

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG103125\
 Data File : BG064670.D
 Acq On : 1 Nov 2025 00:27
 Operator : RC/JU
 Sample : Q3486-07DL 20X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP6DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/03/2025
 Supervised By :mohammad ahmed 11/05/2025

Quant Time: Nov 01 01:02:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 16:40:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.219	152	43395	20.000	ng	0.00
21) Naphthalene-d8	11.045	136	171761	20.000	ng	0.00
39) Acenaphthene-d10	14.841	164	128277	20.000	ng	0.00
64) Phenanthrene-d10	17.579	188	266257	20.000	ng	0.00
76) Chrysene-d12	21.856	240	285356	20.000	ng	# 0.00
86) Perylene-d12	25.199	264	320271	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.752	112	9375	3.626	ng	0.00
7) Phenol-d6	7.350	99	13458	3.794	ng	0.00
23) Nitrobenzene-d5	9.377	82	9042	3.162	ng	-0.01
42) 2,4,6-Tribromophenol	16.316	330	6889	3.721	ng	0.00
45) 2-Fluorobiphenyl	13.472	172	21913	2.589	ng	0.00
79) Terphenyl-d14	20.164	244	36277	2.399	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	14.571	152	56044m	5.162	ng	
71) Phenanthrene	17.620	178	199665	13.713	ng	99
75) Fluoranthene	19.618	202	279613	15.329	ng	98
78) Pyrene	19.976	202	590366	31.666	ng	99
81) Benzo(a)anthracene	21.833	228	334740m	17.692	ng	
83) Chrysene	21.903	228	347902	19.324	ng	95
87) Indeno(1,2,3-cd)pyrene	29.036	276	142913	6.066	ng	# 87
88) Benzo(b)fluoranthene	24.136	252	270543	13.776	ng	98
89) Benzo(k)fluoranthene	24.201	252	95925m	4.881	ng	
90) Benzo(a)pyrene	25.047	252	306845	16.997	ng	99
91) Dibenzo(a,h)anthracene	29.083	278	48505m	2.534	ng	
92) Benzo(g,h,i)perylene	29.036	276	142913	6.066	ng	98

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

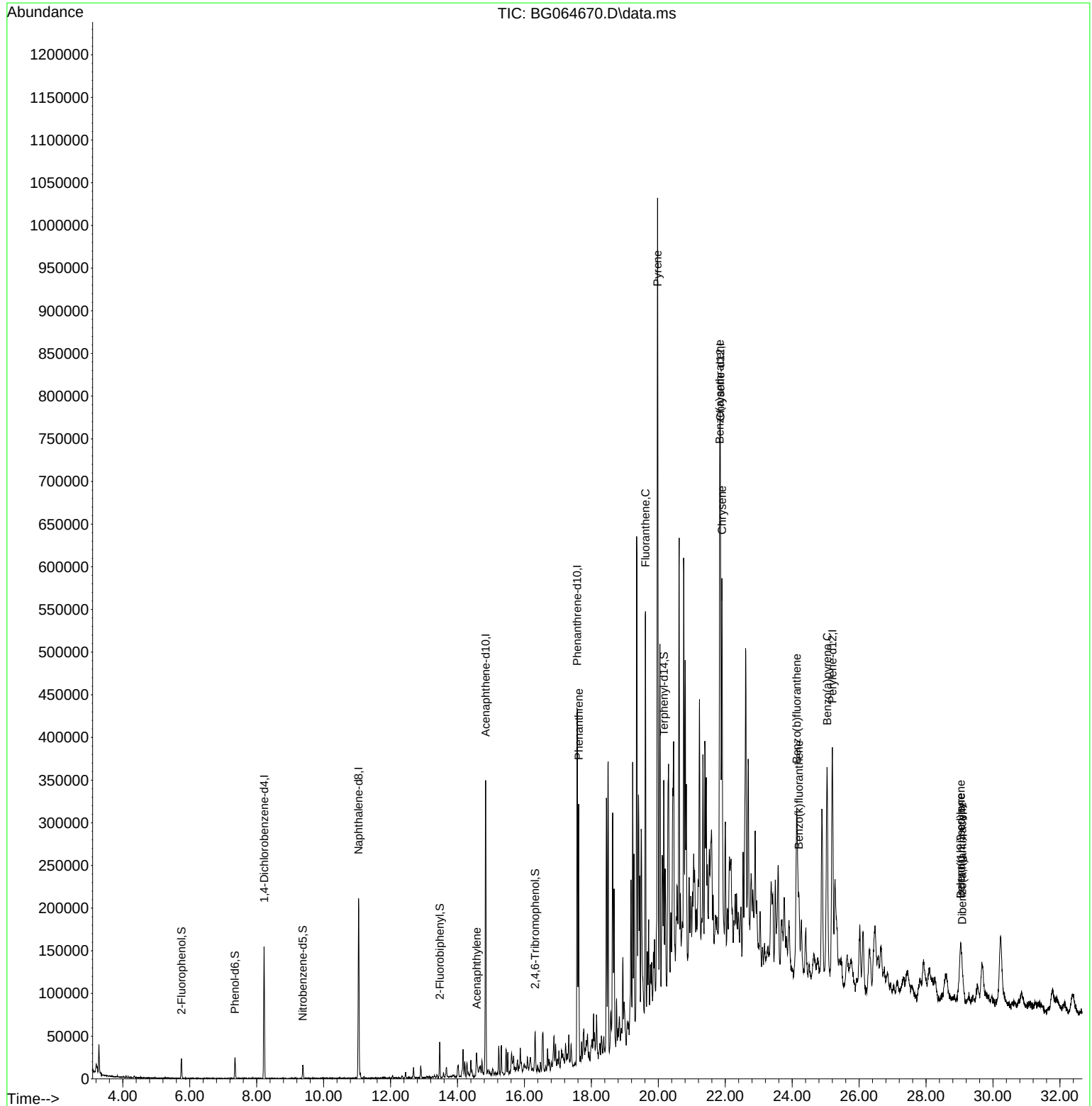
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG103125\
Data File : BG064670.D
Acq On : 1 Nov 2025 00:27
Operator : RC/JU
Sample : Q3486-07DL 20X
Misc :
ALS Vial : 18 Sample Multiplier: 1

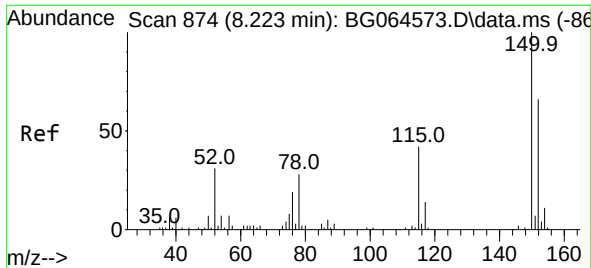
Instrument :
BNA_G
ClientSampleId :
TP6DL

Quant Time: Nov 01 01:02:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 24 16:40:26 2025
Response via : Initial Calibration

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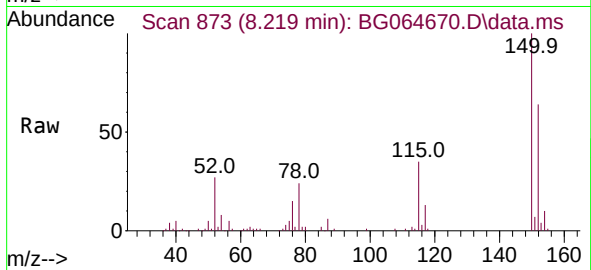
Reviewed By :Rahul Chavli 11/03/2025
Supervised By :mohammad ahmed 11/05/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.219 min Scan# 81
Delta R.T. -0.002 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

