Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033340.D
Acq On : 10 Aug 2024 17:17
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 12 01:02:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.580	152	5294	0.400	ng		0.00
7) Naphthalene-d8	10.338	136	15482	0.400	ng		0.00
13) Acenaphthene-d10	14.212	164	9410	0.400	ng		0.00
19) Phenanthrene-d10	16.958	188	21883	0.400	ng		0.00
29) Chrysene-d12	21.166	240	21930	0.400	ng		0.00
35) Perylene-d12	23.352	264	21624	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.197	112	67536	4.846	ng		0.00
5) Phenol-d6	6.749	99	95521	5.014	ng		0.00
8) Nitrobenzene-d5	8.704	82	58299	6.172	ng		0.00
11) 2-Methylnaphthalene-d10	11.940	152	120490	4.995	ng		0.00
14) 2,4,6-Tribromophenol	15.704	330	25439	6.681	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	188343	5.313	ng		0.00
27) Fluoranthene-d10	19.002	212	306352	5.088	ng		0.00
31) Terphenyl-d14	19.620	244	201464	5.327	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.189	88	26458	4.514	ng		97
3) n-Nitrosodimethylamine	3.478	42	36608	4.913	ng	#	98
6) bis(2-Chloroethyl)ether	7.017	93	76831	4.716	ng		99
9) Naphthalene	10.391	128	210130	4.834	ng		99
10) Hexachlorobutadiene	10.690	225	38983	4.881	ng	#	100
12) 2-Methylnaphthalene	12.015	142	146021	4.875	ng		99
16) Acenaphthylene	13.924	152	230808	5.024	ng		100
17) Acenaphthene	14.276	154	153102	5.253	ng		97
18) Fluorene	15.271	166	202967	5.211	ng		100
20) 4,6-Dinitro-2-methylph...	15.346	198	16129	10.308	ng	#	48
21) 4-Bromophenyl-phenylether	16.164	248	66556	5.011	ng		100
22) Hexachlorobenzene	16.275	284	72539	5.200	ng		100
23) Atrazine	16.449	200	57382	5.230	ng		97
24) Pentachlorophenol	16.611	266	32803	6.708	ng		99
25) Phenanthrene	16.995	178	323082	5.101	ng		100
26) Anthracene	17.095	178	301302	4.892	ng		100
28) Fluoranthene	19.030	202	408882	5.120	ng		100
30) Pyrene	19.392	202	423934	4.914	ng		100
32) Benzo(a)anthracene	21.157	228	418605	4.916	ng		100
33) Chrysene	21.201	228	400877	4.861	ng		100
34) Bis(2-ethylhexyl)phtha...	21.130	149	212477	4.817	ng		99
36) Indeno(1,2,3-cd)pyrene	25.530	276	483330	5.110	ng		99
37) Benzo(b)fluoranthene	22.706	252	430535	5.358	ng		96
38) Benzo(k)fluoranthene	22.747	252	433718	5.556	ng		97
39) Benzo(a)pyrene	23.258	252	370069	5.182	ng		95
40) Dibenzo(a,h)anthracene	25.551	278	384486	5.146	ng		97
41) Benzo(g,h,i)perylene	26.185	276	411316	5.061	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081024\
Data File : BN033340.D
Acq On : 10 Aug 2024 17:17
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 12 01:02:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 12 00:59:25 2024
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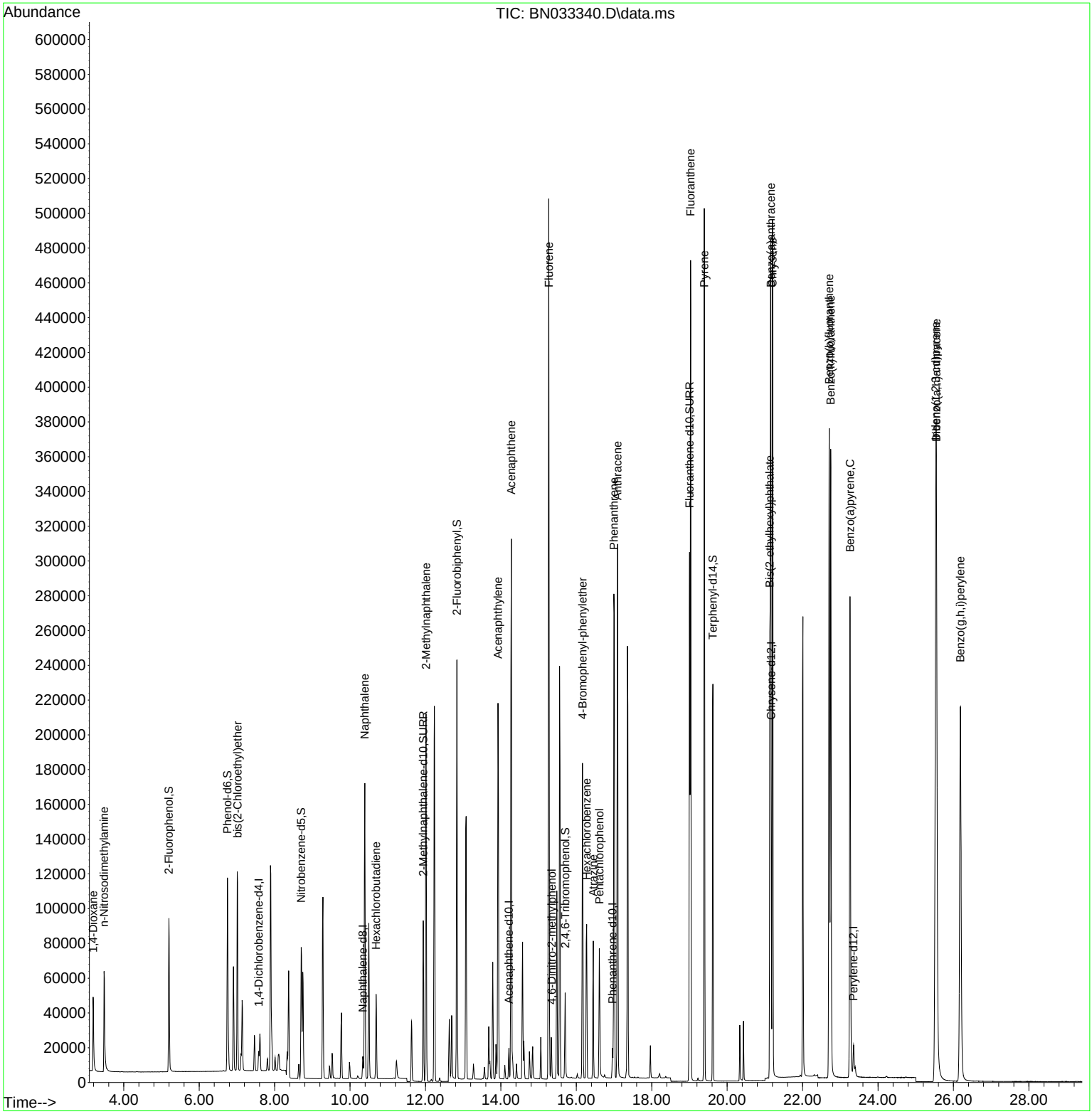
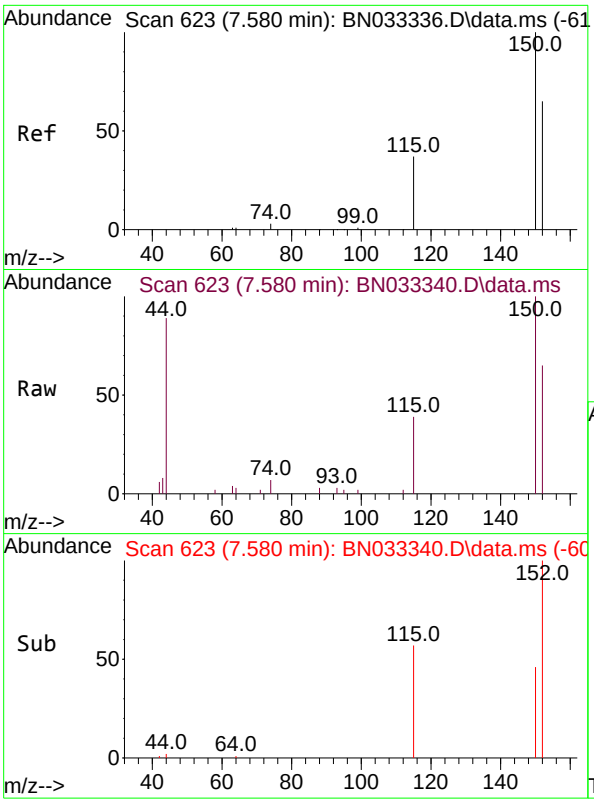


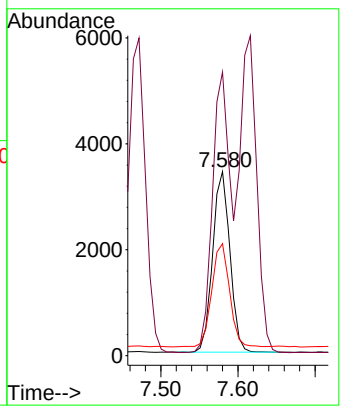


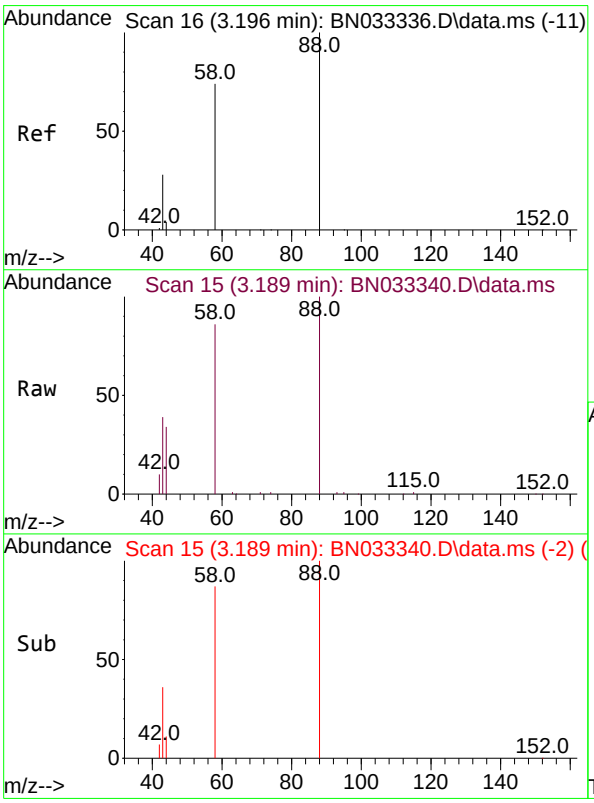
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.580 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 5294

Ion	Ratio	Lower	Upper
152	100		
150	154.1	122.3	183.5
115	60.8	48.8	73.2

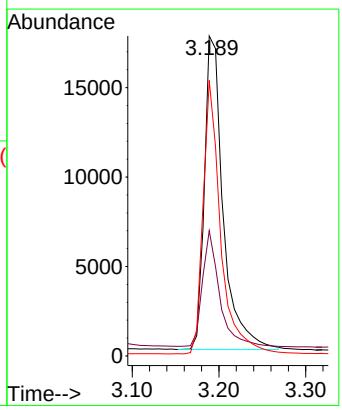


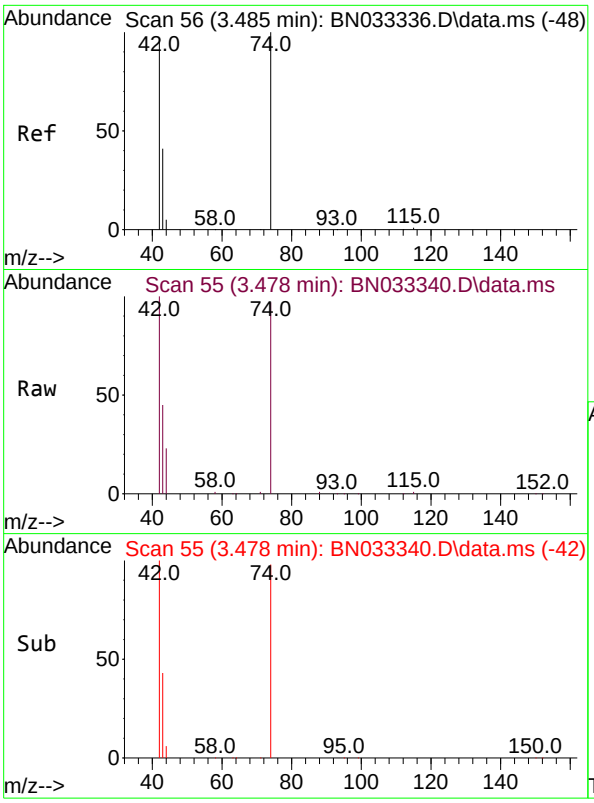


#2
1,4-Dioxane
Concen: 4.514 ng
RT: 3.189 min Scan# 15
Delta R.T. -0.007 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion: 88 Resp: 26458

