Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100223\
Data File : BN027990.D
Acq On : 02 Oct 2023 16:50
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Oct 02 17:49:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 02 16:50:51 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.950	152	4207	0.400	ng		0.00
7) Naphthalene-d8	10.767	136	14152	0.400	ng		0.00
13) Acenaphthene-d10	14.598	164	8428	0.400	ng		0.00
19) Phenanthrene-d10	17.343	188	18298	0.400	ng		0.00
29) Chrysene-d12	21.533	240	16596	0.400	ng		0.00
35) Perylene-d12	24.010	264	14375	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.480	112	10819	1.004	ng		0.00
5) Phenol-d6	7.105	99	13691	1.014	ng		0.00
8) Nitrobenzene-d5	9.144	82	9781	0.871	ng		0.00
11) 2-Methylnaphthalene-d10	12.351	152	17410	0.852	ng		0.00
14) 2,4,6-Tribromophenol	16.090	330	3207	0.883	ng		0.00
15) 2-Fluorobiphenyl	13.219	172	25044	0.874	ng		0.00
27) Fluoranthene-d10	19.379	212	39043	0.822	ng		0.00
31) Terphenyl-d14	19.964	244	31512	0.965	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.364	88	4106	0.806	ng		98
3) n-Nitrosodimethylamine	3.711	42	4651	0.799	ng	#	99
6) bis(2-Chloroethyl)ether	7.387	93	10928	0.851	ng		100
9) Naphthalene	10.821	128	30132	0.783	ng		99
10) Hexachlorobutadiene	11.045	225	5352	0.799	ng	#	100
12) 2-Methylnaphthalene	12.426	142	21194	0.791	ng		100
16) Acenaphthylene	14.320	152	30671	0.849	ng		100
17) Acenaphthene	14.651	154	19743	0.788	ng		99
18) Fluorene	15.643	166	26021	0.726	ng		99
20) 4,6-Dinitro-2-methylph...	16.797	198	180	0.664	ng	#	73
21) 4-Bromophenyl-phenylether	16.524	248	7798	0.832	ng		95
22) Hexachlorobenzene	16.611	284	8285	0.786	ng		100
23) Atrazine	16.797	200	6828	0.955	ng		98
24) Pentachlorophenol	16.983	266	3793	0.861	ng		94
25) Phenanthrene	17.393	178	40772	0.773	ng		99
26) Anthracene	17.480	178	38516	0.837	ng		100
28) Fluoranthene	19.407	202	48316	0.746	ng		99
30) Pyrene	19.774	202	49583	0.837	ng		99
32) Benzo(a)anthracene	21.515	228	46596	0.811	ng		100
33) Chrysene	21.569	228	46019	0.745	ng		99
34) Bis(2-ethylhexyl)phtha...	21.390	149	31461	1.145	ng	#	97
36) Indeno(1,2,3-cd)pyrene	26.612	276	38600	0.654	ng		99
37) Benzo(b)fluoranthene	23.241	252	39004	0.702	ng		94
38) Benzo(k)fluoranthene	23.291	252	39462	0.700	ng		94
39) Benzo(a)pyrene	23.899	252	36315	0.718	ng	#	91
40) Dibenzo(a,h)anthracene	26.633	278	31738	0.659	ng		93
41) Benzo(g,h,i)perylene	27.422	276	32279	0.615	ng		97

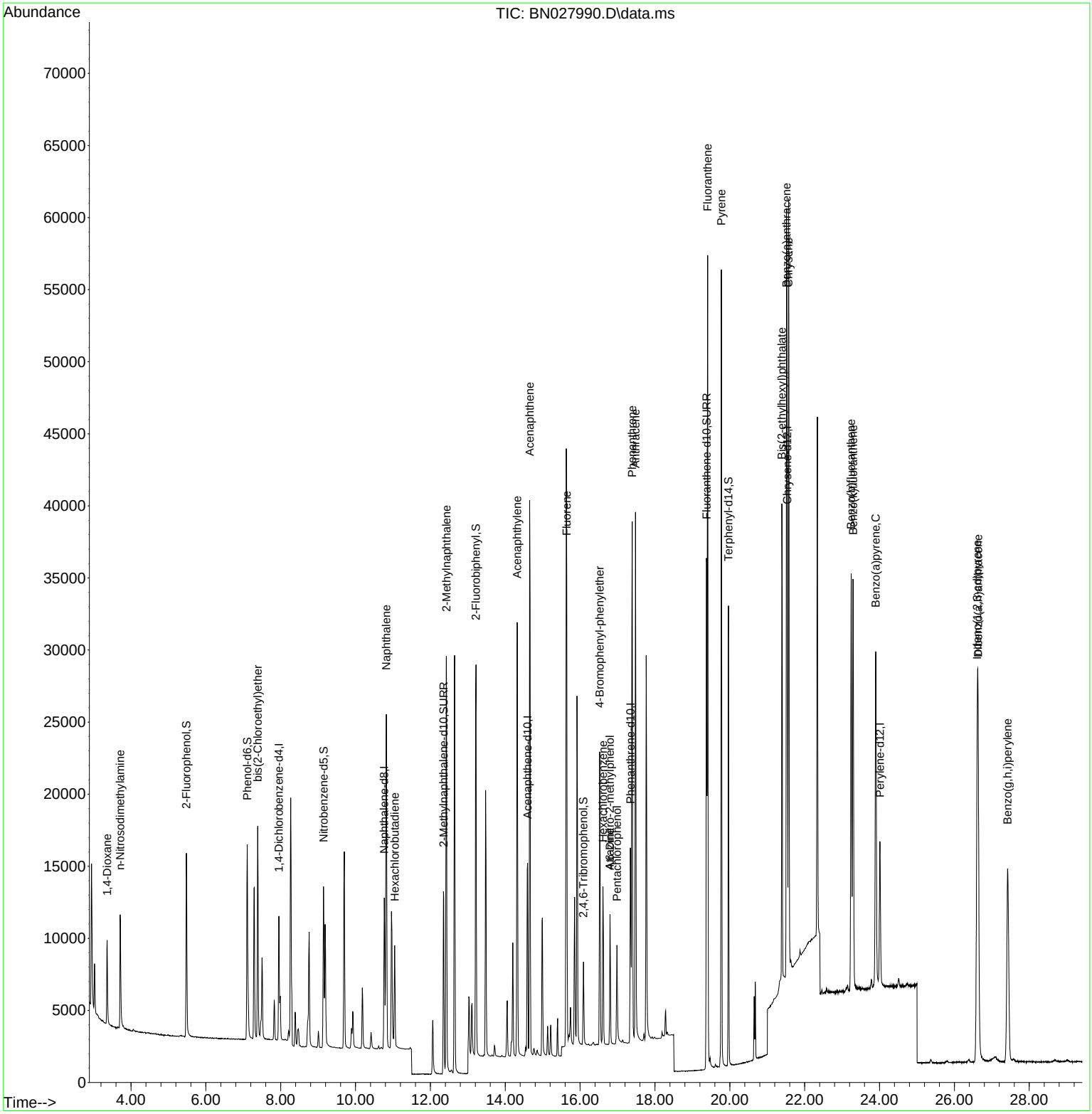
(#) = qualifier out of range (m) = manual integration (+) = signals summed

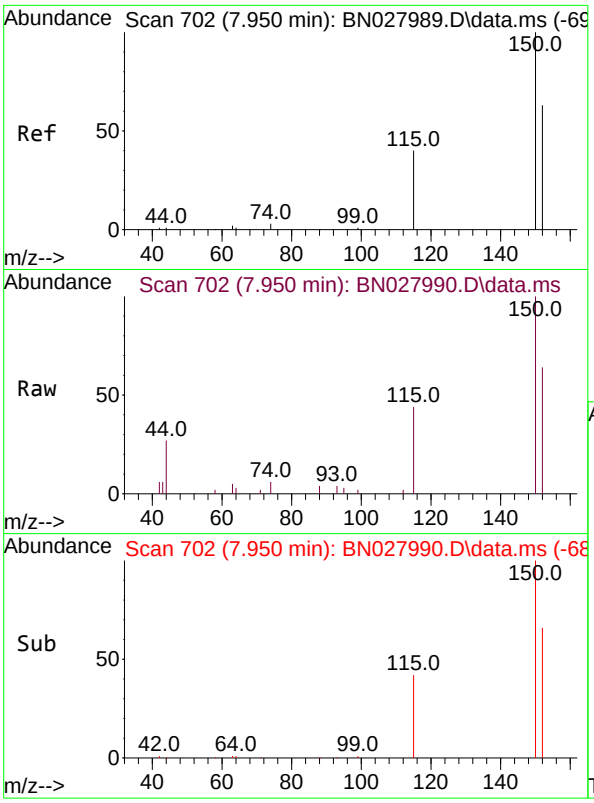
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100223\
Data File : BN027990.D
Acq On : 02 Oct 2023 16:50
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Oct 02 17:49:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 02 16:50:51 2023
Response via : Initial Calibration



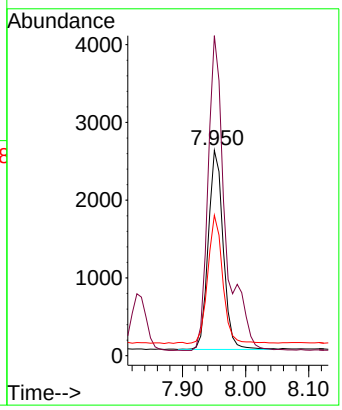


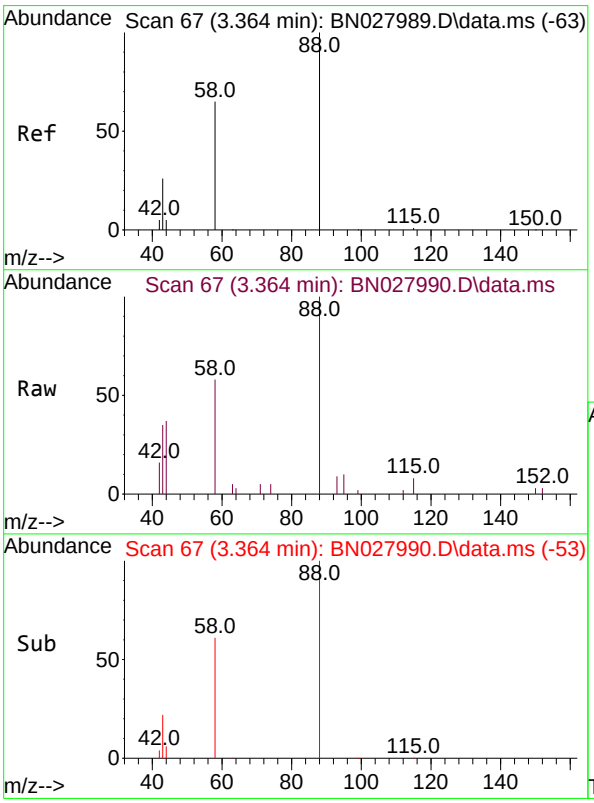
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.950 min Scan# 7(
Delta R.T. 0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 4207

Ion	Ratio	Lower	Upper
152	100		
150	155.9	125.6	188.4
115	68.4	54.8	82.2

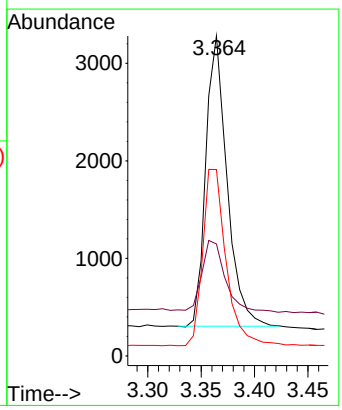


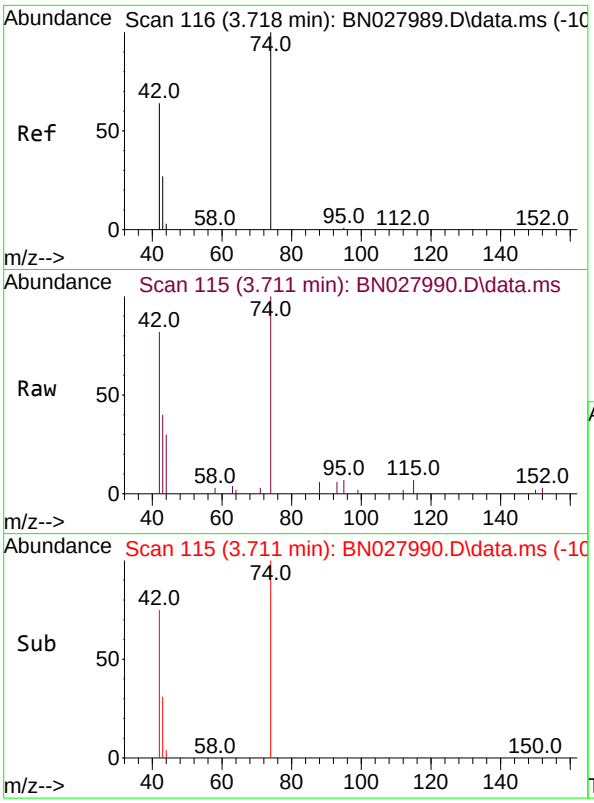


#2
1,4-Dioxane
Concen: 0.806 ng
RT: 3.364 min Scan# 67
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion: 88 Resp: 4106

