Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120622\
Data File : BN023075.D
Acq On : 06 Dec 2022 15:19
Operator : CG/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Dec 07 01:30:24 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN120622.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 07 01:27:45 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.035	152	6001	0.400	ng		0.00
7) Naphthalene-d8	10.861	136	17697	0.400	ng		0.00
13) Acenaphthene-d10	14.677	164	10419	0.400	ng		0.00
19) Phenanthrene-d10	17.427	188	22265	0.400	ng		0.00
29) Chrysene-d12	21.611	240	19895	0.400	ng		# 0.00
35) Perylene-d12	24.084	264	15276	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.572	112	22562	1.682	ng		0.00
5) Phenol-d6	7.183	99	28831	1.617	ng		0.00
8) Nitrobenzene-d5	9.195	82	22186	1.663	ng		0.00
11) 2-Methylnaphthalene-d10	12.442	152	62387	1.866	ng		0.00
14) 2,4,6-Tribromophenol	16.161	330	7440	1.721	ng		0.00
15) 2-Fluorobiphenyl	13.308	172	76684	1.642	ng		0.00
27) Fluoranthene-d10	19.452	212	103558	1.630	ng		0.00
31) Terphenyl-d14	20.044	244	66998	1.647	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.413	88	12600	1.682	ng		98
3) n-Nitrosodimethylamine	3.738	42	13088	1.573	ng	#	98
6) bis(2-Chloroethyl)ether	7.450	93	31899	1.645	ng		100
9) Naphthalene	10.904	128	88129	1.637	ng		99
10) Hexachlorobutadiene	11.192	225	16500	1.632	ng	#	99
12) 2-Methylnaphthalene	12.132	142	15774	1.723	ng	#	95
16) Acenaphthylene	14.399	152	84865	1.669	ng		100
17) Acenaphthene	14.741	154	59915	1.657	ng		99
18) Fluorene	15.726	166	73644	1.649	ng		99
20) 4,6-Dinitro-2-methylph...	15.788	198	6063	1.727	ng	#	88
21) 4-Bromophenyl-phenylether	16.608	248	23237	1.618	ng		96
22) Hexachlorobenzene	16.732	284	29743	1.676	ng		100
23) Atrazine	16.881	200	16688	1.760	ng		99
24) Pentachlorophenol	17.067	266	9895	2.283	ng		96
25) Phenanthrene	17.464	178	127064	1.646	ng		100
26) Anthracene	17.551	178	105798	1.669	ng		99
28) Fluoranthene	19.481	202	143471	1.665	ng		100
30) Pyrene	19.844	202	139913	1.665	ng		100
32) Benzo(a)anthracene	21.593	228	122764	1.669	ng		99
33) Chrysene	21.647	228	136046	1.667	ng		99
34) Bis(2-ethylhexyl)phtha...	21.513	149	49157	1.707	ng		100
36) Indeno(1,2,3-cd)pyrene	26.674	276	141981	1.723	ng		100
37) Benzo(b)fluoranthene	23.326	252	120112	1.719	ng		97
38) Benzo(k)fluoranthene	23.376	252	125245	1.745	ng		97
39) Benzo(a)pyrene	23.973	252	97966	1.787	ng	#	93
40) Dibenzo(a,h)anthracene	26.692	278	113341	1.724	ng		98
41) Benzo(g,h,i)perylene	27.466	276	116268	1.690	ng		99

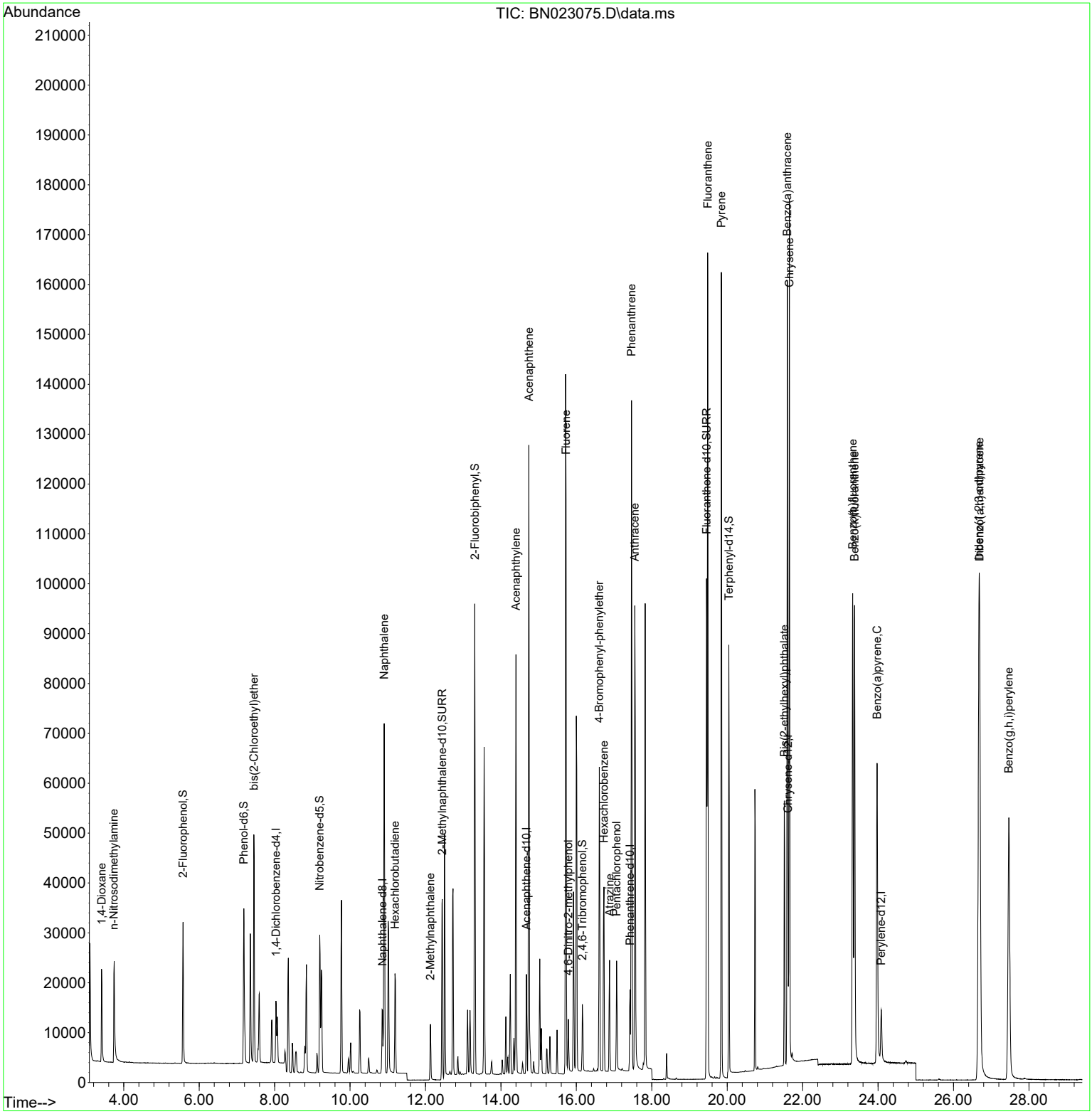
(#) = qualifier out of range (m) = manual integration (+) = signals summed

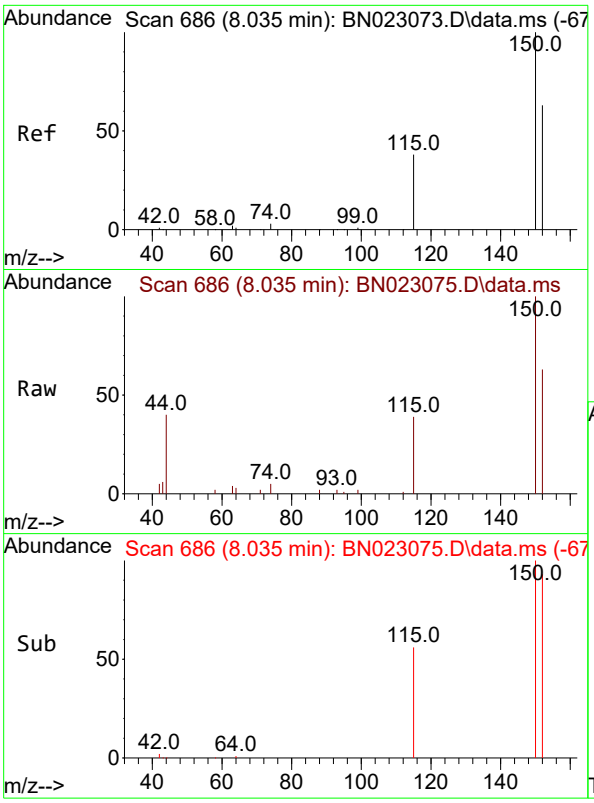
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120622\
Data File : BN023075.D
Acq On : 06 Dec 2022 15:19
Operator : CG/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Dec 07 01:30:24 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN120622.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 07 01:27:45 2022
Response via : Initial Calibration



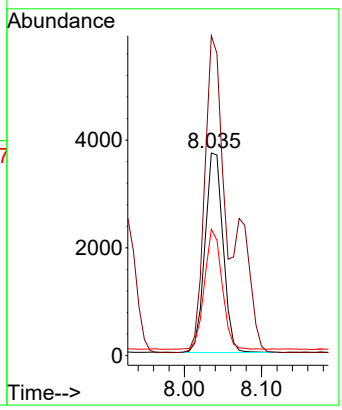


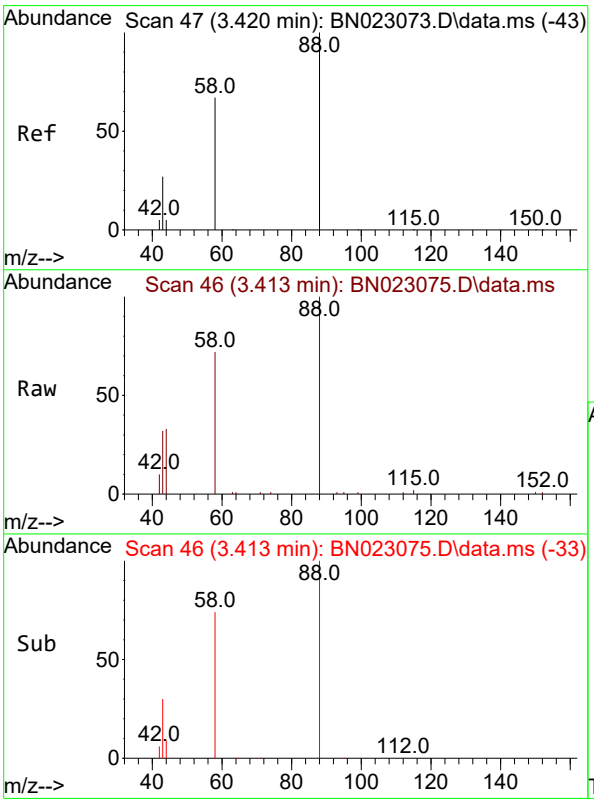
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.035 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 6001

Ion	Ratio	Lower	Upper
152	100		
150	157.9	125.7	188.5
115	62.3	49.4	74.0

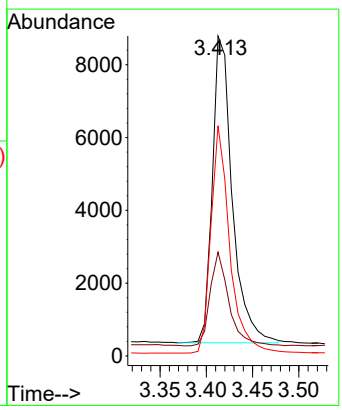


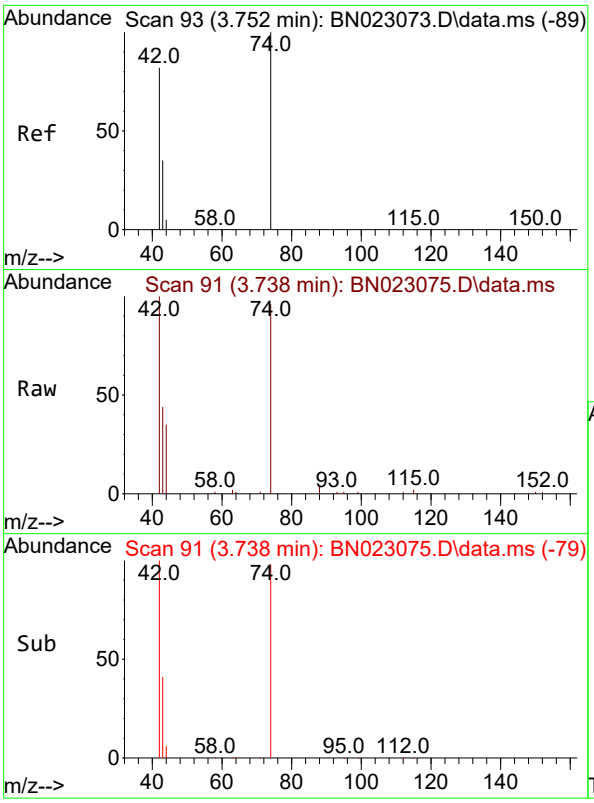


#2
1,4-Dioxane
Concen: 1.682 ng
RT: 3.413 min Scan# 46
Delta R.T. -0.007 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion: 88 Resp: 12600

