

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG101625\
 Data File : BG064522.D
 Acq On : 16 Oct 2025 19:01
 Operator : RC/JU
 Sample : Q3352-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-3

Quant Time: Oct 16 21:58:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 02 16:40:42 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/17/2025
 Supervised By :Jagrut Upadhyay 10/17/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.817	152	14005	20.000	ng	# 0.00
21) Naphthalene-d8	10.602	136	58109	20.000	ng	# 0.00
39) Acenaphthene-d10	14.445	164	43315	20.000	ng	0.00
64) Phenanthrene-d10	17.183	188	106973	20.000	ng	0.00
76) Chrysene-d12	21.413	240	124431	20.000	ng	0.00
86) Perylene-d12	24.392	264	142325	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	84080	111.107	ng	0.00
7) Phenol-d6	6.994	99	113428	111.538	ng	0.00
23) Nitrobenzene-d5	8.969	82	75989	70.315	ng	0.00
42) 2,4,6-Tribromophenol	15.937	330	87464	111.398	ng	0.00
45) 2-Fluorobiphenyl	13.070	172	197369	67.164	ng	0.00
79) Terphenyl-d14	19.809	244	439019	66.771	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.224	178	21893	3.914	ng	99
75) Fluoranthene	19.239	202	67577	10.112	ng	99
78) Pyrene	19.597	202	59683	7.391	ng	98
81) Benzo(a)anthracene	21.395	228	38711	4.872	ng	96
83) Chrysene	21.454	228	36105m	4.792	ng	
87) Indeno(1,2,3-cd)pyrene	27.729	276	29735	3.002	ng	# 74
88) Benzo(b)fluoranthene	23.452	252	50862	6.282	ng	97
89) Benzo(k)fluoranthene	23.499	252	22898m	2.808	ng	
90) Benzo(a)pyrene	24.251	252	39688	5.318	ng	# 94
92) Benzo(g,h,i)perylene	28.781	276	27505	3.573	ng	97

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

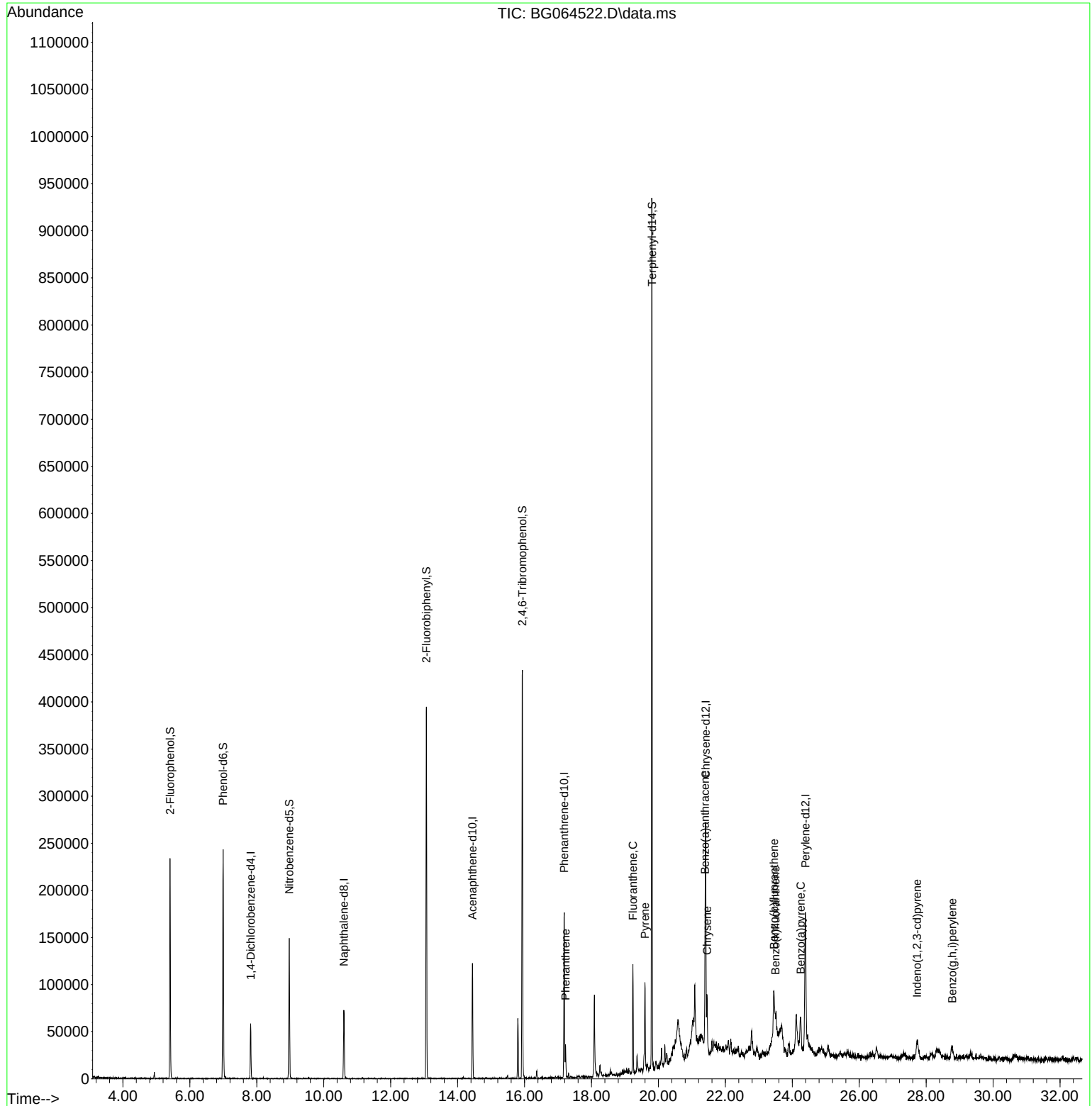
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG101625\
Data File : BG064522.D
Acq On : 16 Oct 2025 19:01
Operator : RC/JU
Sample : Q3352-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

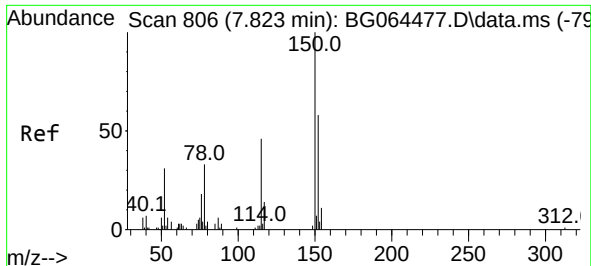
Instrument :
BNA_G
ClientSampleId :
TP-3

Quant Time: Oct 16 21:58:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025





