

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121525\
 Data File : BN038409.D
 Acq On : 15 Dec 2025 17:44
 Operator : RC/JU
 Sample : Q3839-12
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 C0AS1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 12/16/2025
 Supervised By :Jagrut Upadhyay 12/16/2025

Quant Time: Dec 15 23:55:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 10 13:56:50 2025
 Response via : Initial Calibration

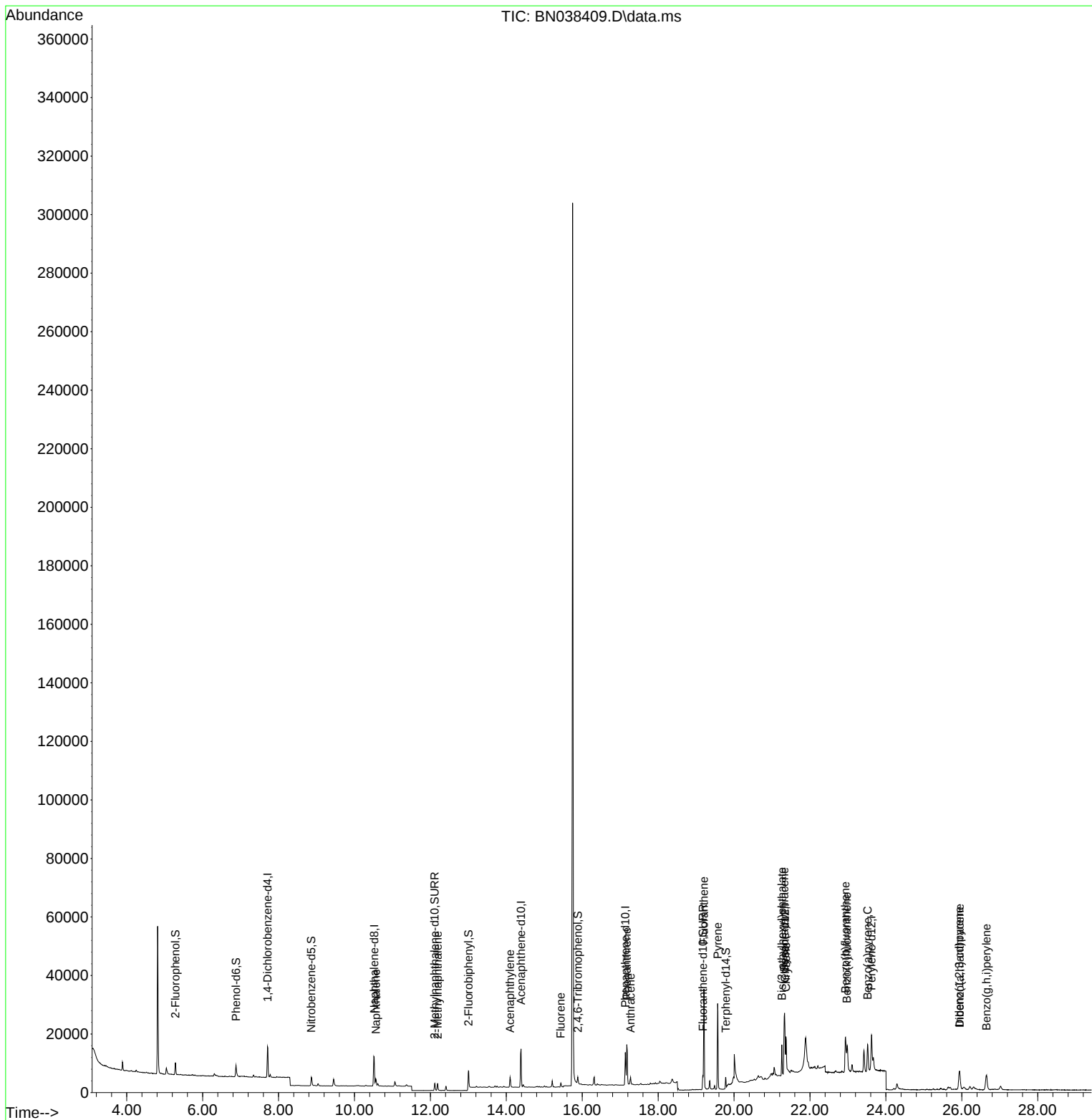
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.709	152	5342	0.400	ng	-0.01
7) Naphthalene-d8	10.519	136	14869	0.400	ng	-0.01
13) Acenaphthene-d10	14.387	164	7905	0.400	ng	-0.01
19) Phenanthrene-d10	17.136	188	14440	0.400	ng	#-0.01
29) Chrysene-d12	21.339	240	13381	0.400	ng	# 0.00
35) Perylene-d12	23.621	264	14860	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	3346	0.252	ng	0.00
5) Phenol-d6	6.879	99	3808	0.241	ng	0.00
8) Nitrobenzene-d5	8.864	82	2699	0.215	ng	-0.01
11) 2-Methylnaphthalene-d10	12.115	152	3560	0.170	ng	-0.01
14) 2,4,6-Tribromophenol	15.882	330	1090	0.311	ng	-0.01
15) 2-Fluorobiphenyl	13.003	172	7959	0.209	ng	0.00
27) Fluoranthene-d10	19.178	212	5325	0.149	ng	0.00
31) Terphenyl-d14	19.782	244	3698	0.124	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.562	128	3158	0.072	ng	# 92
12) 2-Methylnaphthalene	12.192	142	1872	0.067	ng	97
16) Acenaphthylene	14.098	152	4009	0.103	ng	98
18) Fluorene	15.435	166	893	0.026	ng	99
25) Phenanthrene	17.173	178	15907	0.316	ng	99
26) Anthracene	17.272	178	3097	0.071	ng	96
28) Fluoranthene	19.206	202	30314	0.567	ng	99
30) Pyrene	19.568	202	25794	0.392	ng	100
32) Benzo(a)anthracene	21.321	228	13114m	0.254	ng	
33) Chrysene	21.366	228	12498	0.220	ng	96
34) Bis(2-ethylhexyl)phtha...	21.259	149	8812	0.311	ng	98
36) Indeno(1,2,3-cd)pyrene	25.934	276	10875	0.138	ng	# 93
37) Benzo(b)fluoranthene	22.934	252	19677	0.288	ng	# 89
38) Benzo(k)fluoranthene	22.975	252	7555m	0.111	ng	
39) Benzo(a)pyrene	23.519	252	13560	0.243	ng	95
40) Dibenzo(a,h)anthracene	25.945	278	2286	0.038	ng	# 48
41) Benzo(g,h,i)perylene	26.650	276	11066	0.163	ng	97

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

Manual Integrations APPROVED

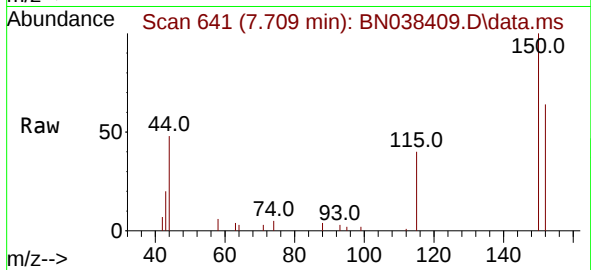
Quant Time: Dec 15 23:55:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.709 min Scan# 643
Delta R.T. -0.015 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

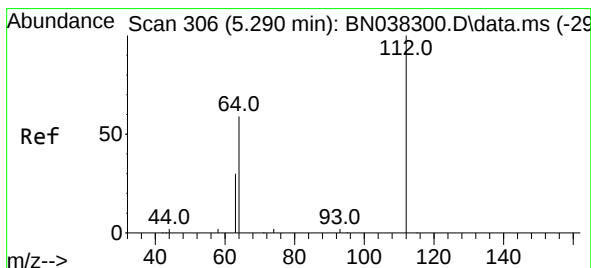
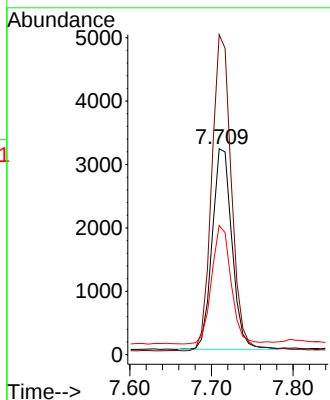
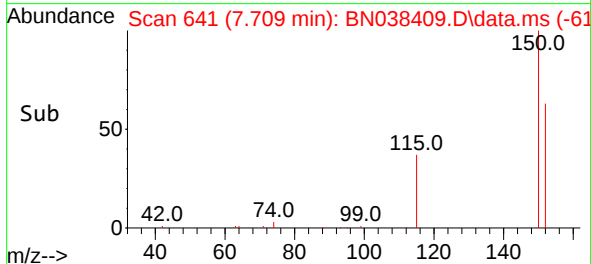
Instrument :
BNA_N
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C0AS1



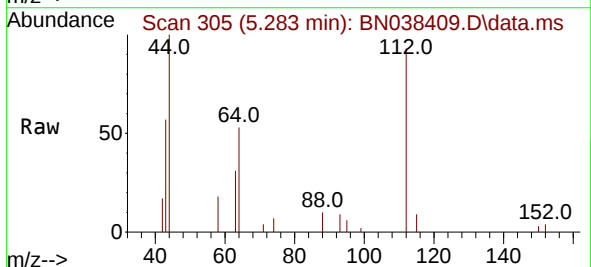
Tgt Ion:152 Resp: 5342
Ion Ratio Lower Upper
152 100
150 155.4 122.4 183.6
115 62.7 47.3 70.9