Ion	Ratio	Lower	Upper
88	100		
43	29.0	22.0	33.0
58	69.8	54.6	81.8



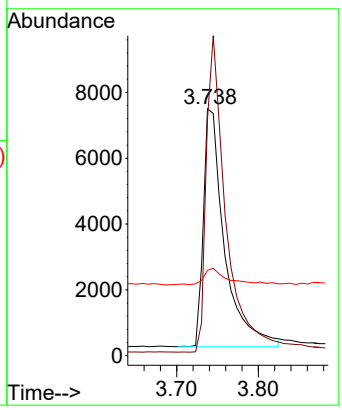


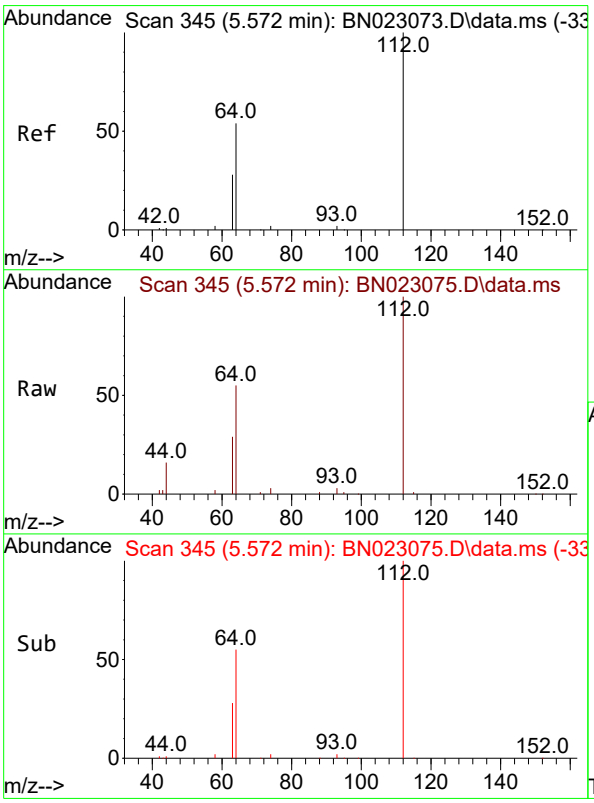
#3
n-Nitrosodimethylamine
Concen: 1.573 ng
RT: 3.738 min Scan# 91
Delta R.T. -0.015 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 13088

Ion	Ratio	Lower	Upper
42	100		
74	123.5	99.9	149.9
44	8.1	9.0	13.6#

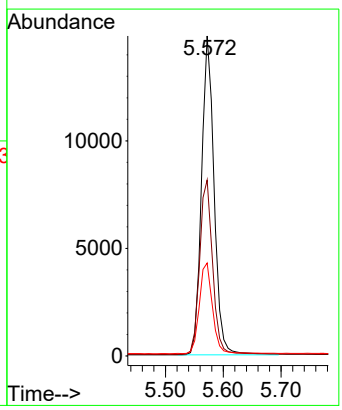


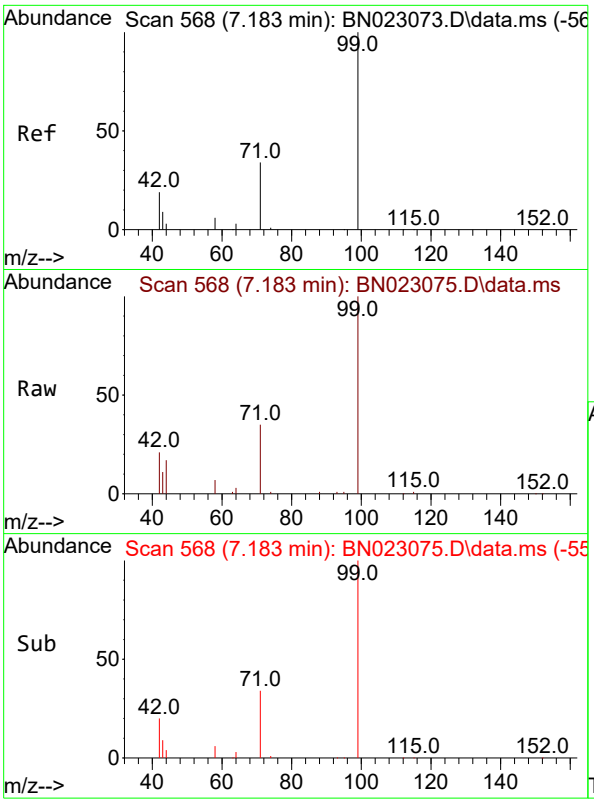


#4
2-Fluorophenol
Concen: 1.682 ng
RT: 5.572 min Scan# 345
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:112 Resp: 22562

Ion	Ratio	Lower	Upper
112	100		
64	56.4	45.0	67.6
63	29.8	24.2	36.4



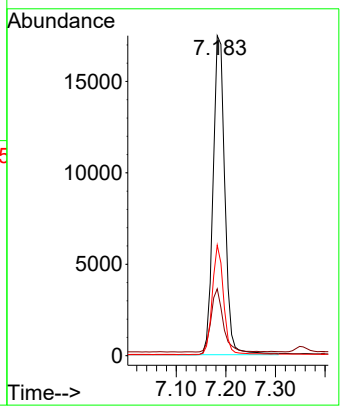


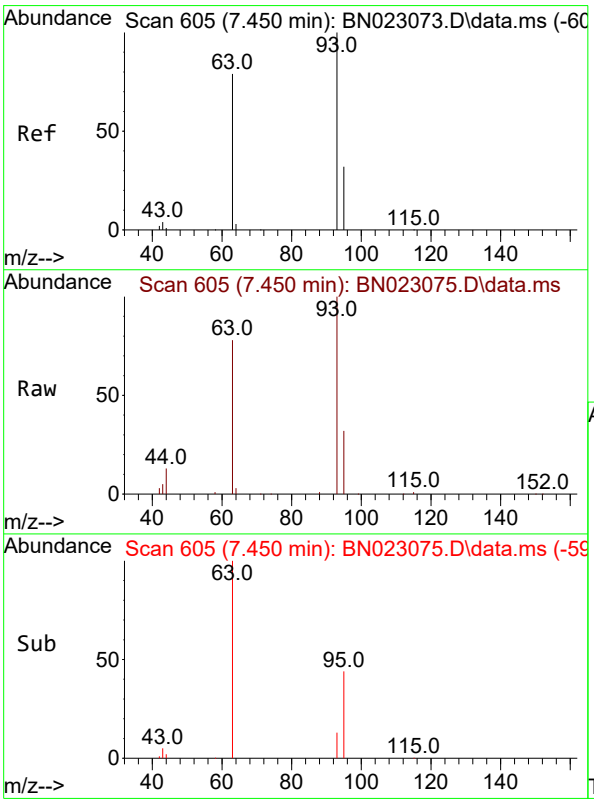
#5
Phenol-d6
Concen: 1.617 ng
RT: 7.183 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 28831

Ion	Ratio	Lower	Upper
99	100		
42	20.4	16.1	24.1
71	33.0	26.4	39.6

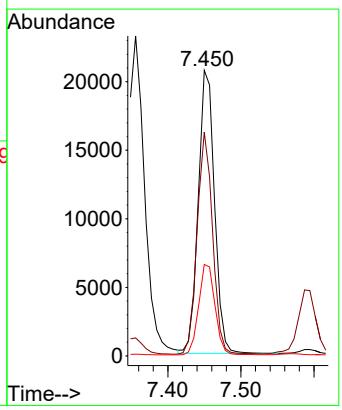


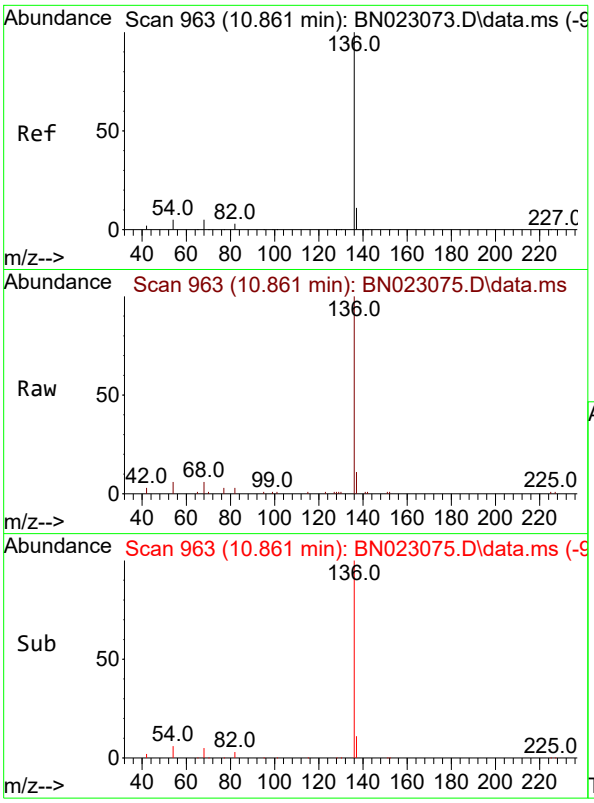


#6
bis(2-Chloroethyl)ether
Concen: 1.645 ng
RT: 7.450 min Scan# 605
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion: 93 Resp: 31899

Ion	Ratio	Lower	Upper
93	100		
63	74.6	59.3	88.9
95	32.2	25.8	38.6



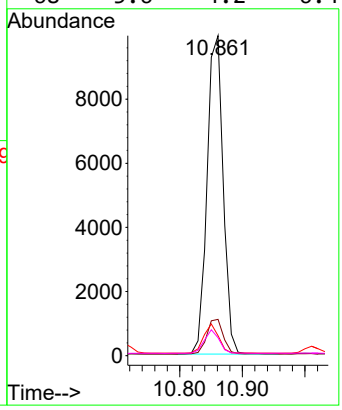


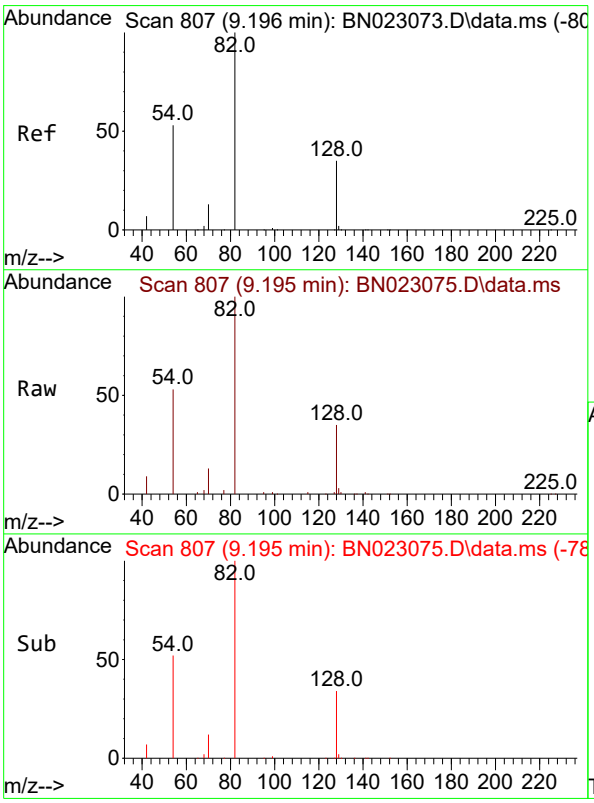
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.861 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 17697

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.8	13.2
54	6.3	4.6	7.0
68	5.6	4.2	6.4

