

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090925\
 Data File : BG064325.D
 Acq On : 9 Sep 2025 15:49
 Operator : RC/JU
 Sample : Q3031-01DL 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-09052025DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/10/2025
 Supervised By :Jagrut Upadhyay 09/10/2025

Quant Time: Sep 09 16:25:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 28 17:41:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.846	152	20652	20.000	ng	-0.01
21) Naphthalene-d8	10.637	136	84196	20.000	ng	#-0.01
39) Acenaphthene-d10	14.474	164	57058	20.000	ng	0.00
64) Phenanthrene-d10	17.212	188	135981	20.000	ng	#-0.01
76) Chrysene-d12	21.448	240	182350	20.000	ng	# 0.00
86) Perylene-d12	24.456	264	207624	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.438	112	4304	3.739	ng	0.00
7) Phenol-d6	7.018	99	5543	3.505	ng	-0.01
23) Nitrobenzene-d5	8.998	82	4050	2.683	ng	-0.02
42) 2,4,6-Tribromophenol	15.960	330	4071	5.387	ng	-0.01
45) 2-Fluorobiphenyl	13.093	172	7901	2.114	ng	-0.02
79) Terphenyl-d14	19.832	244	18707	2.140	ng	-0.01
Target Compounds						Qvalue
58) Fluorene	15.520	166	12280	2.923	ng	# 87
71) Phenanthrene	17.259	178	161938	22.579	ng	97
72) Anthracene	17.347	178	40946m	5.612	ng	
75) Fluoranthene	19.268	202	366354	43.443	ng	97
78) Pyrene	19.633	202	315759	27.485	ng	99
81) Benzo(a)anthracene	21.431	228	195003	16.716	ng	99
83) Chrysene	21.489	228	169094	15.098	ng	96
87) Indeno(1,2,3-cd)pyrene	27.829	276	89117	6.285	ng	# 95
88) Benzo(b)fluoranthene	23.510	252	211317	18.033	ng	100
89) Benzo(k)fluoranthene	23.563	252	83869m	7.025	ng	
90) Benzo(a)pyrene	24.310	252	155930m	14.305	ng	
91) Dibenzo(a,h)anthracene	27.876	278	27246	2.393	ng	98
92) Benzo(g,h,i)perylene	28.886	276	85002	7.673	ng	98

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

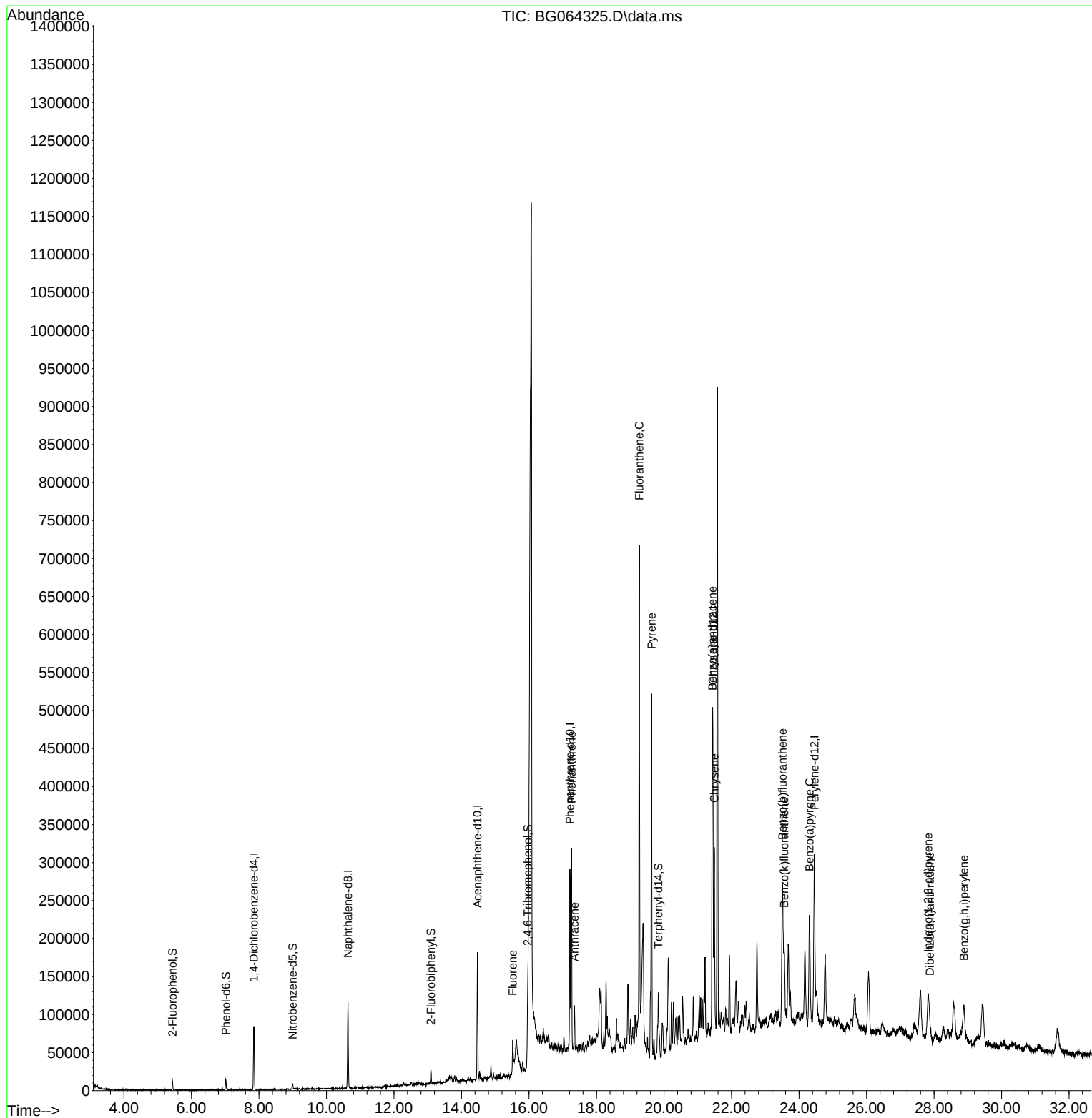
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090925\
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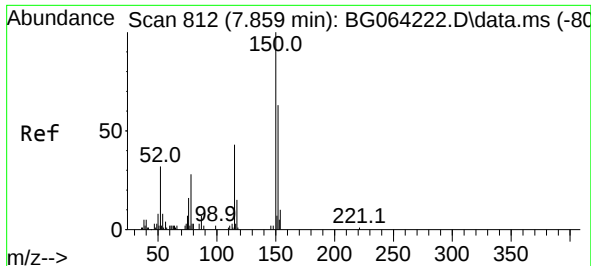
Instrument :
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ClientSampleId :
PL-01-09052025DL

Quant Time: Sep 09 16:25:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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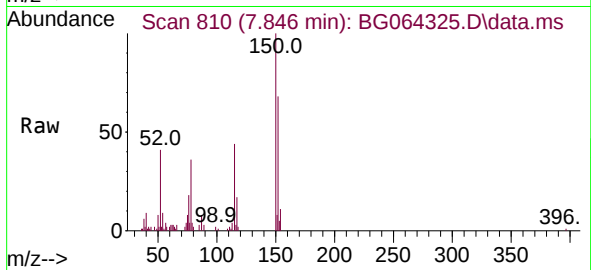
Reviewed By :Rahul Chavli 09/10/2025
Supervised By :Jagrut Upadhyay 09/10/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.846 min Scan# 812
Delta R.T. -0.013 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

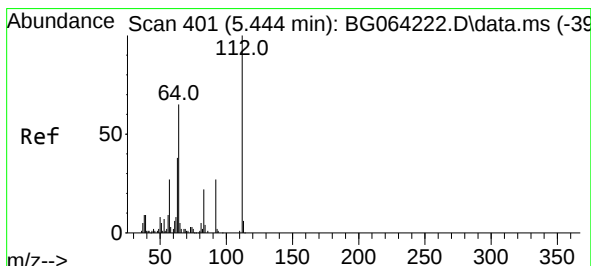
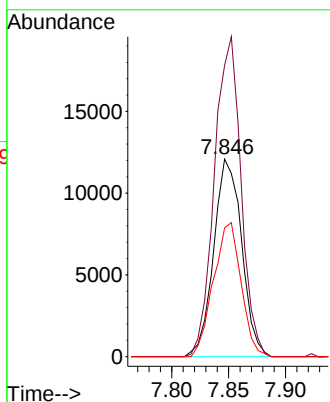
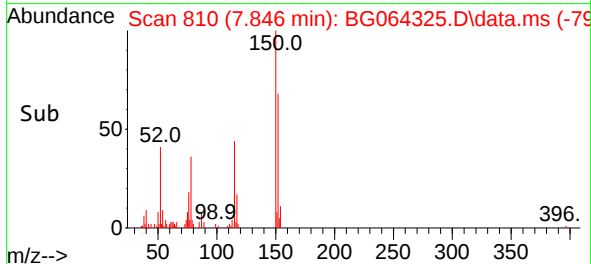
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025DL



