Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070924\
Data File : BN032560.D
Acq On : 08 Jul 2024 21:03
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jul 09 02:22:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN070924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 09 02:20:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.588	152	4192	0.400	ng		0.00
7) Naphthalene-d8	10.368	136	13672	0.400	ng		-0.01
13) Acenaphthene-d10	14.231	164	8889	0.400	ng		0.00
19) Phenanthrene-d10	16.991	188	19548	0.400	ng		#-0.01
29) Chrysene-d12	21.202	240	15094	0.400	ng		0.00
35) Perylene-d12	23.420	264	15644	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.212	112	8243	0.785	ng		0.00
5) Phenol-d6	6.801	99	10805	0.808	ng		-0.02
8) Nitrobenzene-d5	8.766	82	7432	0.748	ng		-0.03
11) 2-Methylnaphthalene-d10	11.968	152	17167	0.811	ng		-0.02
14) 2,4,6-Tribromophenol	15.750	330	3121	0.749	ng		-0.01
15) 2-Fluorobiphenyl	12.852	172	26319	0.793	ng		-0.01
27) Fluoranthene-d10	19.035	212	38875	0.763	ng		0.00
31) Terphenyl-d14	19.644	244	29364	0.797	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.161	88	4107	0.730	ng		99
3) n-Nitrosodimethylamine	3.486	42	3124	0.765	ng		97
6) bis(2-Chloroethyl)ether	7.032	93	8420	0.993	ng		95
9) Naphthalene	10.410	128	29114	0.778	ng		97
10) Hexachlorobutadiene	10.667	225	5658	0.761	ng	#	99
12) 2-Methylnaphthalene	12.043	142	19720	0.803	ng		99
16) Acenaphthylene	13.953	152	29743	0.781	ng		100
17) Acenaphthene	14.296	154	21118	0.794	ng		100
18) Fluorene	15.290	166	27820	0.801	ng		100
20) 4,6-Dinitro-2-methylph...	15.461	198	1493	0.588	ng	#	55
21) 4-Bromophenyl-phenylether	16.185	248	8833	0.776	ng		93
22) Hexachlorobenzene	16.296	284	9929	0.772	ng		99
23) Atrazine	16.470	200	6780	0.760	ng		95
24) Pentachlorophenol	16.681	266	3182	0.723	ng		98
25) Phenanthrene	17.041	178	41953	0.789	ng		100
26) Anthracene	17.140	178	33662	0.788	ng		99
28) Fluoranthene	19.068	202	48164	0.751	ng		100
30) Pyrene	19.435	202	49472	0.806	ng		100
32) Benzo(a)anthracene	21.193	228	38828	0.778	ng		100
33) Chrysene	21.247	228	46644	0.868	ng		100
34) Bis(2-ethylhexyl)phtha...	21.095	149	24781	0.730	ng		100
36) Indeno(1,2,3-cd)pyrene	25.653	276	46951	0.796	ng		100
37) Benzo(b)fluoranthene	22.753	252	39964	0.766	ng	#	92
38) Benzo(k)fluoranthene	22.800	252	47592	0.792	ng	#	94
39) Benzo(a)pyrene	23.329	252	38062	0.771	ng	#	88
40) Dibenzo(a,h)anthracene	25.665	278	37238	0.797	ng		94
41) Benzo(g,h,i)perylene	26.338	276	40537	0.792	ng		96

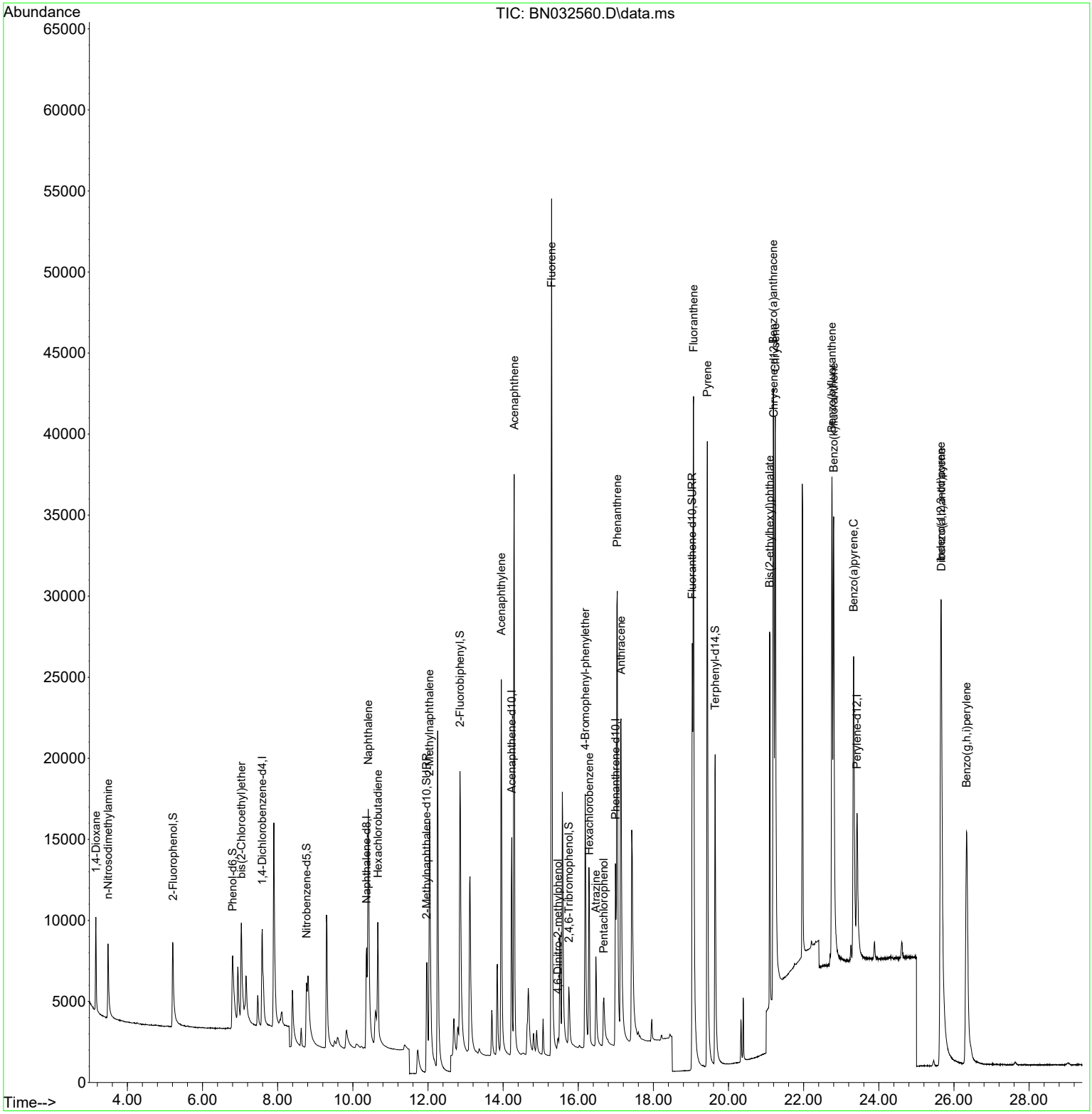
(#) = qualifier out of range (m) = manual integration (+) = signals summed

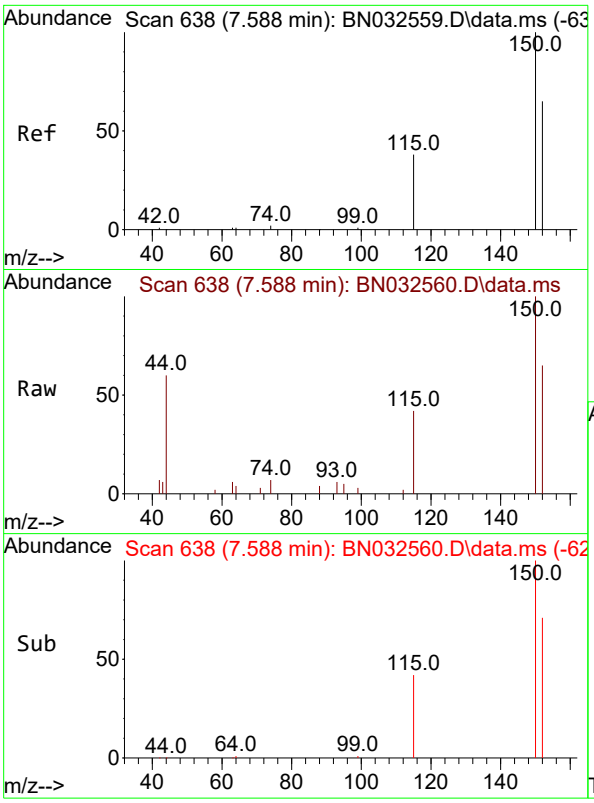
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN070924\
Data File : BN032560.D
Acq On : 08 Jul 2024 21:03
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jul 09 02:22:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN070924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 09 02:20:28 2024
Response via : Initial Calibration



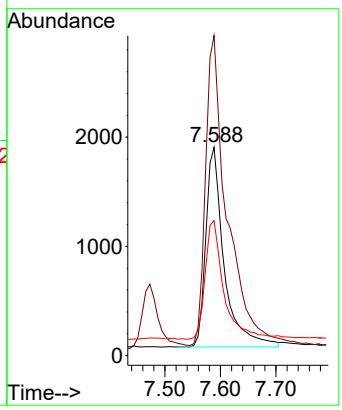


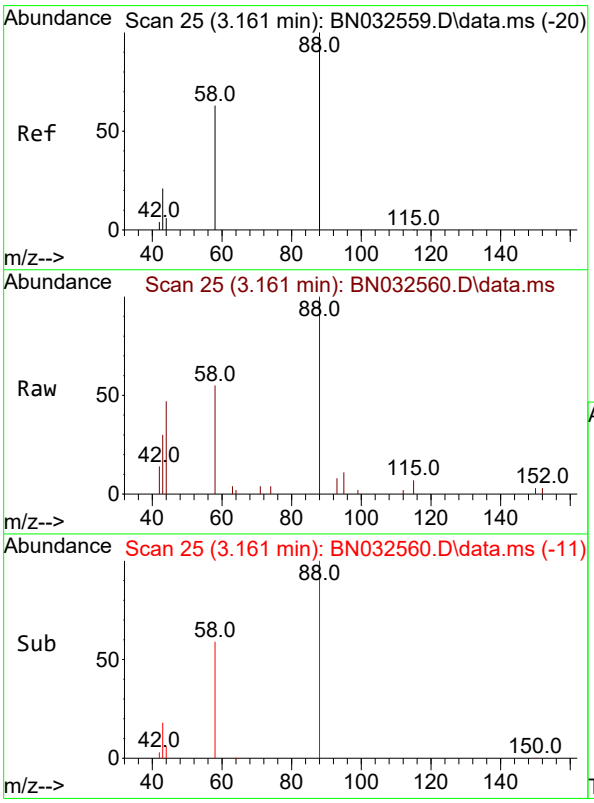
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.588 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 4192

Ion	Ratio	Lower	Upper
152	100		
150	153.5	121.6	182.4
115	64.8	53.1	79.7

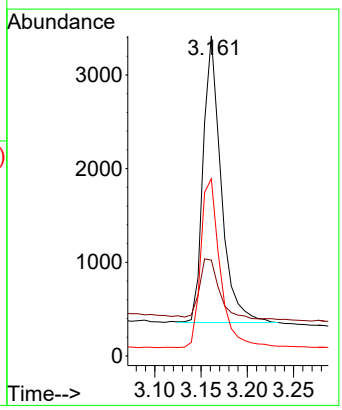


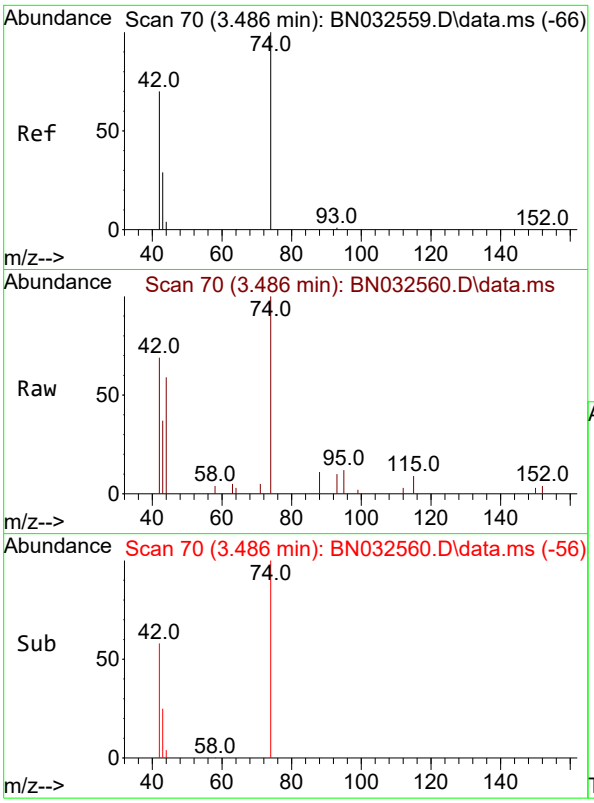


#2
1,4-Dioxane
Concen: 0.730 ng
RT: 3.161 min Scan# 25
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion: 88 Resp: 4107