Ion	Ratio	Lower	Upper
88	100		
43	33.4	30.6	46.0
58	81.4	64.5	96.7



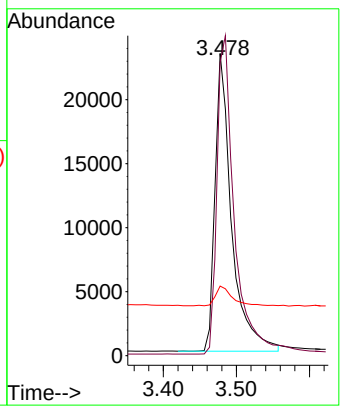


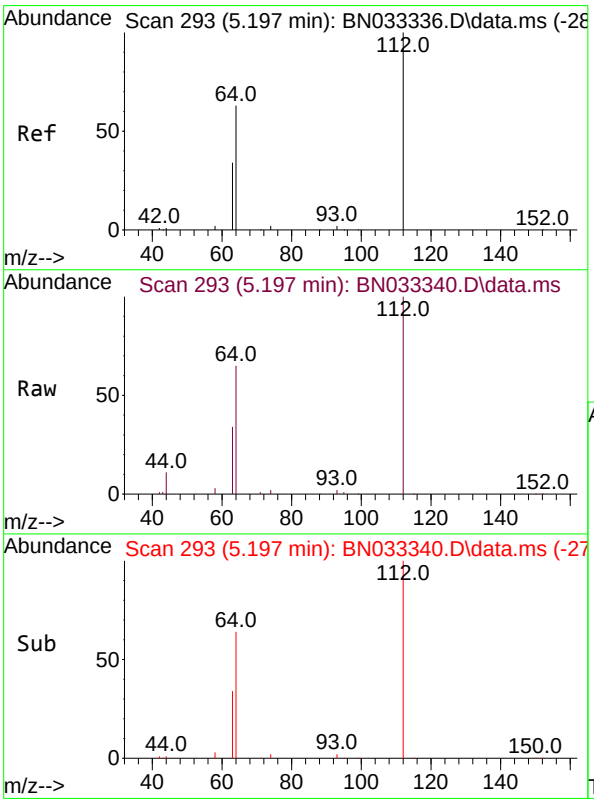
#3
n-Nitrosodimethylamine
Concen: 4.913 ng
RT: 3.478 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 36608

Ion	Ratio	Lower	Upper
42	100		
74	111.3	89.0	133.6
44	6.6	11.0	16.4#

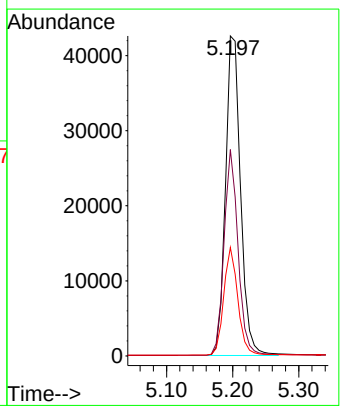


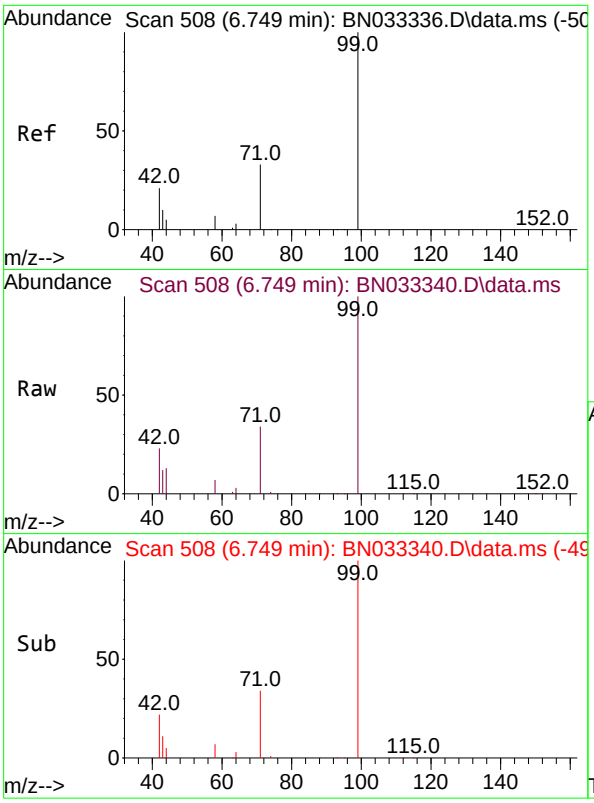


#4
2-Fluorophenol
Concen: 4.846 ng
RT: 5.197 min Scan# 293
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:112 Resp: 67536

Ion	Ratio	Lower	Upper
112	100		
64	60.0	48.1	72.1
63	31.6	25.4	38.2



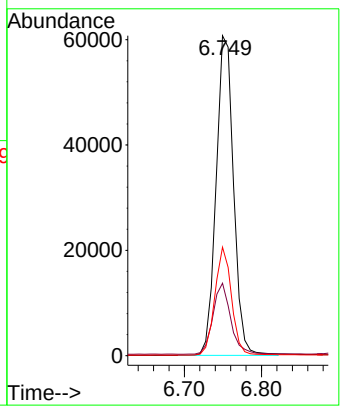


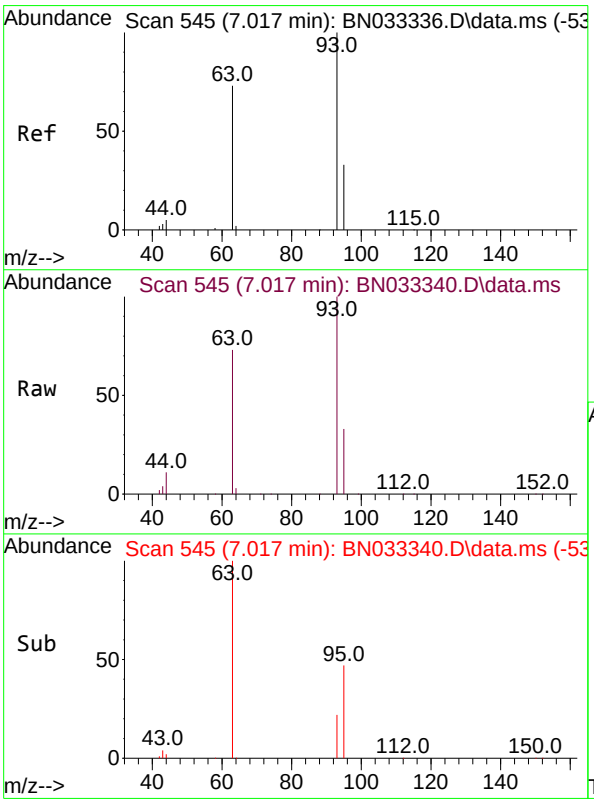
#5
Phenol-d6
Concen: 5.014 ng
RT: 6.749 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 95521

Ion	Ratio	Lower	Upper
99	100		
42	22.6	18.5	27.7
71	32.2	26.2	39.2

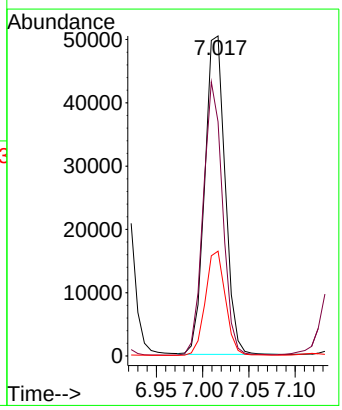


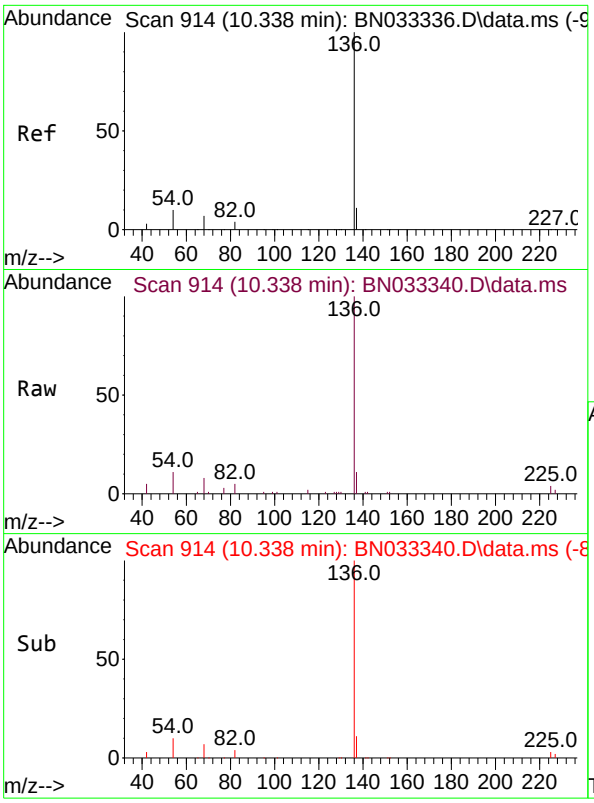


#6
bis(2-Chloroethyl)ether
Concen: 4.716 ng
RT: 7.017 min Scan# 545
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion: 93 Resp: 76831

Ion	Ratio	Lower	Upper
93	100		
63	81.8	65.2	97.8
95	32.3	26.2	39.4



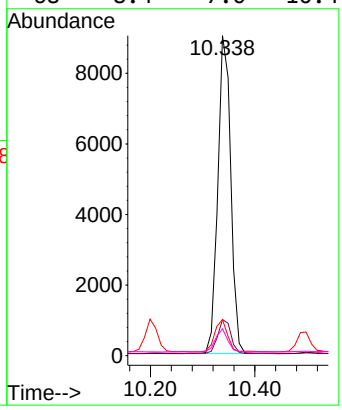


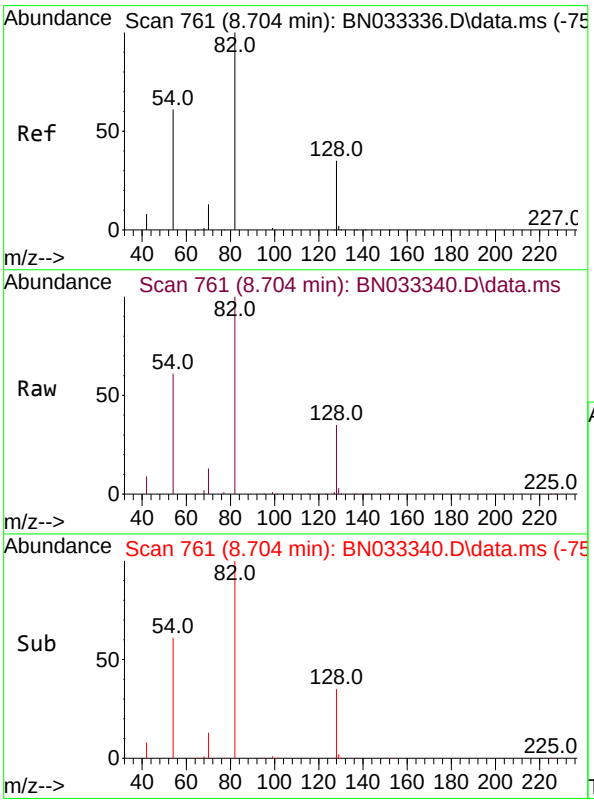
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.338 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 15482

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	11.2	9.4	14.0
68	8.4	7.0	10.4