Tgt Ion:152 Resp: 20652
Ion Ratio Lower Upper
152 100
150 147.5 128.0 192.0
115 65.1 55.7 83.5

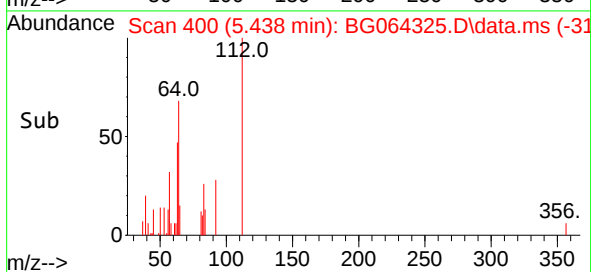
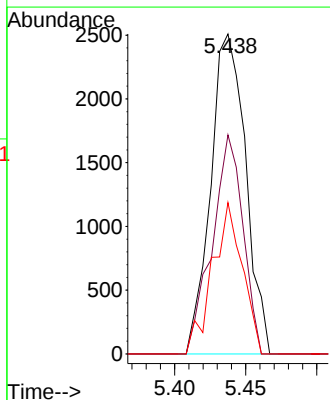
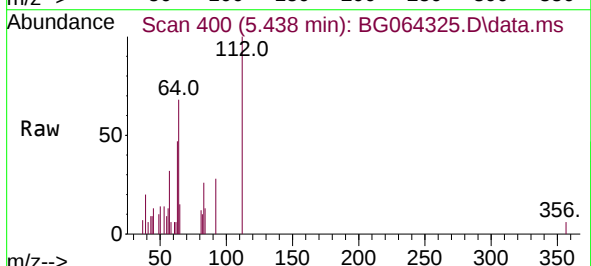
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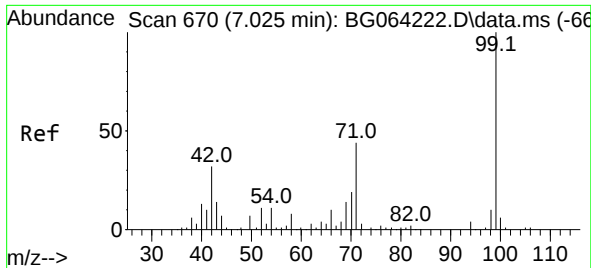
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Supervised By :Jagrut Upadhyay 09/10/2025



#5
2-Fluorophenol
Concen: 3.739 ng
RT: 5.438 min Scan# 400
Delta R.T. -0.007 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

Tgt Ion:112 Resp: 4304
Ion Ratio Lower Upper
112 100
64 68.4 51.8 77.6
63 47.3 30.6 45.8#





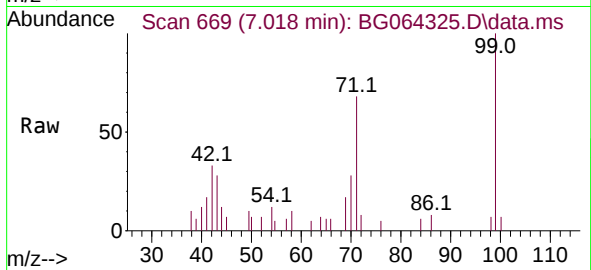
#7
Phenol-d6
Concen: 3.505 ng
RT: 7.018 min Scan# 60
Delta R.T. -0.013 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025DL

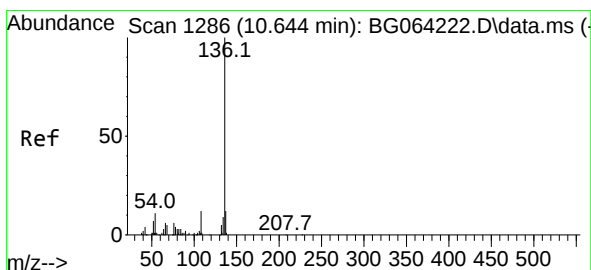
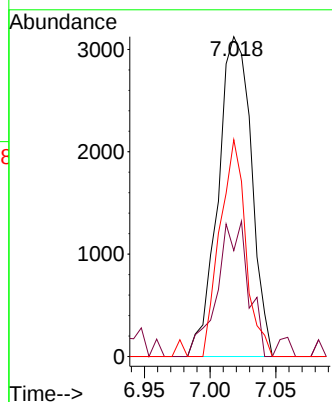
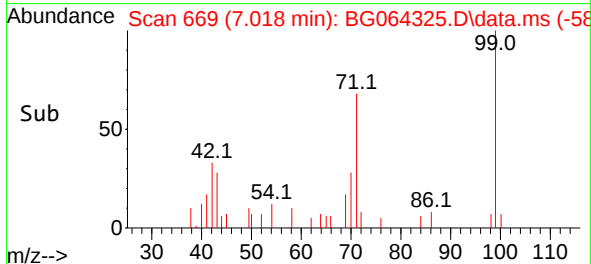


Tgt Ion: 99 Resp: 5543
Ion Ratio Lower Upper
99 100
42 33.1 25.8 38.8
71 67.8 35.2 52.8

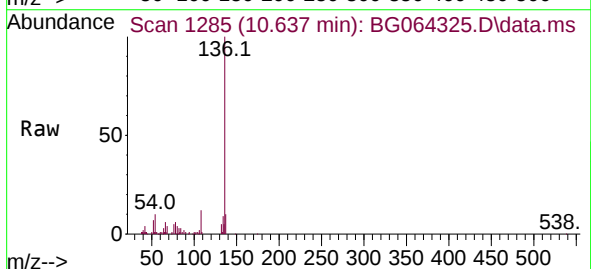
Manual Integrations

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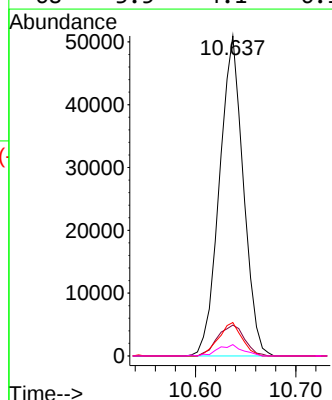
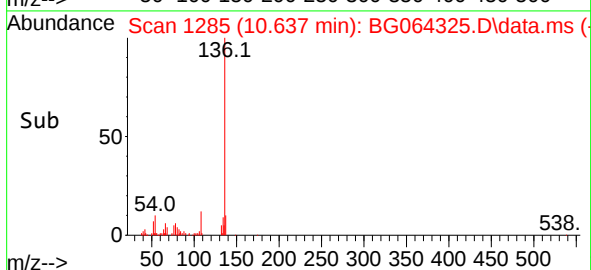
Reviewed By :Rahul Chavli 09/10/2025
Supervised By :Jagrut Upadhyay 09/10/2025

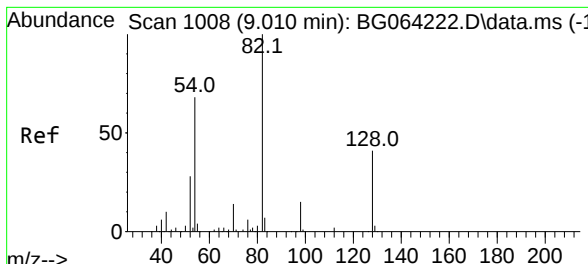


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.637 min Scan# 1285
Delta R.T. -0.013 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49



Tgt Ion:136 Resp: 84196
Ion Ratio Lower Upper
136 100
137 9.6 9.6 14.4
54 10.4 8.8 13.2
68 3.5 4.1 6.1