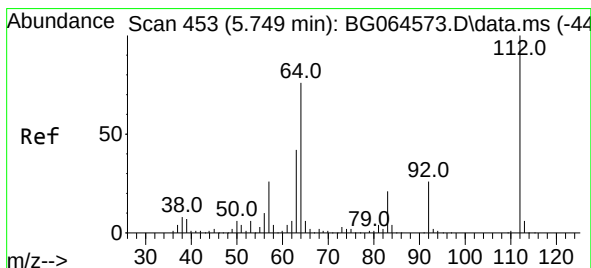
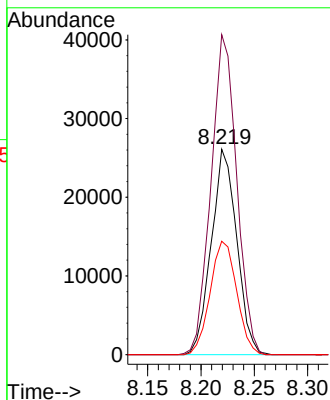
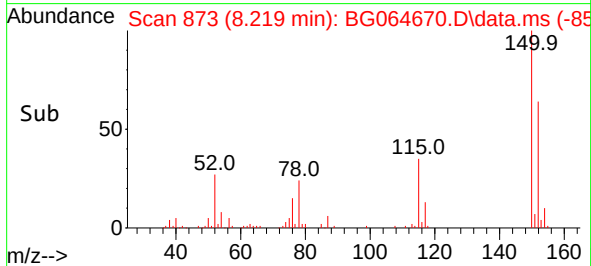
Instrument :
BNA_G
ClientSampleId :
TP6DL



Tgt Ion:152 Resp: 43395
Ion Ratio Lower Upper
152 100
150 155.9 122.2 183.4
115 55.2 50.8 76.2

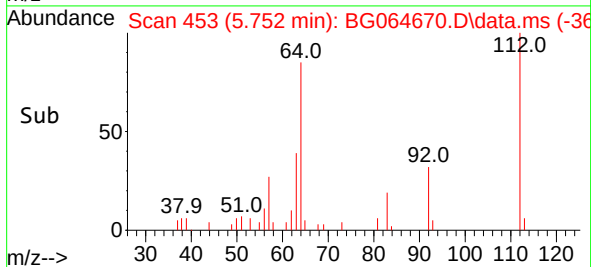
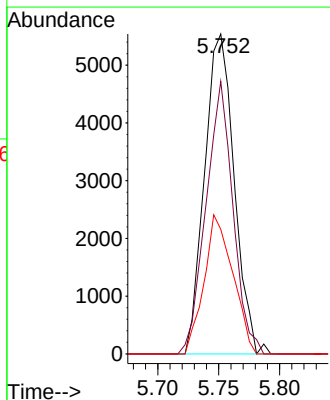
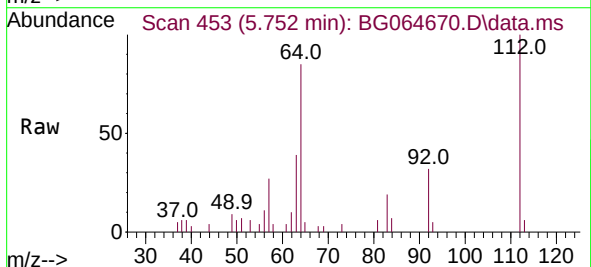
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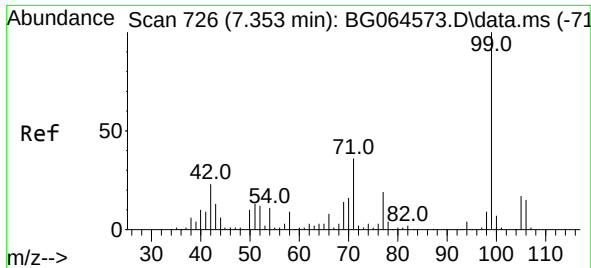
Reviewed By :Rahul Chavli 11/03/2025
Supervised By :mohammad ahmed 11/05/2025



#5
2-Fluorophenol
Concen: 3.626 ng
RT: 5.752 min Scan# 453
Delta R.T. 0.005 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

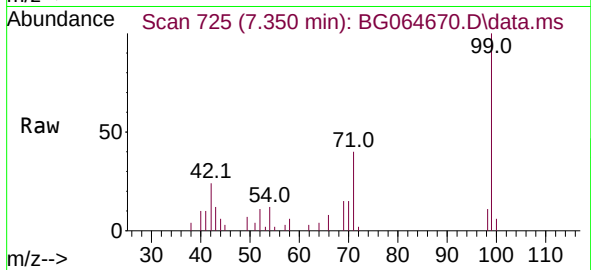
Tgt Ion:112 Resp: 9375
Ion Ratio Lower Upper
112 100
64 85.2 60.7 91.1
63 39.0 33.4 50.0





#7
Phenol-d6
Concen: 3.794 ng
RT: 7.350 min Scan# 71
Delta R.T. -0.007 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

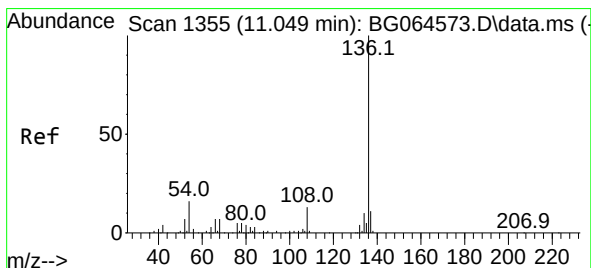
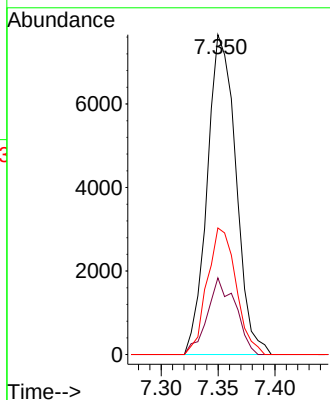
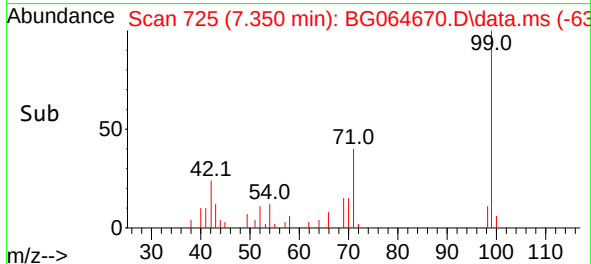
Instrument :
BNA_G
ClientSampleId :
TP6DL



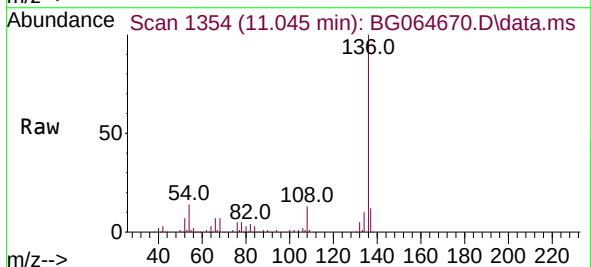
Tgt Ion: 99 Resp: 13458
Ion Ratio Lower Upper
99 100
42 24.0 18.3 27.5
71 39.6 28.6 43.0

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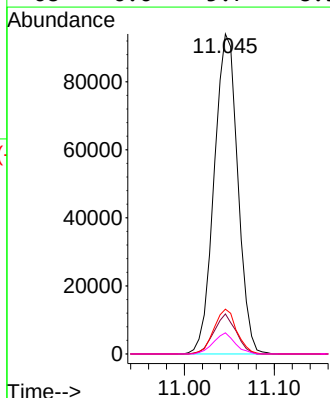
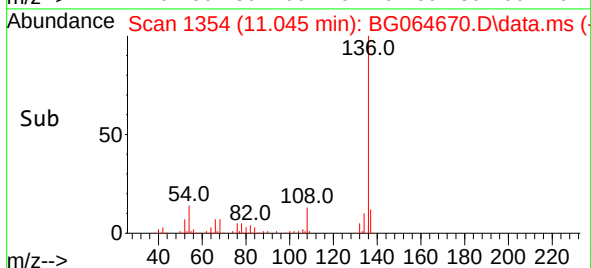
Reviewed By :Rahul Chavli 11/03/2025
Supervised By :mohammad ahmed 11/05/2025

