

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
 Data File : BN038387.D
 Acq On : 13 Dec 2025 15:16
 Operator : RC/JU
 Sample : Q3839-09
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Manual Integrations
 APPROVED

Reviewed By :Rahul
 Chavli

12/15/2025
 Supervised By :Jagrut
 Upadhyay

Quant Time: Dec 14 22:24:13 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	7.717	152	6296	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	18000	0.400	ng	#-0.01
13) Acenaphthene-d10	14.388	164	11495	0.400	ng	-0.01
19) Phenanthrene-d10	17.136	188	18313	0.400	ng	#-0.01
29) Chrysene-d12	21.340	240	14324	0.400	ng	# 0.00
35) Perylene-d12	23.628	264	15719	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	4308	0.275	ng	0.00
5) Phenol-d6	6.879	99	4573	0.245	ng	0.00
8) Nitrobenzene-d5	8.865	82	3676	0.242	ng	-0.01
11) 2-Methylnaphthalene-d10	12.116	152	4793	0.189	ng	-0.01
14) 2,4,6-Tribromophenol	15.883	330	1668	0.327	ng	-0.01
15) 2-Fluorobiphenyl	13.003	172	11356	0.205	ng	0.00
27) Fluoranthene-d10	19.183	212	3514	0.078	ng	0.00
31) Terphenyl-d14	19.782	244	4712	0.147	ng	0.00
Target Compounds						
9) Naphthalene	10.562	128	23515	0.442	ng	100
12) 2-Methylnaphthalene	12.192	142	26138	0.774	ng	99
16) Acenaphthylene	14.110	152	3967	0.070	ng	# 78
17) Acenaphthene	14.452	154	19195	0.488	ng	97
18) Fluorene	15.435	166	10454	0.207	ng	# 93
24) Pentachlorophenol	16.789	266	357	0.056	ng	# 85
25) Phenanthrene	17.186	178	52598	0.825	ng	# 94
26) Anthracene	17.273	178	11427m	0.208	ng	
28) Fluoranthene	19.211	202	58382	0.862	ng	96
30) Pyrene	19.573	202	48829	0.692	ng	# 91
32) Benzo(a)anthracene	21.322	228	22405	0.405	ng	# 84
33) Chrysene	21.366	228	23988	0.394	ng	# 83
34) Bis(2-ethylhexyl)phtha...	21.259	149	6796	0.224	ng	# 58
36) Indeno(1,2,3-cd)pyrene	25.943	276	19877	0.238	ng	# 91
37) Benzo(b)fluoranthene	22.938	252	33034	0.458	ng	# 1
38) Benzo(k)fluoranthene	22.978	252	11106m	0.154	ng	
39) Benzo(a)pyrene	23.525	252	22135	0.375	ng	# 1
40) Dibenzo(a,h)anthracene	25.952	278	6333	0.098	ng	# 1
41) Benzo(g,h,i)perylene	26.659	276	22390	0.311	ng	# 63

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

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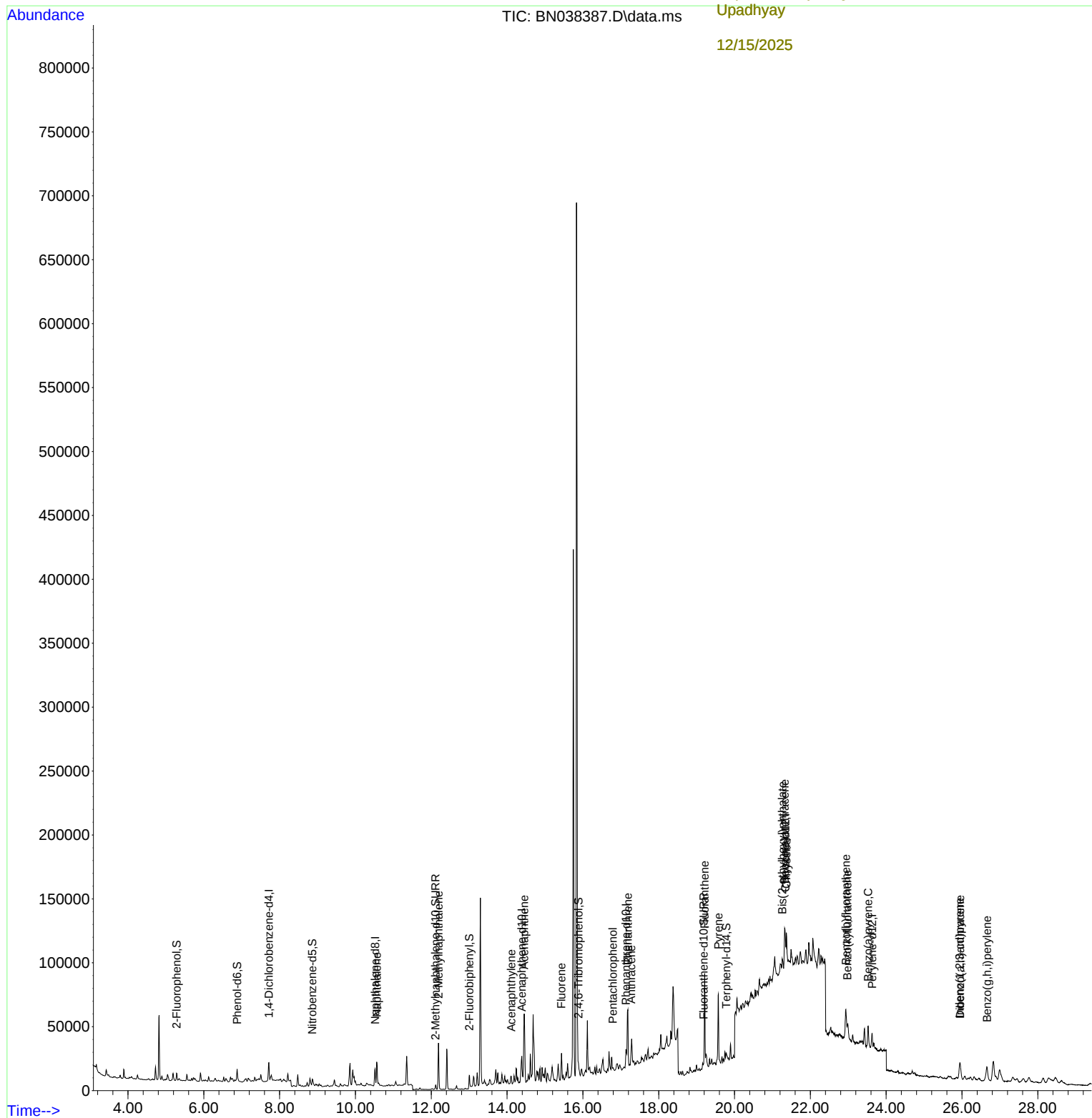
Quant Time: Dec 14 22:24:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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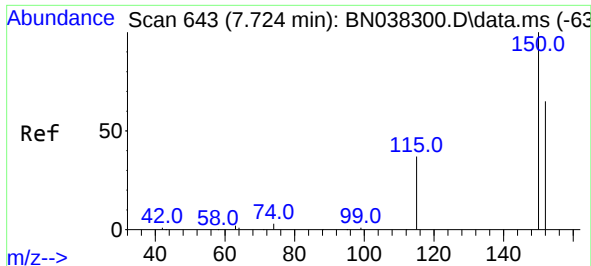
Manual Integrations
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Chavli

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Upadhyay

12/15/2025



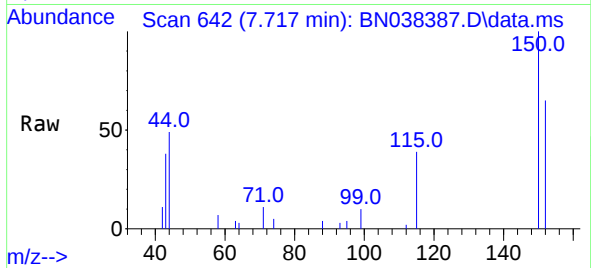


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 643
Delta R.T. -0.007 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :

BNA_N

ClientSampleId :



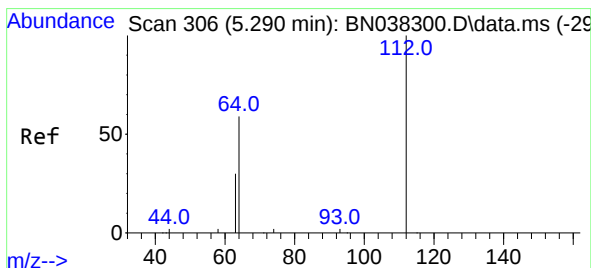
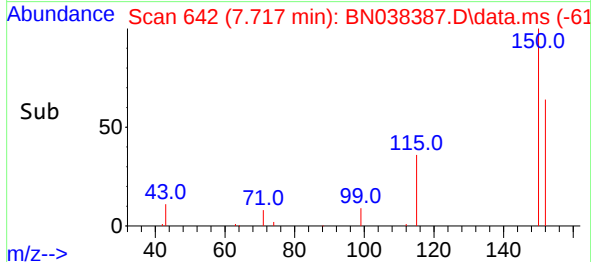
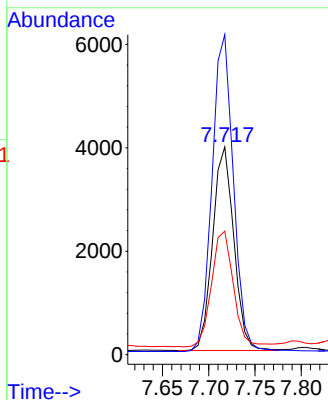
Tgt Ion:152 Resp: 6290
Ion Ratio Lower Upper
152 100
150 154.1 122.4 183.6
115 59.4 47.3 70.9

