Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082922\
Data File : BN021423.D
Acq On : 29 Aug 2022 14:58
Operator : CG/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 29 15:36:39 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 29 14:52:01 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.076	152	4987	0.400	ng		0.00
7) Naphthalene-d8	10.909	136	14199	0.400	ng		0.00
13) Acenaphthene-d10	14.728	164	8089	0.400	ng		0.00
19) Phenanthrene-d10	17.480	188	15465	0.400	ng		0.00
29) Chrysene-d12	21.673	240	14129	0.400	ng		0.00
35) Perylene-d12	24.197	264	9257	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.599	112	49044	3.634	ng		0.00
5) Phenol-d6	7.224	99	65887	3.895	ng		0.00
8) Nitrobenzene-d5	9.254	82	52487	4.884	ng		0.00
11) 2-Methylnaphthalene-d10	12.493	152	166600	6.947	ng		0.00
14) 2,4,6-Tribromophenol	16.218	330	16771	4.527	ng		0.00
15) 2-Fluorobiphenyl	13.360	172	166441	4.600	ng		0.00
27) Fluoranthene-d10	19.510	212	218002	4.718	ng		0.00
31) Terphenyl-d14	20.097	244	146925	4.922	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.410	88	28040	4.053	ng	#	89
3) n-Nitrosodimethylamine	3.735	42	27877	4.213	ng	#	96
6) bis(2-Chloroethyl)ether	7.491	93	70837	4.186	ng		98
9) Naphthalene	10.962	128	203621	4.361	ng		98
10) Hexachlorobutadiene	11.240	225	34586	4.491	ng	#	100
12) 2-Methylnaphthalene	12.187	142	40186	5.057	ng	#	85
16) Acenaphthylene	14.450	152	210056	5.179	ng		100
17) Acenaphthene	14.792	154	135283	4.807	ng		97
18) Fluorene	15.776	166	165939	4.706	ng		100
20) 4,6-Dinitro-2-methylph...	15.690	198	4	0.197	ng	#	78
21) 4-Bromophenyl-phenylether	16.670	248	50978	4.815	ng		98
22) Hexachlorobenzene	16.782	284	57772	4.701	ng		99
23) Atrazine	16.926	200	36608	5.469	ng		96
24) Pentachlorophenol	17.121	266	20670	4.869	ng		99
25) Phenanthrene	17.521	178	269495	4.765	ng		100
26) Anthracene	17.613	178	241986	5.207	ng		99
28) Fluoranthene	19.539	202	297872	4.785	ng		100
30) Pyrene	19.902	202	353152	4.964	ng		93
32) Benzo(a)anthracene	21.655	228	268319	5.016	ng		100
33) Chrysene	21.709	228	277115	4.753	ng		99
34) Bis(2-ethylhexyl)phtha...	21.574	149	113977	4.420	ng		99
36) Indeno(1,2,3-cd)pyrene	26.860	276	231777	4.923	ng		99
37) Benzo(b)fluoranthene	23.419	252	236195	5.786	ng	#	93
38) Benzo(k)fluoranthene	23.471	252	242078	5.739	ng		95
39) Benzo(a)pyrene	24.083	252	179618	5.421	ng	#	89
40) Dibenzo(a,h)anthracene	26.881	278	186932	4.826	ng		93
41) Benzo(g,h,i)perylene	27.676	276	192821	4.729	ng		98

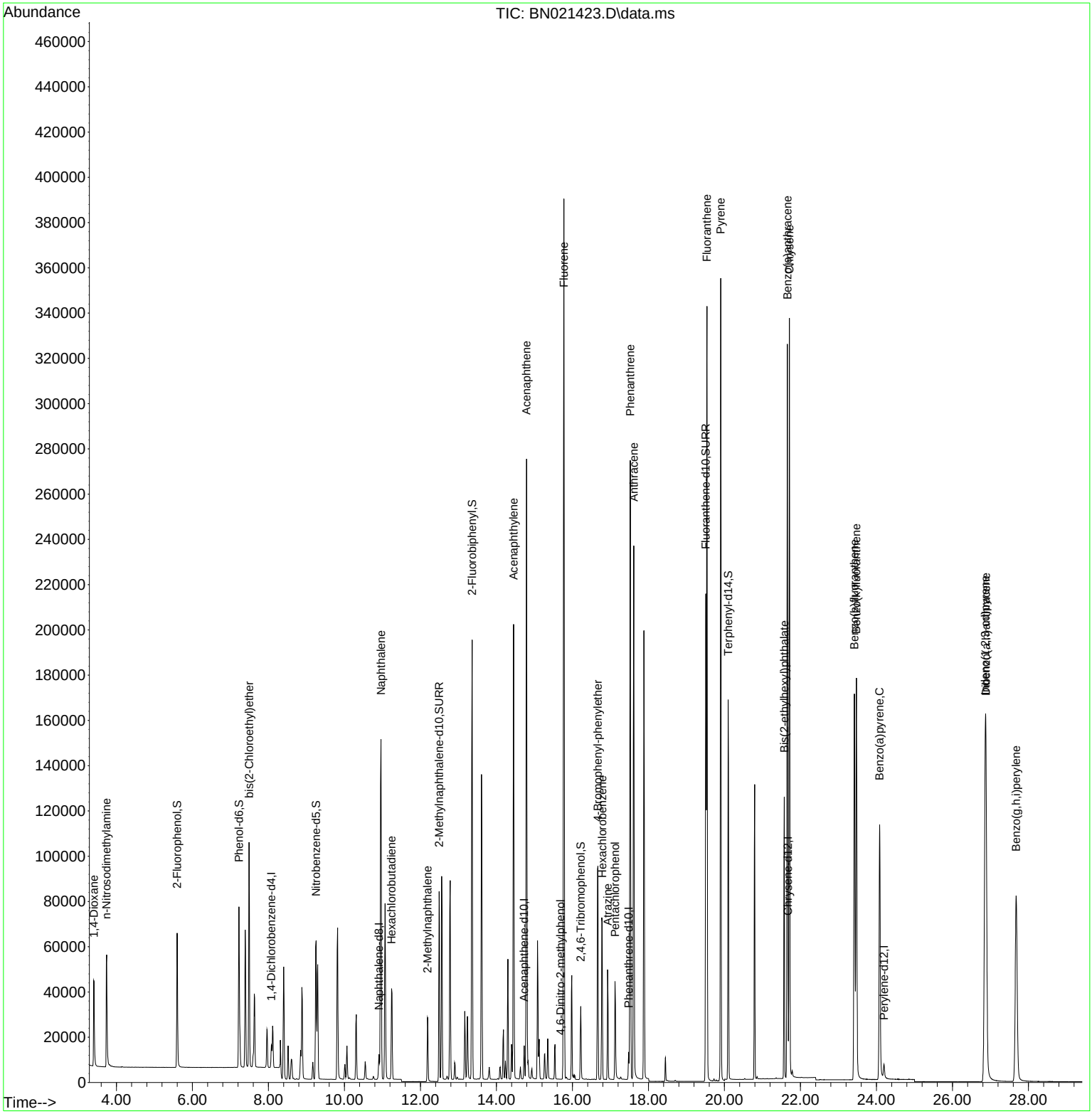
(#) = qualifier out of range (m) = manual integration (+) = signals summed

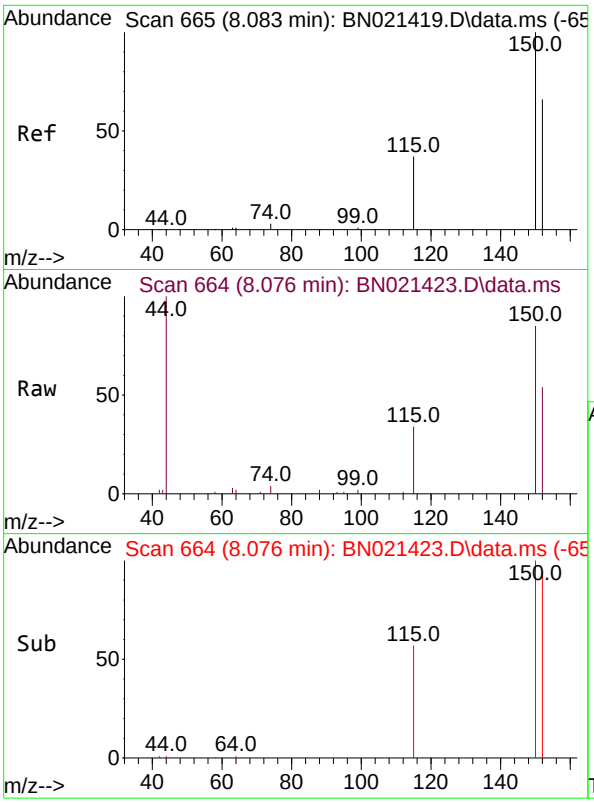
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082922\
Data File : BN021423.D
Acq On : 29 Aug 2022 14:58
Operator : CG/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 29 15:36:39 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 29 14:52:01 2022
Response via : Initial Calibration



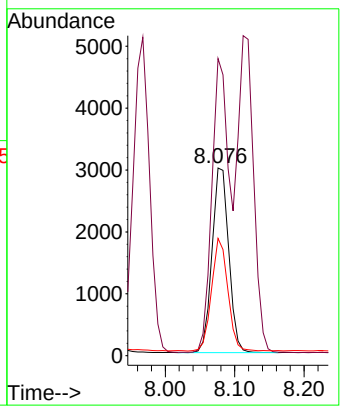


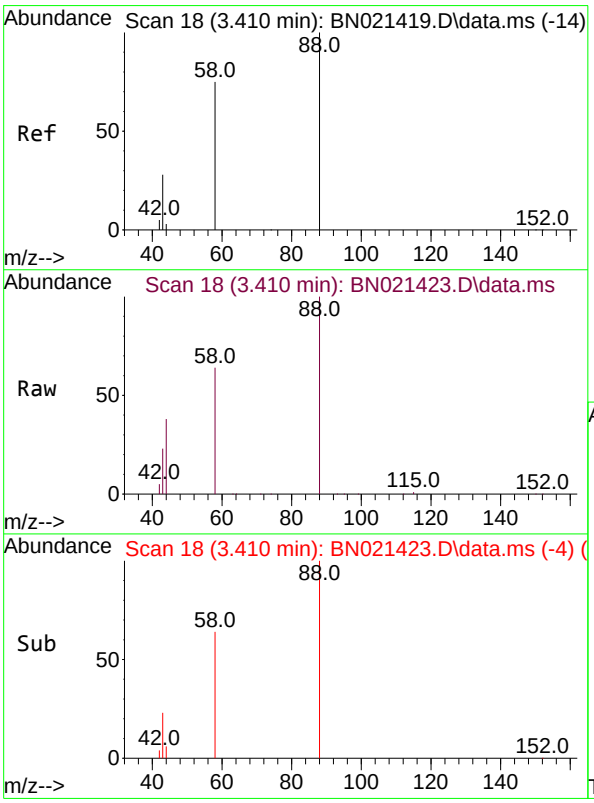
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.076 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 4987

Ion	Ratio	Lower	Upper
152	100		
150	158.3	121.4	182.0
115	62.5	48.6	72.8

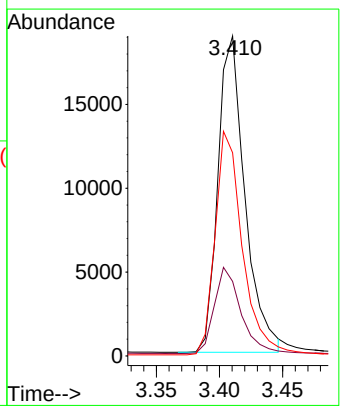


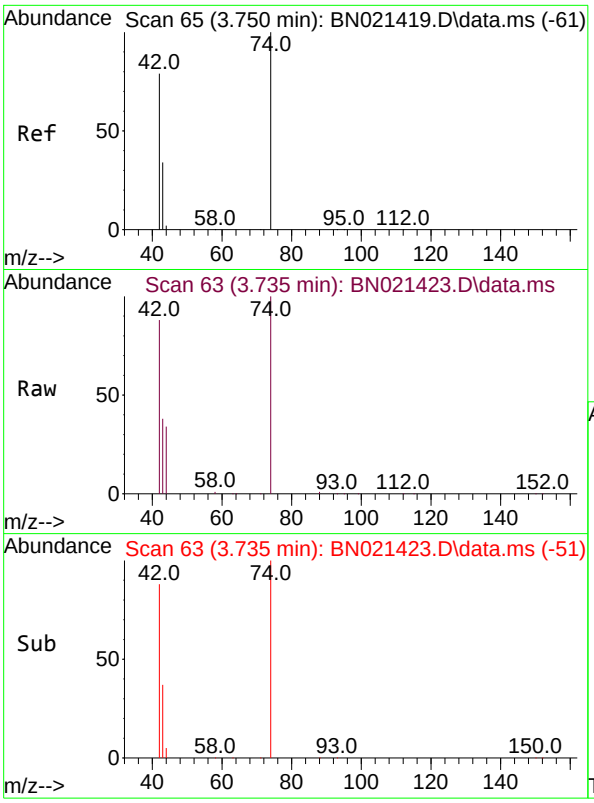


#2
1,4-Dioxane
Concen: 4.053 ng
RT: 3.410 min Scan# 18
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion: 88 Resp: 28040