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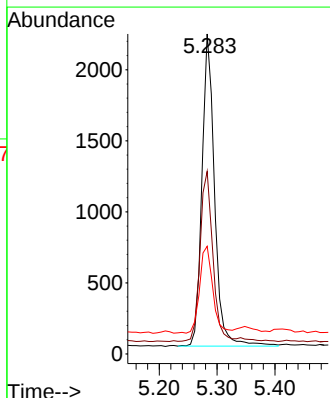
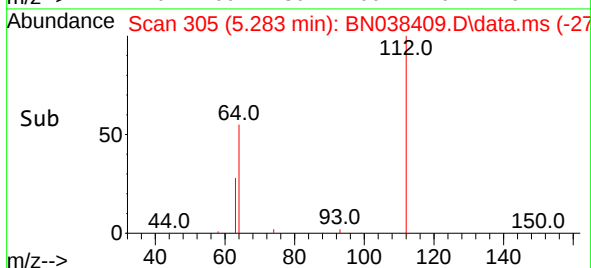
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025

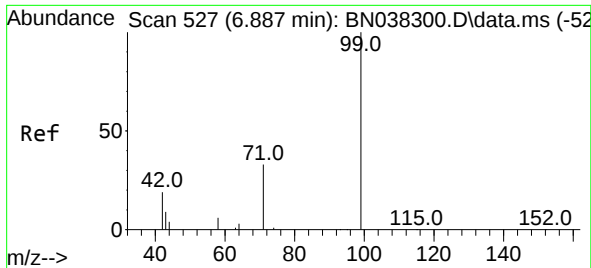


#4
2-Fluorophenol
Concen: 0.252 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.008 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44



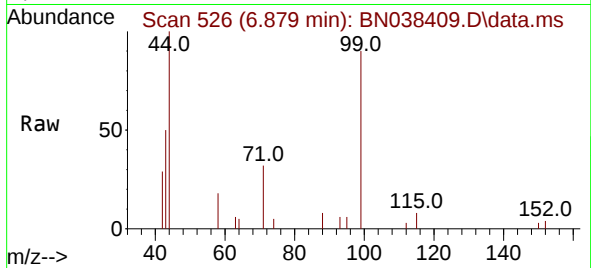
Tgt Ion:112 Resp: 3346
Ion Ratio Lower Upper
112 100
64 55.1 44.4 66.6
63 28.8 23.4 35.0





#5
Phenol-d6
Concen: 0.241 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.008 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

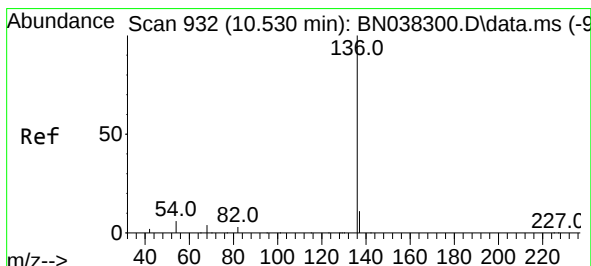
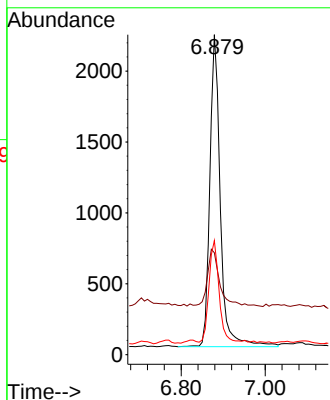
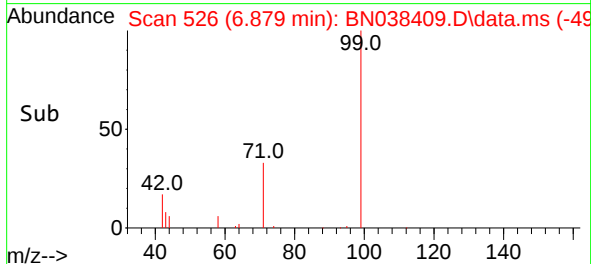
Instrument :
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ClientSampleId :
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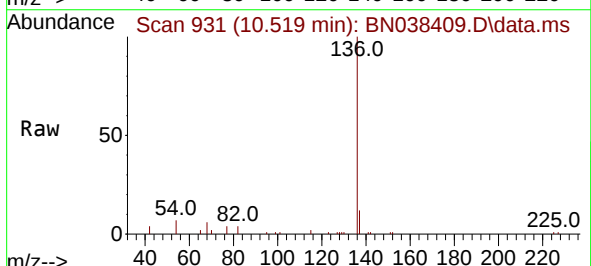
Tgt Ion: 99 Resp: 3808
Ion Ratio Lower Upper
99 100
42 21.7 16.5 24.7
71 31.6 24.9 37.3

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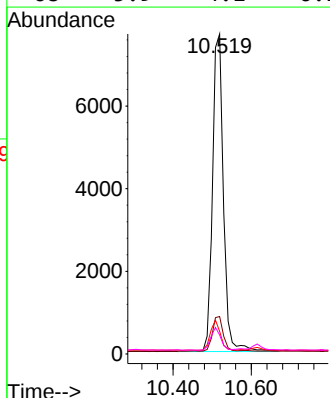
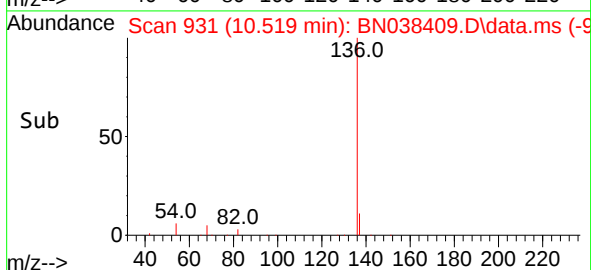
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025

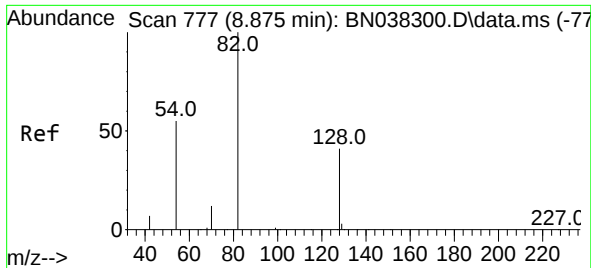


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 931
Delta R.T. -0.011 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44



Tgt Ion:136 Resp: 14869
Ion Ratio Lower Upper
136 100
137 11.7 9.1 13.7
54 7.1 5.2 7.8
68 5.9 4.1 6.1





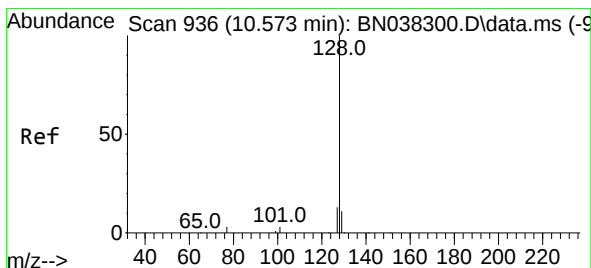
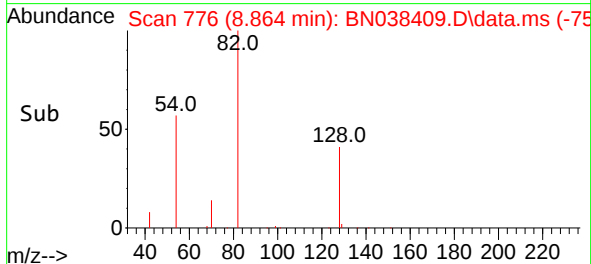
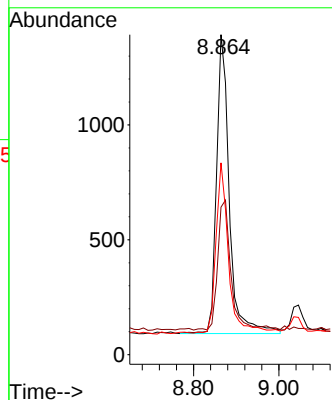
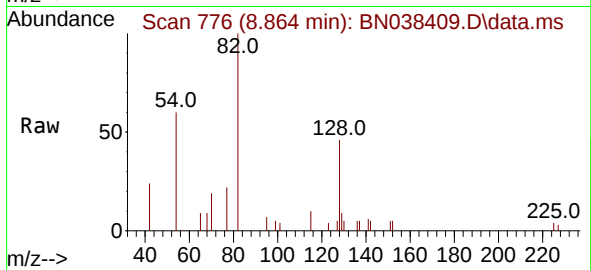
#8
Nitrobenzene-d5
Concen: 0.215 ng
RT: 8.864 min Scan# 777
Delta R.T. -0.011 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

Instrument :
BNA_N
ClientSampleId :
C0AS1

Tgt Ion: 82 Resp: 2699
Ion Ratio Lower Upper
82 100
128 46.1 34.0 51.0
54 59.9 44.4 66.6

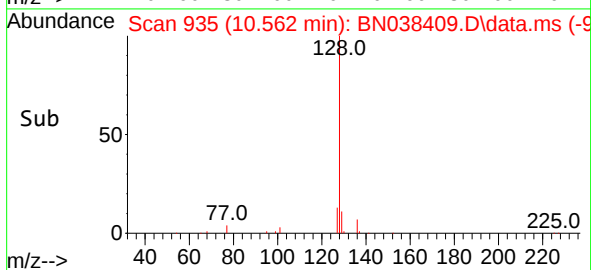
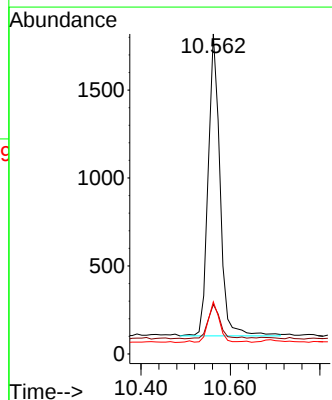
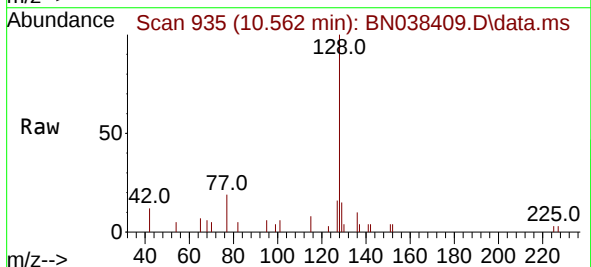
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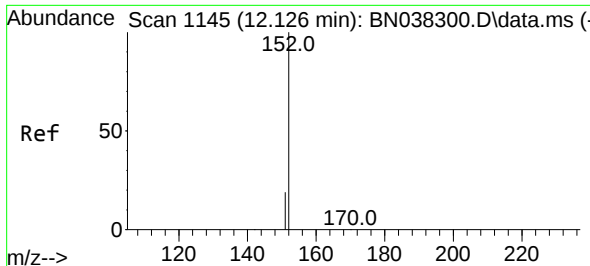
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#9
Naphthalene
Concen: 0.072 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