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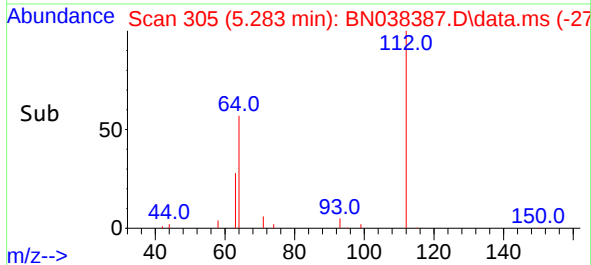
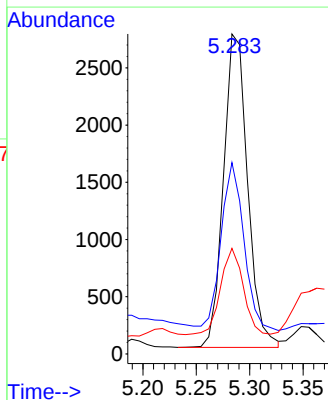
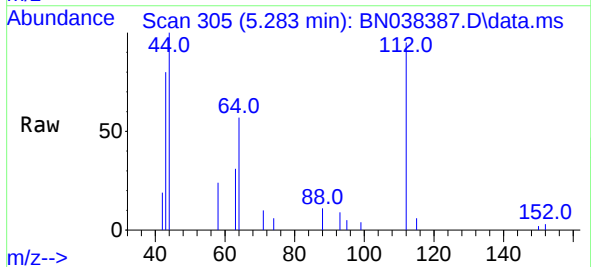
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Supervised By :Jagrut
Upadhyay

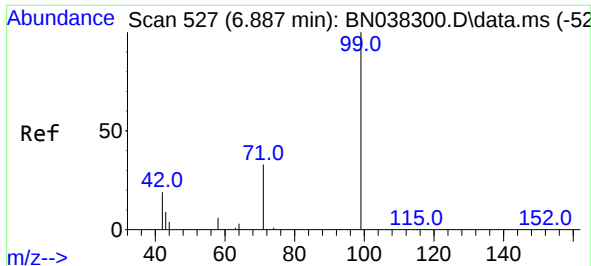
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#4
2-Fluorophenol
Concen: 0.275 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.007 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Tgt Ion:112 Resp: 4308
Ion Ratio Lower Upper
112 100
64 56.1 44.4 66.6
63 25.7 23.4 35.0



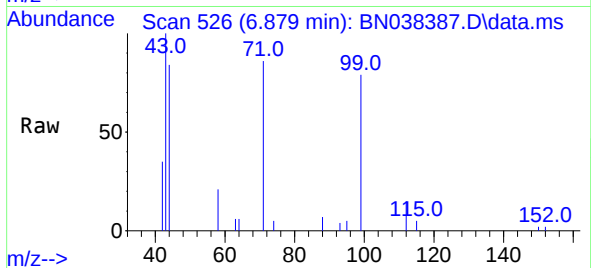


#5
Phenol-d6
Concen: 0.245 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :

BNA_N

ClientSampleId :



Tgt Ion: 99 Resp: 457
Ion Ratio Lower Upper
99 100
42 35.0 16.5 24.7
71 96.2 24.9 37.3

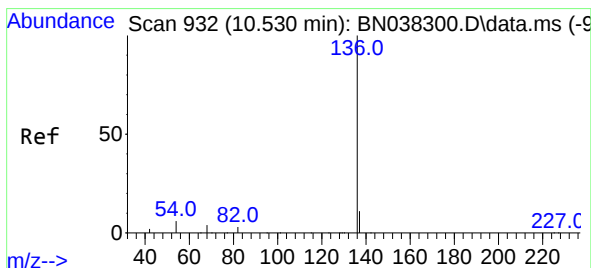
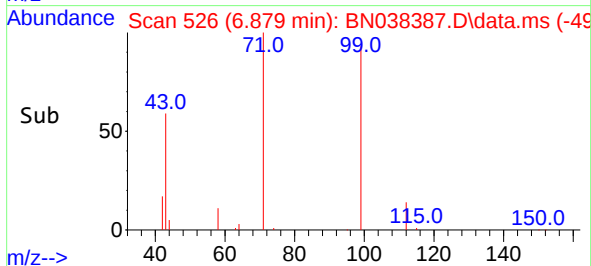
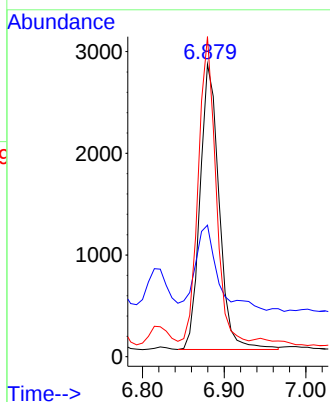
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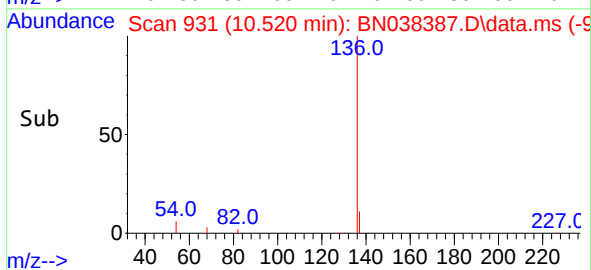
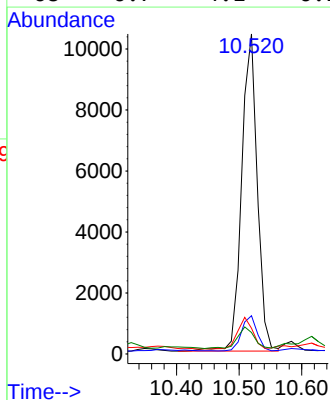
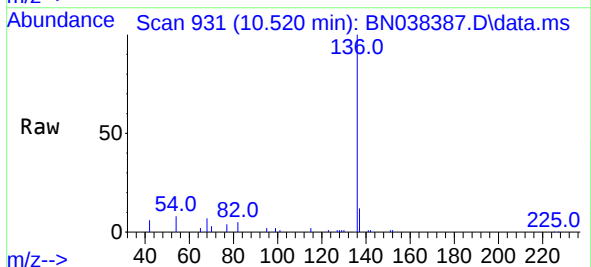
Supervised By :Jagrut
Upadhyay

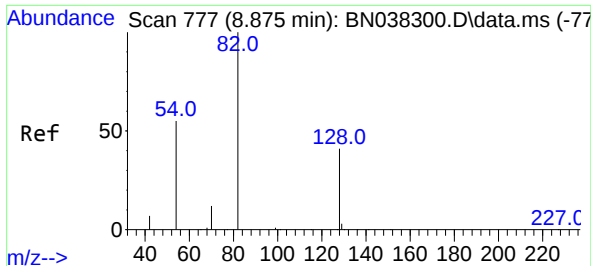
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#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 931
Delta R.T. -0.011 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

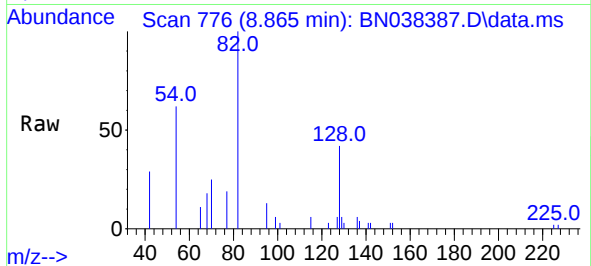
Tgt Ion:136 Resp: 18000
Ion Ratio Lower Upper
136 100
137 11.9 9.1 13.7
54 8.1 5.2 7.8#
68 6.7 4.1 6.1#





#8
Nitrobenzene-d5
Concen: 0.242 ng
RT: 8.865 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



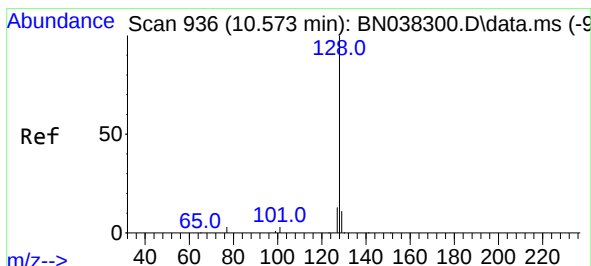
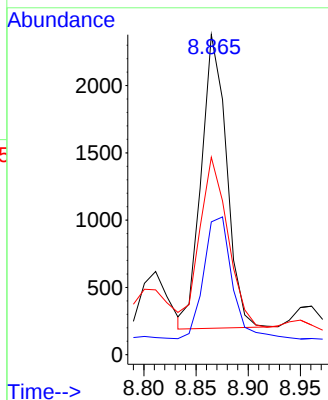
Tgt Ion: 82 Resp: 3670
Ion Ratio Lower Upper
82 100
128 41.5 34.0 51.0
54 61.7 44.4 66.6

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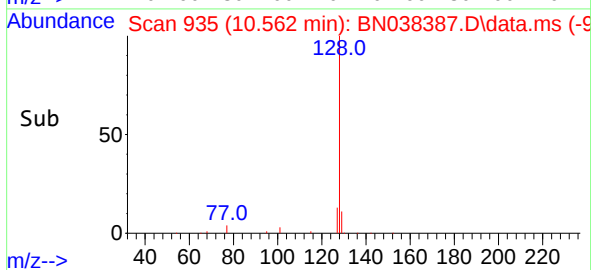
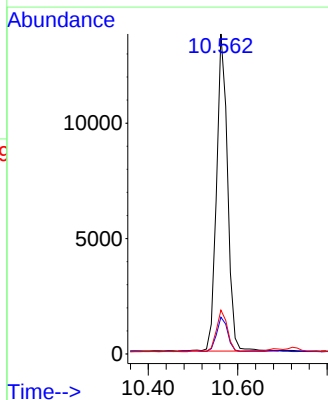
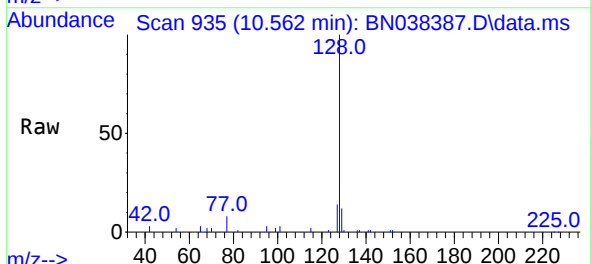
12/15/2025
Supervised By :Jagrut
Upadhyay

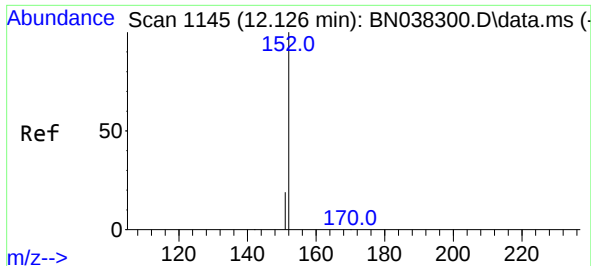
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#9
Naphthalene
Concen: 0.442 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