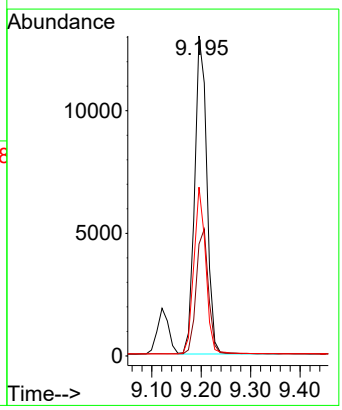


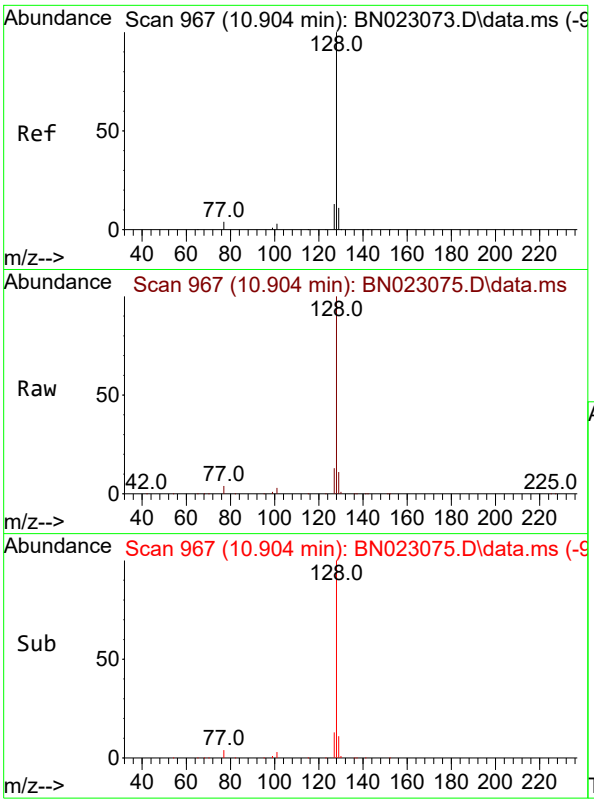


#8
Nitrobenzene-d5
Concen: 1.663 ng
RT: 9.195 min Scan# 807
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion: 82 Resp: 22186

Ion	Ratio	Lower	Upper
82	100		
128	34.9	28.9	43.3
54	52.8	43.4	65.2



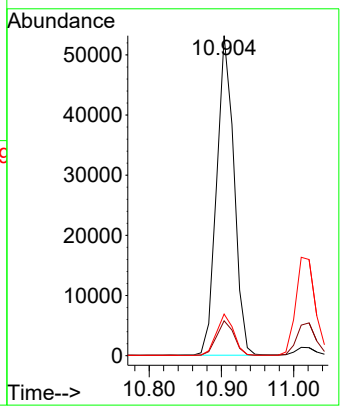


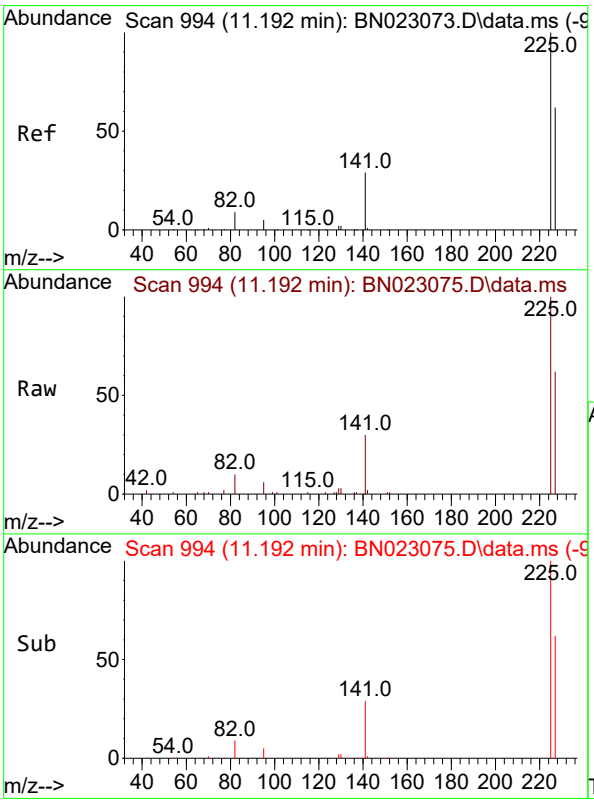
#9
Naphthalene
Concen: 1.637 ng
RT: 10.904 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 88129

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	13.0	10.7	16.1

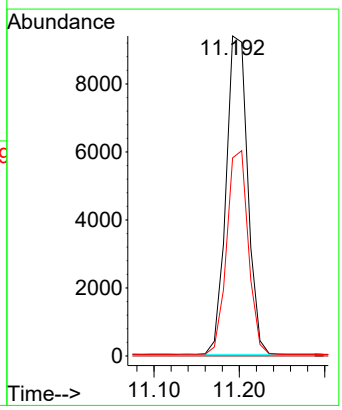


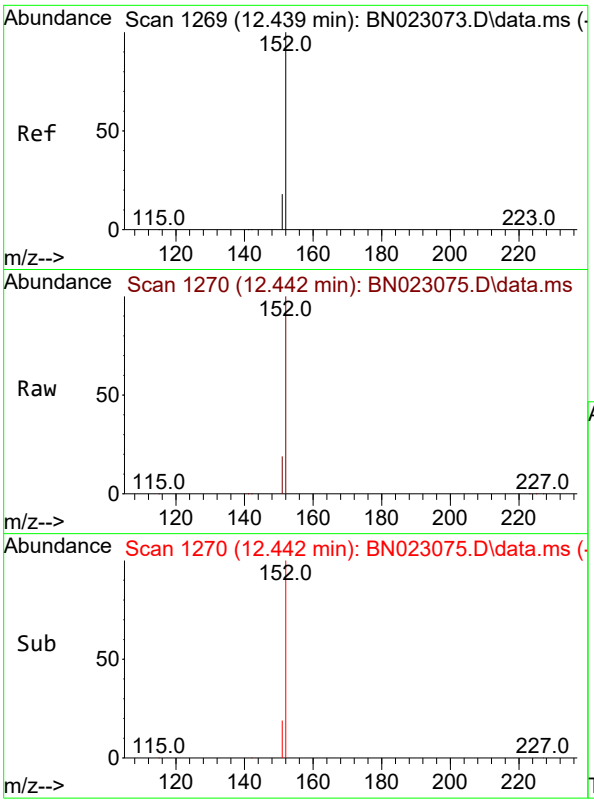


#10
Hexachlorobutadiene
Concen: 1.632 ng
RT: 11.192 min Scan# 994
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:225 Resp: 16500

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.3	76.9



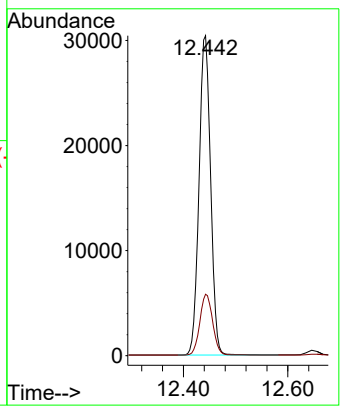


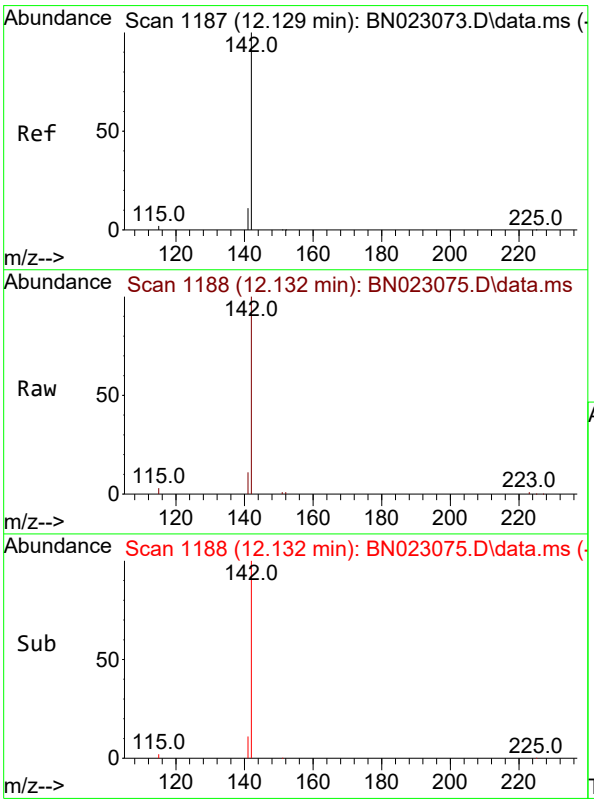
#11
2-Methylnaphthalene-d10
Concen: 1.866 ng
RT: 12.442 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 62387

Ion	Ratio	Lower	Upper
152	100		
151	19.3	12.4	18.6#

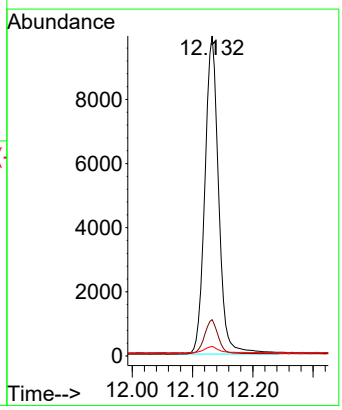


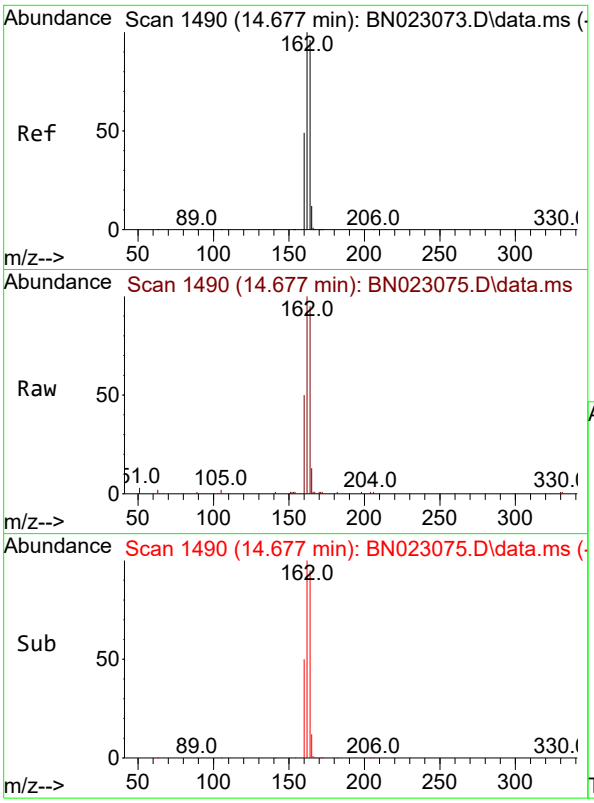


#12
2-Methylnaphthalene
Concen: 1.723 ng
RT: 12.132 min Scan# 1188
Delta R.T. 0.004 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:142 Resp: 15774

Ion	Ratio	Lower	Upper
142	100		
141	11.4	10.2	15.4
115	3.0	4.5	6.7#



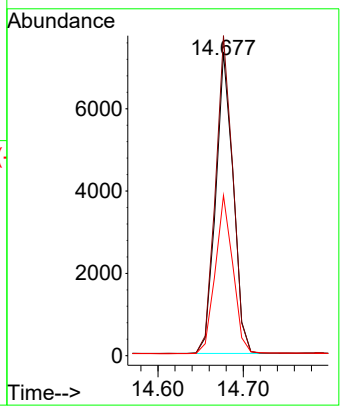


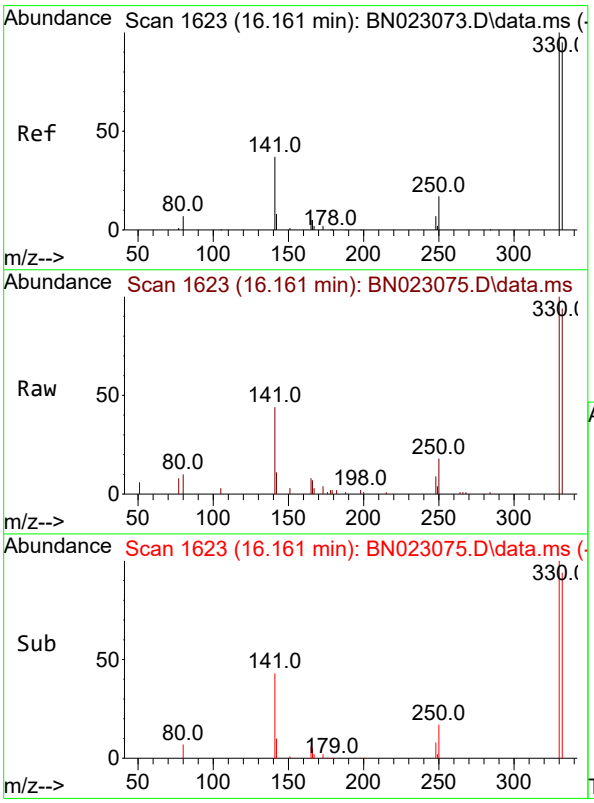
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.677 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 10419