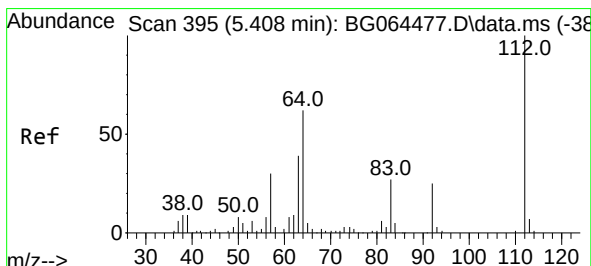
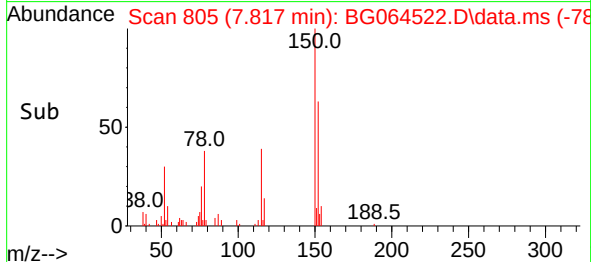
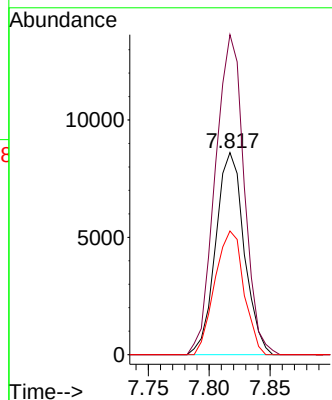
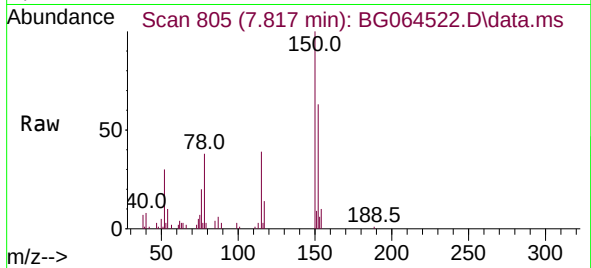
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.817 min Scan# 806
Delta R.T. -0.003 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

Instrument :
BNA_G
ClientSampleId :
TP-3

Tgt Ion:152 Resp: 14005
Ion Ratio Lower Upper
152 100
150 158.4 138.6 207.8
115 61.2 63.4 95.2

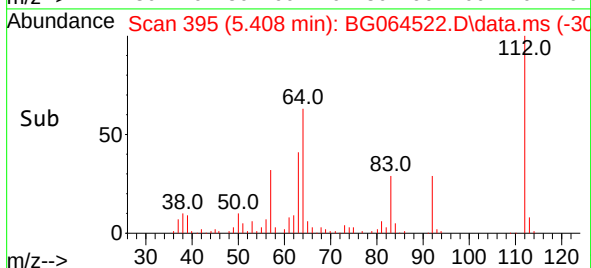
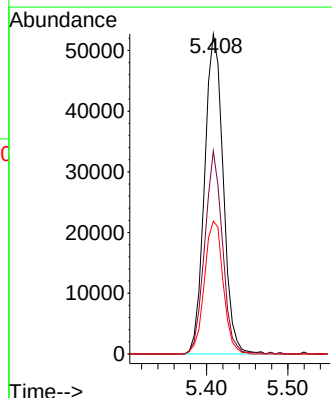
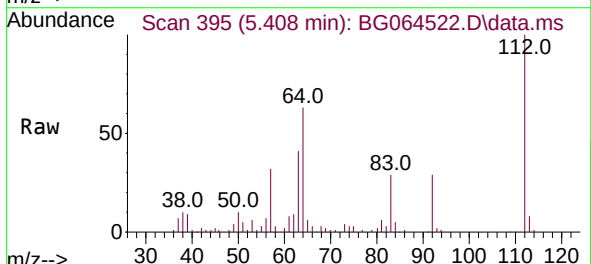
Manual Integrations
APPROVED

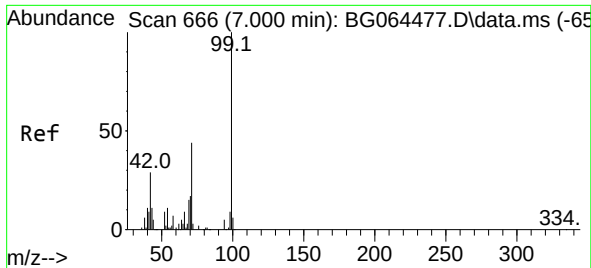
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#5
2-Fluorophenol
Concen: 111.107 ng
RT: 5.408 min Scan# 395
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

Tgt Ion:112 Resp: 84080
Ion Ratio Lower Upper
112 100
64 63.4 49.8 74.8
63 41.5 31.3 46.9





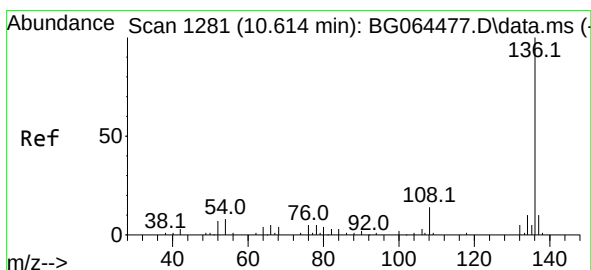
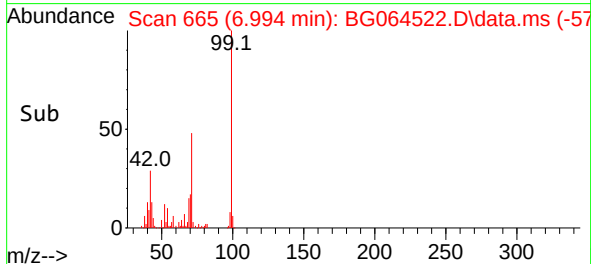
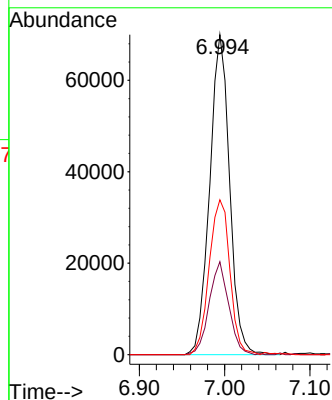
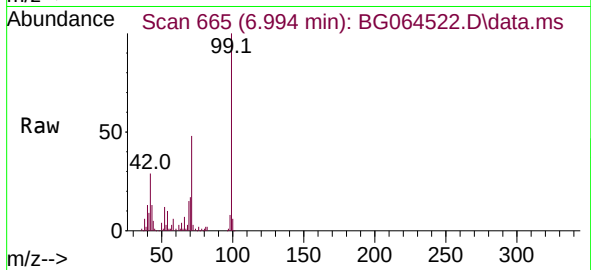
#7
Phenol-d6
Concen: 111.538 ng
RT: 6.994 min Scan# 60
Delta R.T. 0.008 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

Instrument :
BNA_G
ClientSampleId :
TP-3

Tgt Ion: 99 Resp: 113428
Ion Ratio Lower Upper
99 100
42 29.0 22.9 34.3
71 48.4 35.4 53.2