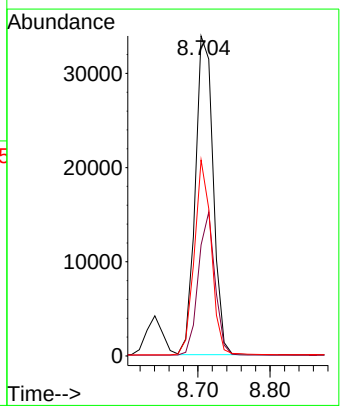


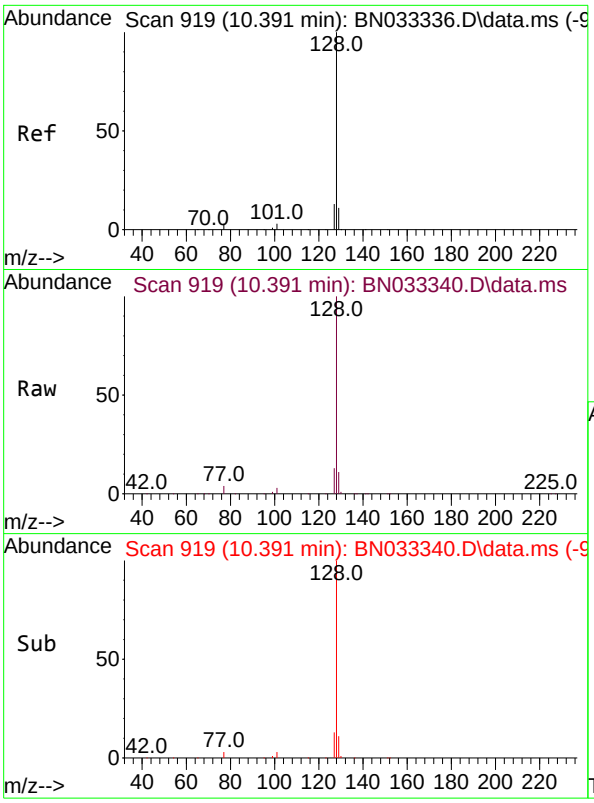


#8
Nitrobenzene-d5
Concen: 6.172 ng
RT: 8.704 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion: 82 Resp: 58299

Ion	Ratio	Lower	Upper
82	100		
128	34.7	29.0	43.4
54	61.3	50.2	75.4



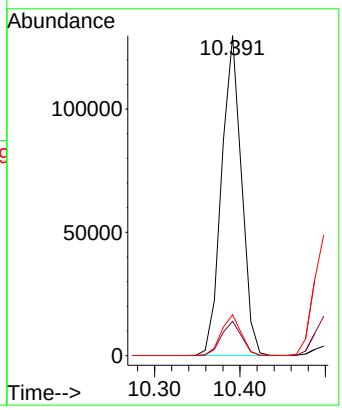


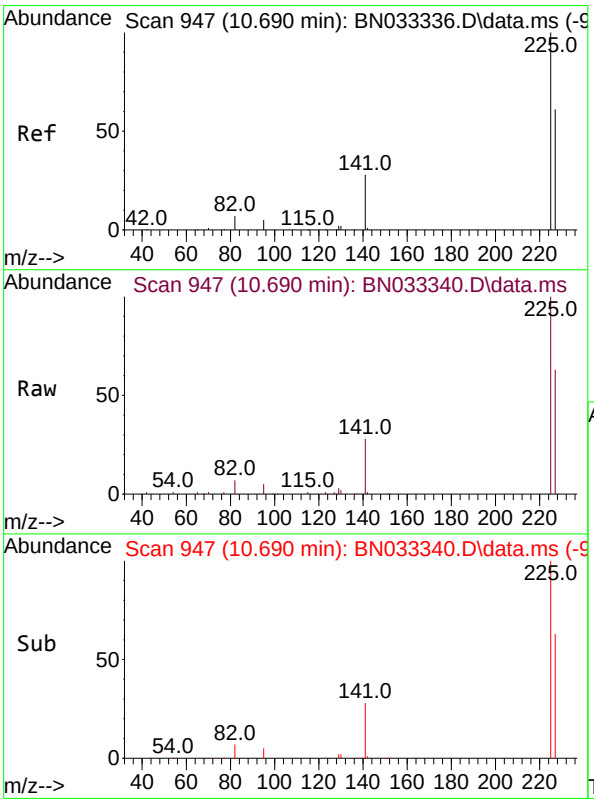
#9
Naphthalene
Concen: 4.834 ng
RT: 10.391 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 210130

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.2	13.8
127	12.8	10.6	15.8

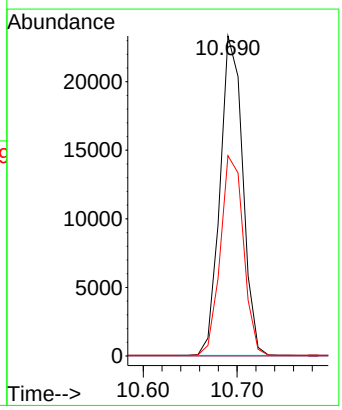


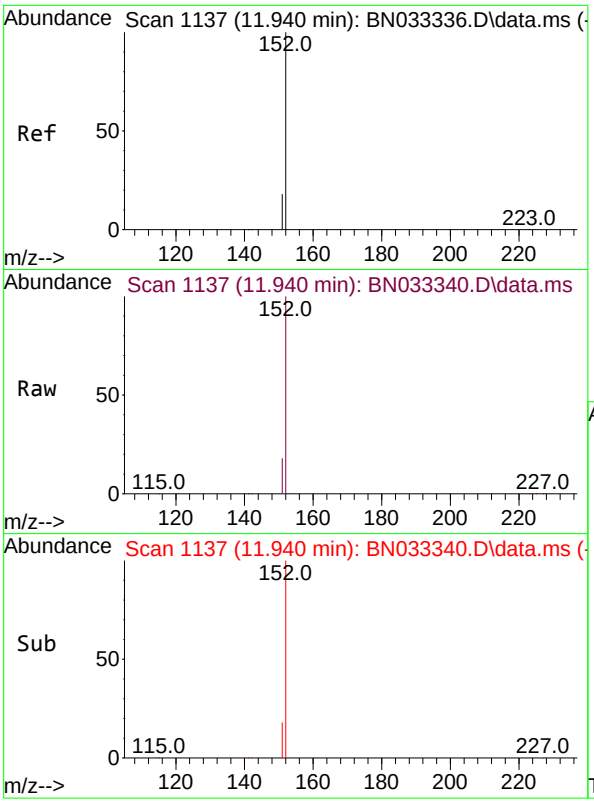


#10
Hexachlorobutadiene
Concen: 4.881 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:225 Resp: 38983

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.8	76.2



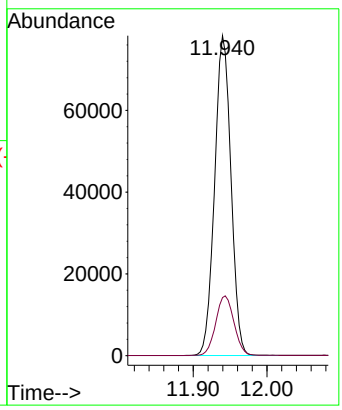


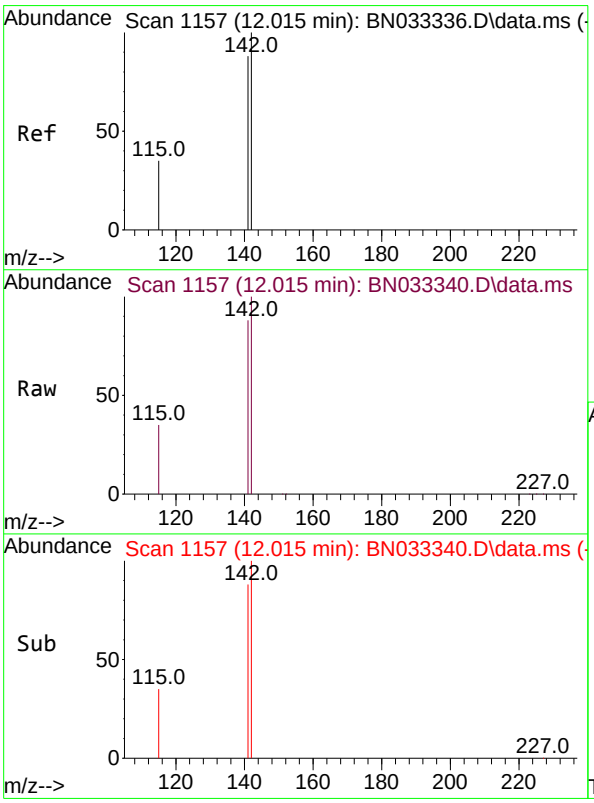
#11
2-Methylnaphthalene-d10
Concen: 4.995 ng
RT: 11.940 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 120490

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1

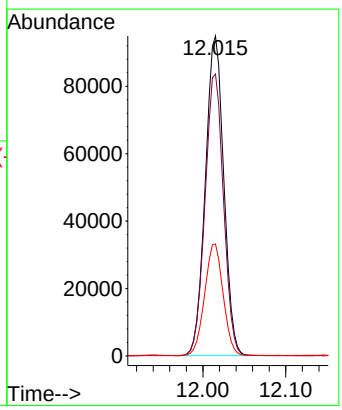


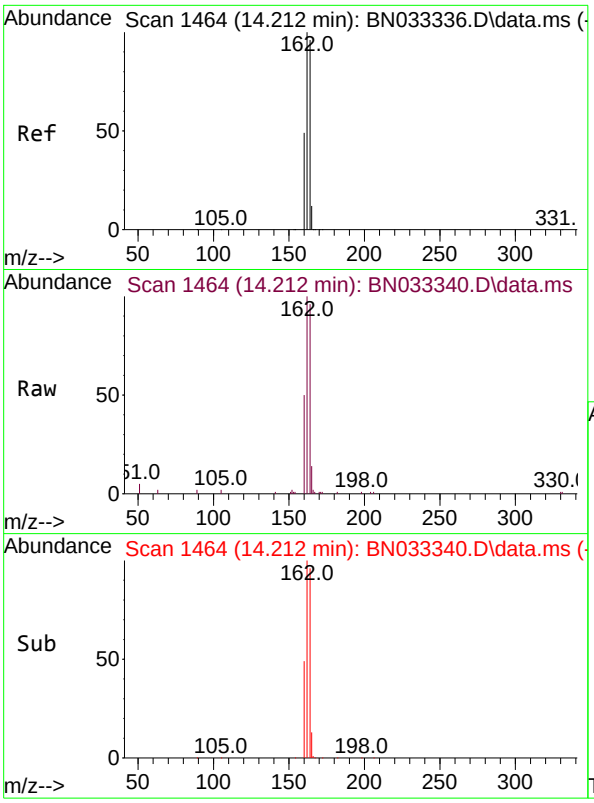


#12
2-Methylnaphthalene
Concen: 4.875 ng
RT: 12.015 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:142 Resp: 146021

Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.2	105.4
115	35.0	29.3	43.9



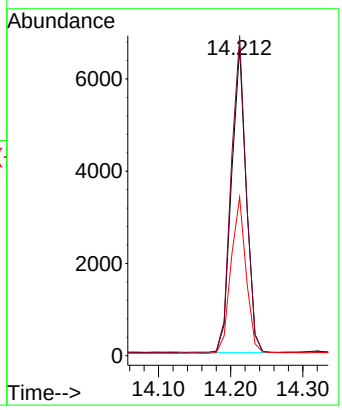


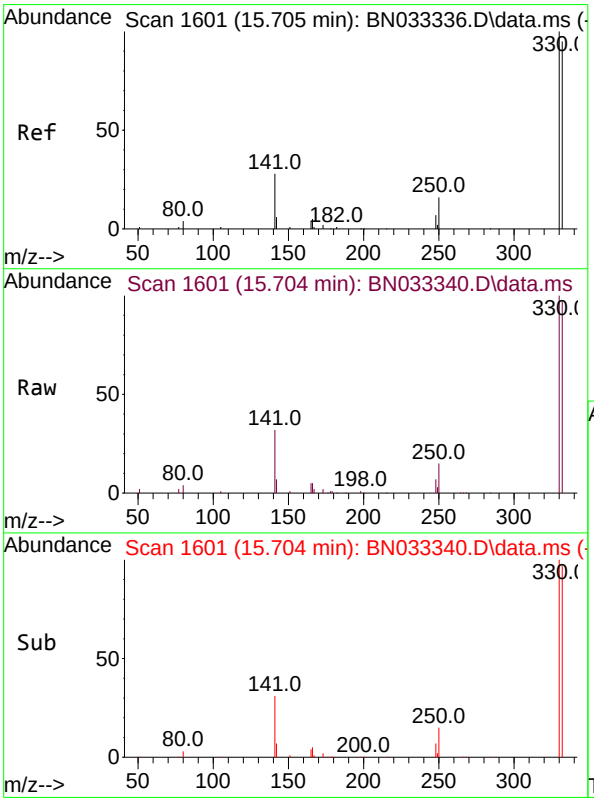
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.212 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 9410