Ion	Ratio	Lower	Upper
164	100		
162	105.5	83.5	125.3
160	52.8	41.4	62.2

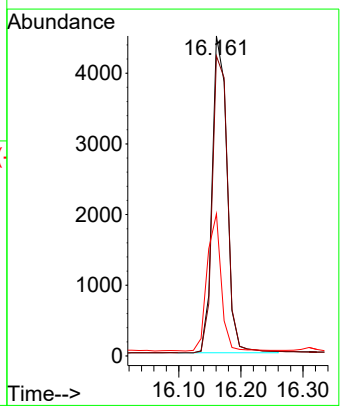


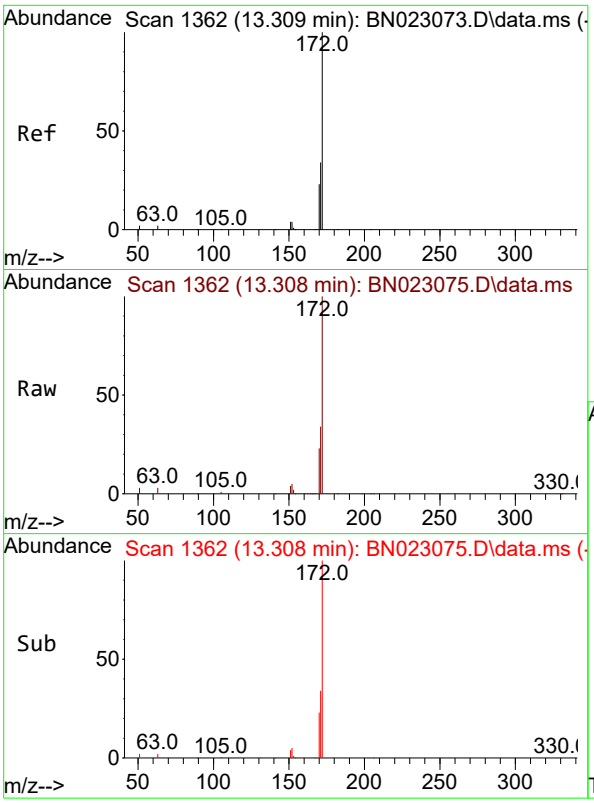


#14
2,4,6-Tribromophenol
Concen: 1.721 ng
RT: 16.161 min Scan# 1623
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:330 Resp: 7440

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.4	116.0
141	41.1	33.4	50.2



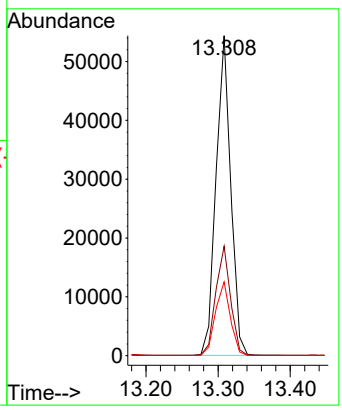


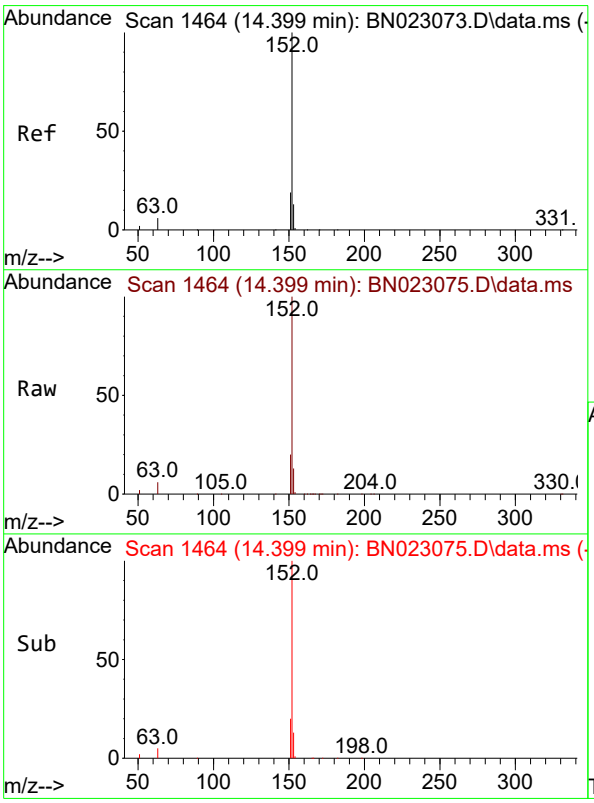
#15
2-Fluorobiphenyl
Concen: 1.642 ng
RT: 13.308 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 76684

Ion	Ratio	Lower	Upper
172	100		
171	34.2	27.1	40.7
170	23.1	18.3	27.5

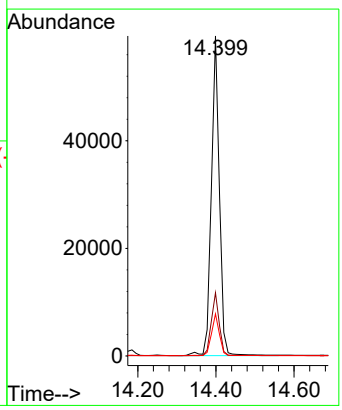


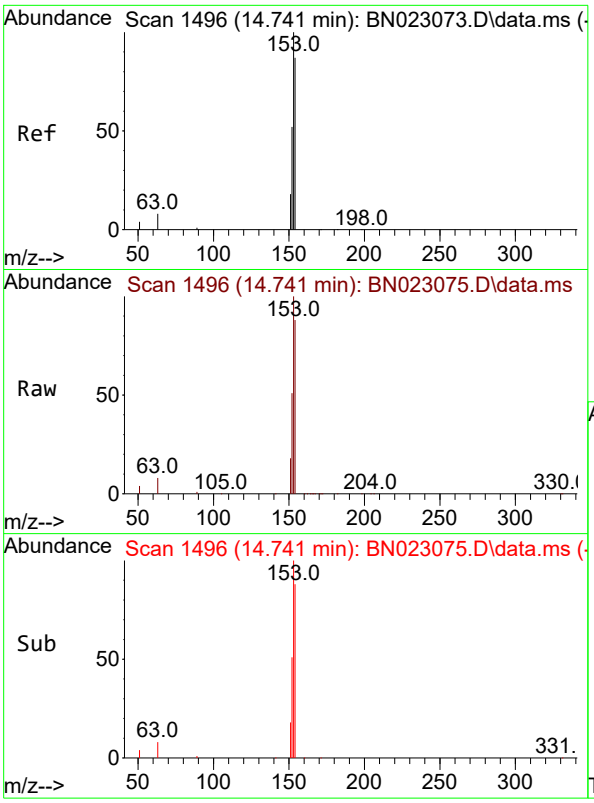


#16
Acenaphthylene
Concen: 1.669 ng
RT: 14.399 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:152 Resp: 84865

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.4	23.2
153	13.0	10.2	15.4



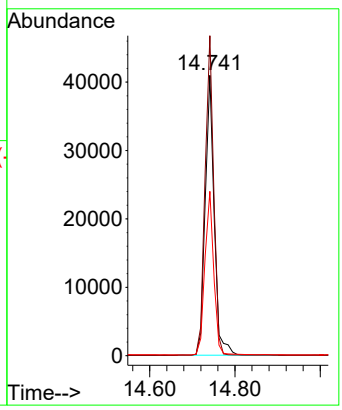


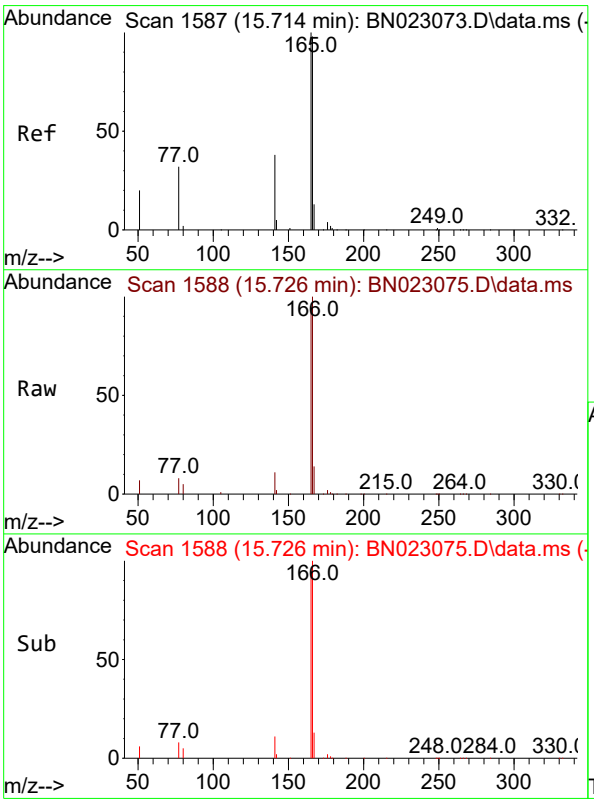
#17
Acenaphthene
Concen: 1.657 ng
RT: 14.741 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 59915

Ion	Ratio	Lower	Upper
154	100		
153	109.6	88.5	132.7
152	57.6	46.6	70.0

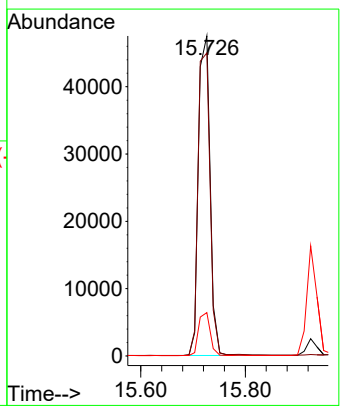


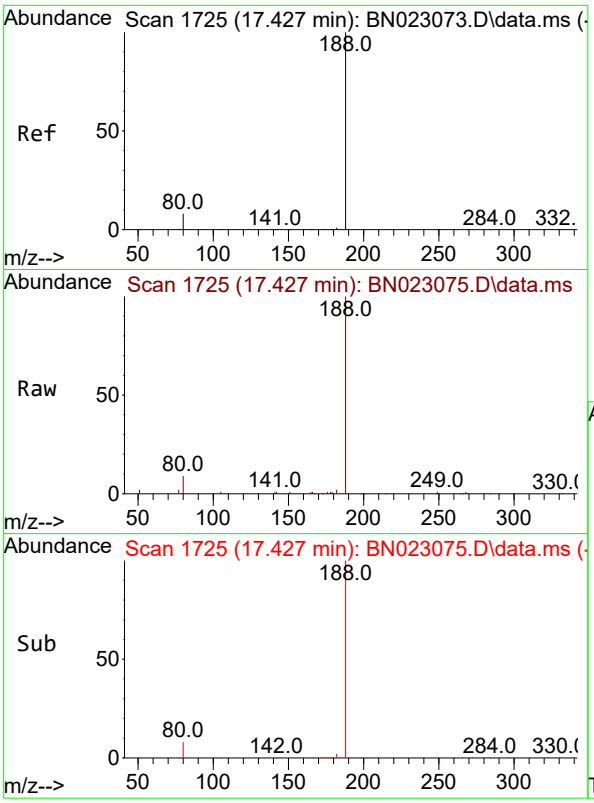


#18
Fluorene
Concen: 1.649 ng
RT: 15.726 min Scan# 1588
Delta R.T. 0.012 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:166 Resp: 73644