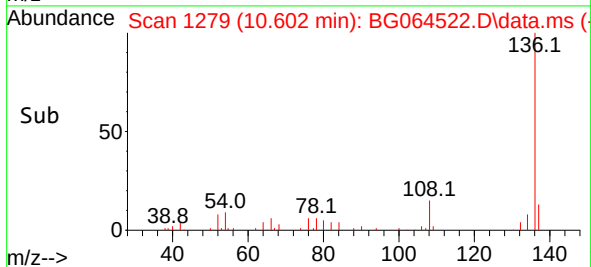
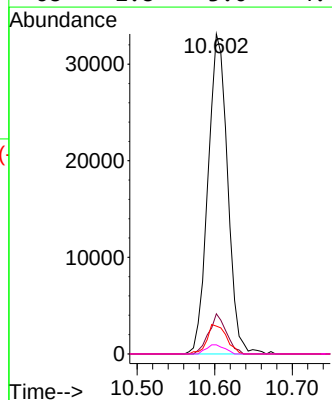
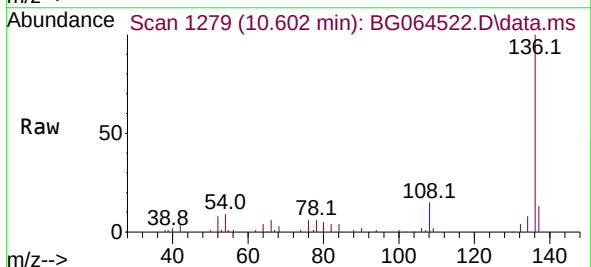
Manual Integrations
APPROVED

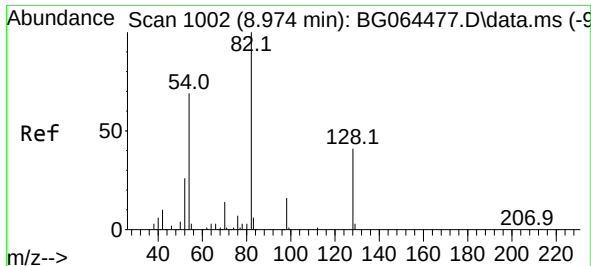
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.602 min Scan# 1279
Delta R.T. -0.003 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

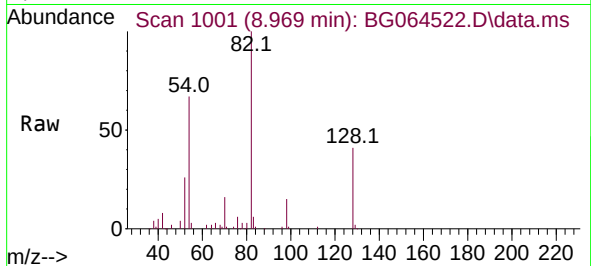
Tgt Ion:136 Resp: 58109
Ion Ratio Lower Upper
136 100
137 12.5 8.3 12.5#
54 9.5 6.2 9.4#
68 2.8 3.0 4.4#





#23
Nitrobenzene-d5
Concen: 70.315 ng
RT: 8.969 min Scan# 1001
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

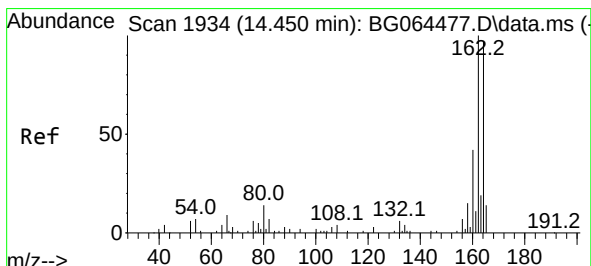
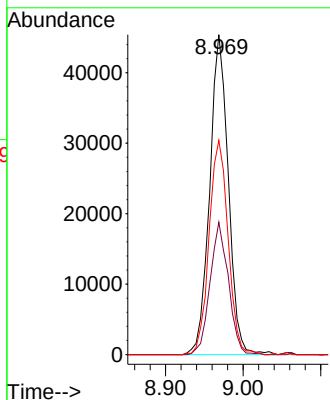
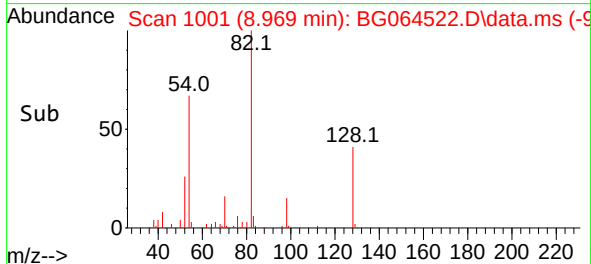
Instrument :
BNA_G
ClientSampleId :
TP-3



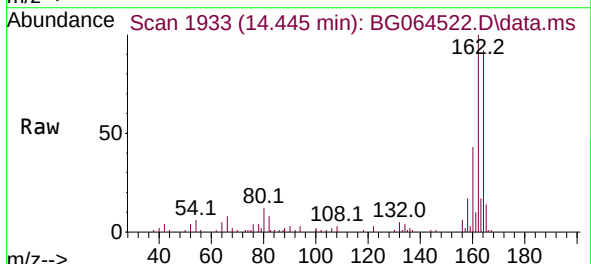
Tgt Ion: 82 Resp: 75989
Ion Ratio Lower Upper
82 100
128 41.4 33.1 49.7
54 67.0 55.4 83.2

Manual Integrations
APPROVED

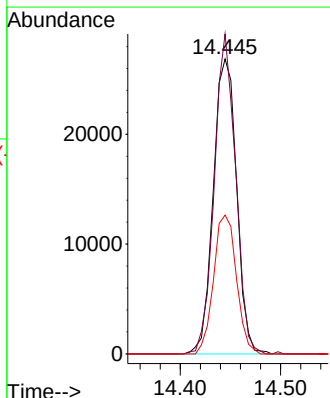
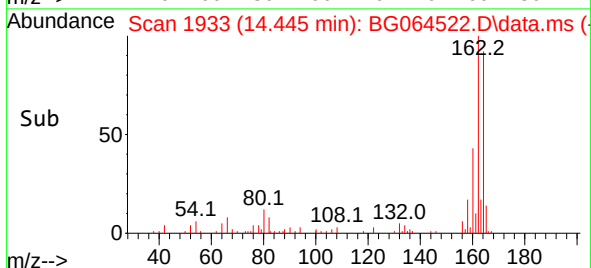
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025

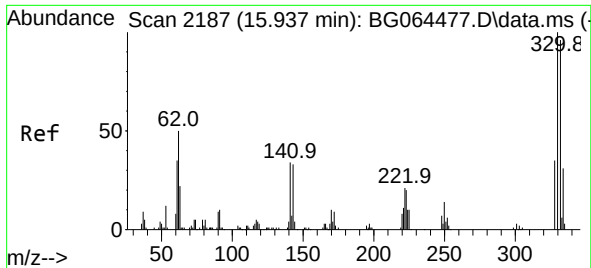


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.445 min Scan# 1933
Delta R.T. -0.003 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01



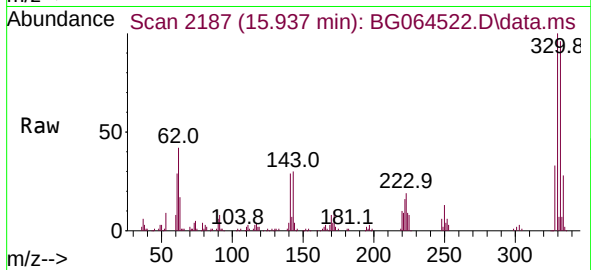
Tgt Ion:164 Resp: 43315
Ion Ratio Lower Upper
164 100
162 108.5 82.2 123.2
160 47.0 34.3 51.5





#42
2,4,6-Tribromophenol
Concen: 111.398 ng
RT: 15.937 min Scan# 2187
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

