

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090225\
 Data File : BG064246.D
 Acq On : 2 Sep 2025 15:25
 Operator : RC/JU
 Sample : Q2994-01 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PAULDING-WC1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/03/2025
 Supervised By :Jagrut Upadhyay 09/03/2025

Quant Time: Sep 02 16:10:09 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	7.859	152	40905	20.000	ng	0.00
21) Naphthalene-d8	10.644	136	176725	20.000	ng	0.00
39) Acenaphthene-d10	14.481	164	119490	20.000	ng	0.00
64) Phenanthrene-d10	17.219	188	260040	20.000	ng	0.00
76) Chrysene-d12	21.449	240	246986	20.000	ng	0.00
86) Perylene-d12	24.458	264	279572	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	50400	22.105	ng	0.00
7) Phenol-d6	7.025	99	69195	22.091	ng	0.00
23) Nitrobenzene-d5	9.005	82	43341	13.677	ng	-0.01
42) 2,4,6-Tribromophenol	15.968	330	32714	20.670	ng	0.00
45) 2-Fluorobiphenyl	13.106	172	111548	14.249	ng	0.00
79) Terphenyl-d14	19.840	244	178457	15.075	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.260	178	38966	2.841	ng	99
75) Fluoranthene	19.275	202	154788	9.598	ng	98
78) Pyrene	19.634	202	189193	12.159	ng	99
81) Benzo(a)anthracene	21.432	228	98332	6.223	ng	99
83) Chrysene	21.491	228	90798	5.986	ng	99
87) Indeno(1,2,3-cd)pyrene	27.842	276	65578	3.435	ng	99
88) Benzo(b)fluoranthene	23.512	252	122478	7.762	ng	# 96
89) Benzo(k)fluoranthene	23.565	252	44965m	2.797	ng	
90) Benzo(a)pyrene	24.317	252	100177	6.825	ng	# 93
92) Benzo(g,h,i)perylene	28.905	276	66518	4.459	ng	# 93

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

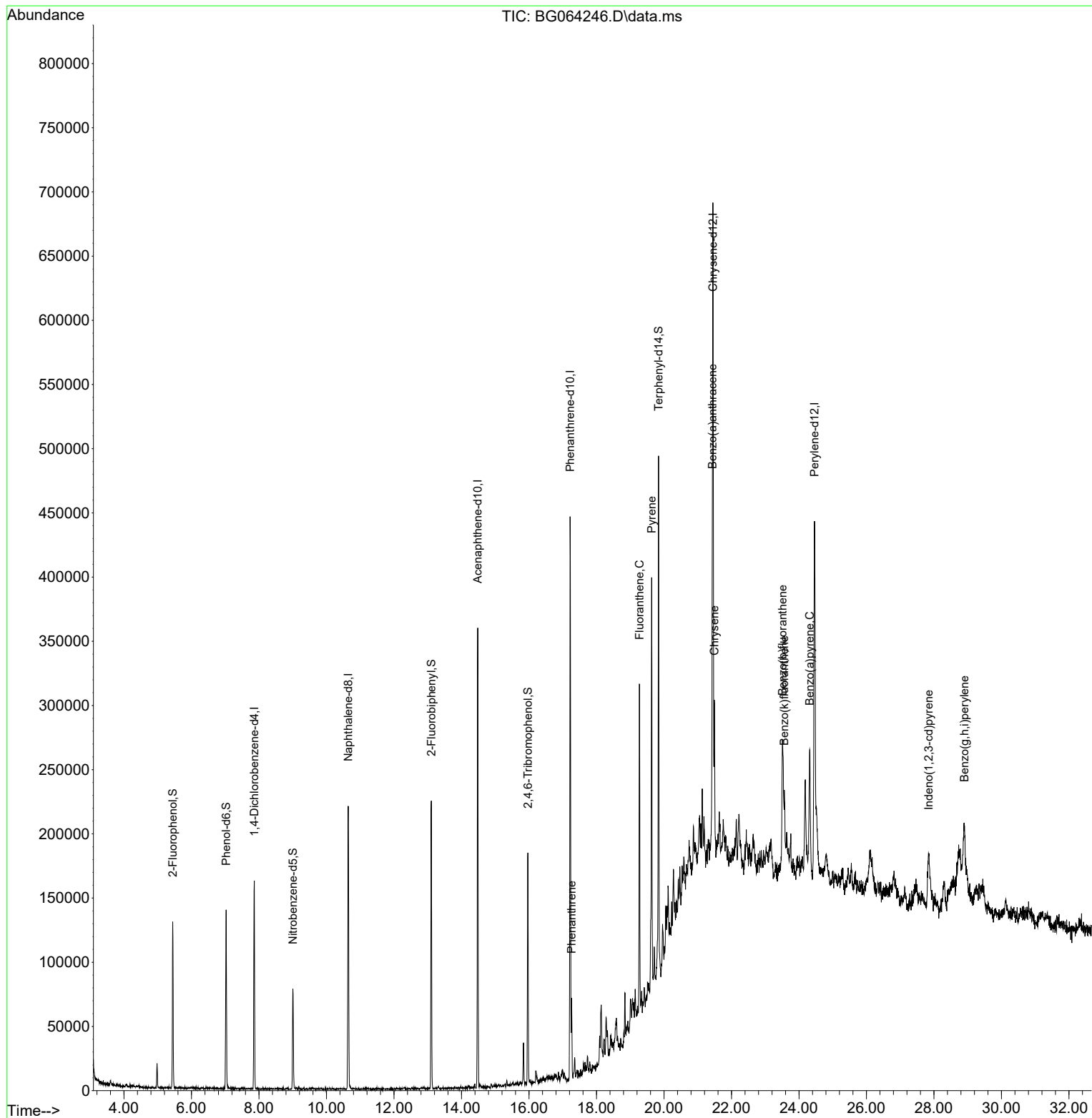
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Data File : BG064246.D
Acq On : 2 Sep 2025 15:25
Operator : RC/JU
Sample : Q2994-01 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

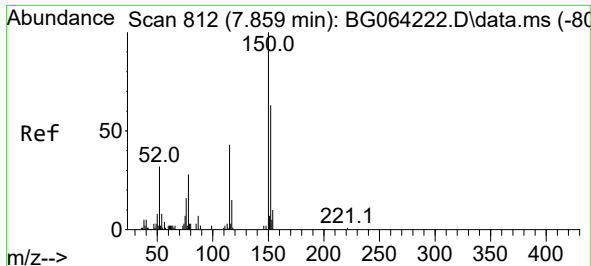
Instrument :
BNA_G
ClientSampleId :
PAULDING-WC1