Ion	Ratio	Lower	Upper
88	100		
43	27.7	24.6	36.8
58	67.0	53.8	80.6



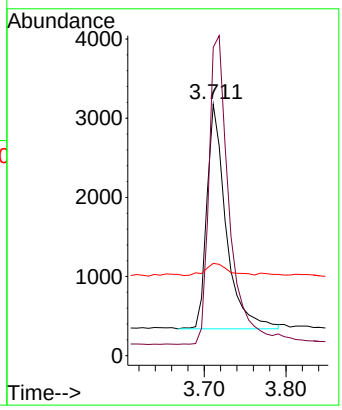


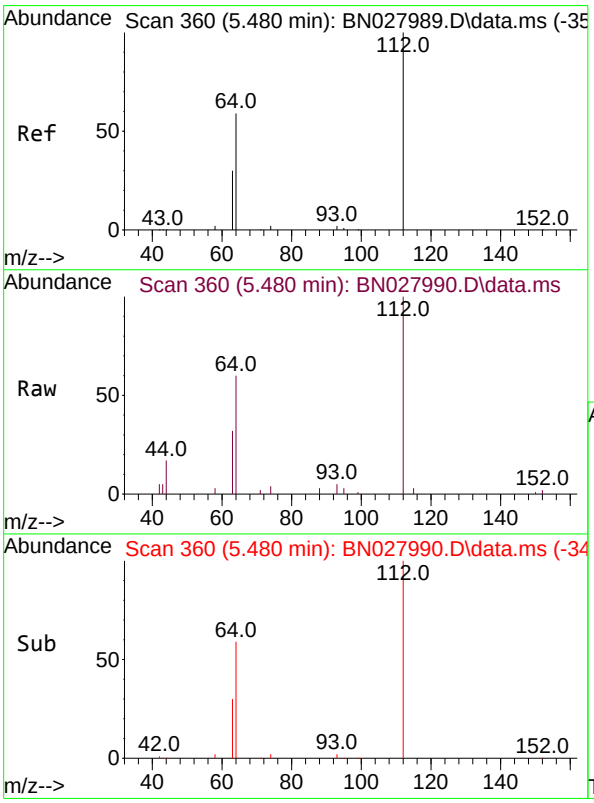
#3
n-Nitrosodimethylamine
Concen: 0.799 ng
RT: 3.711 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 4651

Ion	Ratio	Lower	Upper
42	100		
74	144.5	115.9	173.9
44	6.3	8.0	12.0#

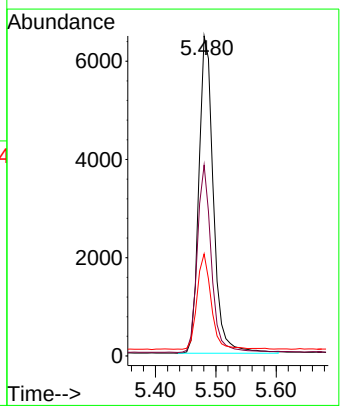


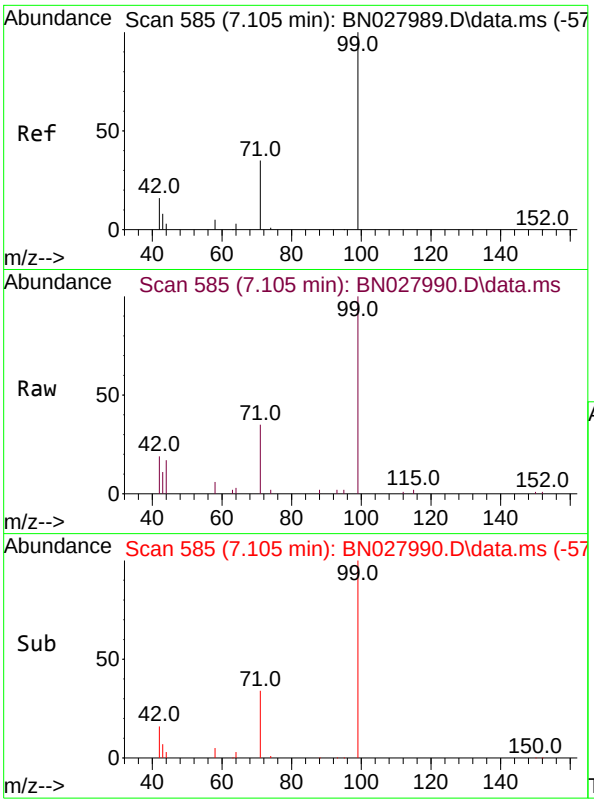


#4
2-Fluorophenol
Concen: 1.004 ng
RT: 5.480 min Scan# 360
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:112 Resp: 10819

Ion	Ratio	Lower	Upper
112	100		
64	57.2	45.0	67.6
63	29.1	23.4	35.0



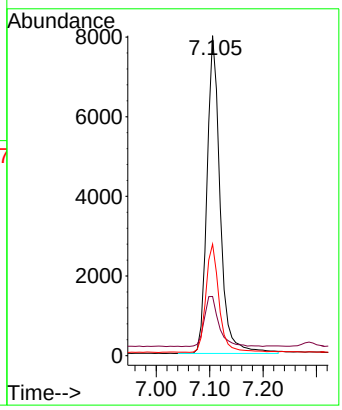


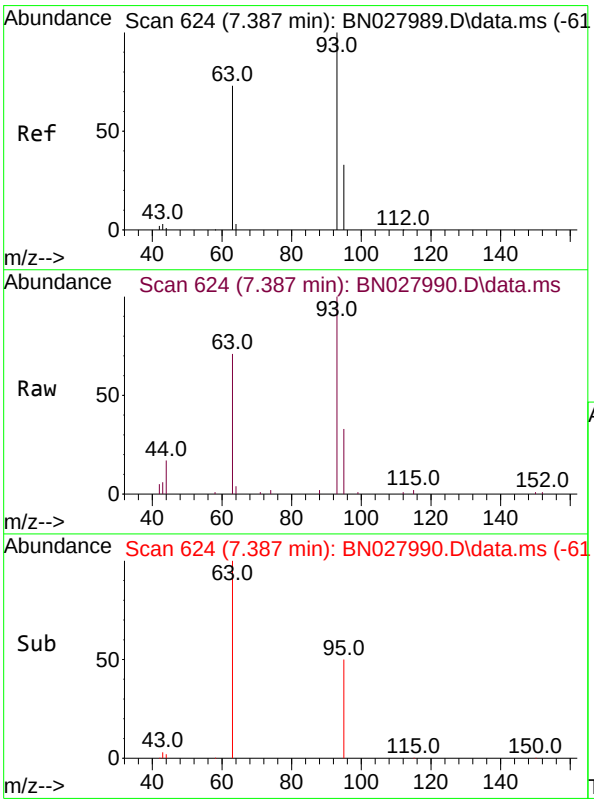
#5
Phenol-d6
Concen: 1.014 ng
RT: 7.105 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 13691

Ion	Ratio	Lower	Upper
99	100		
42	17.6	14.6	22.0
71	34.5	28.3	42.5

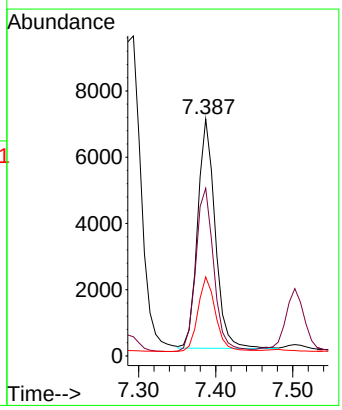


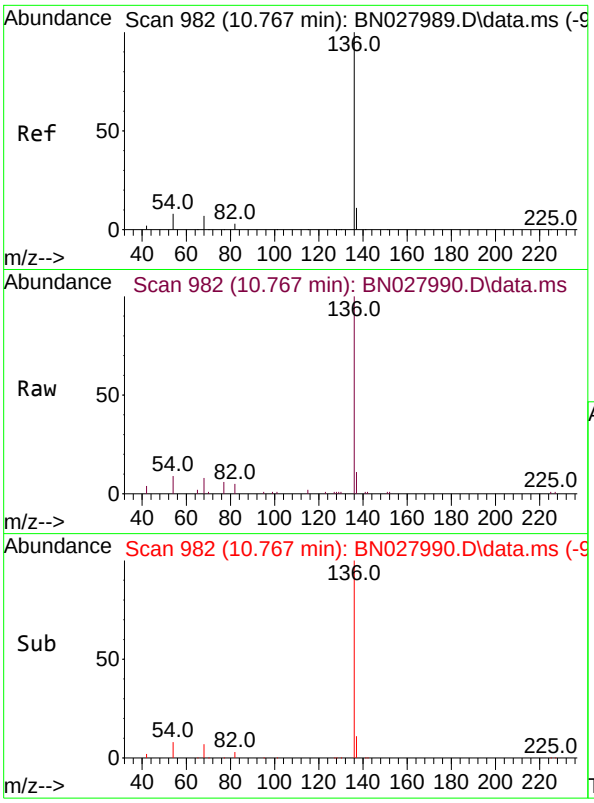


#6
bis(2-Chloroethyl)ether
Concen: 0.851 ng
RT: 7.387 min Scan# 624
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion: 93 Resp: 10928

Ion	Ratio	Lower	Upper
93	100		
63	73.3	58.8	88.2
95	32.8	26.6	39.8



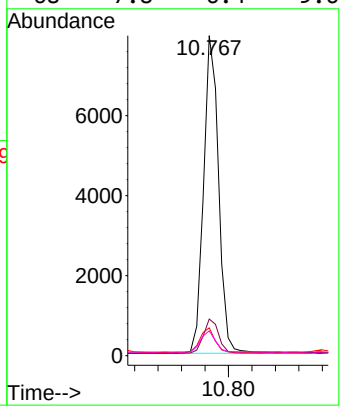


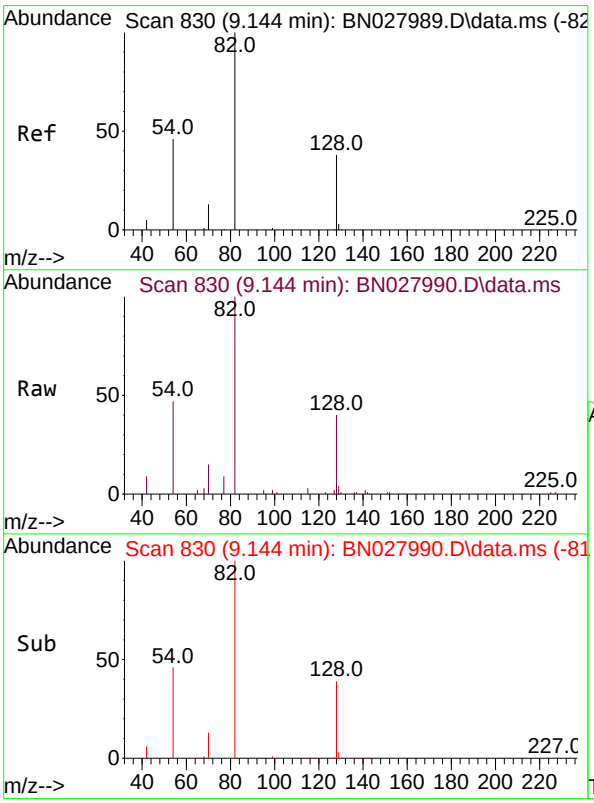
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.767 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 14152

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.4	14.0
54	8.7	7.0	10.6
68	7.8	6.4	9.6