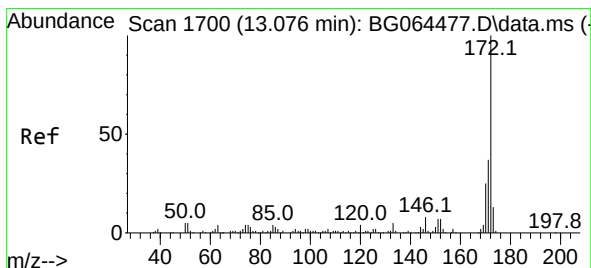
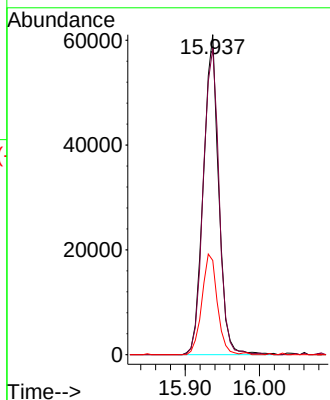
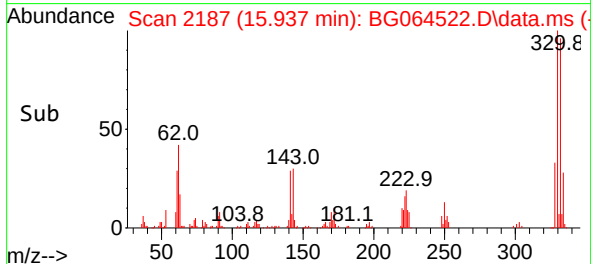
Instrument :
BNA_G
ClientSampleId :
TP-3



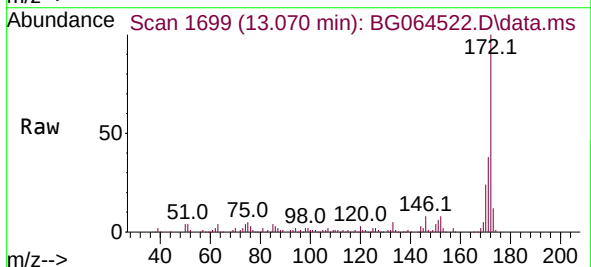
Tgt Ion: 330 Resp: 87464
Ion Ratio Lower Upper
330 100
332 98.7 77.4 116.0
141 31.6 25.8 38.6

Manual Integrations
APPROVED

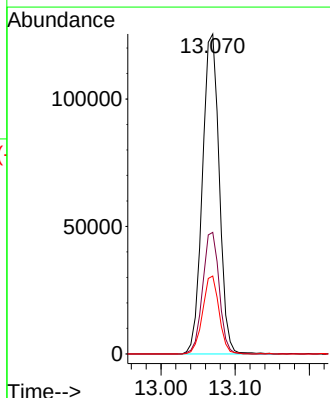
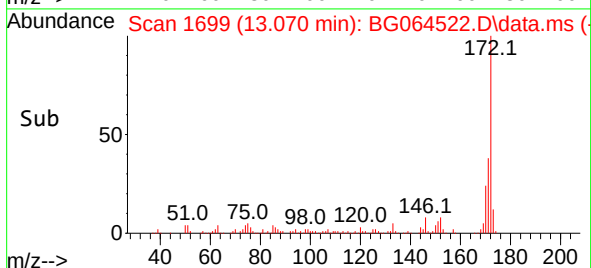
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025

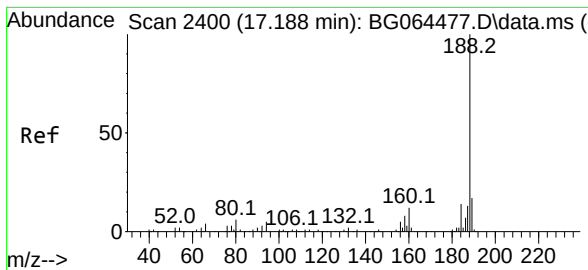


#45
2-Fluorobiphenyl
Concen: 67.164 ng
RT: 13.070 min Scan# 1699
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01



Tgt Ion: 172 Resp: 197369
Ion Ratio Lower Upper
172 100
171 38.0 29.6 44.4
170 24.3 20.2 30.2





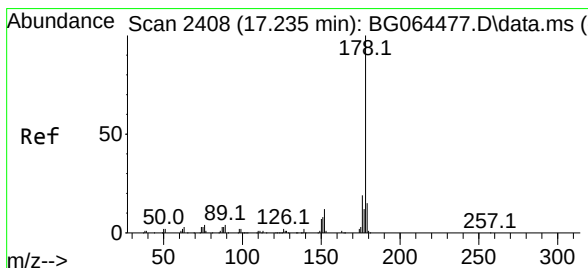
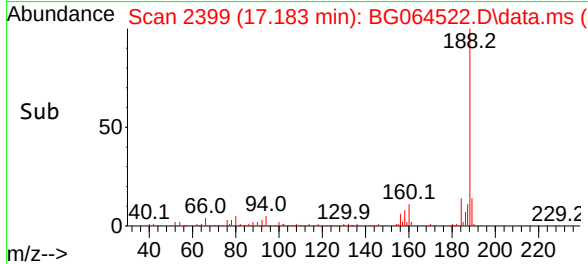
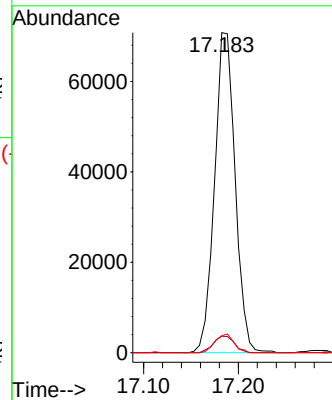
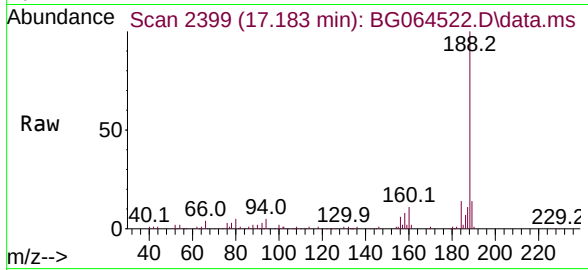
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.183 min Scan# 2399
Delta R.T. -0.003 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

Instrument :
BNA_G
ClientSampleId :
TP-3

Tgt Ion:188 Resp: 106973
Ion Ratio Lower Upper
188 100
94 5.1 3.7 5.5
80 5.3 4.5 6.7

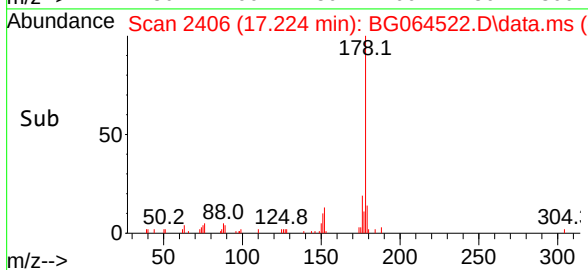
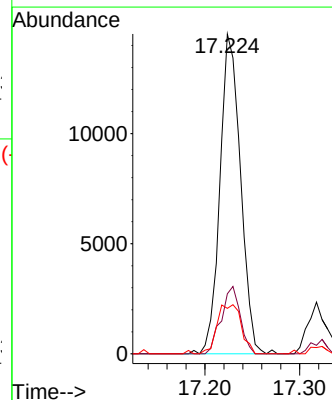
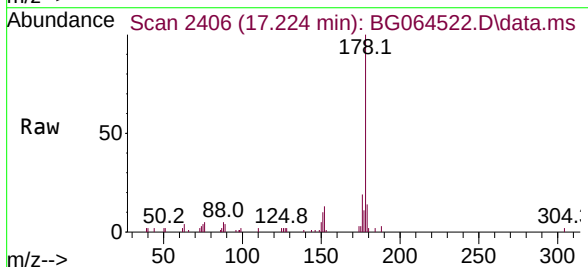
Manual Integrations
APPROVED