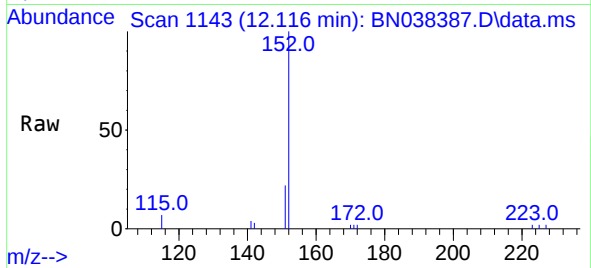
Tgt Ion:128 Resp: 23515
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.7 10.9 16.3





#11
2-Methylnaphthalene-d10
Concen: 0.189 ng
RT: 12.116 min Scan# 1145
Delta R.T. -0.010 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



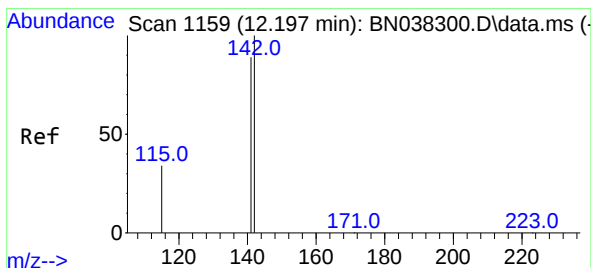
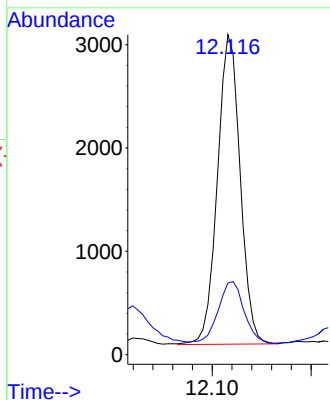
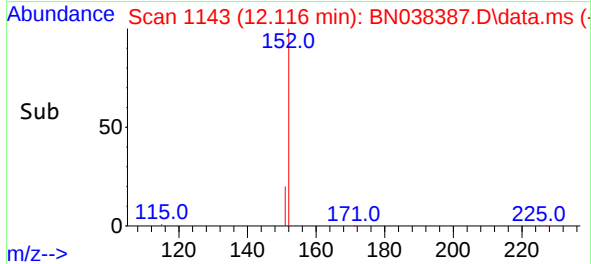
Tgt Ion:152 Resp: 479
Ion Ratio Lower Upper
152 100
151 23.0 17.0 25.6

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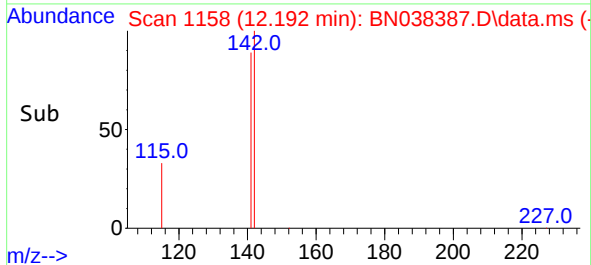
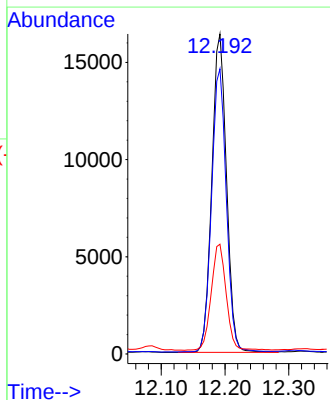
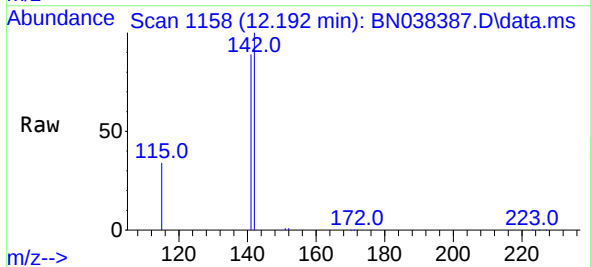
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Upadhyay

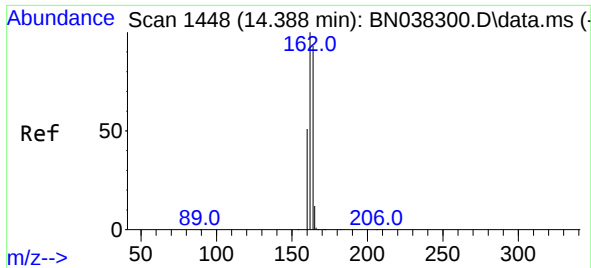
12/15/2025



#12
2-Methylnaphthalene
Concen: 0.774 ng
RT: 12.192 min Scan# 1158
Delta R.T. -0.010 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

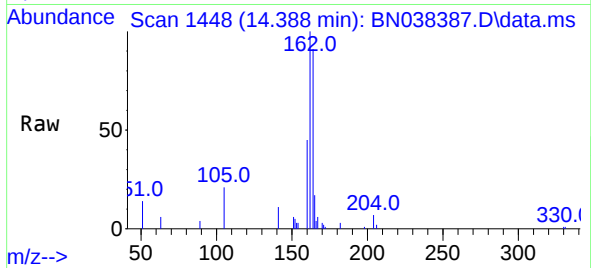
Tgt Ion:142 Resp: 26138
Ion Ratio Lower Upper
142 100
141 89.1 71.4 107.2
115 34.3 28.4 42.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



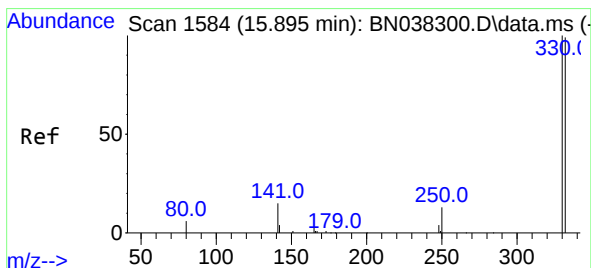
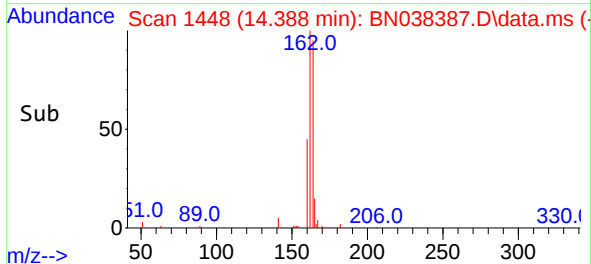
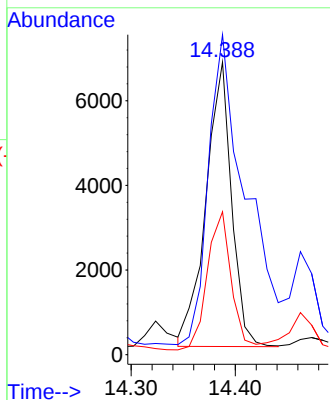
Tgt Ion:164 Resp: 1149
Ion Ratio Lower Upper
164 100
162 109.3 86.2 129.4
160 48.8 44.6 67.0

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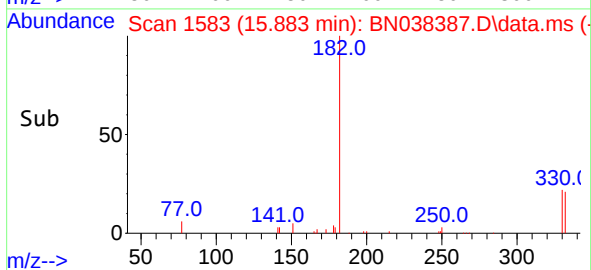
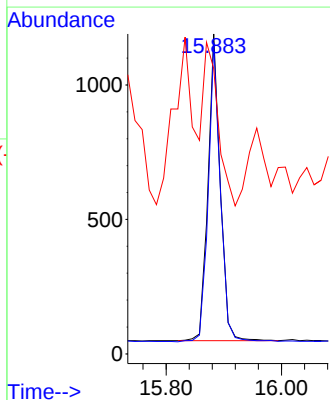
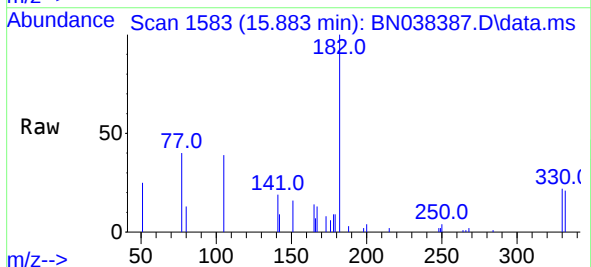
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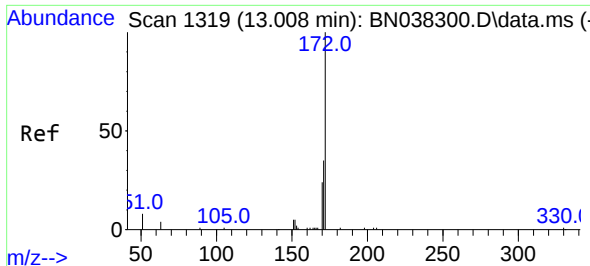
12/15/2025



#14
2,4,6-Tribromophenol
Concen: 0.327 ng
RT: 15.883 min Scan# 1583
Delta R.T. -0.012 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

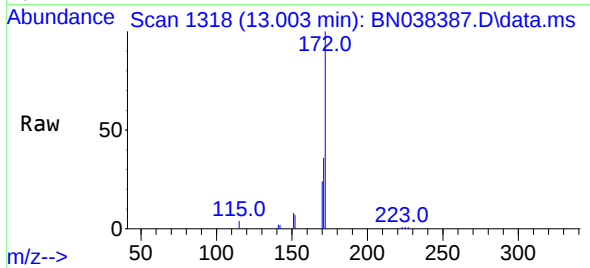
Tgt Ion:330 Resp: 1668
Ion Ratio Lower Upper
330 100
332 96.4 75.8 113.6
141 62.6 31.8 47.8#