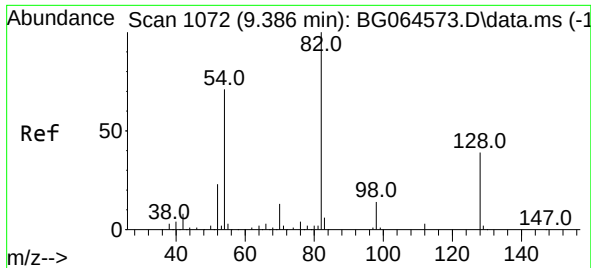


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.045 min Scan# 1354
Delta R.T. -0.007 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27



Tgt Ion:136 Resp: 171761
Ion Ratio Lower Upper
136 100
137 12.5 9.2 13.8
54 14.0 12.6 19.0
68 6.6 5.7 8.5





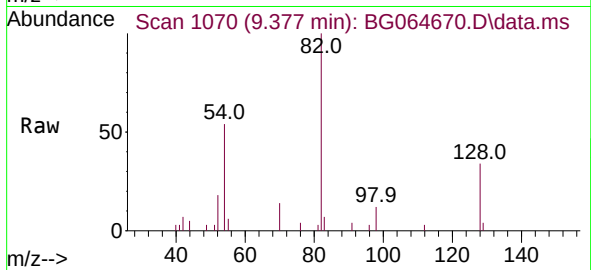
#23
Nitrobenzene-d5
Concen: 3.162 ng
RT: 9.377 min Scan# 1072
Delta R.T. -0.013 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

Instrument :

BNA_G

ClientSampleId :

TP6DL

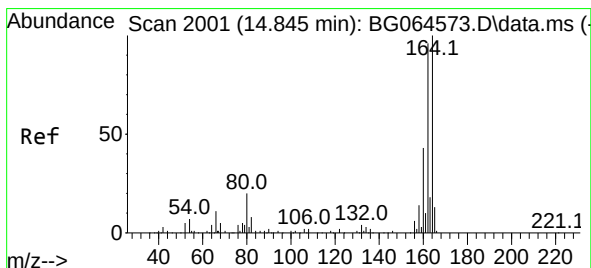
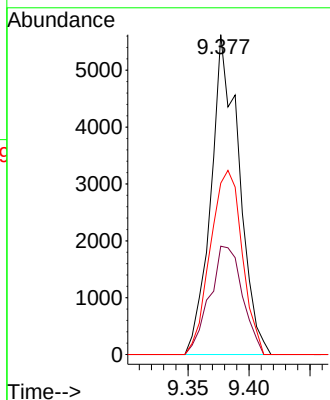
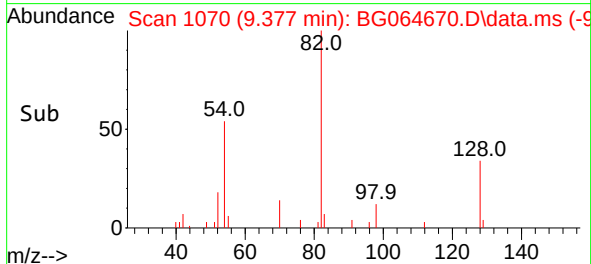


Tgt Ion: 82 Resp: 9042
Ion Ratio Lower Upper
82 100
128 33.9 31.3 46.9
54 53.6 56.6 84.8

Manual Integrations

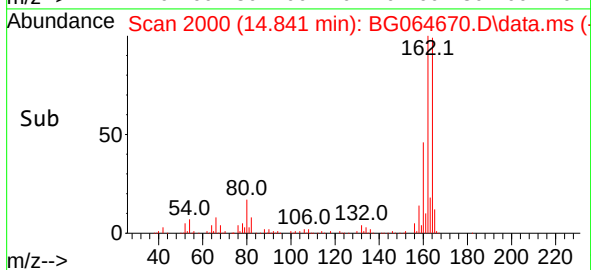
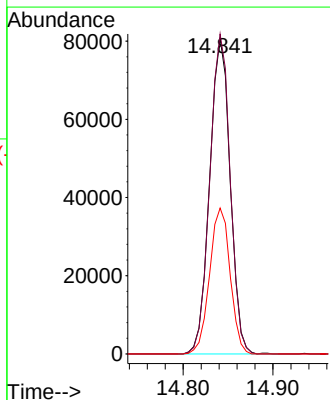
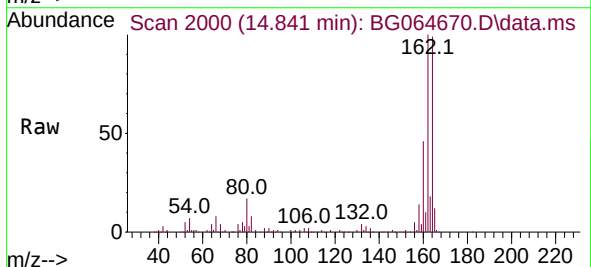
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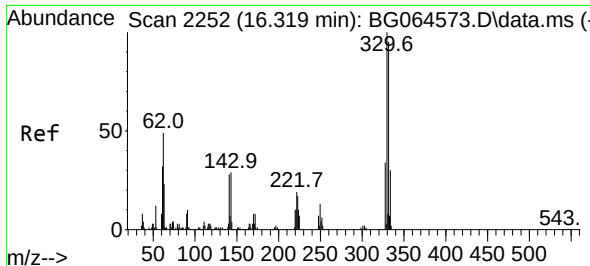
Reviewed By :Rahul Chavli 11/03/2025
Supervised By :mohammad ahmed 11/05/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.841 min Scan# 2000
Delta R.T. -0.001 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

Tgt Ion:164 Resp: 128277
Ion Ratio Lower Upper
164 100
162 101.4 77.0 115.6
160 46.2 34.4 51.6





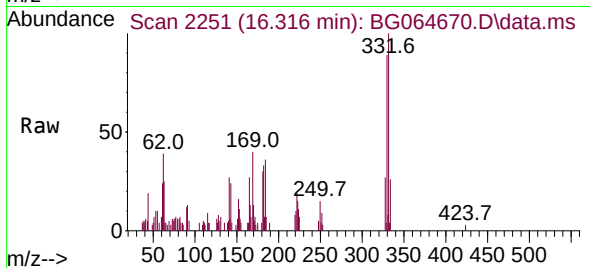
#42
 2,4,6-Tribromophenol
 Concen: 3.721 ng
 RT: 16.316 min Scan# 2252
 Delta R.T. -0.007 min
 Lab File: BG064670.D
 Acq: 1 Nov 2025 00:27

Instrument :

BNA_G

ClientSampleId :

TP6DL



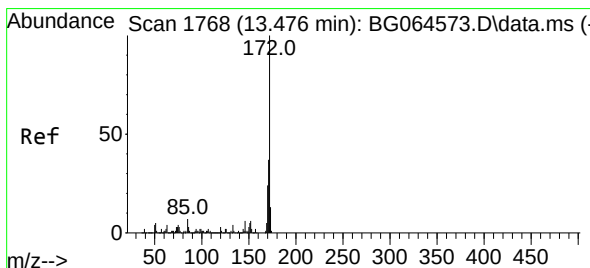
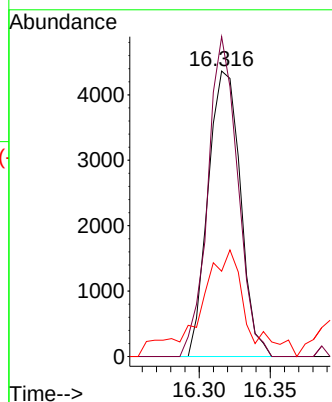
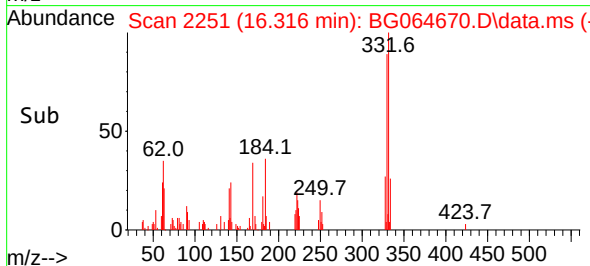
Tgt Ion:330 Resp: 6889
 Ion Ratio Lower Upper
 330 100
 332 103.8 78.0 117.0
 141 53.8 21.8 32.6