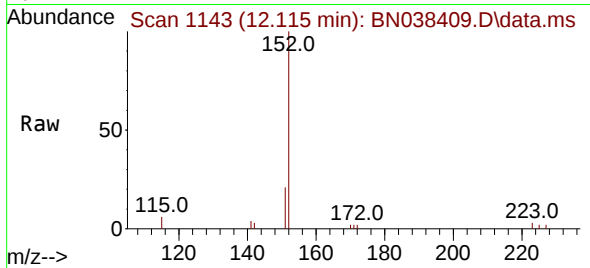
Tgt Ion:128 Resp: 3158
Ion Ratio Lower Upper
128 100
129 15.4 9.1 13.7#
127 16.3 10.9 16.3





#11
2-Methylnaphthalene-d10
Concen: 0.170 ng
RT: 12.115 min Scan# 1143
Delta R.T. -0.011 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

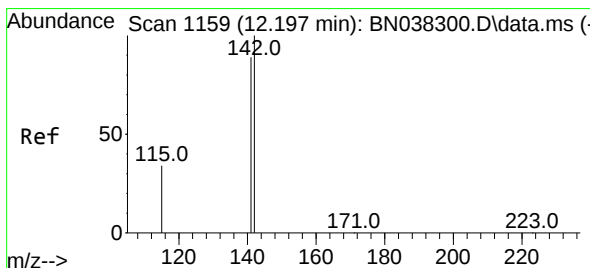
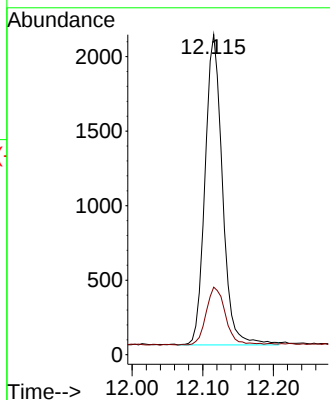
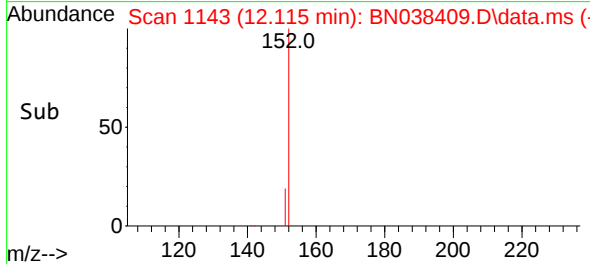
Instrument :
BNA_N
ClientSampleId :
C0AS1



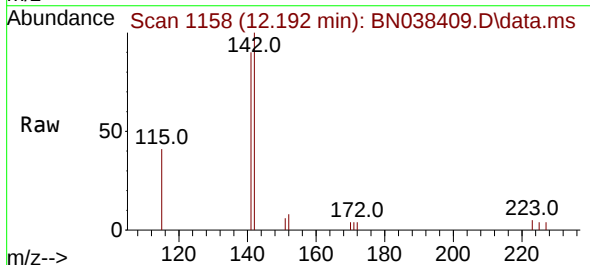
Tgt Ion:152 Resp: 3560
Ion Ratio Lower Upper
152 100
151 20.6 17.0 25.6

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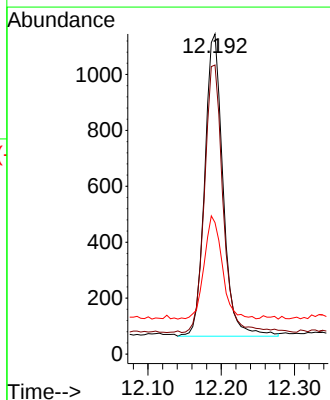
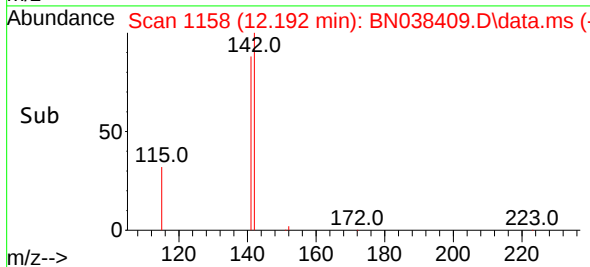
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025

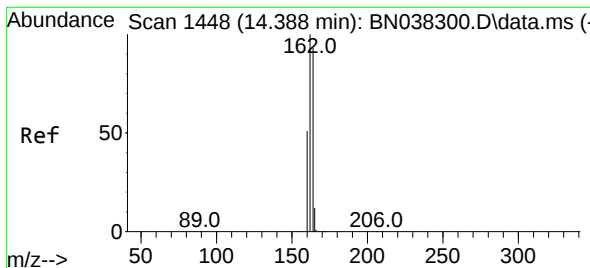


#12
2-Methylnaphthalene
Concen: 0.067 ng
RT: 12.192 min Scan# 1158
Delta R.T. -0.011 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44



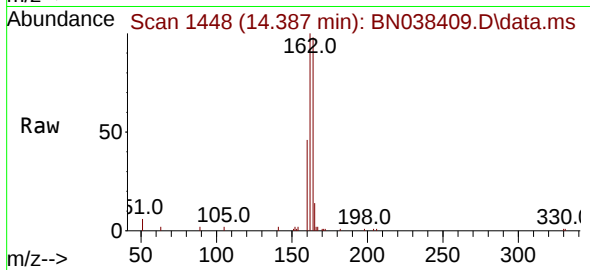
Tgt Ion:142 Resp: 1872
Ion Ratio Lower Upper
142 100
141 90.3 71.4 107.2
115 41.0 28.4 42.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.387 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

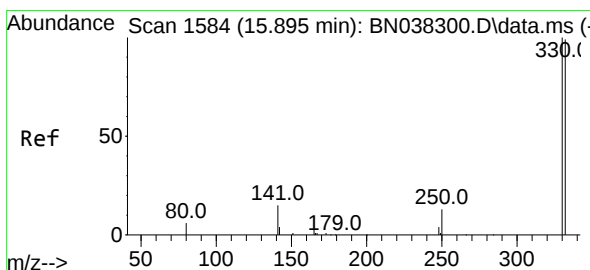
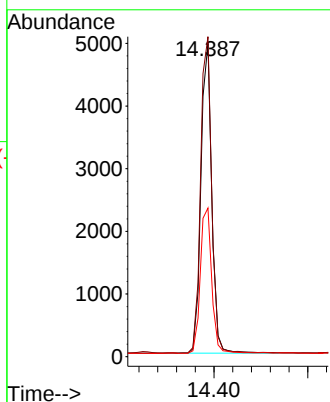
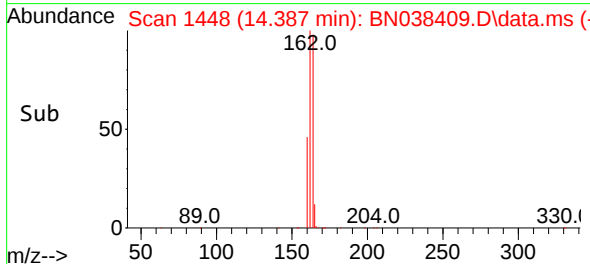
Instrument :
BNA_N
ClientSampleId :
C0AS1



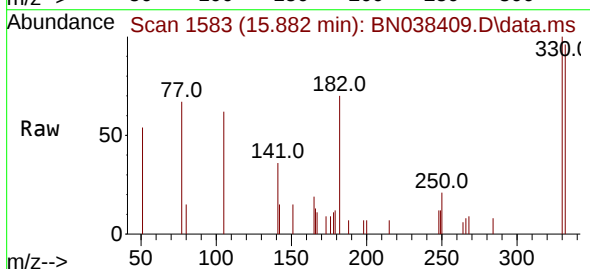
Tgt Ion:164 Resp: 790
Ion Ratio Lower Upper
164 100
162 102.2 86.2 129.4
160 47.5 44.6 67.0

Manual Integrations
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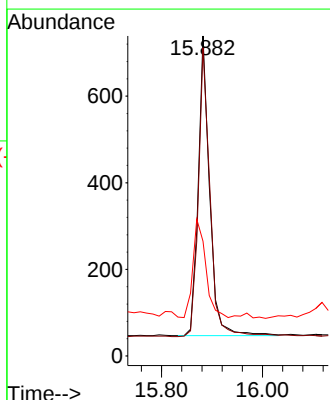
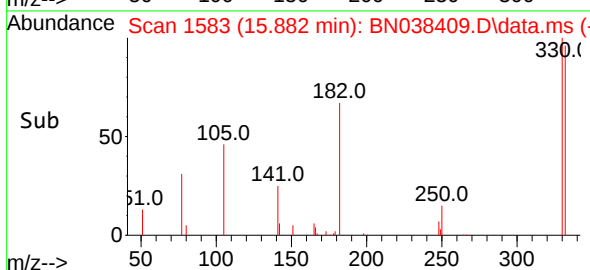
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.013 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44