#15
2-Fluorobiphenyl
Concen: 0.205 ng
RT: 13.003 min Scan# 1319
Delta R.T. -0.005 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



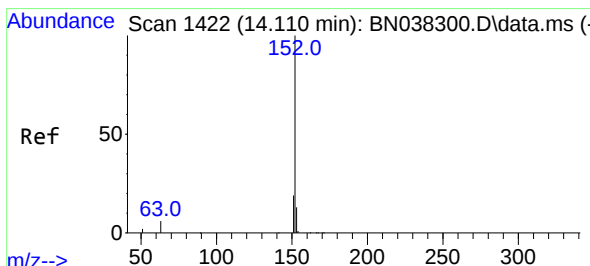
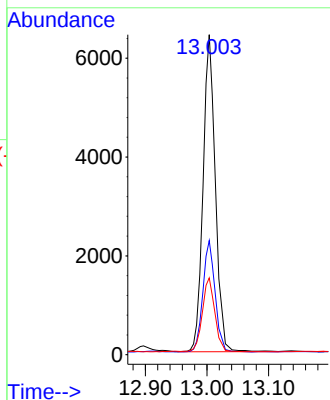
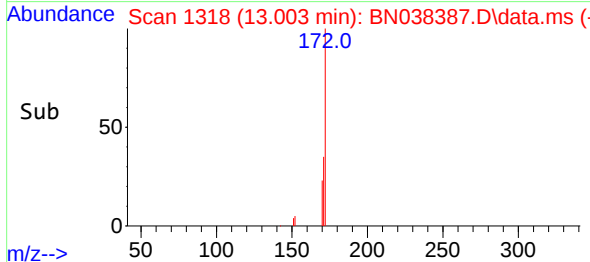
Tgt Ion:172 Resp: 11350
Ion Ratio Lower Upper
172 100
171 35.6 28.6 42.8
170 24.0 19.3 28.9

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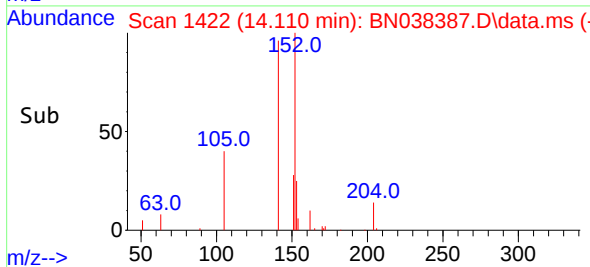
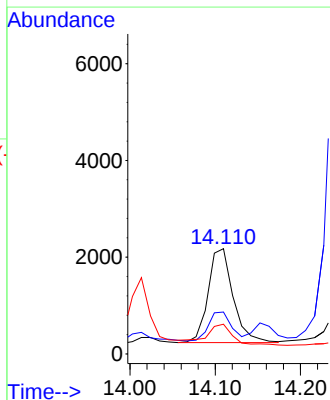
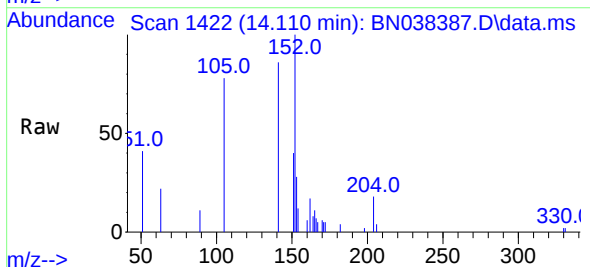
12/15/2025
Supervised By :Jagrut
Upadhyay

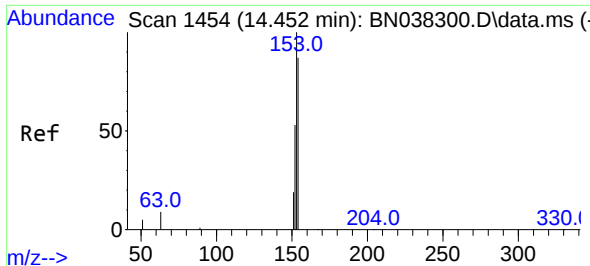
12/15/2025



#16
Acenaphthylene
Concen: 0.070 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

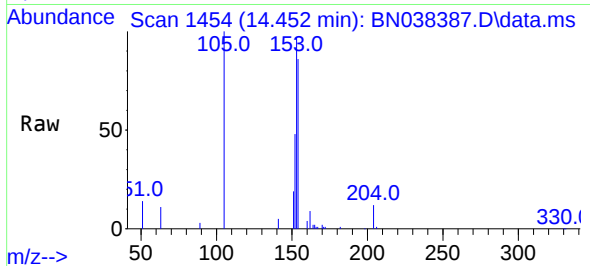
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Ion Ratio Lower Upper
152 100
151 27.7 15.4 23.2#
153 23.3 10.2 15.4#





#17
Acenaphthene
Concen: 0.488 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.011 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



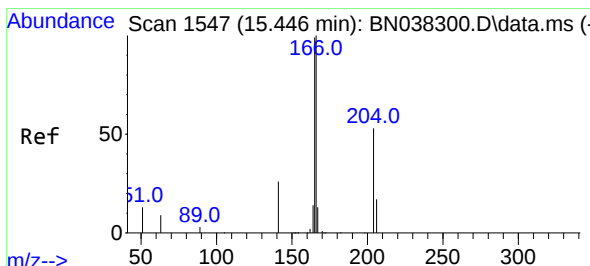
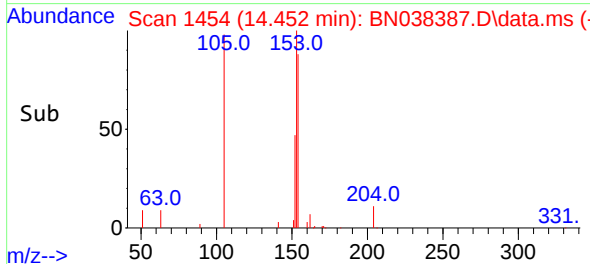
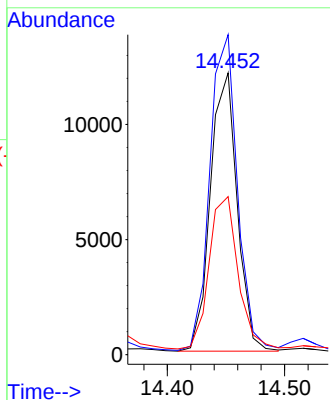
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Ion Ratio Lower Upper
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153 116.5 89.8 134.8
152 59.1 47.5 71.3

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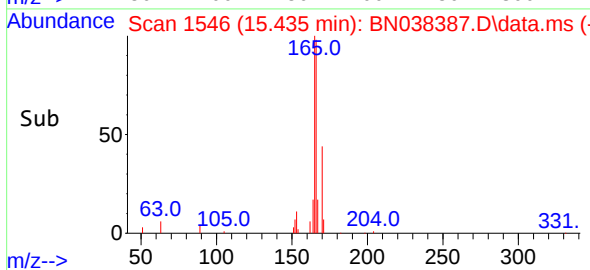
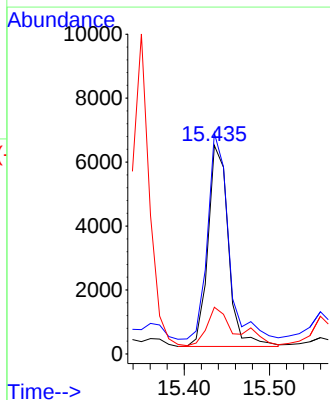
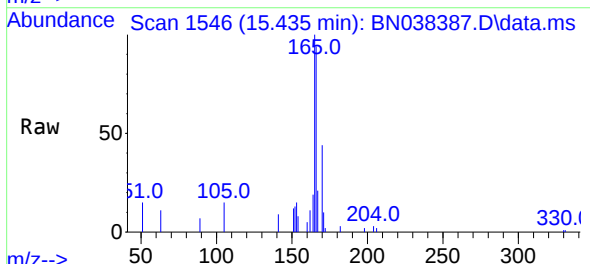
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Upadhyay

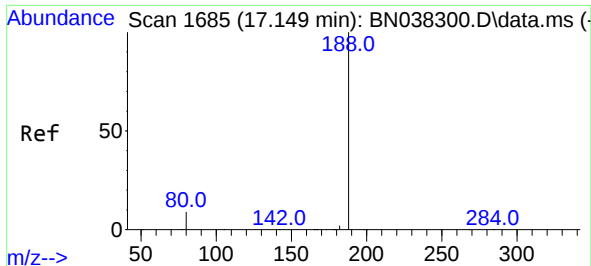
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#18
Fluorene
Concen: 0.207 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

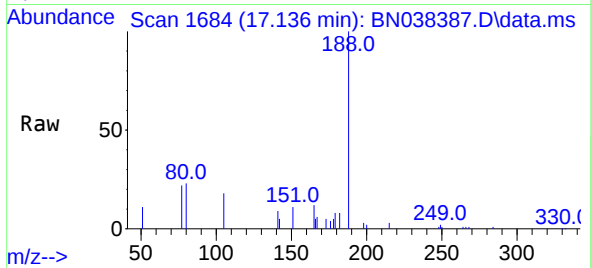
Tgt Ion:166 Resp: 10454
Ion Ratio Lower Upper
166 100
165 103.9 80.2 120.4
167 27.3 10.6 16.0#





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



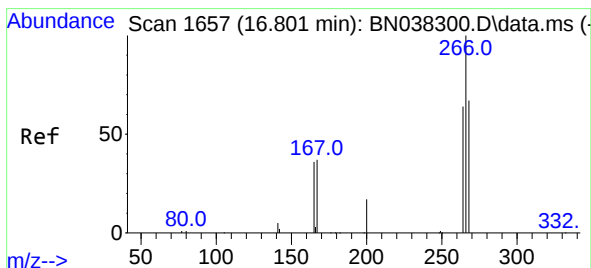
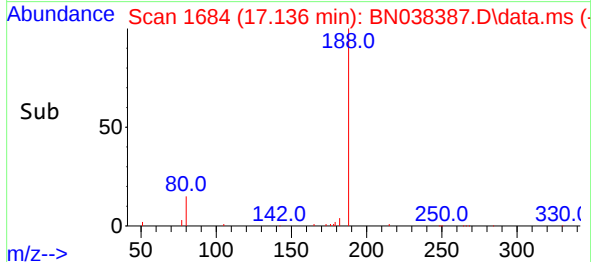
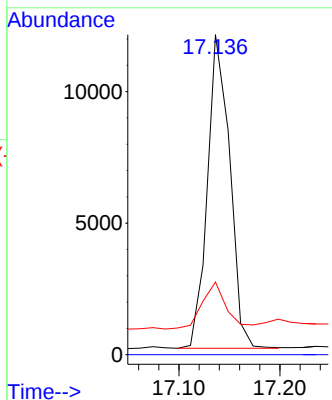
Tgt Ion:188 Resp: 1831
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 22.7 7.4 11.0