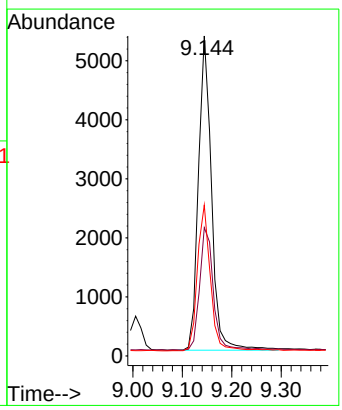


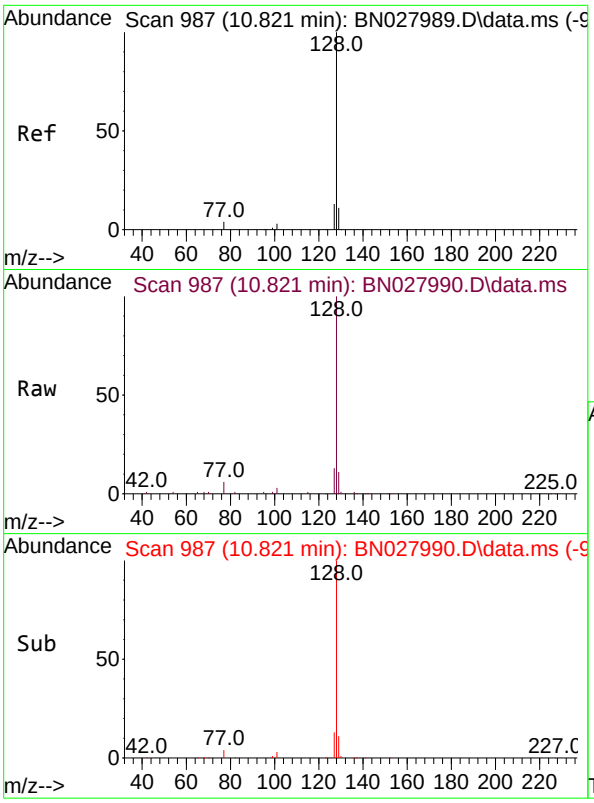


#8
Nitrobenzene-d5
Concen: 0.871 ng
RT: 9.144 min Scan# 830
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion: 82 Resp: 9781

Ion	Ratio	Lower	Upper
82	100		
128	40.1	32.7	49.1
54	47.1	38.7	58.1



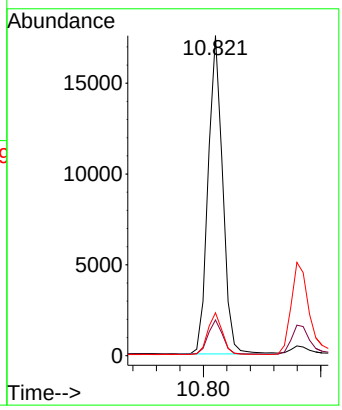


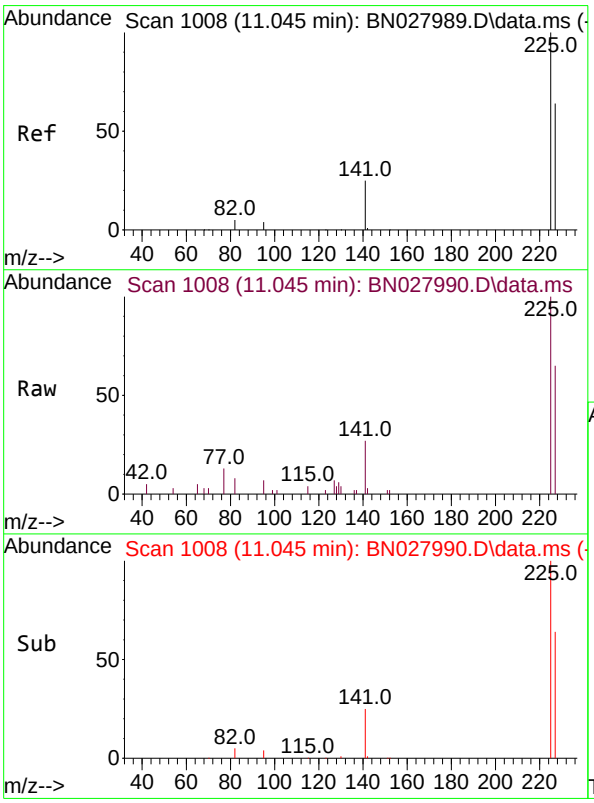
#9
Naphthalene
Concen: 0.783 ng
RT: 10.821 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 30132

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.4	14.2
127	13.4	10.9	16.3

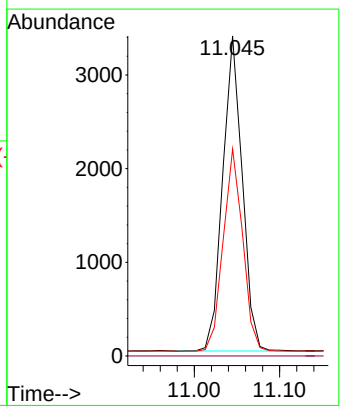


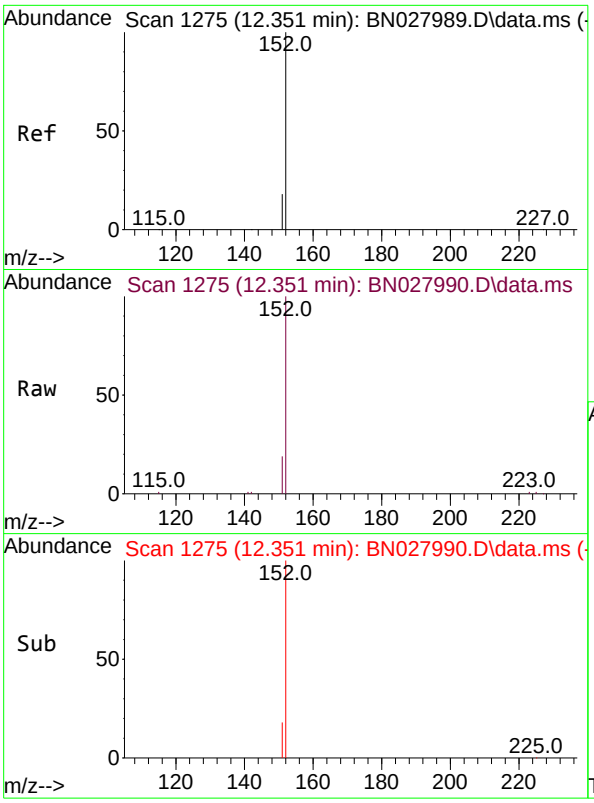


#10
Hexachlorobutadiene
Concen: 0.799 ng
RT: 11.045 min Scan# 1008
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:225 Resp: 5352

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



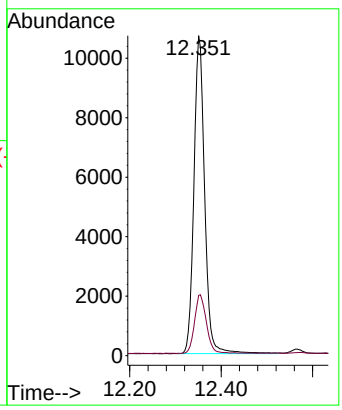


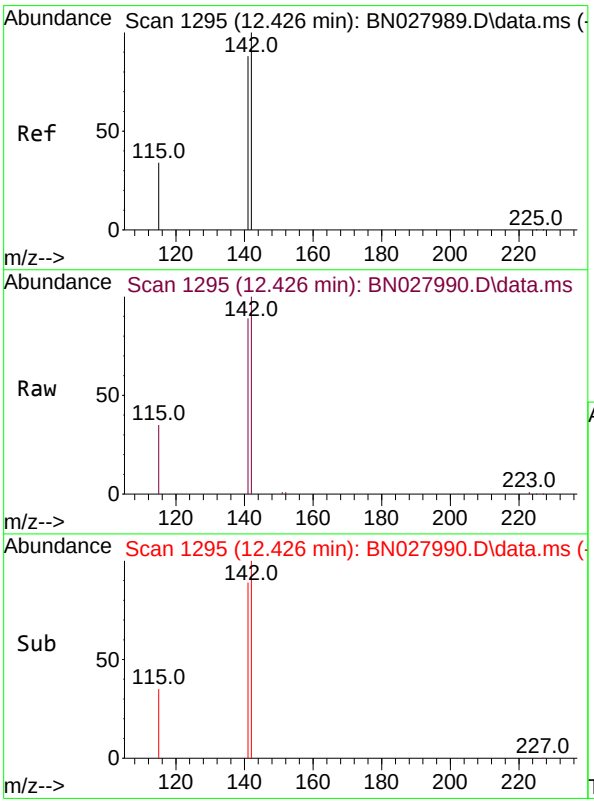
#11
2-Methylnaphthalene-d10
Concen: 0.852 ng
RT: 12.351 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 17410

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.5	24.7

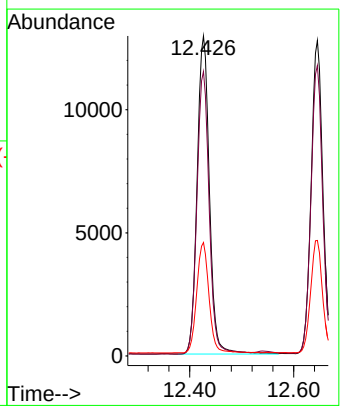


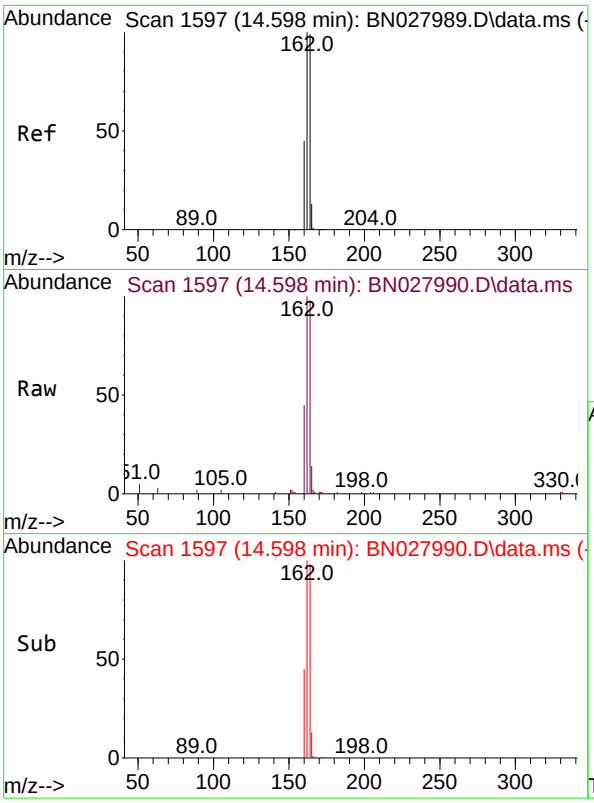


#12
2-Methylnaphthalene
Concen: 0.791 ng
RT: 12.426 min Scan# 1295
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:142 Resp: 21194

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.7	106.1
115	35.5	28.6	42.8



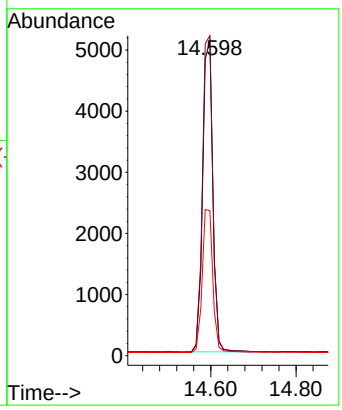


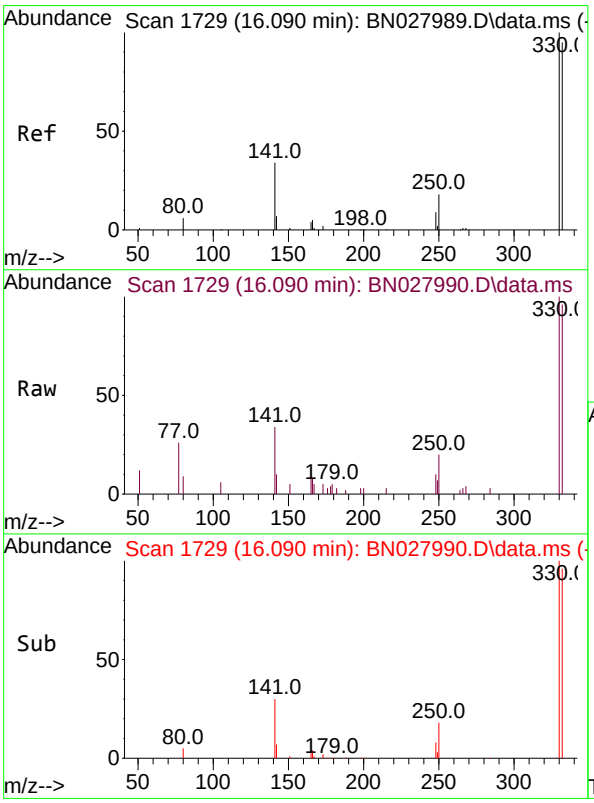
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.598 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 8428