Ion	Ratio	Lower	Upper
88	100		
43	24.0	20.4	30.6
58	64.3	51.0	76.6



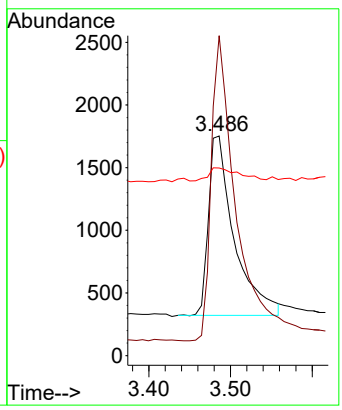


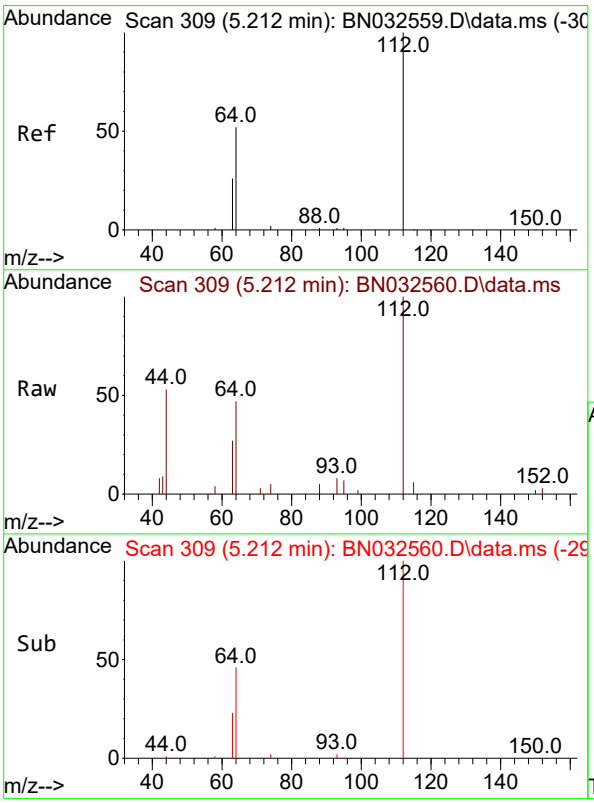
#3
n-Nitrosodimethylamine
Concen: 0.765 ng
RT: 3.486 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 3124

Ion	Ratio	Lower	Upper
42	100		
74	162.8	126.8	190.2
44	8.8	8.7	13.1

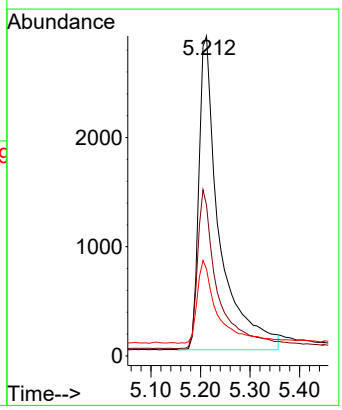


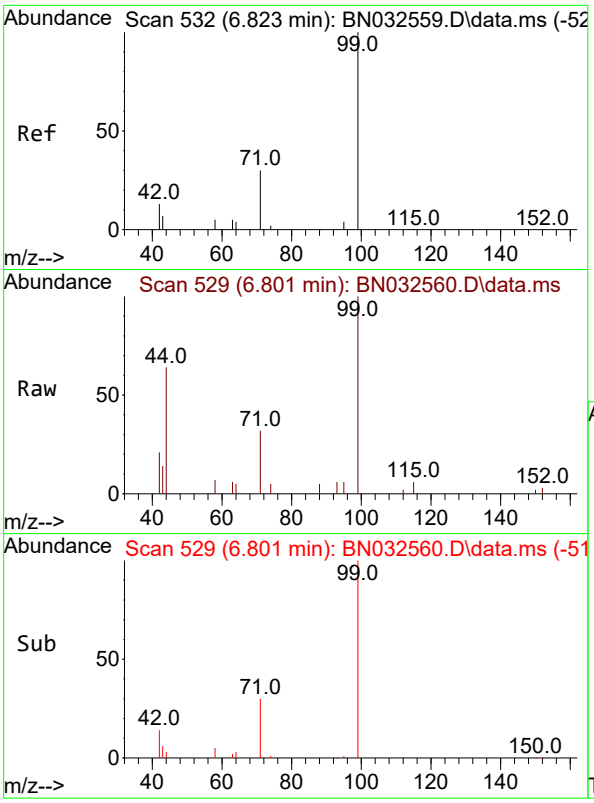


#4
2-Fluorophenol
Concen: 0.785 ng
RT: 5.212 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:112 Resp: 8243

Ion	Ratio	Lower	Upper
112	100		
64	49.7	41.2	61.8
63	26.3	21.6	32.4



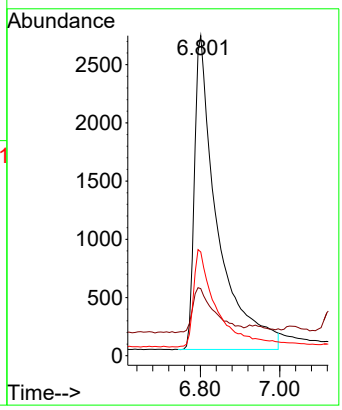


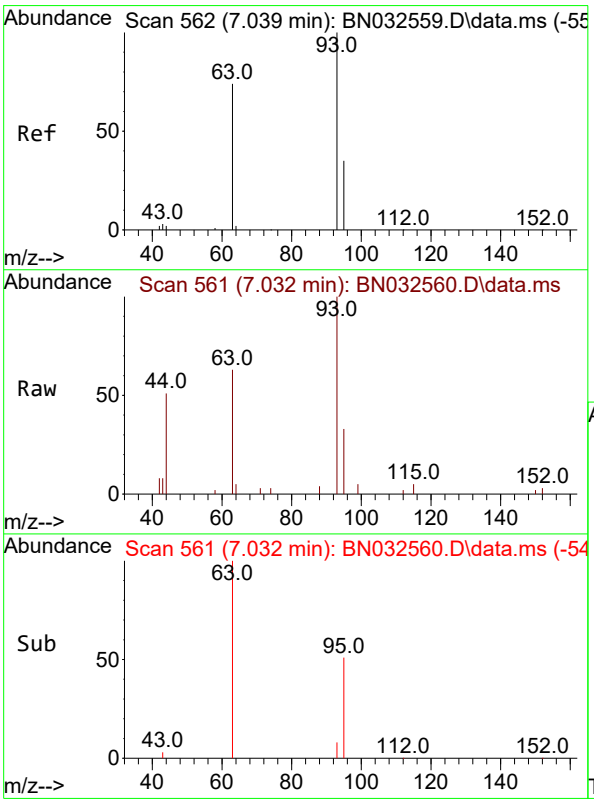
#5
Phenol-d6
Concen: 0.808 ng
RT: 6.801 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 10805

Ion	Ratio	Lower	Upper
99	100		
42	13.8	10.6	16.0
71	31.1	25.2	37.8

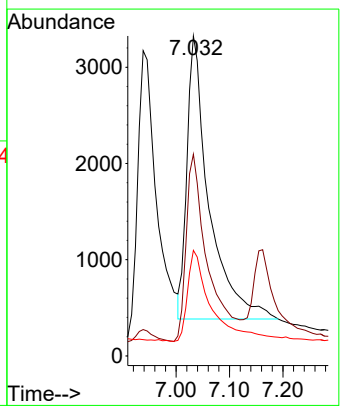


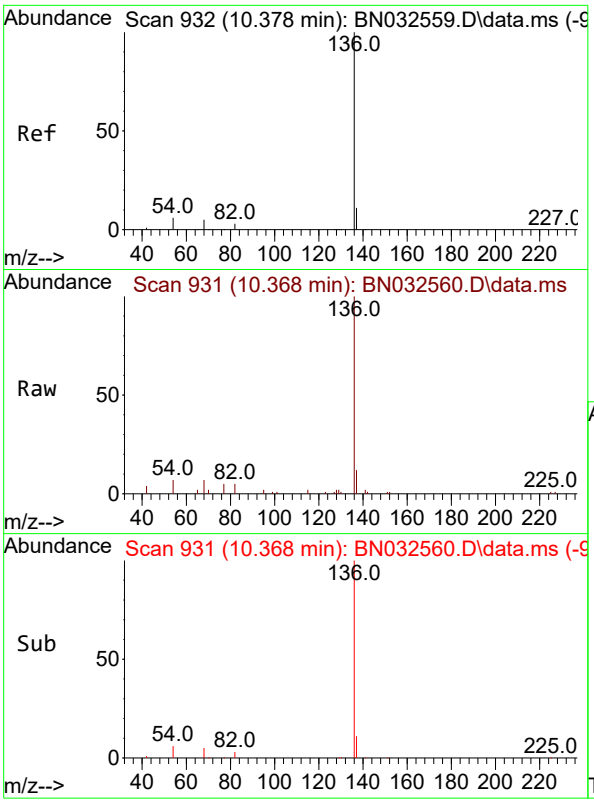


#6
bis(2-Chloroethyl)ether
Concen: 0.993 ng
RT: 7.032 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion: 93 Resp: 8420

Ion	Ratio	Lower	Upper
93	100		
63	64.2	54.1	81.1
95	34.9	30.5	45.7



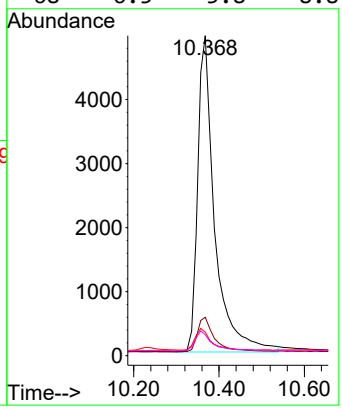


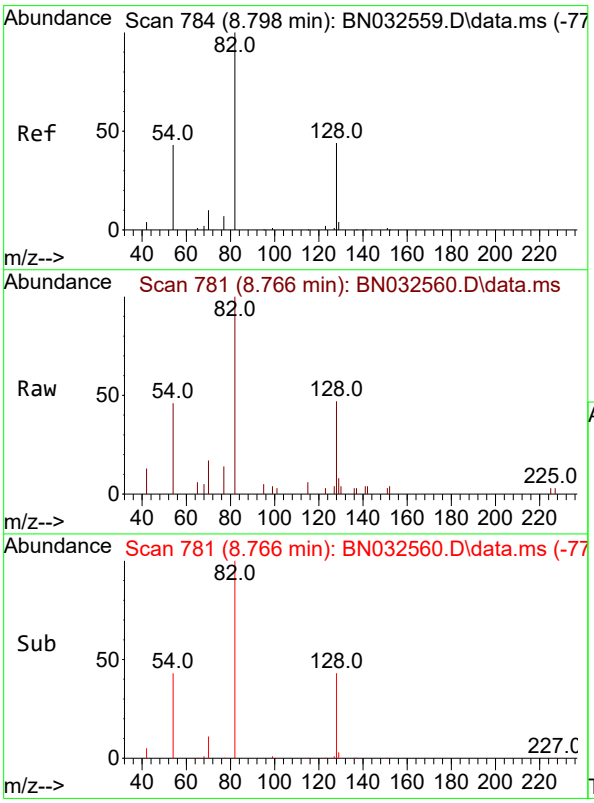
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.368 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 13672

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.0	15.0
54	7.4	6.6	9.8
68	6.5	5.8	8.8