Ion	Ratio	Lower	Upper
88	100		
43	26.7	35.8	53.8#
58	70.8	57.1	85.7



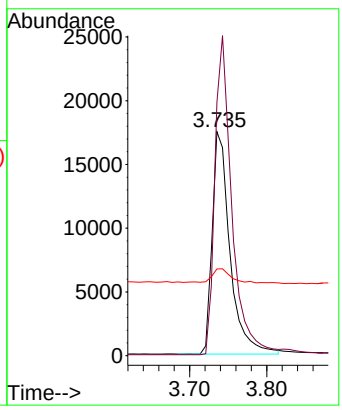


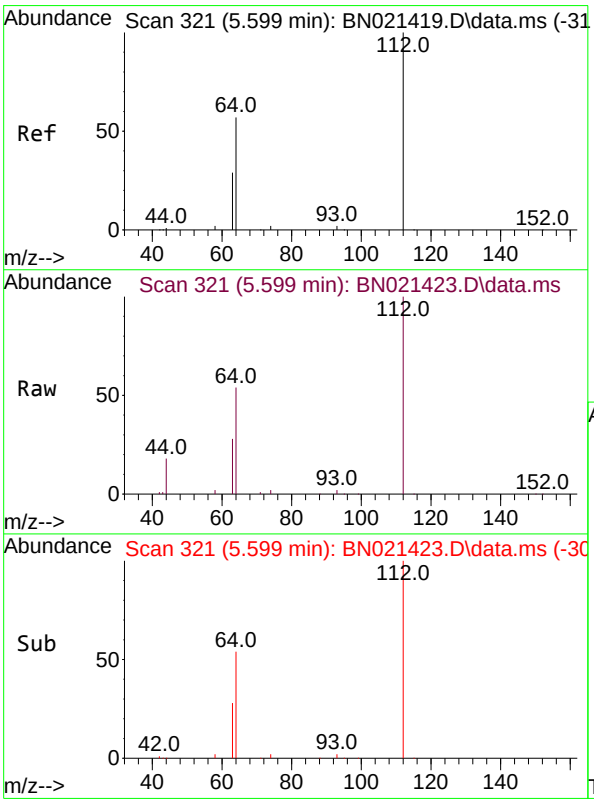
#3
n-Nitrosodimethylamine
Concen: 4.213 ng
RT: 3.735 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 27877

Ion	Ratio	Lower	Upper
42	100		
74	137.5	113.0	169.6
44	6.5	10.5	15.7#

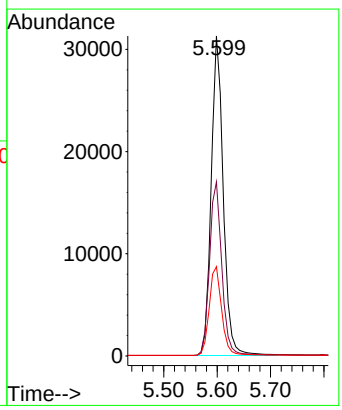


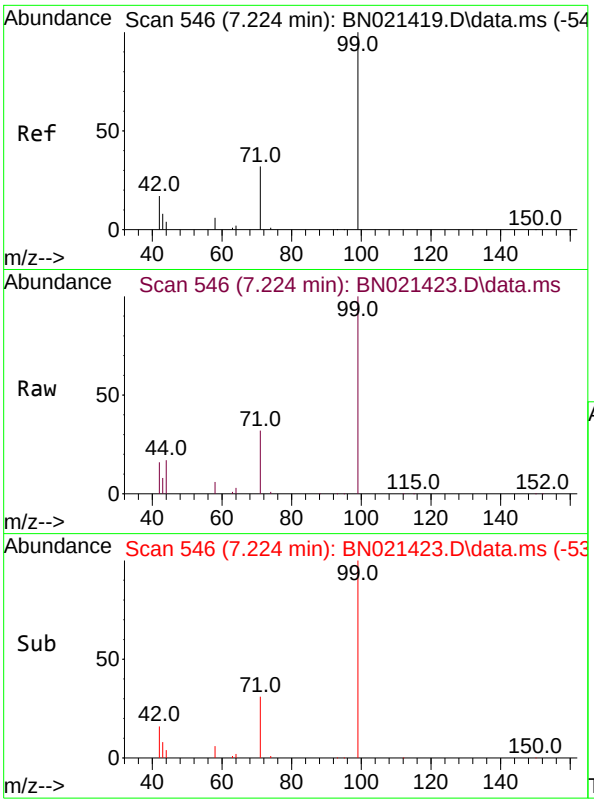


#4
2-Fluorophenol
Concen: 3.634 ng
RT: 5.599 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:112 Resp: 49044

Ion	Ratio	Lower	Upper
112	100		
64	55.5	43.5	65.3
63	28.8	22.6	34.0



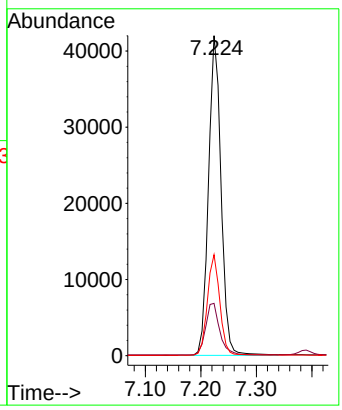


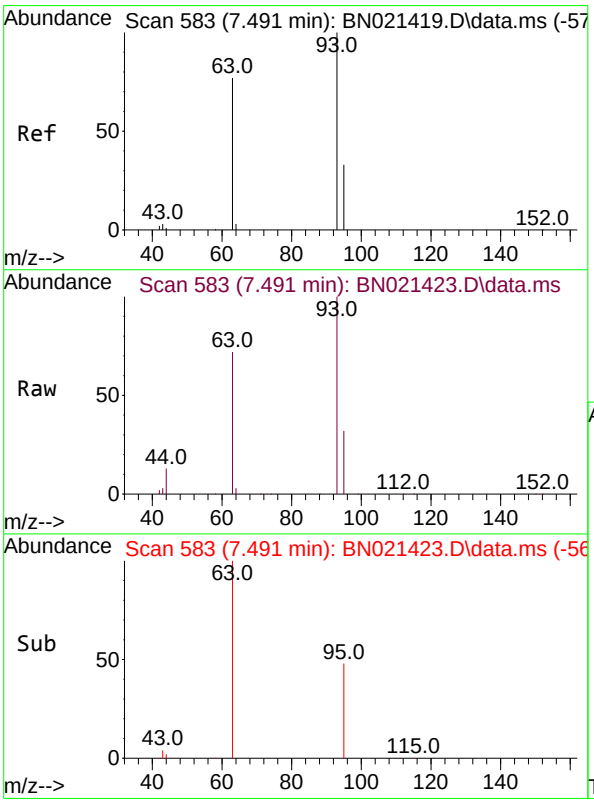
#5
Phenol-d6
Concen: 3.895 ng
RT: 7.224 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 65887

Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.5	23.3
71	31.2	24.2	36.2

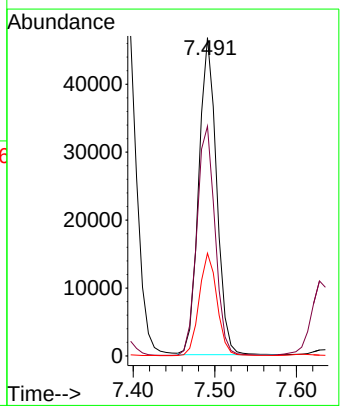


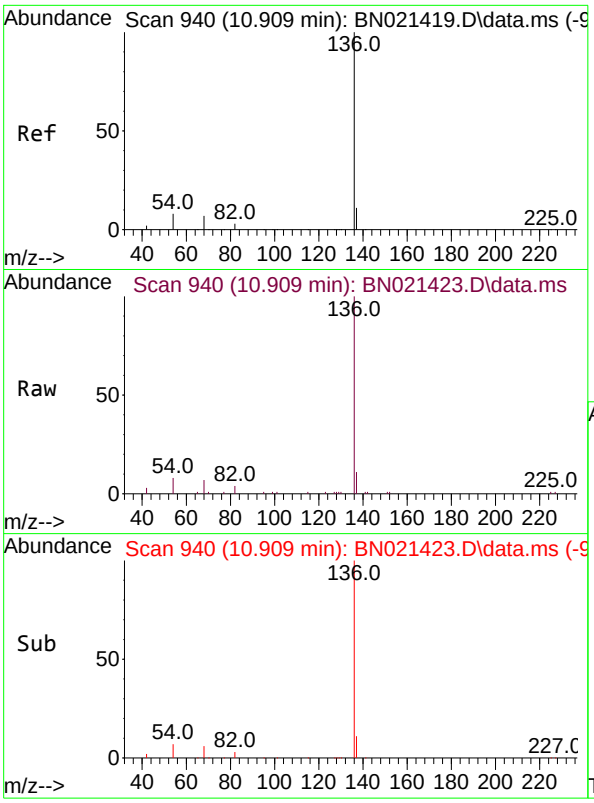


#6
bis(2-Chloroethyl)ether
Concen: 4.186 ng
RT: 7.491 min Scan# 583
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion: 93 Resp: 70837

Ion	Ratio	Lower	Upper
93	100		
63	74.2	57.8	86.8
95	32.4	25.9	38.9



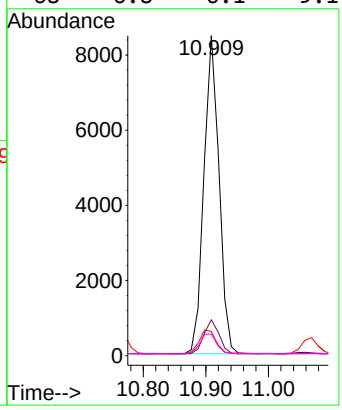


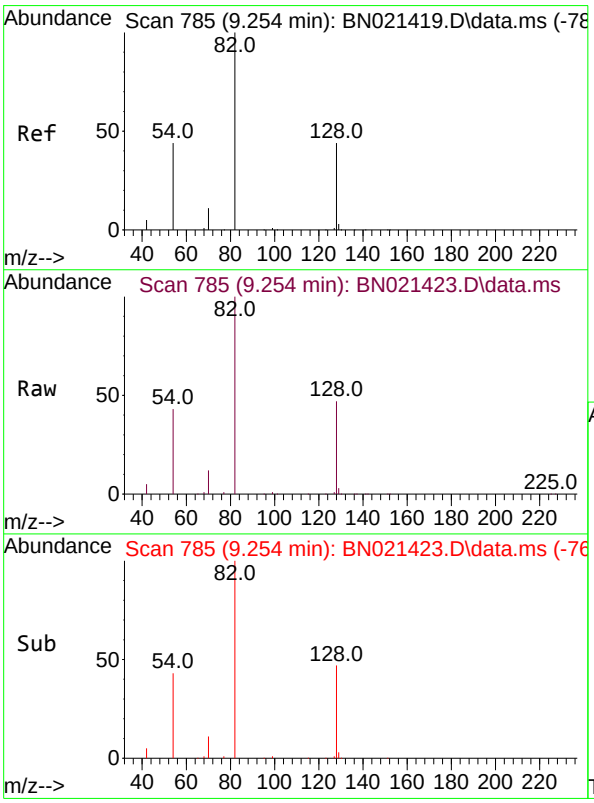
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.909 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 14199

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.3	13.9
54	7.6	6.9	10.3
68	6.8	6.1	9.1