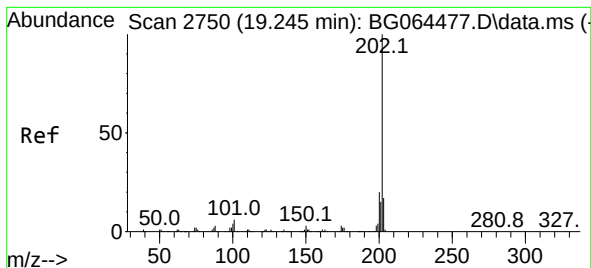
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#71
Phenanthrene
Concen: 3.914 ng
RT: 17.224 min Scan# 2406
Delta R.T. -0.003 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

Tgt Ion:178 Resp: 21893
Ion Ratio Lower Upper
178 100
176 18.8 15.2 22.8
179 14.2 11.8 17.6





#75

Fluoranthene

Concen: 10.112 ng

RT: 19.239 min Scan# 21

Delta R.T. 0.002 min

Lab File: BG064522.D

Acq: 16 Oct 2025 19:01

Instrument :

BNA_G

ClientSampleId :

TP-3

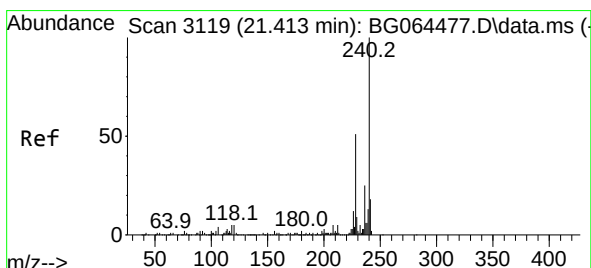
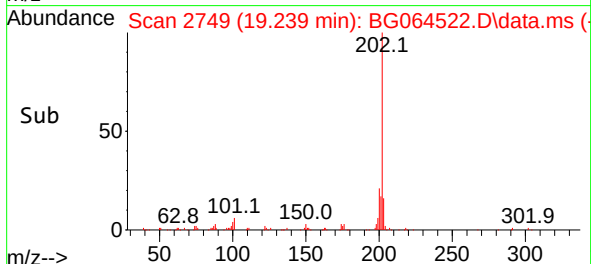
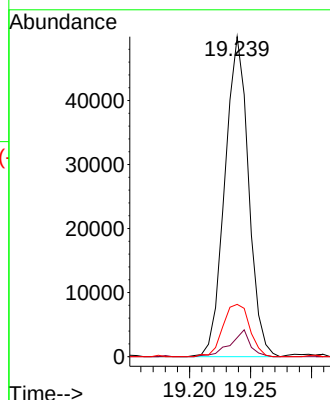
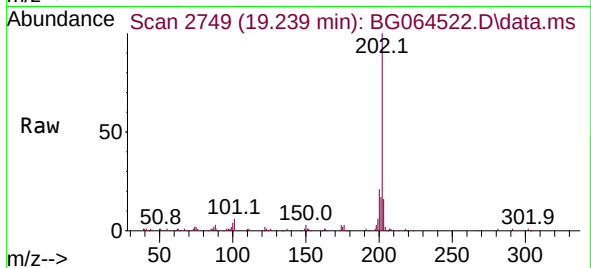
Tgt Ion:	202	Resp:	6757
Ion Ratio	Lower	Upper	
202	100		
101	5.9	0.0	25.7
203	16.3	0.0	36.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/17/2025

Supervised By :Jagrut Upadhyay 10/17/2025



#76

Chrysene-d12

Concen: 20.000 ng

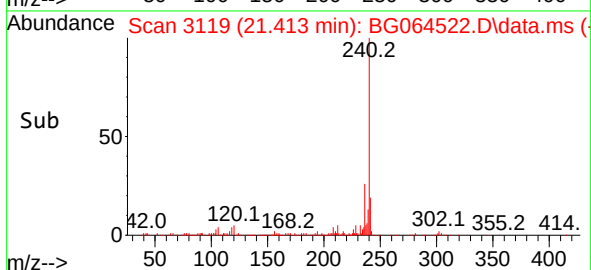
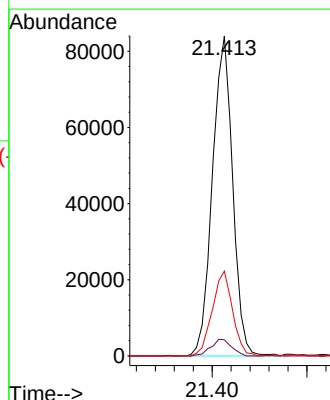
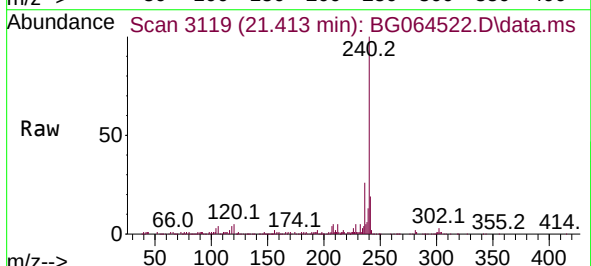
RT: 21.413 min Scan# 3119

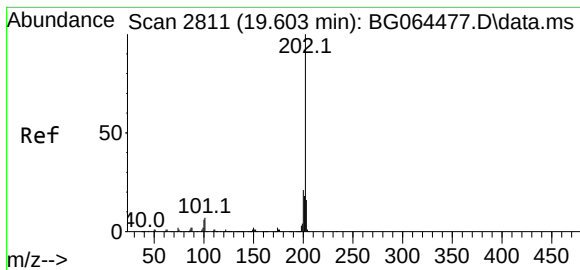
Delta R.T. 0.003 min

Lab File: BG064522.D

Acq: 16 Oct 2025 19:01

Tgt Ion:	240	Resp:	124431
Ion Ratio	Lower	Upper	
240	100		
120	5.0	4.3	6.5
236	26.5	20.4	30.6