Ion	Ratio	Lower	Upper
164	100		
162	103.7	83.1	124.7
160	51.4	41.1	61.7

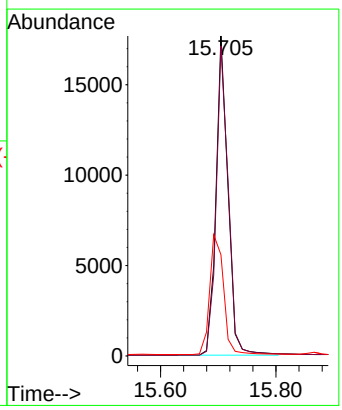


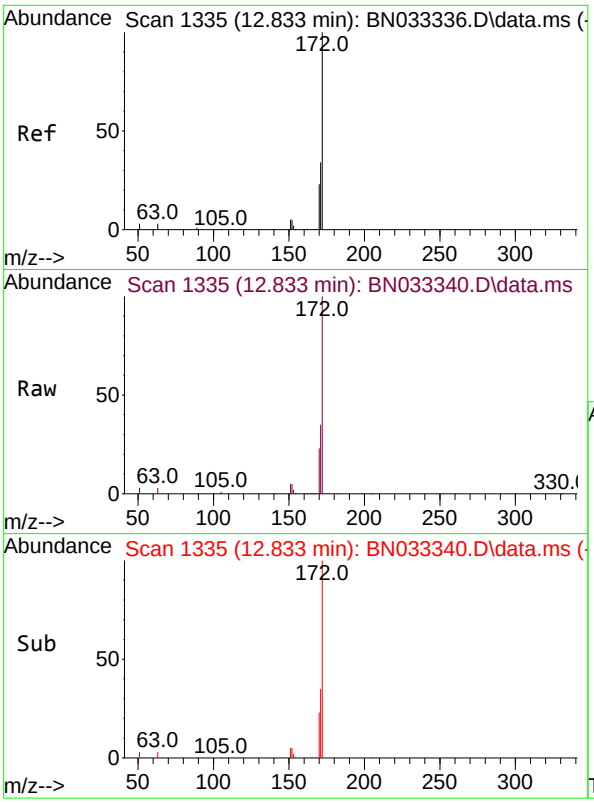


#14
2,4,6-Tribromophenol
Concen: 6.681 ng
RT: 15.704 min Scan# 1601
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:330 Resp: 25439

Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.1	115.7
141	43.3	33.4	50.0



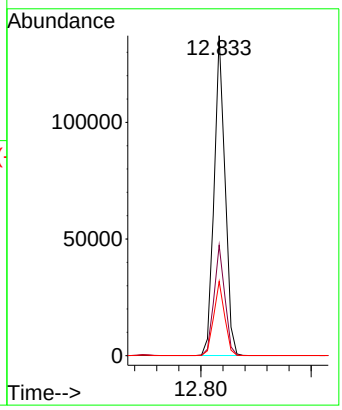


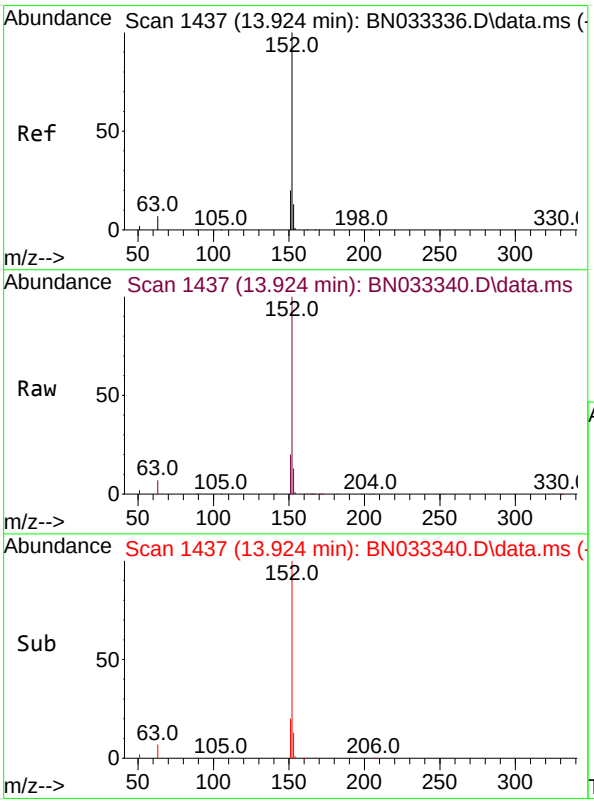
#15
2-Fluorobiphenyl
Concen: 5.313 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 188343

Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.8	41.8
170	23.2	18.7	28.1

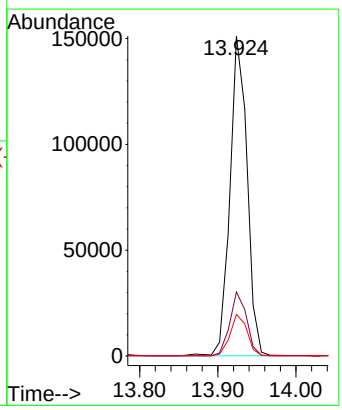


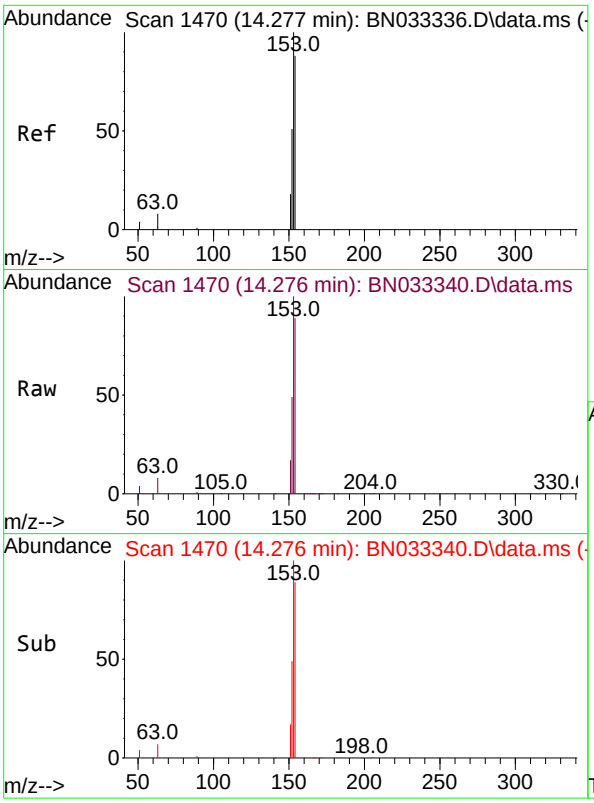


#16
Acenaphthylene
Concen: 5.024 ng
RT: 13.924 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:152 Resp: 230808

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.7	23.5
153	12.9	10.4	15.6



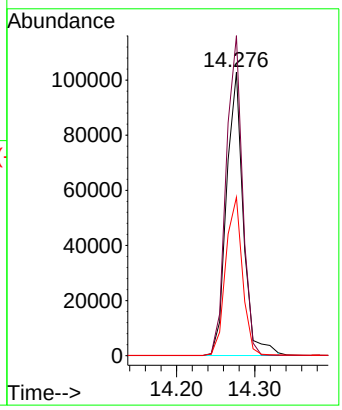


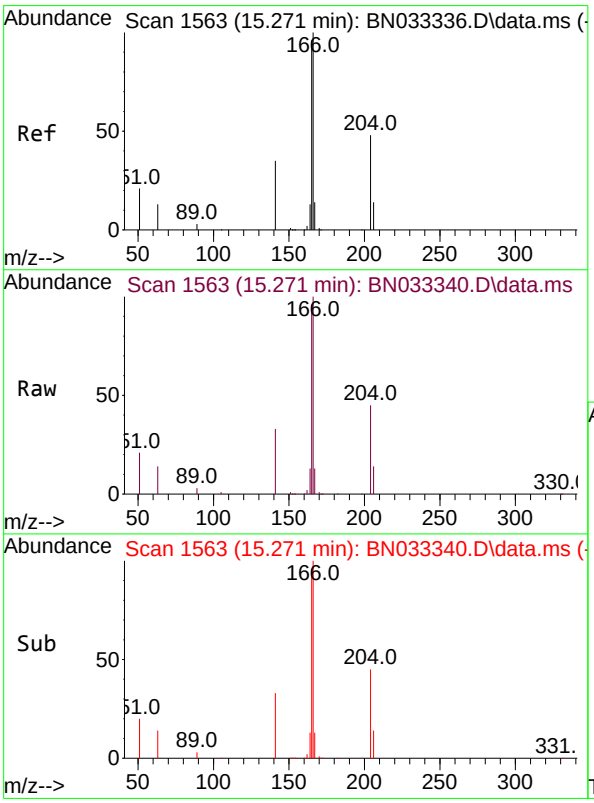
#17
Acenaphthene
Concen: 5.253 ng
RT: 14.276 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 153102

Ion	Ratio	Lower	Upper
154	100		
153	109.7	89.7	134.5
152	55.7	47.2	70.8

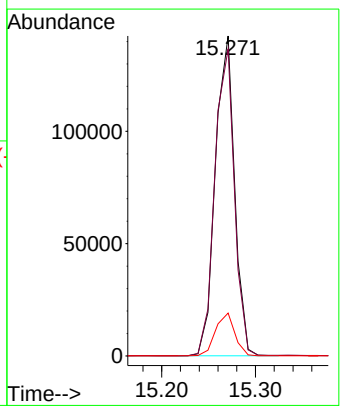


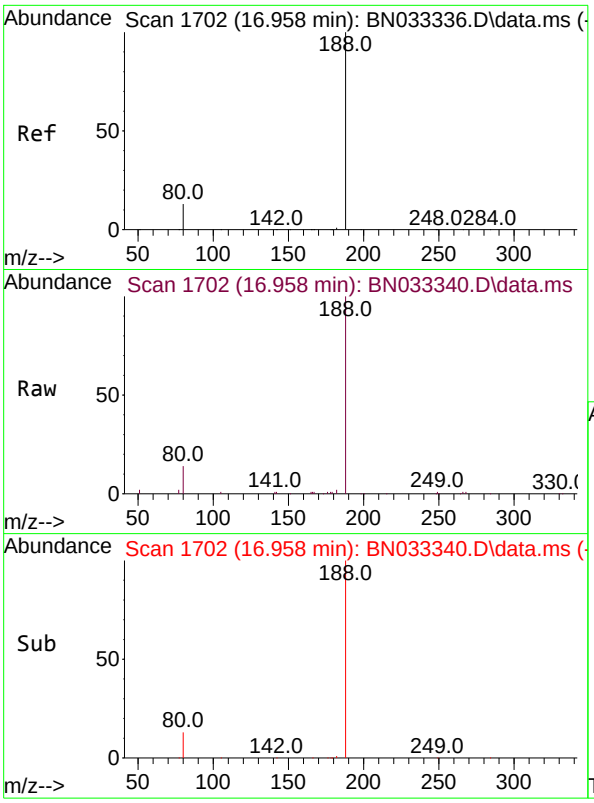


#18
Fluorene
Concen: 5.211 ng
RT: 15.271 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:166 Resp: 202967