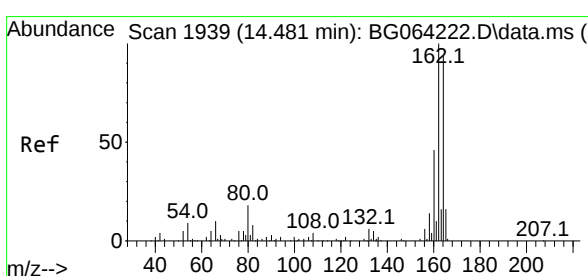
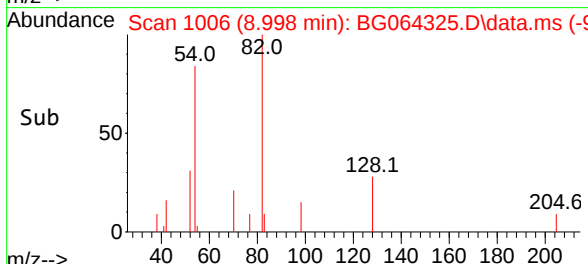
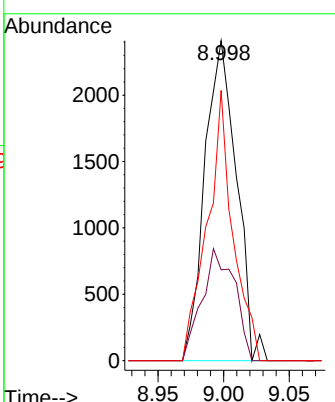
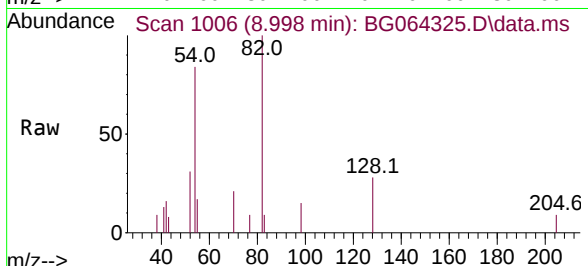
#23
 Nitrobenzene-d5
 Concen: 2.683 ng
 RT: 8.998 min Scan# 1006
 Delta R.T. -0.019 min
 Lab File: BG064325.D
 Acq: 9 Sep 2025 15:49

Instrument : BNA_G
 ClientSampleId : PL-01-09052025DL

Tgt Ion:	82	Resp:	4050
Ion Ratio	Lower	Upper	
82	100		
128	28.4	32.6	48.8
54	84.4	54.7	82.1

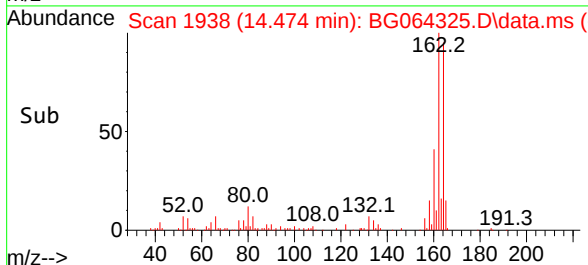
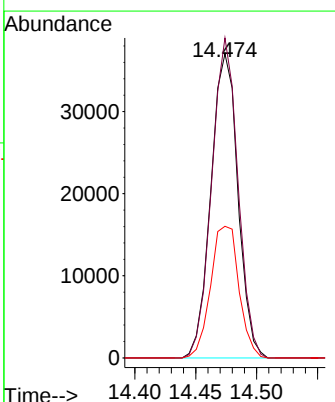
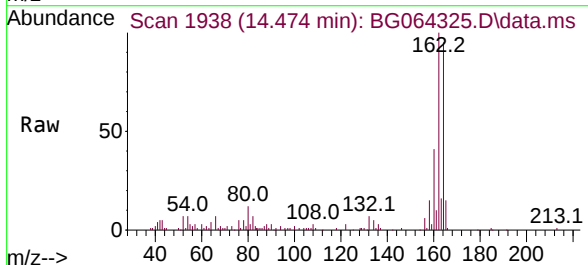
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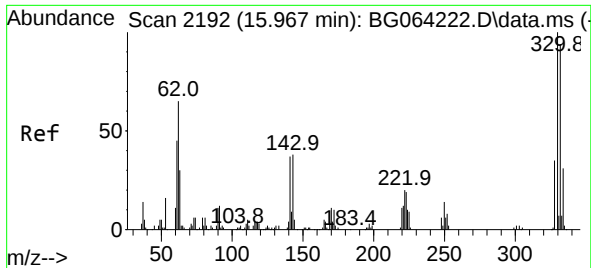
Reviewed By :Rahul Chavli 09/10/2025
 Supervised By :Jagrut Upadhyay 09/10/2025



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.474 min Scan# 1938
 Delta R.T. -0.007 min
 Lab File: BG064325.D
 Acq: 9 Sep 2025 15:49

Tgt Ion:	164	Resp:	57058
Ion Ratio	Lower	Upper	
164	100		
162	105.2	85.4	128.0
160	43.3	39.2	58.8





#42
2,4,6-Tribromophenol
Concen: 5.387 ng
RT: 15.960 min Scan# 2192
Delta R.T. -0.013 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025DL

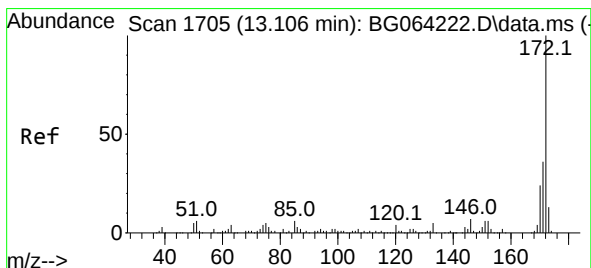
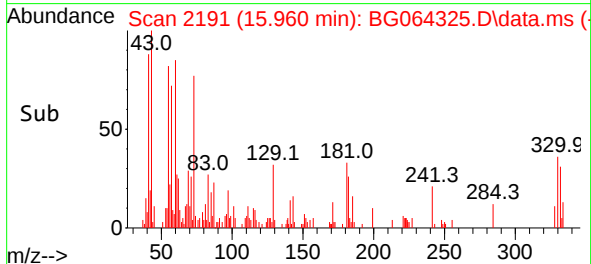
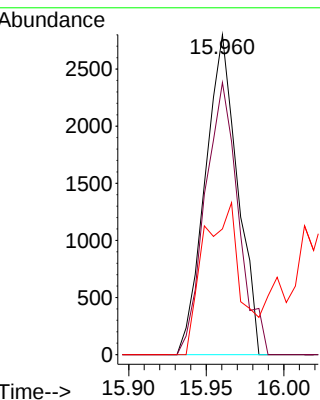
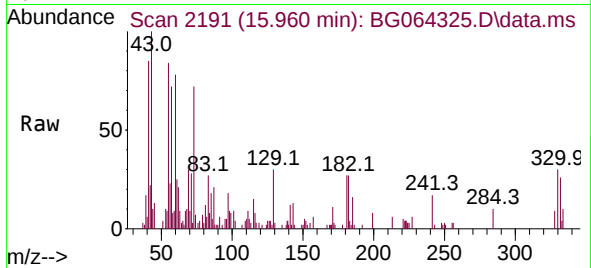
Tgt Ion:330 Resp: 407
Ion Ratio Lower Upper
330 100
332 87.5 77.6 116.4
141 54.7 29.8 44.6

Manual Integrations

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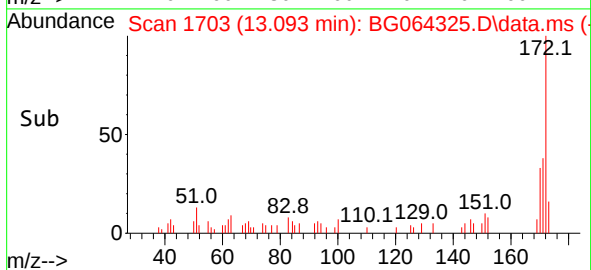
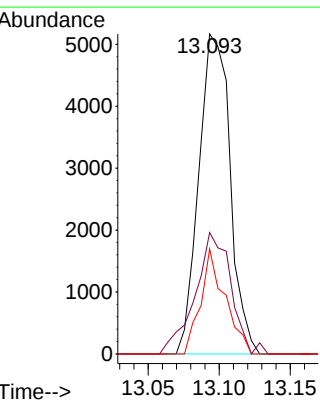
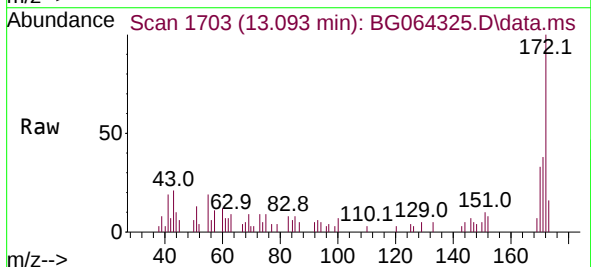
Reviewed By :Rahul Chavli 09/10/2025