Quant Time: Sep 02 16:10:09 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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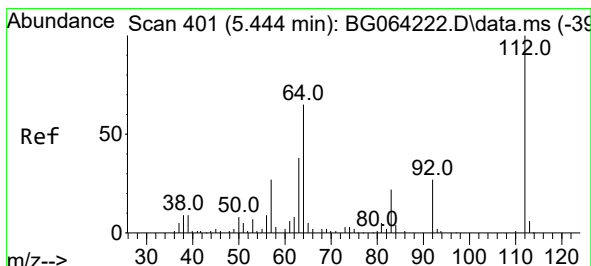
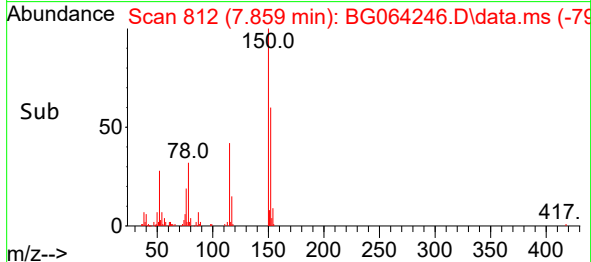
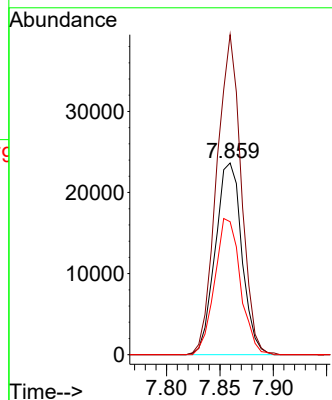
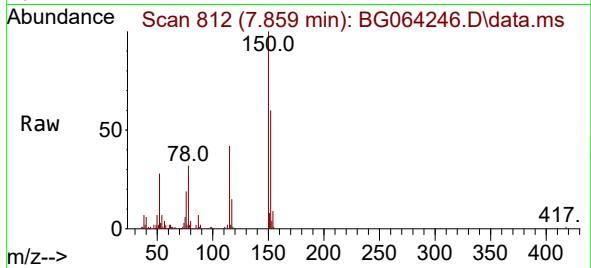
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.859 min Scan# 812
Delta R.T. 0.000 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Instrument :
BNA_G
ClientSampleId :
PAULDING-WC1

Tgt Ion:152 Resp: 4090
Ion Ratio Lower Upper
152 100
150 166.9 128.0 192.0
115 69.3 55.7 83.5

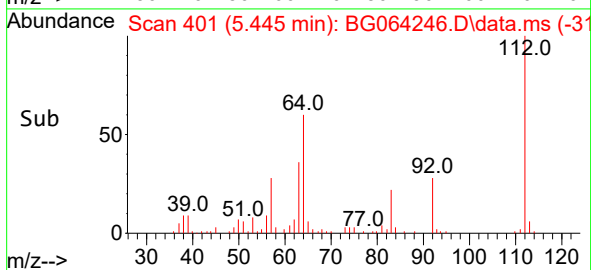
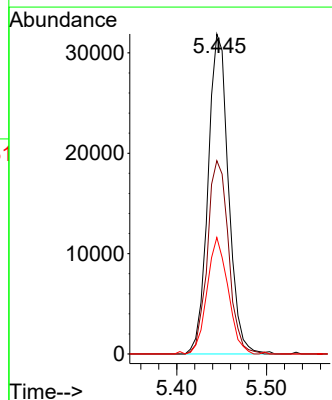
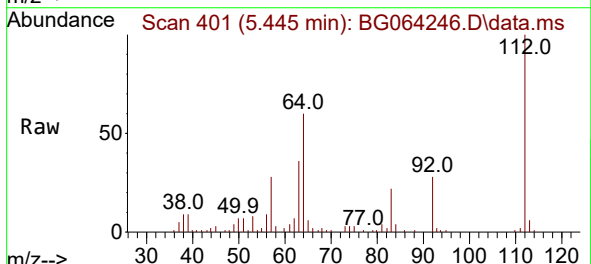
Manual Integrations
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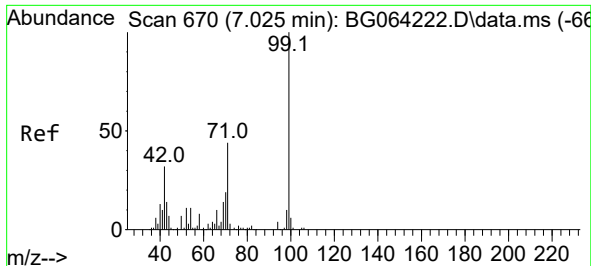
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Supervised By :Jagrut Upadhyay 09/03/2025



#5
2-Fluorophenol
Concen: 22.105 ng
RT: 5.445 min Scan# 401
Delta R.T. 0.000 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Tgt Ion:112 Resp: 50400
Ion Ratio Lower Upper
112 100
64 60.4 51.8 77.6
63 36.4 30.6 45.8





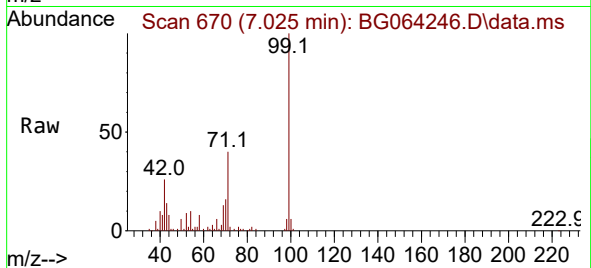
#7
Phenol-d6
Concen: 22.091 ng
RT: 7.025 min Scan# 61
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

PAULDING-WC1



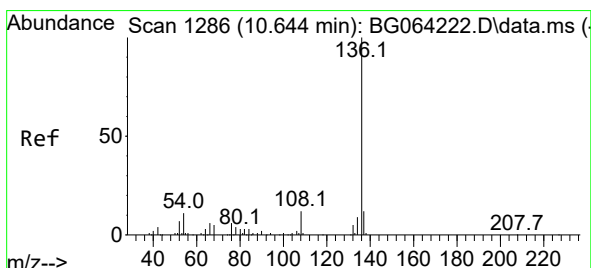
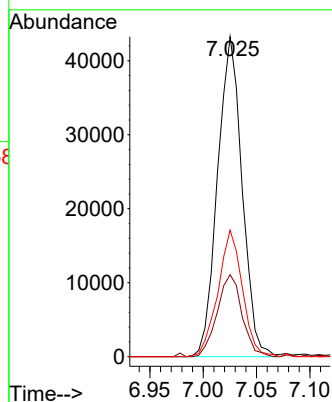
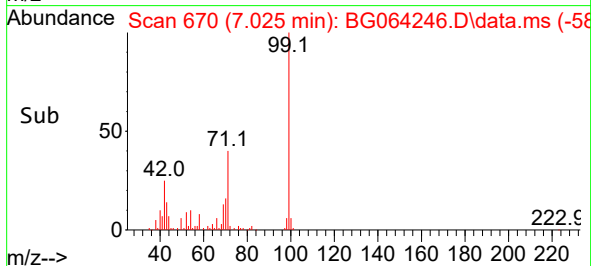
Tgt Ion: 99 Resp: 6919
Ion Ratio Lower Upper
99 100
42 25.6 25.8 38.8
71 39.6 35.2 52.8