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.0	117.0
167	13.4	10.7	16.1



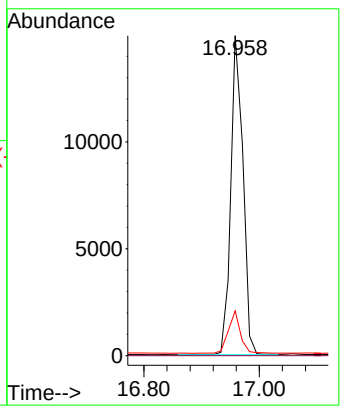


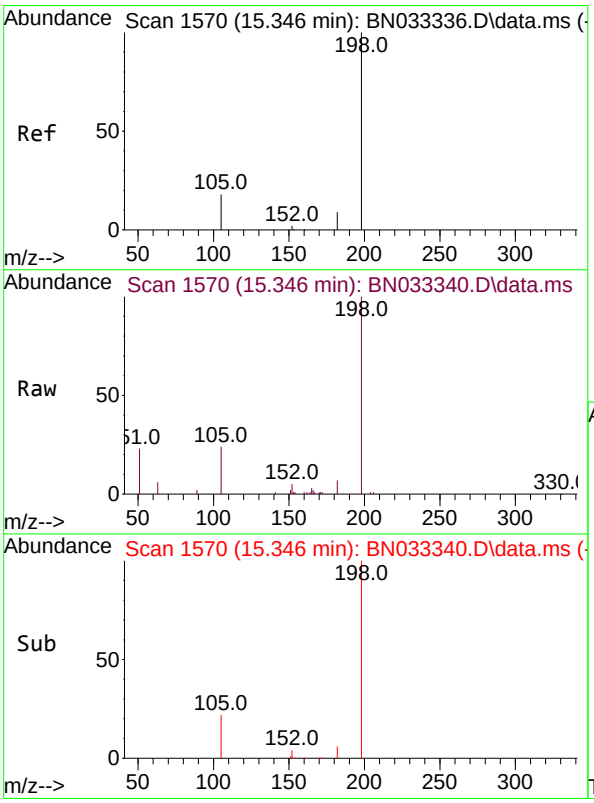
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.958 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 21883

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	10.7	16.1

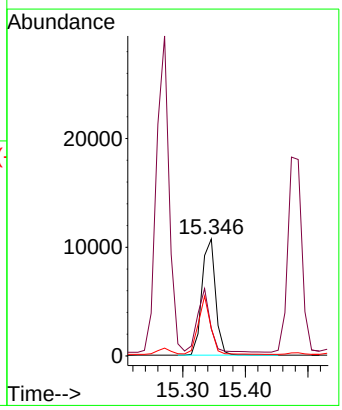


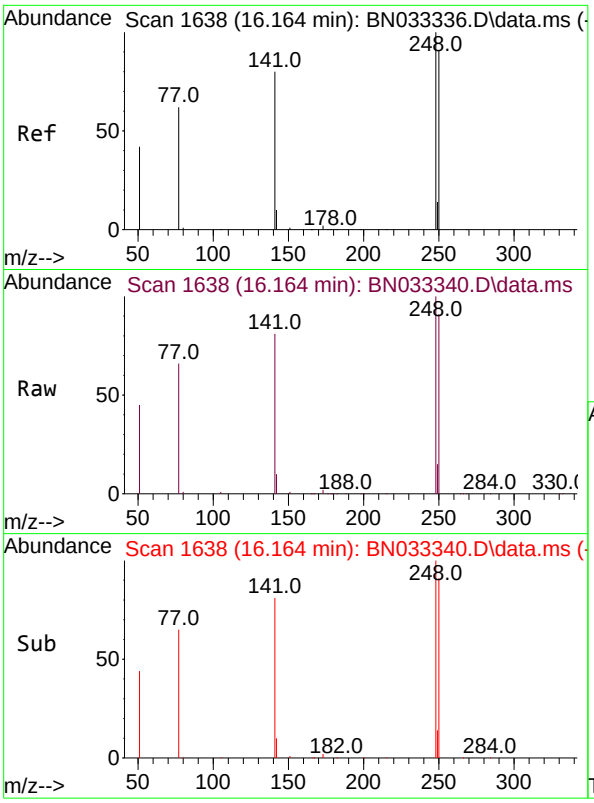


#20
4,6-Dinitro-2-methylphenol
Concen: 10.308 ng
RT: 15.346 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:198 Resp: 16129

Ion	Ratio	Lower	Upper
198	100		
51	23.2	62.8	94.2#
105	23.6	34.1	51.1#



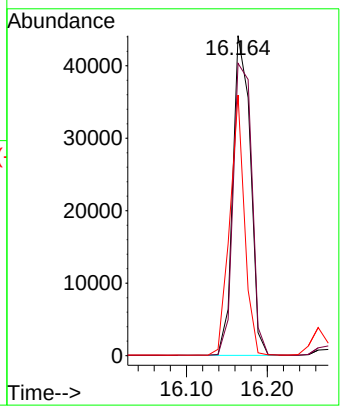


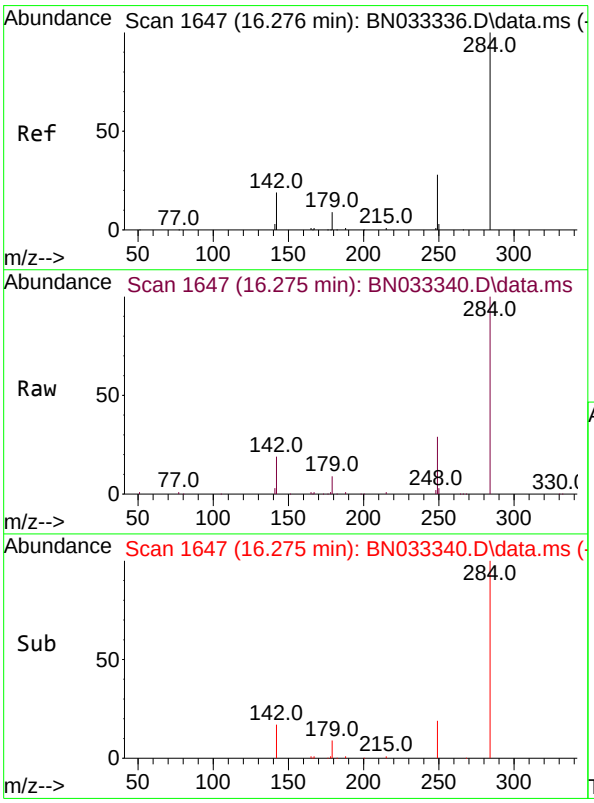
#21
4-Bromophenyl-phenylether
Concen: 5.011 ng
RT: 16.164 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 66556

Ion	Ratio	Lower	Upper
248	100		
250	91.4	73.0	109.4
141	81.4	64.6	96.8

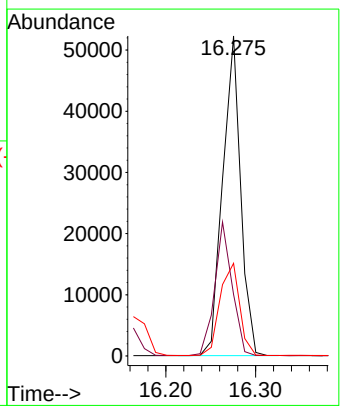


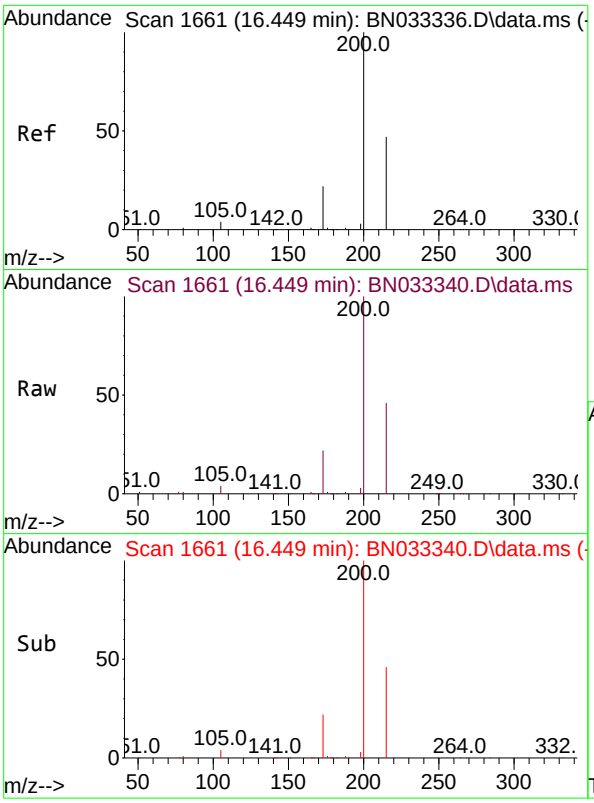


#22
Hexachlorobenzene
Concen: 5.200 ng
RT: 16.275 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:284 Resp: 72539

Ion	Ratio	Lower	Upper
284	100		
142	40.4	32.2	48.4
249	31.6	25.3	37.9



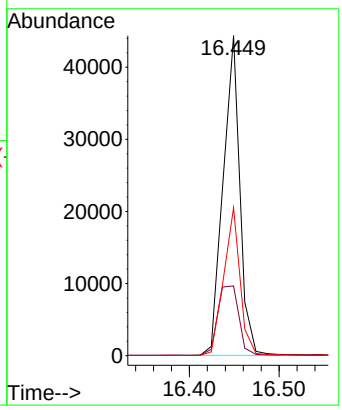


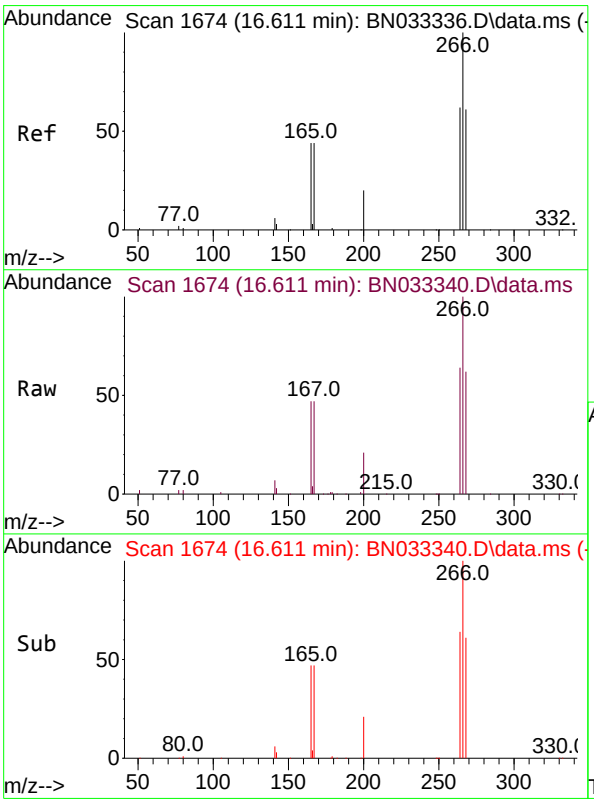
#23
Atrazine
Concen: 5.230 ng
RT: 16.449 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 57382

Ion	Ratio	Lower	Upper
200	100		
173	21.8	18.7	28.1
215	46.2	38.6	58.0

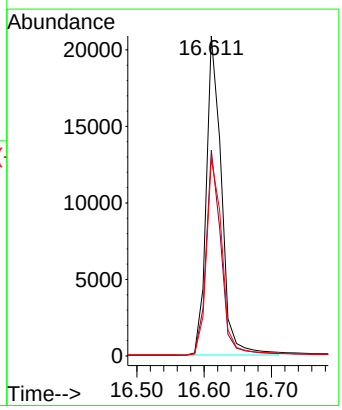


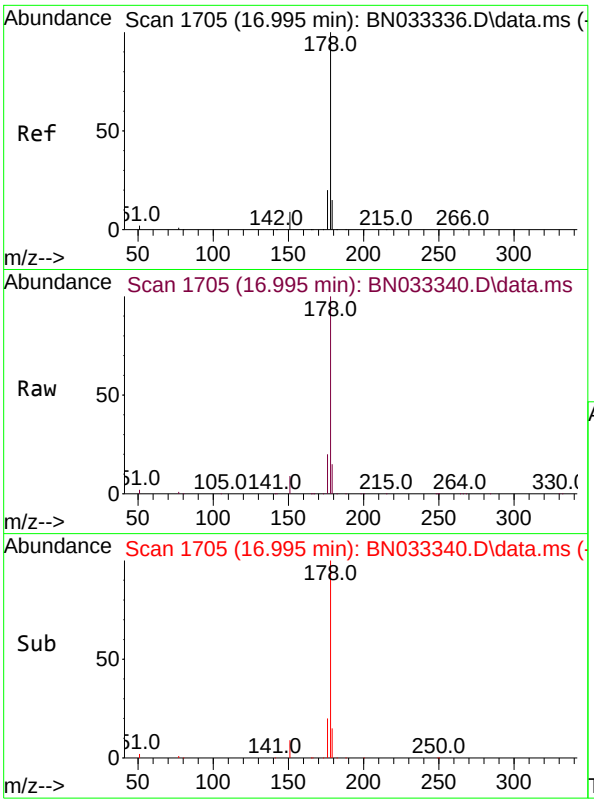


#24
Pentachlorophenol
Concen: 6.708 ng
RT: 16.611 min Scan# 1674
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:266 Resp: 32803