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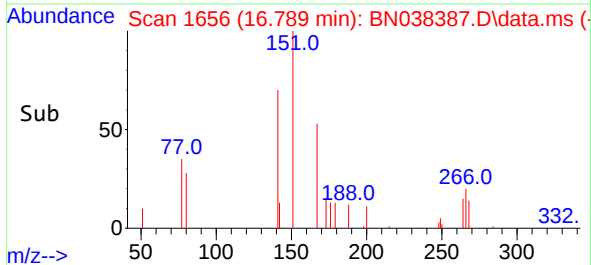
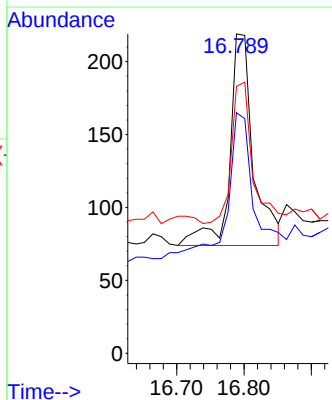
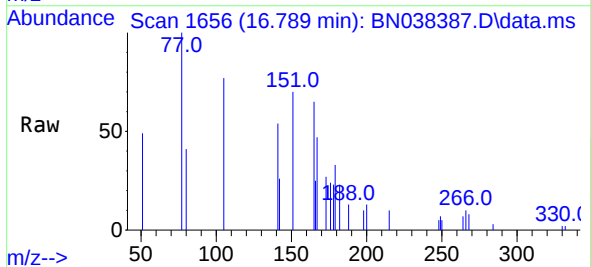
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Upadhyay

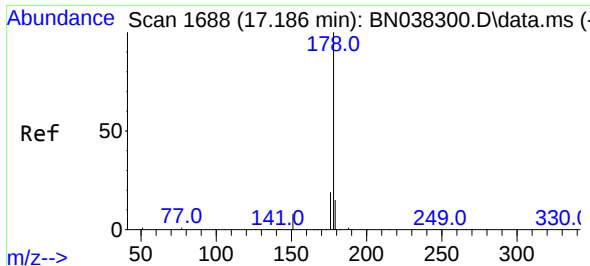
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#24
Pentachlorophenol
Concen: 0.056 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

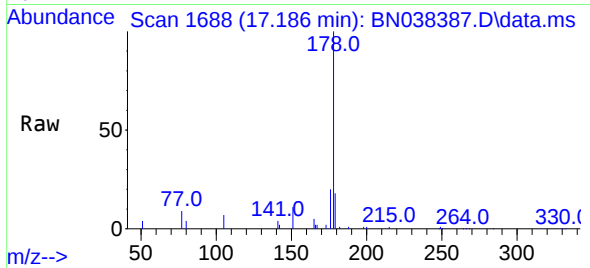
Tgt Ion:266 Resp: 357
Ion Ratio Lower Upper
266 100
264 80.4 50.2 75.2#
268 59.7 52.6 78.8





#25
Phenanthrene
Concen: 0.825 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



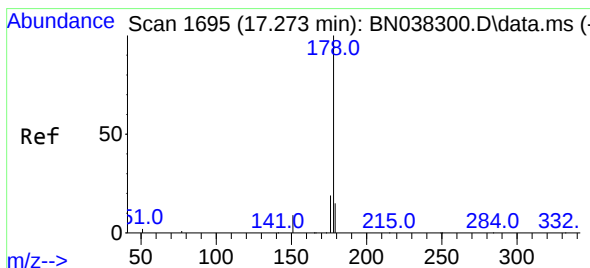
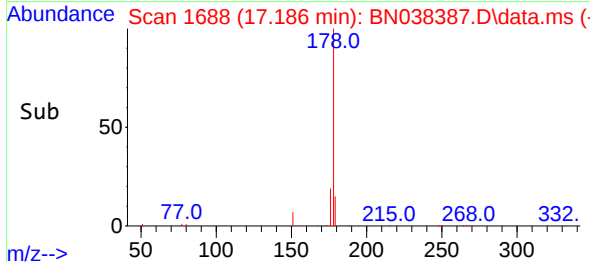
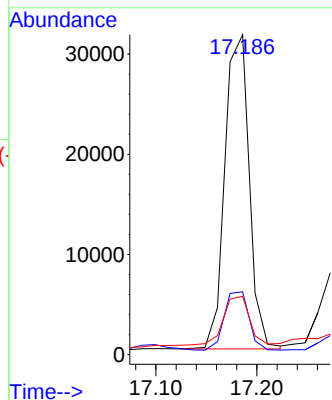
Tgt Ion:178 Resp: 52598
Ion Ratio Lower Upper
178 100
176 18.9 15.5 23.3
179 20.3 12.2 18.2

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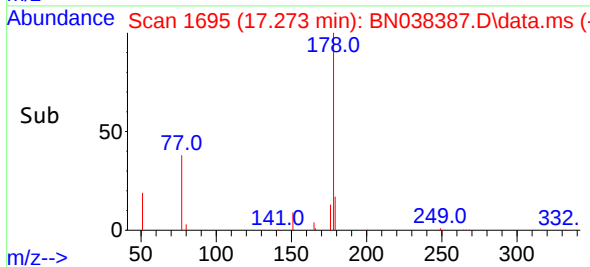
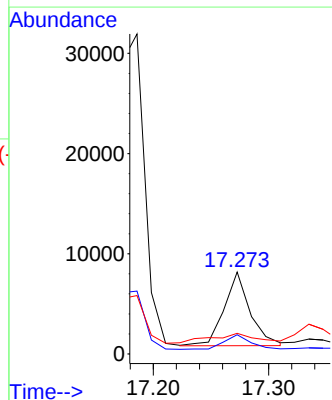
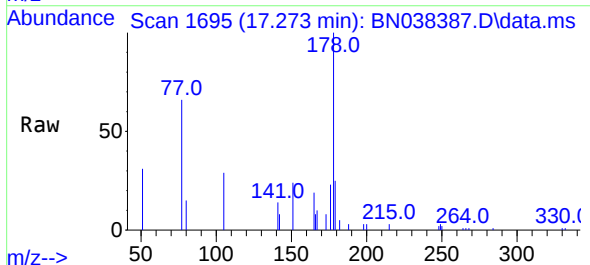
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Upadhyay

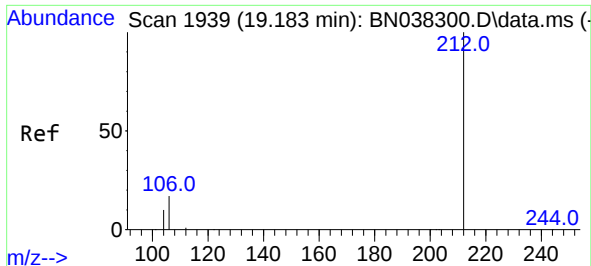
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#26
Anthracene
Concen: 0.208 ng m
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

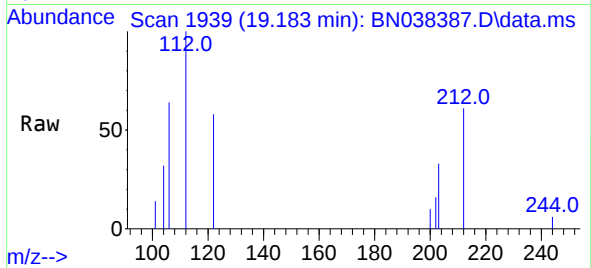
Tgt Ion:178 Resp: 11427
Ion Ratio Lower Upper
178 100
176 86.8 15.1 22.7#
179 79.2 12.0 18.0#





#27
Fluoranthene-d10
Concen: 0.078 ng
RT: 19.183 min Scan# 1939
Delta R.T. -0.005 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



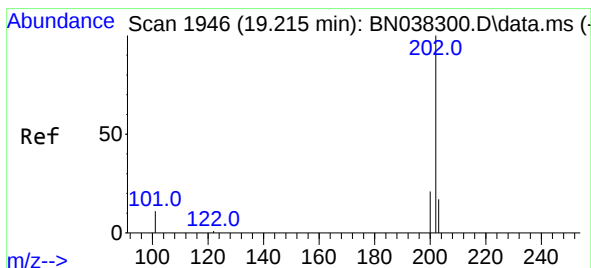
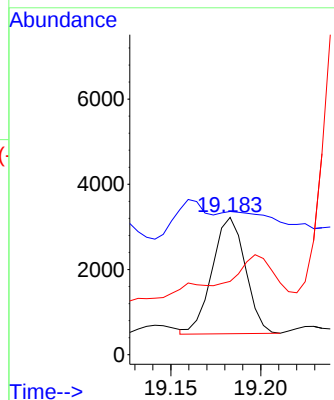
Tgt Ion:212 Resp: 3514
Ion Ratio Lower Upper
212 100
106 0.0 13.7 20.5
104 48.9 7.8 11.8

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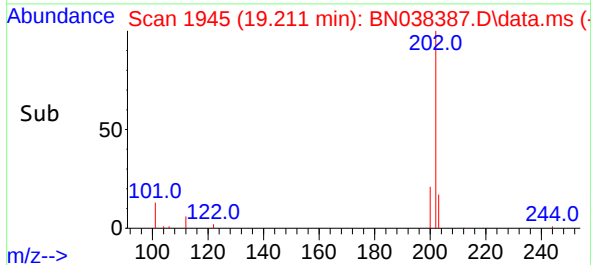
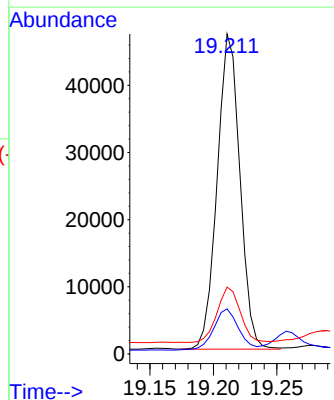
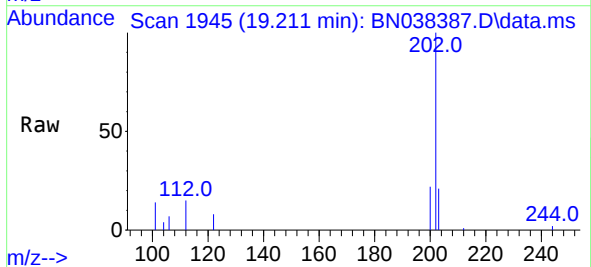
12/15/2025
Supervised By :Jagrut
Upadhyay