Manual Integrations

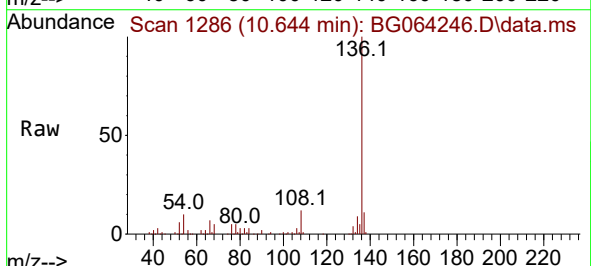
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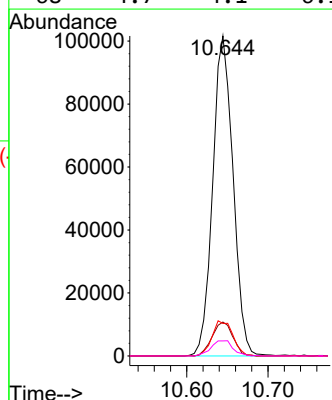
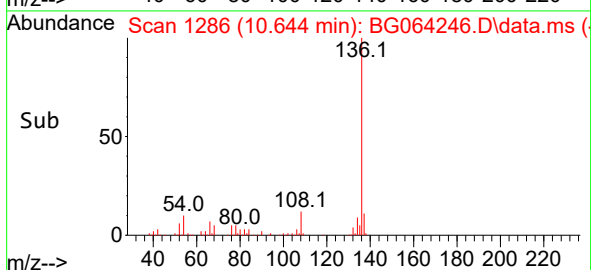
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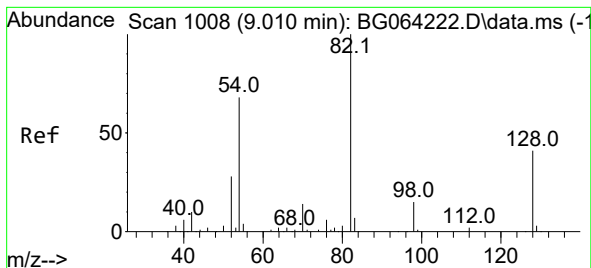


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.644 min Scan# 1286
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25



Tgt Ion:136 Resp: 176725
Ion Ratio Lower Upper
136 100
137 10.6 9.6 14.4
54 10.2 8.8 13.2
68 4.7 4.1 6.1





#23
Nitrobenzene-d5
Concen: 13.677 ng
RT: 9.005 min Scan# 1007
Delta R.T. -0.011 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

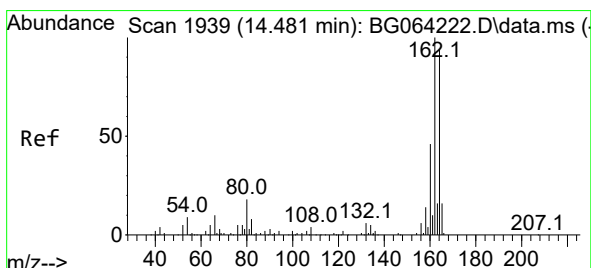
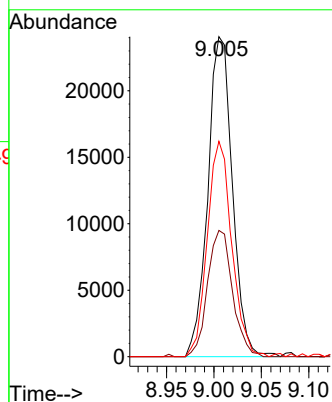
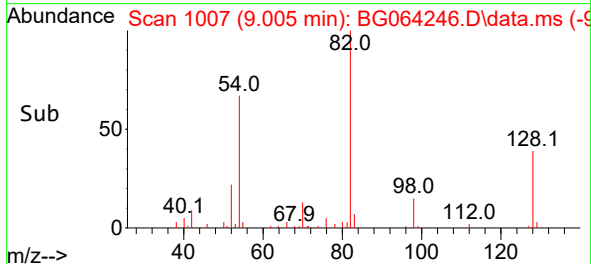
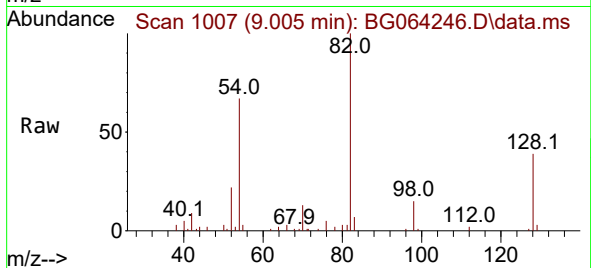
PAULDING-WC1

Tgt Ion: 82 Resp: 4334
Ion Ratio Lower Upper
82 100
128 39.5 32.6 48.8
54 67.3 54.7 82.1

Manual Integrations

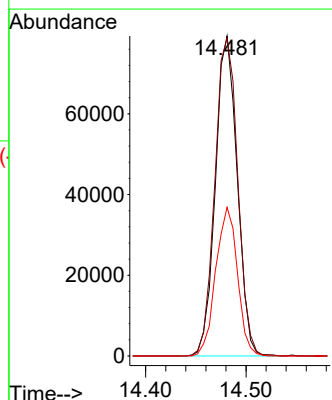
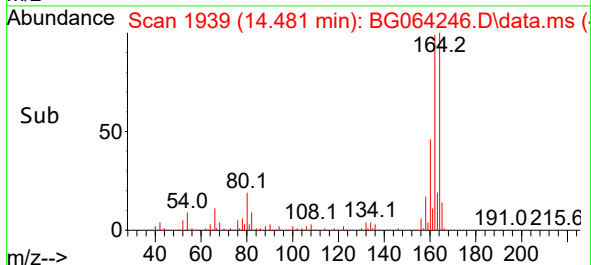
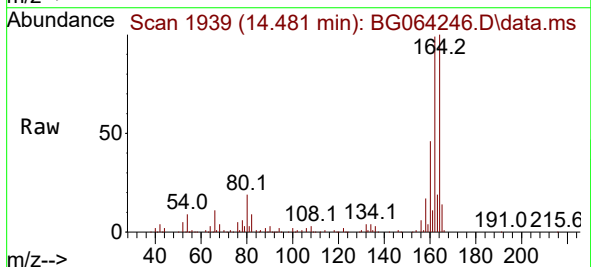
APPROVED

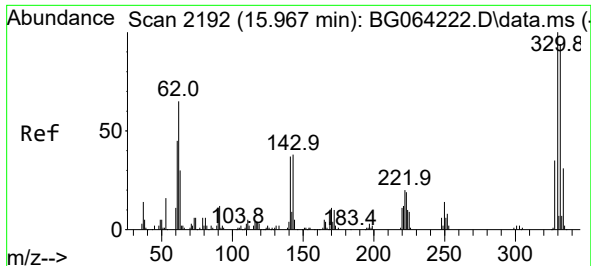
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.481 min Scan# 1939
Delta R.T. 0.000 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Tgt Ion:164 Resp: 119490
Ion Ratio Lower Upper
164 100
162 99.3 85.4 128.0
160 46.5 39.2 58.8





#42
2,4,6-Tribromophenol
Concen: 20.670 ng
RT: 15.968 min Scan# 2192
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

