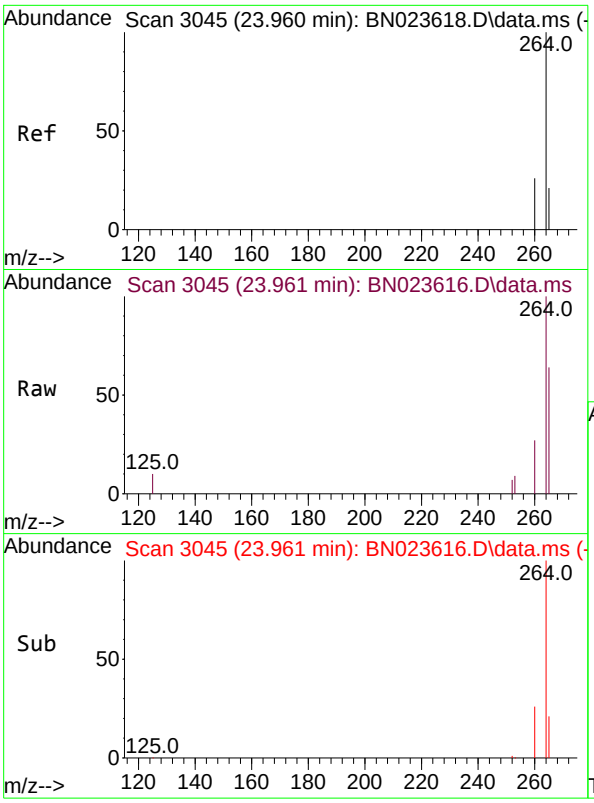


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.081 ng
RT: 21.441 min Scan# 2406
Delta R.T. 0.004 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:149 Resp: 2173

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.6	30.8
279	3.5	2.6	4.0



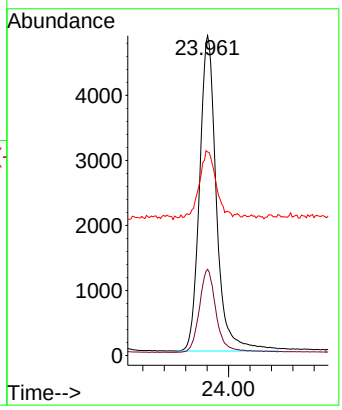


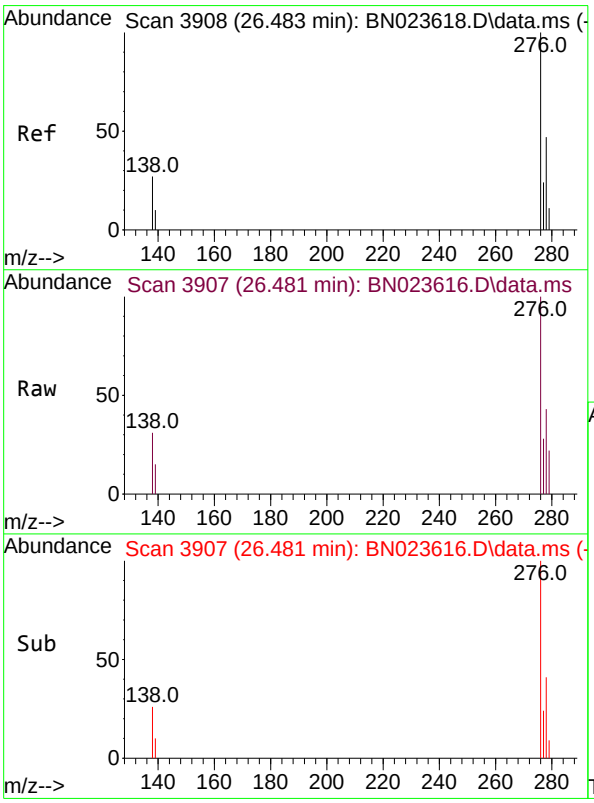
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.961 min Scan# 3
Delta R.T. 0.001 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 10612