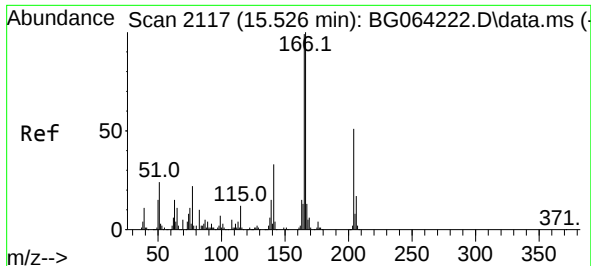
Supervised By :Jagrut Upadhyay 09/10/2025



#45
2-Fluorobiphenyl
Concen: 2.114 ng
RT: 13.093 min Scan# 1703
Delta R.T. -0.019 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

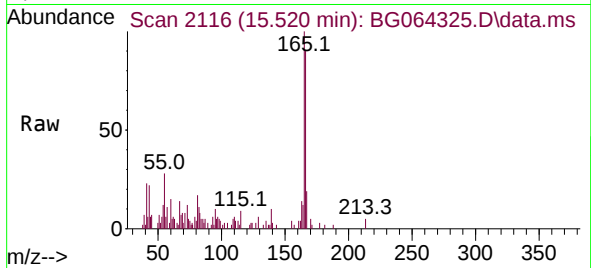
Tgt Ion:172 Resp: 7901
Ion Ratio Lower Upper
172 100
171 37.9 28.7 43.1
170 32.8 19.0 28.6





#58
 Fluorene
 Concen: 2.923 ng
 RT: 15.520 min Scan# 2117
 Delta R.T. -0.013 min
 Lab File: BG064325.D
 Acq: 9 Sep 2025 15:49

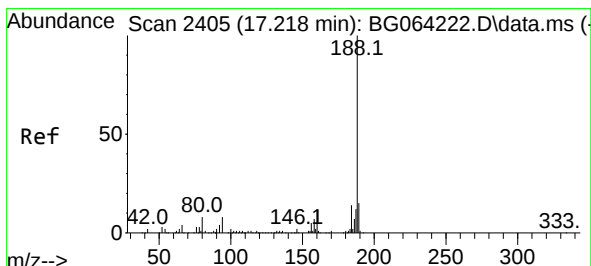
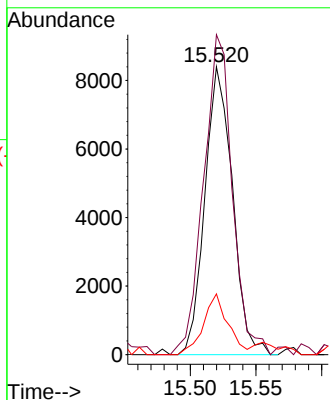
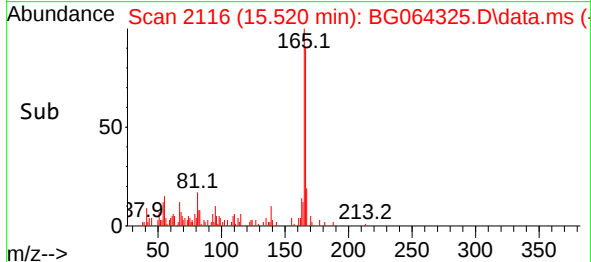
Instrument :
 BNA_G
 ClientSampleId :
 PL-01-09052025DL



Tgt Ion:166 Resp: 12280
 Ion Ratio Lower Upper
 166 100
 165 111.2 79.1 118.7
 167 21.1 10.2 15.4

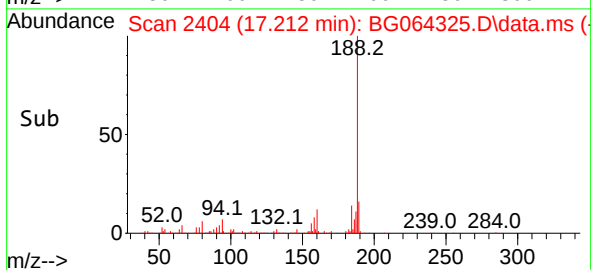
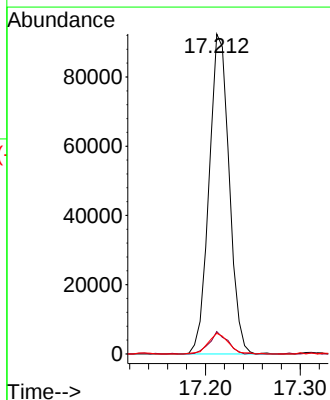
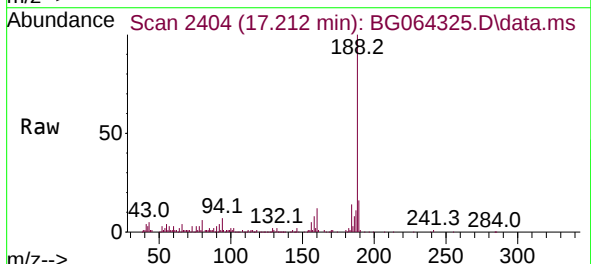
Manual Integrations
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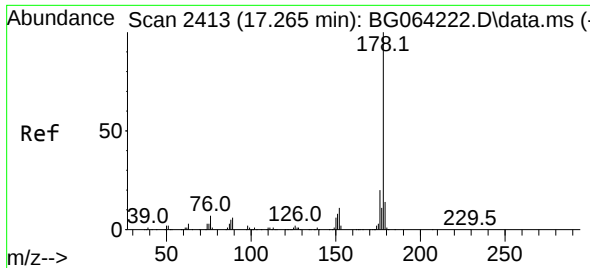
Reviewed By :Rahul Chavli 09/10/2025
 Supervised By :Jagrut Upadhyay 09/10/2025



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.212 min Scan# 2404
 Delta R.T. -0.013 min
 Lab File: BG064325.D
 Acq: 9 Sep 2025 15:49

Tgt Ion:188 Resp: 135981
 Ion Ratio Lower Upper
 188 100
 94 7.0 6.2 9.4
 80 6.4 6.8 10.2





#71
Phenanthrene
Concen: 22.579 ng
RT: 17.259 min Scan# 2413
Delta R.T. -0.007 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

Instrument :

BNA_G

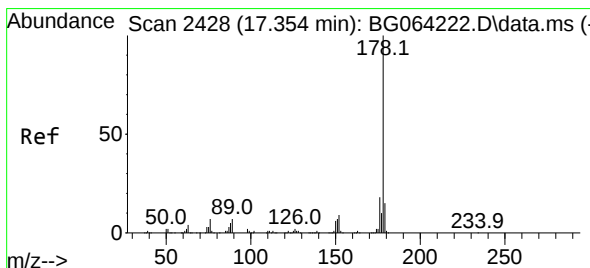
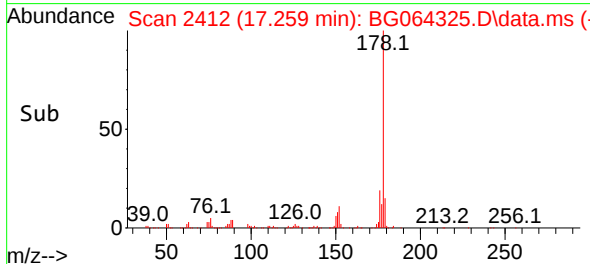
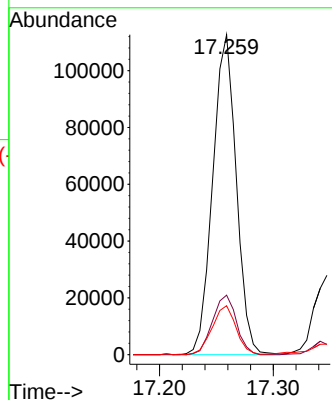
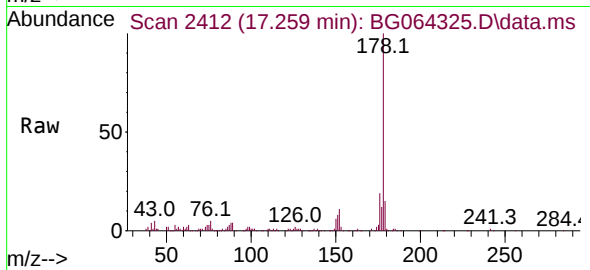
ClientSampleId :