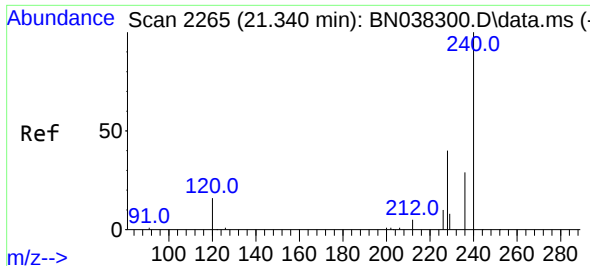
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#28
Fluoranthene
Concen: 0.862 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.009 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Tgt Ion:202 Resp: 58382
Ion Ratio Lower Upper
202 100
101 14.2 9.6 14.4
203 17.9 13.5 20.3



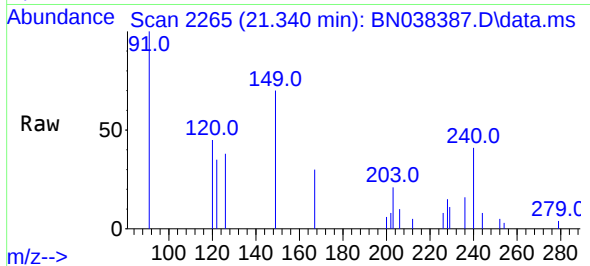


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :

BNA_N

ClientSampleId :



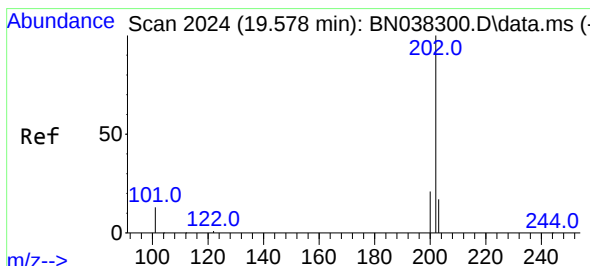
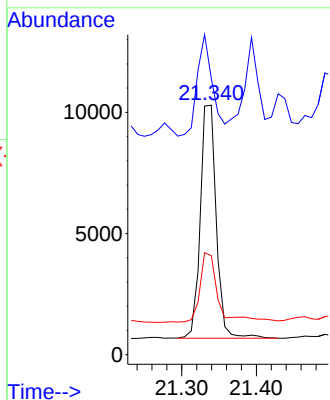
Tgt Ion:240 Resp: 14324
Ion Ratio Lower Upper
240 100
120 110.7 15.4 23.2
236 39.7 23.9 35.9

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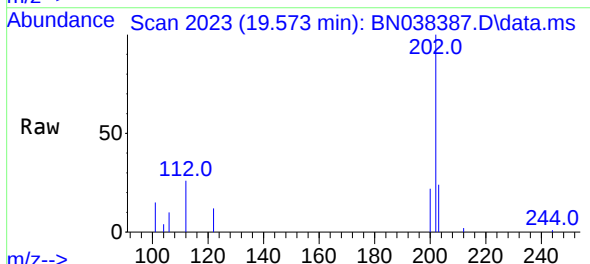
Reviewed By :Rahul
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Supervised By :Jagrut
Upadhyay

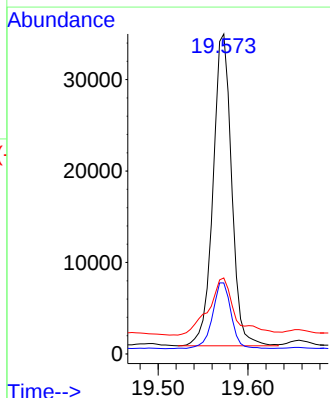
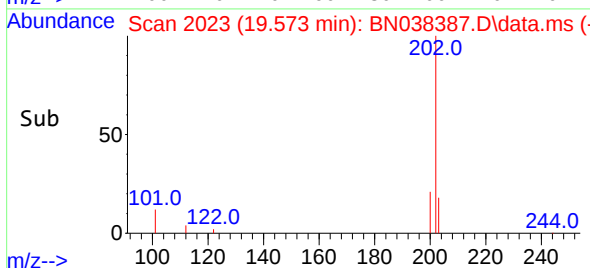
12/15/2025

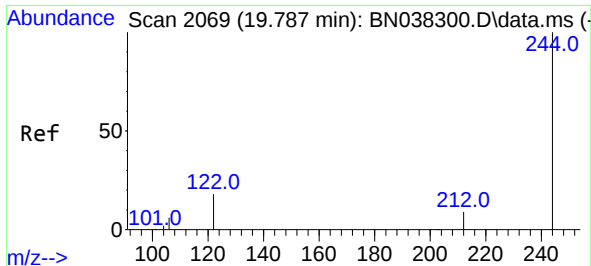


#30
Pyrene
Concen: 0.692 ng
RT: 19.573 min Scan# 2023
Delta R.T. -0.009 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16



Tgt Ion:202 Resp: 48829
Ion Ratio Lower Upper
202 100
200 21.5 16.9 25.3
203 26.1 14.2 21.2



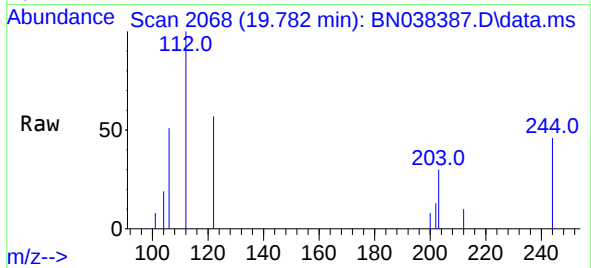


#31
 Terphenyl-d14
 Concen: 0.147 ng
 RT: 19.782 min Scan# 2068
 Delta R.T. -0.009 min
 Lab File: BN038387.D
 Acq: 13 Dec 2025 15:16

Instrument :

BNA_N

ClientSampleId :



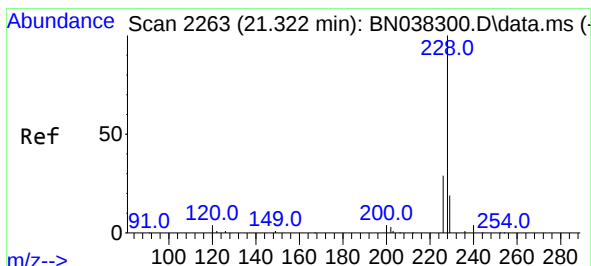
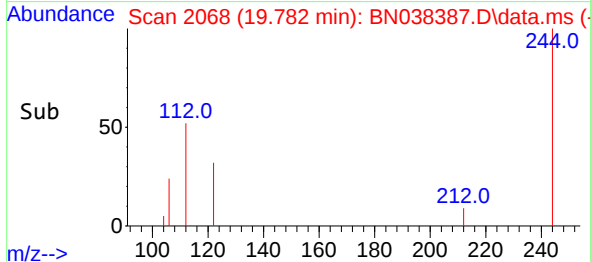
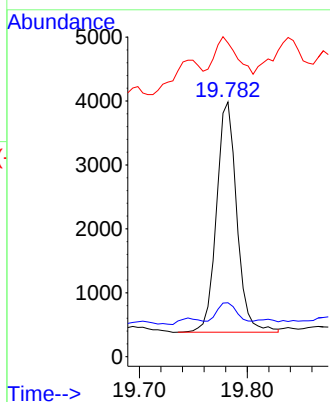
Tgt Ion:244 Resp: 4712
 Ion Ratio Lower Upper
 244 100
 212 21.2 7.9 11.9
 122 123.2 15.0 22.6

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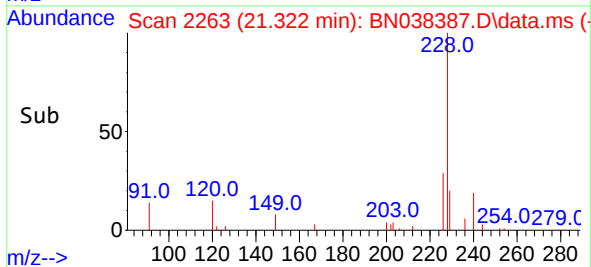
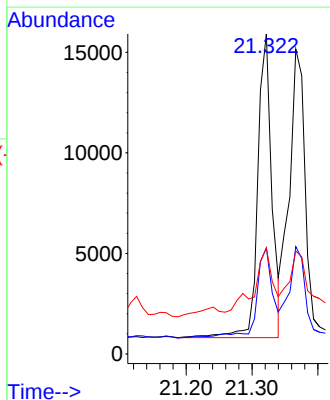
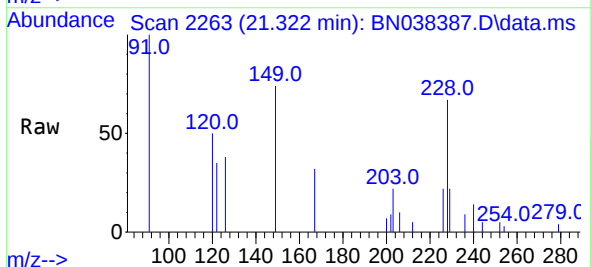
12/15/2025
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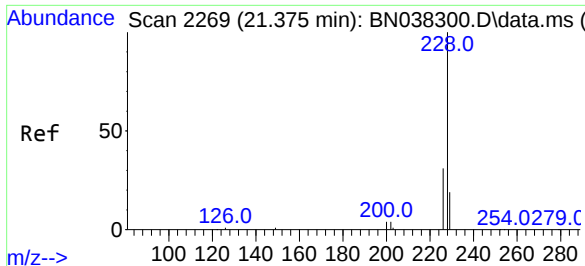
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#32
 Benzo(a)anthracene
 Concen: 0.405 ng
 RT: 21.322 min Scan# 2263
 Delta R.T. -0.009 min
 Lab File: BN038387.D
 Acq: 13 Dec 2025 15:16