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.2	73.8
268	63.3	51.2	76.8



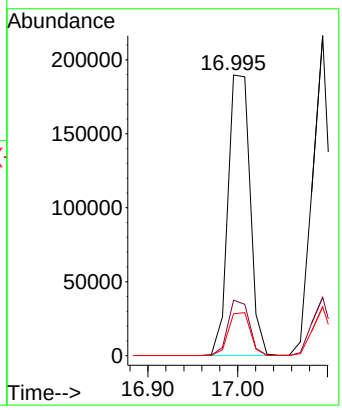


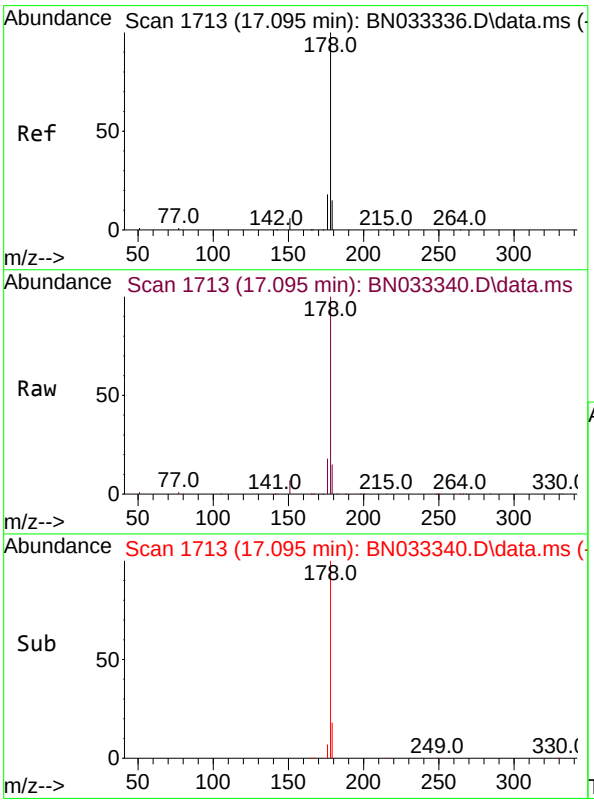
#25
Phenanthrene
Concen: 5.101 ng
RT: 16.995 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 323082

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.2	12.2	18.2

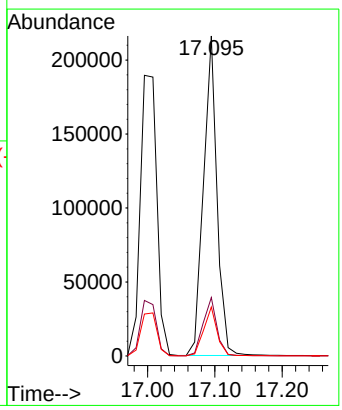


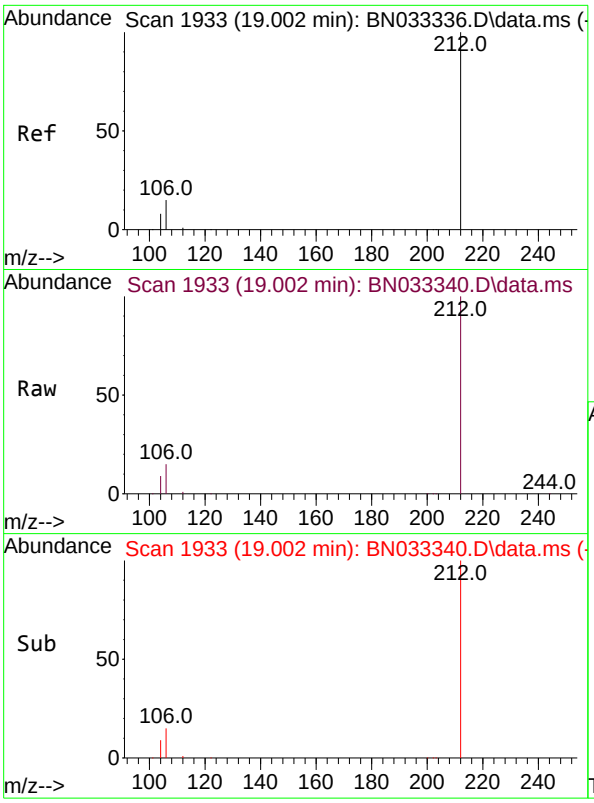


#26
Anthracene
Concen: 4.892 ng
RT: 17.095 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:178 Resp: 301302

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.2	12.2	18.2



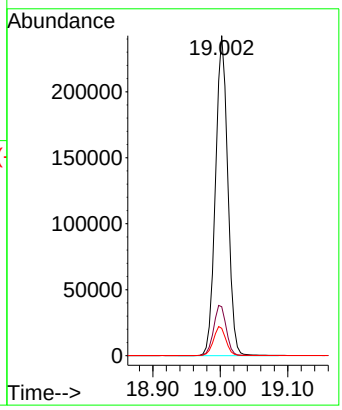


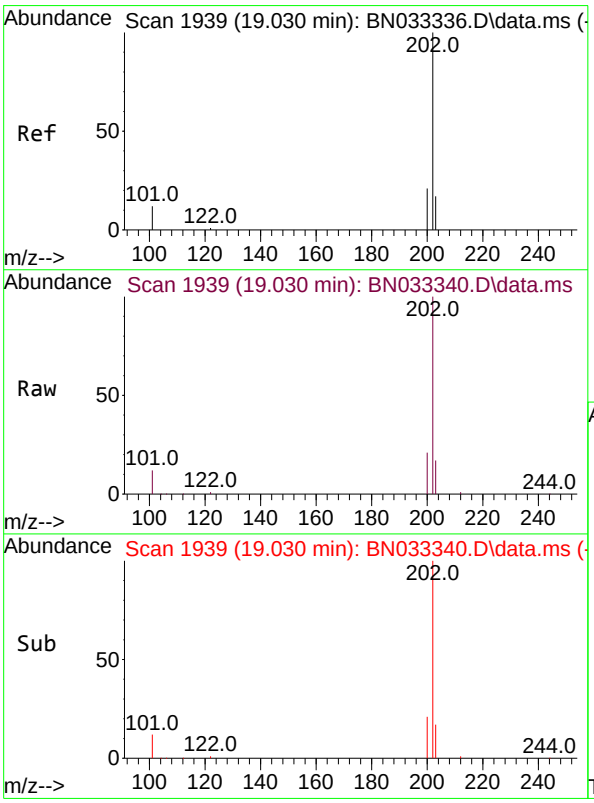
#27
Fluoranthene-d10
Concen: 5.088 ng
RT: 19.002 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 306352

Ion	Ratio	Lower	Upper
212	100		
106	16.1	12.8	19.2
104	9.1	7.1	10.7

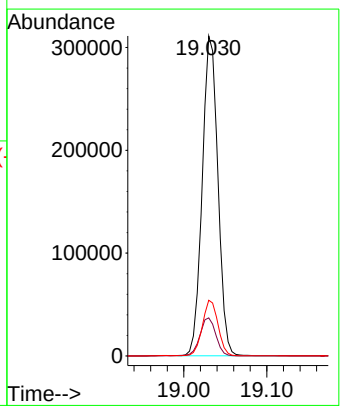


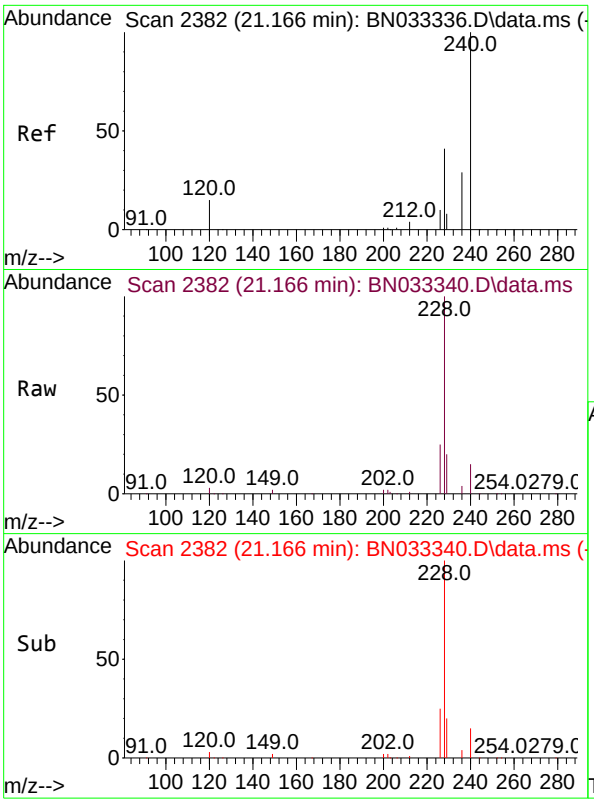


#28
Fluoranthene
Concen: 5.120 ng
RT: 19.030 min Scan# 1939
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:202 Resp: 408882

Ion	Ratio	Lower	Upper
202	100		
101	12.2	9.8	14.6
203	17.3	13.8	20.6



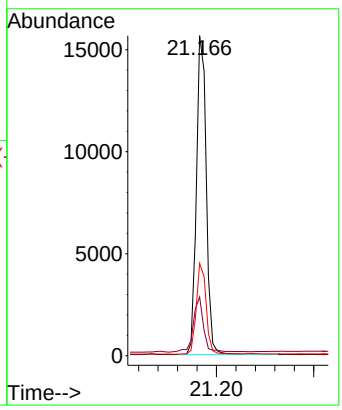


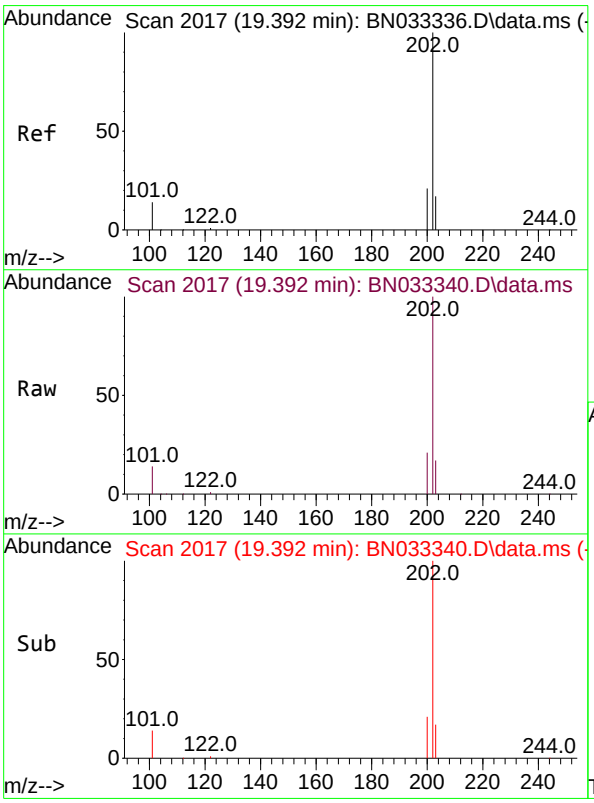
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.166 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 21930