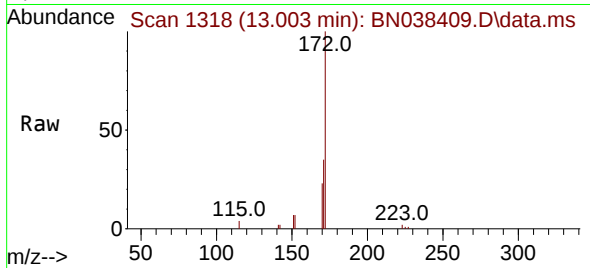
Tgt Ion:330 Resp: 1090
Ion Ratio Lower Upper
330 100
332 98.3 75.8 113.6
141 36.9 31.8 47.8





#15
2-Fluorobiphenyl
Concen: 0.209 ng
RT: 13.003 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

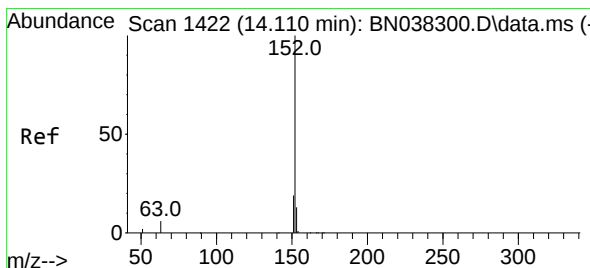
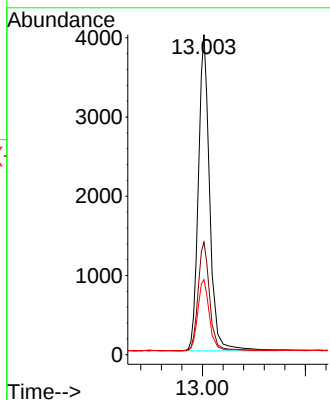
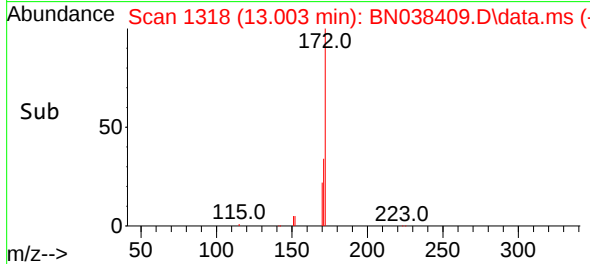
Instrument :
BNA_N
ClientSampleId :
C0AS1



Tgt Ion:172 Resp: 795
Ion Ratio Lower Upper
172 100
171 35.2 28.6 42.8
170 23.5 19.3 28.9

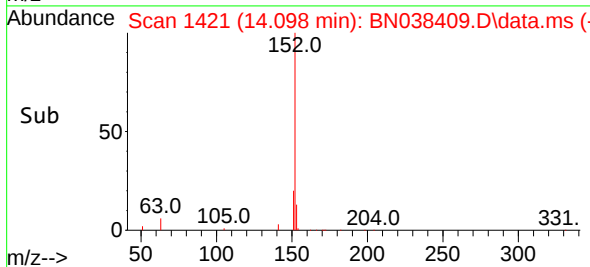
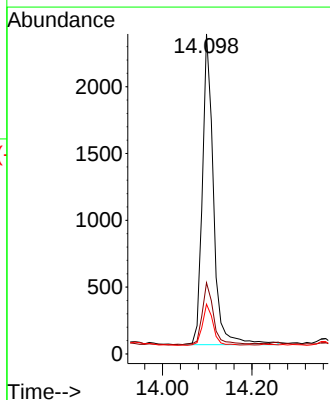
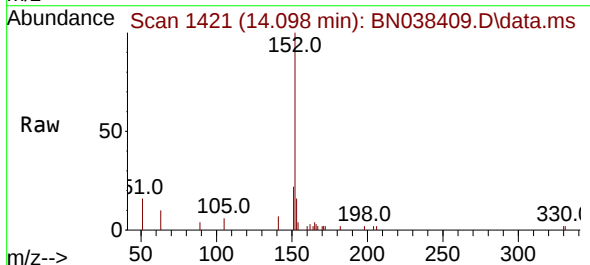
Manual Integrations
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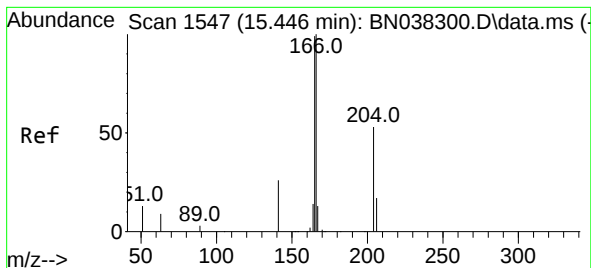
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#16
Acenaphthylene
Concen: 0.103 ng
RT: 14.098 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

Tgt Ion:152 Resp: 4009
Ion Ratio Lower Upper
152 100
151 20.9 15.4 23.2
153 12.7 10.2 15.4





#18

Fluorene

Concen: 0.026 ng

RT: 15.435 min Scan# 1546

Delta R.T. -0.011 min

Lab File: BN038409.D

Acq: 15 Dec 2025 17:44

Instrument :

BNA_N

ClientSampleId :

C0AS1

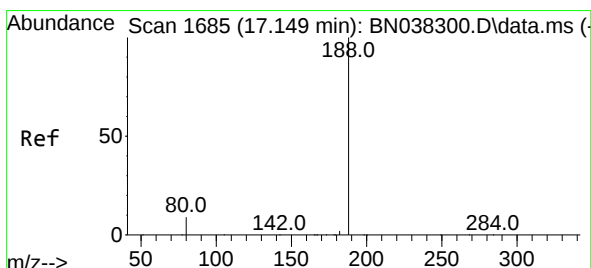
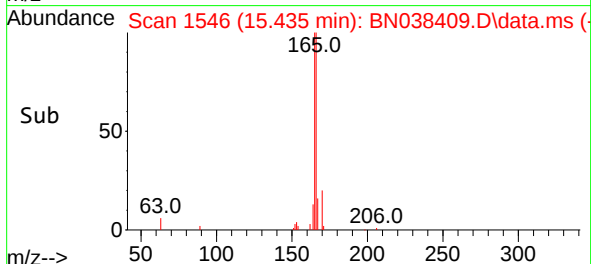
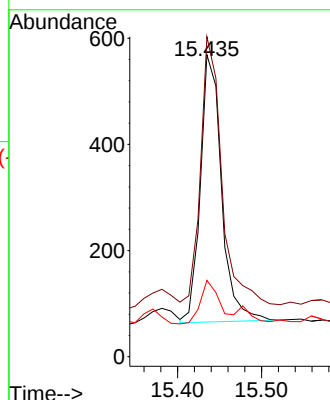
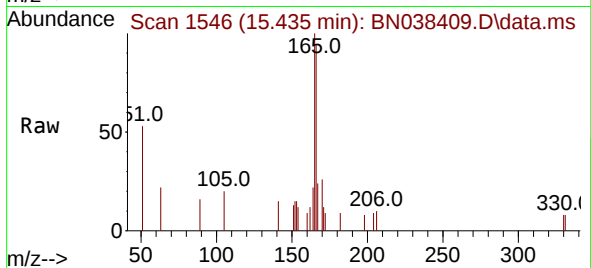
Tgt Ion:	166	Resp:	89
Ion Ratio	Lower	Upper	
166	100		
165	101.2	80.2	120.4
167	14.8	10.6	16.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 12/16/2025



#19

Phenanthrene-d10

Concen: 0.400 ng

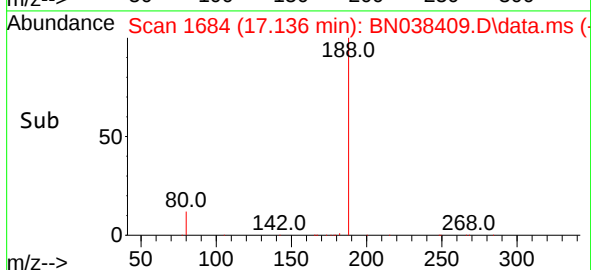
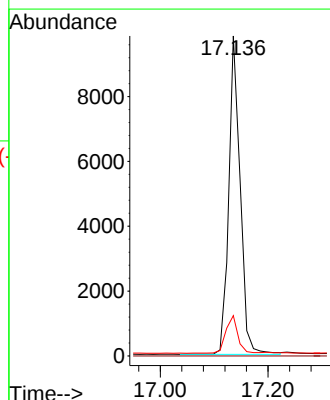
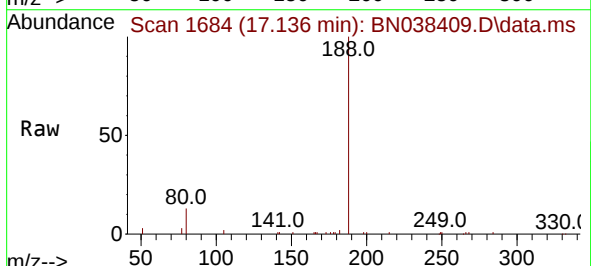
RT: 17.136 min Scan# 1684

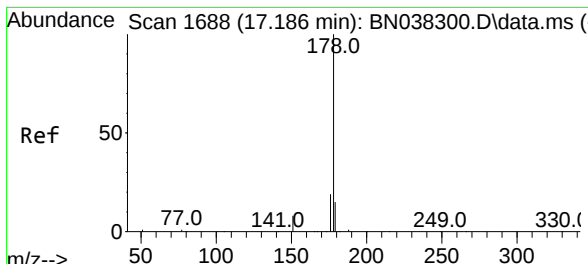
Delta R.T. -0.013 min

Lab File: BN038409.D

Acq: 15 Dec 2025 17:44

Tgt Ion:	188	Resp:	14440
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.6	7.4	11.0