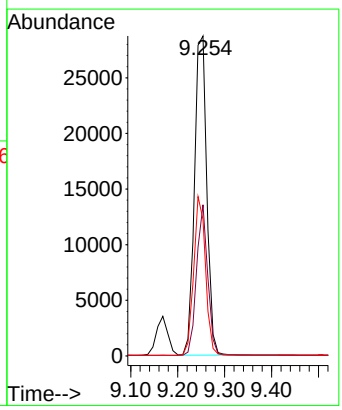


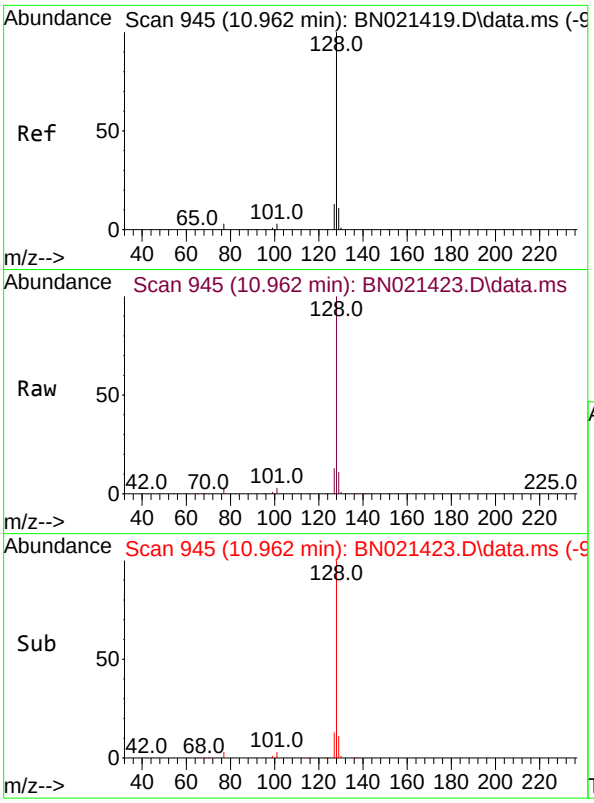


#8
Nitrobenzene-d5
Concen: 4.884 ng
RT: 9.254 min Scan# 785
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion: 82 Resp: 52487

Ion	Ratio	Lower	Upper
82	100		
128	47.2	30.9	46.3#
54	42.7	42.7	64.1#



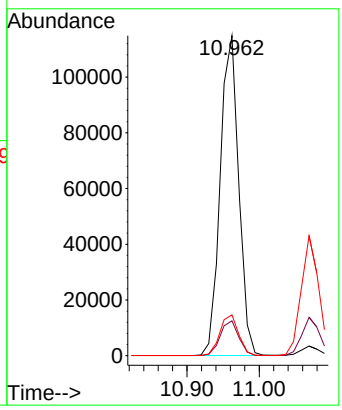


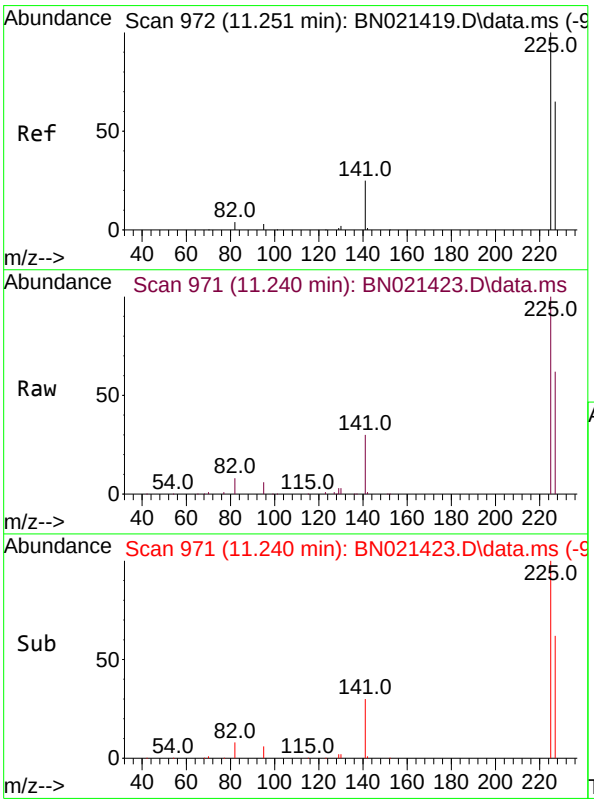
#9
Naphthalene
Concen: 4.361 ng
RT: 10.962 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 203621

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.3	13.9
127	12.7	11.0	16.4

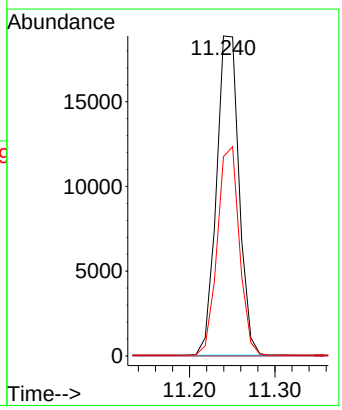


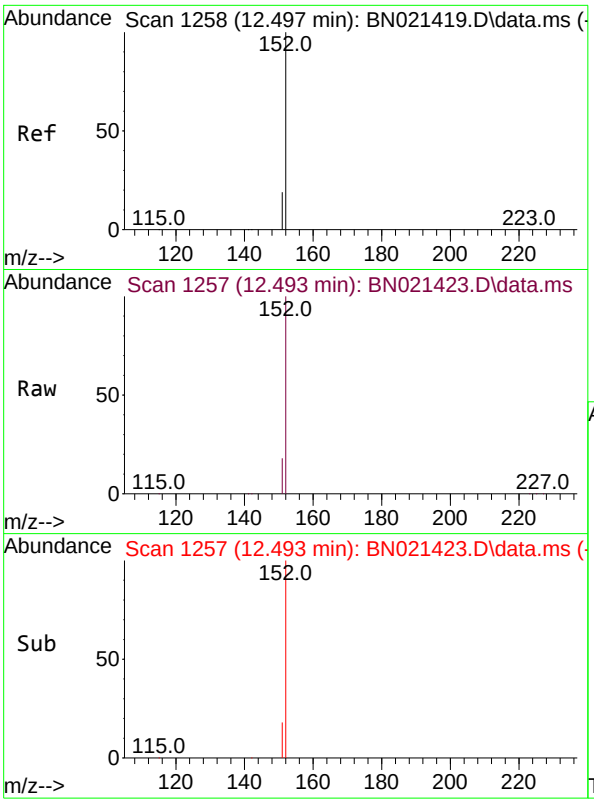


#10
Hexachlorobutadiene
Concen: 4.491 ng
RT: 11.240 min Scan# 971
Delta R.T. -0.011 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:225 Resp: 34586

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.2	76.8



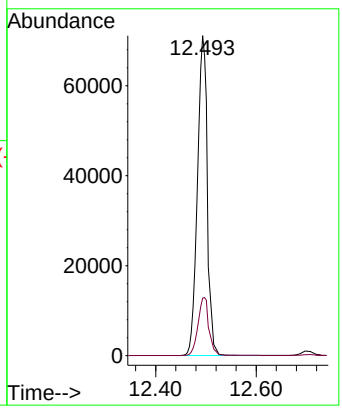


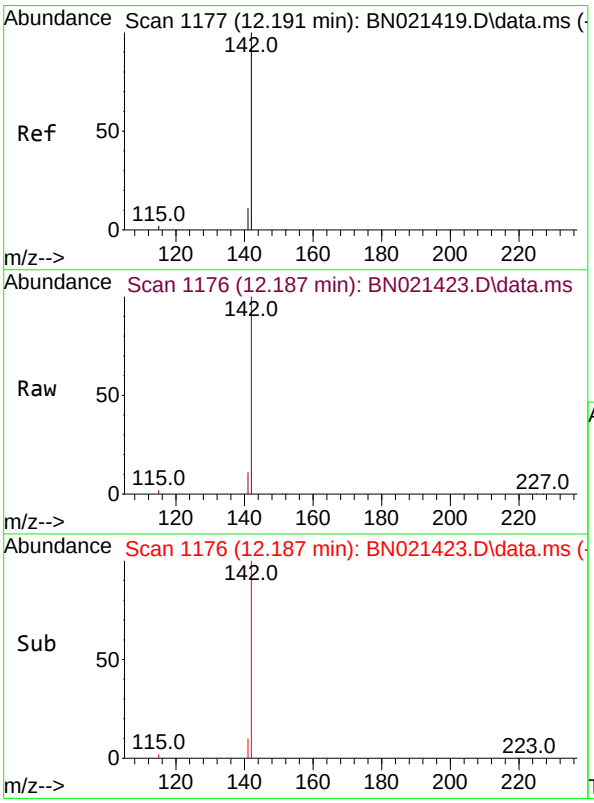
#11
2-Methylnaphthalene-d10
Concen: 6.947 ng
RT: 12.493 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 166600

Ion	Ratio	Lower	Upper
152	100		
151	17.6	14.5	21.7

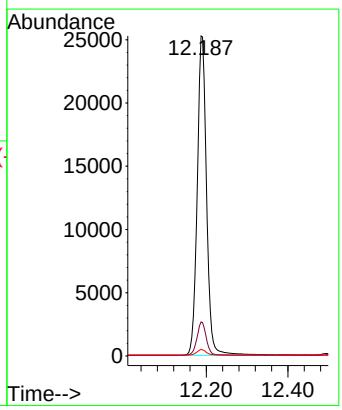


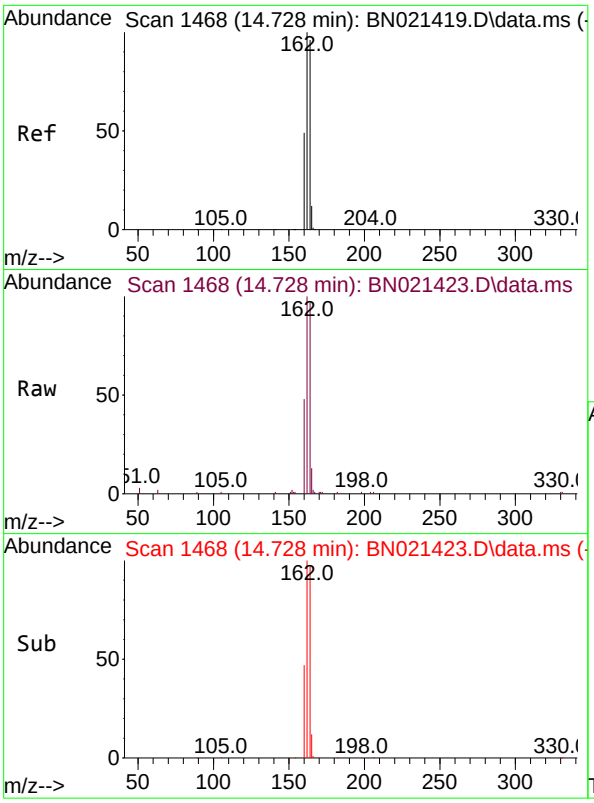


#12
2-Methylnaphthalene
Concen: 5.057 ng
RT: 12.187 min Scan# 1176
Delta R.T. -0.004 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:142 Resp: 40186

Ion	Ratio	Lower	Upper
142	100		
141	10.6	12.2	18.2#
115	2.1	7.9	11.9#



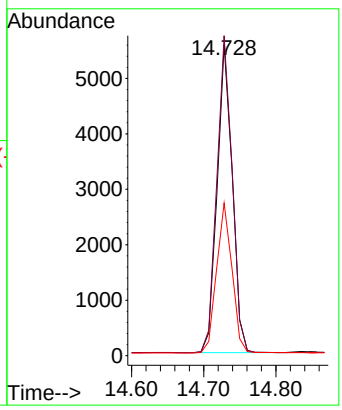


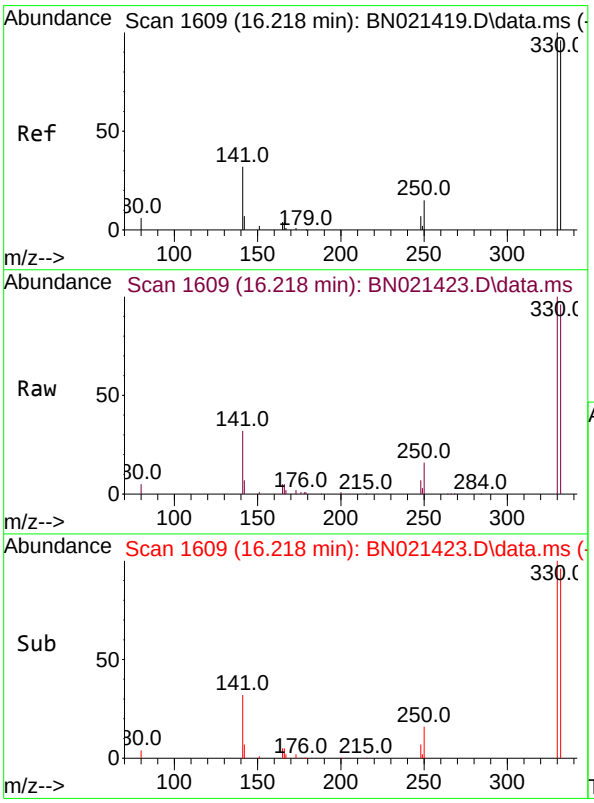
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.728 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 8089