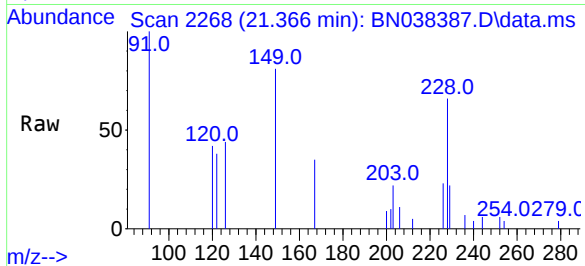
Tgt Ion:228 Resp: 22405
 Ion Ratio Lower Upper
 228 100
 226 33.2 23.3 34.9
 229 33.1 15.7 23.5





#33
Chrysene
Concen: 0.394 ng
RT: 21.366 min Scan# 2136
Delta R.T. -0.009 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



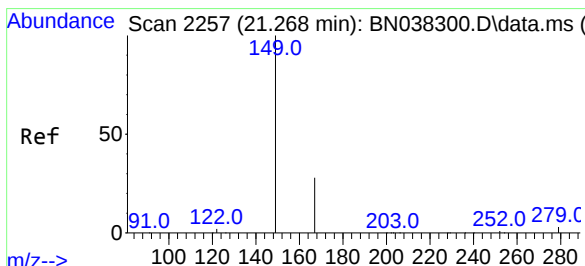
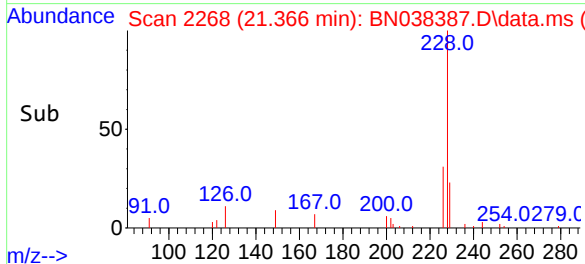
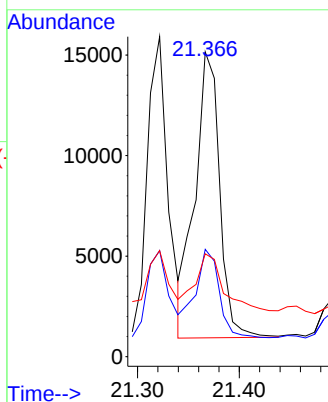
Tgt Ion:228 Resp: 2398
Ion Ratio Lower Upper
228 100
226 35.2 25.0 37.4
229 33.7 15.5 23.3

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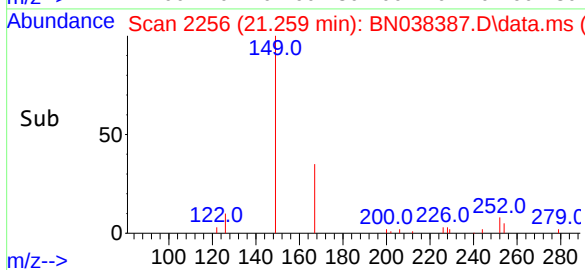
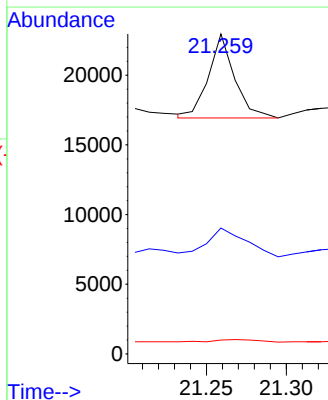
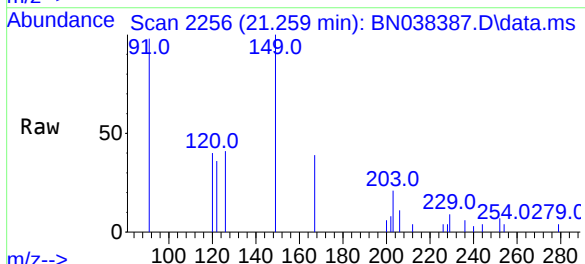
12/15/2025
Supervised By :Jagrut
Upadhyay

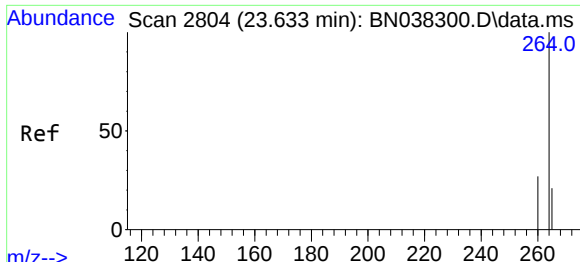
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#34
Bis(2-ethylhexyl)phthalate
Concen: 0.224 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.009 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

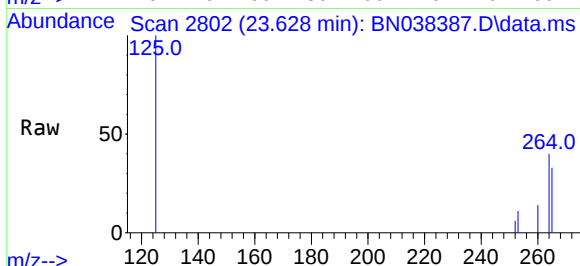
Tgt Ion:149 Resp: 6796
Ion Ratio Lower Upper
149 100
167 50.7 21.4 32.0#
279 4.2 2.4 3.6#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.628 min Scan# 2802
Delta R.T. -0.006 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



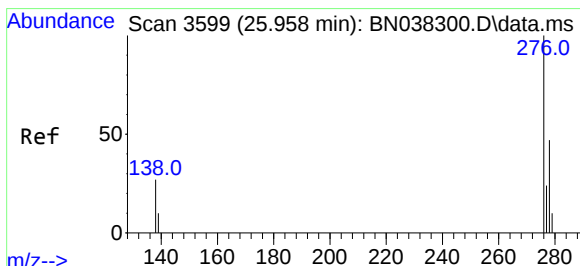
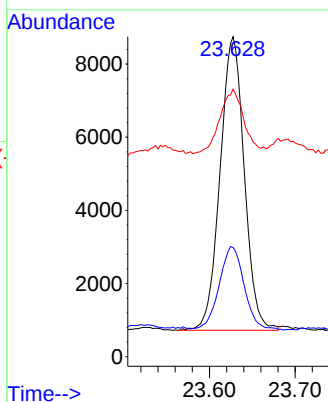
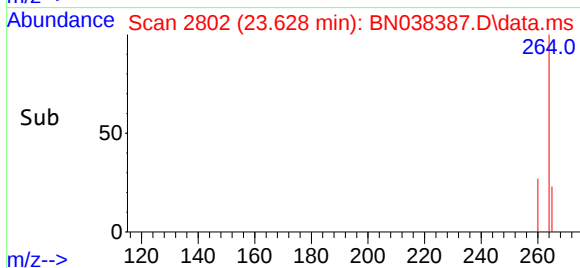
Tgt Ion:264 Resp: 15719
Ion Ratio Lower Upper
264 100
260 34.2 22.2 33.2
265 83.6 80.2 120.2

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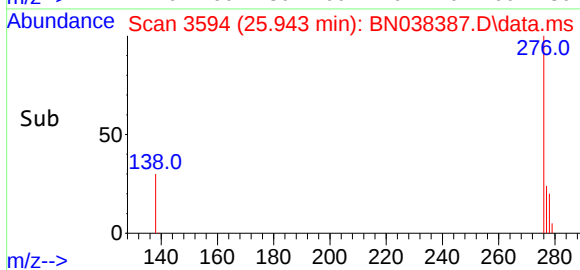
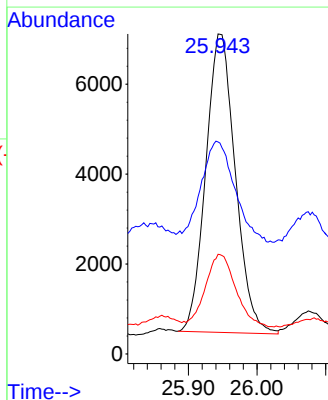
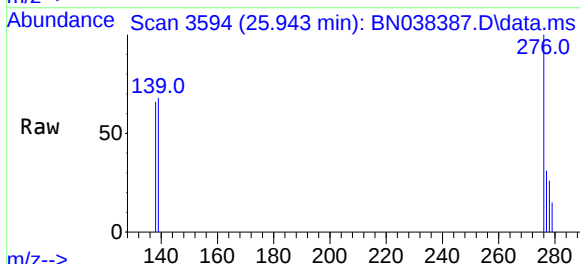
12/15/2025
Supervised By :Jagrut
Upadhyay

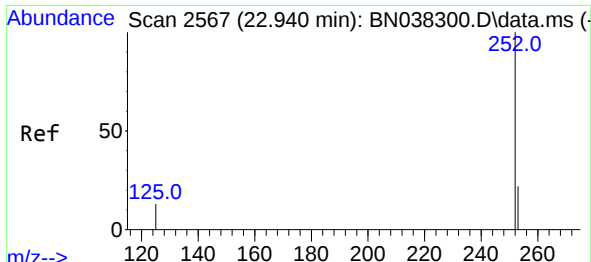
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#36
Indeno(1,2,3-cd)pyrene
Concen: 0.238 ng
RT: 25.943 min Scan# 3594
Delta R.T. -0.020 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

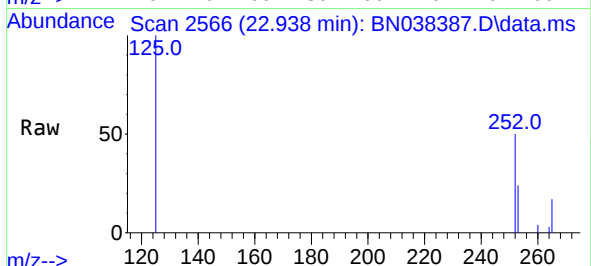
Tgt Ion:276 Resp: 19877
Ion Ratio Lower Upper
276 100
138 38.2 23.6 35.4
277 24.6 19.7 29.5