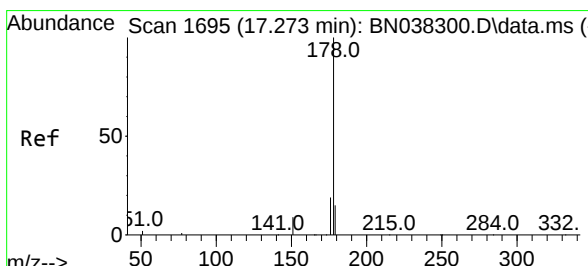
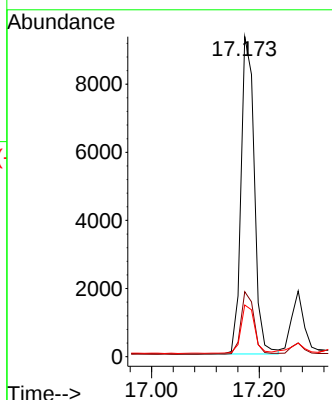
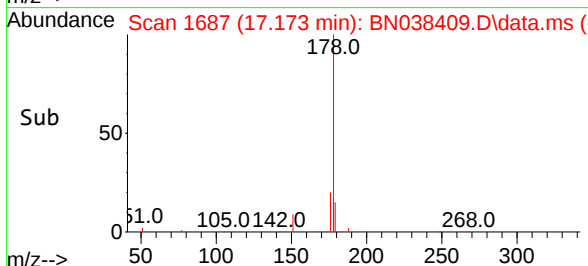
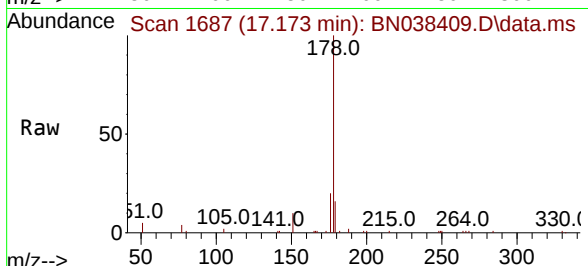
#25
 Phenanthrene
 Concen: 0.316 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.013 min
 Lab File: BN038409.D
 Acq: 15 Dec 2025 17:44

Instrument :
 BNA_N
 ClientSampleId :
 C0AS1

Tgt Ion:	178	Resp:	1590
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.5	23.3
179	15.6	12.2	18.2

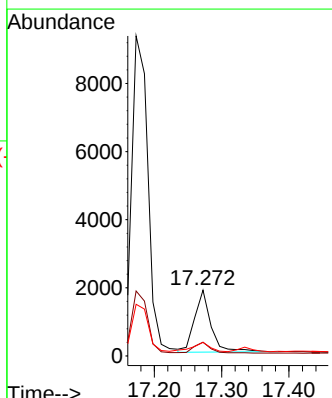
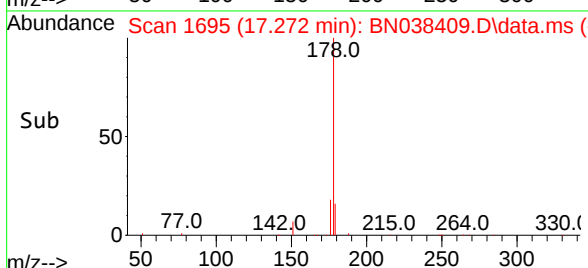
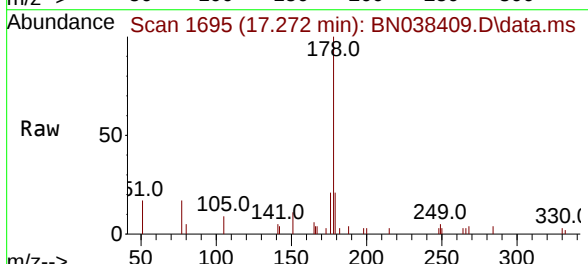
Manual Integrations
 APPROVED

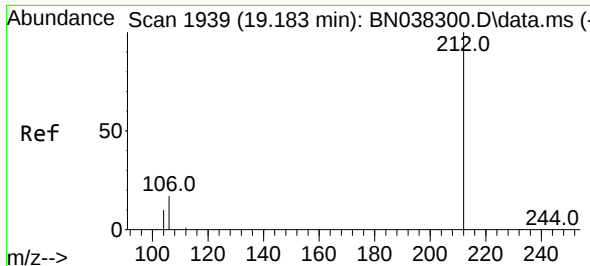
Reviewed By :Rahul Chavli 12/16/2025
 Supervised By :Jagrut Upadhyay 12/16/2025



#26
 Anthracene
 Concen: 0.071 ng
 RT: 17.272 min Scan# 1695
 Delta R.T. -0.013 min
 Lab File: BN038409.D
 Acq: 15 Dec 2025 17:44

Tgt Ion:	178	Resp:	3097
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.1	22.7
179	17.5	12.0	18.0





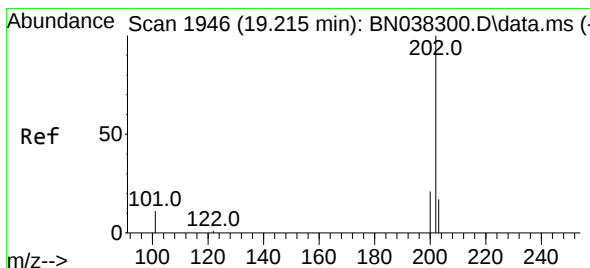
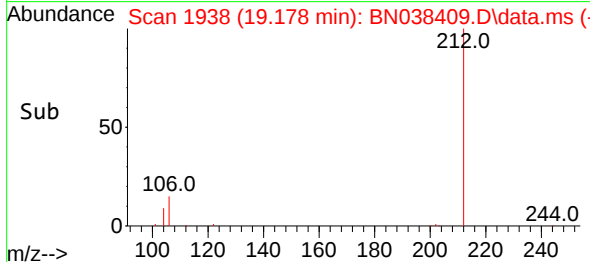
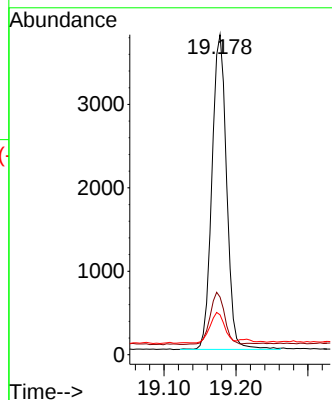
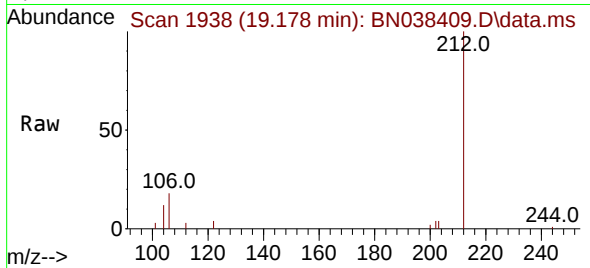
#27
Fluoranthene-d10
Concen: 0.149 ng
RT: 19.178 min Scan# 1938
Delta R.T. -0.010 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

Instrument :
BNA_N
ClientSampleId :
C0AS1

Tgt Ion:212 Resp: 5329
Ion Ratio Lower Upper
212 100
106 16.4 13.7 20.5
104 9.6 7.8 11.8

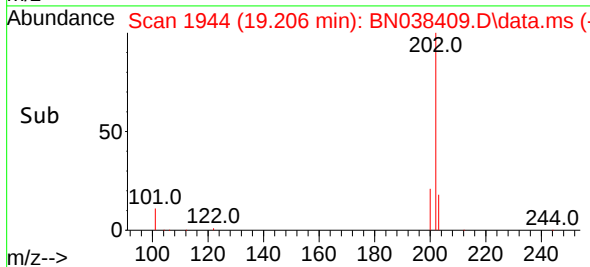
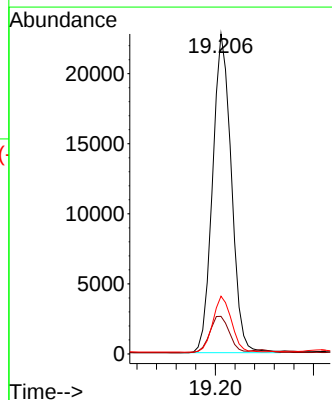
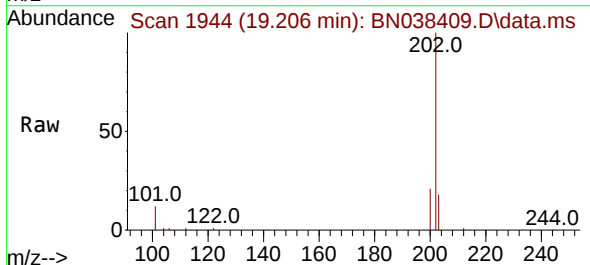
Manual Integrations
APPROVED

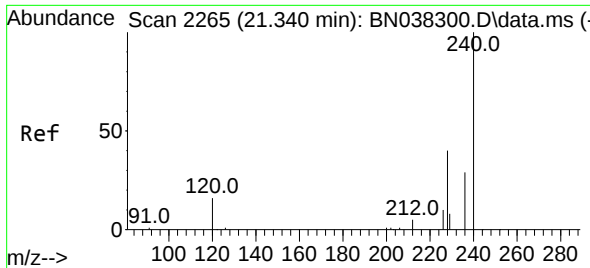
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025



#28
Fluoranthene
Concen: 0.567 ng
RT: 19.206 min Scan# 1944
Delta R.T. -0.014 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

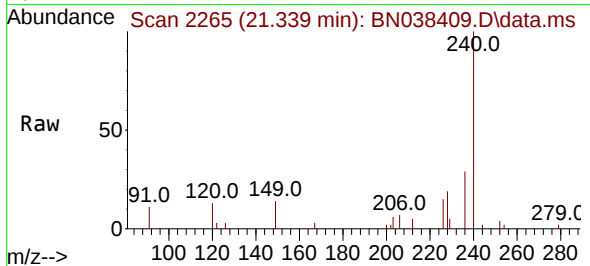
Tgt Ion:202 Resp: 30314
Ion Ratio Lower Upper
202 100
101 12.0 9.6 14.4
203 17.3 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.339 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