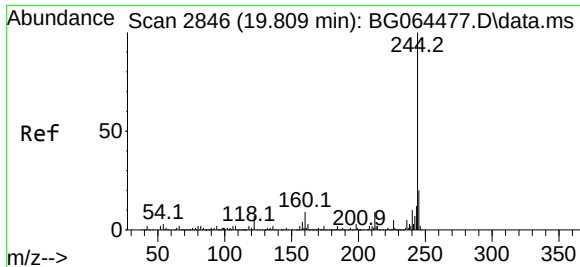
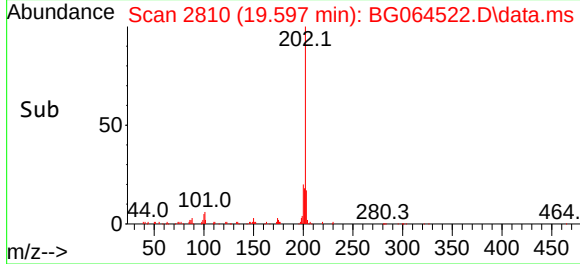
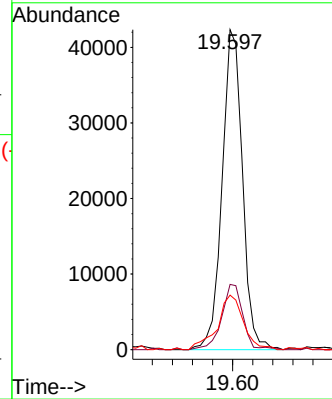
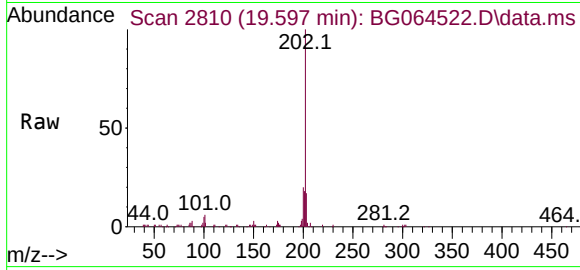
#78
Pyrene
Concen: 7.391 ng
RT: 19.597 min Scan# 2811
Delta R.T. -0.003 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

Instrument :
BNA_G
ClientSampleId :
TP-3

Tgt Ion:	202	Resp:	59683
Ion Ratio	Lower	Upper	
202	100		
200	20.4	17.0	25.4
203	17.0	13.0	19.4

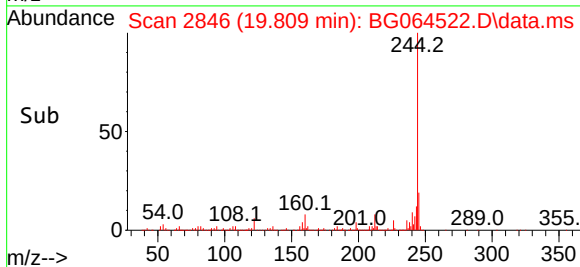
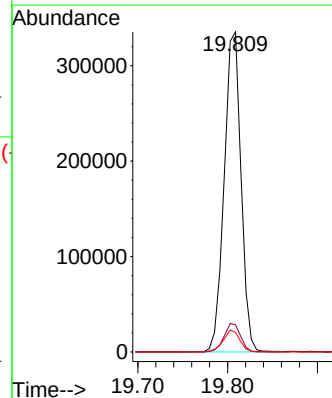
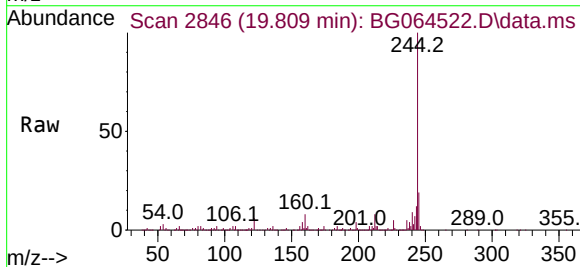
Manual Integrations
APPROVED

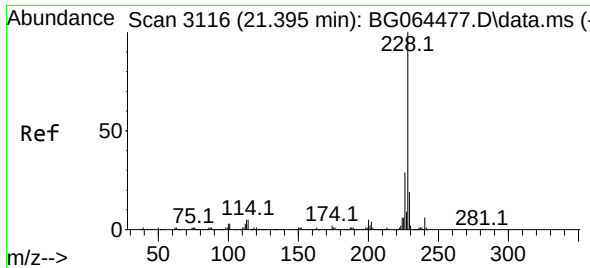
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#79
Terphenyl-d14
Concen: 66.771 ng
RT: 19.809 min Scan# 2846
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

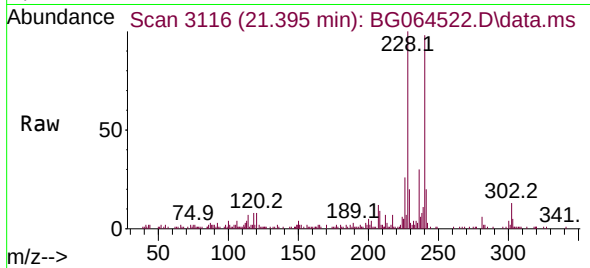
Tgt Ion:	244	Resp:	439019
Ion Ratio	Lower	Upper	
244	100		
212	8.5	7.0	10.6
122	6.1	5.6	8.4





#81
Benzo(a)anthracene
Concen: 4.872 ng
RT: 21.395 min Scan# 3116
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

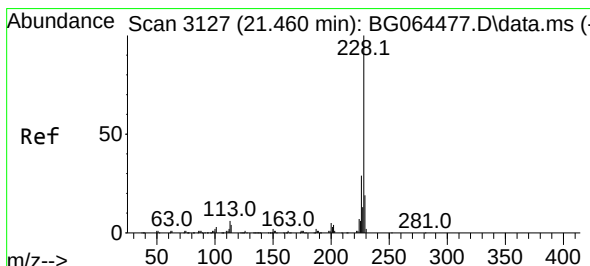
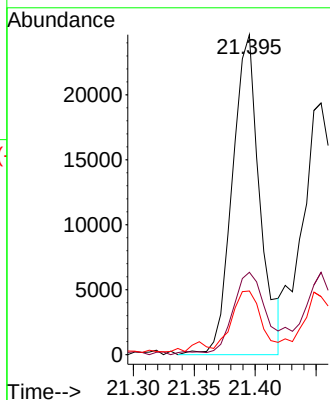
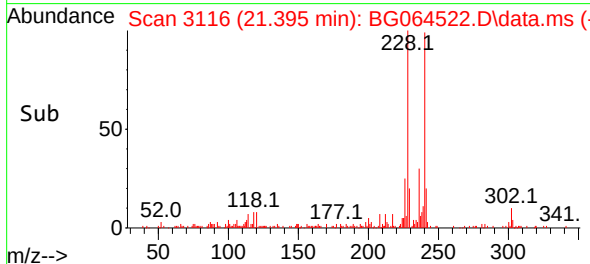
Instrument :
BNA_G
ClientSampleId :
TP-3



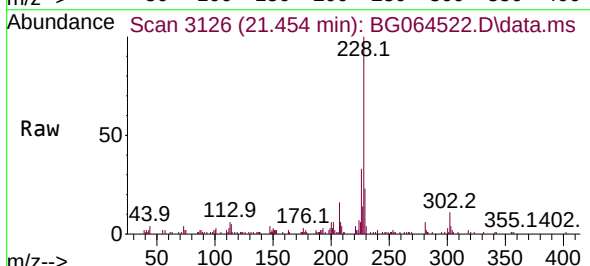
Tgt Ion:228 Resp: 3871
Ion Ratio Lower Upper
228 100
226 25.7 22.8 34.2
229 19.9 15.2 22.8