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.4
160	49.1	39.5	59.3

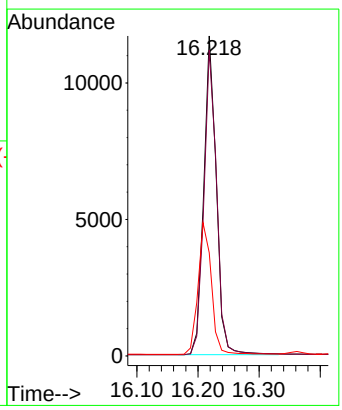


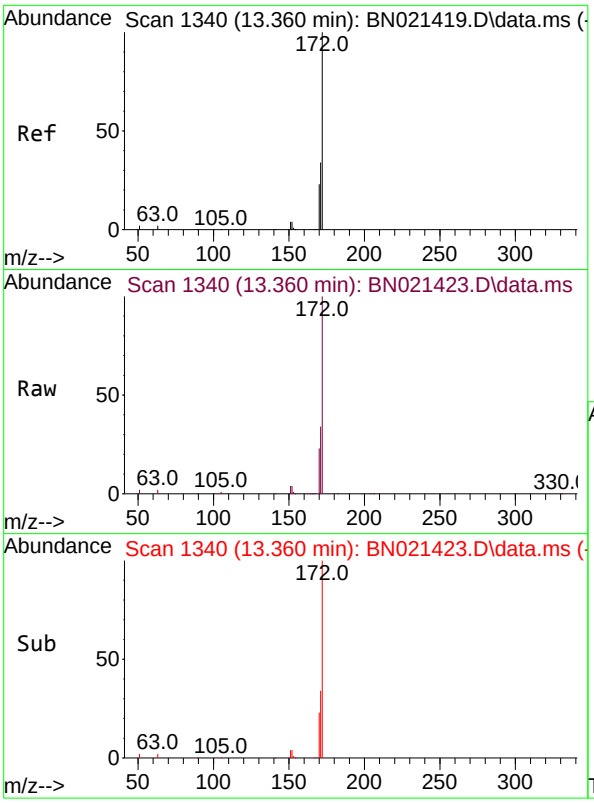


#14
2,4,6-Tribromophenol
Concen: 4.527 ng
RT: 16.218 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:330 Resp: 16771

Ion	Ratio	Lower	Upper
330	100		
332	96.8	79.3	118.9
141	43.8	37.1	55.7



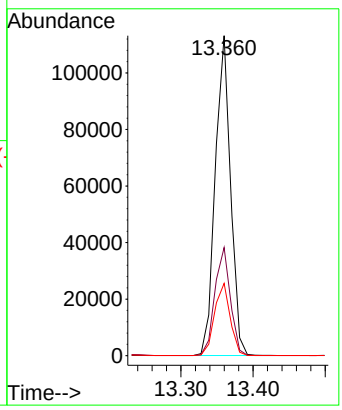


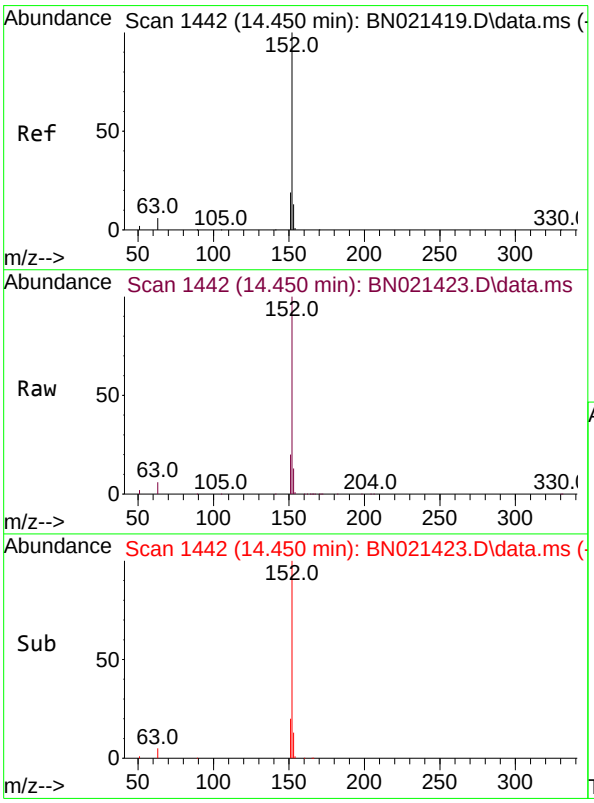
#15
2-Fluorobiphenyl
Concen: 4.600 ng
RT: 13.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 166441

Ion	Ratio	Lower	Upper
172	100		
171	33.8	27.8	41.6
170	22.6	18.6	28.0

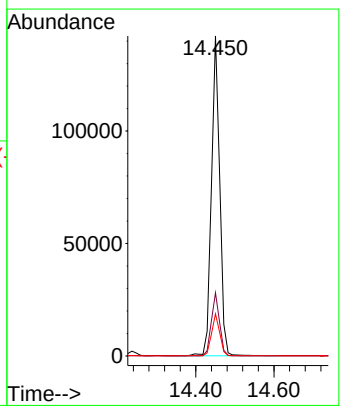


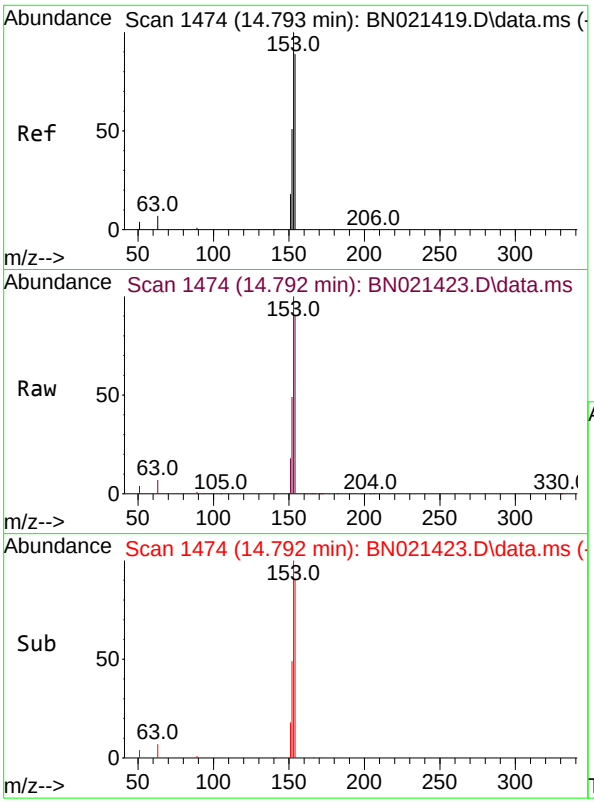


#16
Acenaphthylene
Concen: 5.179 ng
RT: 14.450 min Scan# 1442
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:152 Resp: 210056

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.4	23.2
153	13.0	10.3	15.5



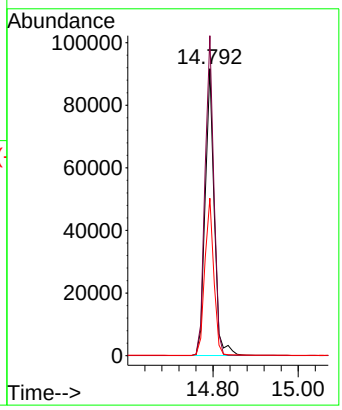


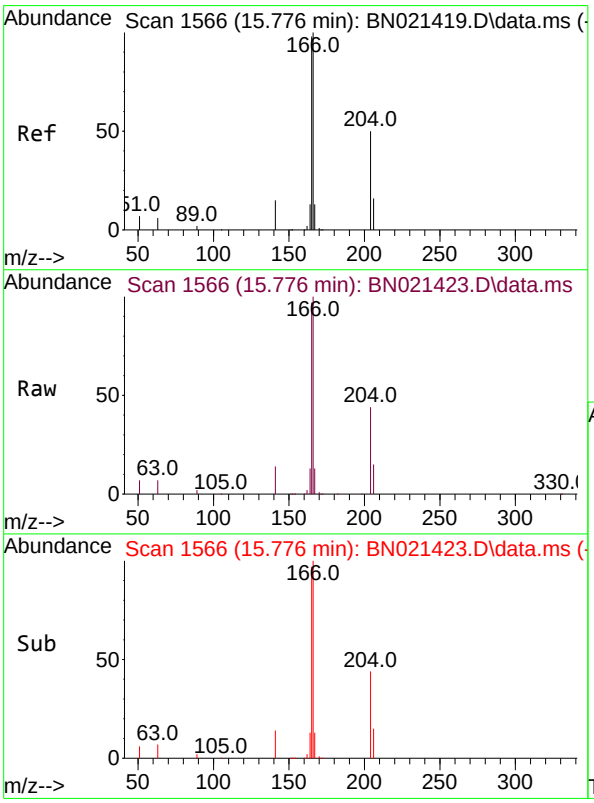
#17
Acenaphthene
Concen: 4.807 ng
RT: 14.792 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 135283

Ion	Ratio	Lower	Upper
154	100		
153	108.7	89.5	134.3
152	54.2	45.5	68.3

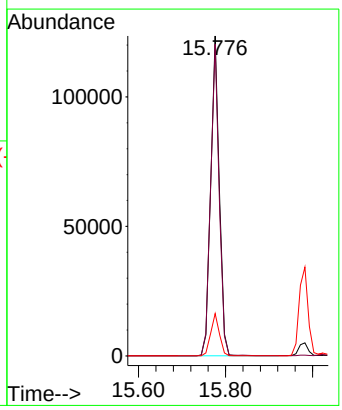


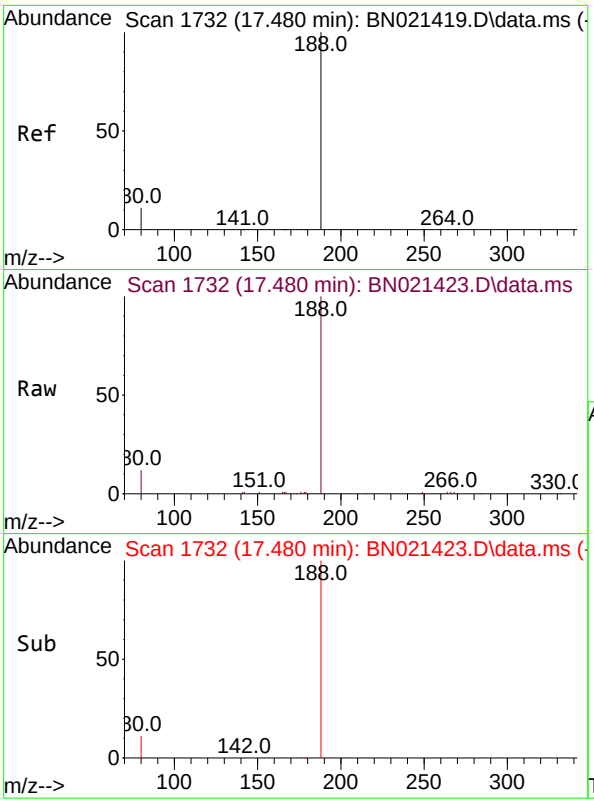


#18
Fluorene
Concen: 4.706 ng
RT: 15.776 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:166 Resp: 165939