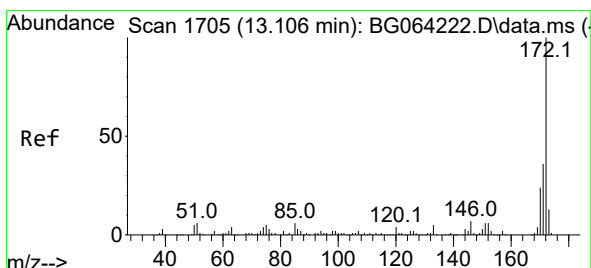
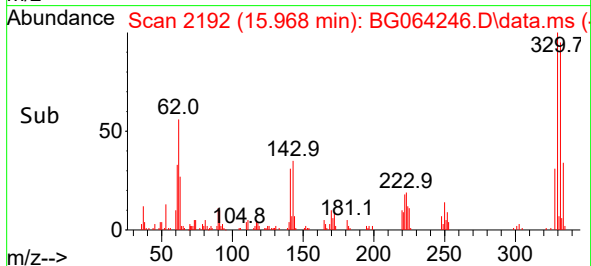
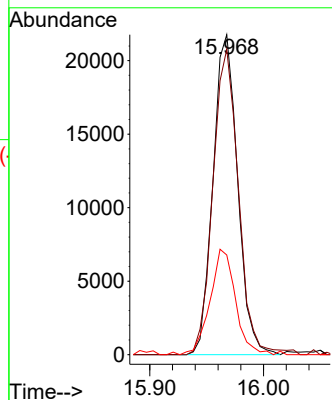
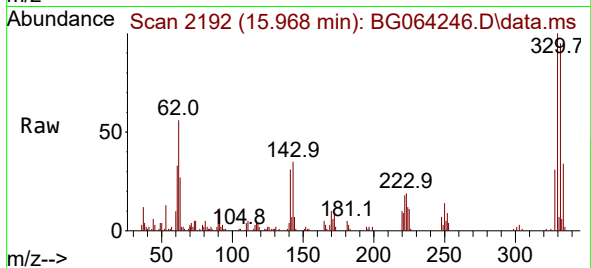
PAULDING-WC1

Tgt Ion:330 Resp: 32714
Ion Ratio Lower Upper
330 100
332 99.3 77.6 116.4
141 34.4 29.8 44.6

Manual Integrations

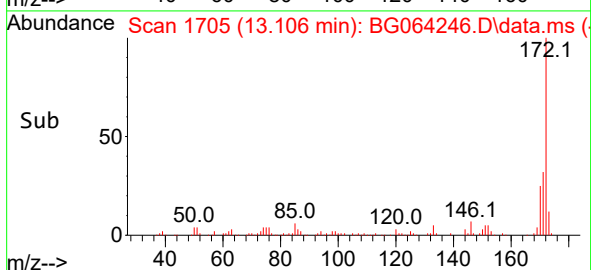
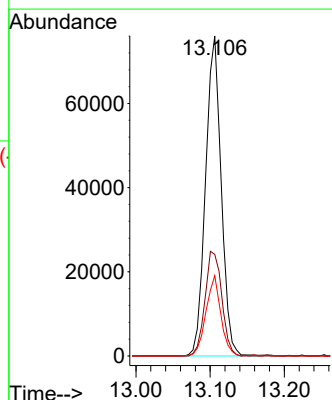
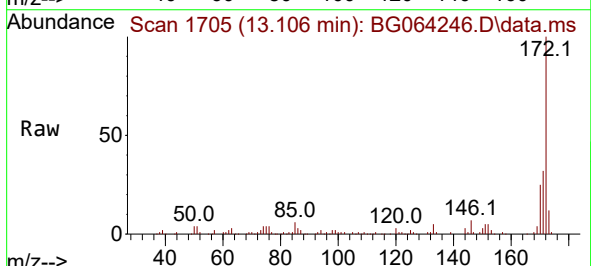
APPROVED

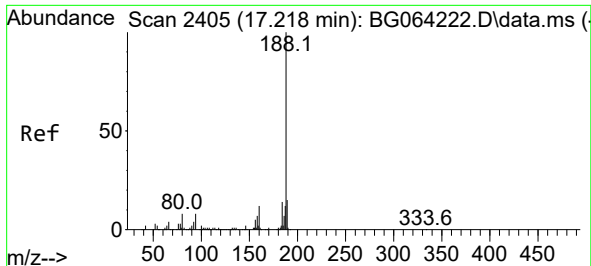
Reviewed By :Rahul Chavli 09/03/2025
Supervised By :Jagrut Upadhyay 09/03/2025



#45
2-Fluorobiphenyl
Concen: 14.249 ng
RT: 13.106 min Scan# 1705
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Tgt Ion:172 Resp: 111548
Ion Ratio Lower Upper
172 100
171 31.8 28.7 43.1
170 25.1 19.0 28.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.219 min Scan# 2405
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

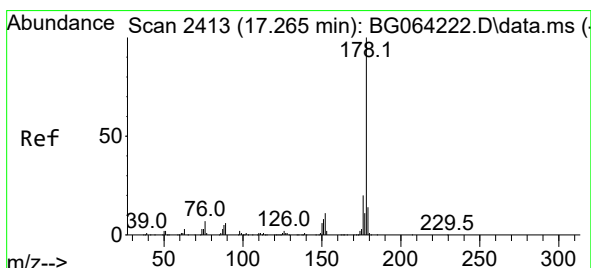
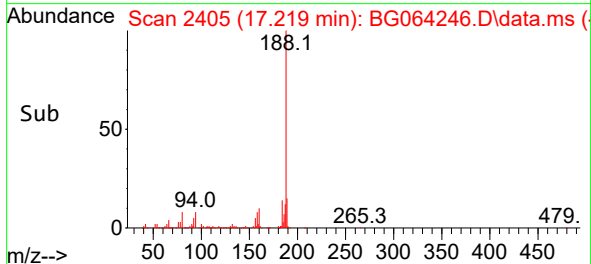
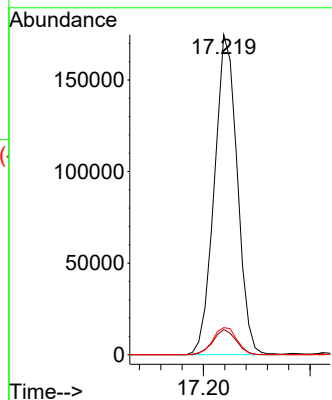
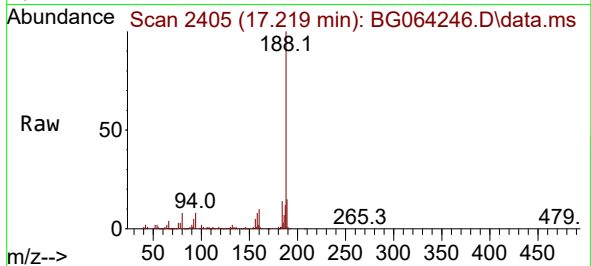
PAULDING-WC1

Tgt Ion:188 Resp: 260040
Ion Ratio Lower Upper
188 100
94 7.9 6.2 9.4
80 8.5 6.8 10.2