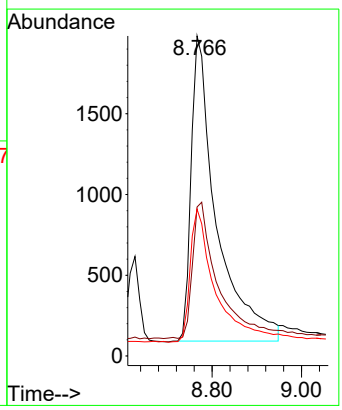


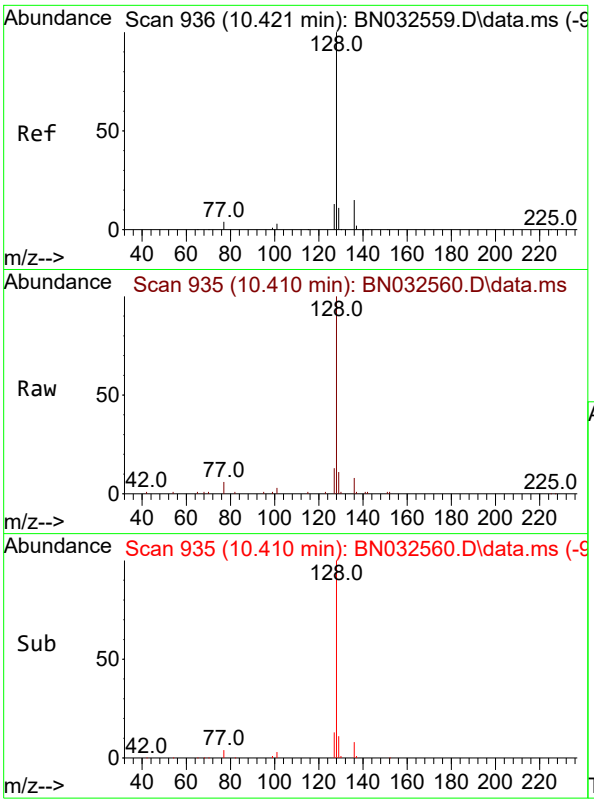


#8
Nitrobenzene-d5
Concen: 0.748 ng
RT: 8.766 min Scan# 781
Delta R.T. -0.032 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion: 82 Resp: 7432

Ion	Ratio	Lower	Upper
82	100		
128	46.5	43.4	65.2
54	45.9	40.2	60.2



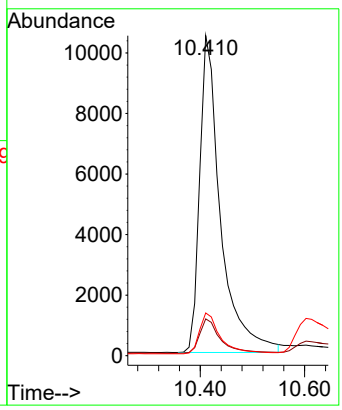


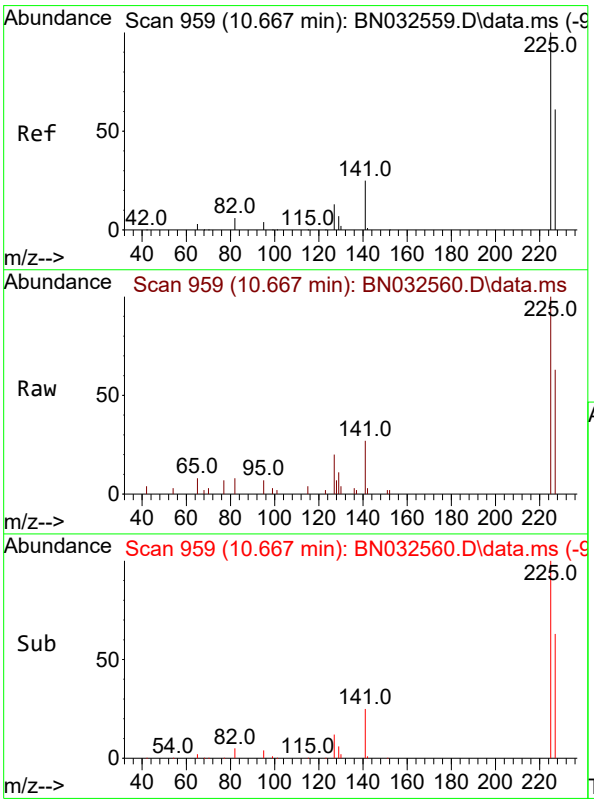
#9
Naphthalene
Concen: 0.778 ng
RT: 10.410 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 29114

Ion	Ratio	Lower	Upper
128	100		
129	11.5	10.2	15.4
127	13.3	11.4	17.0

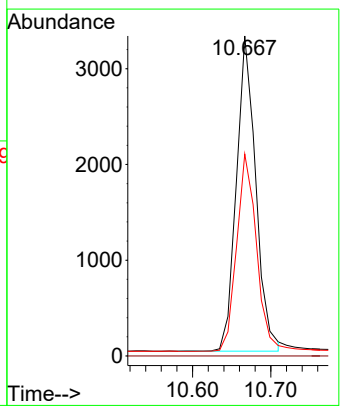


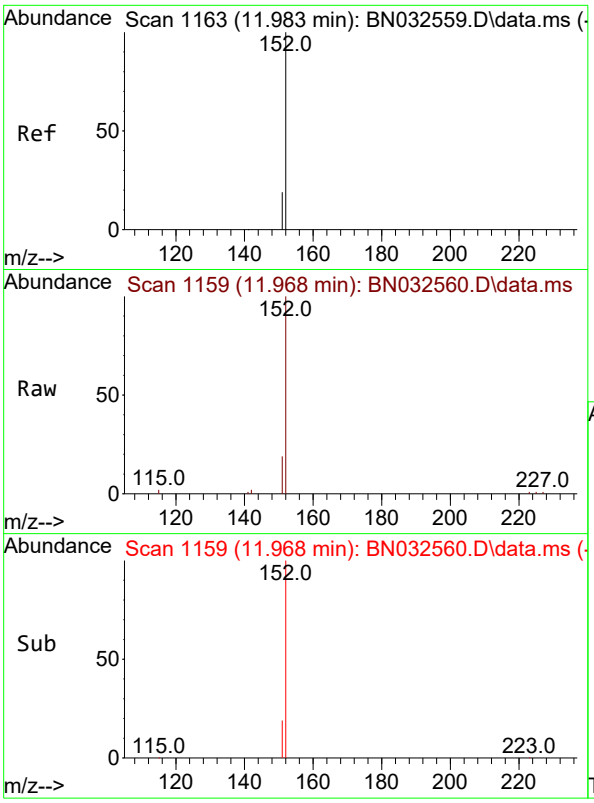


#10
Hexachlorobutadiene
Concen: 0.761 ng
RT: 10.667 min Scan# 959
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:225 Resp: 5658

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.6	76.0



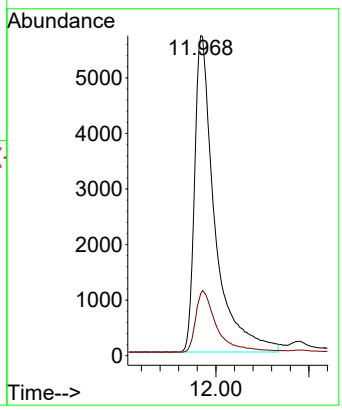


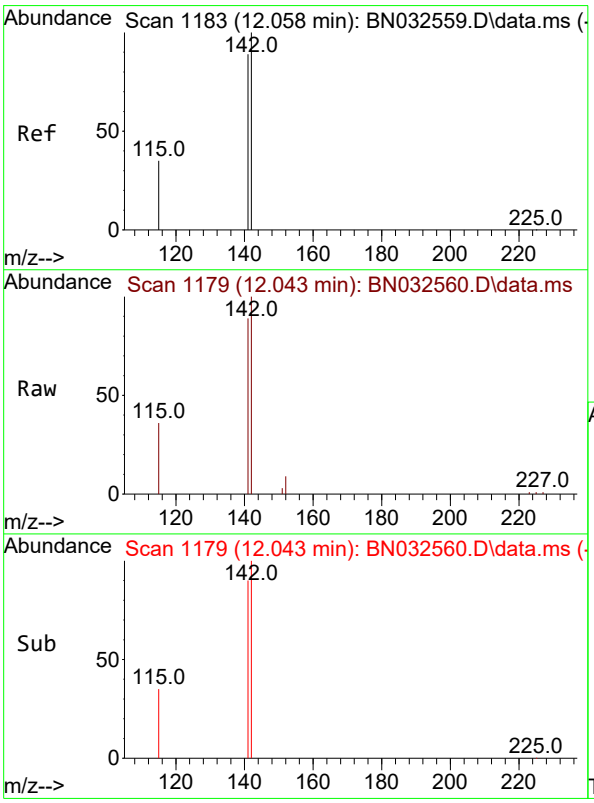
#11
2-Methylnaphthalene-d10
Concen: 0.811 ng
RT: 11.968 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 17167

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6

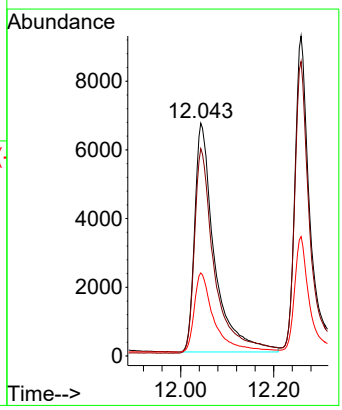


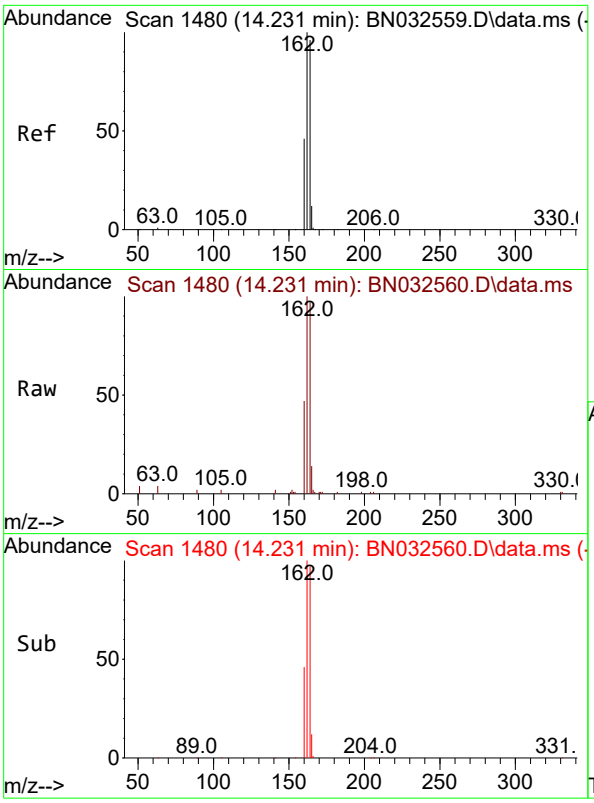


#12
2-Methylnaphthalene
Concen: 0.803 ng
RT: 12.043 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:142 Resp: 19720

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.0	106.6
115	35.7	30.5	45.7



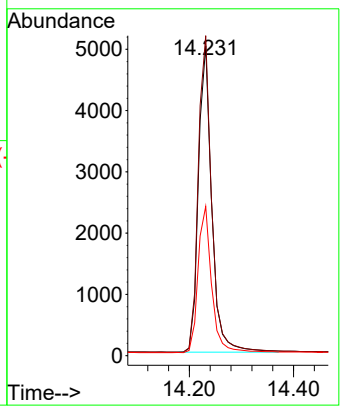


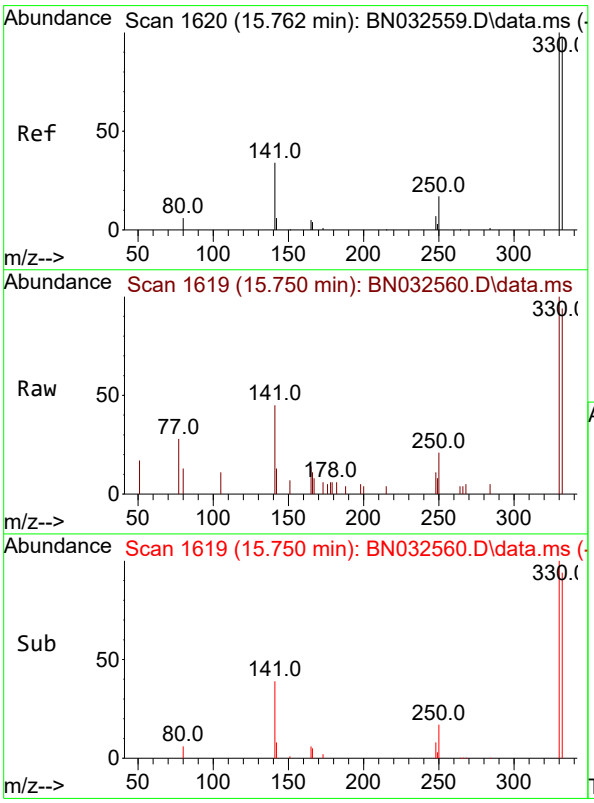
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.231 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 8889