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.7	118.1
167	13.5	10.6	16.0



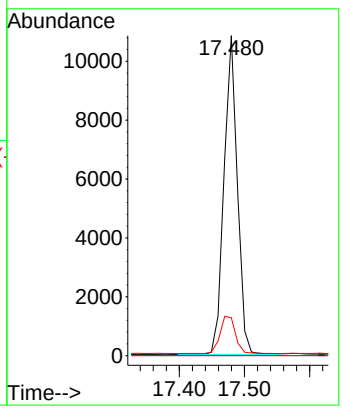


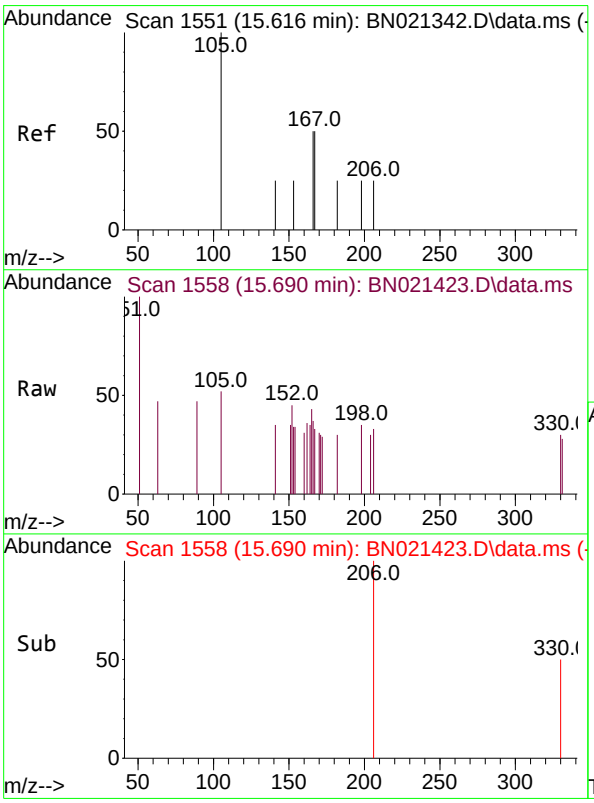
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.480 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 15465

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	9.5	14.3

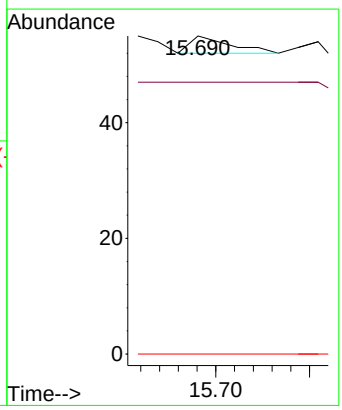


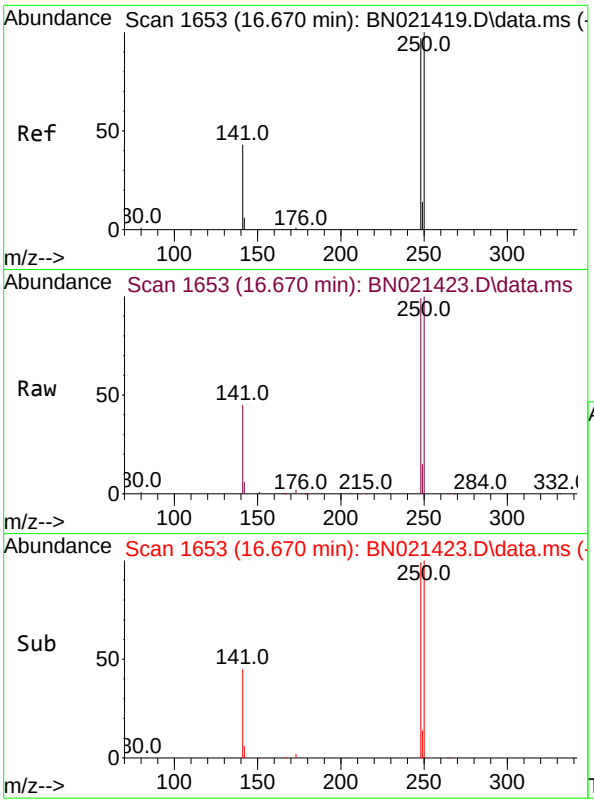


#20
4,6-Dinitro-2-methylphenol
Concen: 0.197 ng
RT: 15.690 min Scan# 1558
Delta R.T. 0.064 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:198 Resp: 4

Ion	Ratio	Lower	Upper
198	100		
182	85.5	86.6	130.0#
77	0.0	0.0	0.0



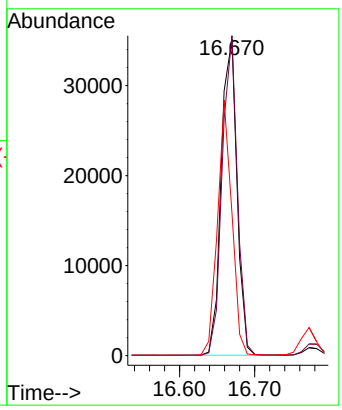


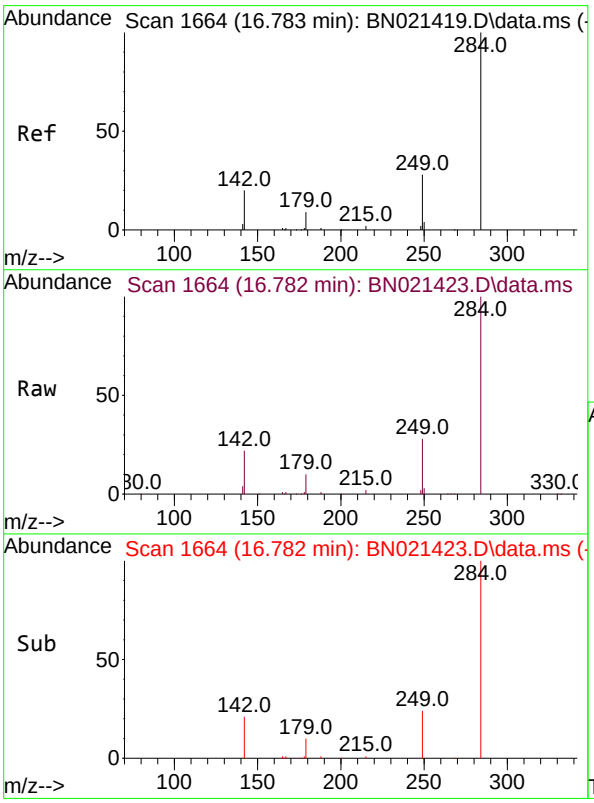
#21
4-Bromophenyl-phenylether
Concen: 4.815 ng
RT: 16.670 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 50978

Ion	Ratio	Lower	Upper
248	100		
250	101.1	81.8	122.6
141	45.2	38.5	57.7

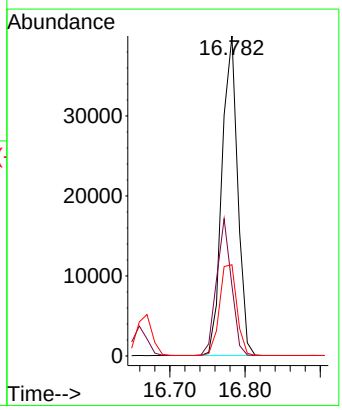


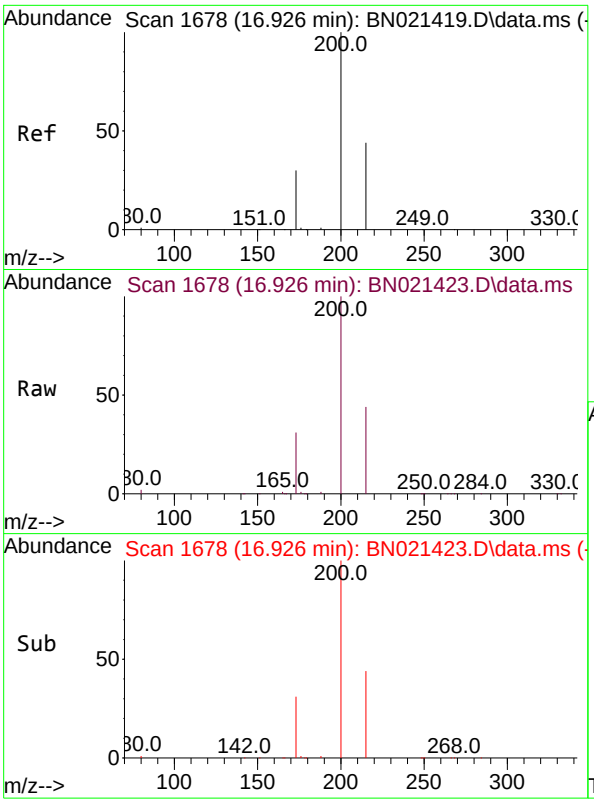


#22
Hexachlorobenzene
Concen: 4.701 ng
RT: 16.782 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:284 Resp: 57772

Ion	Ratio	Lower	Upper
284	100		
142	40.6	32.3	48.5
249	31.3	25.4	38.2



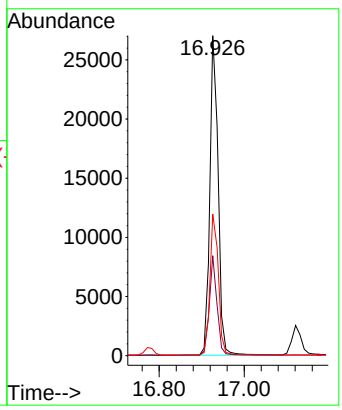


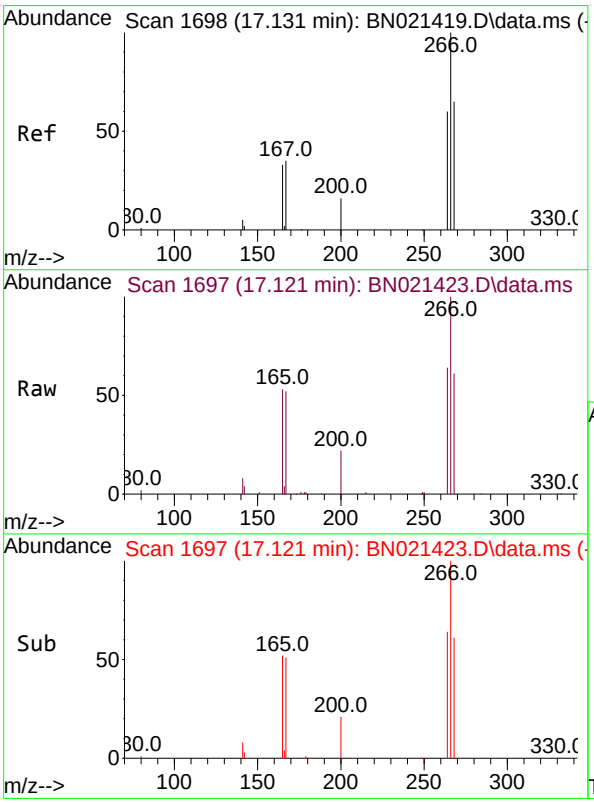
#23
Atrazine
Concen: 5.469 ng
RT: 16.926 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 36608

Ion	Ratio	Lower	Upper
200	100		
173	31.3	24.3	36.5
215	44.2	38.4	57.6

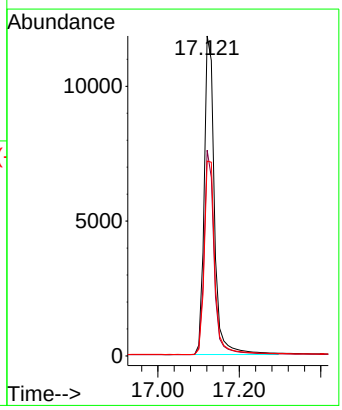


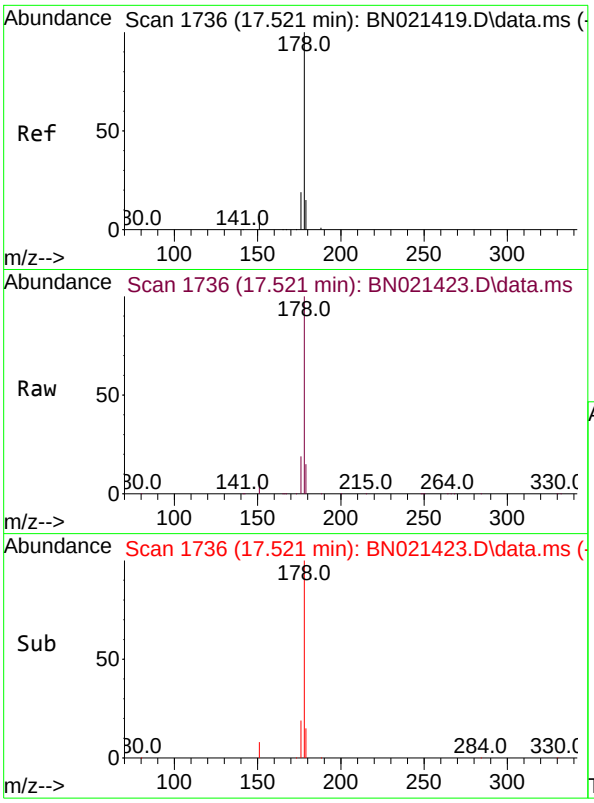


#24
Pentachlorophenol
Concen: 4.869 ng
RT: 17.121 min Scan# 1697
Delta R.T. -0.010 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:266 Resp: 20670

Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.0	73.6
268	63.3	50.9	76.3



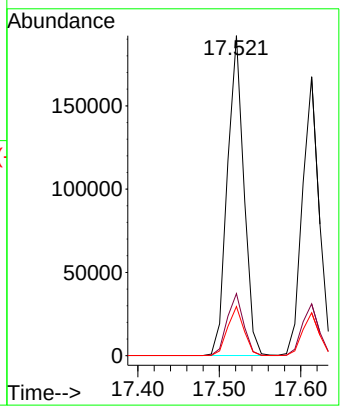


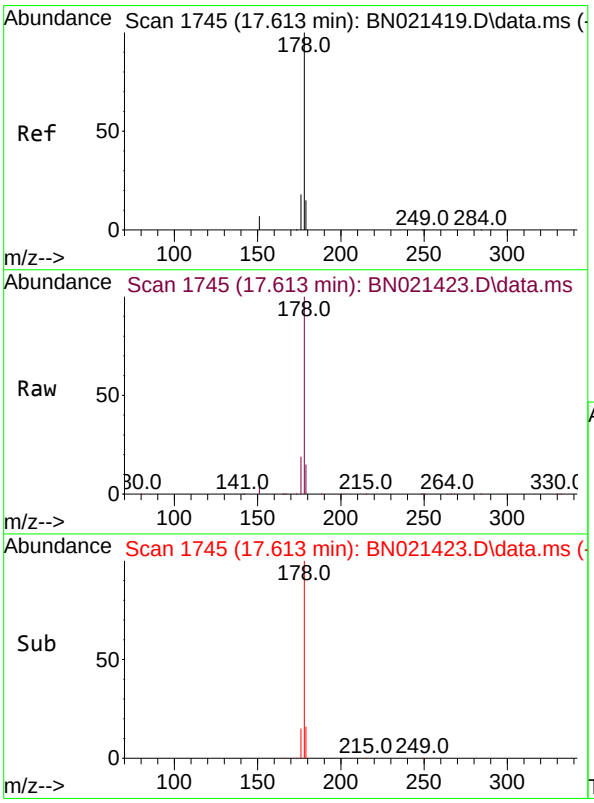
#25
Phenanthrene
Concen: 4.765 ng
RT: 17.521 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 269495

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.2	12.2	18.4

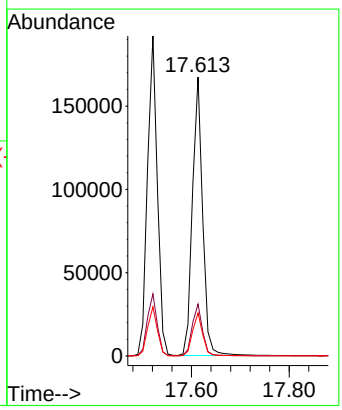


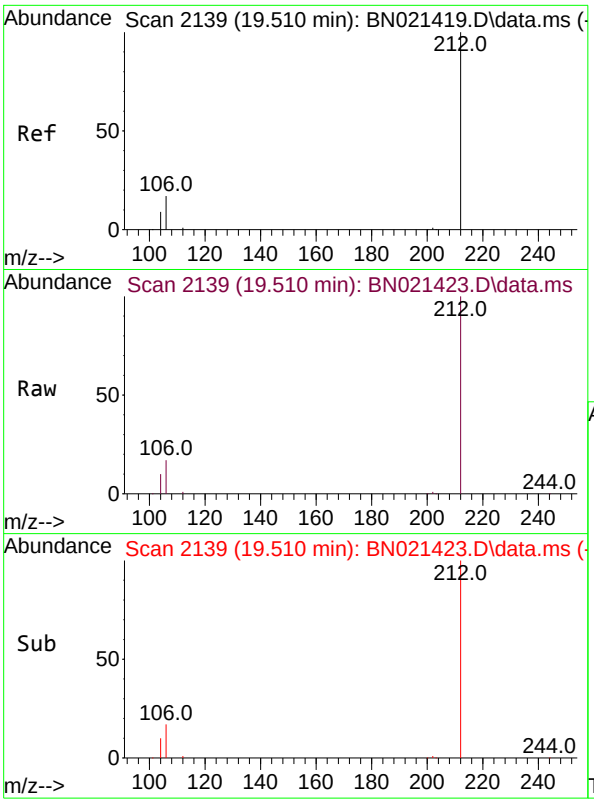


#26
Anthracene
Concen: 5.207 ng
RT: 17.613 min Scan# 1745
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:178 Resp: 241986

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.3	12.2	18.2



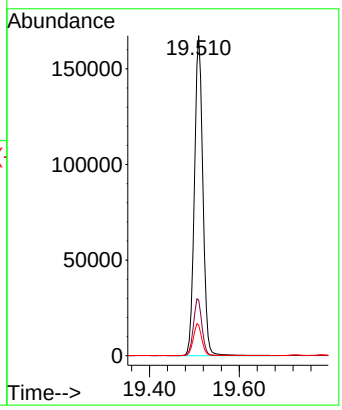


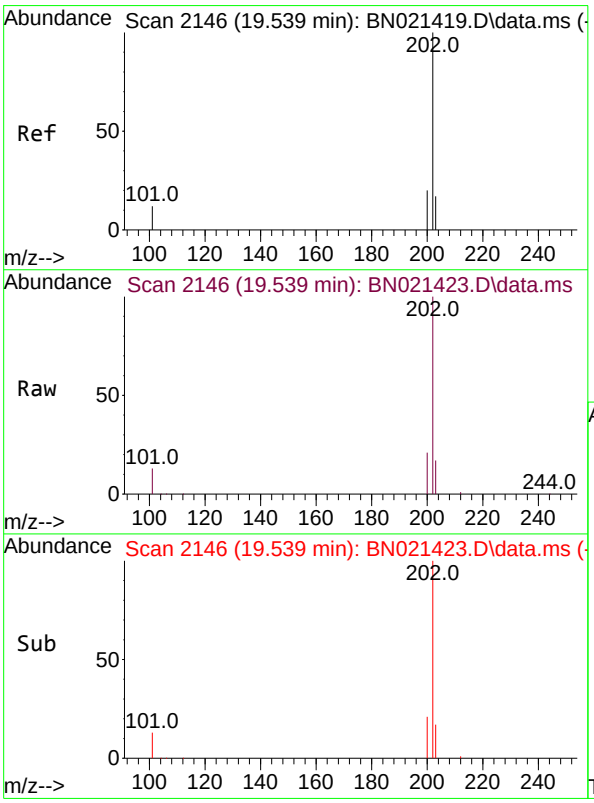
#27
Fluoranthene-d10
Concen: 4.718 ng
RT: 19.510 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 218002

Ion	Ratio	Lower	Upper
212	100		
106	17.9	14.2	21.2
104	10.0	7.8	11.6

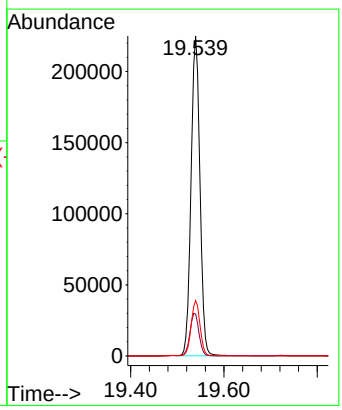


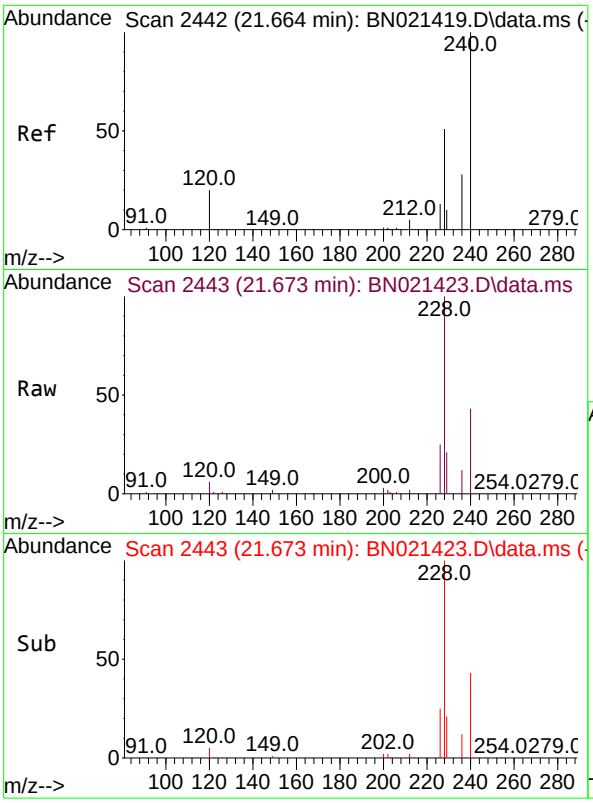


#28
Fluoranthene
Concen: 4.785 ng
RT: 19.539 min Scan# 2146
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:202 Resp: 297872

Ion	Ratio	Lower	Upper
202	100		
101	13.7	10.9	16.3
203	17.3	13.8	20.6



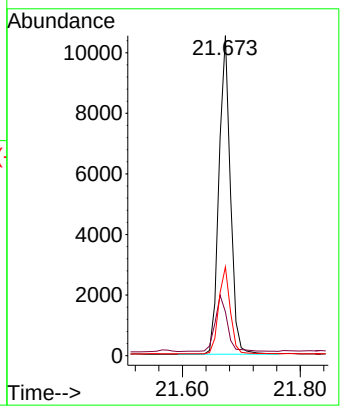


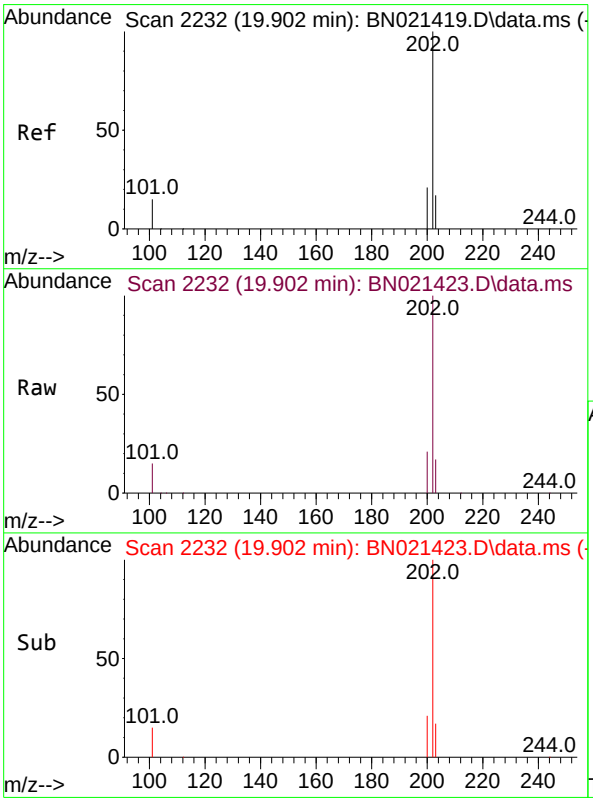
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.673 min Scan# 24
Delta R.T. 0.009 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 14129