Ion	Ratio	Lower	Upper
164	100		
162	101.5	80.8	121.2
160	46.0	36.4	54.6

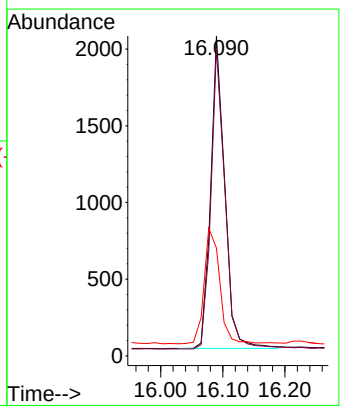


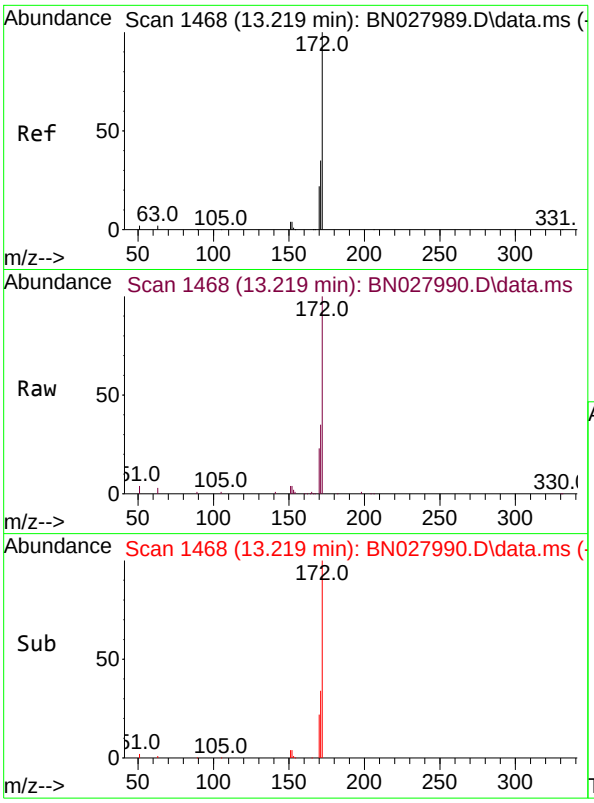


#14
2,4,6-Tribromophenol
Concen: 0.883 ng
RT: 16.090 min Scan# 1729
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:330 Resp: 3207

Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.1	117.1
141	41.3	33.4	50.2



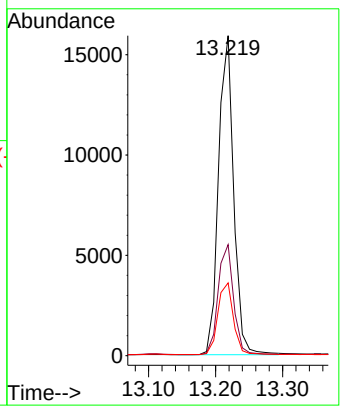


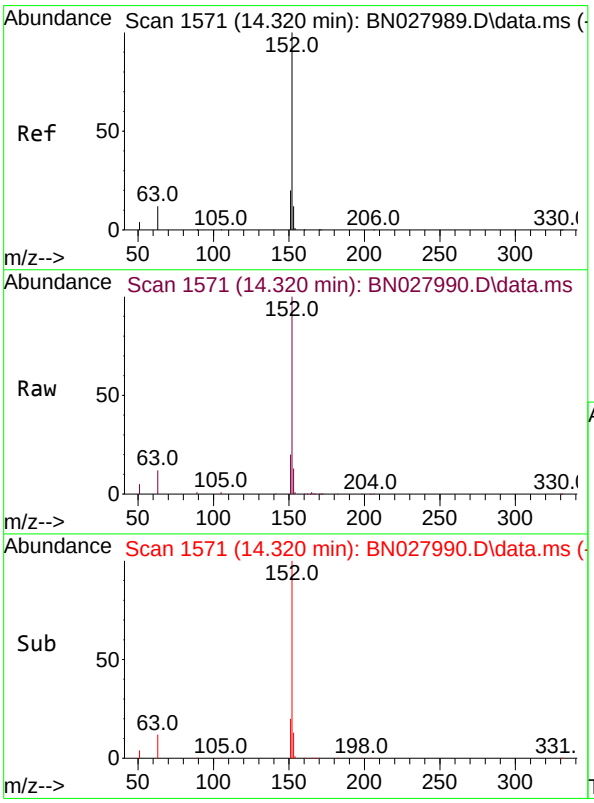
#15
2-Fluorobiphenyl
Concen: 0.874 ng
RT: 13.219 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 25044

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.1	42.1
170	22.8	18.4	27.6

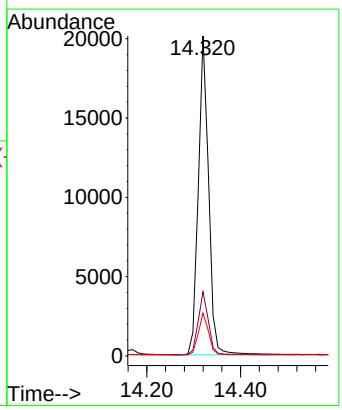


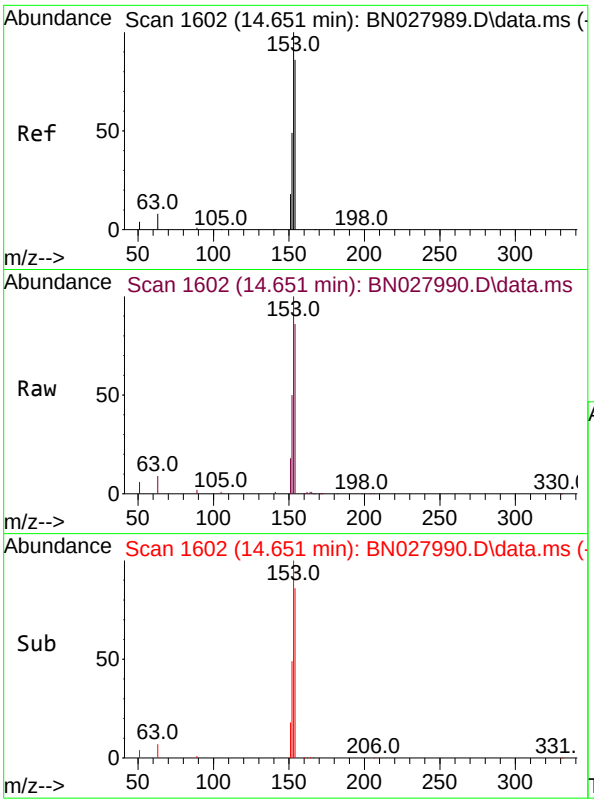


#16
Acenaphthylene
Concen: 0.849 ng
RT: 14.320 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:152 Resp: 30671

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	13.1	10.2	15.4



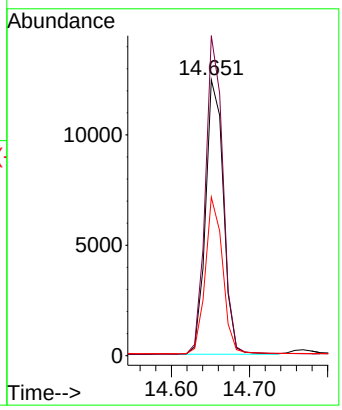


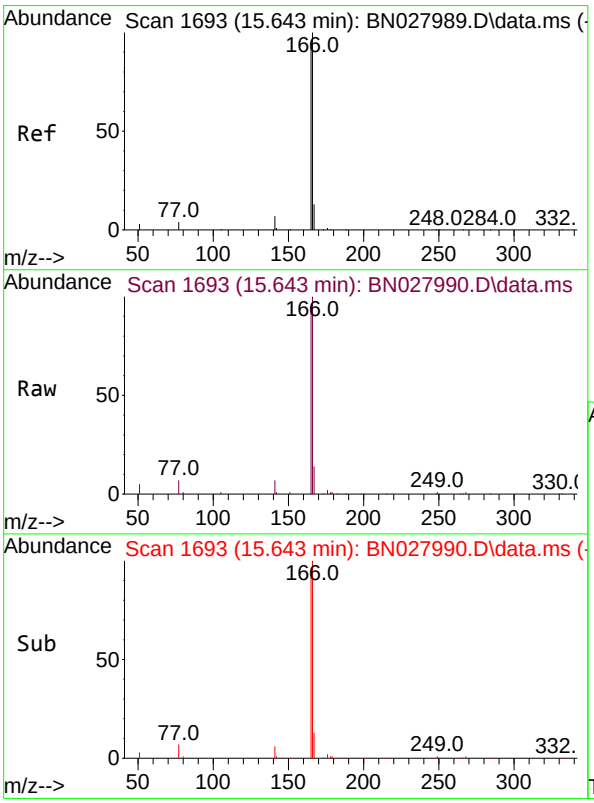
#17
Acenaphthene
Concen: 0.788 ng
RT: 14.651 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 19743

Ion	Ratio	Lower	Upper
154	100		
153	114.1	90.8	136.2
152	55.7	43.9	65.9

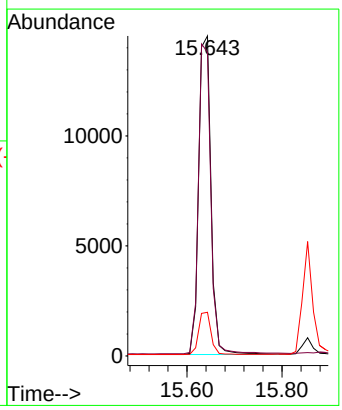


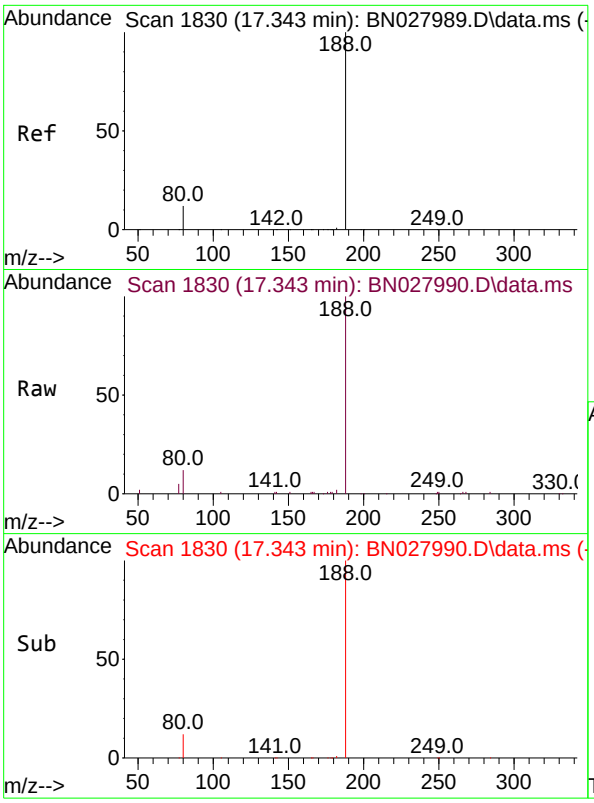


#18
Fluorene
Concen: 0.726 ng
RT: 15.643 min Scan# 1693
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:166 Resp: 26021