Manual Integrations
APPROVED

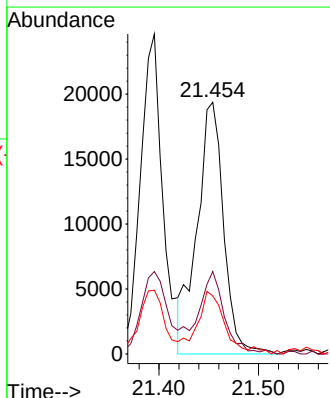
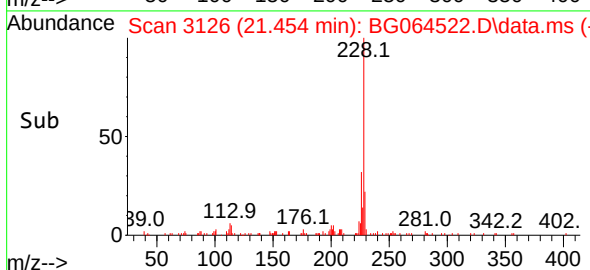
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025

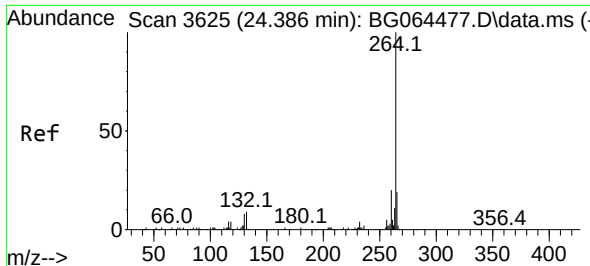


#83
Chrysene
Concen: 4.792 ng m
RT: 21.454 min Scan# 3126
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01



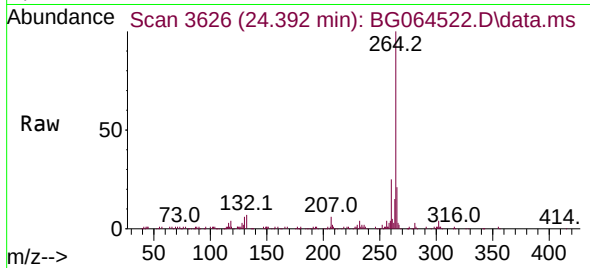
Tgt Ion:228 Resp: 36105
Ion Ratio Lower Upper
228 100
226 32.8 22.8 34.2
229 23.0 15.4 23.0#





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.392 min Scan# 30
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

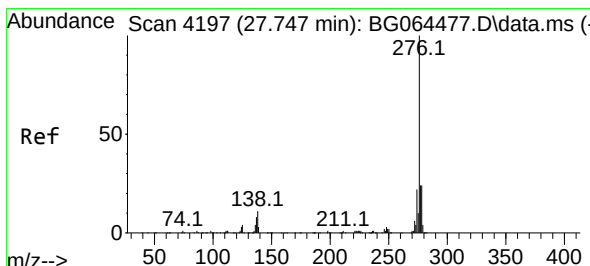
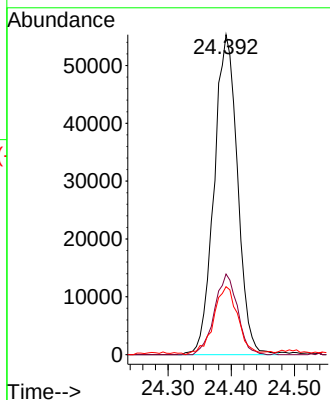
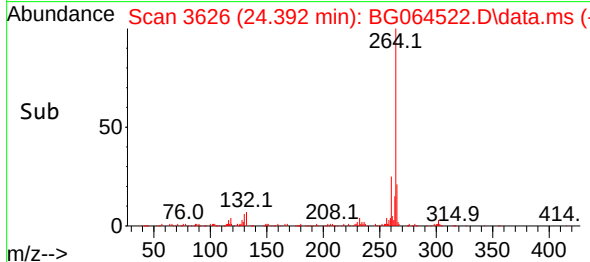
Instrument :
BNA_G
ClientSampleId :
TP-3



Tgt Ion:264 Resp: 142325
Ion Ratio Lower Upper
264 100
260 25.2 16.2 24.4#
265 21.2 15.0 22.4#

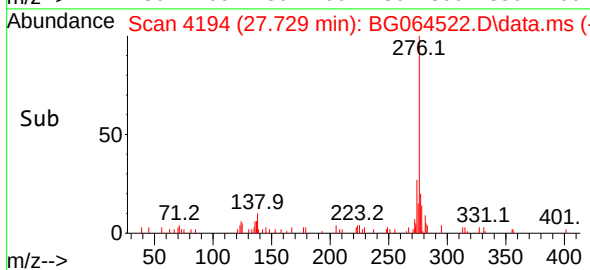
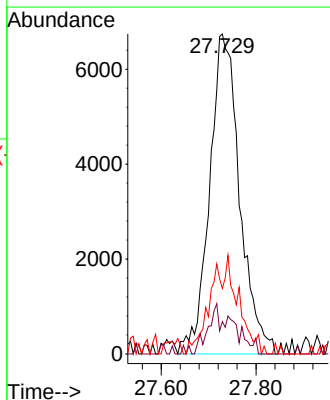
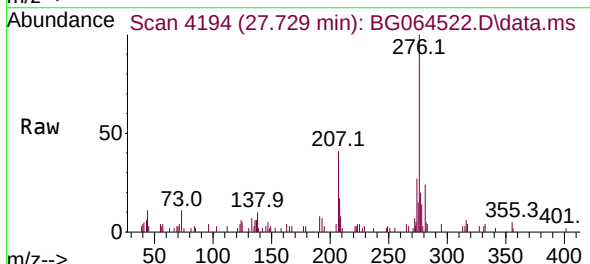
Manual Integrations
APPROVED

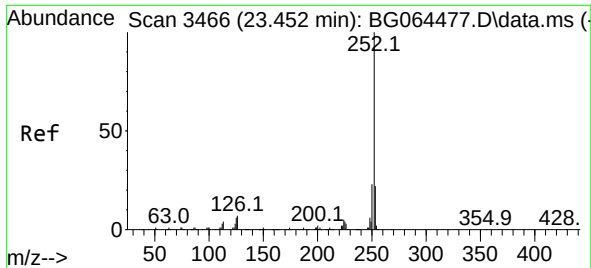
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 3.002 ng
RT: 27.729 min Scan# 4194
Delta R.T. -0.003 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

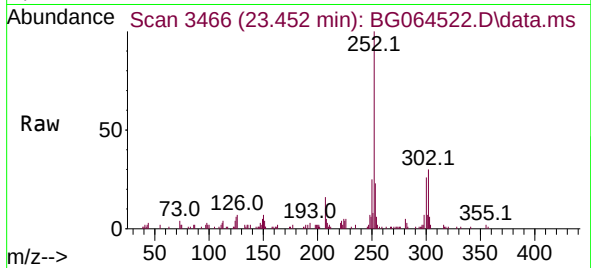
Tgt Ion:276 Resp: 29735
Ion Ratio Lower Upper
276 100
138 0.0 10.8 16.2#
277 14.7 20.3 30.5#





#88
Benzo(b)fluoranthene
Concen: 6.282 ng
RT: 23.452 min Scan# 3466
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