Ion	Ratio	Lower	Upper
166	100		
165	96.0	76.3	114.5
167	13.3	10.6	16.0



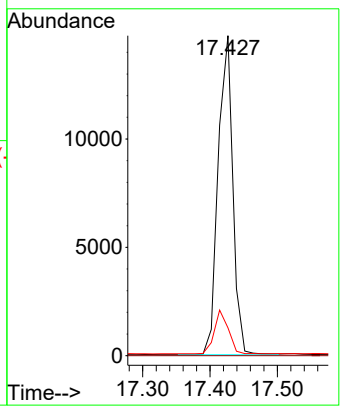


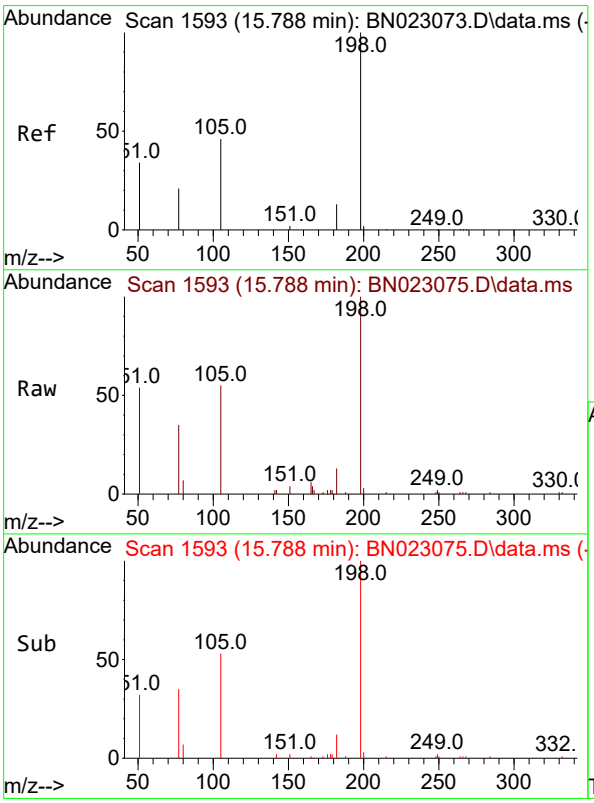
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 22265

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	6.5	9.7

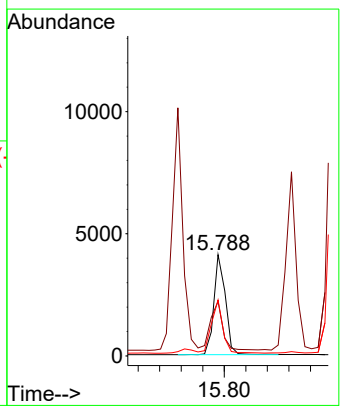


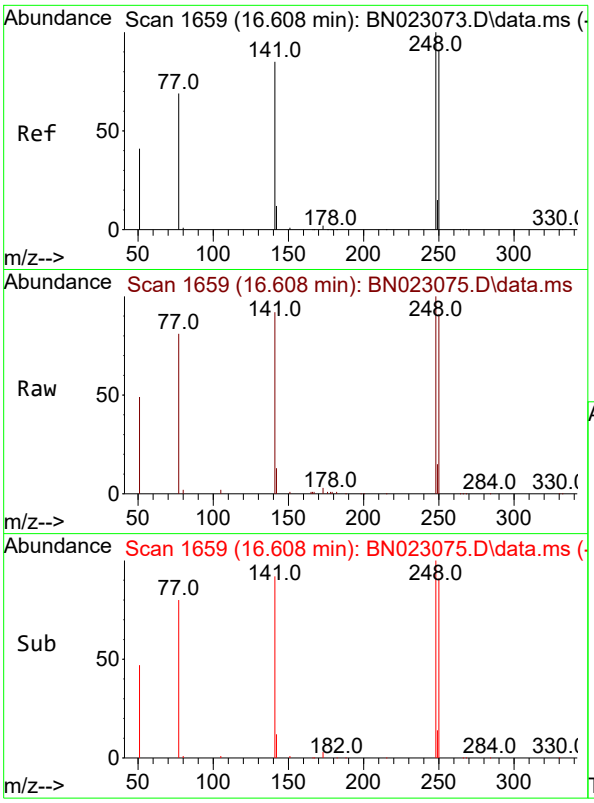


#20
4,6-Dinitro-2-methylphenol
Concen: 1.727 ng
RT: 15.788 min Scan# 1593
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:198 Resp: 6063

Ion	Ratio	Lower	Upper
198	100		
51	53.8	56.6	85.0#
105	55.3	45.7	68.5



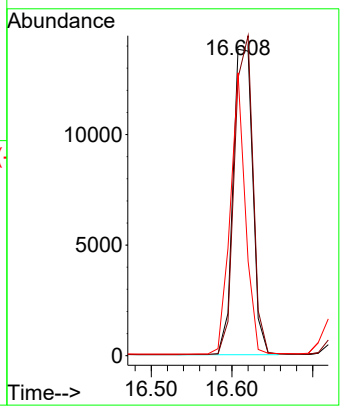


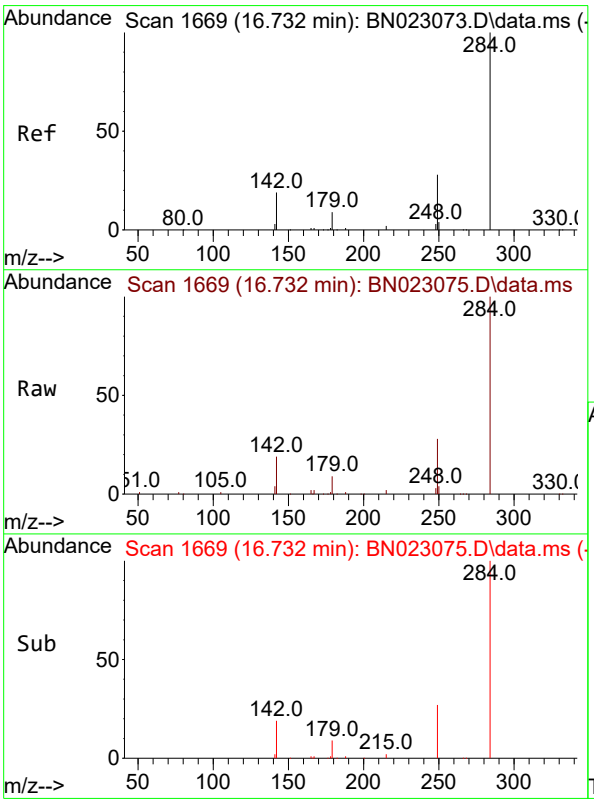
#21
4-Bromophenyl-phenylether
Concen: 1.618 ng
RT: 16.608 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 23237

Ion	Ratio	Lower	Upper
248	100		
250	90.6	72.7	109.1
141	92.3	68.3	102.5

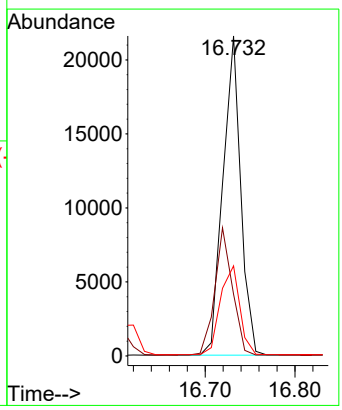


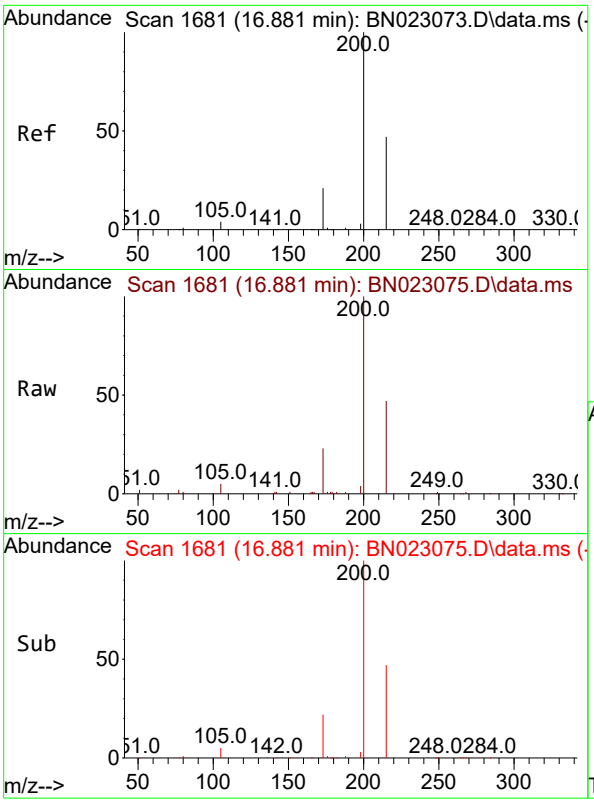


#22
Hexachlorobenzene
Concen: 1.676 ng
RT: 16.732 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:284 Resp: 29743

Ion	Ratio	Lower	Upper
284	100		
142	39.3	31.2	46.8
249	30.5	24.5	36.7



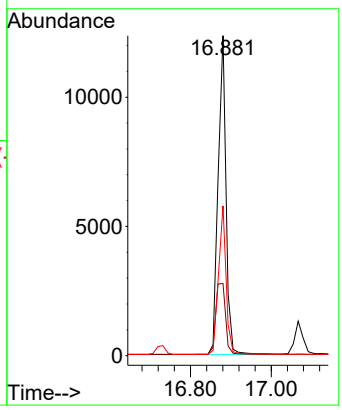


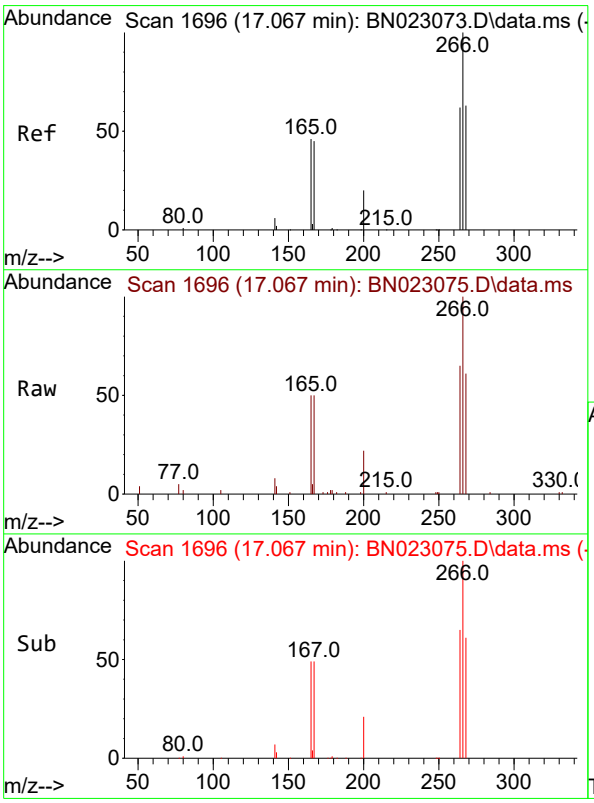
#23
Atrazine
Concen: 1.760 ng
RT: 16.881 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 16688

Ion	Ratio	Lower	Upper
200	100		
173	22.5	18.0	27.0
215	46.8	37.9	56.9

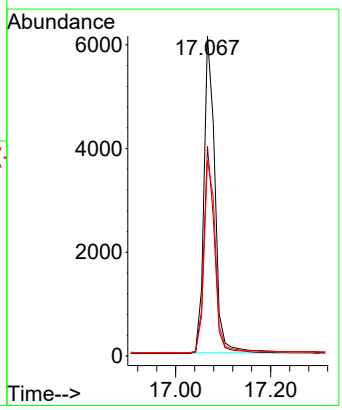


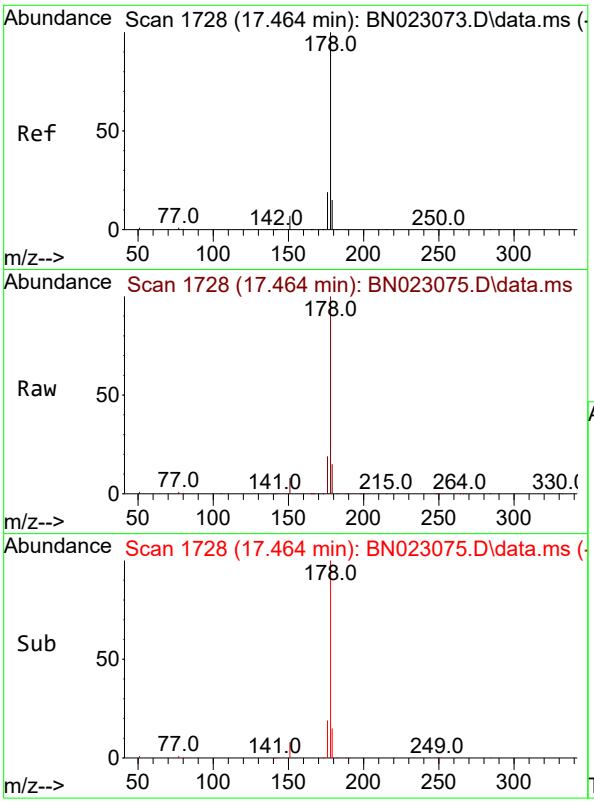


#24
Pentachlorophenol
Concen: 2.283 ng
RT: 17.067 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:266 Resp: 9895