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	63.6	56.6	85.0

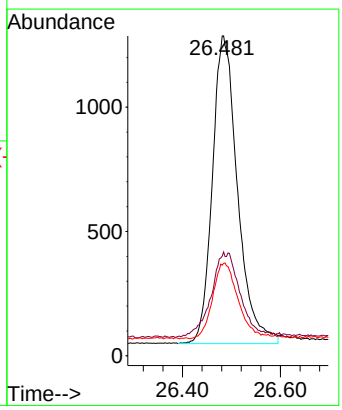


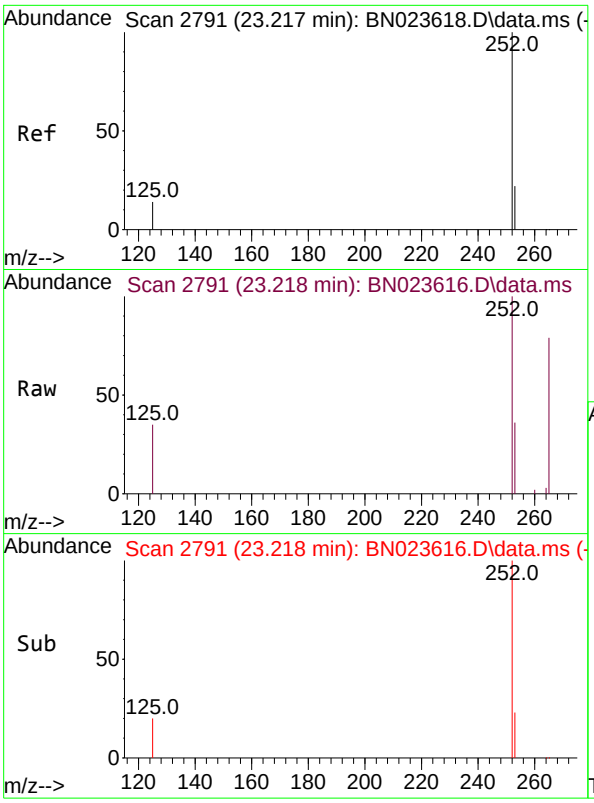


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.111 ng
RT: 26.481 min Scan# 3907
Delta R.T. -0.002 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:276 Resp: 4415

Ion	Ratio	Lower	Upper
276	100		
138	15.3	23.8	35.8#
277	25.0	19.8	29.6



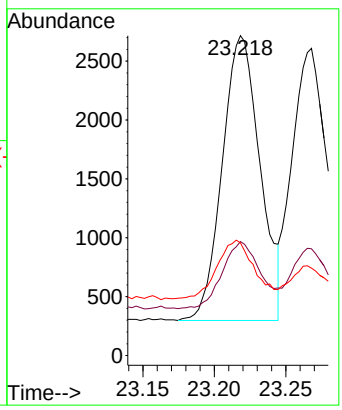


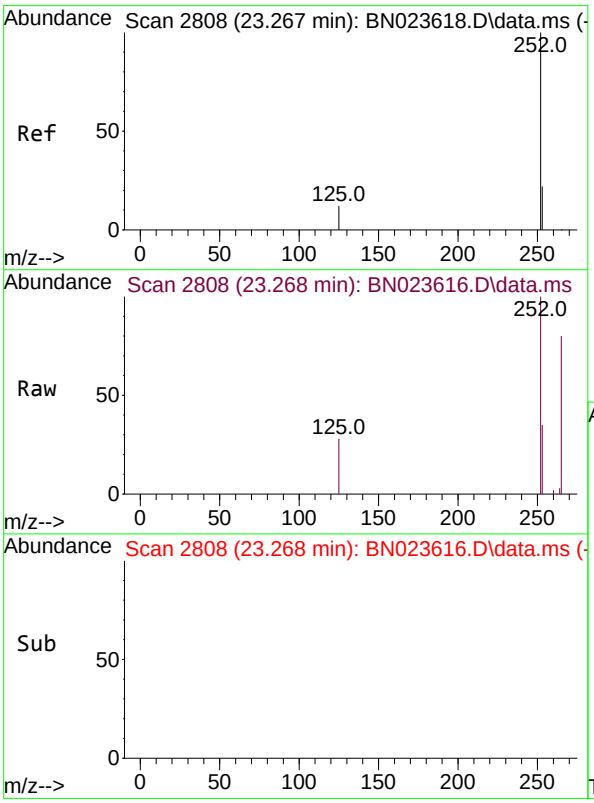
#37
Benzo(b)fluoranthene
Concen: 0.109 ng
RT: 23.218 min Scan# 2
Delta R.T. 0.001 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4458