Ion	Ratio	Lower	Upper
164	100		
162	103.3	83.2	124.8
160	48.2	38.6	57.8

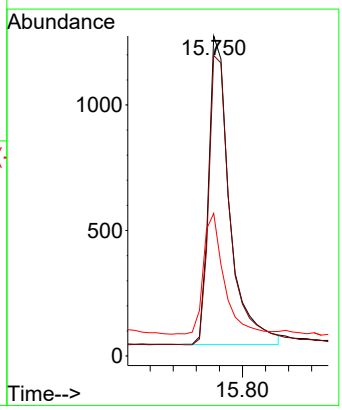


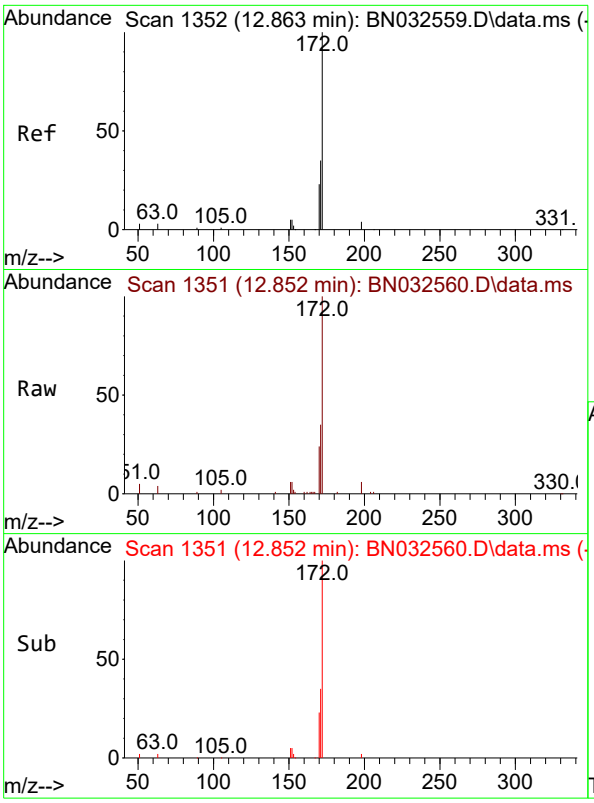


#14
2,4,6-Tribromophenol
Concen: 0.749 ng
RT: 15.750 min Scan# 1619
Delta R.T. -0.012 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:330 Resp: 3121

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.7	116.5
141	37.7	31.8	47.8



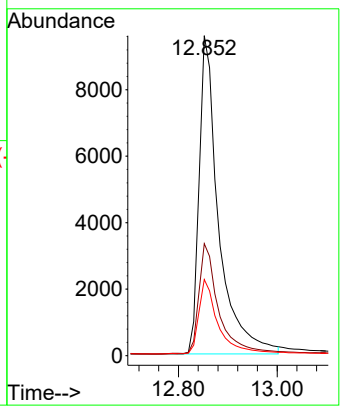


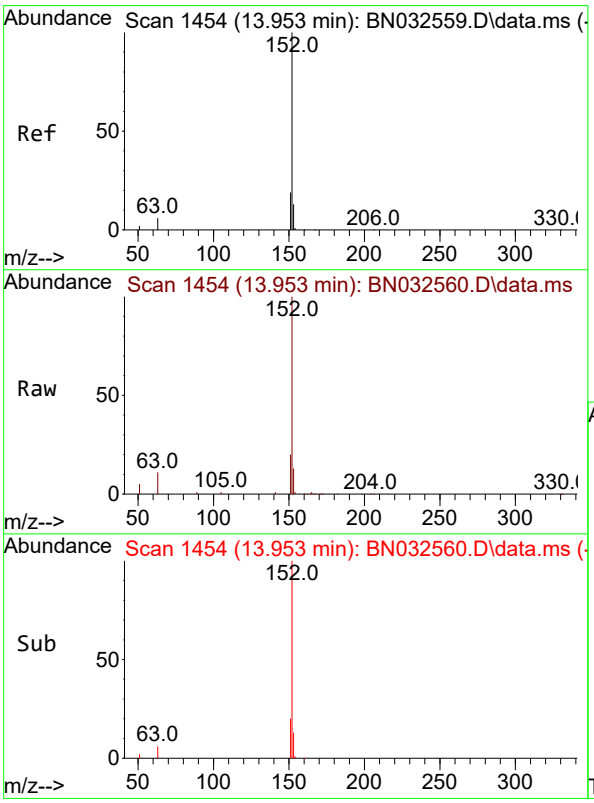
#15
2-Fluorobiphenyl
Concen: 0.793 ng
RT: 12.852 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 26319

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.5	42.7
170	23.8	19.2	28.8

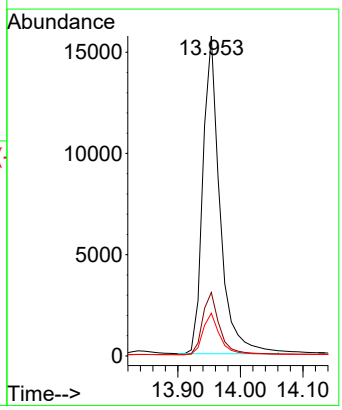


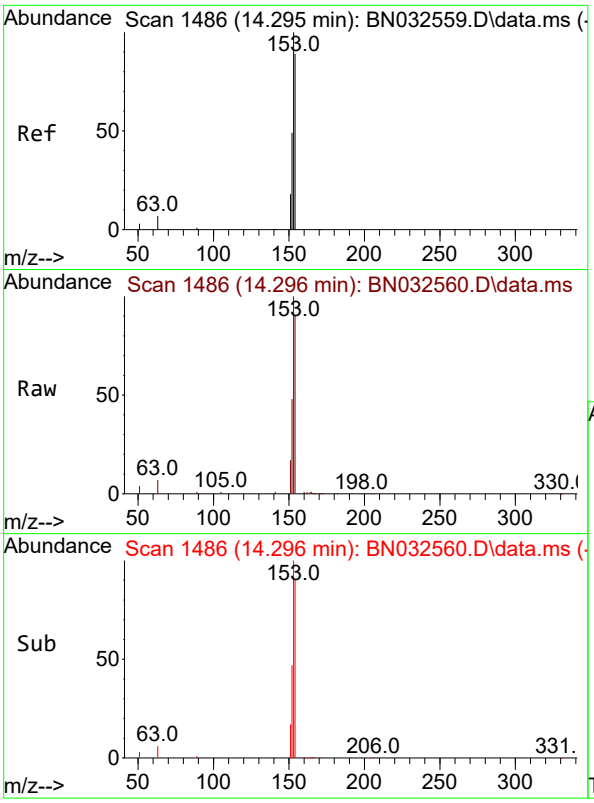


#16
Acenaphthylene
Concen: 0.781 ng
RT: 13.953 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:152 Resp: 29743

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.6	23.4
153	13.1	10.5	15.7



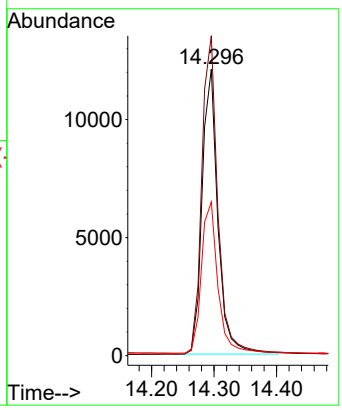


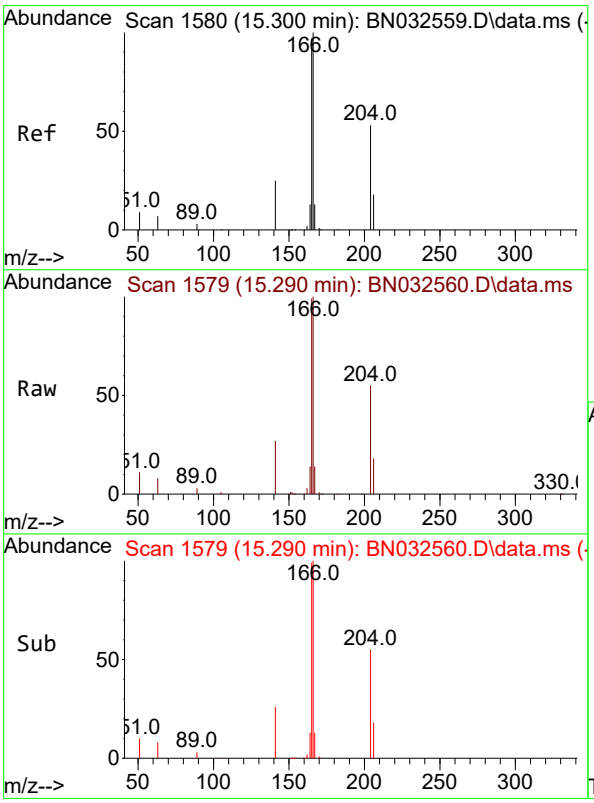
#17
Acenaphthene
Concen: 0.794 ng
RT: 14.296 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 21118

Ion	Ratio	Lower	Upper
154	100		
153	113.9	90.9	136.3
152	55.2	44.4	66.6

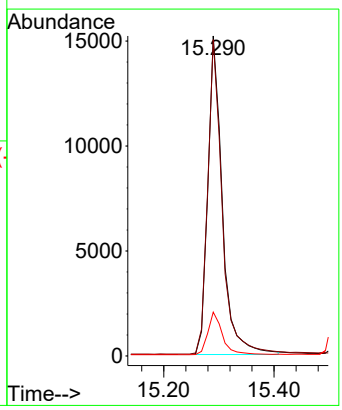


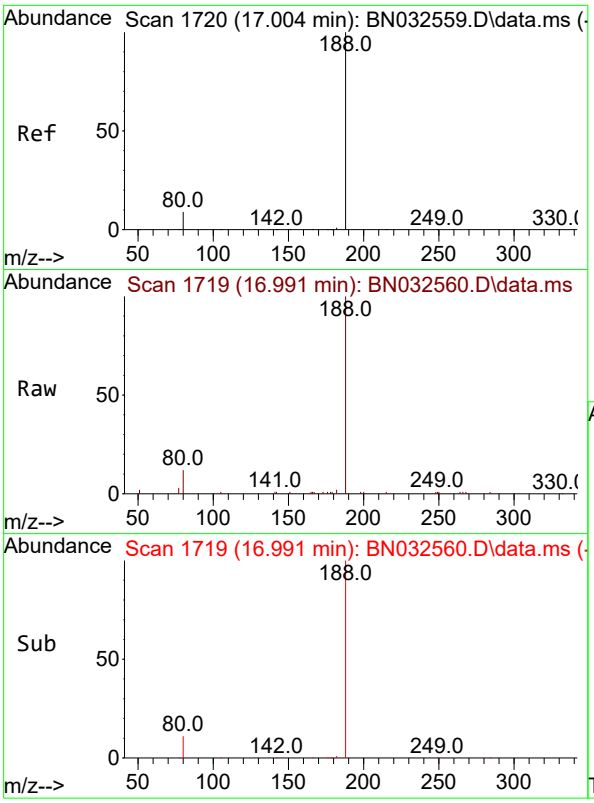


#18
Fluorene
Concen: 0.801 ng
RT: 15.290 min Scan# 1579
Delta R.T. -0.011 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:166 Resp: 27820