Ion	Ratio	Lower	Upper
166	100		
165	98.3	77.8	116.8
167	13.4	10.7	16.1



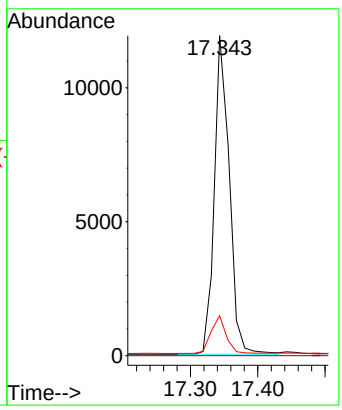


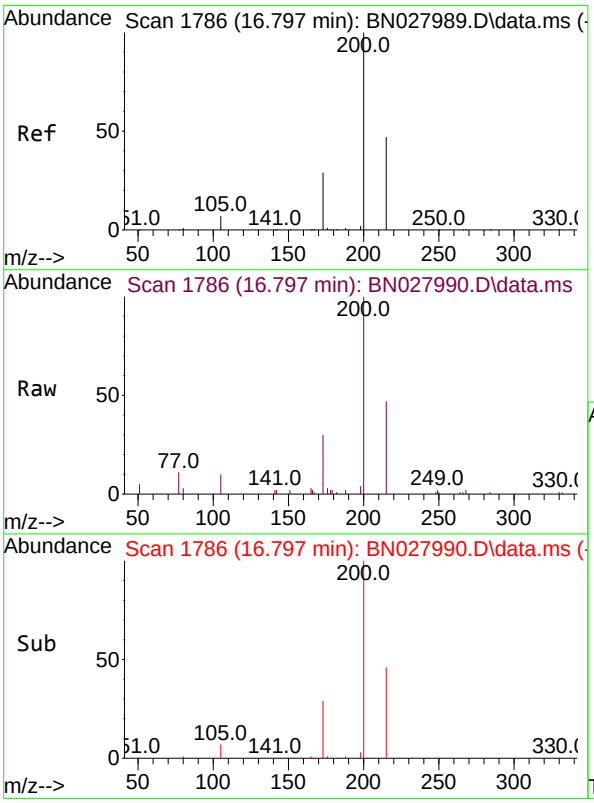
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 18298

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.5	10.2	15.4

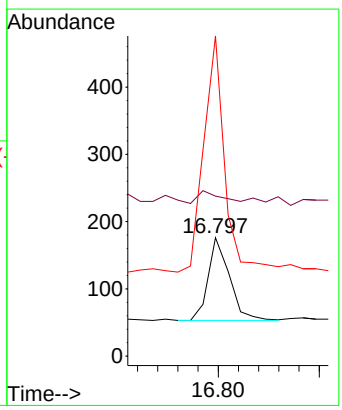


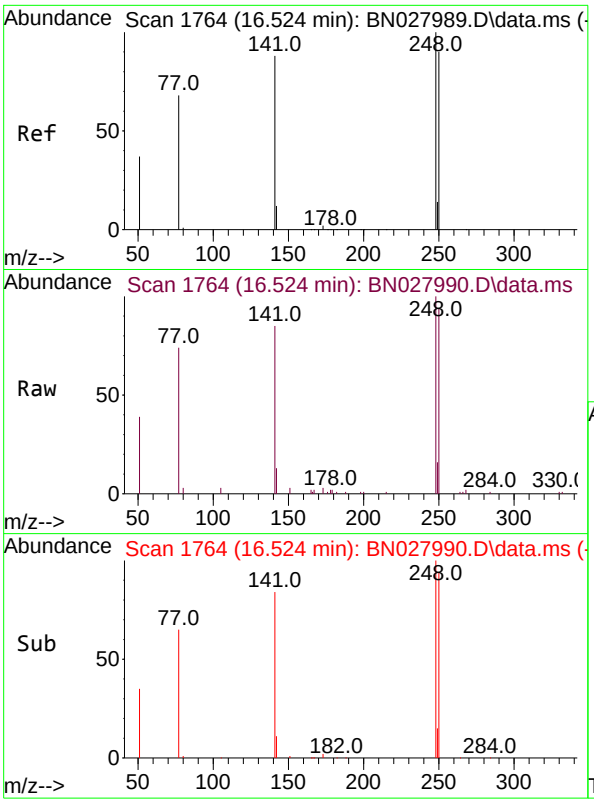


#20
4,6-Dinitro-2-methylphenol
Concen: 0.664 ng
RT: 16.797 min Scan# 1786
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:198 Resp: 180

Ion	Ratio	Lower	Upper
198	100		
51	135.2	180.7	271.1#
105	270.5	222.2	333.2



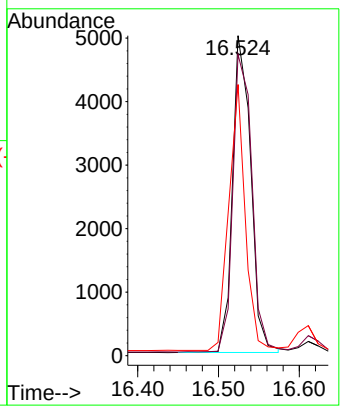


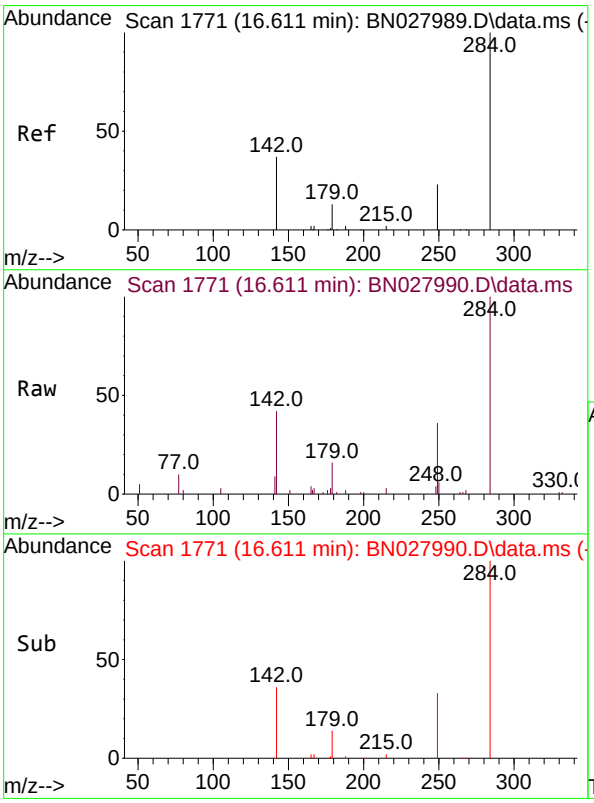
#21
4-Bromophenyl-phenylether
Concen: 0.832 ng
RT: 16.524 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 7798

Ion	Ratio	Lower	Upper
248	100		
250	94.1	72.3	108.5
141	84.8	71.8	107.6

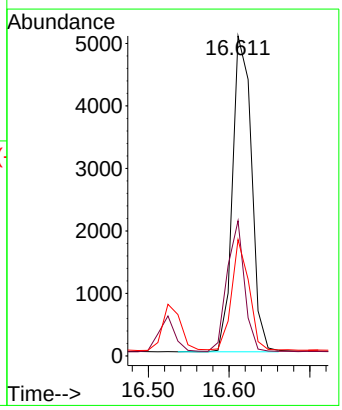


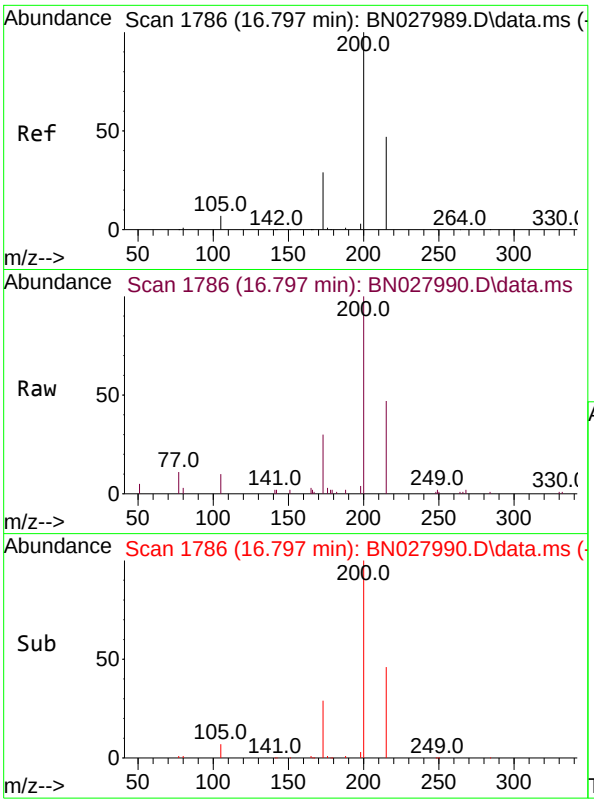


#22
Hexachlorobenzene
Concen: 0.786 ng
RT: 16.611 min Scan# 1771
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:284 Resp: 8285

Ion	Ratio	Lower	Upper
284	100		
142	37.6	29.9	44.9
249	31.5	25.0	37.4



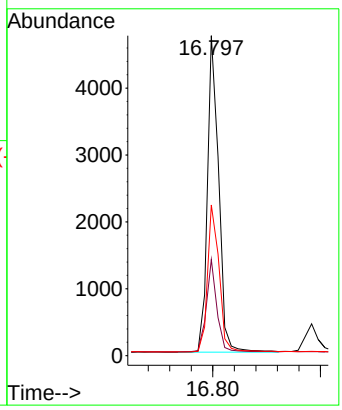


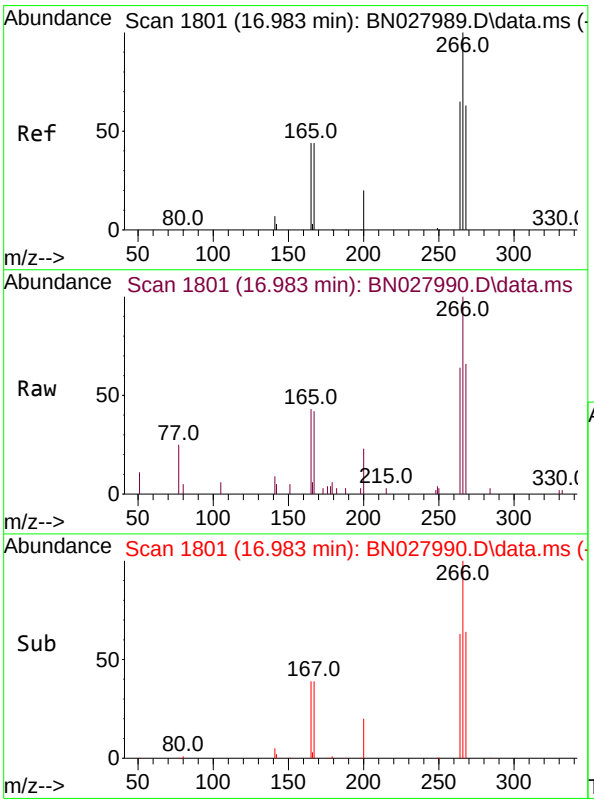
#23
Atrazine
Concen: 0.955 ng
RT: 16.797 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 6828

Ion	Ratio	Lower	Upper
200	100		
173	30.0	24.7	37.1
215	47.1	39.0	58.6

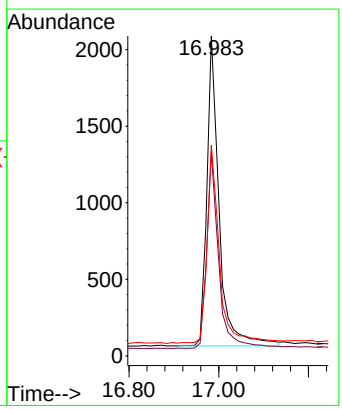


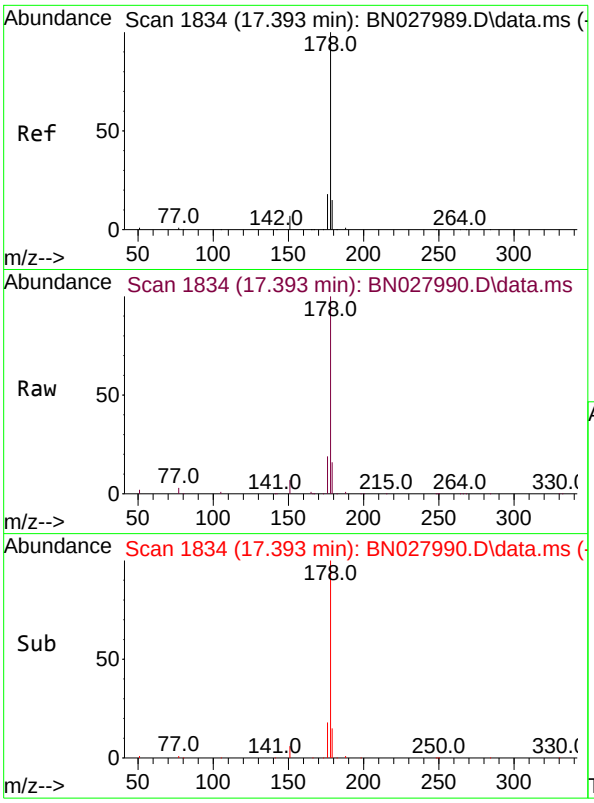


#24
Pentachlorophenol
Concen: 0.861 ng
RT: 16.983 min Scan# 1801
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:266 Resp: 3793