Ion	Ratio	Lower	Upper
240	100		
120	13.7	10.2	15.4
236	27.7	22.1	33.1

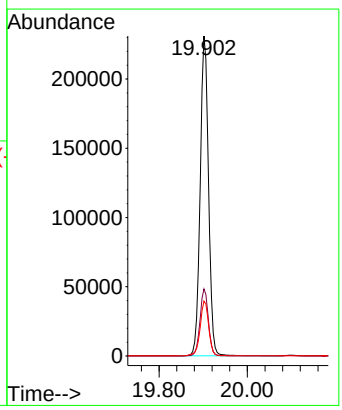


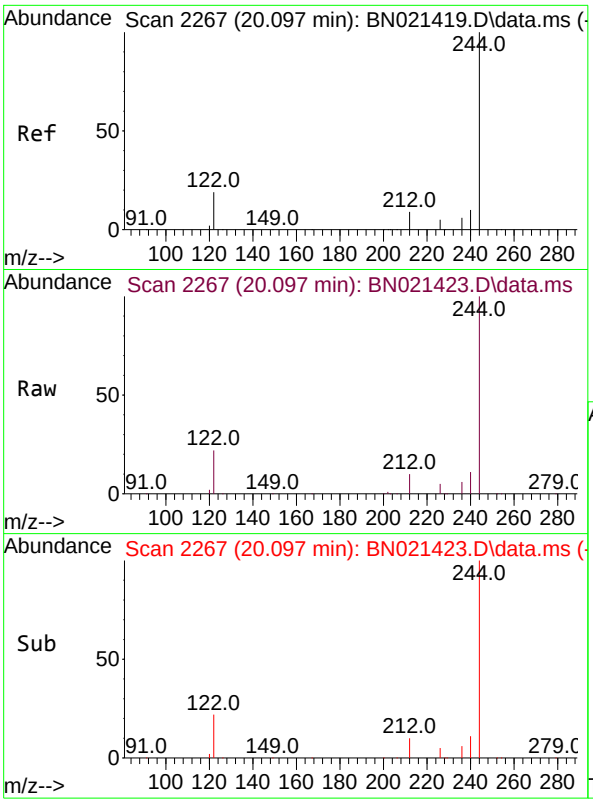


#30
Pyrene
Concen: 4.964 ng
RT: 19.902 min Scan# 2232
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:202 Resp: 353152

Ion	Ratio	Lower	Upper
202	100		
200	20.6	13.9	20.9
203	17.7	11.9	17.9



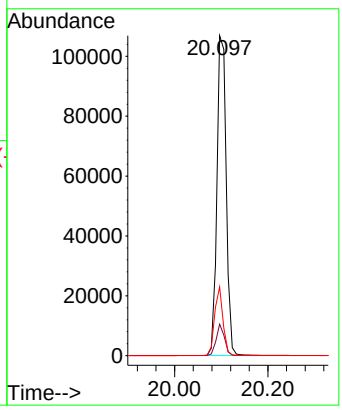


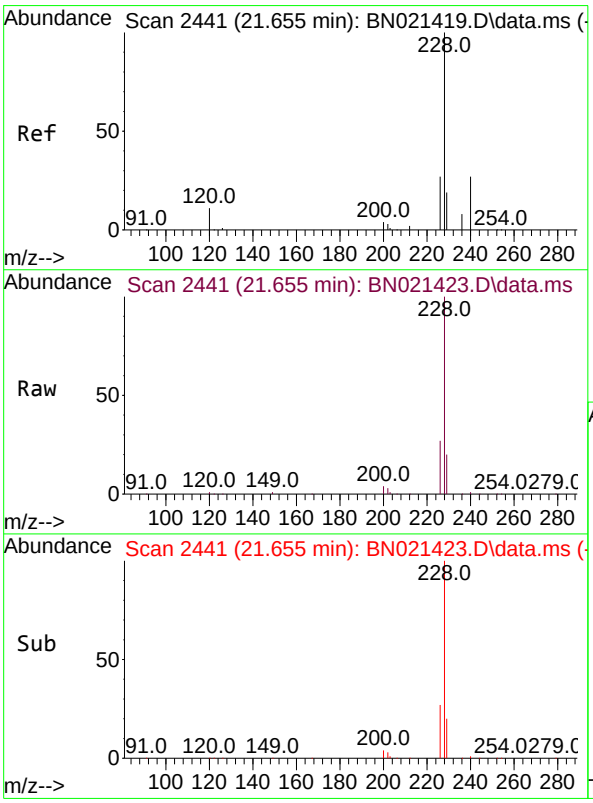
#31
Terphenyl-d14
Concen: 4.922 ng
RT: 20.097 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 146925

Ion	Ratio	Lower	Upper
244	100		
212	9.8	6.5	9.7#
122	21.5	9.1	13.7#

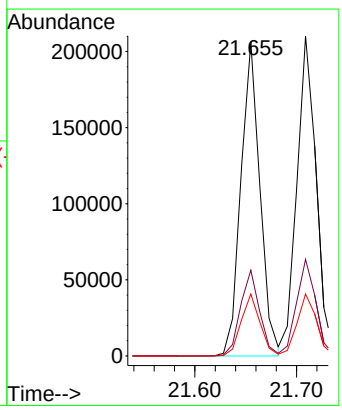


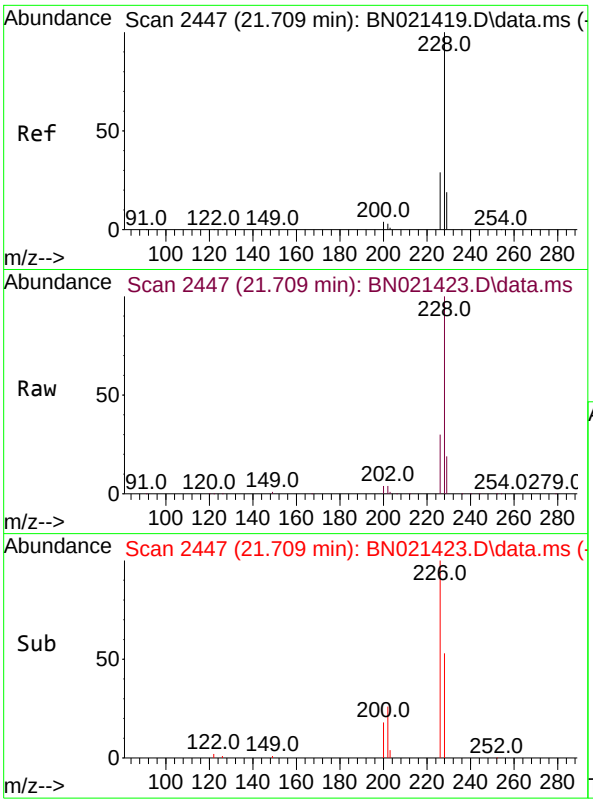


#32
Benzo(a)anthracene
Concen: 5.016 ng
RT: 21.655 min Scan# 2441
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:228 Resp: 268319

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.0	33.0
229	19.7	15.9	23.9



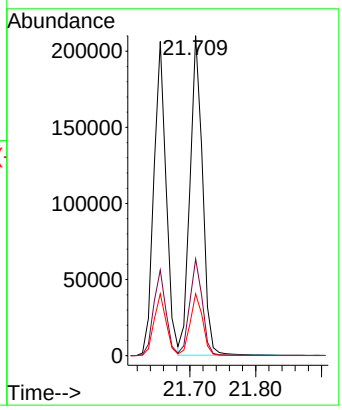


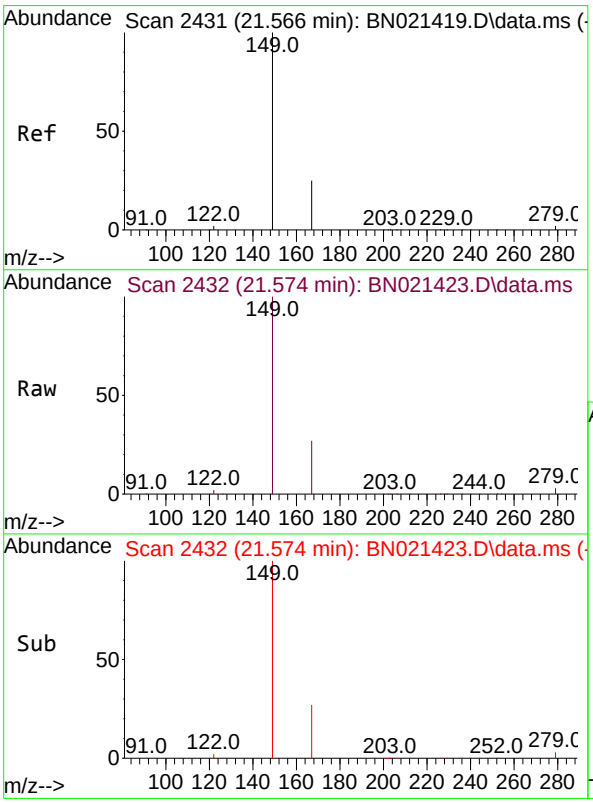
#33
Chrysene
Concen: 4.753 ng
RT: 21.709 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 277115

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.2	36.2
229	19.3	15.9	23.9

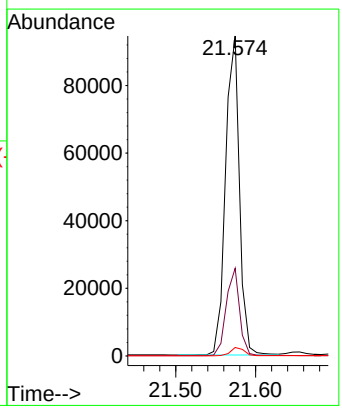


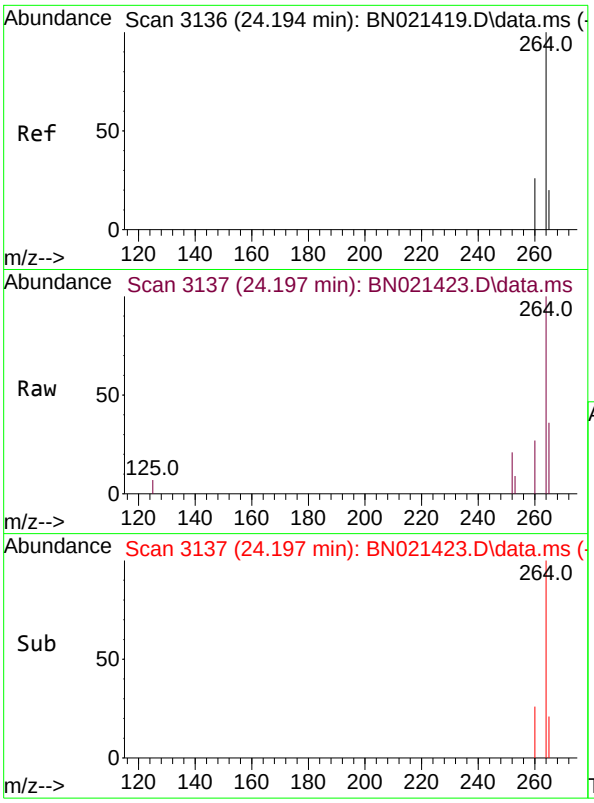


#34
Bis(2-ethylhexyl)phthalate
Concen: 4.420 ng
RT: 21.574 min Scan# 2432
Delta R.T. 0.009 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:149 Resp: 113977

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.4	32.0
279	2.6	2.2	3.2



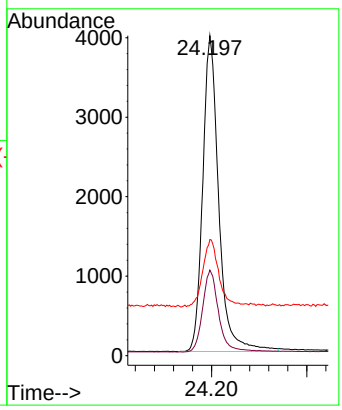


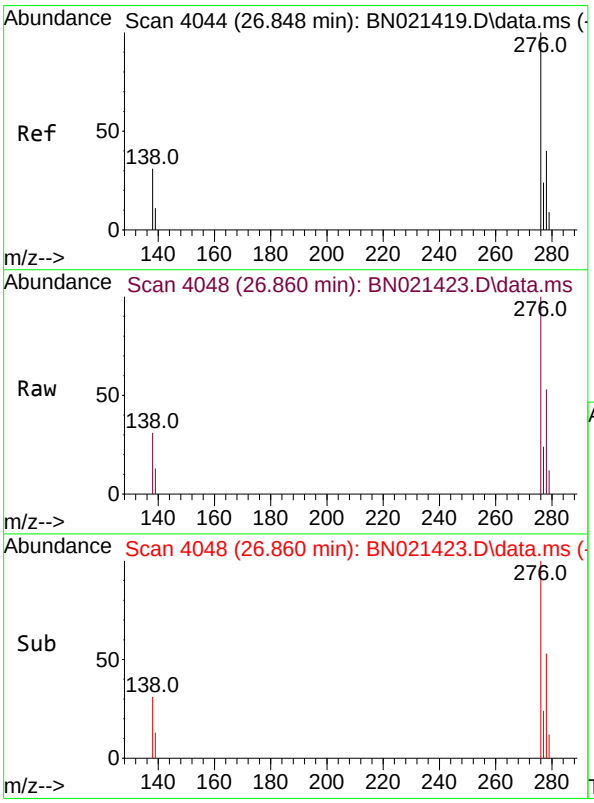
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.197 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 9257