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.7	118.1
167	13.4	10.7	16.1



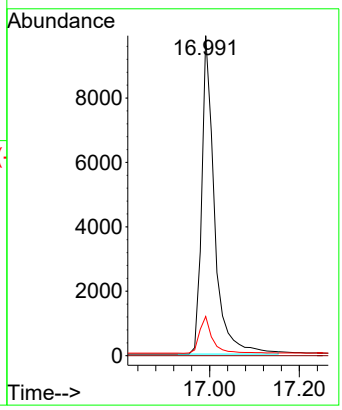


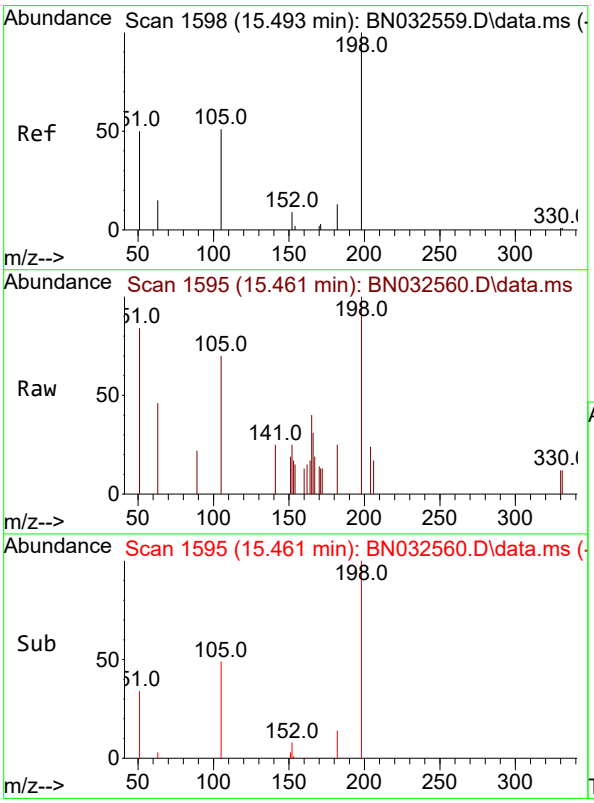
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.991 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 19548

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	7.8	11.6#

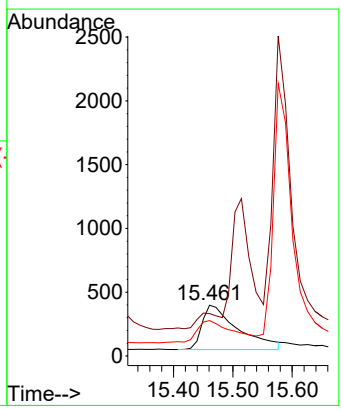


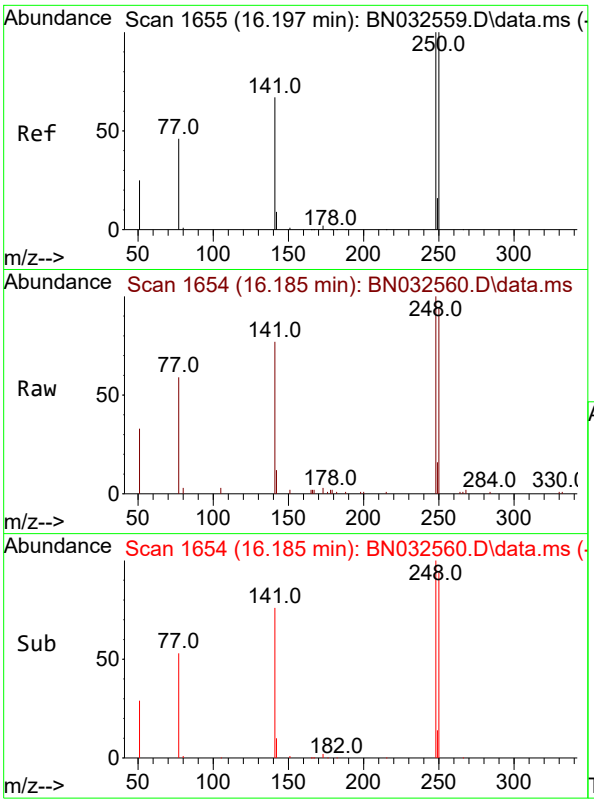


#20
4,6-Dinitro-2-methylphenol
Concen: 0.588 ng
RT: 15.461 min Scan# 1595
Delta R.T. -0.032 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:198 Resp: 1493

Ion	Ratio	Lower	Upper
198	100		
51	83.7	123.4	185.2#
105	69.8	79.5	119.3#



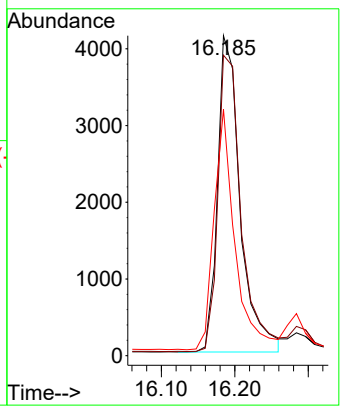


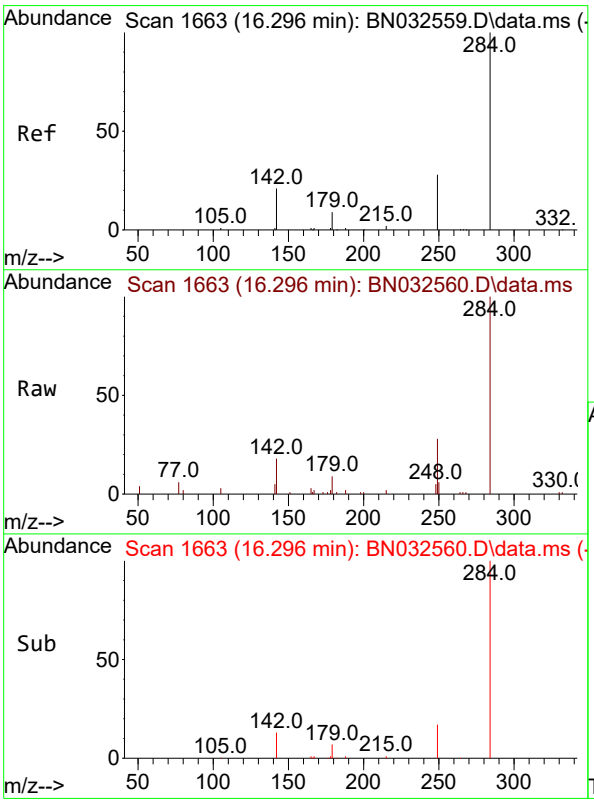
#21
4-Bromophenyl-phenylether
Concen: 0.776 ng
RT: 16.185 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 8833

Ion	Ratio	Lower	Upper
248	100		
250	93.9	80.2	120.2
141	77.0	55.7	83.5

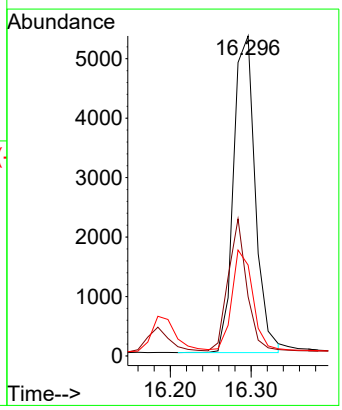


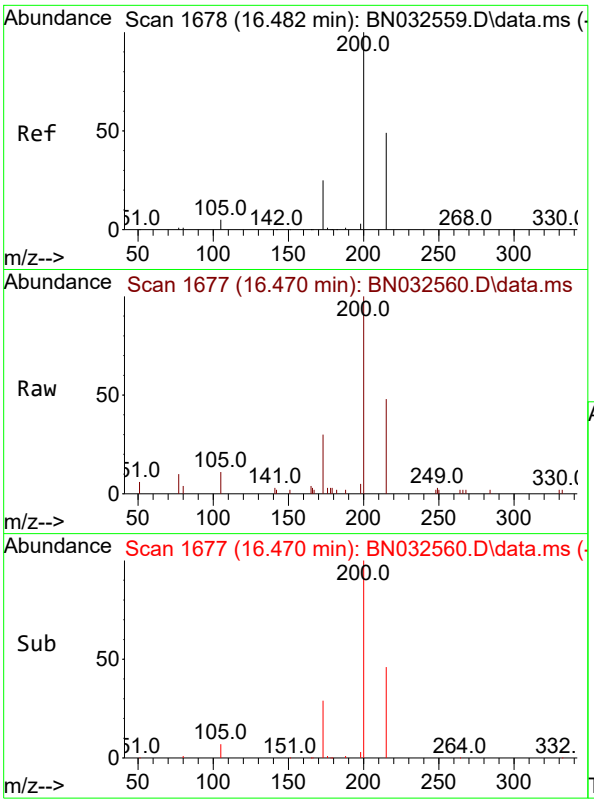


#22
Hexachlorobenzene
Concen: 0.772 ng
RT: 16.296 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:284 Resp: 9929

Ion	Ratio	Lower	Upper
284	100		
142	35.7	27.6	41.4
249	29.6	23.6	35.4



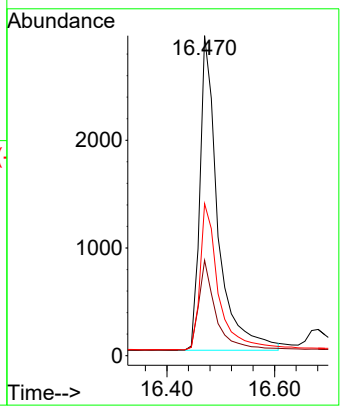


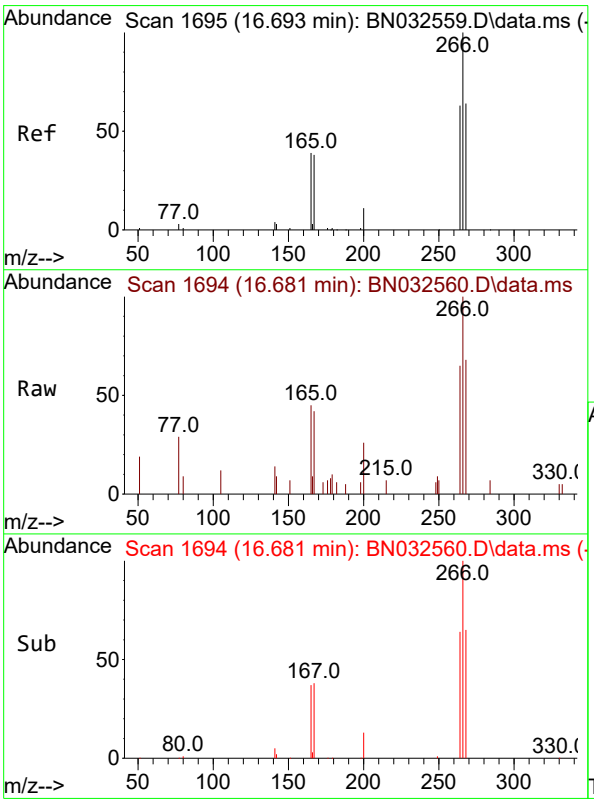
#23
Atrazine
Concen: 0.760 ng
RT: 16.470 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 6780

Ion	Ratio	Lower	Upper
200	100		
173	29.8	22.3	33.5
215	47.5	41.0	61.6

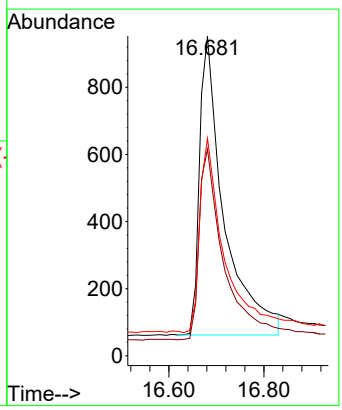


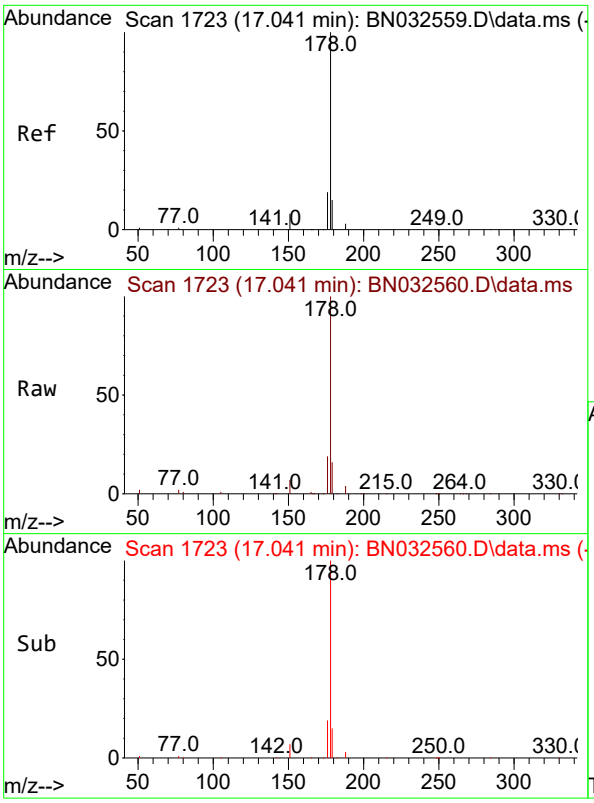


#24
Pentachlorophenol
Concen: 0.723 ng
RT: 16.681 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:266 Resp: 3182