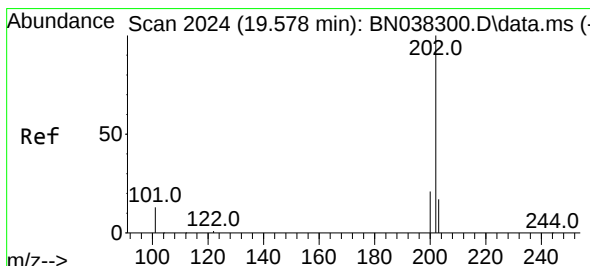
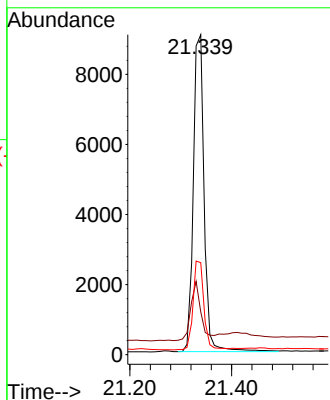
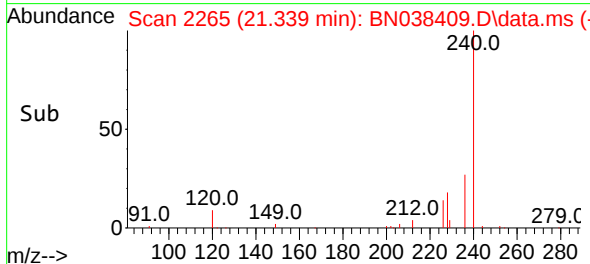
Instrument :
BNA_N
ClientSampleId :
C0AS1



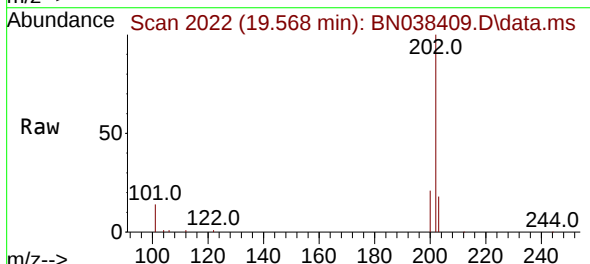
Tgt Ion:240 Resp: 1338
Ion Ratio Lower Upper
240 100
120 13.4 15.4 23.2
236 28.7 23.9 35.9

Manual Integrations
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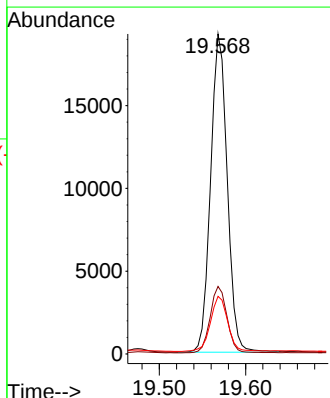
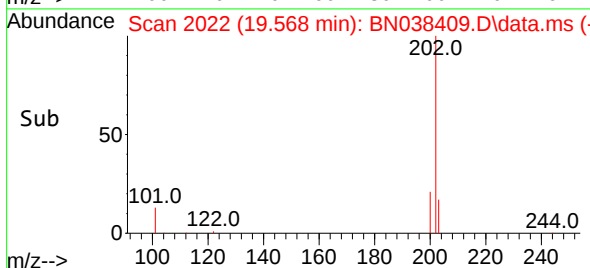
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025

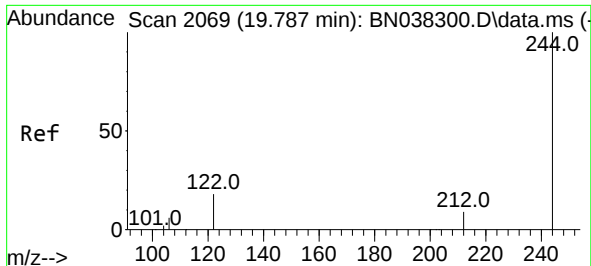


#30
Pyrene
Concen: 0.392 ng
RT: 19.568 min Scan# 2022
Delta R.T. -0.014 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44



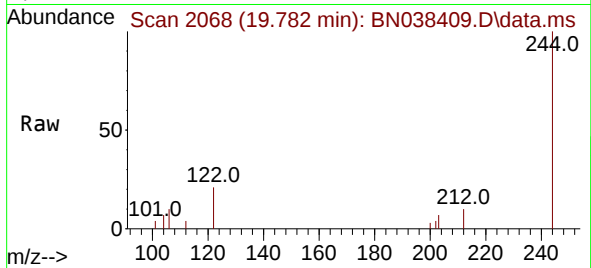
Tgt Ion:202 Resp: 25794
Ion Ratio Lower Upper
202 100
200 21.0 16.9 25.3
203 17.9 14.2 21.2





#31
Terphenyl-d14
Concen: 0.124 ng
RT: 19.782 min Scan# 2068
Delta R.T. -0.010 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

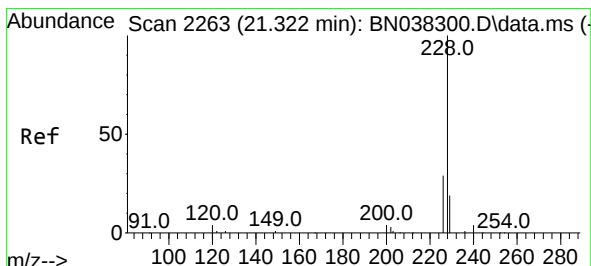
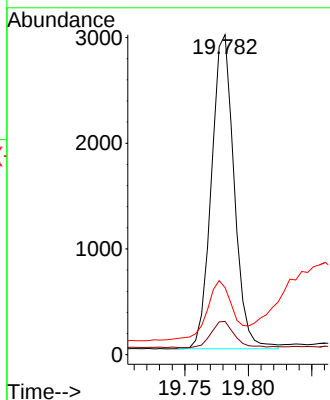
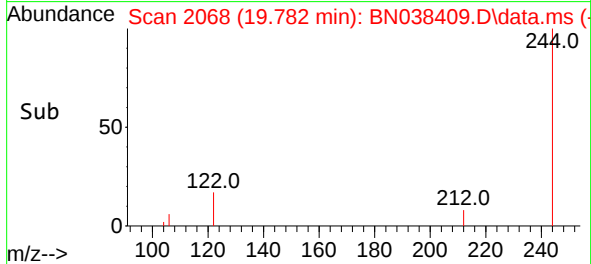
Instrument :
BNA_N
ClientSampleId :
C0AS1



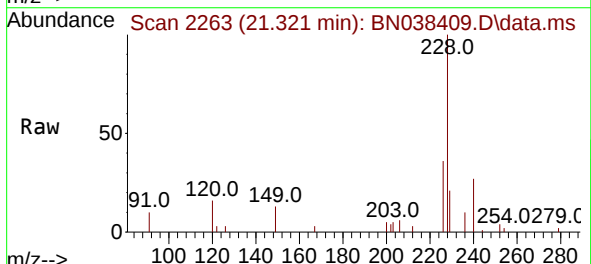
Tgt Ion:244 Resp: 3698
Ion Ratio Lower Upper
244 100
212 10.4 7.9 11.9
122 20.9 15.0 22.6

Manual Integrations
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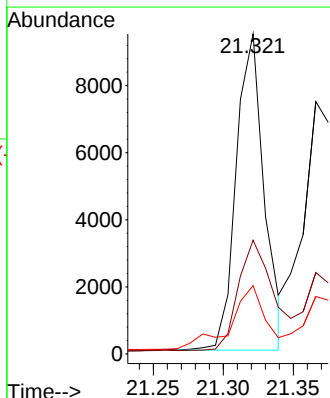
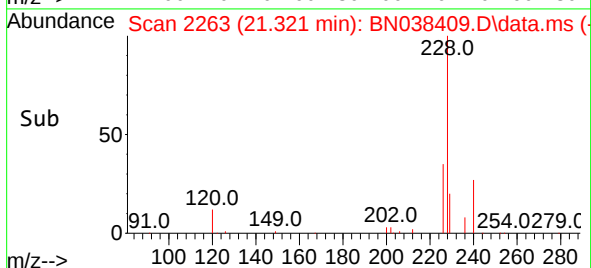
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025

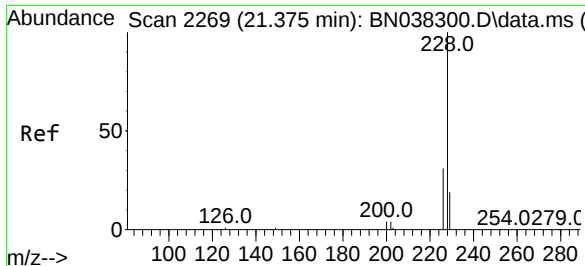


#32
Benzo(a)anthracene
Concen: 0.254 ng m
RT: 21.321 min Scan# 2263
Delta R.T. -0.009 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44



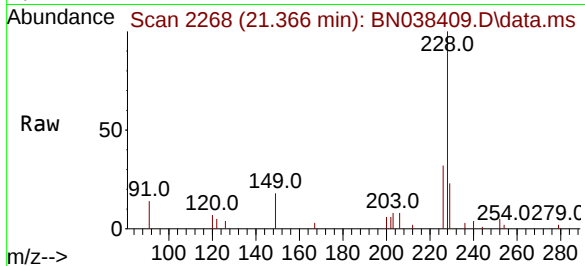
Tgt Ion:228 Resp: 13114
Ion Ratio Lower Upper
228 100
226 35.6 23.3 34.9#
229 21.4 15.7 23.5





#33
Chrysene
Concen: 0.220 ng
RT: 21.366 min Scan# 2136
Delta R.T. -0.009 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