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.0	31.6
265	36.3	32.2	48.2

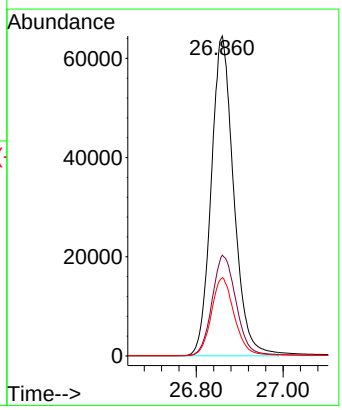


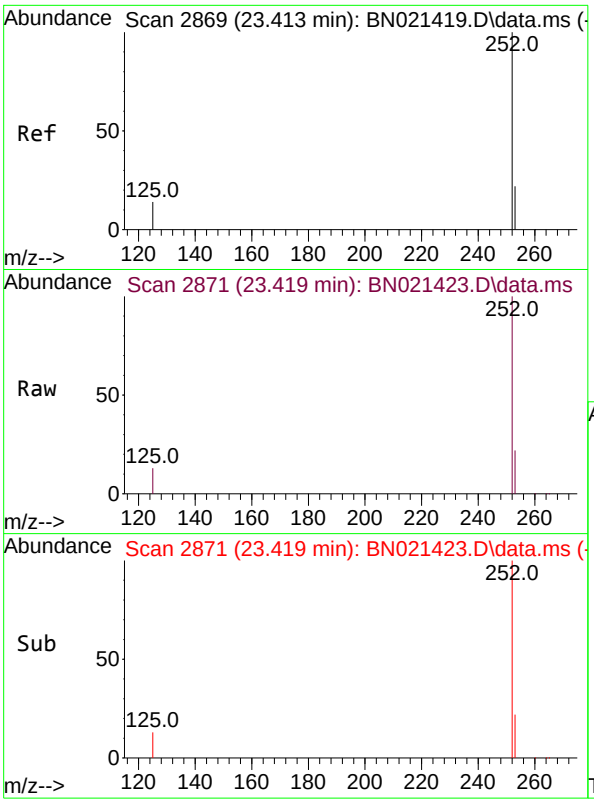


#36
Indeno(1,2,3-cd)pyrene
Concen: 4.923 ng
RT: 26.860 min Scan# 4048
Delta R.T. 0.012 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:276 Resp: 231777

Ion	Ratio	Lower	Upper
276	100		
138	33.4	27.4	41.2
277	24.9	19.9	29.9



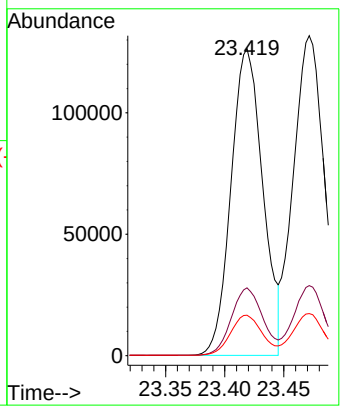


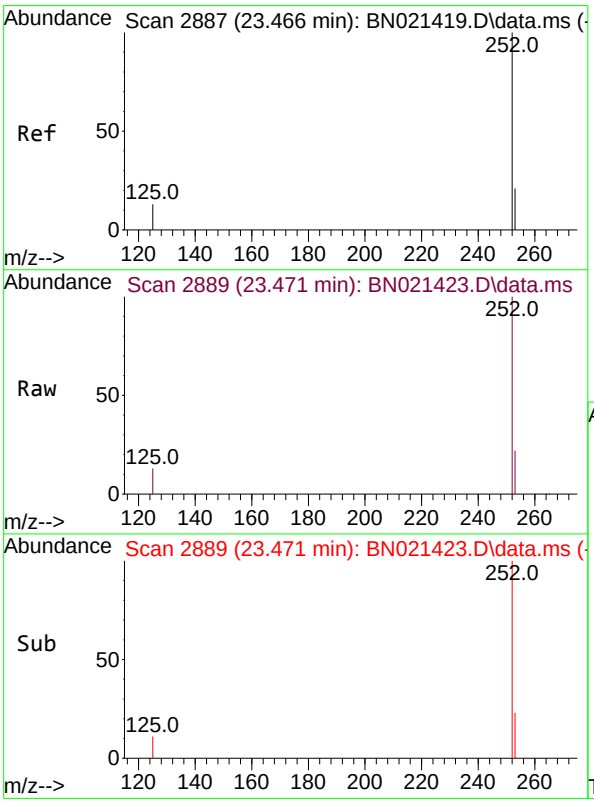
#37
Benzo(b)fluoranthene
Concen: 5.786 ng
RT: 23.419 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 236195

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.8	29.6
125	13.2	13.7	20.5#

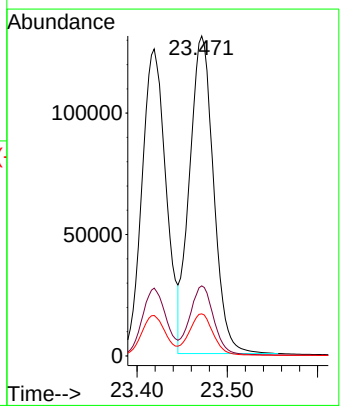


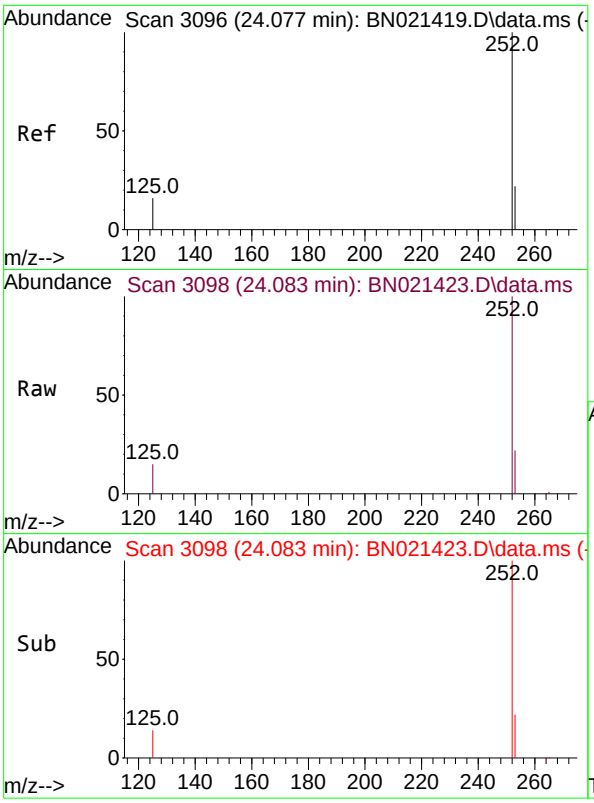


#38
Benzo(k)fluoranthene
Concen: 5.739 ng
RT: 23.471 min Scan# 2889
Delta R.T. 0.006 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:252 Resp: 242078

Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.5	29.3
125	13.2	12.3	18.5



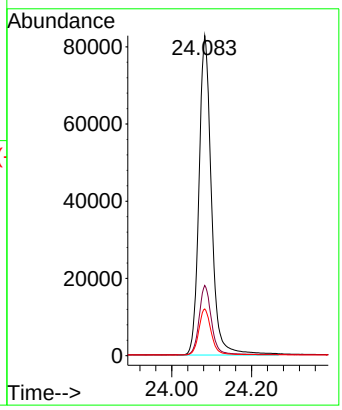


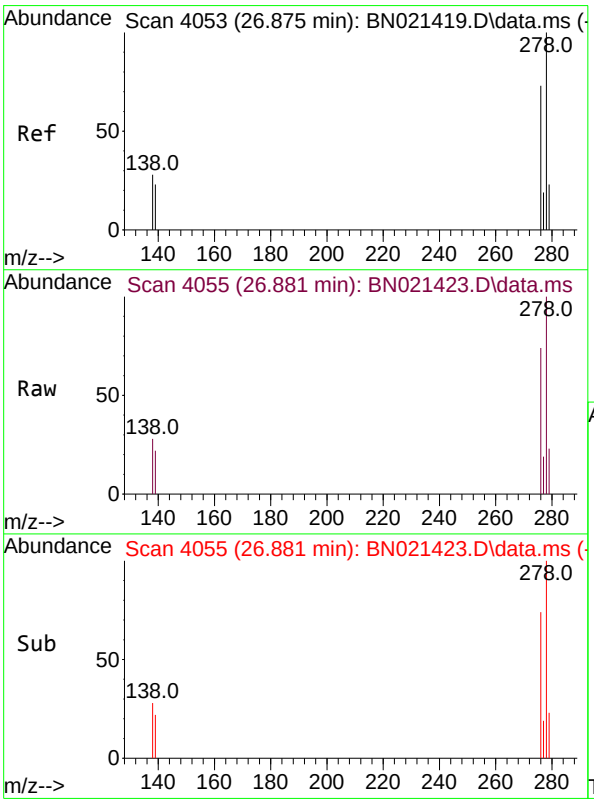
#39
Benzo(a)pyrene
Concen: 5.421 ng
RT: 24.083 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 179618

Ion	Ratio	Lower	Upper
252	100		
253	21.9	21.1	31.7
125	14.6	16.6	25.0#

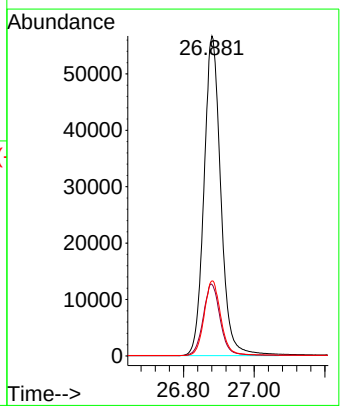


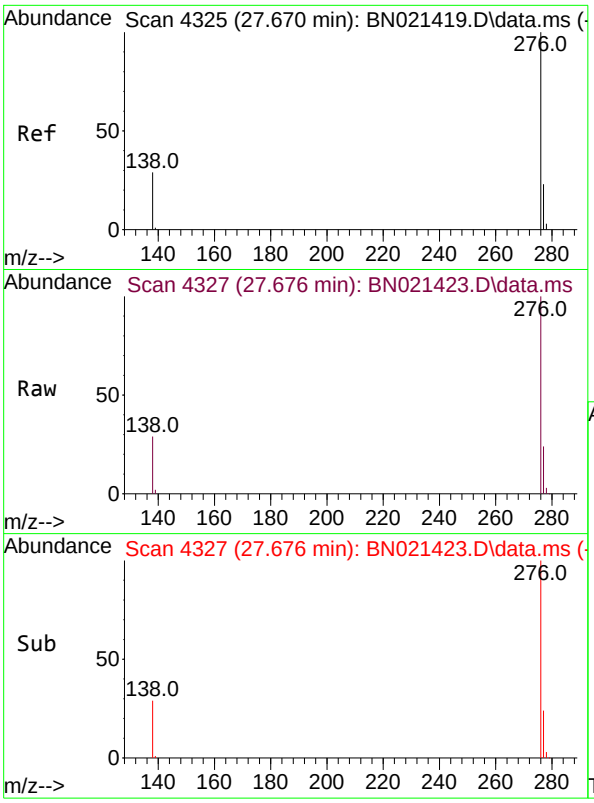


#40
Dibenzo(a,h)anthracene
Concen: 4.826 ng
RT: 26.881 min Scan# 4055
Delta R.T. 0.006 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Tgt Ion:278 Resp: 186932

Ion	Ratio	Lower	Upper
278	100		
139	22.4	21.8	32.6
279	23.4	20.4	30.6





#41
Benzo(g,h,i)perylene
Concen: 4.729 ng
RT: 27.676 min Scan# 4
Delta R.T. 0.006 min
Lab File: BN021423.D
Acq: 29 Aug 2022 14:58

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 192821

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.7	29.5
138	28.8	23.7	35.5