PL-01-09052025DL

Tgt Ion:178 Resp: 161938
Ion Ratio Lower Upper
178 100
176 18.6 15.9 23.9
179 15.3 11.4 17.2

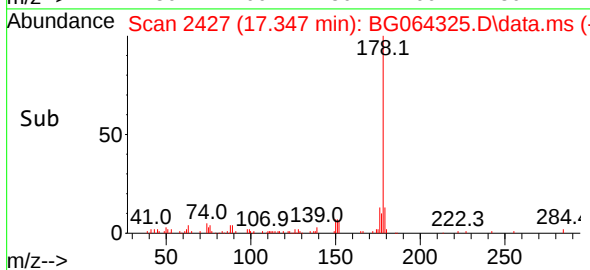
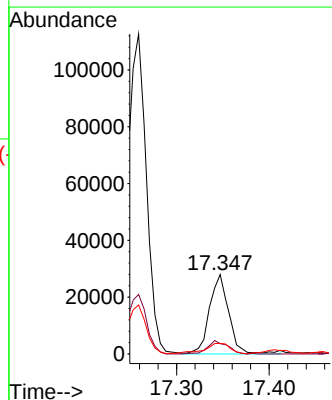
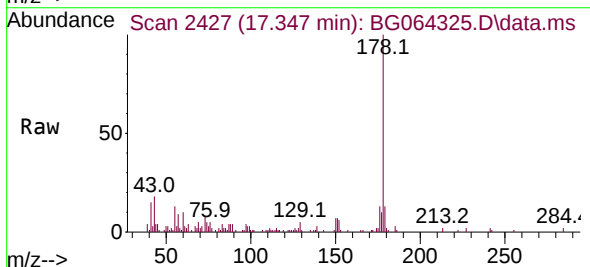
Manual Integrations
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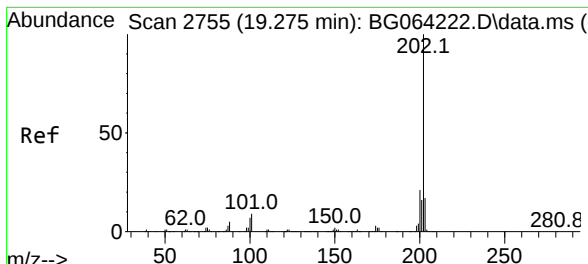
Reviewed By :Rahul Chavli 09/10/2025
Supervised By :Jagrut Upadhyay 09/10/2025



#72
Anthracene
Concen: 5.612 ng m
RT: 17.347 min Scan# 2427
Delta R.T. -0.013 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

Tgt Ion:178 Resp: 40946
Ion Ratio Lower Upper
178 100
176 12.9 14.7 22.1#
179 13.3 12.1 18.1





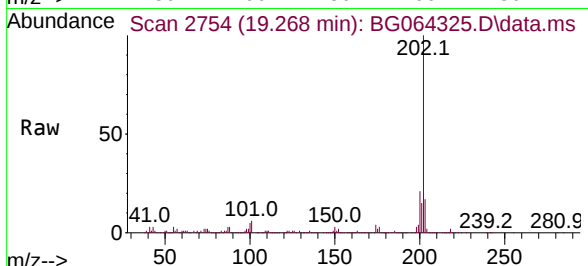
#75
 Fluoranthene
 Concen: 43.443 ng
 RT: 19.268 min Scan# 21
 Delta R.T. -0.007 min
 Lab File: BG064325.D
 Acq: 9 Sep 2025 15:49

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025DL



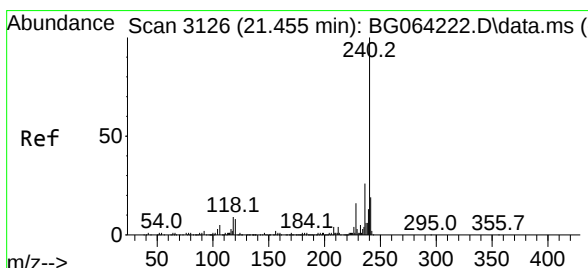
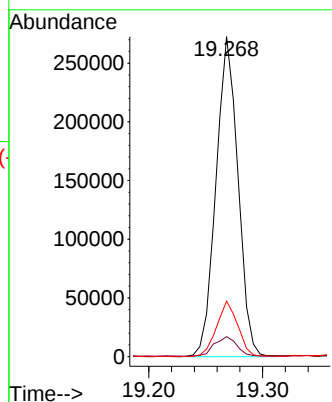
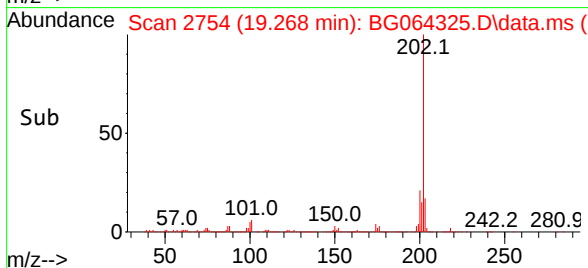
Tgt Ion:	202	Resp:	366354
Ion Ratio	Lower	Upper	
202	100		
101	6.2	0.0	28.7
203	17.3	0.0	36.9

Manual Integrations

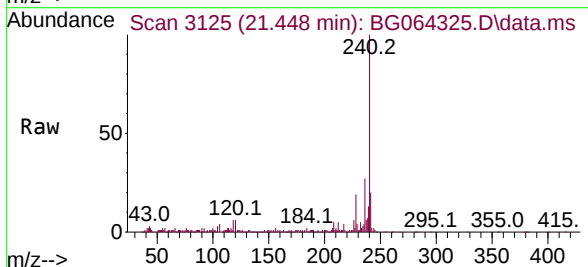
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Reviewed By :Rahul Chavli 09/10/2025

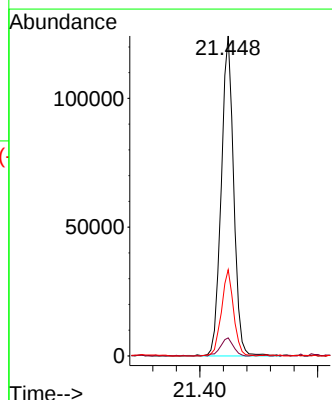
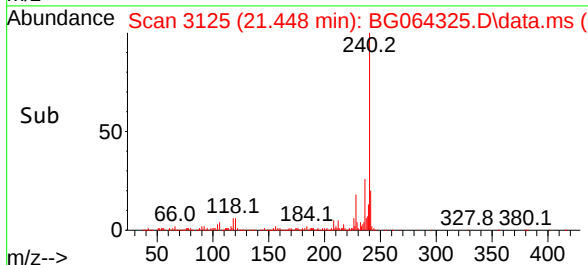
Supervised By :Jagrut Upadhyay 09/10/2025

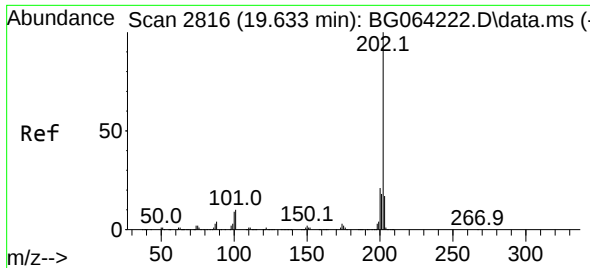


#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.448 min Scan# 3125
 Delta R.T. -0.007 min
 Lab File: BG064325.D
 Acq: 9 Sep 2025 15:49



Tgt Ion:	240	Resp:	182350
Ion Ratio	Lower	Upper	
240	100		
120	5.6	6.2	9.4#
236	26.9	20.5	30.7





#78
Pyrene
Concen: 27.485 ng
RT: 19.633 min Scan# 2816
Delta R.T. -0.007 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

Instrument :

BNA_G

ClientSampleId :