Manual Integrations

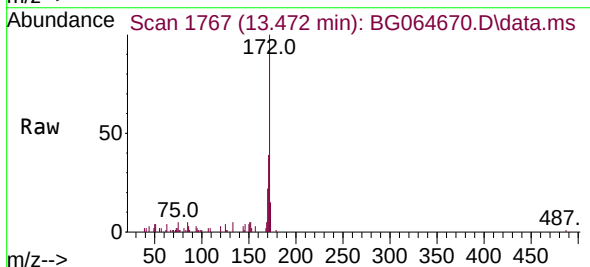
APPROVED

Reviewed By :Rahul Chavli 11/03/2025

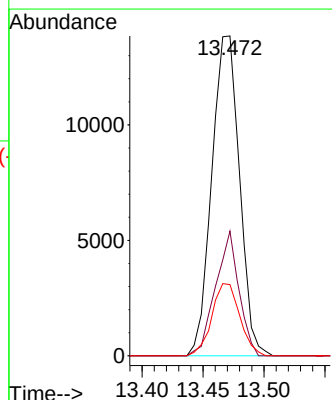
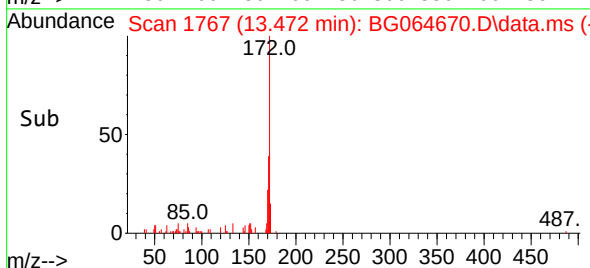
Supervised By :mohammad ahmed 11/05/2025

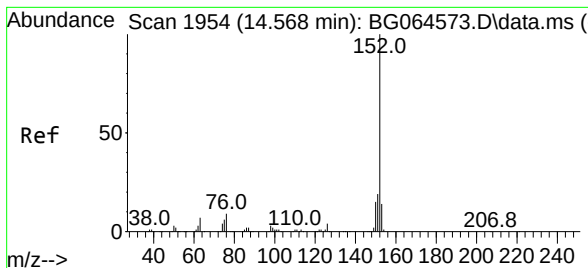


#45
 2-Fluorobiphenyl
 Concen: 2.589 ng
 RT: 13.472 min Scan# 1767
 Delta R.T. -0.007 min
 Lab File: BG064670.D
 Acq: 1 Nov 2025 00:27



Tgt Ion:172 Resp: 21913
 Ion Ratio Lower Upper
 172 100
 171 39.0 29.4 44.0
 170 22.3 19.1 28.7





#49

Acenaphthylene

Concen: 5.162 ng m

RT: 14.571 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BG064670.D

Acq: 1 Nov 2025 00:27

Instrument :

BNA_G

ClientSampleId :

TP6DL

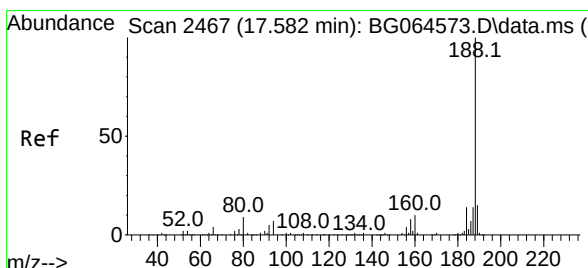
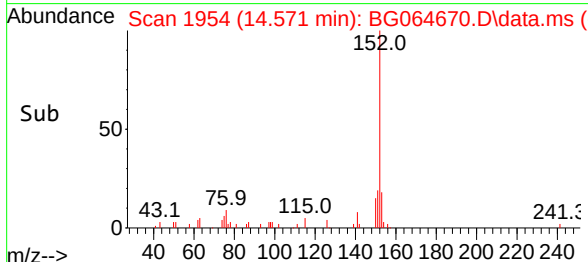
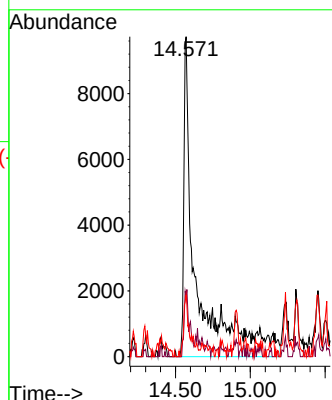
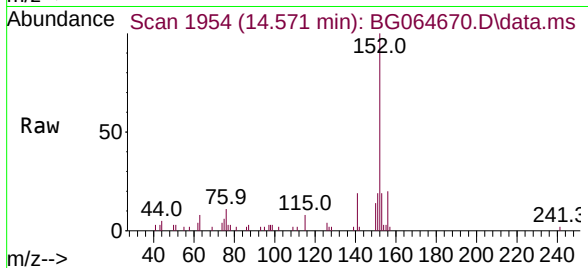
Tgt Ion:	152	Resp:	5604
Ion Ratio	Lower	Upper	
152	100		
151	18.6	15.4	23.2
153	19.3	11.0	16.4

Manual Integrations

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Reviewed By :Rahul Chavli 11/03/2025

Supervised By :mohammad ahmed 11/05/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

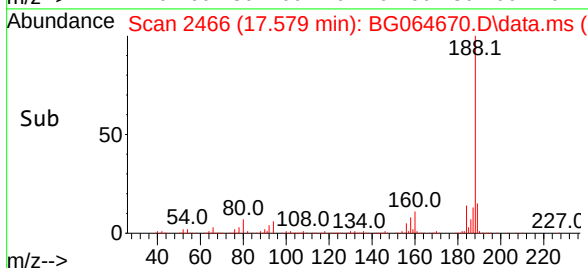
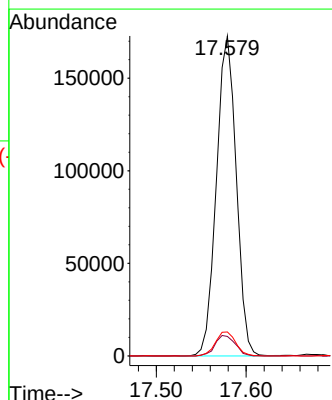
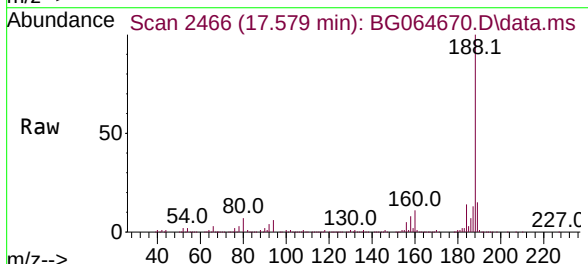
RT: 17.579 min Scan# 2466

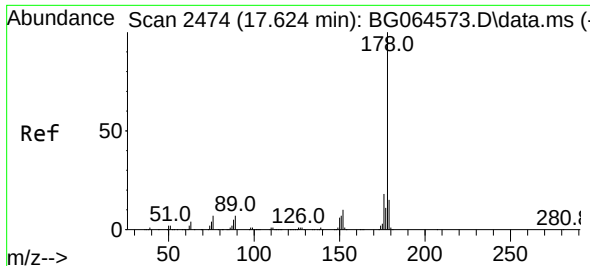
Delta R.T. -0.001 min

Lab File: BG064670.D

Acq: 1 Nov 2025 00:27

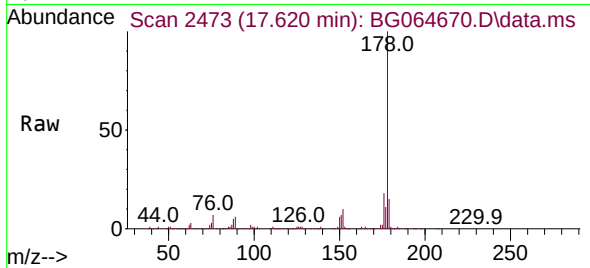
Tgt Ion:	188	Resp:	266257
Ion Ratio	Lower	Upper	
188	100		
94	6.1	5.7	8.5
80	7.5	6.8	10.2