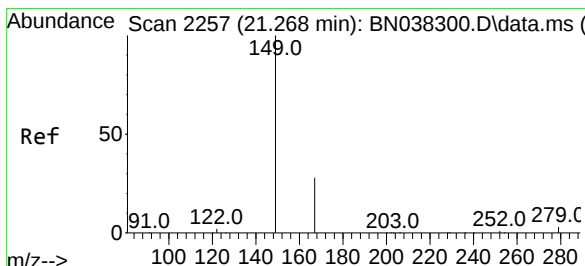
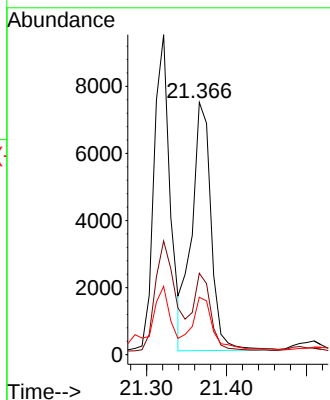
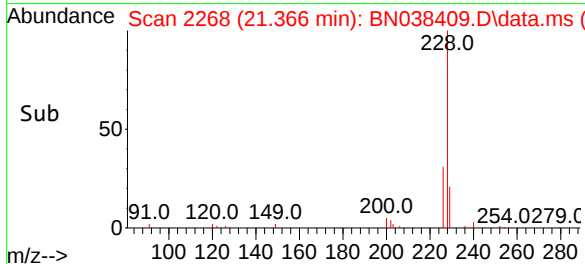
Instrument :
BNA_N
ClientSampleId :
C0AS1



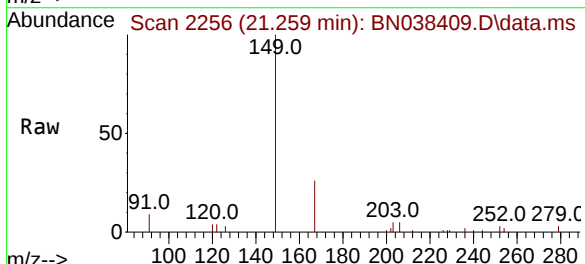
Tgt Ion:228 Resp: 12498
Ion Ratio Lower Upper
228 100
226 32.3 25.0 37.4
229 22.7 15.5 23.3

Manual Integrations
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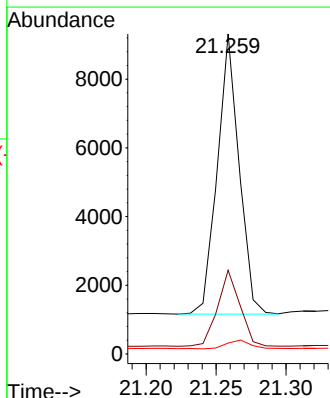
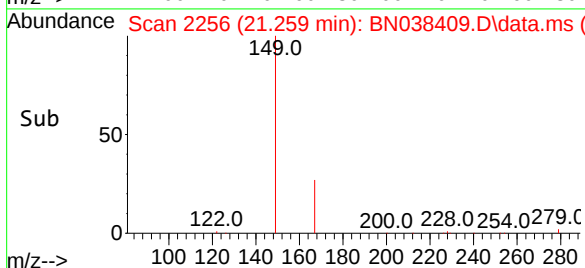
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025

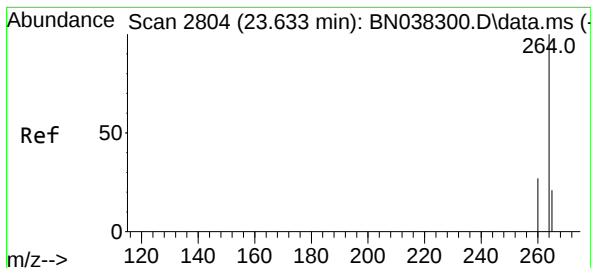


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.311 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.009 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44



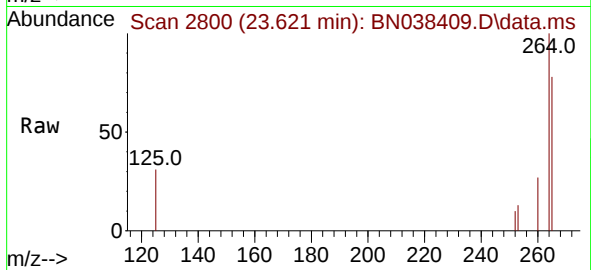
Tgt Ion:149 Resp: 8812
Ion Ratio Lower Upper
149 100
167 27.6 21.4 32.0
279 3.6 2.4 3.6





#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.621 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN038409.D
 Acq: 15 Dec 2025 17:44

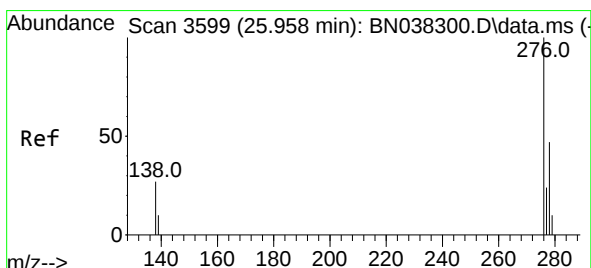
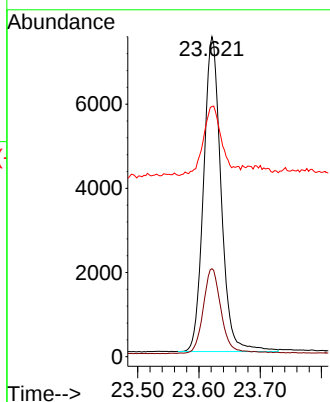
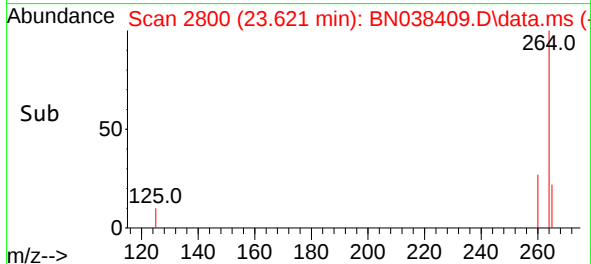
Instrument :
 BNA_N
 ClientSampleId :
 C0AS1



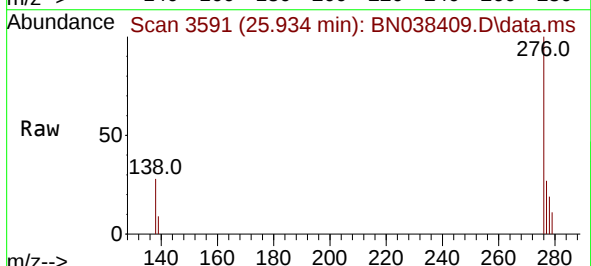
Tgt Ion:264 Resp: 14860
 Ion Ratio Lower Upper
 264 100
 260 27.5 22.2 33.2
 265 78.2 80.2 120.2

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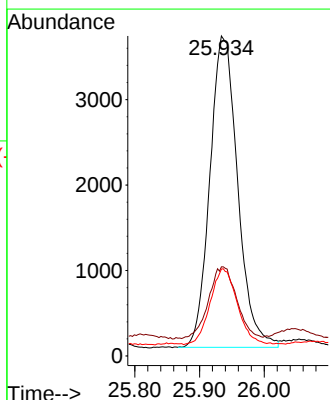
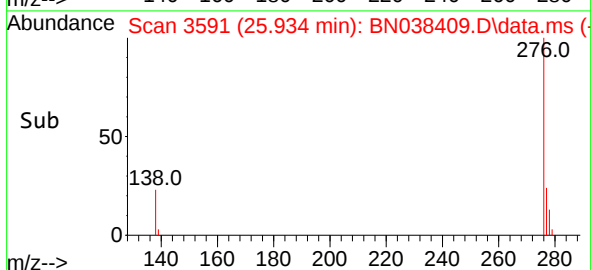
Reviewed By :Rahul Chavli 12/16/2025
 Supervised By :Jagrut Upadhyay 12/16/2025

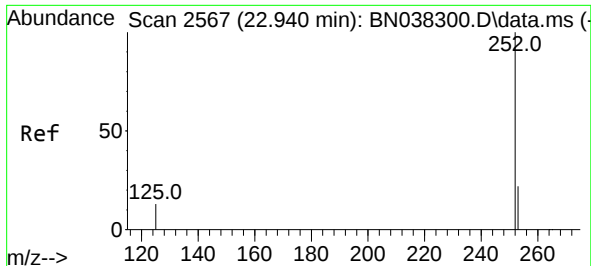


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.138 ng
 RT: 25.934 min Scan# 3591
 Delta R.T. -0.030 min
 Lab File: BN038409.D
 Acq: 15 Dec 2025 17:44



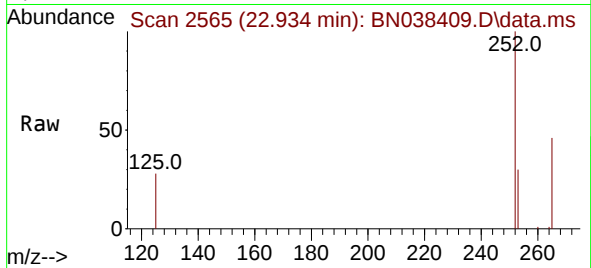
Tgt Ion:276 Resp: 10875
 Ion Ratio Lower Upper
 276 100
 138 23.4 23.6 35.4#
 277 23.7 19.7 29.5





#37
Benzo(b)fluoranthene
Concen: 0.288 ng
RT: 22.934 min Scan# 2567
Delta R.T. -0.012 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