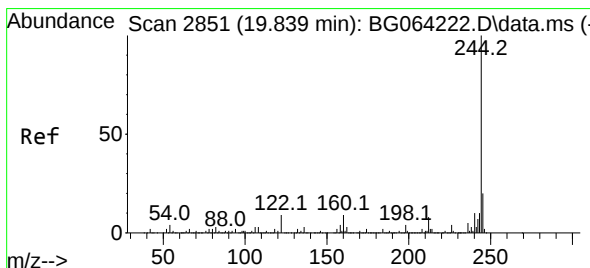
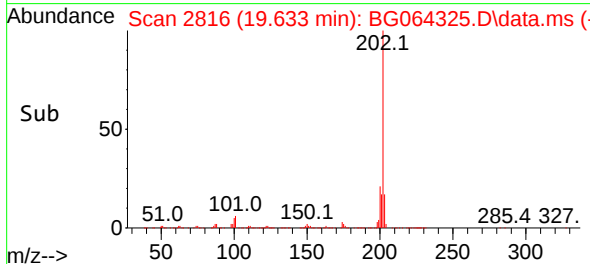
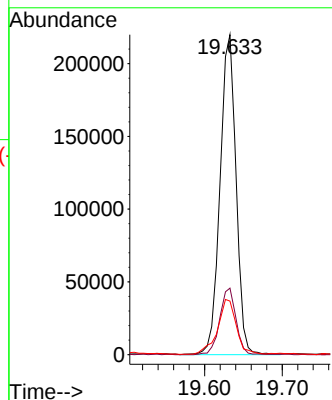
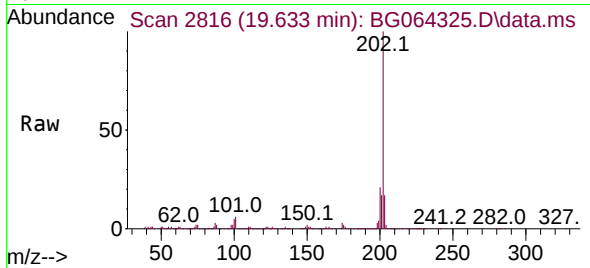
PL-01-09052025DL

Tgt Ion:202 Resp: 315759
Ion Ratio Lower Upper
202 100
200 20.8 16.9 25.3
203 16.7 13.8 20.8

Manual Integrations

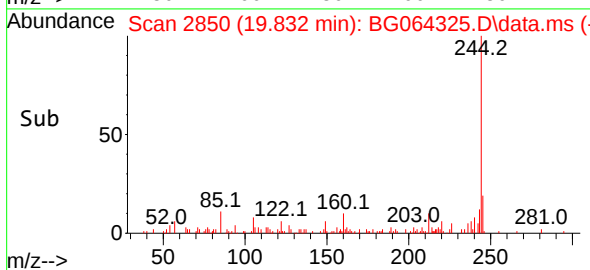
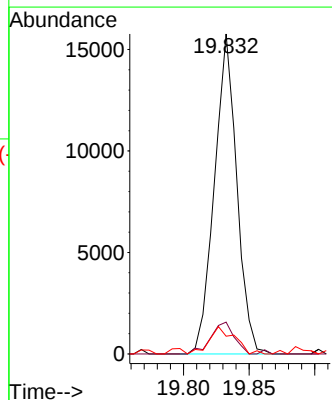
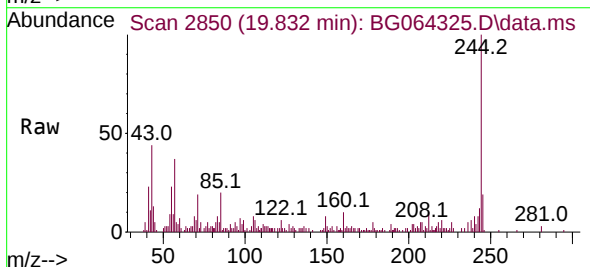
APPROVED

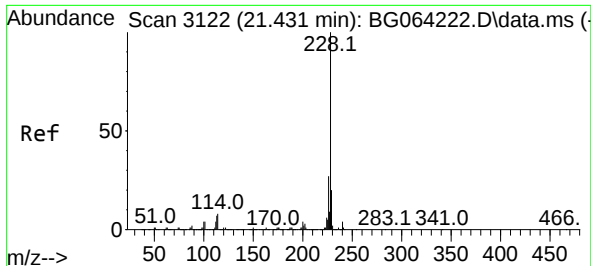
Reviewed By :Rahul Chavli 09/10/2025
Supervised By :Jagrut Upadhyay 09/10/2025



#79
Terphenyl-d14
Concen: 2.140 ng
RT: 19.832 min Scan# 2850
Delta R.T. -0.013 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

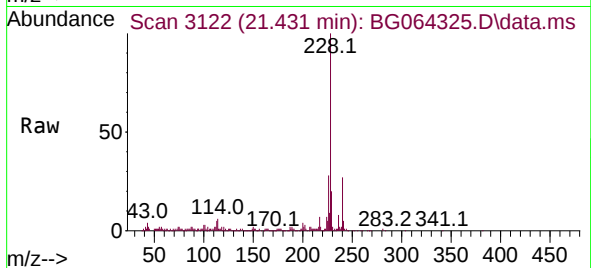
Tgt Ion:244 Resp: 18707
Ion Ratio Lower Upper
244 100
212 9.9 6.6 10.0
122 5.5 7.0 10.6





#81
Benzo(a)anthracene
Concen: 16.716 ng
RT: 21.431 min Scan# 3122
Delta R.T. -0.007 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

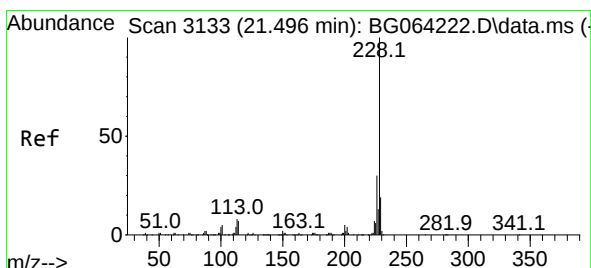
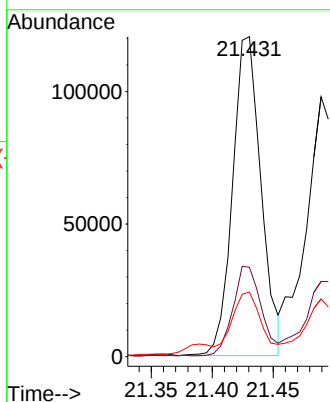
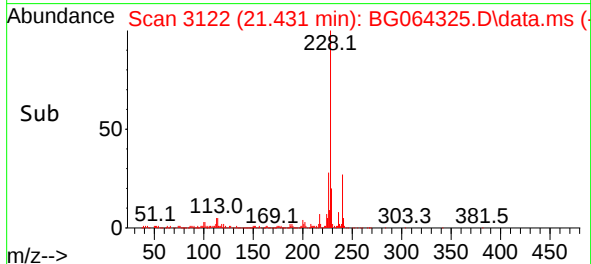
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025DL



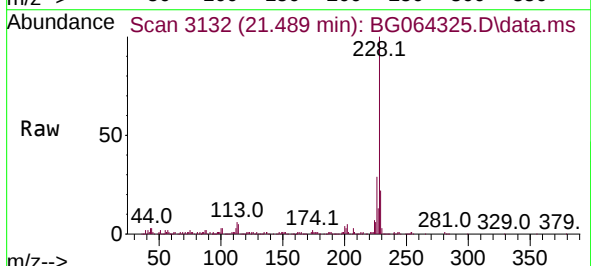
Tgt Ion:228 Resp: 195003
Ion Ratio Lower Upper
228 100
226 27.9 21.7 32.5
229 20.2 15.9 23.9

Manual Integrations
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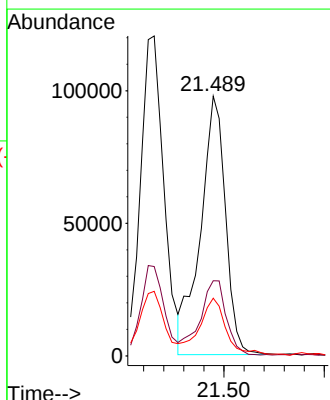
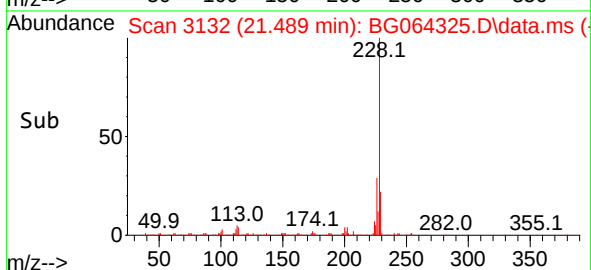
Reviewed By :Rahul Chavli 09/10/2025
Supervised By :Jagrut Upadhyay 09/10/2025