#71
Phenanthrene
Concen: 13.713 ng
RT: 17.620 min Scan# 2474
Delta R.T. -0.007 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

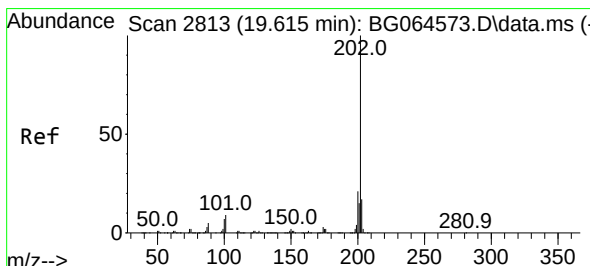
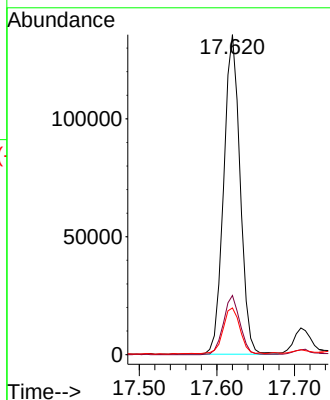
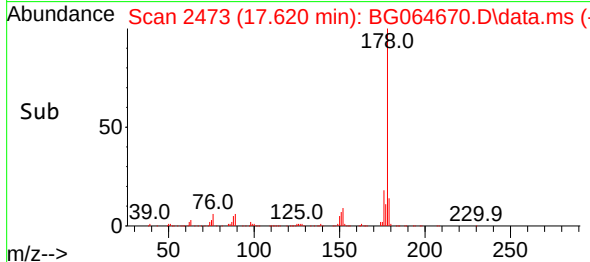
Instrument :
BNA_G
ClientSampleId :
TP6DL



Tgt Ion:178 Resp: 199665
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 14.6 12.2 18.4

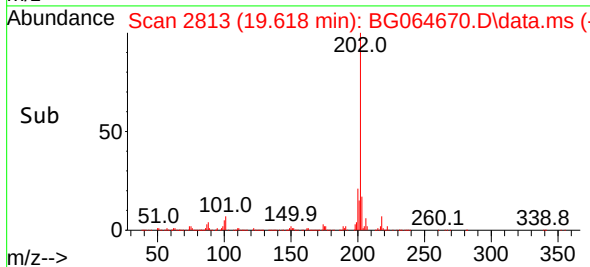
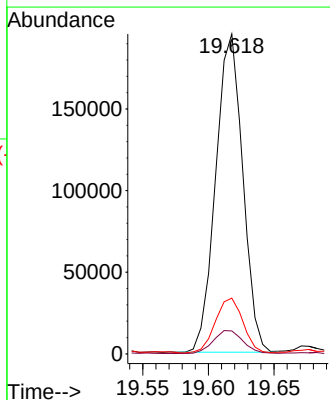
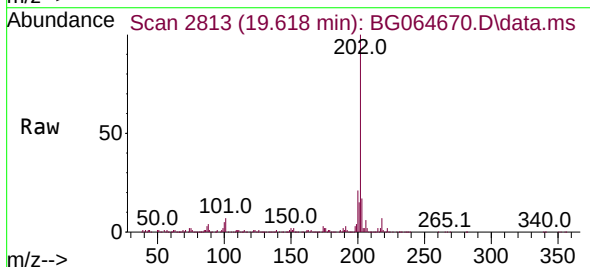
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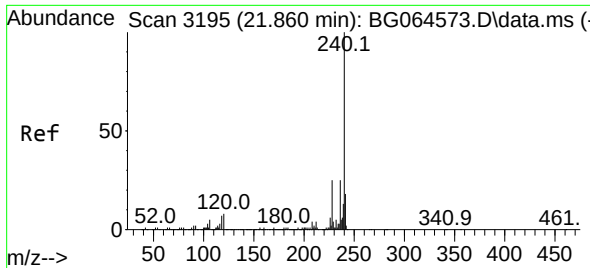
Reviewed By :Rahul Chavli 11/03/2025
Supervised By :mohammad ahmed 11/05/2025



#75
Fluoranthene
Concen: 15.329 ng
RT: 19.618 min Scan# 2813
Delta R.T. -0.001 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

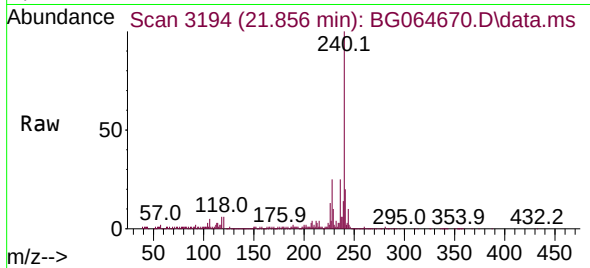
Tgt Ion:202 Resp: 279613
Ion Ratio Lower Upper
202 100
101 7.2 0.0 28.7
203 17.5 0.0 37.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.856 min Scan# 3195
Delta R.T. -0.007 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

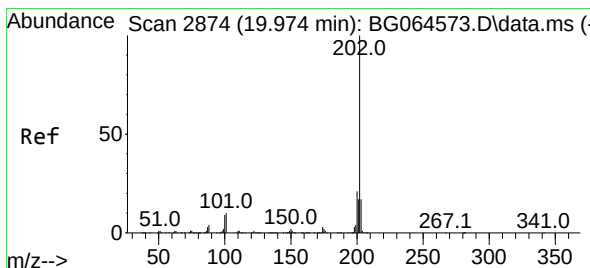
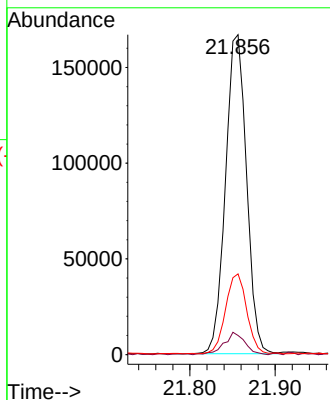
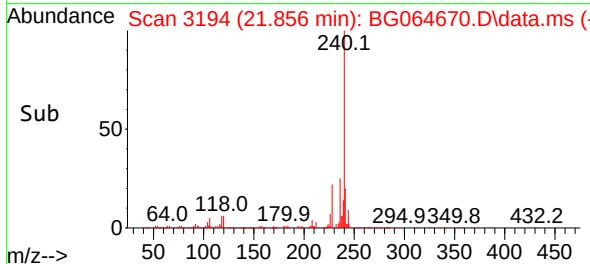
Instrument :
BNA_G
ClientSampleId :
TP6DL



Tgt Ion:240 Resp: 285356
Ion Ratio Lower Upper
240 100
120 6.0 6.5 9.7
236 25.2 20.2 30.2

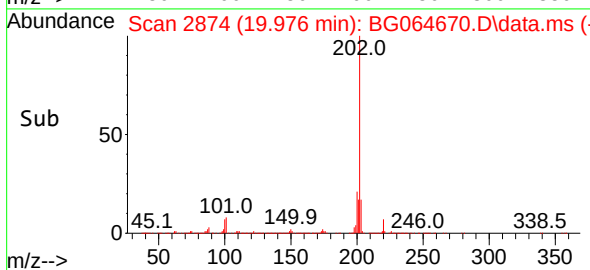
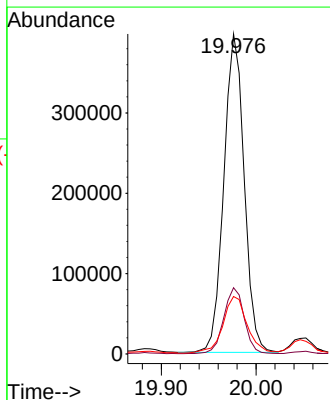
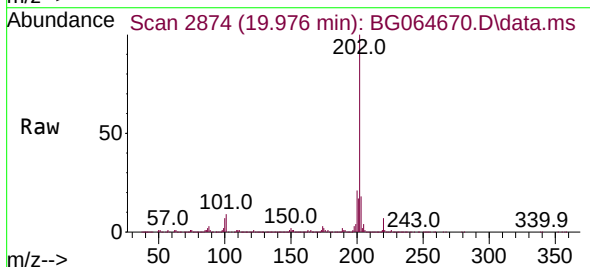
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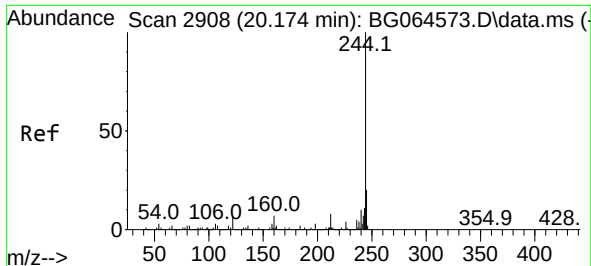
Reviewed By :Rahul Chavli 11/03/2025
Supervised By :mohammad ahmed 11/05/2025