Manual Integrations

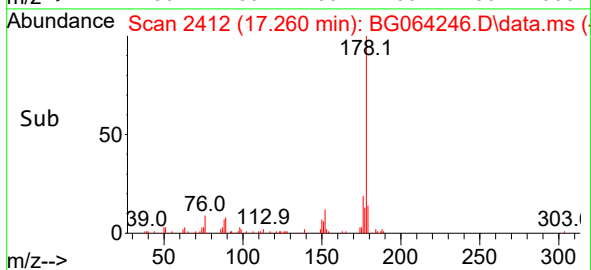
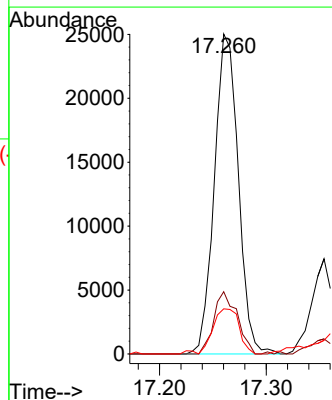
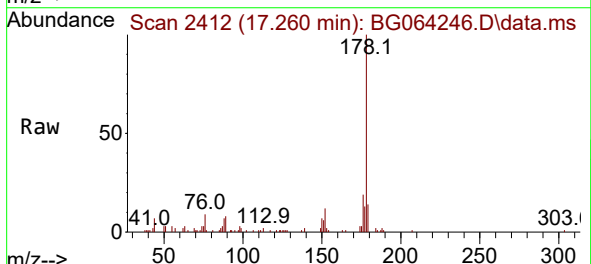
APPROVED

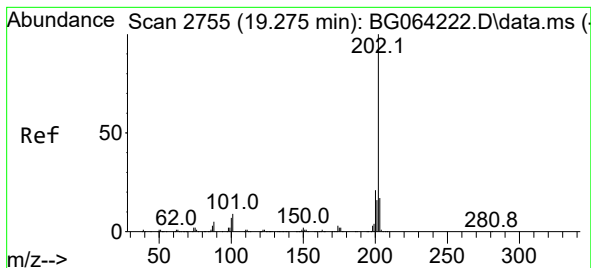
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Supervised By :Jagrut Upadhyay 09/03/2025



#71
Phenanthrene
Concen: 2.841 ng
RT: 17.260 min Scan# 2412
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Tgt Ion:178 Resp: 38966
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 14.1 11.4 17.2





#75

Fluoranthene

Concen: 9.598 ng

RT: 19.275 min Scan# 21

Delta R.T. 0.000 min

Lab File: BG064246.D

Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

PAULDING-WC1

Tgt Ion:202 Resp: 15478

Ion Ratio Lower Upper

202 100

101 8.9 0.0 28.7

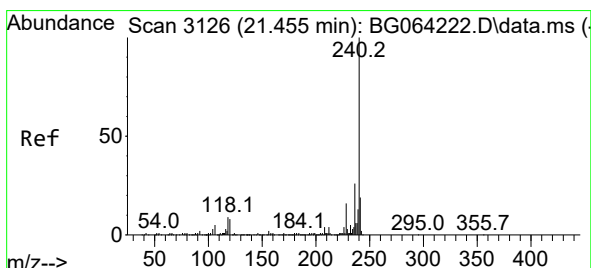
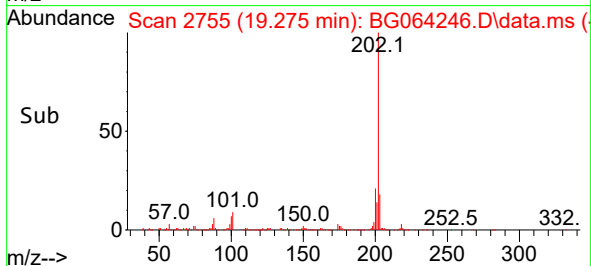
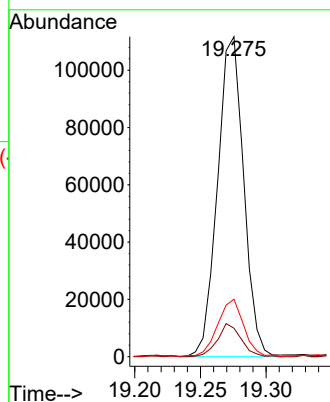
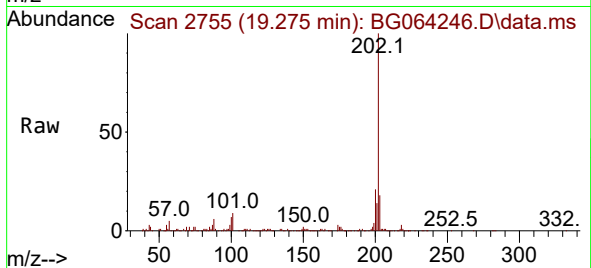
203 17.9 0.0 36.9

Manual Integrations

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Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.449 min Scan# 3125

Delta R.T. -0.006 min

Lab File: BG064246.D

Acq: 2 Sep 2025 15:25

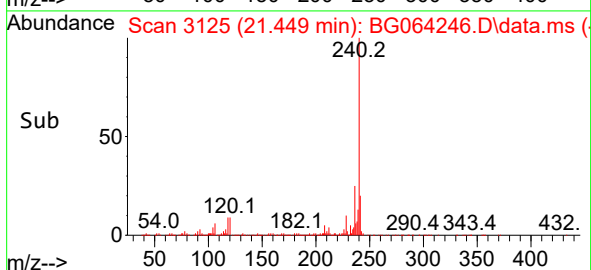
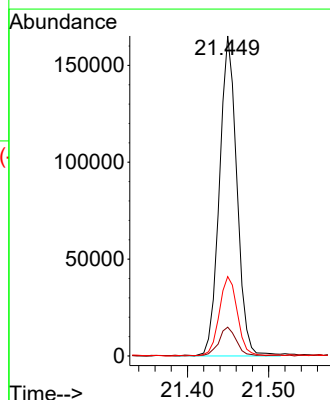
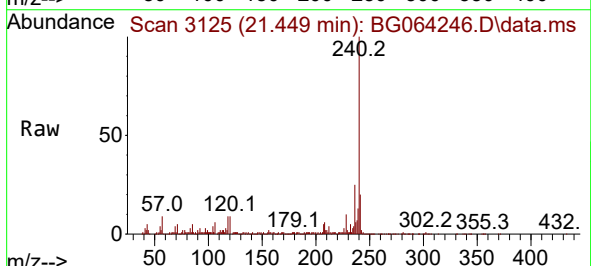
Tgt Ion:240 Resp: 246986

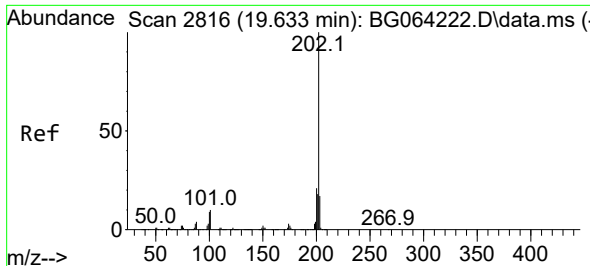
Ion Ratio Lower Upper

240 100

120 9.0 6.2 9.4

236 24.8 20.5 30.7





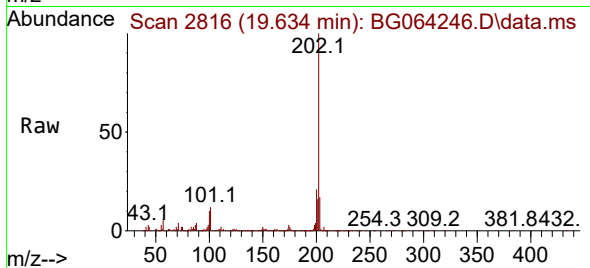
#78
Pyrene
Concen: 12.159 ng
RT: 19.634 min Scan# 2816
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