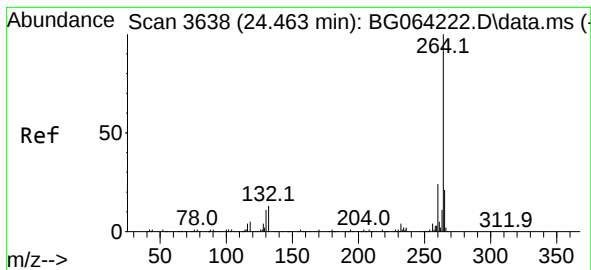


#83
Chrysene
Concen: 15.098 ng
RT: 21.489 min Scan# 3132
Delta R.T. -0.013 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49



Tgt Ion:228 Resp: 169094
Ion Ratio Lower Upper
228 100
226 28.9 24.2 36.2
229 22.2 15.4 23.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.456 min Scan# 30

Delta R.T. -0.007 min

Lab File: BG064325.D

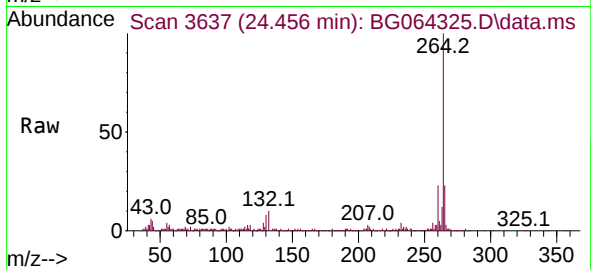
Acq: 9 Sep 2025 15:49

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025DL



Tgt Ion:264 Resp: 207624

Ion Ratio Lower Upper

264 100

260 22.9 18.9 28.3

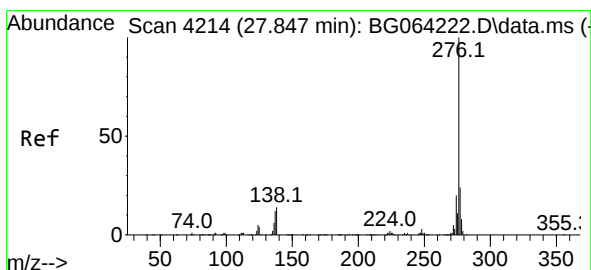
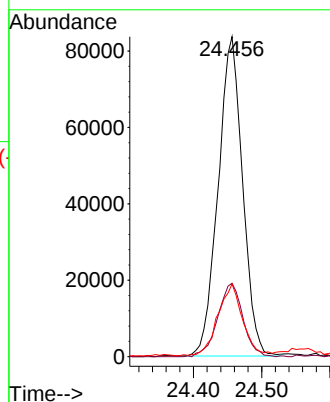
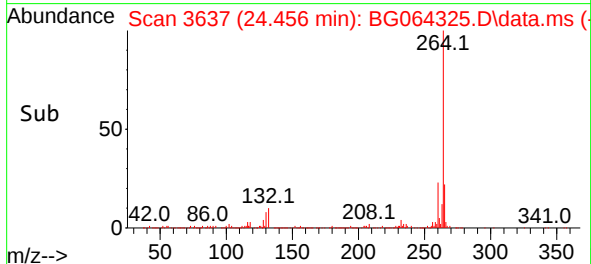
265 22.7 16.7 25.1

Manual Integrations

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Reviewed By :Rahul Chavli 09/10/2025

Supervised By :Jagrut Upadhyay 09/10/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.285 ng

RT: 27.829 min Scan# 4211

Delta R.T. -0.042 min

Lab File: BG064325.D

Acq: 9 Sep 2025 15:49

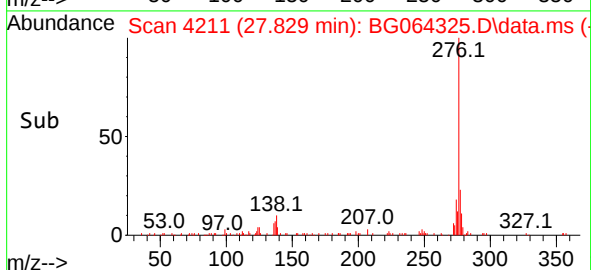
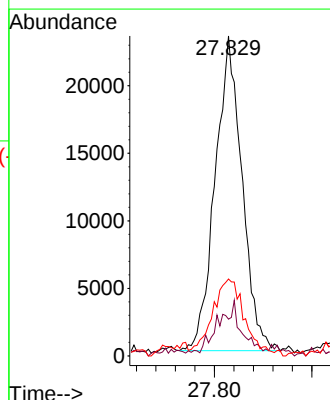
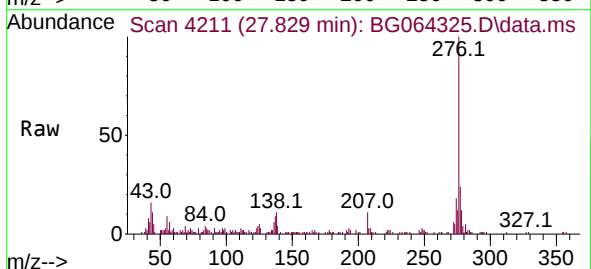
Tgt Ion:276 Resp: 89117

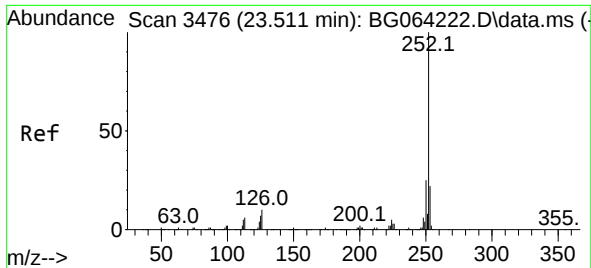
Ion Ratio Lower Upper

276 100

138 14.4 7.4 11.0#

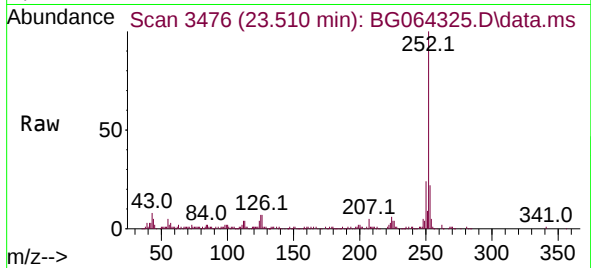
277 26.3 20.5 30.7





#88
Benzo(b)fluoranthene
Concen: 18.033 ng
RT: 23.510 min Scan# 3476
Delta R.T. -0.007 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

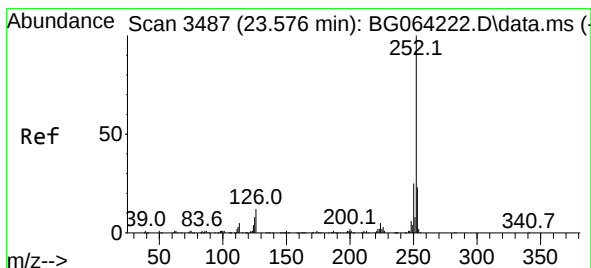
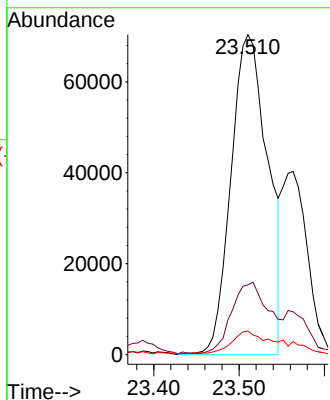
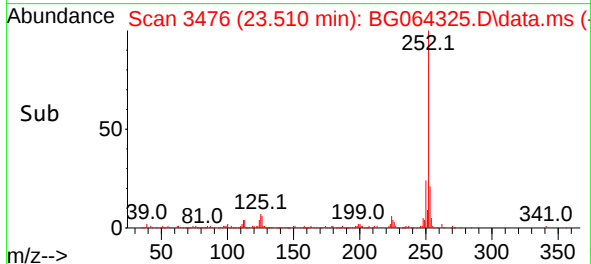
Instrument :
BNA_G
ClientSampleId :
PL-01-09052025DL