#78
Pyrene
Concen: 31.666 ng
RT: 19.976 min Scan# 2874
Delta R.T. -0.001 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

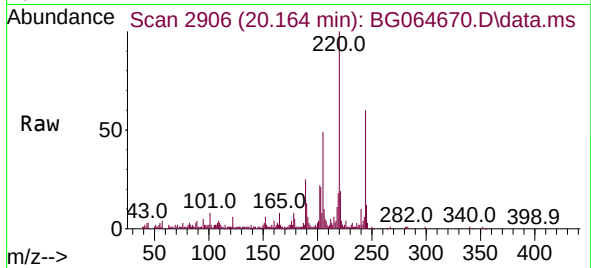
Tgt Ion:202 Resp: 590366
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.4
203 17.9 13.8 20.6





#79
 Terphenyl-d14
 Concen: 2.399 ng
 RT: 20.164 min Scan# 2908
 Delta R.T. -0.013 min
 Lab File: BG064670.D
 Acq: 1 Nov 2025 00:27

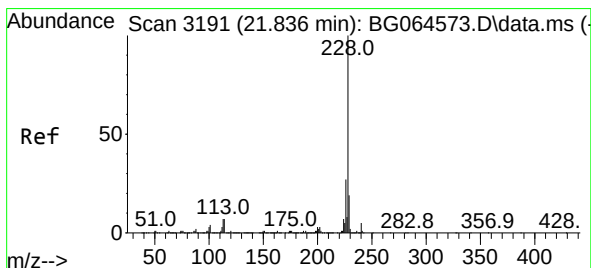
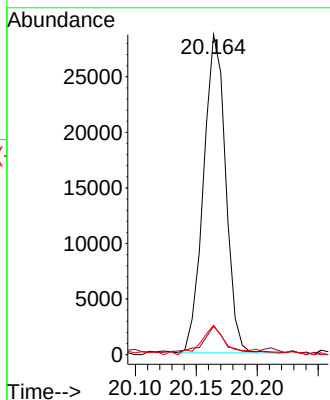
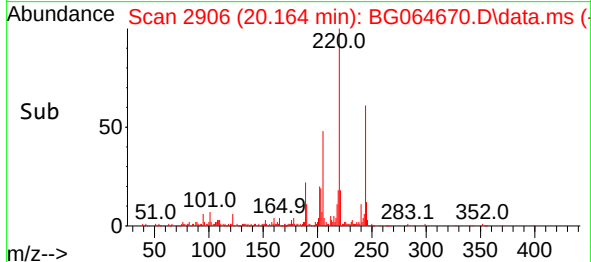
Instrument :
 BNA_G
 ClientSampleId :
 TP6DL



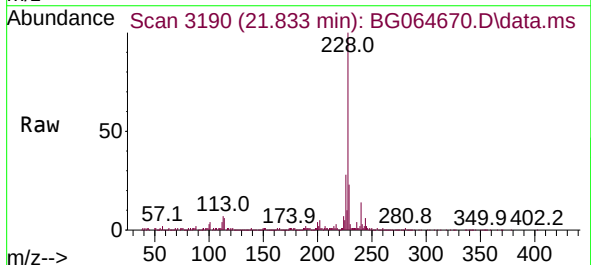
Tgt Ion:244 Resp: 36272
 Ion Ratio Lower Upper
 244 100
 212 8.8 6.1 9.1
 122 9.2 5.6 8.4

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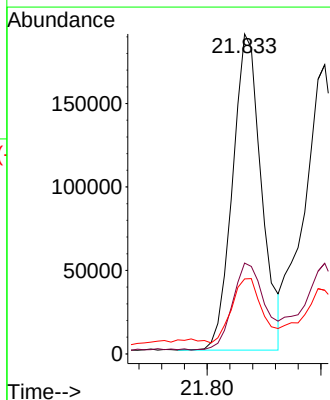
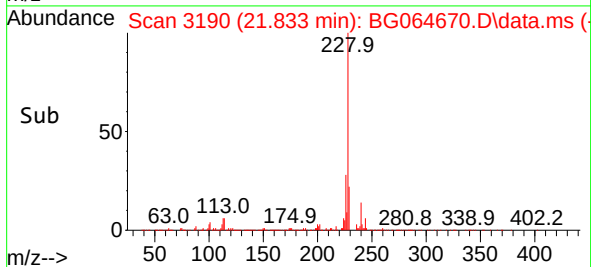
Reviewed By :Rahul Chavli 11/03/2025
 Supervised By :mohammad ahmed 11/05/2025

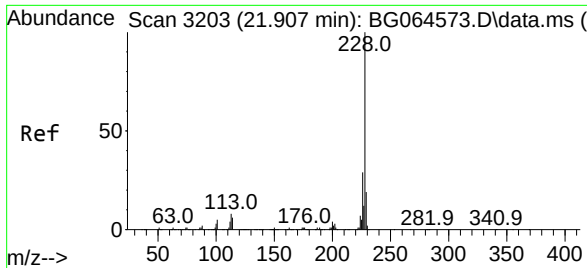


#81
 Benzo(a)anthracene
 Concen: 17.692 ng m
 RT: 21.833 min Scan# 3190
 Delta R.T. -0.007 min
 Lab File: BG064670.D
 Acq: 1 Nov 2025 00:27



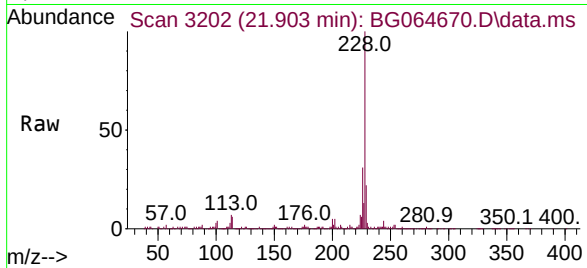
Tgt Ion:228 Resp: 334740
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.9 32.9
 229 23.4 15.6 23.4





#83
Chrysene
Concen: 19.324 ng
RT: 21.903 min Scan# 31
Delta R.T. -0.007 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

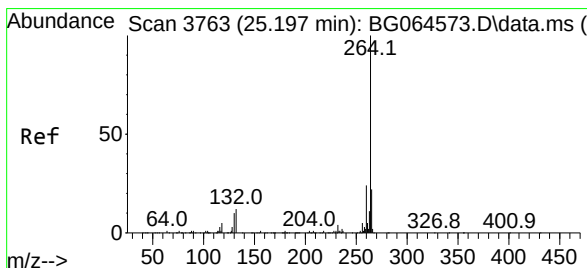
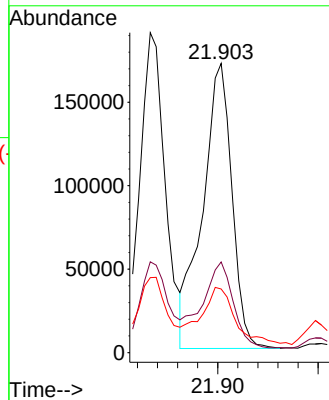
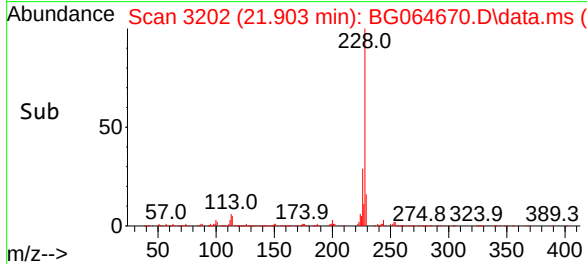
Instrument :
BNA_G
ClientSampleId :
TP6DL