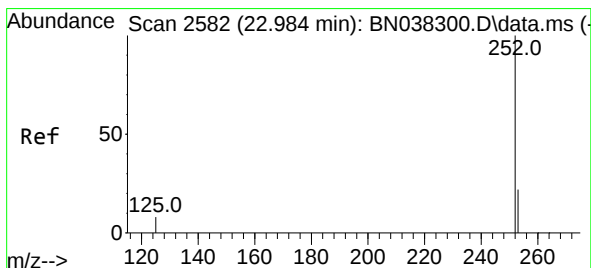
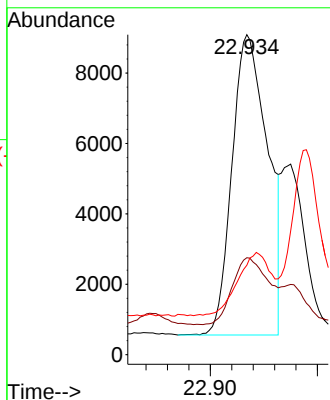
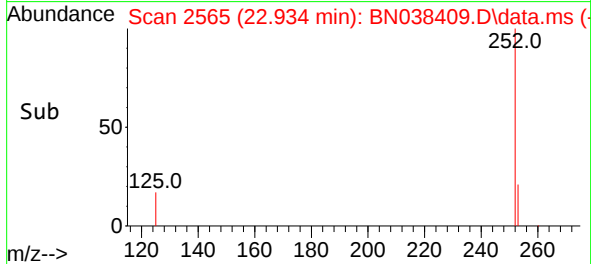
Instrument :
BNA_N
ClientSampleId :
C0AS1



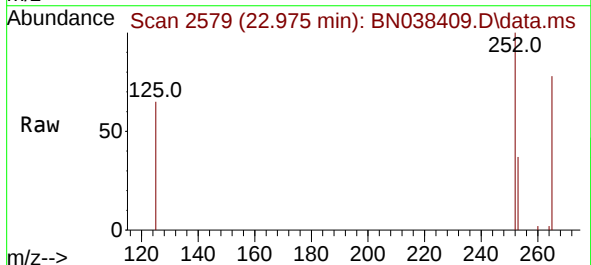
Tgt Ion:252 Resp: 1967
Ion Ratio Lower Upper
252 100
253 30.3 21.1 31.7
125 28.0 16.4 24.6

Manual Integrations
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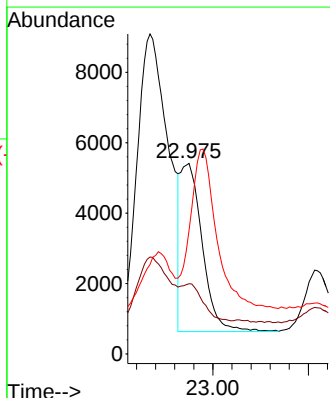
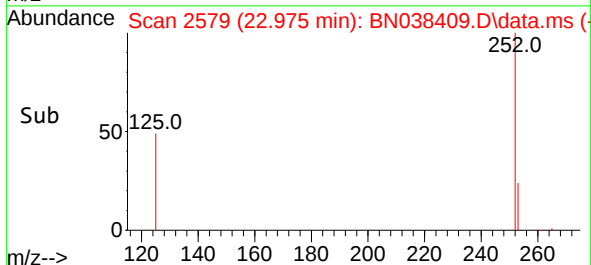
Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025

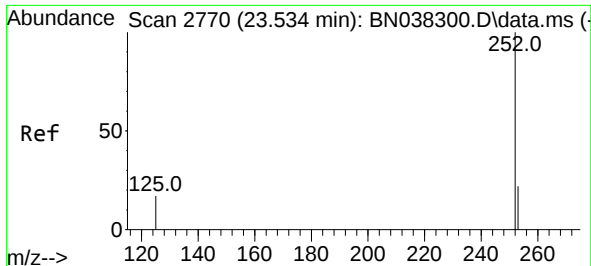


#38
Benzo(k)fluoranthene
Concen: 0.111 ng m
RT: 22.975 min Scan# 2579
Delta R.T. -0.015 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44



Tgt Ion:252 Resp: 7555
Ion Ratio Lower Upper
252 100
253 36.8 21.4 32.0#
125 64.9 16.2 24.2#





#39

Benzo(a)pyrene

Concen: 0.243 ng

RT: 23.519 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN038409.D

Acq: 15 Dec 2025 17:44

Instrument :

BNA_N

ClientSampleId :

C0AS1

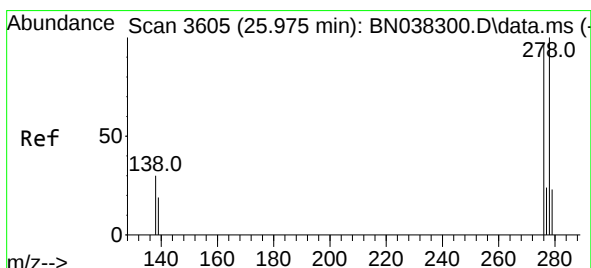
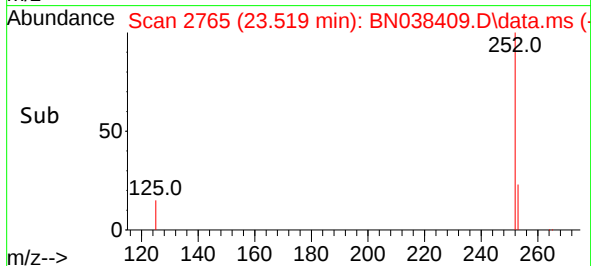
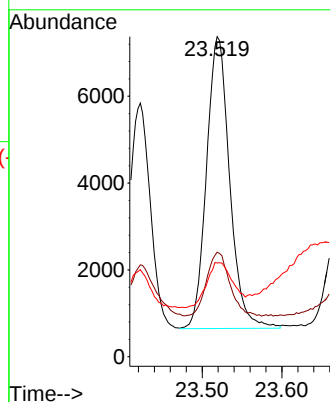
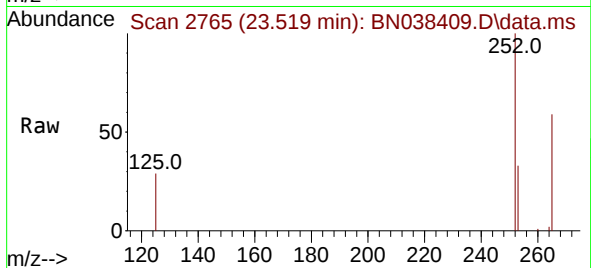
Tgt Ion:252	Resp:	1356
Ion Ratio	Lower	Upper
252	100	
253	32.6	23.3 34.9
125	29.3	22.4 33.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 12/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.038 ng

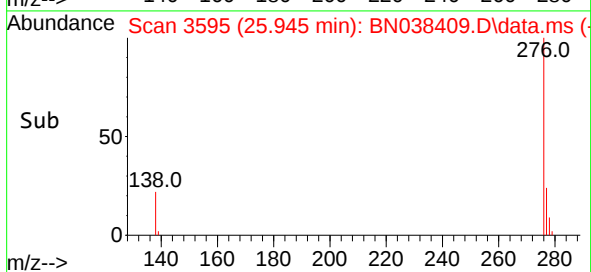
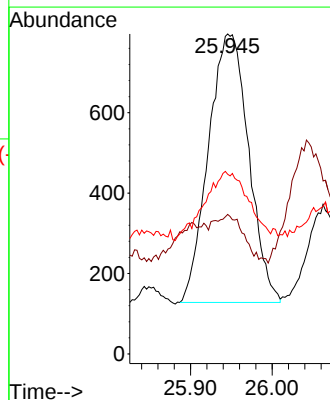
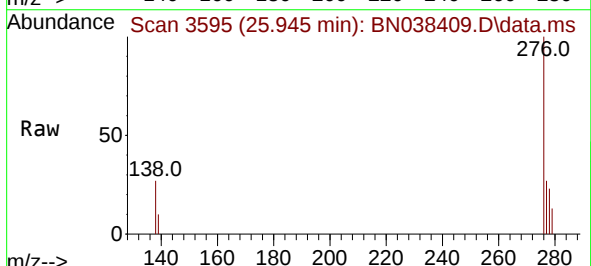
RT: 25.945 min Scan# 3595

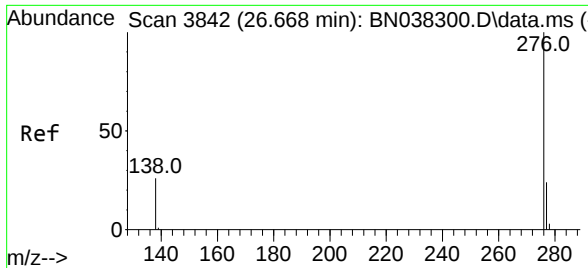
Delta R.T. -0.035 min

Lab File: BN038409.D

Acq: 15 Dec 2025 17:44

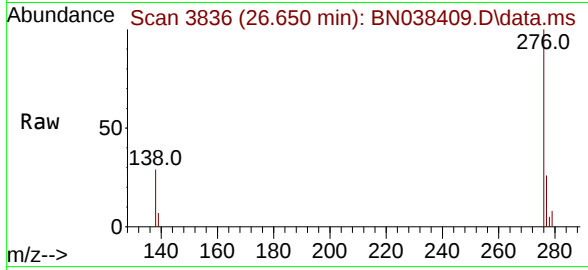
Tgt Ion:278	Resp:	2286
Ion Ratio	Lower	Upper
278	100	
139	43.6	17.8 26.8#
279	56.2	21.3 31.9#





#41
Benzo(g,h,i)perylene
Concen: 0.163 ng
RT: 26.650 min Scan# 3836
Delta R.T. -0.027 min
Lab File: BN038409.D
Acq: 15 Dec 2025 17:44

Instrument :
BNA_N
ClientSampleId :
C0AS1



Tgt Ion:	276	Resp:	1106
Ion	Ratio	Lower	Upper
276	100		
277	26.1	20.0	30.0
138	29.2	21.8	32.6

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 12/16/2025
Supervised By :Jagrut Upadhyay 12/16/2025