PAULDING-WC1



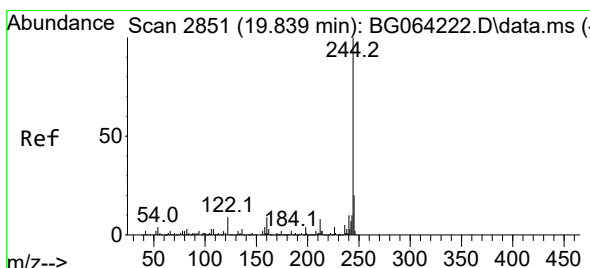
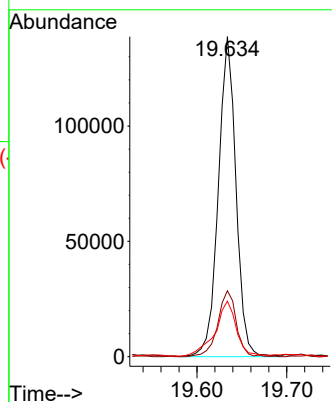
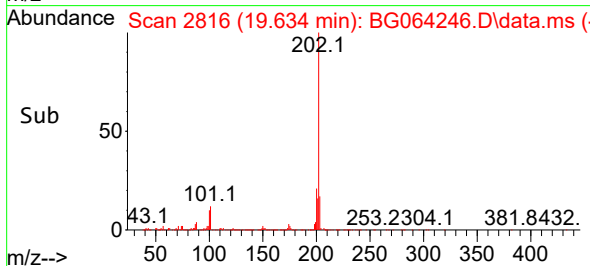
Tgt Ion:202 Resp: 18919
Ion Ratio Lower Upper
202 100
200 20.6 16.9 25.3
203 17.3 13.8 20.8

Manual Integrations

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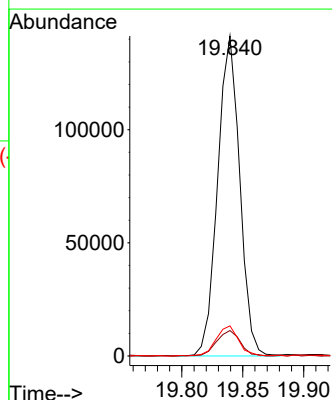
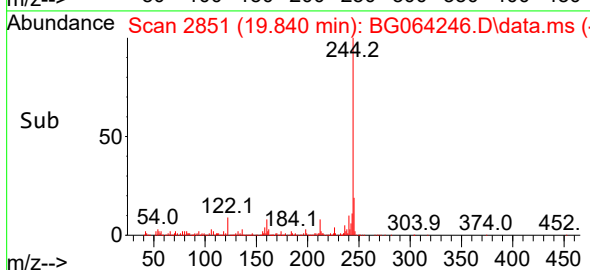
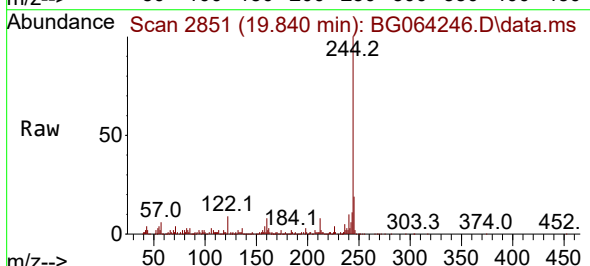
Reviewed By :Rahul Chavli 09/03/2025

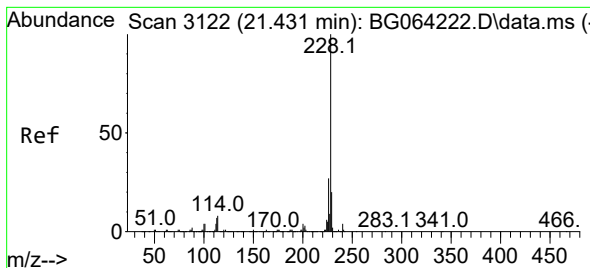
Supervised By :Jagrut Upadhyay 09/03/2025



#79
Terphenyl-d14
Concen: 15.075 ng
RT: 19.840 min Scan# 2851
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Tgt Ion:244 Resp: 178457
Ion Ratio Lower Upper
244 100
212 8.0 6.6 10.0
122 9.4 7.0 10.6





#81

Benzo(a)anthracene

Concen: 6.223 ng

RT: 21.432 min Scan# 3122

Delta R.T. -0.006 min

Lab File: BG064246.D

Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

PAULDING-WC1

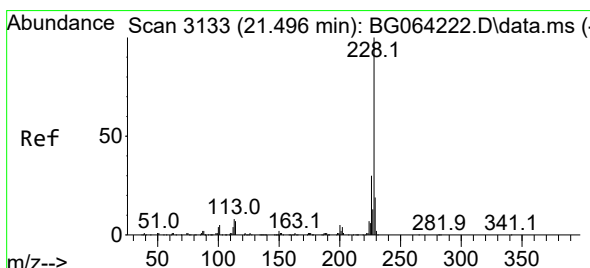
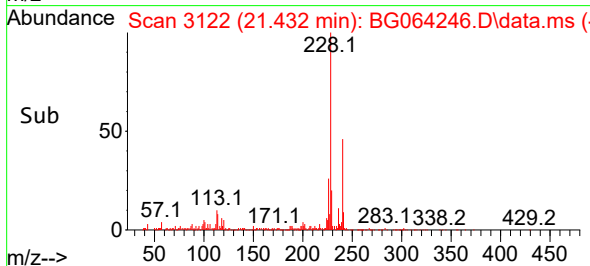
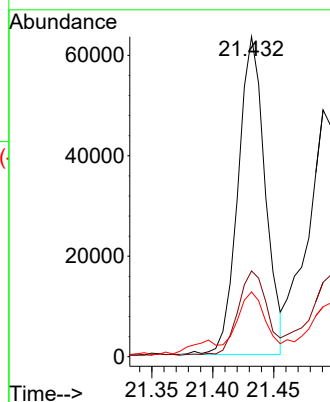
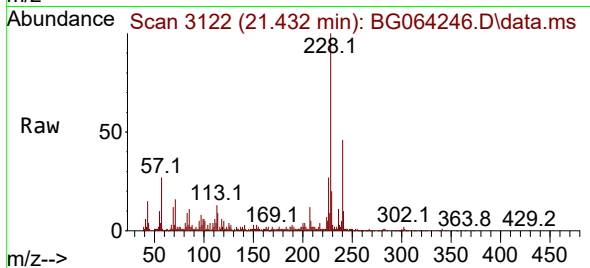
Tgt Ion:	228	Resp:	9833
Ion Ratio	Lower	Upper	
228	100		
226	26.8	21.7	32.5
229	20.3	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#83