Tgt Ion:228 Resp: 347902
Ion Ratio Lower Upper
228 100
226 31.3 23.3 34.9
229 22.0 15.2 22.8

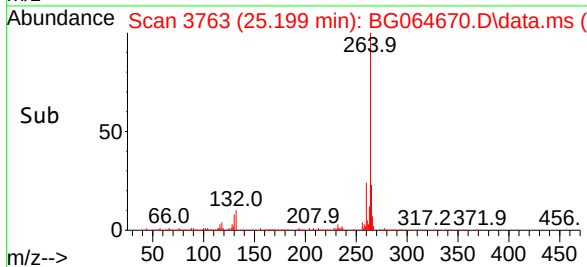
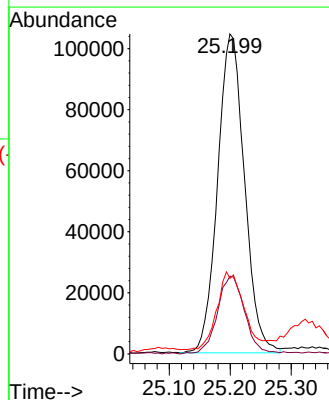
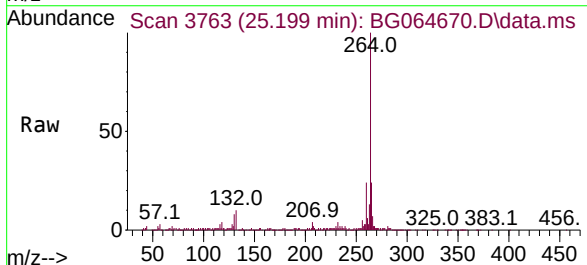
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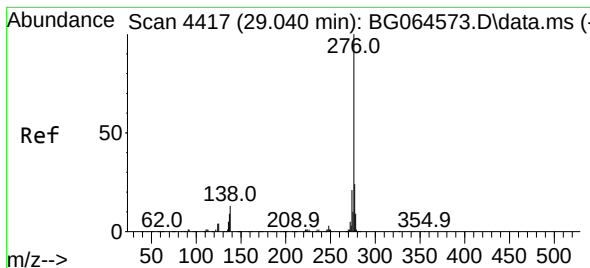
Reviewed By :Rahul Chavli 11/03/2025
Supervised By :mohammad ahmed 11/05/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.199 min Scan# 3763
Delta R.T. -0.001 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

Tgt Ion:264 Resp: 320271
Ion Ratio Lower Upper
264 100
260 24.3 19.0 28.4
265 23.6 17.6 26.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.066 ng

RT: 29.036 min Scan# 4417

Delta R.T. -0.025 min

Lab File: BG064670.D

Acq: 1 Nov 2025 00:27

Instrument :

BNA_G

ClientSampleId :

TP6DL

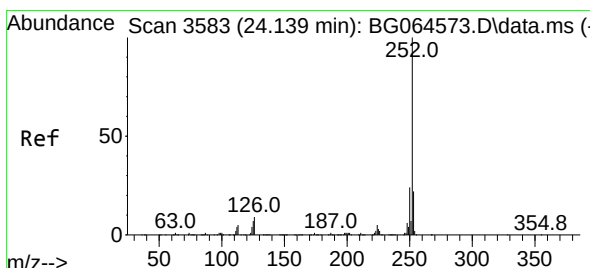
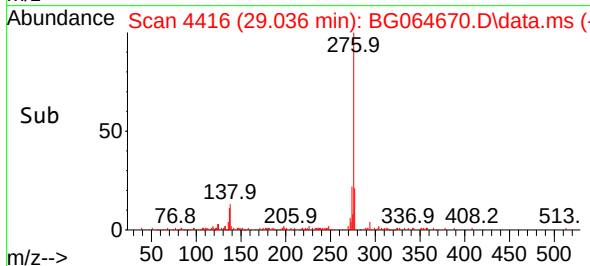
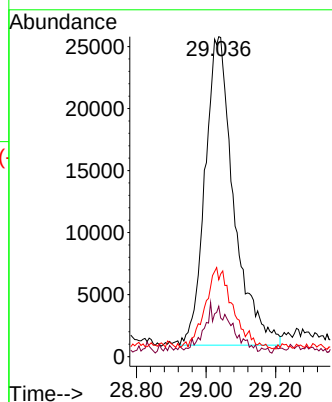
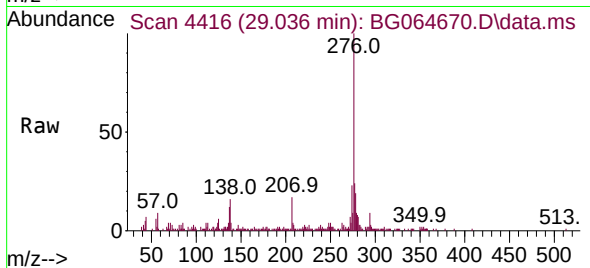
Tgt Ion:276 Resp: 142913
 Ion Ratio Lower Upper
 276 100
 138 0.0 10.8 16.2
 277 24.2 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 11/03/2025

Supervised By :mohammad ahmed 11/05/2025



#88

Benzo(b)fluoranthene

Concen: 13.776 ng

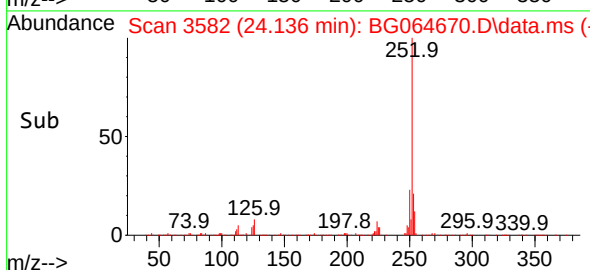
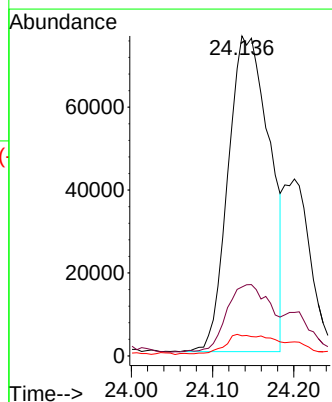
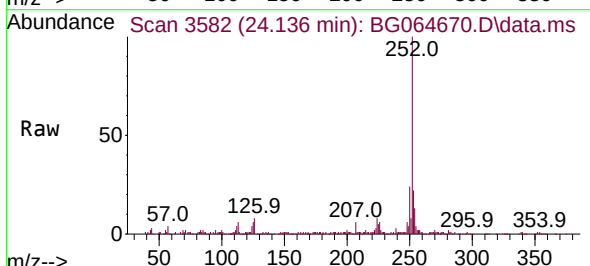
RT: 24.136 min Scan# 3582

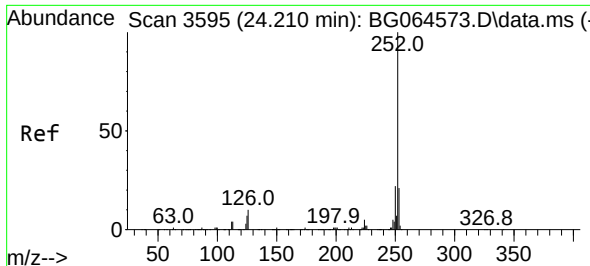
Delta R.T. -0.007 min

Lab File: BG064670.D

Acq: 1 Nov 2025 00:27

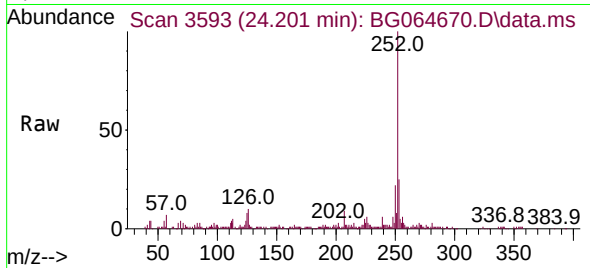
Tgt Ion:252 Resp: 270543
 Ion Ratio Lower Upper
 252 100
 253 21.5 17.8 26.8
 125 6.3 5.6 8.4