#37
Benzo(b)fluoranthene
Concen: 0.458 ng
RT: 22.938 min Scan# 2567
Delta R.T. -0.009 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :



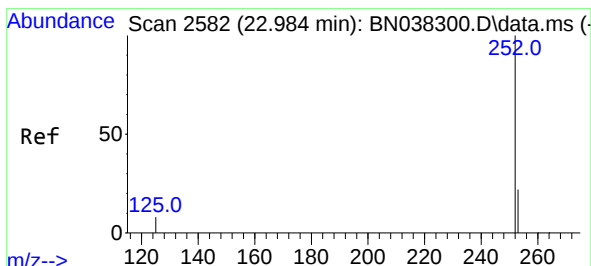
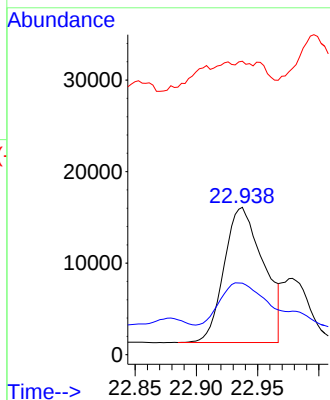
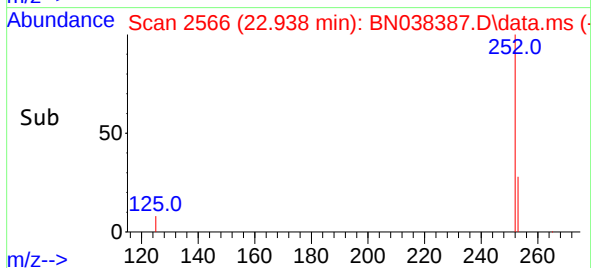
Tgt Ion:252 Resp: 33034
Ion Ratio Lower Upper
252 100
253 48.5 21.1 31.7
125 199.3 16.4 24.6

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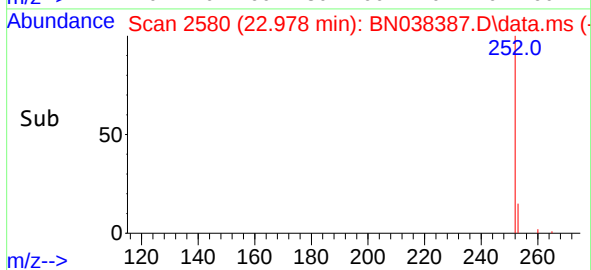
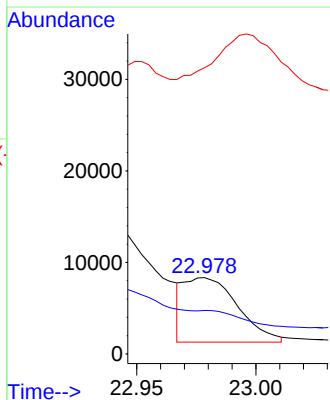
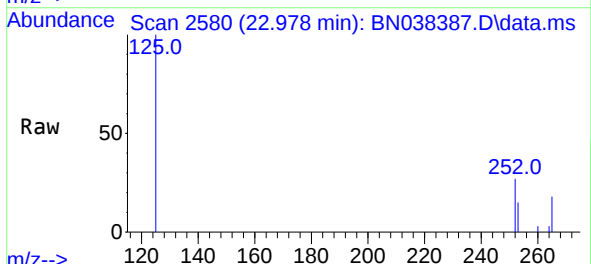
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Supervised By :Jagrut
Upadhyay

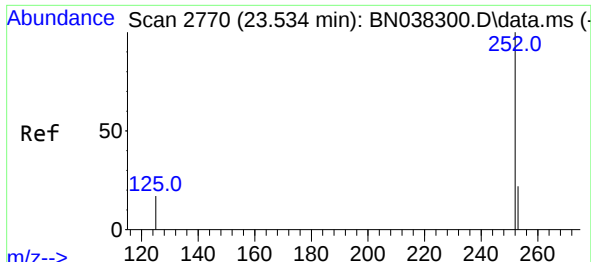
12/15/2025



#38
Benzo(k)fluoranthene
Concen: 0.154 ng m
RT: 22.978 min Scan# 2580
Delta R.T. -0.012 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Tgt Ion:252 Resp: 11106
Ion Ratio Lower Upper
252 100
253 57.0 21.4 32.0#
125 375.1 16.2 24.2#





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.525 min Scan# 21

Delta R.T. -0.009 min

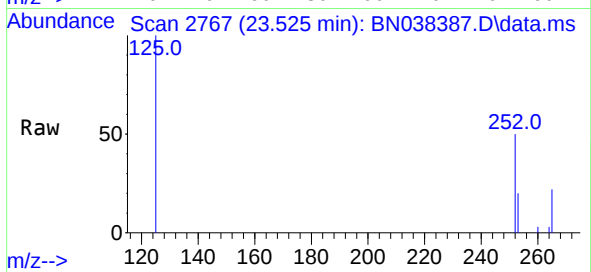
Lab File: BN038387.D

Acq: 13 Dec 2025 15:16

Instrument :

BNA_N

ClientSampleId :



Tgt Ion:252 Resp: 2213

Ion Ratio Lower Upper

252 100

253 39.7 23.3 34.9

125 198.5 22.4 33.6

Manual Integrations

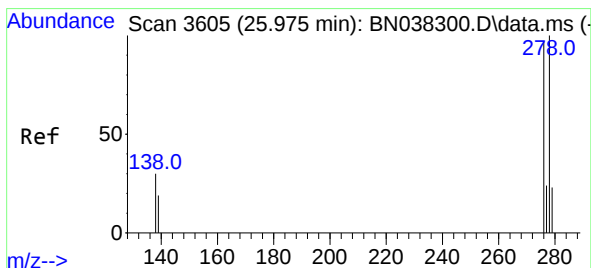
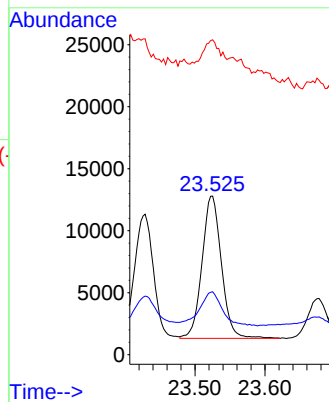
APPROVED

Reviewed By :Rahul
Chavli

12/15/2025

Supervised By :Jagrut
Upadhyay

12/15/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.098 ng

RT: 25.952 min Scan# 3597

Delta R.T. -0.029 min

Lab File: BN038387.D

Acq: 13 Dec 2025 15:16

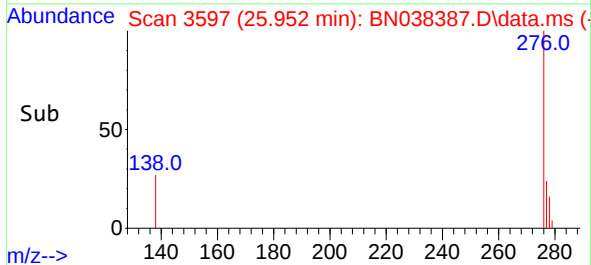
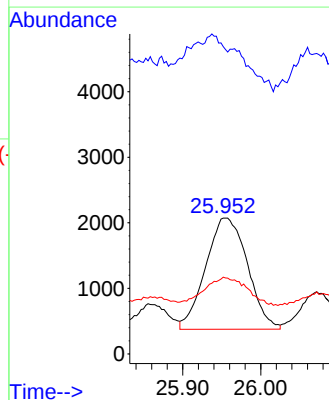
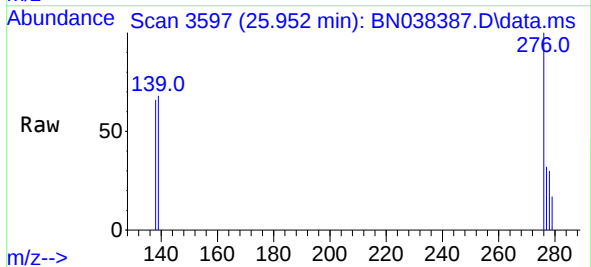
Tgt Ion:278 Resp: 6333

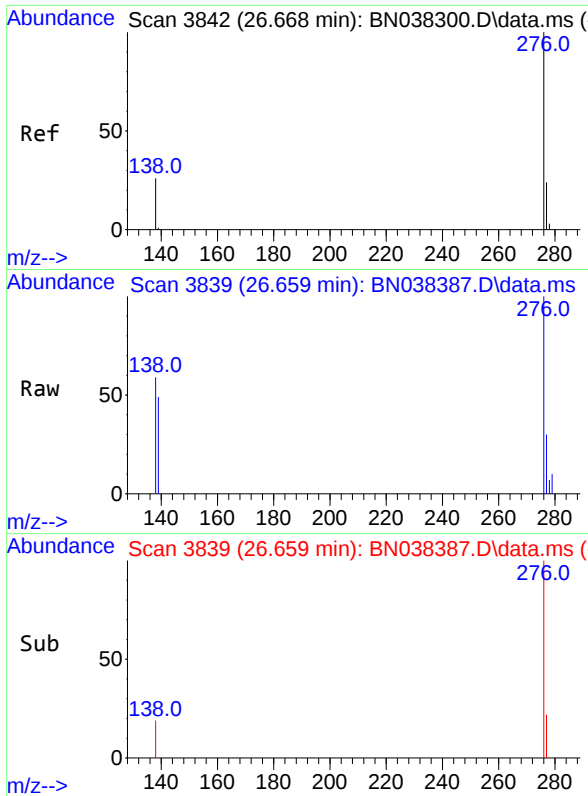
Ion Ratio Lower Upper

278 100

139 226.2 17.8 26.8

279 56.5 21.3 31.9





#41
Benzo(g,h,i)perylene
Concen: 0.311 ng
RT: 26.659 min Scan# 3839
Delta R.T. -0.017 min
Lab File: BN038387.D
Acq: 13 Dec 2025 15:16

Instrument :
BNA_N
ClientSampleId :

Tgt Ion:276 Resp: 22390
Ion Ratio Lower Upper
276 100
277 29.7 20.0 30.0
138 59.4 21.8 32.6

Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

12/15/2025
Supervised By :Jagrut
Upadhyay

12/15/2025