Chrysene

Concen: 5.986 ng

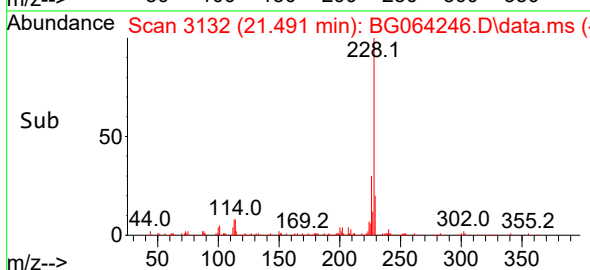
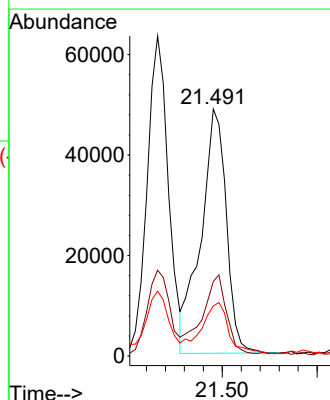
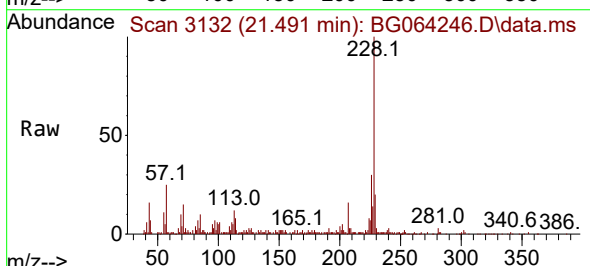
RT: 21.491 min Scan# 3132

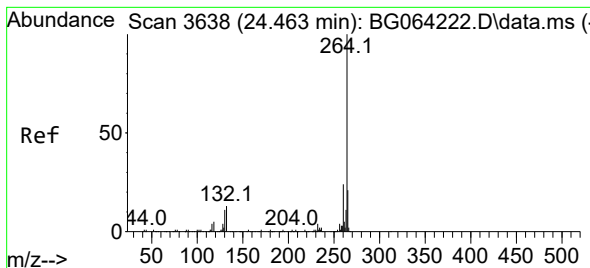
Delta R.T. -0.011 min

Lab File: BG064246.D

Acq: 2 Sep 2025 15:25

Tgt Ion:	228	Resp:	90798
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.2	36.2
229	20.2	15.4	23.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.458 min Scan# 30

Delta R.T. -0.006 min

Lab File: BG064246.D

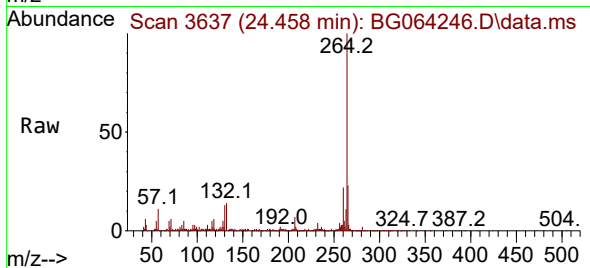
Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

PAULDING-WC1



Tgt Ion:264 Resp: 279572

Ion Ratio Lower Upper

264 100

260 21.9 18.9 28.3

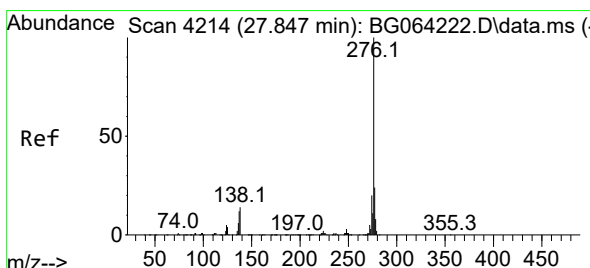
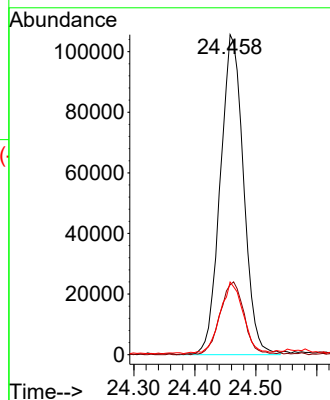
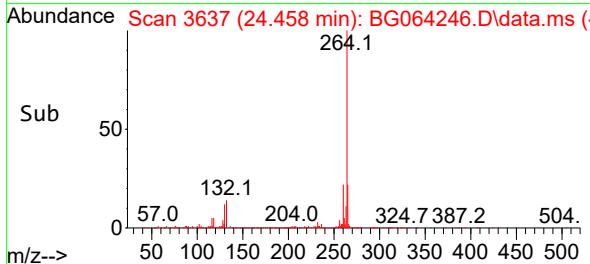
265 22.7 16.7 25.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.435 ng

RT: 27.842 min Scan# 4213

Delta R.T. -0.029 min

Lab File: BG064246.D

Acq: 2 Sep 2025 15:25

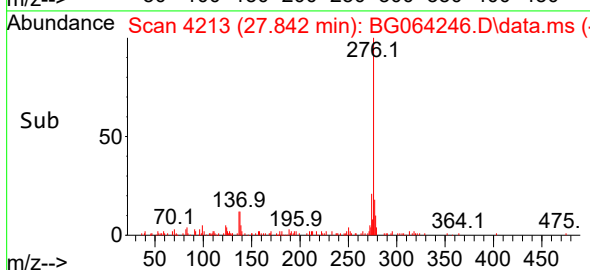
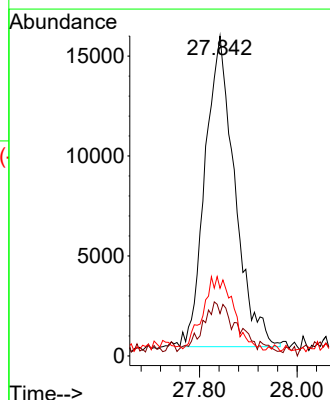
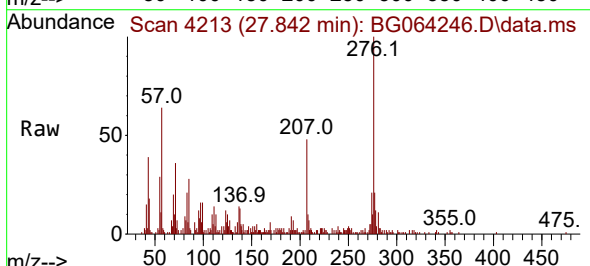
Tgt Ion:276 Resp: 65578

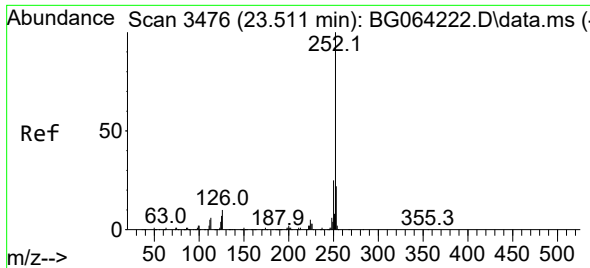
Ion Ratio Lower Upper

276 100

138 9.4 7.4 11.0

277 24.9 20.5 30.7





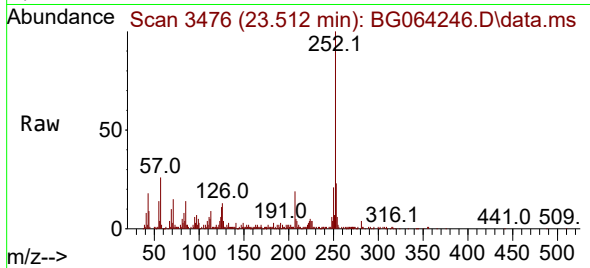
#88
Benzo(b)fluoranthene
Concen: 7.762 ng
RT: 23.512 min Scan# 3476
Delta R.T. -0.006 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