Ion	Ratio	Lower	Upper
266	100		
264	64.5	49.6	74.4
268	65.5	52.2	78.2



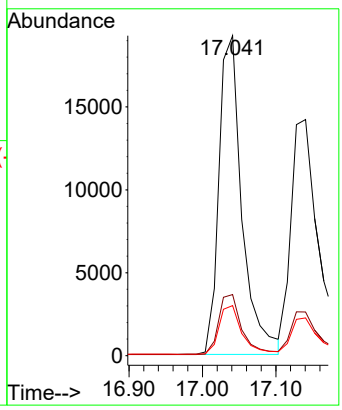


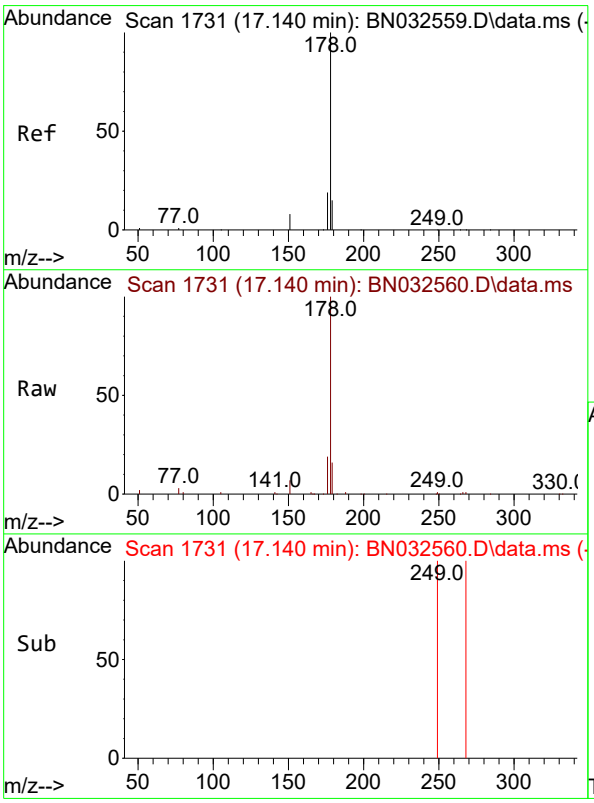
#25
Phenanthrene
Concen: 0.789 ng
RT: 17.041 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 41953

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.3	12.2	18.4

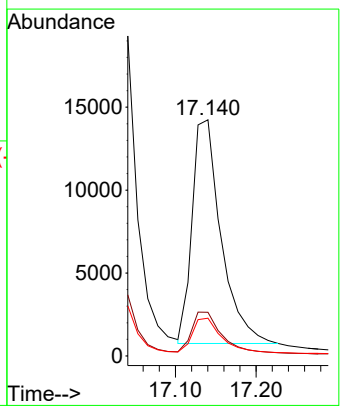


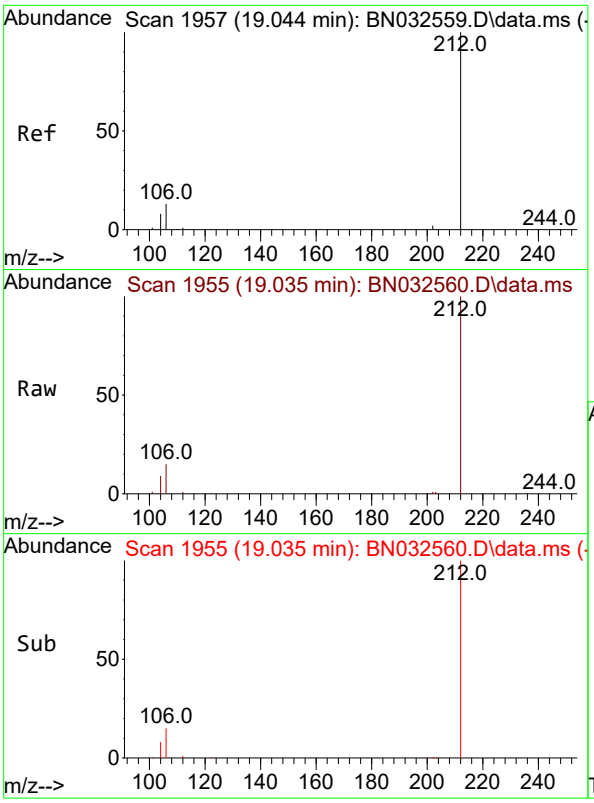


#26
Anthracene
Concen: 0.788 ng
RT: 17.140 min Scan# 1731
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:178 Resp: 33662

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.4
179	15.3	11.9	17.9



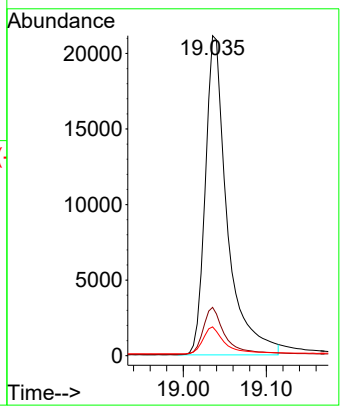


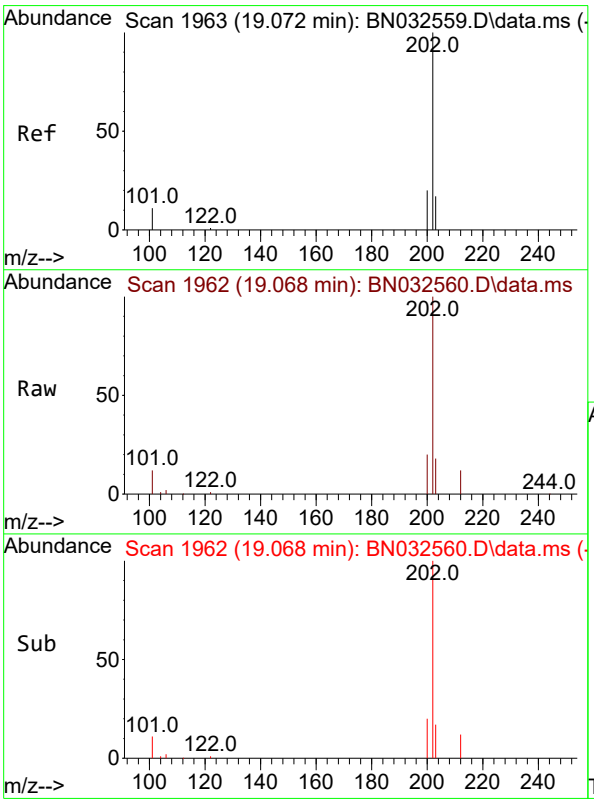
#27
Fluoranthene-d10
Concen: 0.763 ng
RT: 19.035 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 38875

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.8
104	8.4	6.9	10.3

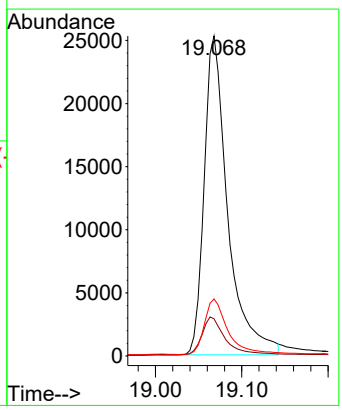


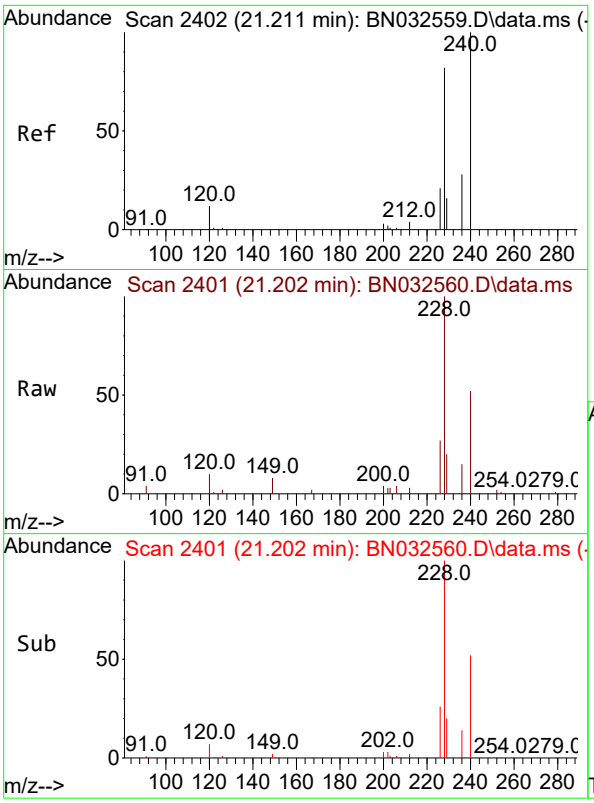


#28
Fluoranthene
Concen: 0.751 ng
RT: 19.068 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:202 Resp: 48164

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.5	14.3
203	17.2	13.8	20.6



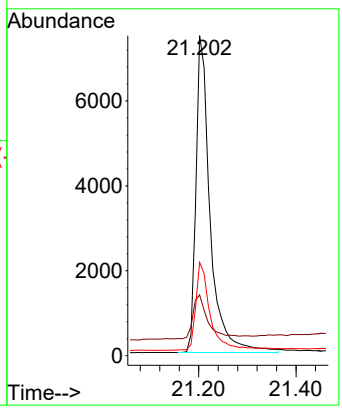


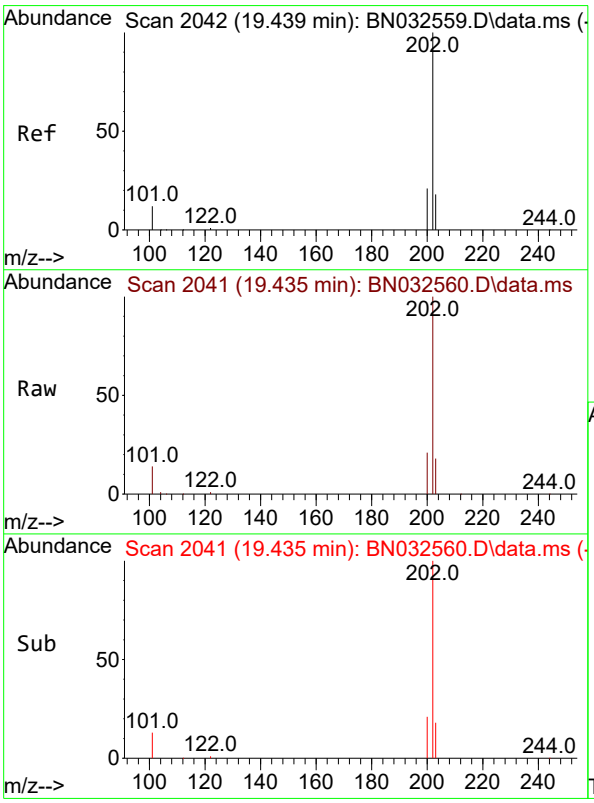
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.202 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 15094