Ion	Ratio	Lower	Upper
240	100		
120	18.3	13.0	19.6
236	28.9	23.2	34.8

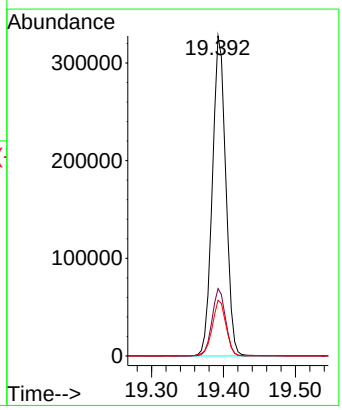


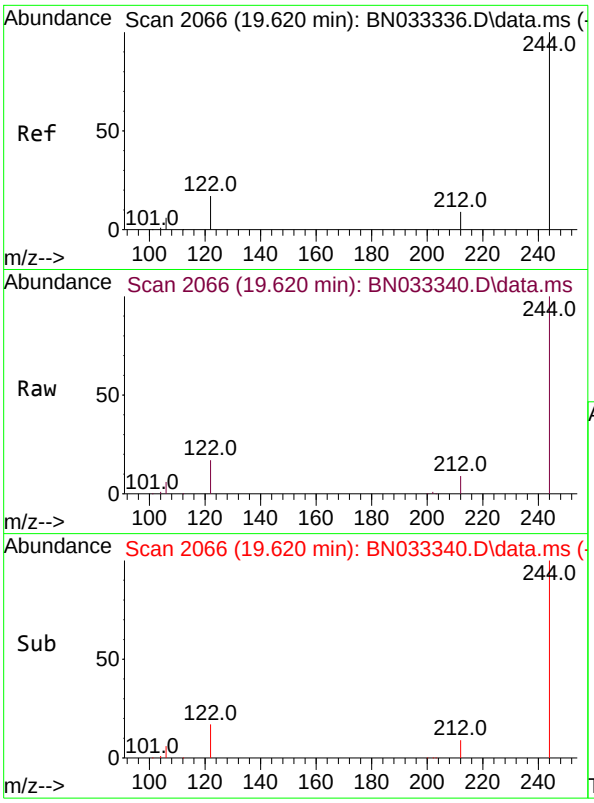


#30
Pyrene
Concen: 4.914 ng
RT: 19.392 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:202 Resp: 423934

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4



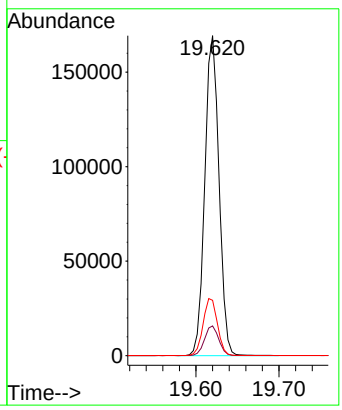


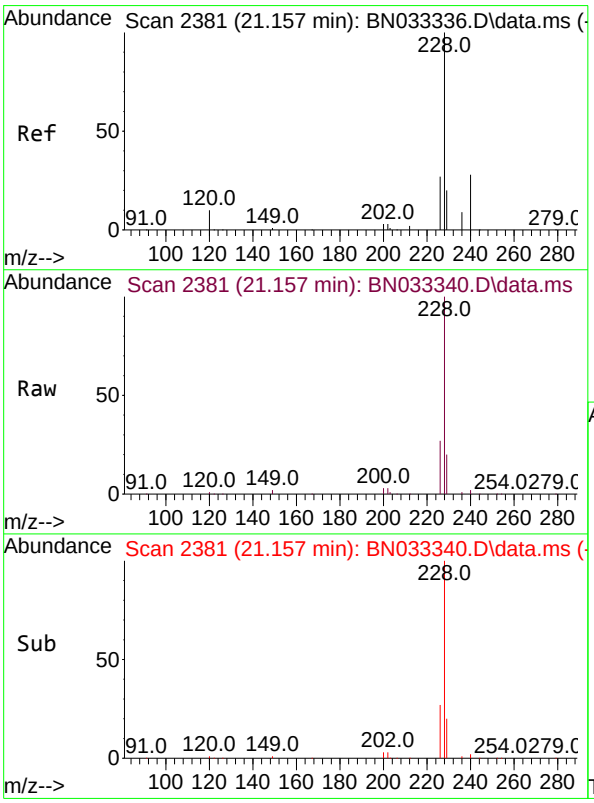
#31
Terphenyl-d14
Concen: 5.327 ng
RT: 19.620 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 201464

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.7	11.5
122	17.3	14.0	21.0

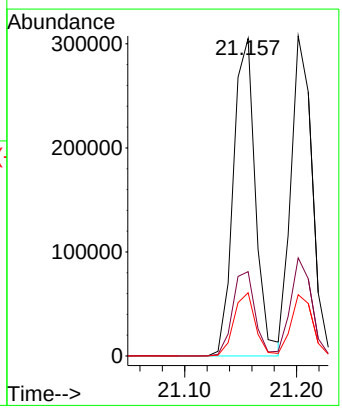


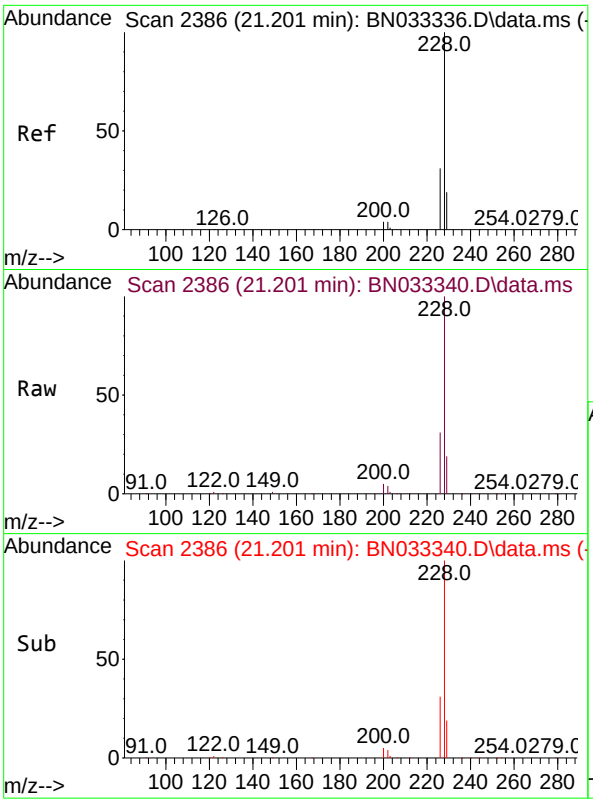


#32
Benzo(a)anthracene
Concen: 4.916 ng
RT: 21.157 min Scan# 2381
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:228 Resp: 418605

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.6	32.4
229	19.9	15.9	23.9



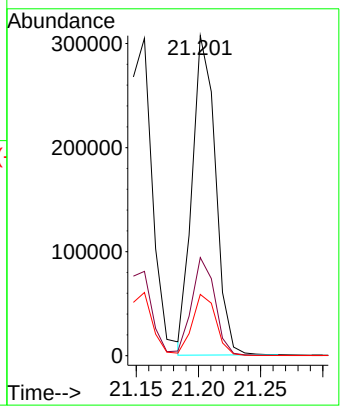


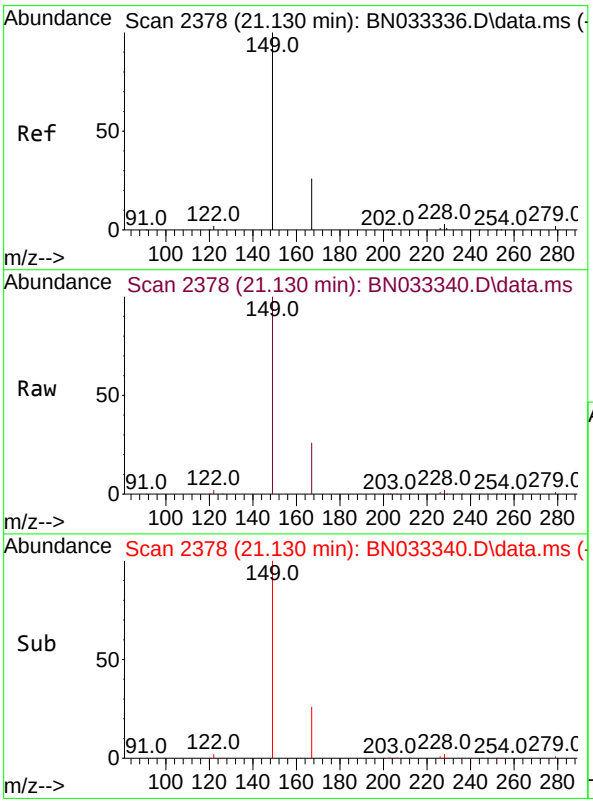
#33
Chrysene
Concen: 4.861 ng
RT: 21.201 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 400877

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.7	37.1
229	19.2	15.4	23.2

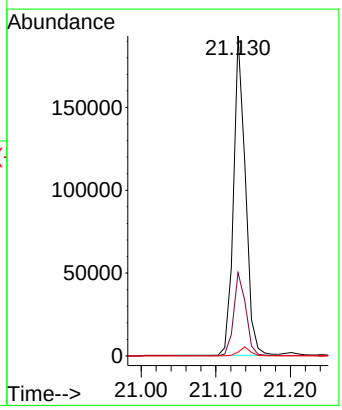


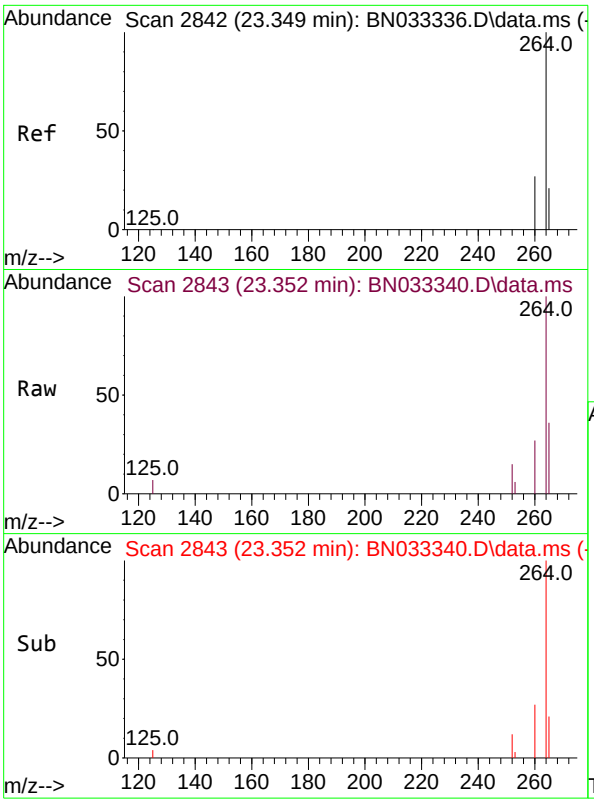


#34
Bis(2-ethylhexyl)phthalate
Concen: 4.817 ng
RT: 21.130 min Scan# 2378
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:149 Resp: 212477

Ion	Ratio	Lower	Upper
149	100		
167	26.5	20.9	31.3
279	2.7	2.2	3.4



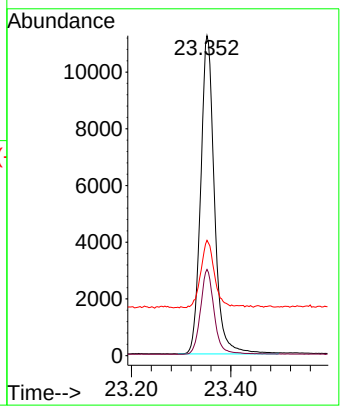


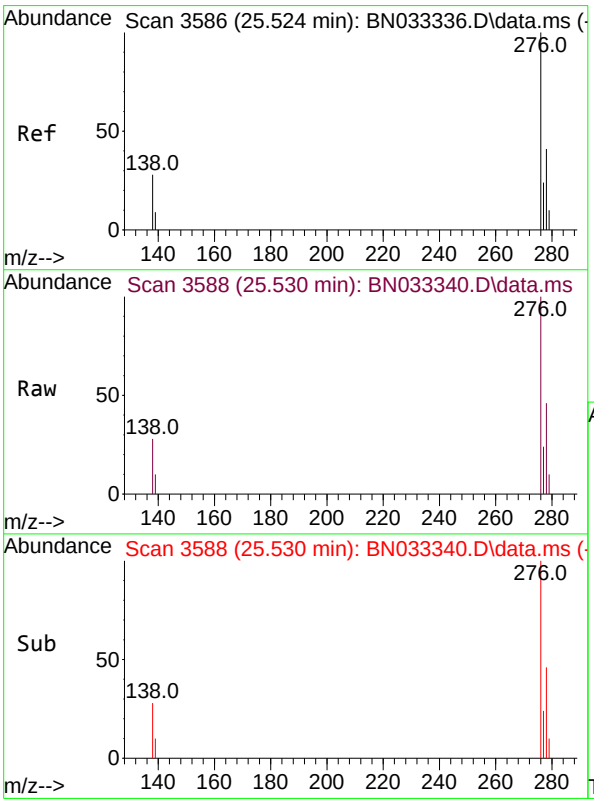
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.352 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 21624