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.1	73.7
268	63.3	53.8	80.8



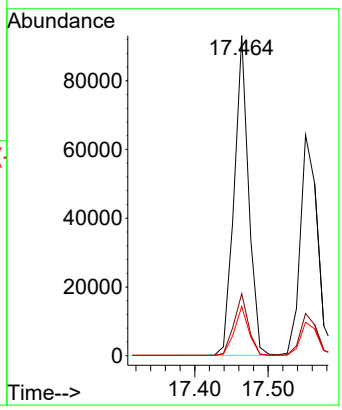


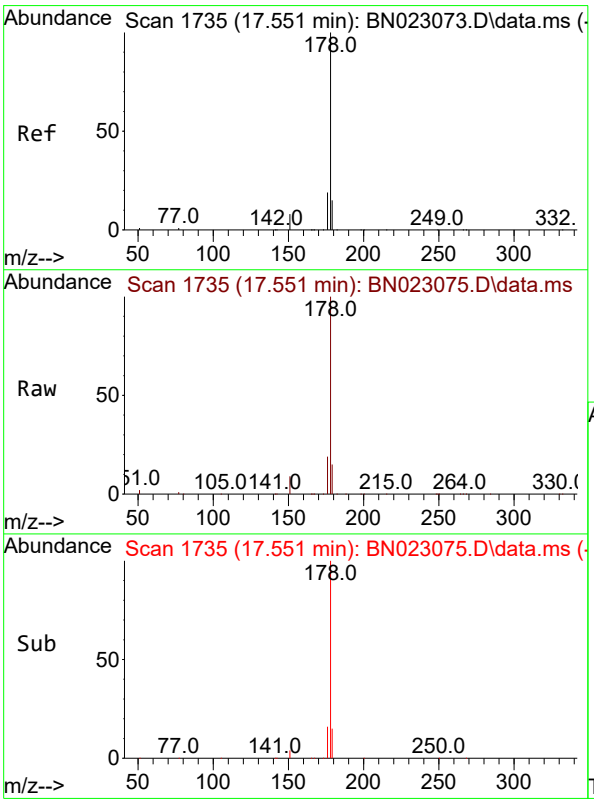
#25
Phenanthrene
Concen: 1.646 ng
RT: 17.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 127064

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.6	23.4
179	15.2	12.2	18.2

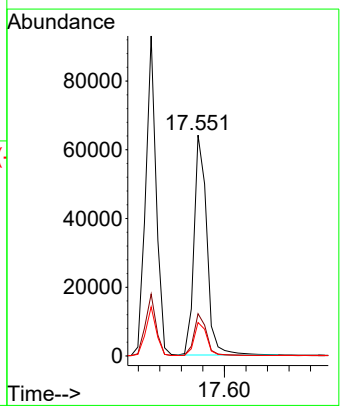


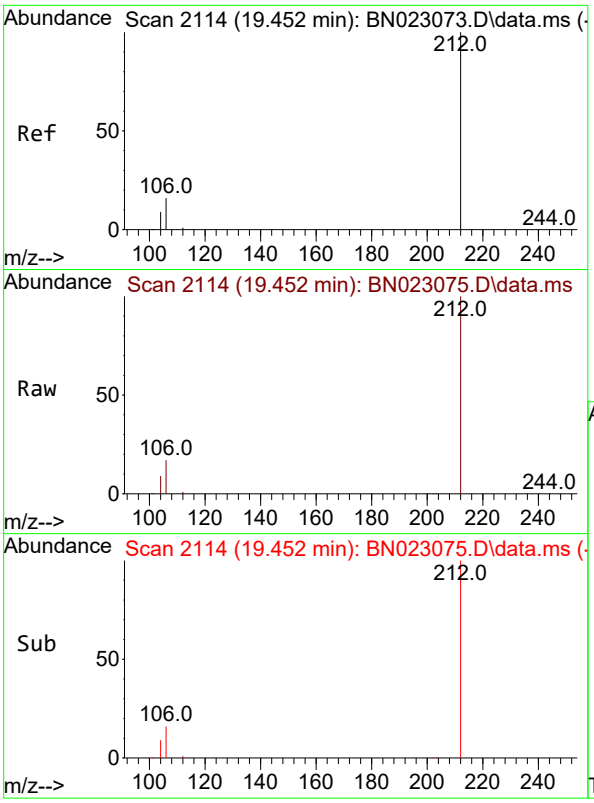


#26
Anthracene
Concen: 1.669 ng
RT: 17.551 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:178 Resp: 105798

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.2	12.4	18.6



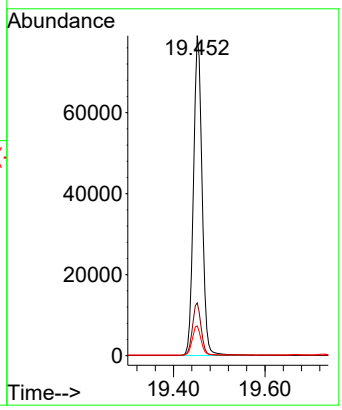


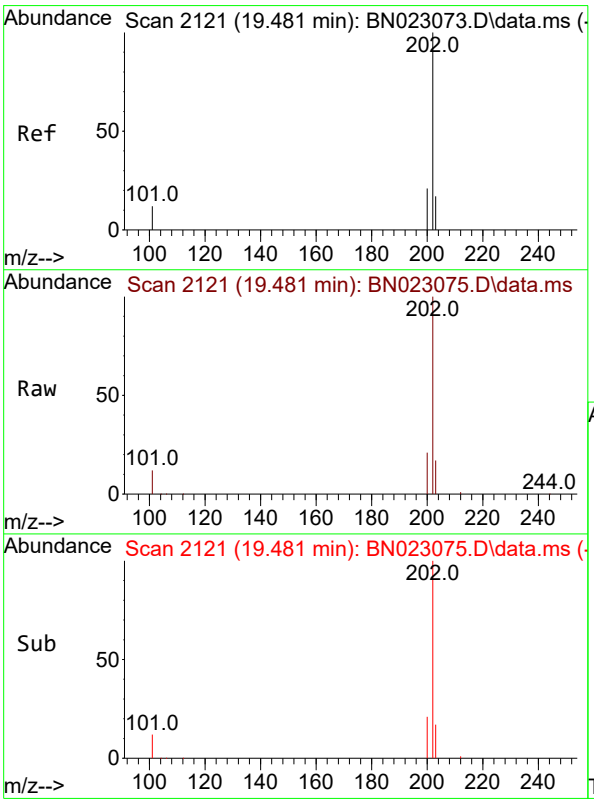
#27
Fluoranthene-d10
Concen: 1.630 ng
RT: 19.452 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 103558

Ion	Ratio	Lower	Upper
212	100		
106	16.6	13.0	19.6
104	9.2	7.4	11.0

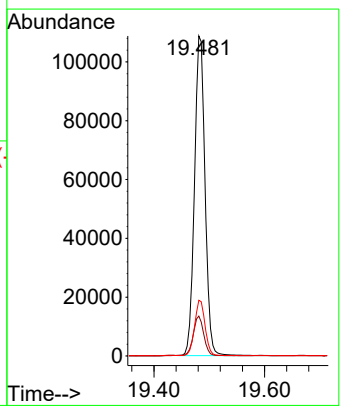


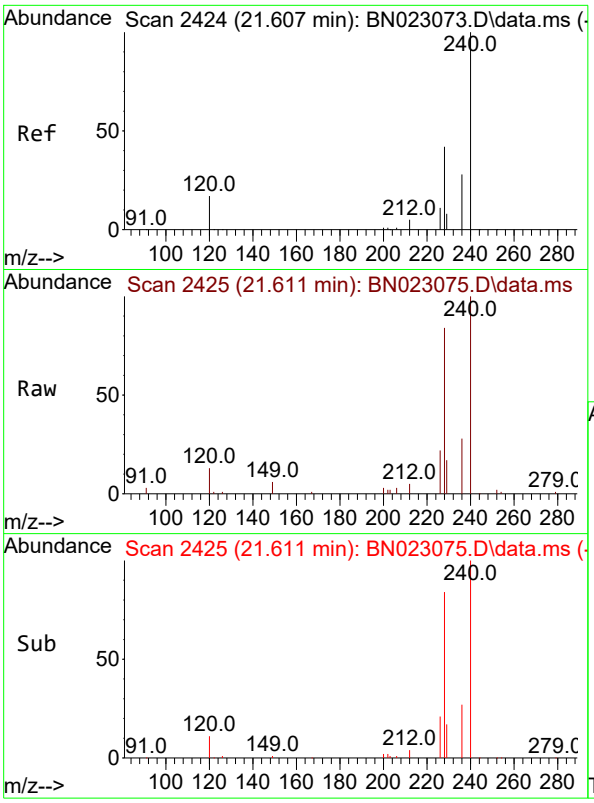


#28
Fluoranthene
Concen: 1.665 ng
RT: 19.481 min Scan# 2121
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:202 Resp: 143471

Ion	Ratio	Lower	Upper
202	100		
101	12.5	10.2	15.2
203	17.1	13.7	20.5



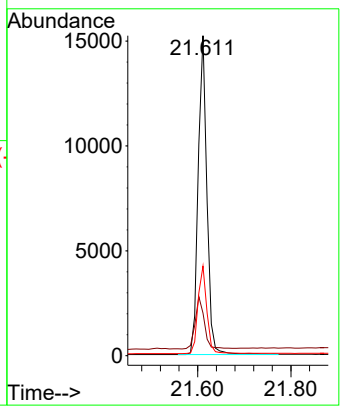


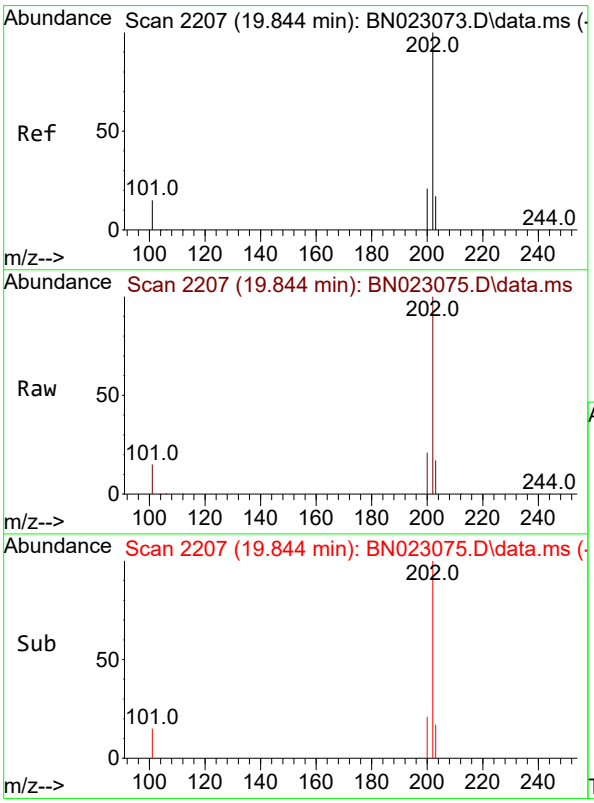
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.611 min Scan# 24
Delta R.T. 0.004 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 19895