Ion	Ratio	Lower	Upper
240	100		
120	19.0	13.0	19.4
236	29.1	23.1	34.7

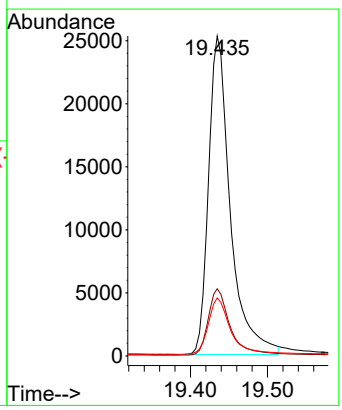


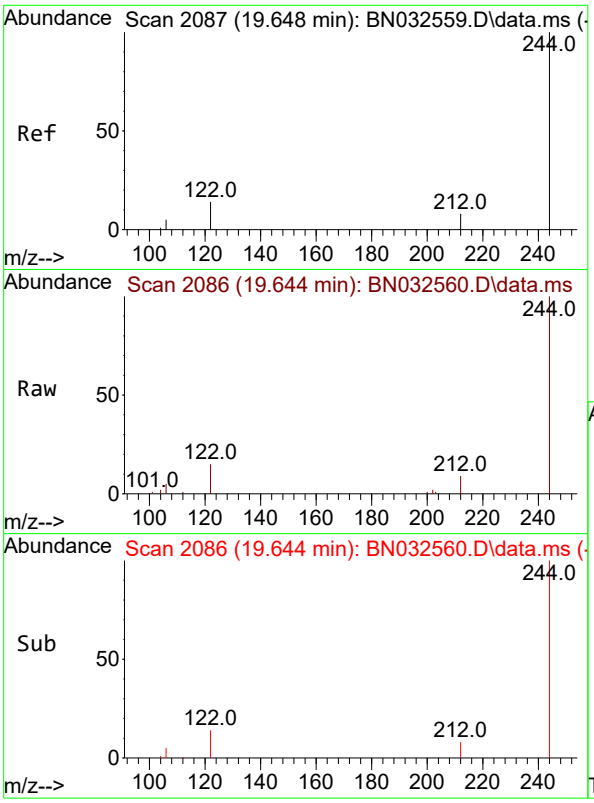


#30
Pyrene
Concen: 0.806 ng
RT: 19.435 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:202 Resp: 49472

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.6	24.8
203	17.9	14.4	21.6



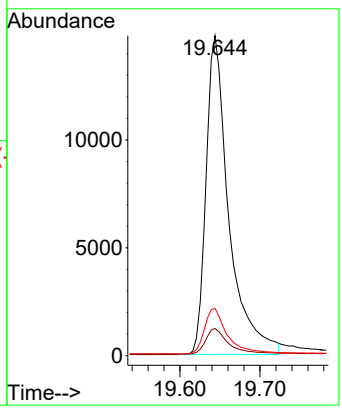


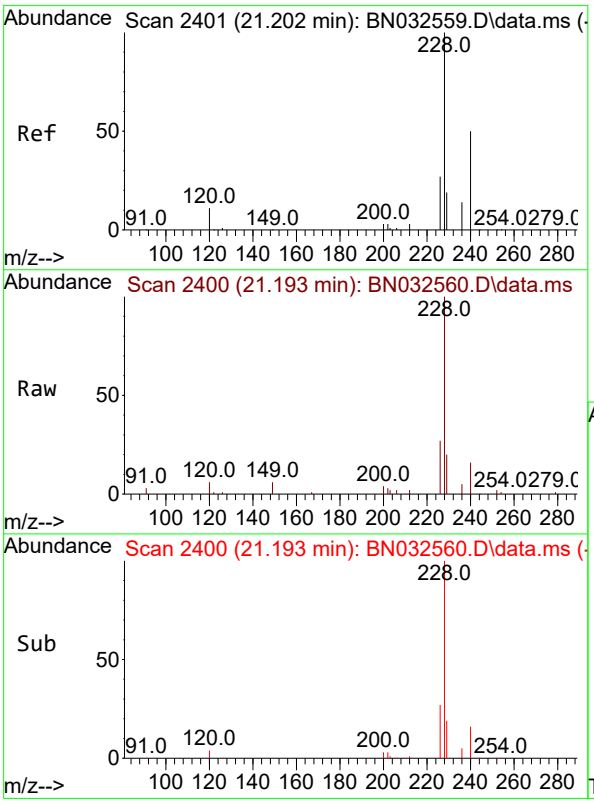
#31
Terphenyl-d14
Concen: 0.797 ng
RT: 19.644 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 29364

Ion	Ratio	Lower	Upper
244	100		
212	8.5	7.2	10.8
122	14.8	12.1	18.1

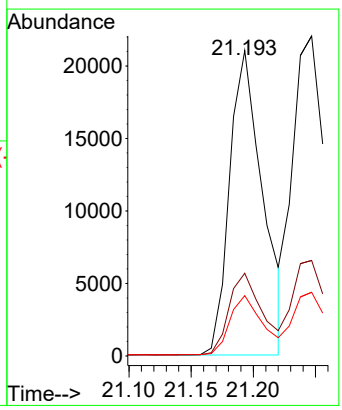


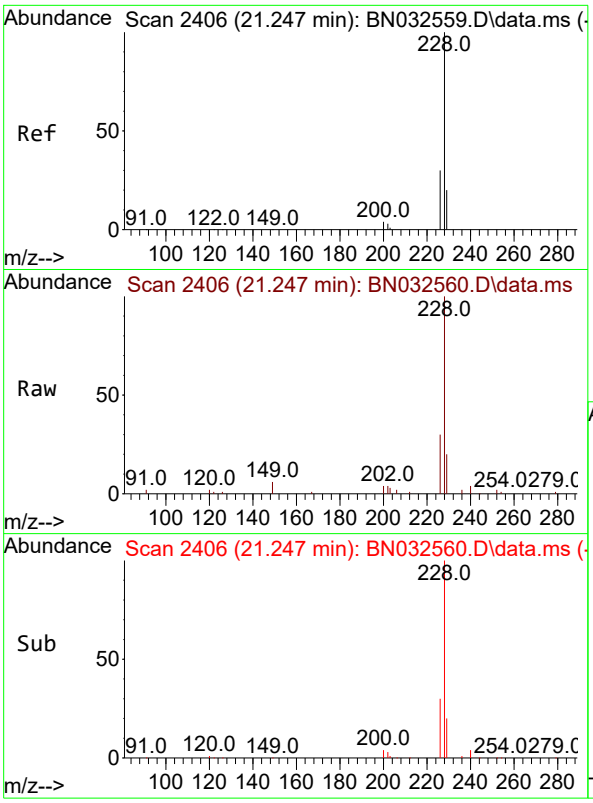


#32
Benzo(a)anthracene
Concen: 0.778 ng
RT: 21.193 min Scan# 2400
Delta R.T. -0.009 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:228 Resp: 38828

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.8	16.0	24.0



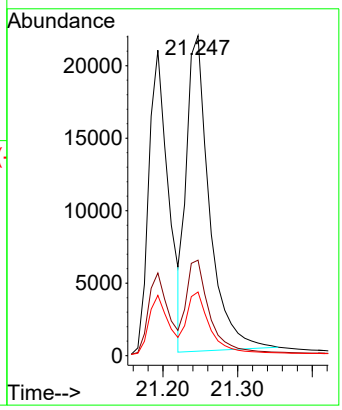


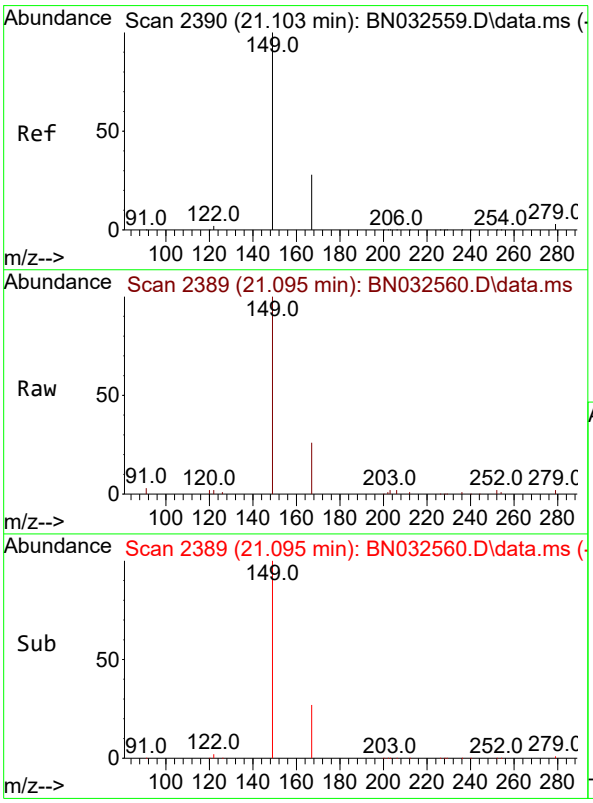
#33
Chrysene
Concen: 0.868 ng
RT: 21.247 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 46644

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.1	36.1
229	19.9	16.1	24.1

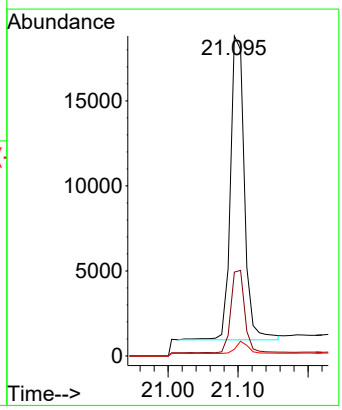


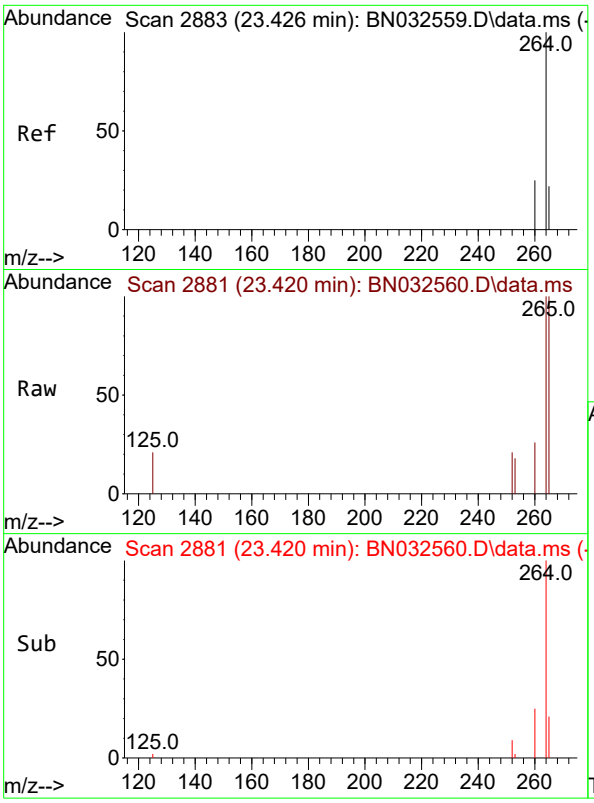


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.730 ng
RT: 21.095 min Scan# 2389
Delta R.T. -0.009 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:149 Resp: 24781

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.6	32.4
279	3.6	3.0	4.6



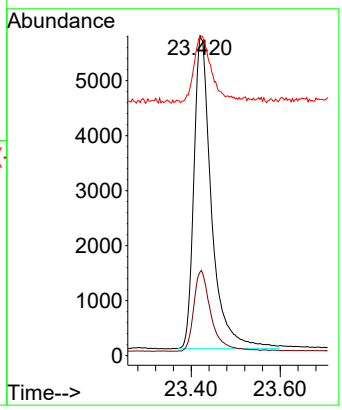


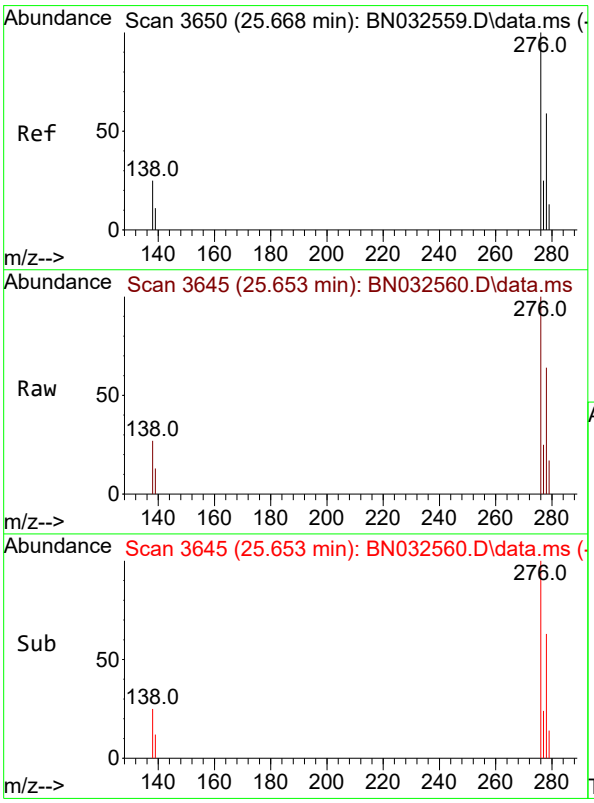
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 15644