Ion	Ratio	Lower	Upper
266	100		
264	61.8	52.7	79.1
268	64.7	56.2	84.2



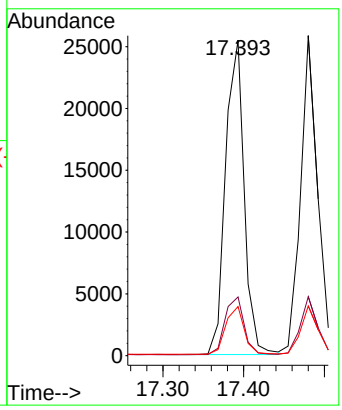


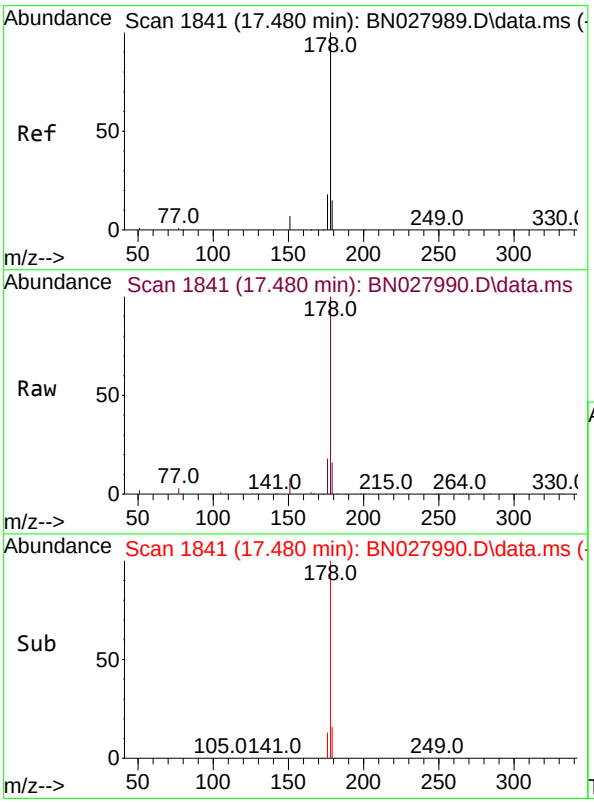
#25
Phenanthrene
Concen: 0.773 ng
RT: 17.393 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 40772

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.2	12.4	18.6

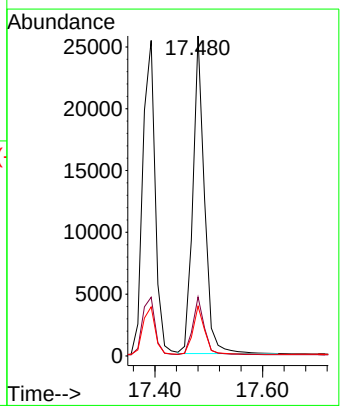


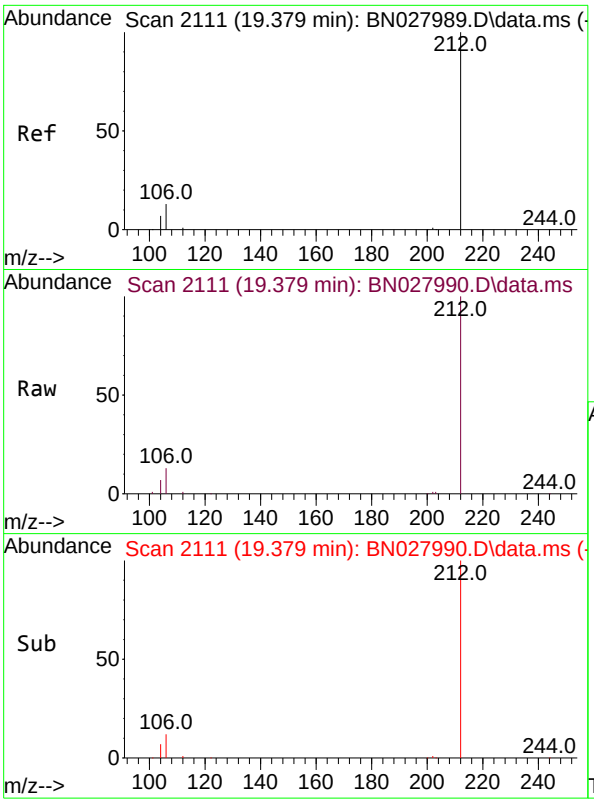


#26
Anthracene
Concen: 0.837 ng
RT: 17.480 min Scan# 1841
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:178 Resp: 38516

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.7	22.1
179	15.2	12.2	18.2



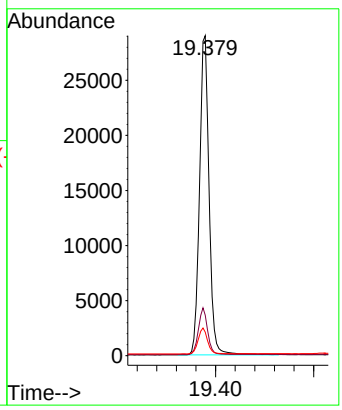


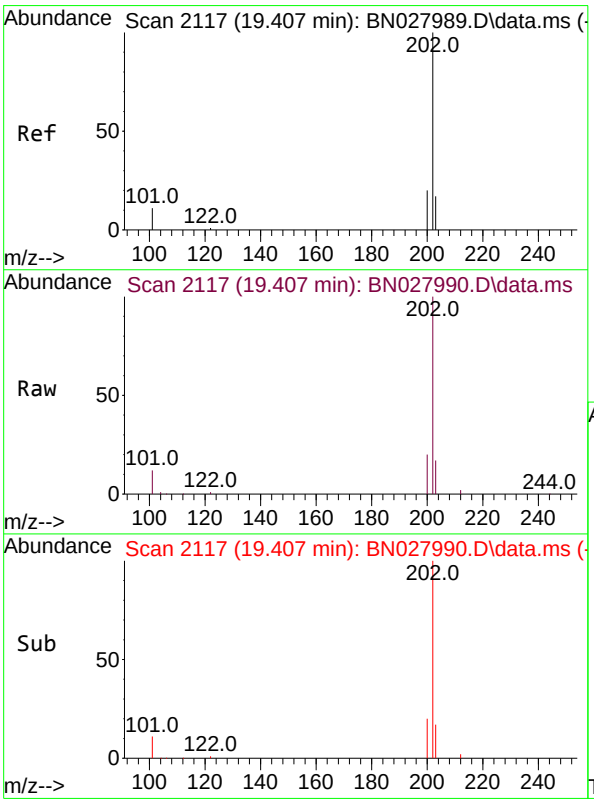
#27
Fluoranthene-d10
Concen: 0.822 ng
RT: 19.379 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 39043

Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.3	16.9
104	8.0	6.4	9.6

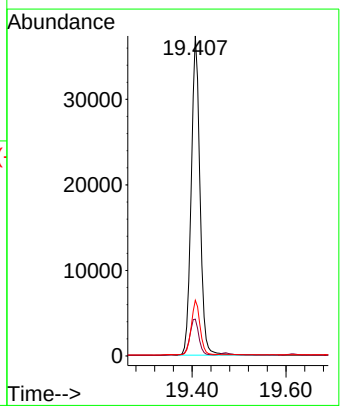


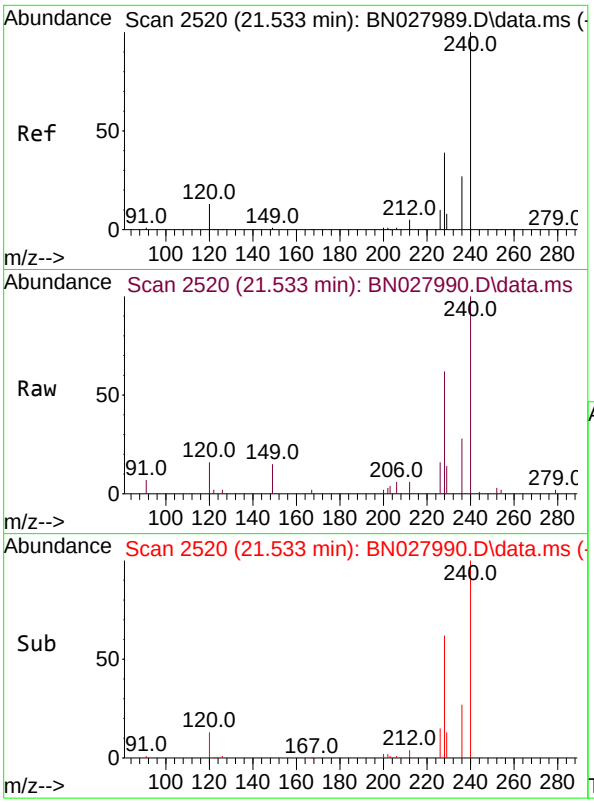


#28
Fluoranthene
Concen: 0.746 ng
RT: 19.407 min Scan# 2117
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:202 Resp: 48316

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.8	14.6
203	17.0	13.8	20.8



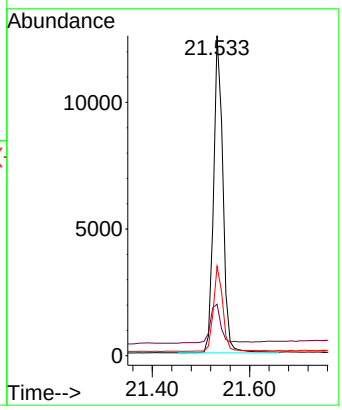


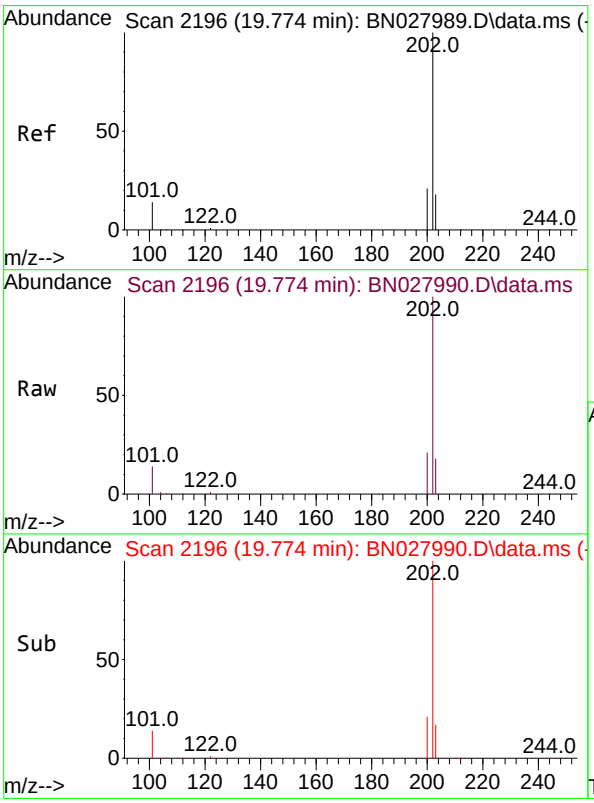
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.533 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 16596