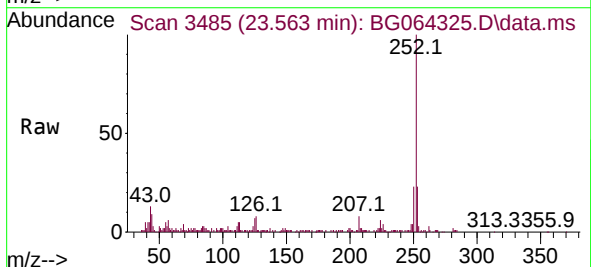
Tgt Ion:252 Resp: 211317
Ion Ratio Lower Upper
252 100
253 21.8 17.5 26.3
125 7.4 5.9 8.9

Manual Integrations
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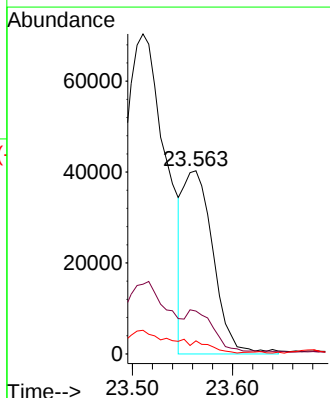
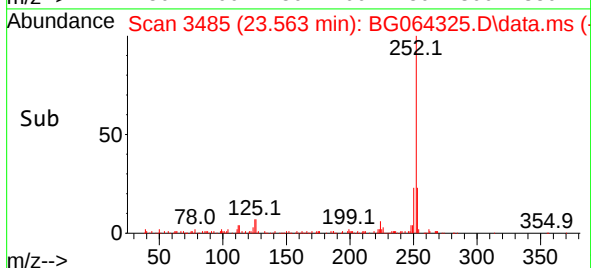
Reviewed By :Rahul Chavli 09/10/2025
Supervised By :Jagrut Upadhyay 09/10/2025

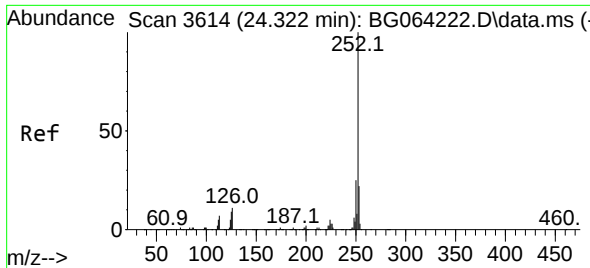


#89
Benzo(k)fluoranthene
Concen: 7.025 ng m
RT: 23.563 min Scan# 3485
Delta R.T. -0.024 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49



Tgt Ion:252 Resp: 83869
Ion Ratio Lower Upper
252 100
253 23.3 18.2 27.4
125 7.2 7.0 10.4





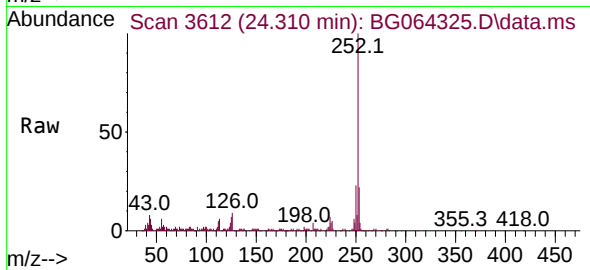
#90
Benzo(a)pyrene
Concen: 14.305 ng m
RT: 24.310 min Scan# 30
Delta R.T. -0.019 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025DL



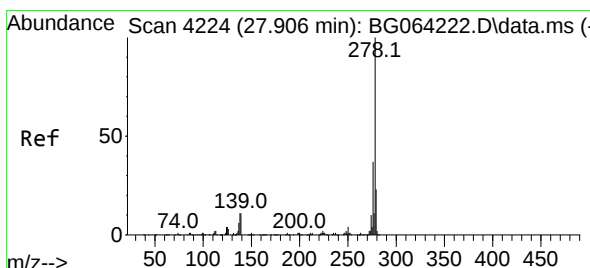
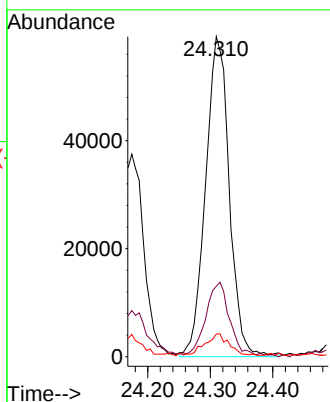
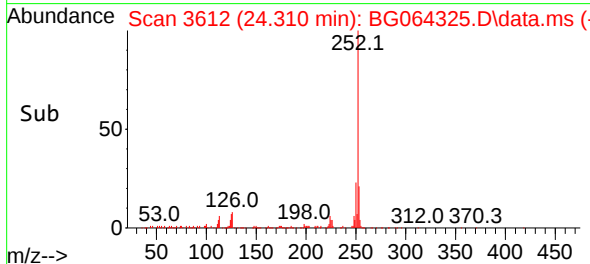
Tgt Ion:252 Resp: 155930
Ion Ratio Lower Upper
252 100
253 22.0 17.4 26.2
125 7.0 7.0 10.6

Manual Integrations

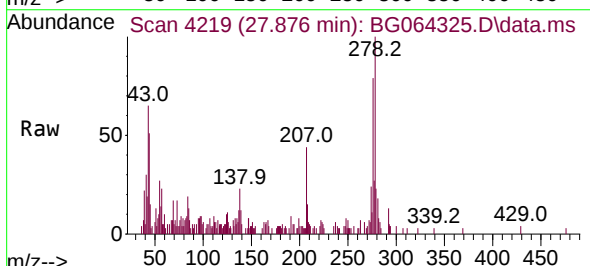
APPROVED

Reviewed By :Rahul Chavli 09/10/2025

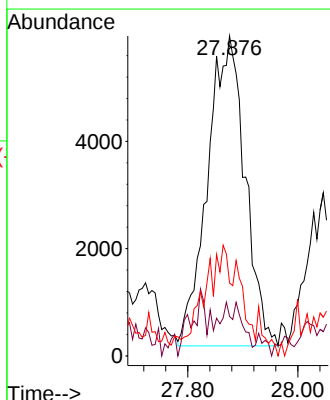
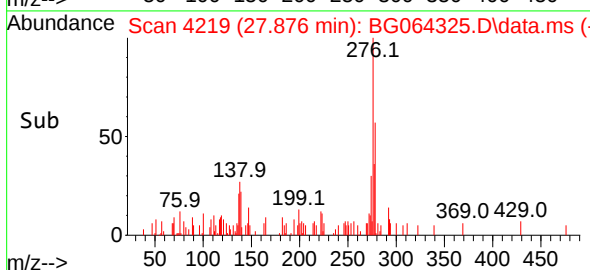
Supervised By :Jagrut Upadhyay 09/10/2025

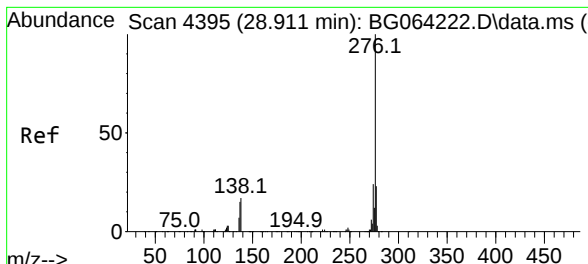


#91
Dibenzo(a,h)anthracene
Concen: 2.393 ng
RT: 27.876 min Scan# 4219
Delta R.T. -0.048 min
Lab File: BG064325.D
Acq: 9 Sep 2025 15:49



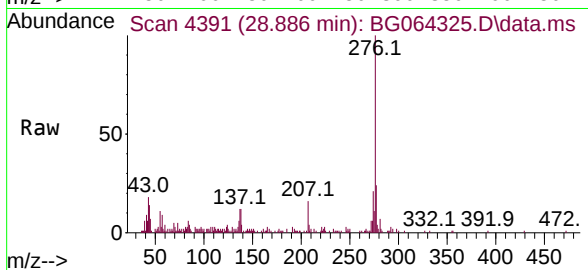
Tgt Ion:278 Resp: 27246
Ion Ratio Lower Upper
278 100
139 12.3 9.0 13.4
279 22.8 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 7.673 ng
 RT: 28.886 min Scan# 4391
 Delta R.T. -0.048 min
 Lab File: BG064325.D
 Acq: 9 Sep 2025 15:49

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-09052025DL



Tgt Ion:	276	Resp:	8500
Ion Ratio	Lower	Upper	
276	100		
277	24.0	18.2	27.4
138	15.9	13.3	19.9

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/10/2025
 Supervised By :Jagrut Upadhyay 09/10/2025