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.6	32.4
265	36.0	29.3	43.9

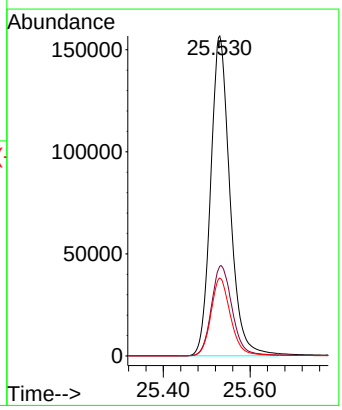


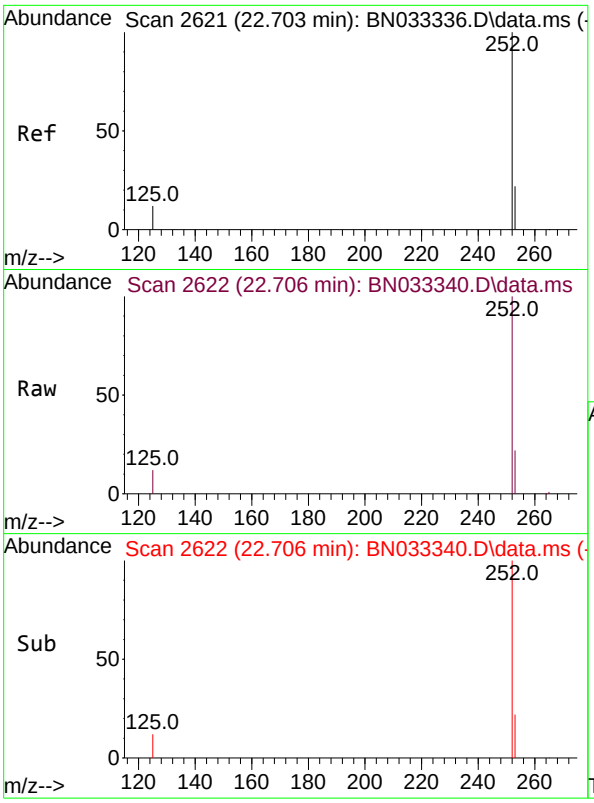


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.110 ng
RT: 25.530 min Scan# 3588
Delta R.T. 0.006 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:276 Resp: 483330

Ion	Ratio	Lower	Upper
276	100		
138	30.4	24.9	37.3
277	24.8	19.8	29.6



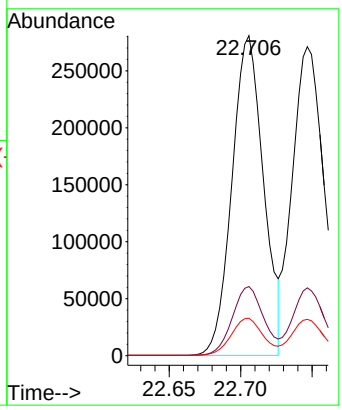


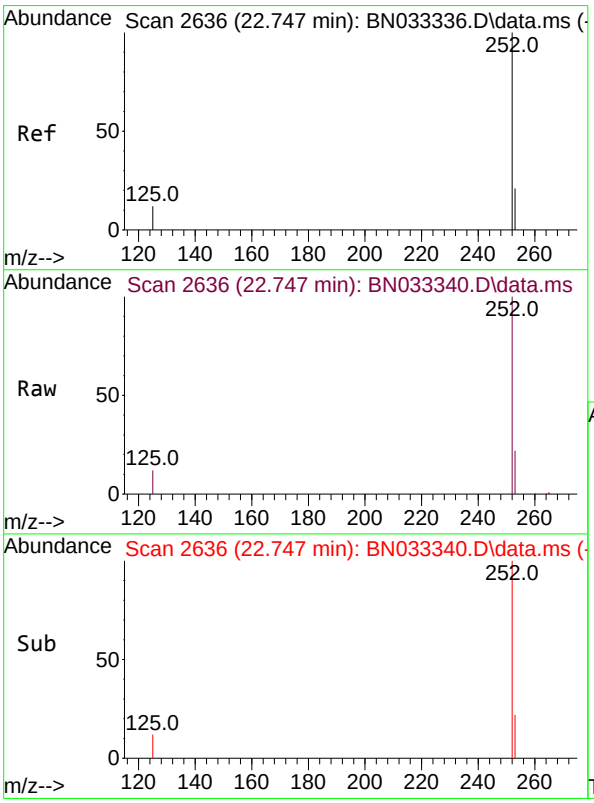
#37
Benzo(b)fluoranthene
Concen: 5.358 ng
RT: 22.706 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 430535

Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.2	27.2
125	11.7	11.3	16.9

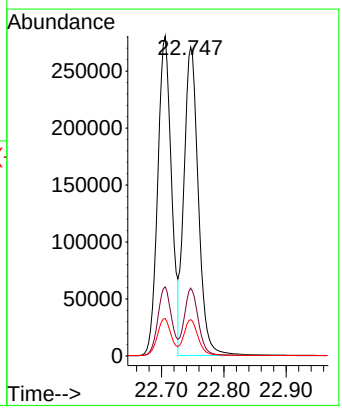


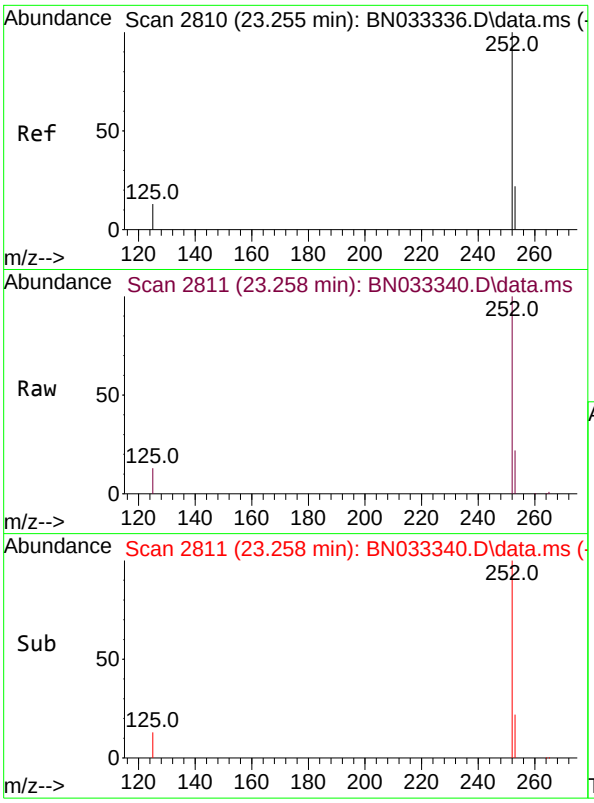


#38
Benzo(k)fluoranthene
Concen: 5.556 ng
RT: 22.747 min Scan# 2636
Delta R.T. -0.000 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:252 Resp: 433718

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9
125	11.8	11.3	16.9



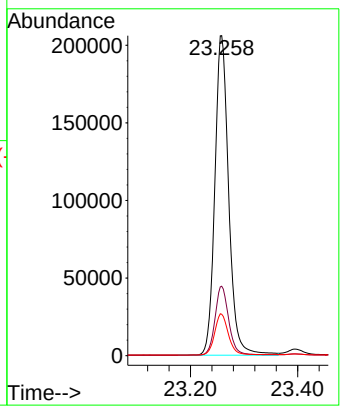


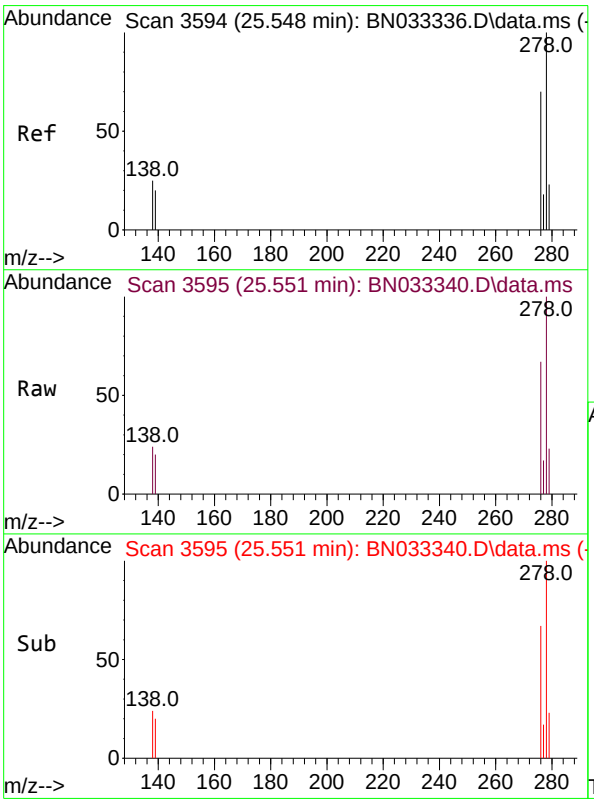
#39
Benzo(a)pyrene
Concen: 5.182 ng
RT: 23.258 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 370069

Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.6	28.0
125	13.0	12.6	19.0

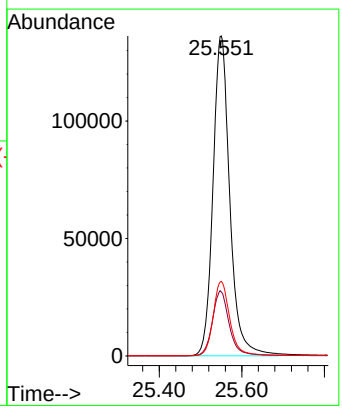


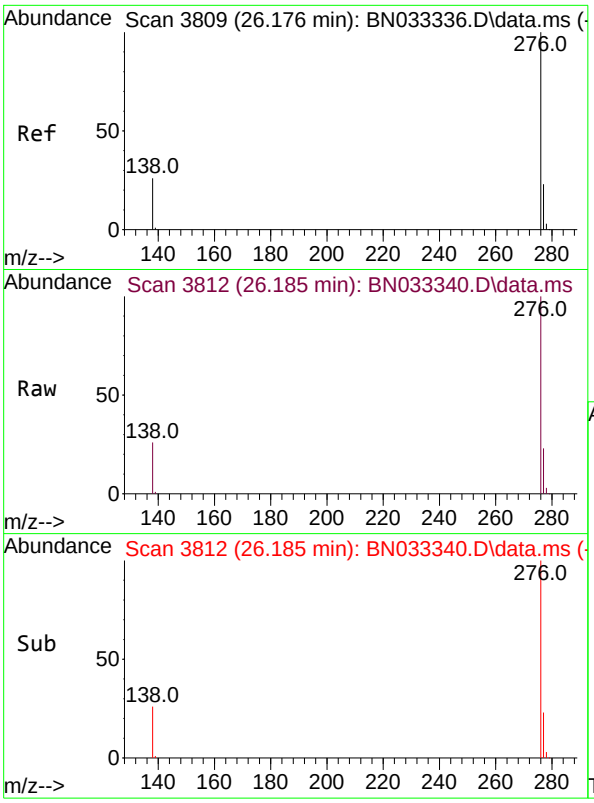


#40
Dibenzo(a,h)anthracene
Concen: 5.146 ng
RT: 25.551 min Scan# 3595
Delta R.T. 0.003 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Tgt Ion:278 Resp: 384486

Ion	Ratio	Lower	Upper
278	100		
139	19.9	17.0	25.6
279	23.3	20.0	30.0





#41
Benzo(g,h,i)perylene
Concen: 5.061 ng
RT: 26.185 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN033340.D
Acq: 10 Aug 2024 17:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 411316

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.2
138	25.9	21.6	32.4