PAULDING-WC1



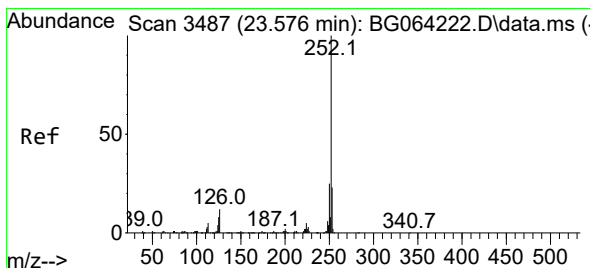
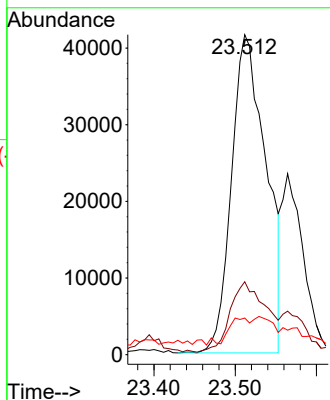
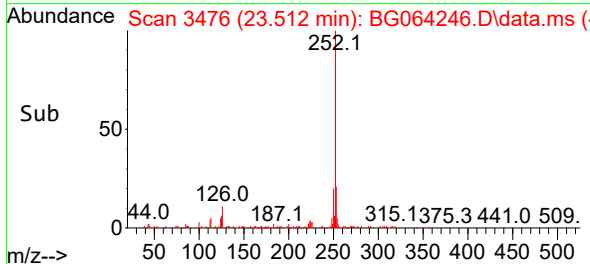
Tgt Ion:252 Resp: 122478
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 11.4 5.9 8.9

Manual Integrations

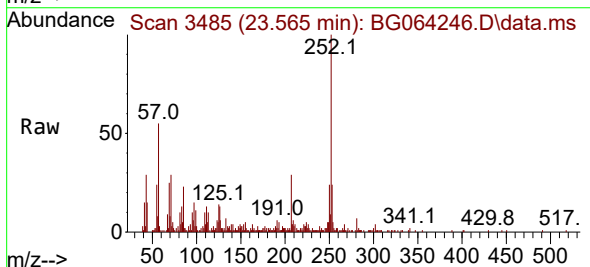
APPROVED

Reviewed By :Rahul Chavli 09/03/2025

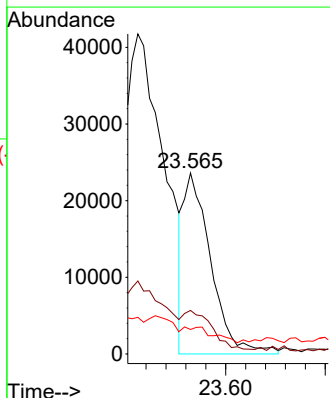
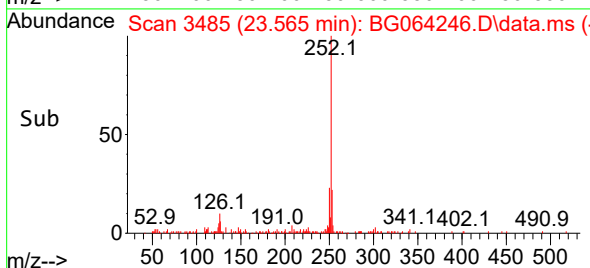
Supervised By :Jagrut Upadhyay 09/03/2025

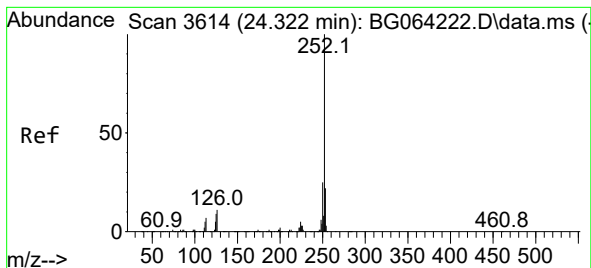


#89
Benzo(k)fluoranthene
Concen: 2.797 ng m
RT: 23.565 min Scan# 3485
Delta R.T. -0.023 min
Lab File: BG064246.D
Acq: 2 Sep 2025 15:25



Tgt Ion:252 Resp: 44965
Ion Ratio Lower Upper
252 100
253 24.1 18.2 27.4
125 13.6 7.0 10.4





#90

Benzo(a)pyrene

Concen: 6.825 ng

RT: 24.317 min Scan# 30

Delta R.T. -0.011 min

Lab File: BG064246.D

Acq: 2 Sep 2025 15:25

Instrument :

BNA_G

ClientSampleId :

PAULDING-WC1

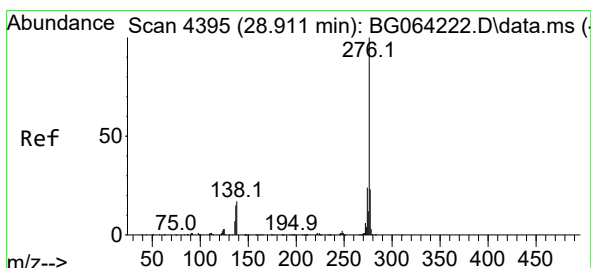
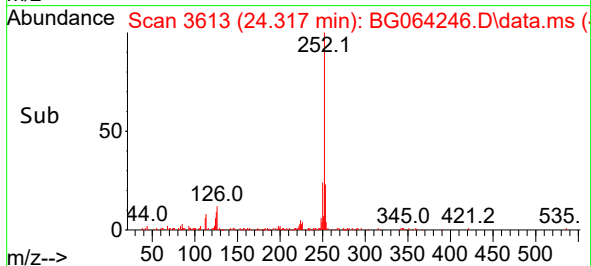
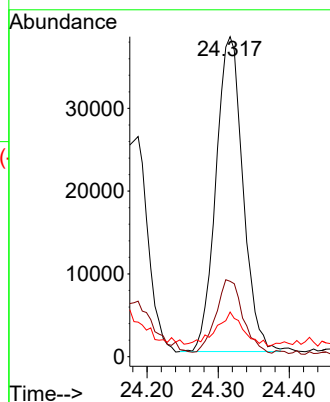
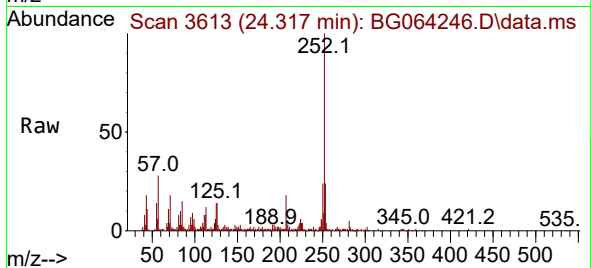
Tgt Ion:252 Resp: 10017
 Ion Ratio Lower Upper
 252 100
 253 23.6 17.4 26.2
 125 13.9 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/03/2025

Supervised By :Jagrut Upadhyay 09/03/2025



#92

Benzo(g,h,i)perylene

Concen: 4.459 ng

RT: 28.905 min Scan# 4394

Delta R.T. -0.029 min

Lab File: BG064246.D

Acq: 2 Sep 2025 15:25

Tgt Ion:276 Resp: 66518
 Ion Ratio Lower Upper
 276 100
 277 24.4 18.2 27.4
 138 22.1 13.3 19.9#