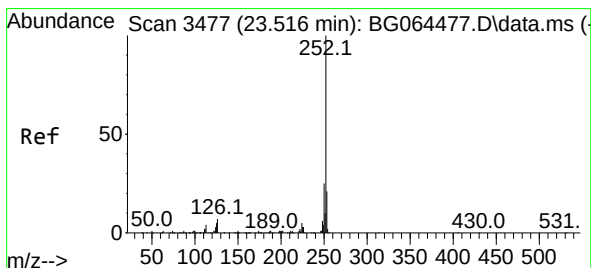
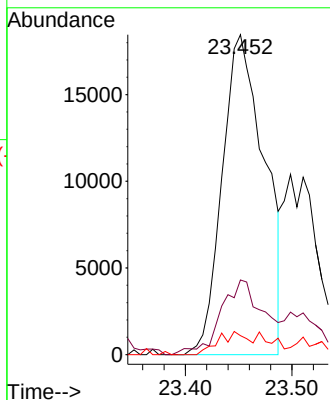
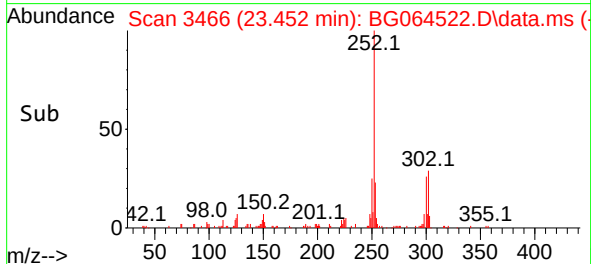
Instrument :
BNA_G
ClientSampleId :
TP-3



Tgt Ion:252 Resp: 50862
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 5.9 4.5 6.7

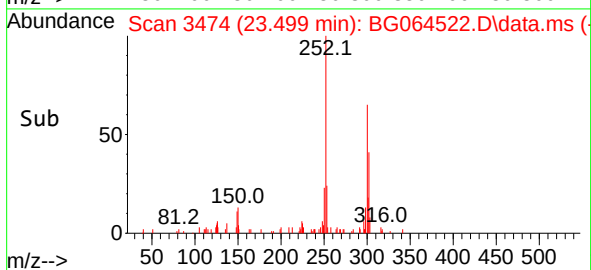
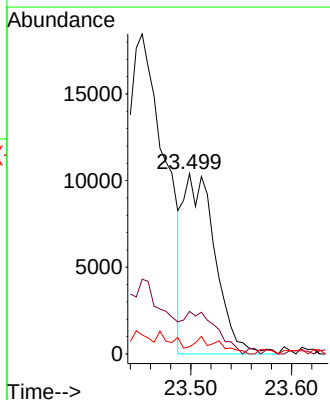
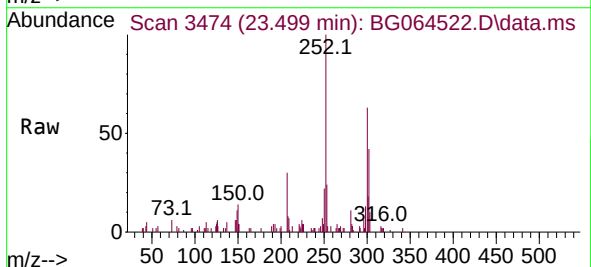
Manual Integrations
APPROVED

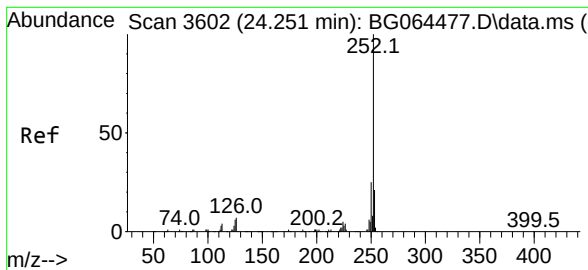
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#89
Benzo(k)fluoranthene
Concen: 2.808 ng m
RT: 23.499 min Scan# 3474
Delta R.T. -0.009 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

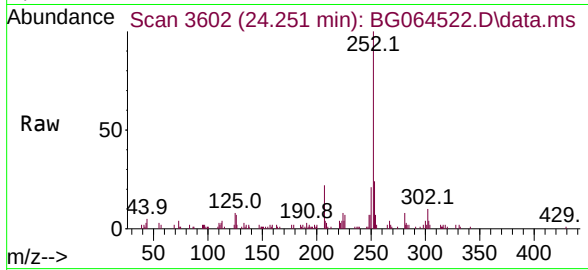
Tgt Ion:252 Resp: 22898
Ion Ratio Lower Upper
252 100
253 23.6 17.4 26.2
125 5.0 4.0 6.0





#90
Benzo(a)pyrene
Concen: 5.318 ng
RT: 24.251 min Scan# 3602
Delta R.T. 0.002 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01

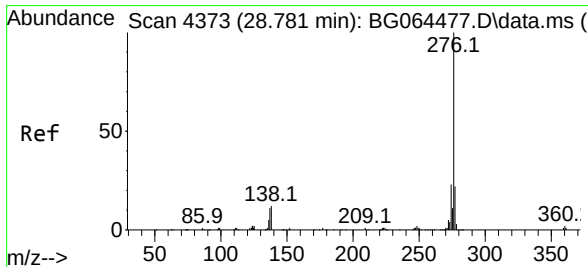
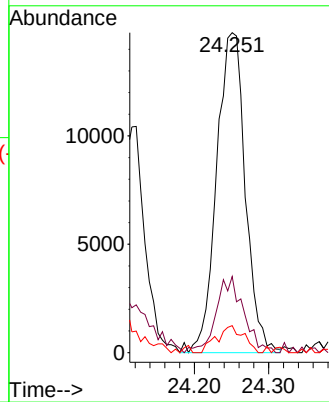
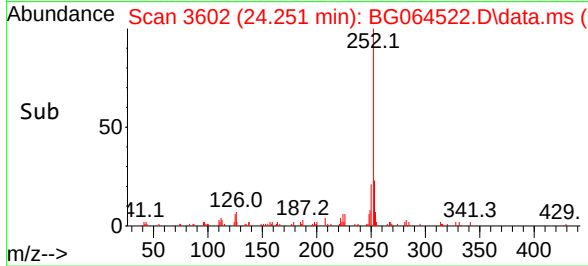
Instrument :
BNA_G
ClientSampleId :
TP-3



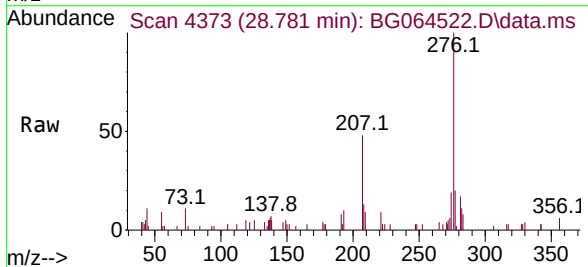
Tgt Ion:252 Resp: 39688
Ion Ratio Lower Upper
252 100
253 23.8 17.1 25.7
125 8.5 4.6 6.8

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#92
Benzo(g,h,i)perylene
Concen: 3.573 ng
RT: 28.781 min Scan# 4373
Delta R.T. 0.014 min
Lab File: BG064522.D
Acq: 16 Oct 2025 19:01



Tgt Ion:276 Resp: 27505
Ion Ratio Lower Upper
276 100
277 19.9 17.8 26.6
138 12.0 9.4 14.0