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.0	31.6
265	100.1	76.6	115.0

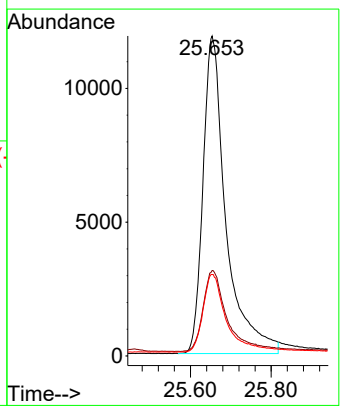


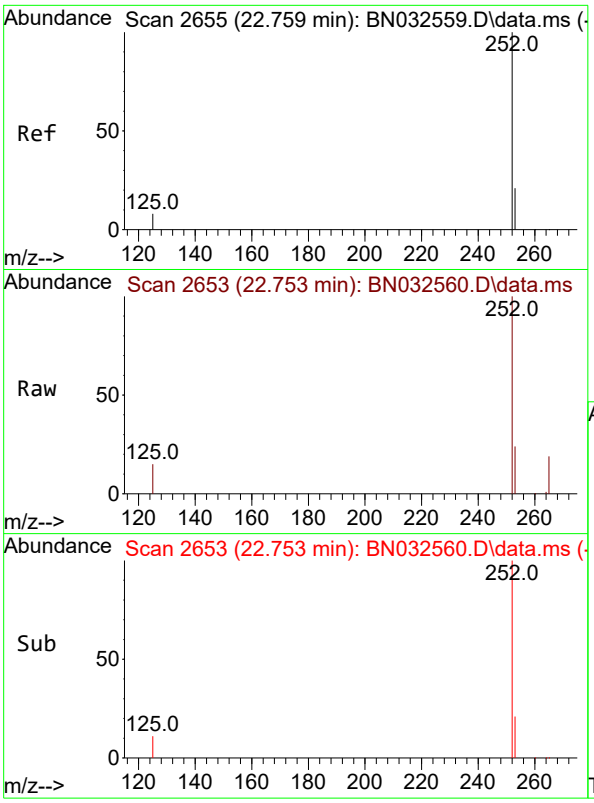


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.796 ng
RT: 25.653 min Scan# 3645
Delta R.T. -0.015 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:276 Resp: 46951

Ion	Ratio	Lower	Upper
276	100		
138	26.6	21.4	32.0
277	25.1	19.9	29.9



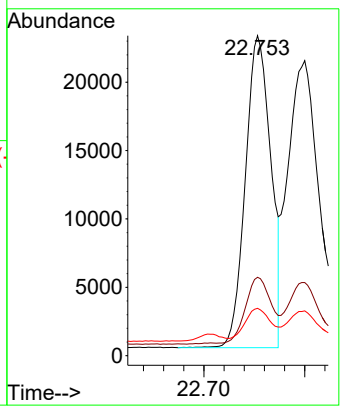


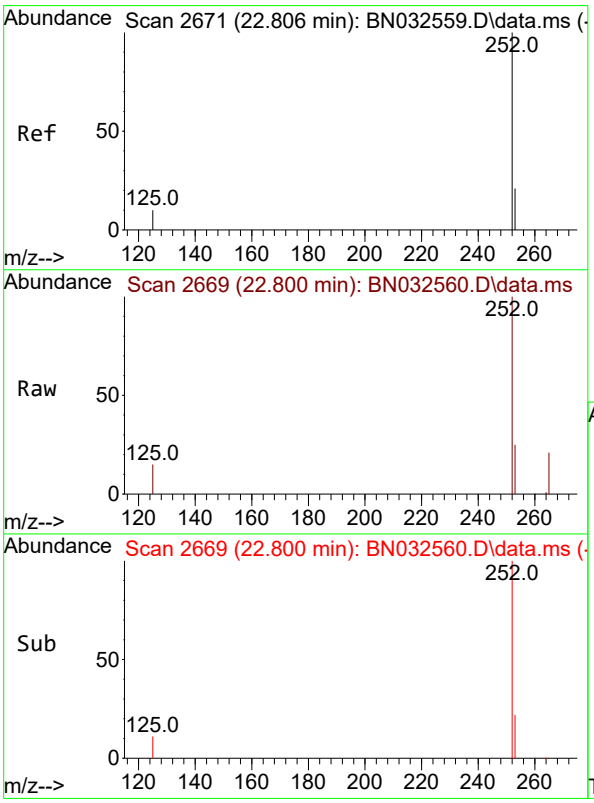
#37
Benzo(b)fluoranthene
Concen: 0.766 ng
RT: 22.753 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 39964

Ion	Ratio	Lower	Upper
252	100		
253	24.5	22.2	33.4
125	14.8	15.4	23.0#

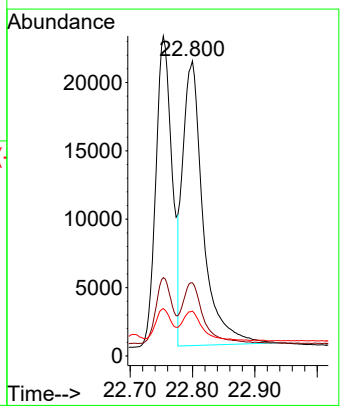


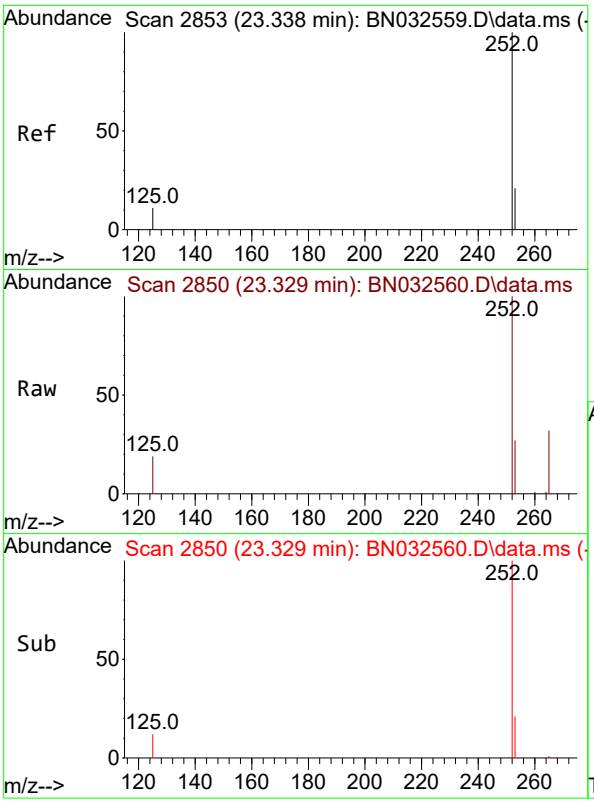


#38
Benzo(k)fluoranthene
Concen: 0.792 ng
RT: 22.800 min Scan# 2669
Delta R.T. -0.006 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:252 Resp: 47592

Ion	Ratio	Lower	Upper
252	100		
253	24.8	21.9	32.9
125	15.2	15.3	22.9#



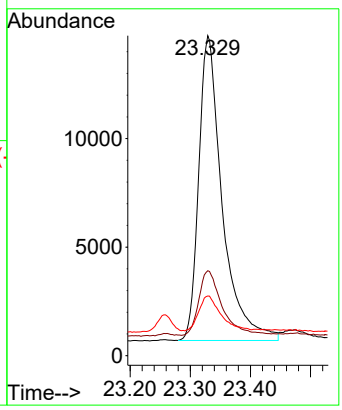


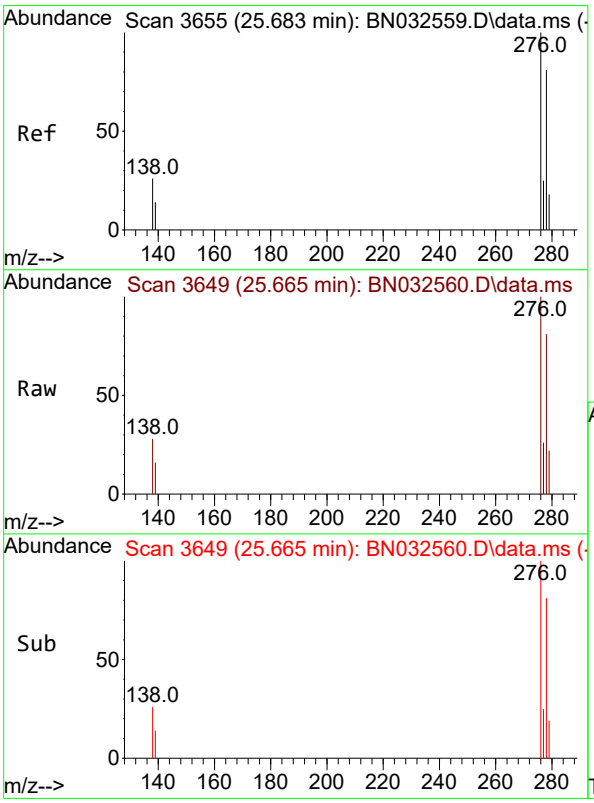
#39
Benzo(a)pyrene
Concen: 0.771 ng
RT: 23.329 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 38062

Ion	Ratio	Lower	Upper
252	100		
253	26.5	25.5	38.3
125	18.7	20.7	31.1#

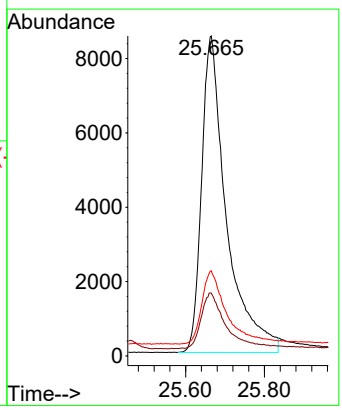


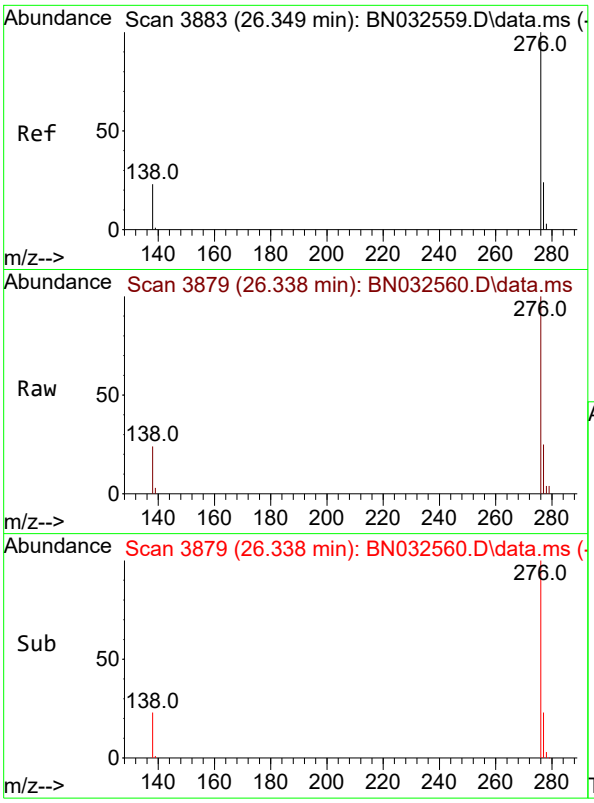


#40
Dibenzo(a,h)anthracene
Concen: 0.797 ng
RT: 25.665 min Scan# 3649
Delta R.T. -0.017 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Tgt Ion:278 Resp: 37238

Ion	Ratio	Lower	Upper
278	100		
139	19.6	17.8	26.6
279	26.6	24.4	36.6





#41
Benzo(g,h,i)perylene
Concen: 0.792 ng
RT: 26.338 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN032560.D
Acq: 08 Jul 2024 21:03

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 40537

Ion	Ratio	Lower	Upper
276	100		
277	24.9	21.5	32.3
138	24.4	21.4	32.0