#89
Benzo(k)fluoranthene
Concen: 4.881 ng m
RT: 24.201 min Scan# 3595
Delta R.T. -0.019 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

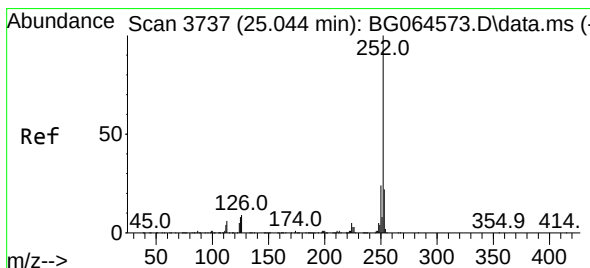
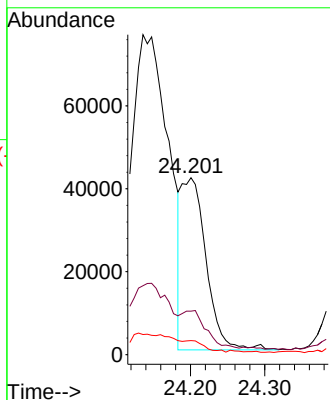
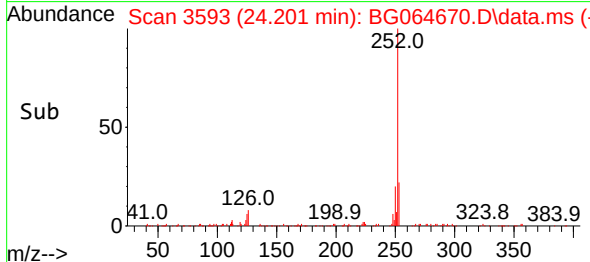
Instrument :
BNA_G
ClientSampleId :
TP6DL



Tgt Ion:252 Resp: 95925
Ion Ratio Lower Upper
252 100
253 24.6 16.8 25.2
125 7.9 5.4 8.0

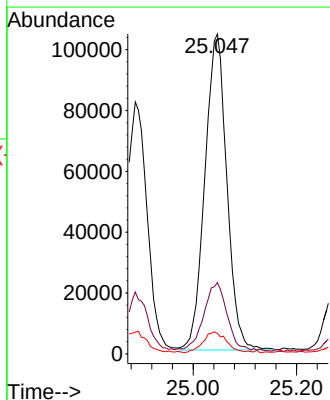
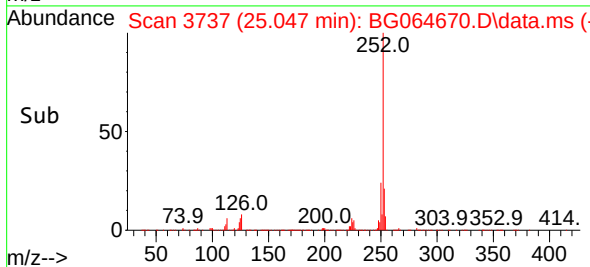
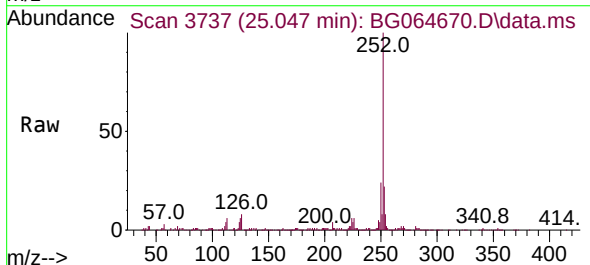
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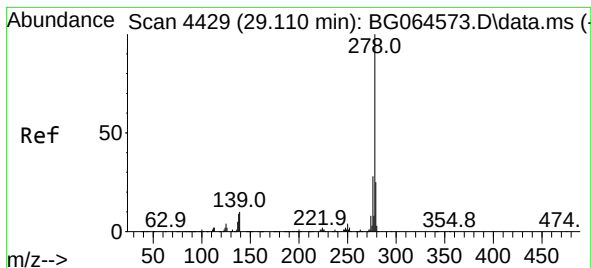
Reviewed By :Rahul Chavli 11/03/2025
Supervised By :mohammad ahmed 11/05/2025



#90
Benzo(a)pyrene
Concen: 16.997 ng
RT: 25.047 min Scan# 3737
Delta R.T. -0.013 min
Lab File: BG064670.D
Acq: 1 Nov 2025 00:27

Tgt Ion:252 Resp: 306845
Ion Ratio Lower Upper
252 100
253 22.3 17.6 26.4
125 6.4 6.1 9.1





#91

Dibenzo(a,h)anthracene

Concen: 2.534 ng m

RT: 29.083 min Scan# 4424

Delta R.T. -0.054 min

Lab File: BG064670.D

Acq: 1 Nov 2025 00:27

Instrument :

BNA_G

ClientSampleId :

TP6DL

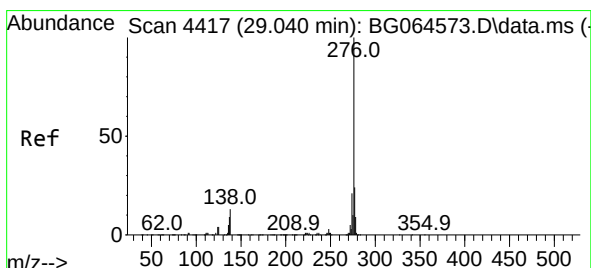
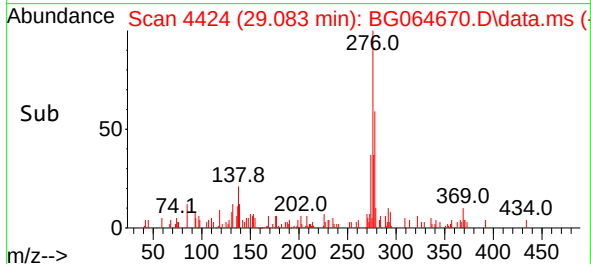
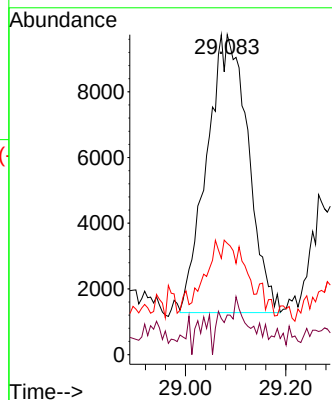
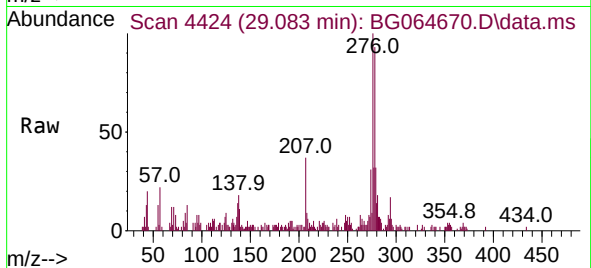
Tgt Ion:278 Resp: 48505
 Ion Ratio Lower Upper
 278 100
 139 12.4 8.0 12.0
 279 34.8 19.8 29.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 11/03/2025

Supervised By :mohammad ahmed 11/05/2025



#92

Benzo(g,h,i)perylene

Concen: 6.066 ng

RT: 29.036 min Scan# 4416

Delta R.T. -0.025 min

Lab File: BG064670.D

Acq: 1 Nov 2025 00:27

Tgt Ion:276 Resp: 142913
 Ion Ratio Lower Upper
 276 100
 277 24.0 19.2 28.8
 138 15.7 10.7 16.1