Ion	Ratio	Lower	Upper
252	100		
253	35.6	20.0	30.0#
125	35.2	14.4	21.6#

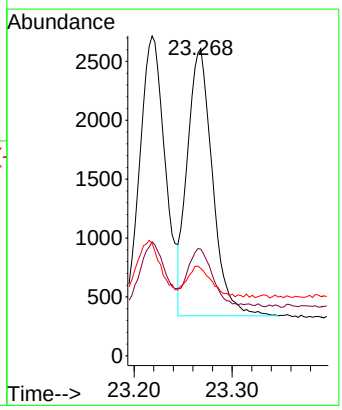


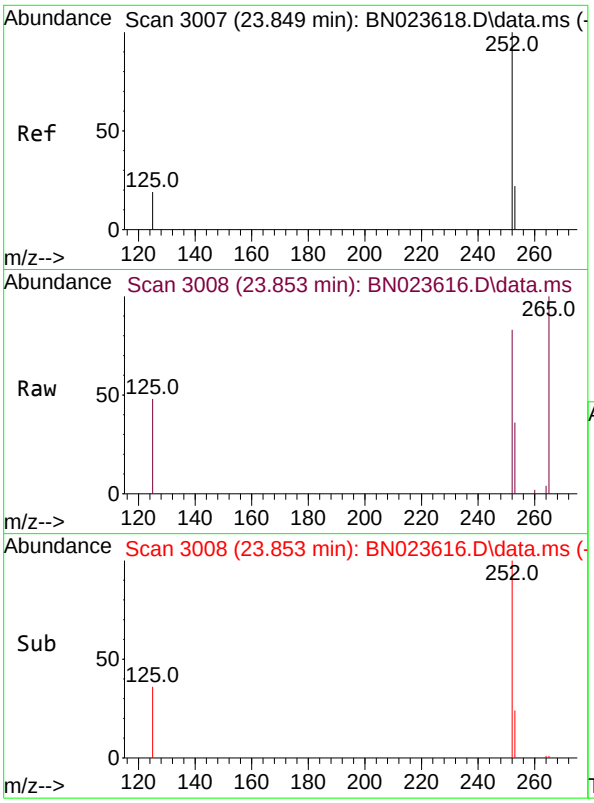


#38
Benzo(k)fluoranthene
Concen: 0.101 ng
RT: 23.268 min Scan# 2808
Delta R.T. 0.001 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:252 Resp: 4046