Ion	Ratio	Lower	Upper
240	100		
120	13.3	14.8	22.2#
236	28.0	22.8	34.2

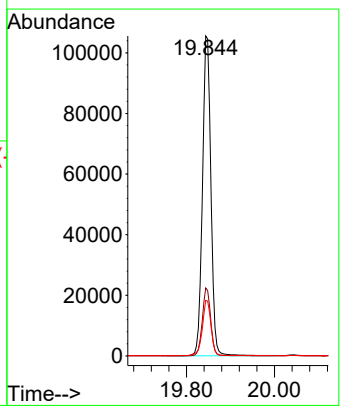


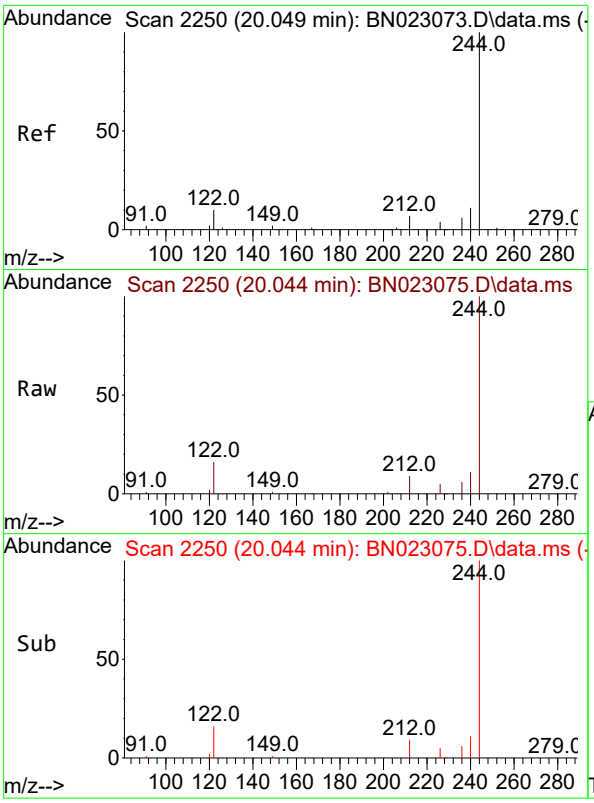


#30
Pyrene
Concen: 1.665 ng
RT: 19.844 min Scan# 2207
Delta R.T. -0.000 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:202 Resp: 139913

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.7	14.2	21.2



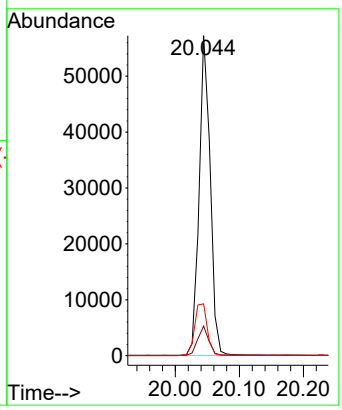


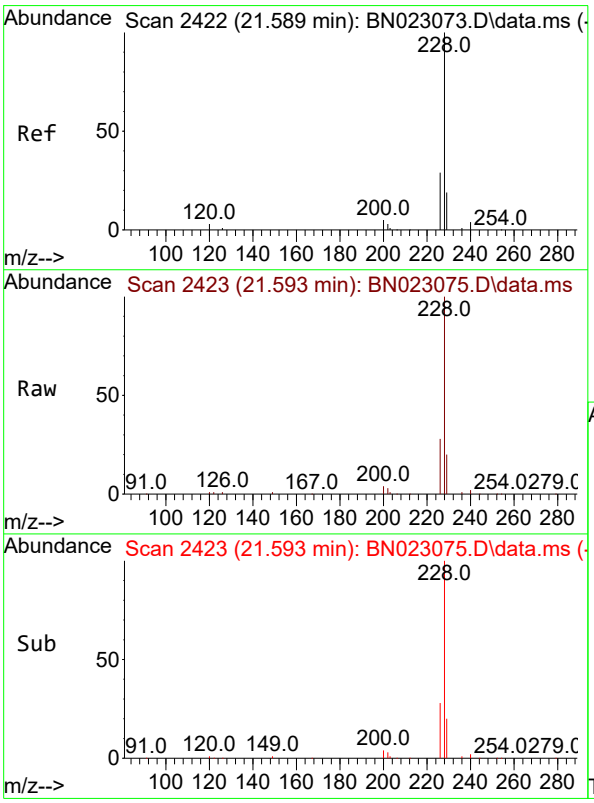
#31
Terphenyl-d14
Concen: 1.647 ng
RT: 20.044 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 66998

Ion	Ratio	Lower	Upper
244	100		
212	9.3	6.2	9.2#
122	16.2	8.1	12.1#

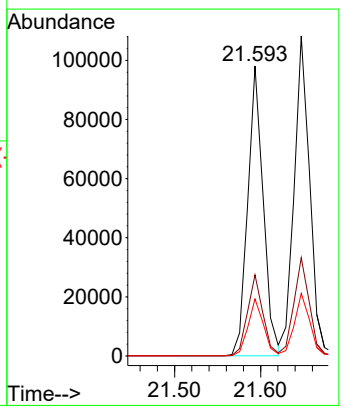


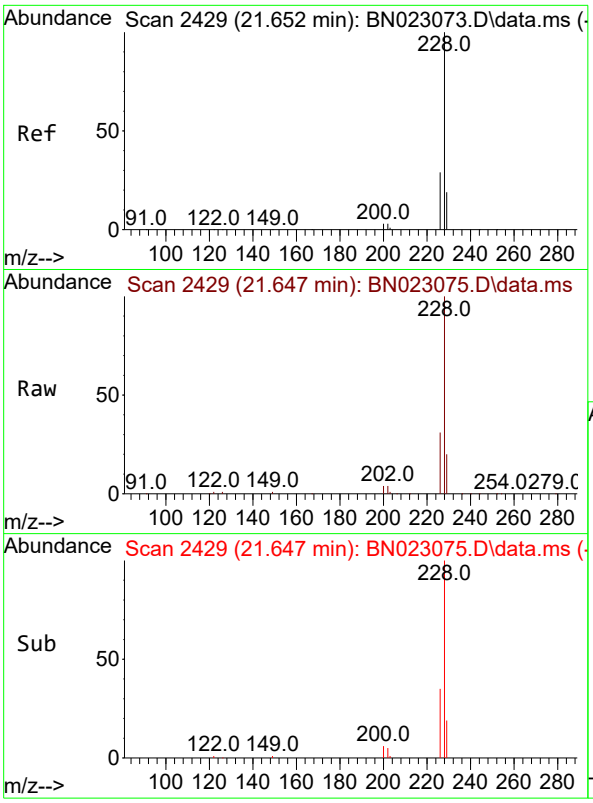


#32
Benzo(a)anthracene
Concen: 1.669 ng
RT: 21.593 min Scan# 2423
Delta R.T. 0.004 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:228 Resp: 122764

Ion	Ratio	Lower	Upper
228	100		
226	28.0	23.0	34.4
229	19.6	15.4	23.0



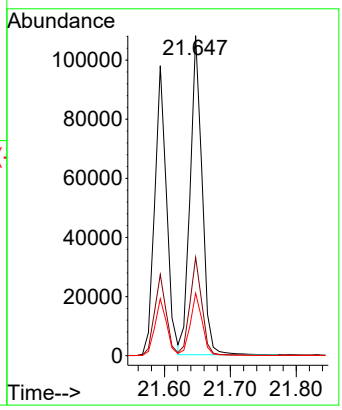


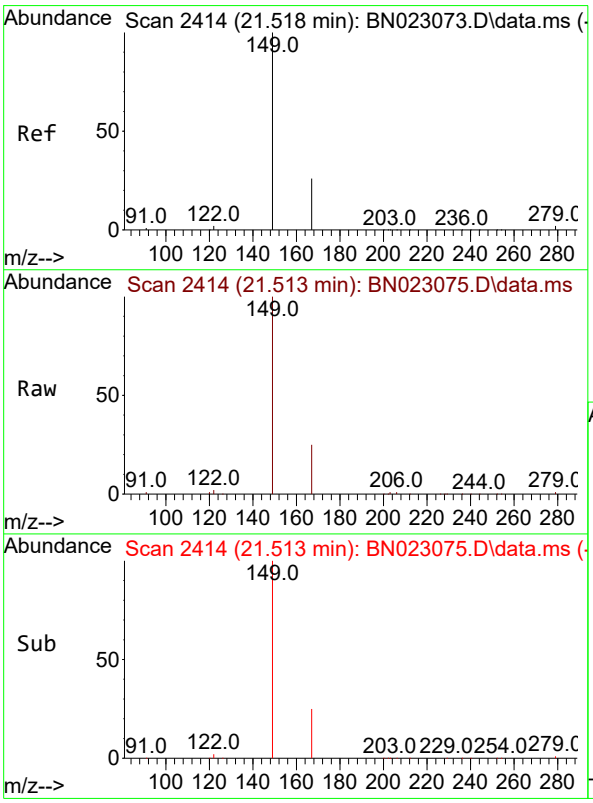
#33
Chrysene
Concen: 1.667 ng
RT: 21.647 min Scan# 24
Delta R.T. -0.005 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 136046

Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.7	35.5
229	19.6	15.7	23.5

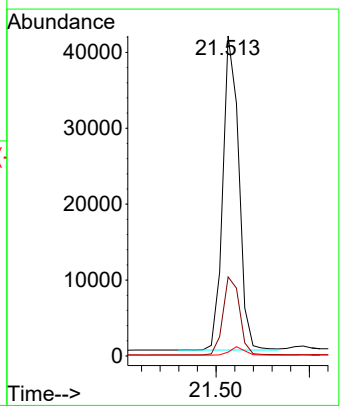


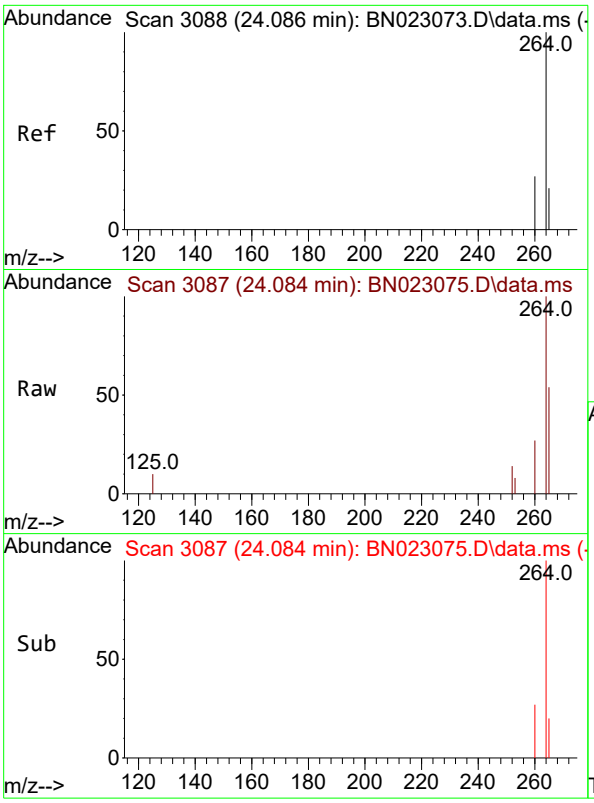


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.707 ng
RT: 21.513 min Scan# 2414
Delta R.T. -0.005 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:149 Resp: 49157

Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.6	31.0
279	2.5	2.2	3.2



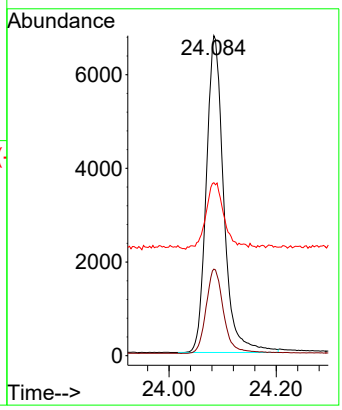


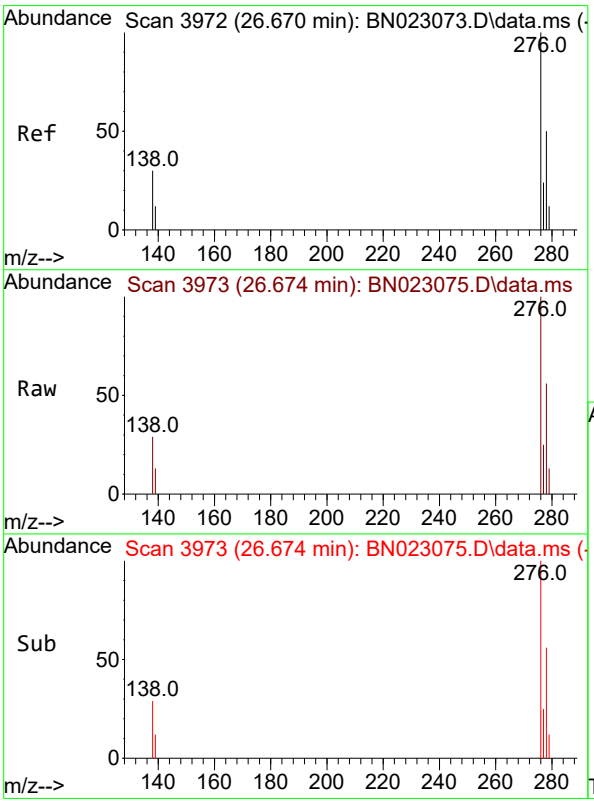
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.084 min Scan# 3
Delta R.T. -0.002 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 15276