Ion	Ratio	Lower	Upper
240	100		
120	16.1	13.8	20.6
236	27.9	22.6	33.8

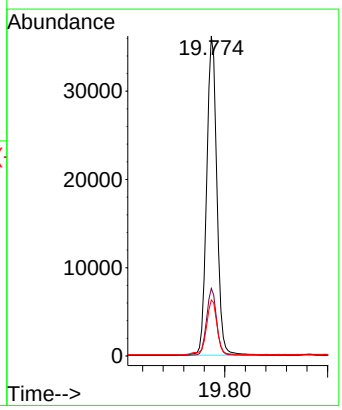


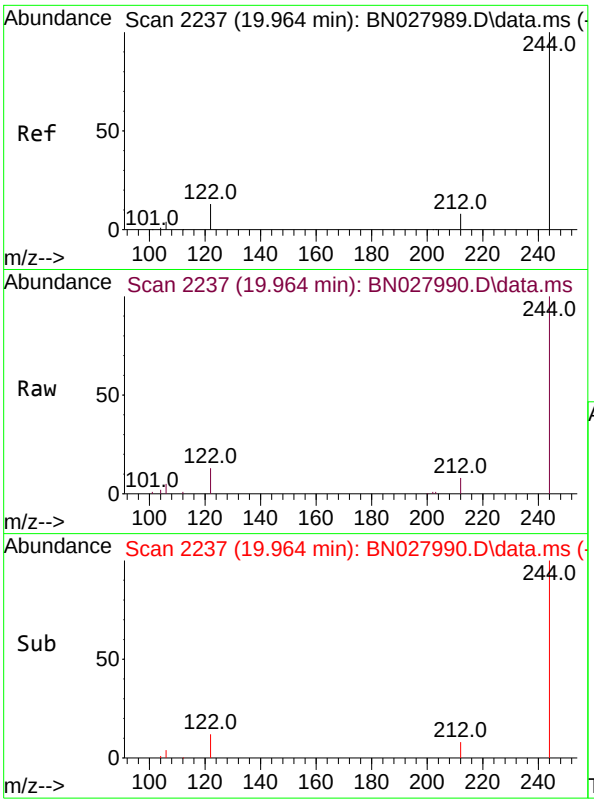


#30
Pyrene
Concen: 0.837 ng
RT: 19.774 min Scan# 2196
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:202 Resp: 49583

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.5	24.7
203	17.9	14.7	22.1



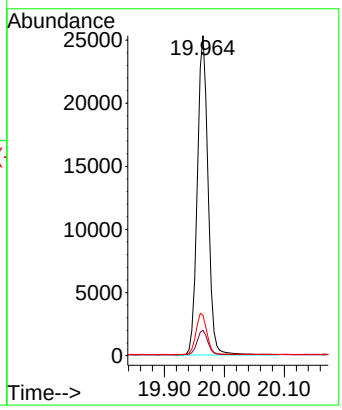


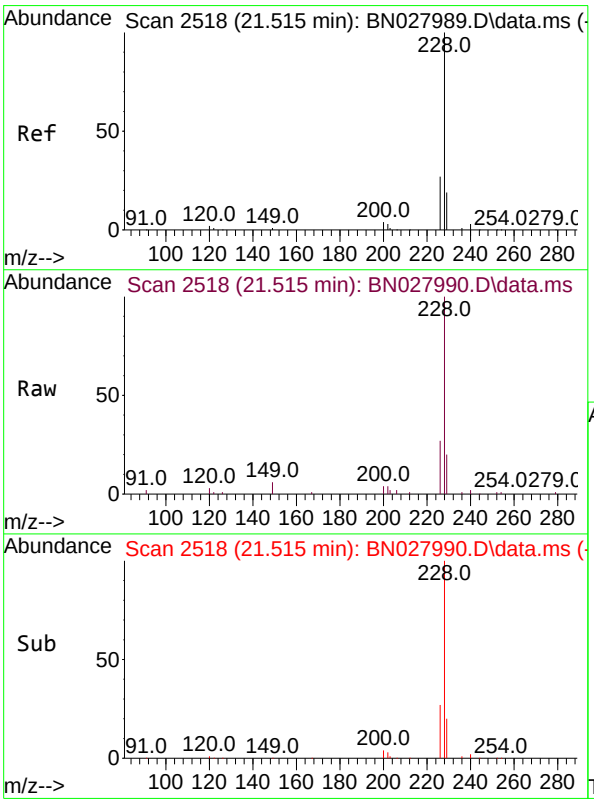
#31
Terphenyl-d14
Concen: 0.965 ng
RT: 19.964 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 31512

Ion	Ratio	Lower	Upper
244	100		
212	7.9	6.6	9.8
122	12.7	11.4	17.0

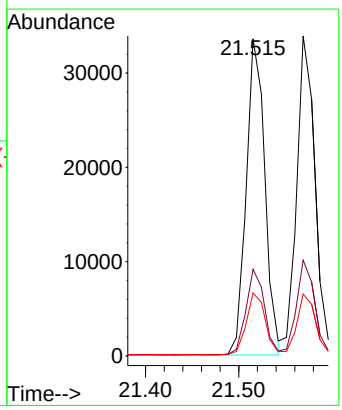


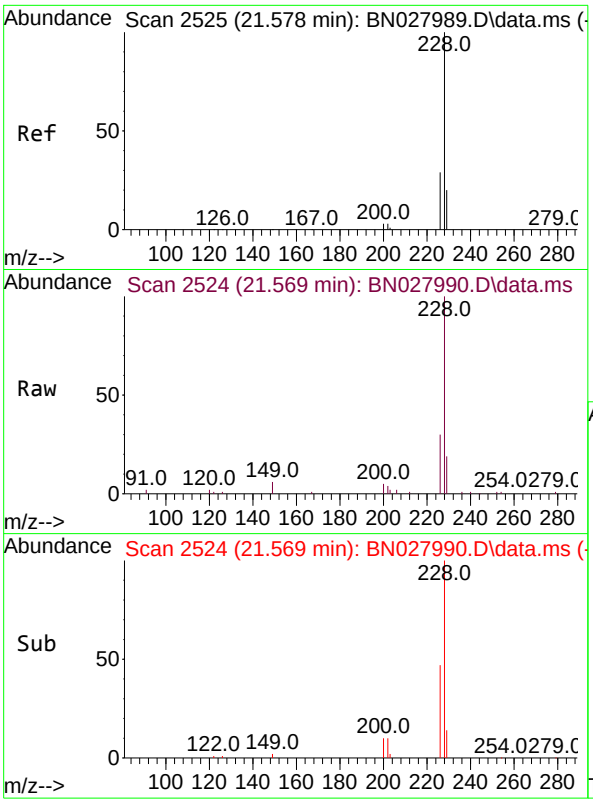


#32
Benzo(a)anthracene
Concen: 0.811 ng
RT: 21.515 min Scan# 2518
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:228 Resp: 46596

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.0	33.0
229	19.9	16.0	24.0



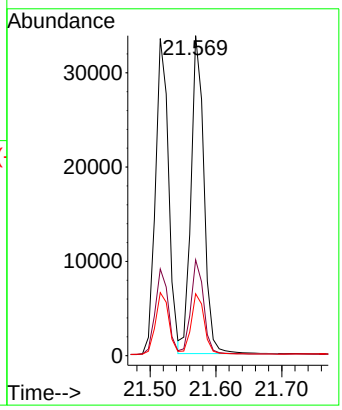


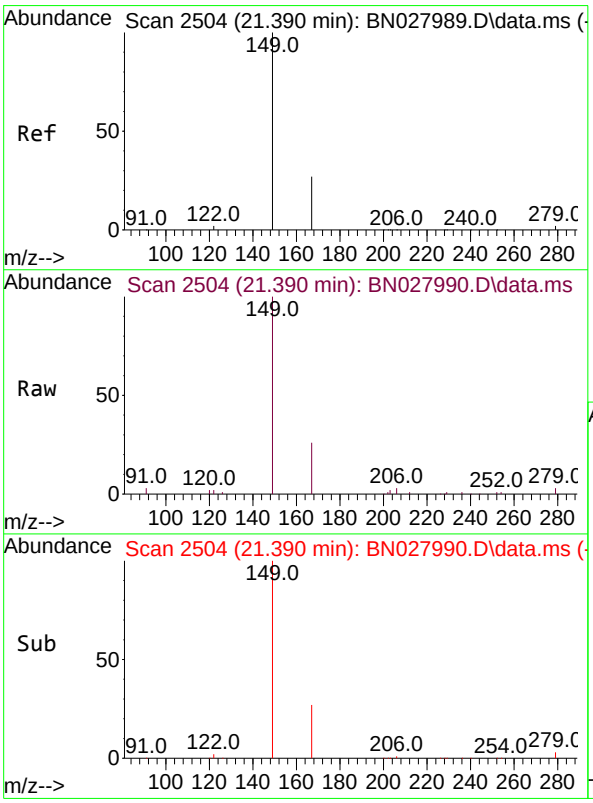
#33
Chrysene
Concen: 0.745 ng
RT: 21.569 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 46019

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.8
229	19.3	16.6	25.0

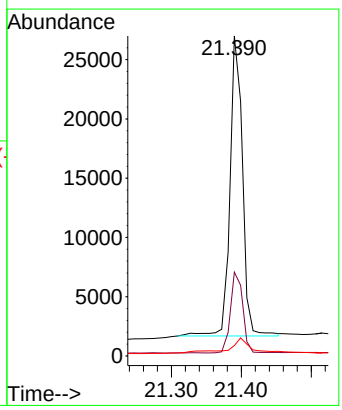


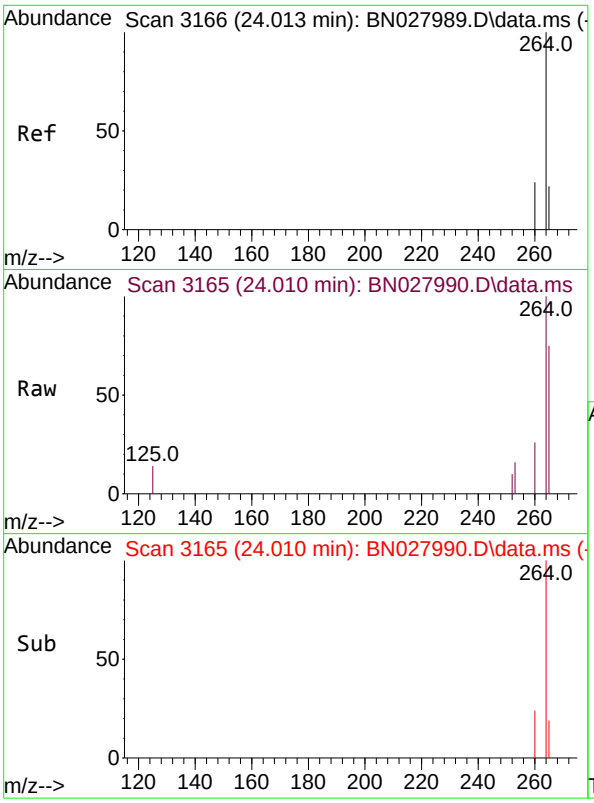


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.145 ng
RT: 21.390 min Scan# 2504
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:149 Resp: 31461

Ion	Ratio	Lower	Upper
149	100		
167	26.4	22.1	33.1
279	7.7	3.4	5.0#



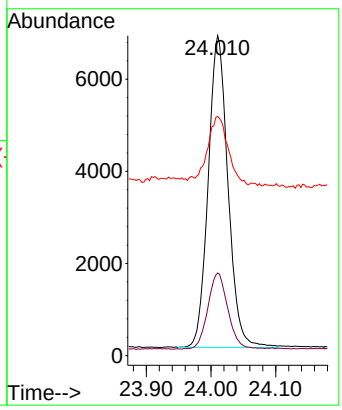


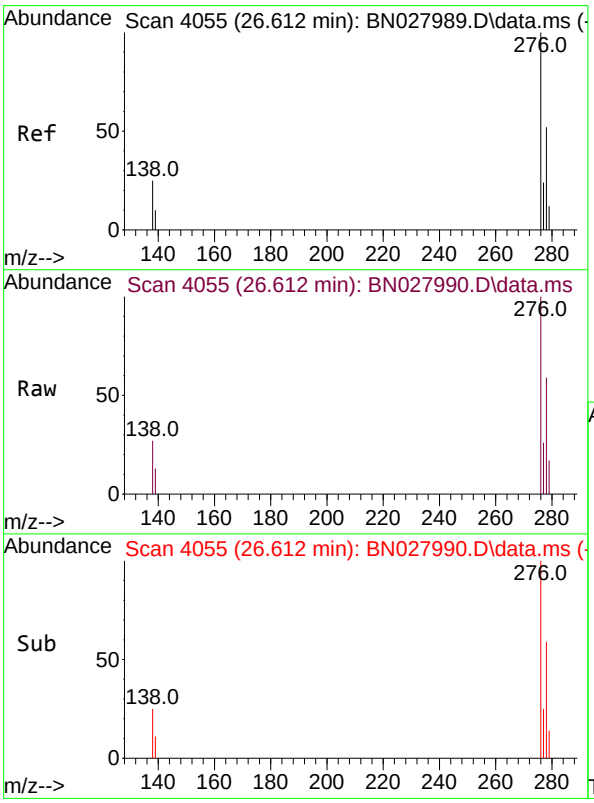
#35
Perylene-d12
Concen: 0.400 ng
RT: 24.010 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 14375