Ion	Ratio	Lower	Upper
252	100		
253	34.8	20.2	30.2#
125	28.4	13.0	19.4#



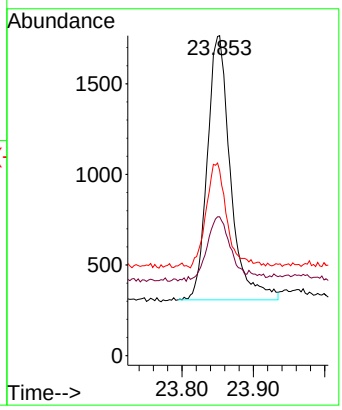


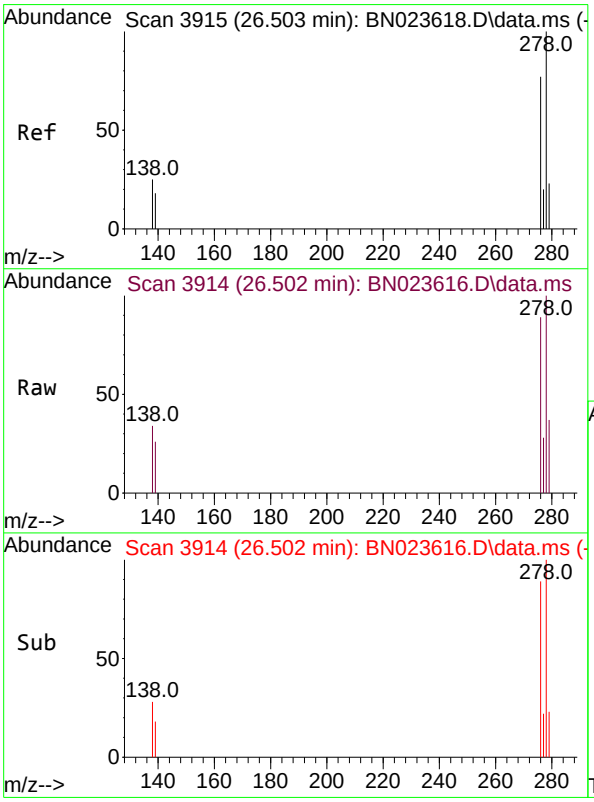
#39
Benzo(a)pyrene
Concen: 0.106 ng
RT: 23.853 min Scan# 3
Delta R.T. 0.004 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 3283

Ion	Ratio	Lower	Upper
252	100		
253	43.4	22.3	33.5#
125	57.8	21.2	31.8#

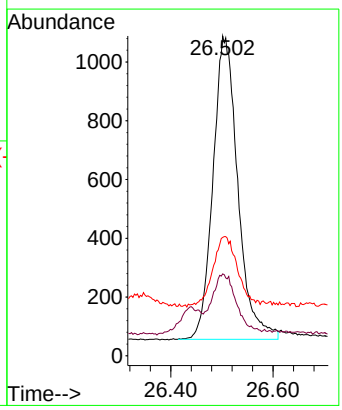


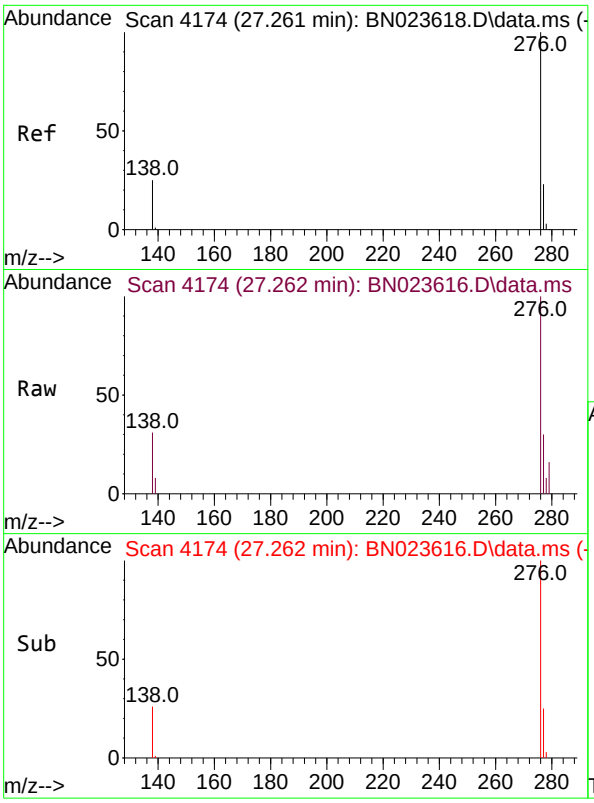


#40
Dibenzo(a,h)anthracene
Concen: 0.115 ng
RT: 26.502 min Scan# 3914
Delta R.T. -0.002 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Tgt Ion:278 Resp: 3481

Ion	Ratio	Lower	Upper
278	100		
139	25.6	16.8	25.2#
279	37.0	21.5	32.3#





#41
Benzo(g,h,i)perylene
Concen: 0.103 ng
RT: 27.262 min Scan# 41
Delta R.T. 0.001 min
Lab File: BN023616.D
Acq: 11 Jan 2023 17:44

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 3591

Ion	Ratio	Lower	Upper
276	100		
277	30.3	19.6	29.4#
138	31.4	21.5	32.3