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	54.0	34.6	52.0#

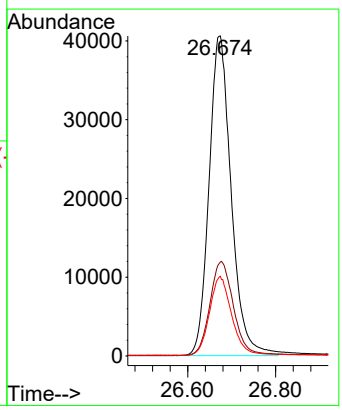


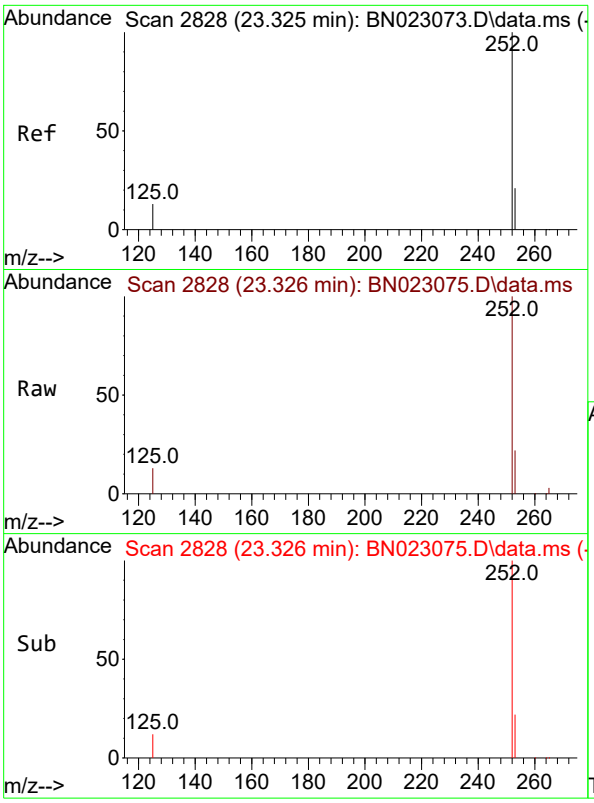


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.723 ng
RT: 26.674 min Scan# 3973
Delta R.T. 0.004 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:276 Resp: 141981

Ion	Ratio	Lower	Upper
276	100		
138	31.1	24.8	37.2
277	24.8	19.6	29.4



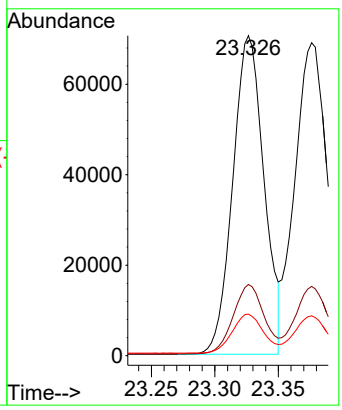


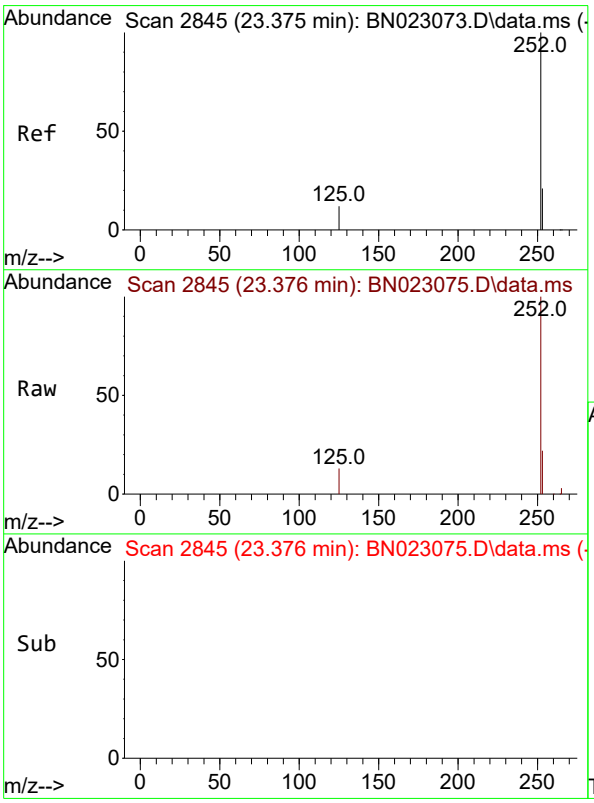
#37
Benzo(b)fluoranthene
Concen: 1.719 ng
RT: 23.326 min Scan# 2
Delta R.T. 0.001 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 120112

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.4	27.6
125	13.0	12.1	18.1

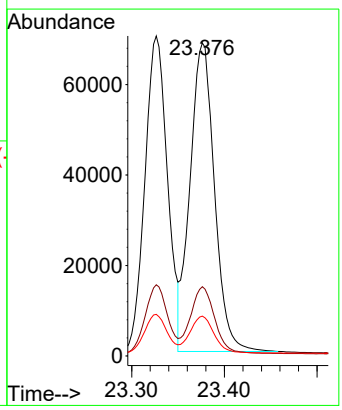


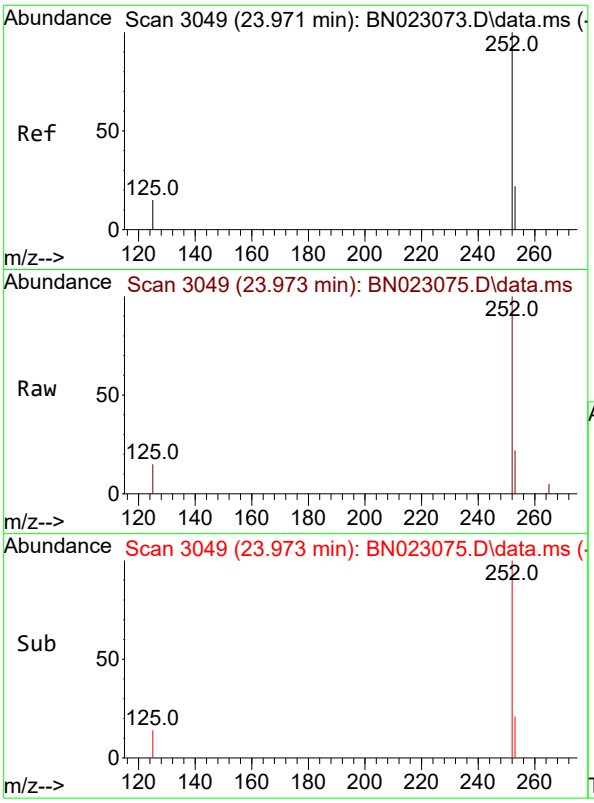


#38
Benzo(k)fluoranthene
Concen: 1.745 ng
RT: 23.376 min Scan# 2845
Delta R.T. 0.001 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:252 Resp: 125245

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.5	27.7
125	12.7	11.6	17.4



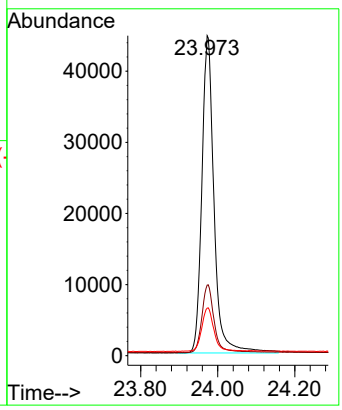


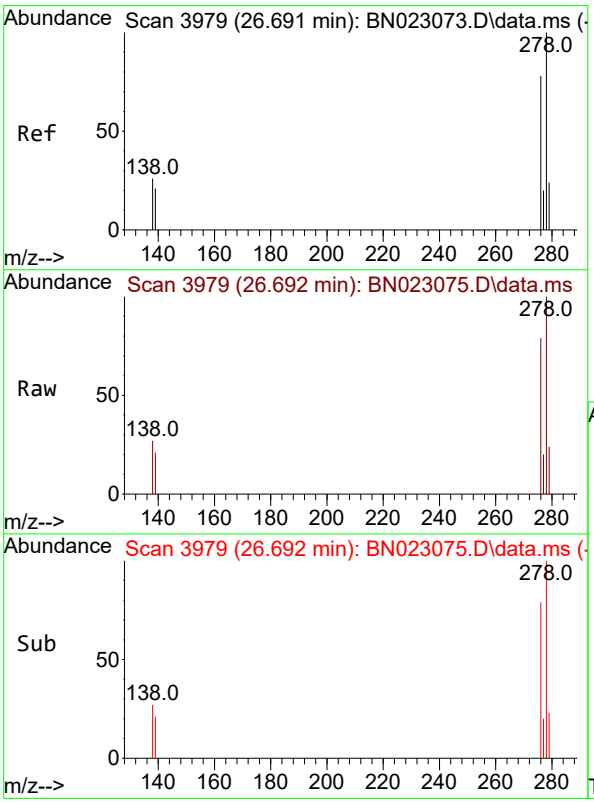
#39
Benzo(a)pyrene
Concen: 1.787 ng
RT: 23.973 min Scan# 3
Delta R.T. 0.001 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 97966

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.6	29.4
125	14.8	15.3	22.9#

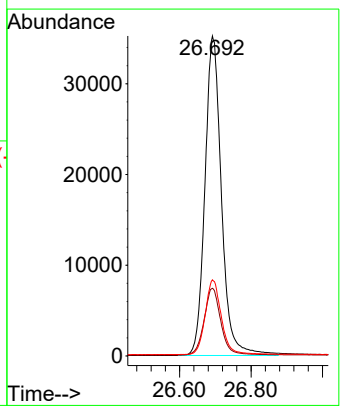


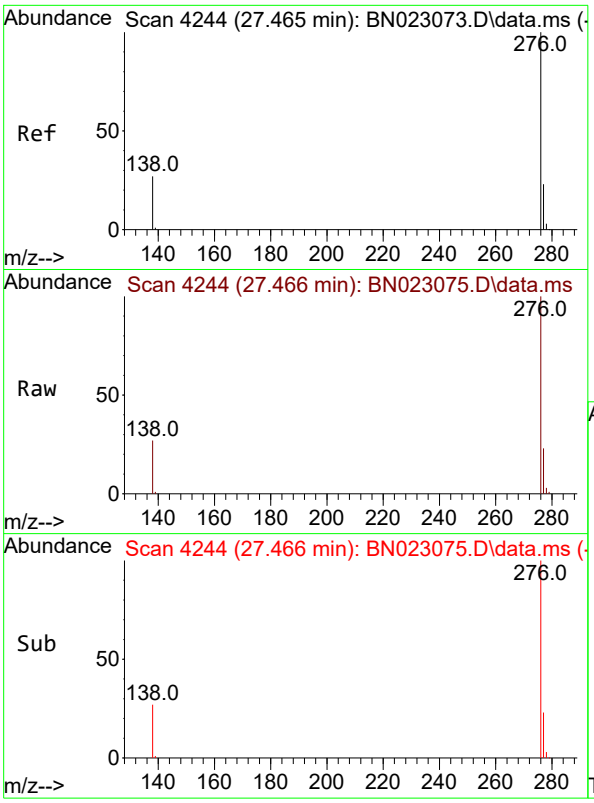


#40
Dibenzo(a,h)anthracene
Concen: 1.724 ng
RT: 26.692 min Scan# 3979
Delta R.T. 0.001 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Tgt Ion:278 Resp: 113341

Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.4	26.2
279	23.8	20.1	30.1





#41
Benzo(g,h,i)perylene
Concen: 1.690 ng
RT: 27.466 min Scan# 4
Delta R.T. 0.001 min
Lab File: BN023075.D
Acq: 06 Dec 2022 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 116268

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.6
138	26.9	21.8	32.8