Ion	Ratio	Lower	Upper
264	100		
260	25.8	20.2	30.4
265	74.7	54.8	82.2

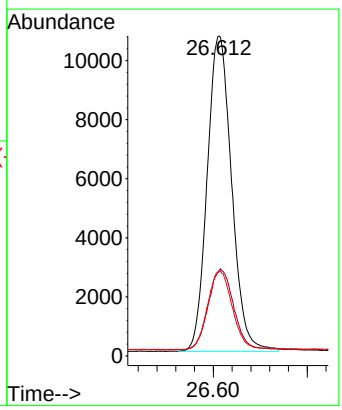


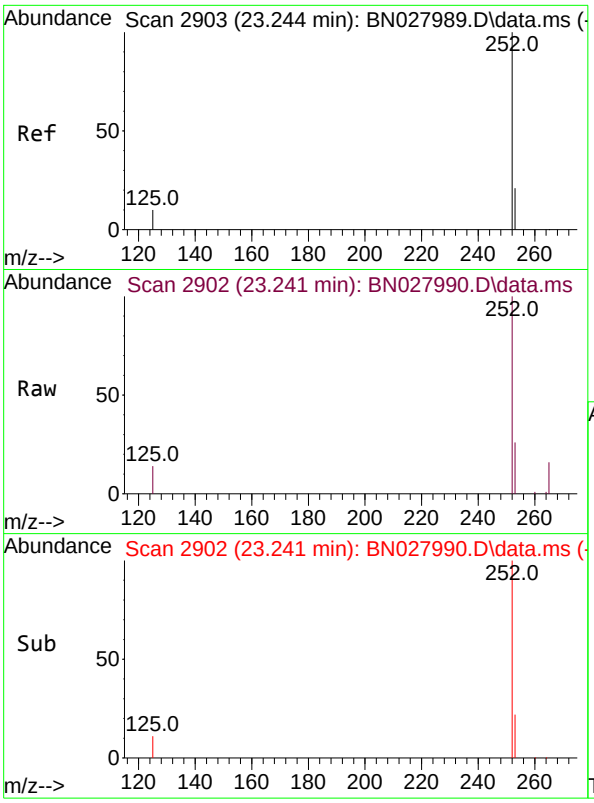


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.654 ng
RT: 26.612 min Scan# 4055
Delta R.T. -0.000 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:276 Resp: 38600

Ion	Ratio	Lower	Upper
276	100		
138	26.5	20.9	31.3
277	25.3	19.8	29.6



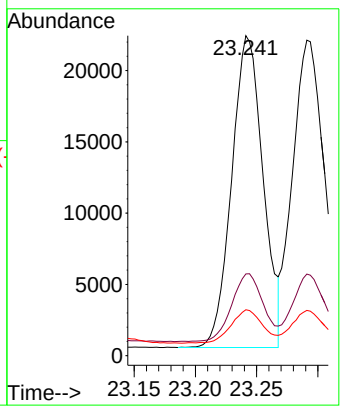


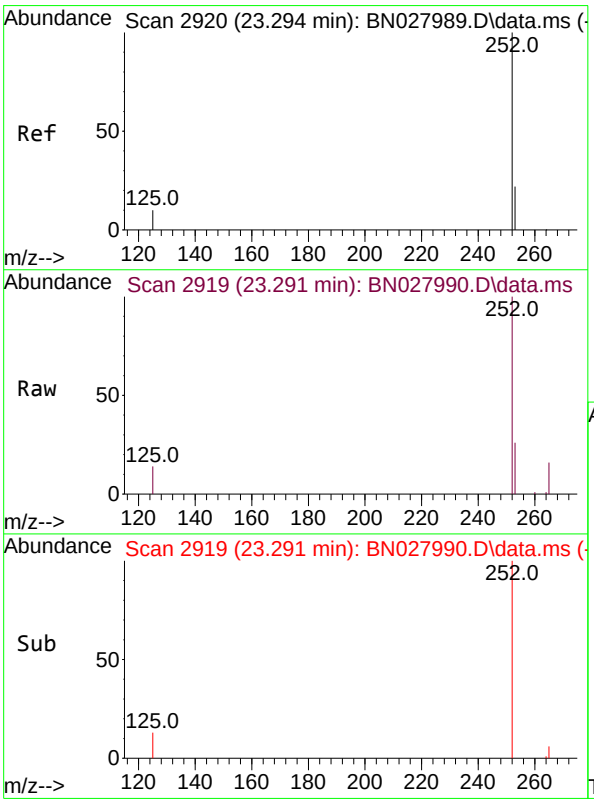
#37
Benzo(b)fluoranthene
Concen: 0.702 ng
RT: 23.241 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 39004

Ion	Ratio	Lower	Upper
252	100		
253	25.6	22.9	34.3
125	14.4	13.8	20.8

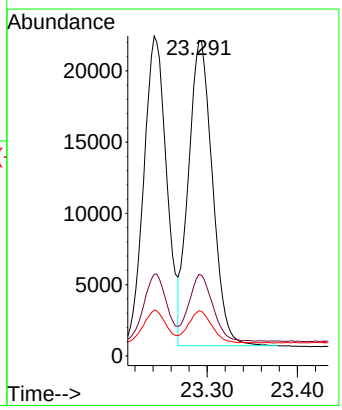


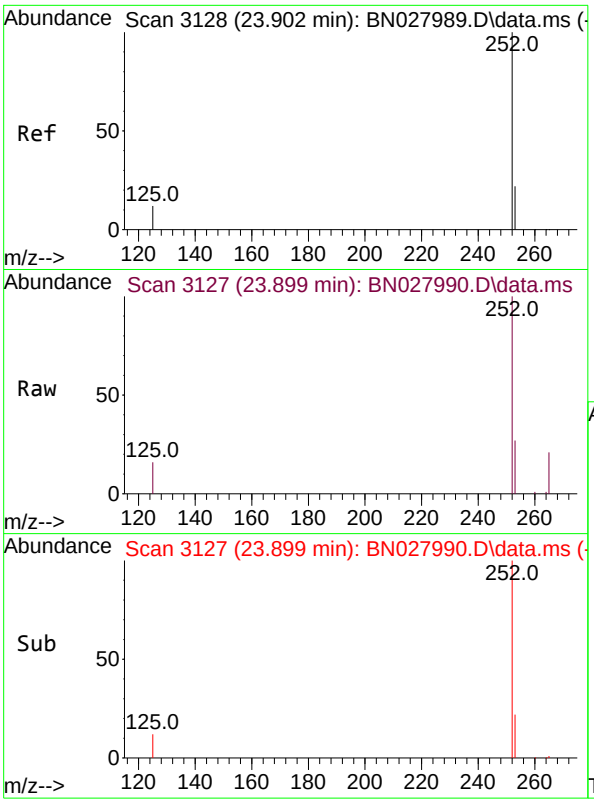


#38
Benzo(k)fluoranthene
Concen: 0.700 ng
RT: 23.291 min Scan# 2919
Delta R.T. -0.003 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:252 Resp: 39462

Ion	Ratio	Lower	Upper
252	100		
253	25.9	23.1	34.7
125	14.4	13.8	20.8



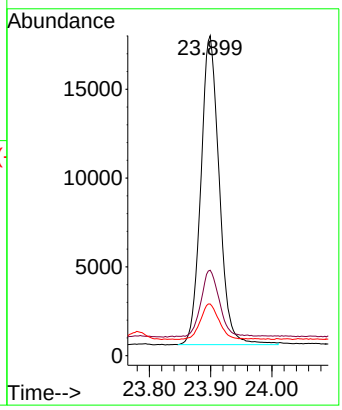


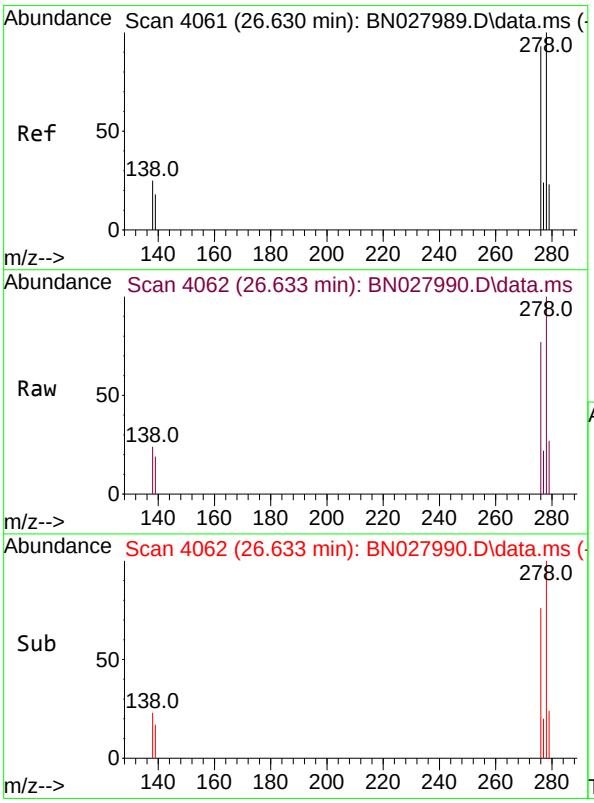
#39
Benzo(a)pyrene
Concen: 0.718 ng
RT: 23.899 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 36315

Ion	Ratio	Lower	Upper
252	100		
253	26.7	25.0	37.4
125	16.2	16.6	24.8#

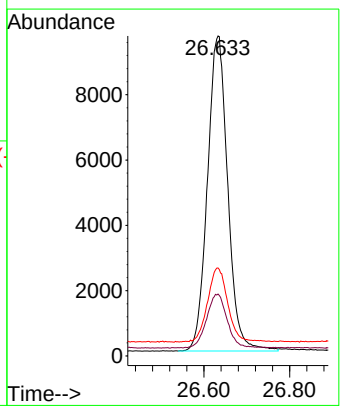


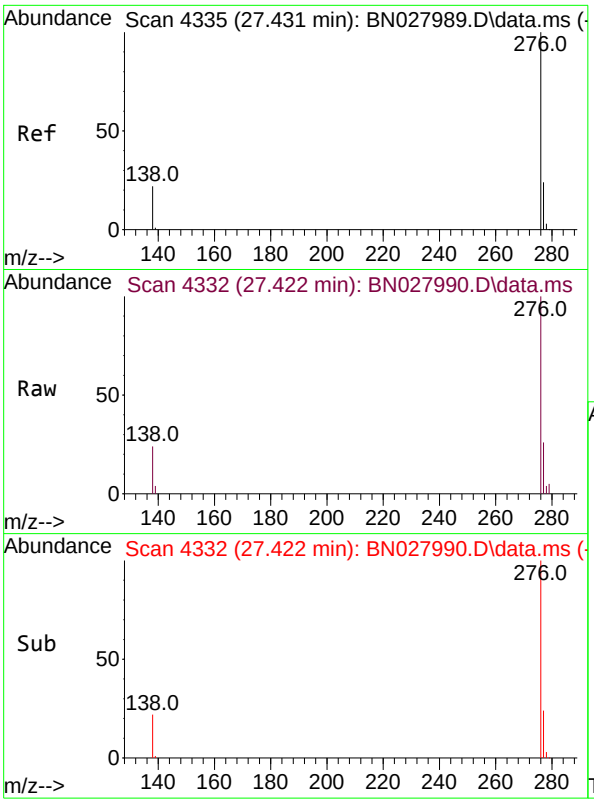


#40
Dibenzo(a,h)anthracene
Concen: 0.659 ng
RT: 26.633 min Scan# 4062
Delta R.T. 0.003 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Tgt Ion:278 Resp: 31738

Ion	Ratio	Lower	Upper
278	100		
139	19.4	17.7	26.5
279	27.5	25.2	37.8





#41
Benzo(g,h,i)perylene
Concen: 0.615 ng
RT: 27.422 min Scan# 4
Delta R.T. -0.009 min
Lab File: BN027990.D
Acq: 02 Oct 2023 16:50

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 32279

Ion	Ratio	Lower	Upper
276	100		
277	25.9	22.1	33.1
138	24.4	20.8	31.2