

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
 Data File : BG064615.D
 Acq On : 29 Oct 2025 00:01
 Operator : RC/JU
 Sample : Q3457-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TR-05-102425

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/29/2025
 Supervised By :mohammad ahmed 11/05/2025

Quant Time: Nov 04 05:55:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 03 18:16:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.215	152	48084	20.000	ng	0.00
21) Naphthalene-d8	11.041	136	182913	20.000	ng	0.00
39) Acenaphthene-d10	14.836	164	131043	20.000	ng	0.00
64) Phenanthrene-d10	17.574	188	267186	20.000	ng	0.00
76) Chrysene-d12	21.852	240	310405	20.000	ng	0.00
86) Perylene-d12	25.195	264	337294	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.747	112	64735	22.597	ng	0.00
7) Phenol-d6	7.345	99	83215	21.169	ng	0.00
23) Nitrobenzene-d5	9.378	82	48656	15.977	ng	0.00
42) 2,4,6-Tribromophenol	16.311	330	35083	18.549	ng	0.00
45) 2-Fluorobiphenyl	13.467	172	130831	15.133	ng	0.00
79) Terphenyl-d14	20.165	244	207066	12.589	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.615	178	165334	11.315	ng	99
72) Anthracene	17.709	178	32494	2.186	ng	98
75) Fluoranthene	19.613	202	296746	16.212	ng	99
78) Pyrene	19.971	202	295415	14.567	ng	99
81) Benzo(a)anthracene	21.828	228	163865	7.962	ng	96
83) Chrysene	21.899	228	161173	8.230	ng	96
87) Indeno(1,2,3-cd)pyrene	29.014	276	102602	4.135	ng	94
88) Benzo(b)fluoranthene	24.137	252	218210	10.550	ng	98
89) Benzo(k)fluoranthene	24.190	252	59405m	2.870	ng	
90) Benzo(a)pyrene	25.030	252	149690	7.873	ng	98
92) Benzo(g,h,i)perylene	30.201	276	101839	5.288	ng	96

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

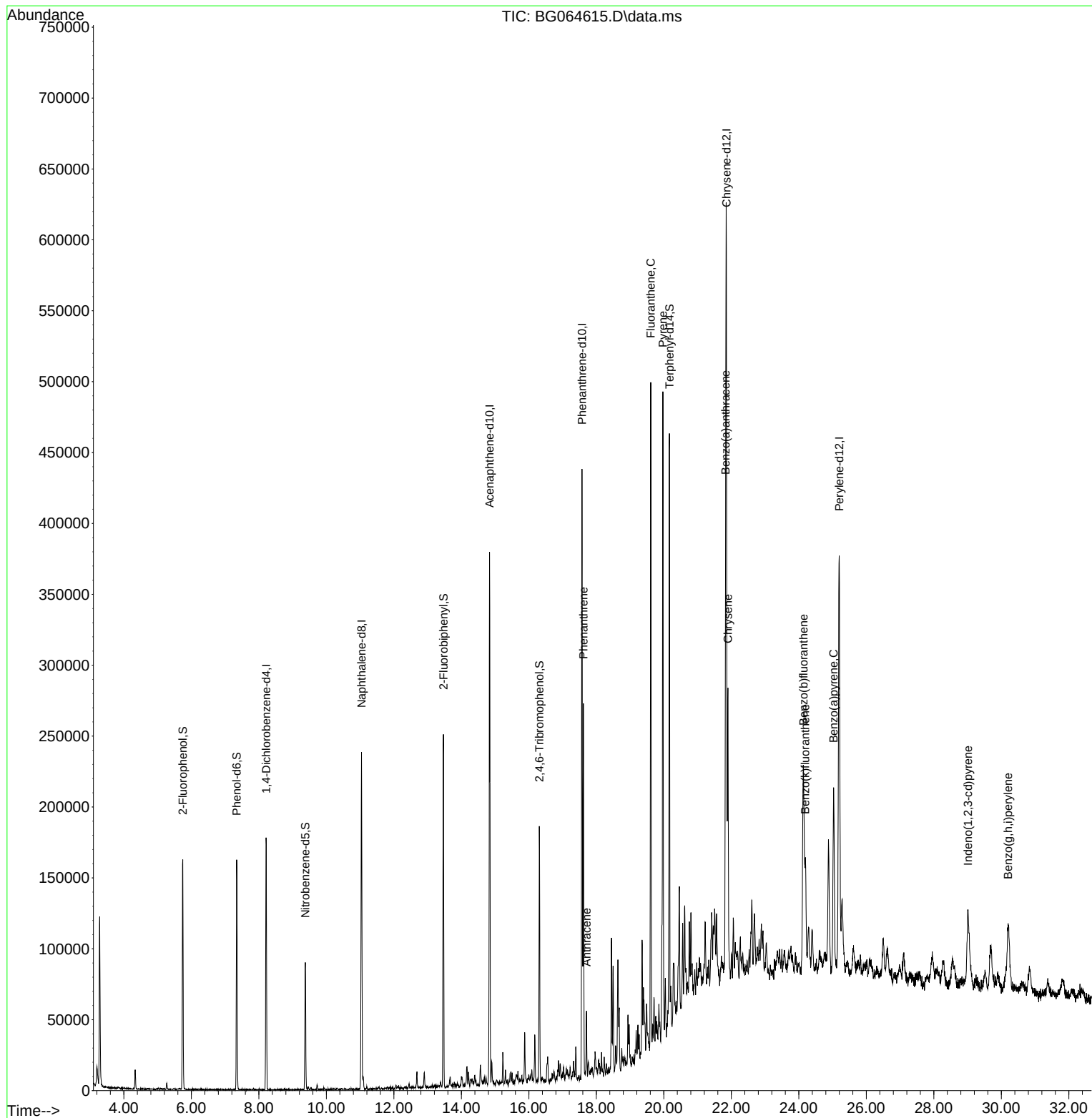
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Data File : BG064615.D
Acq On : 29 Oct 2025 00:01
Operator : RC/JU
Sample : Q3457-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

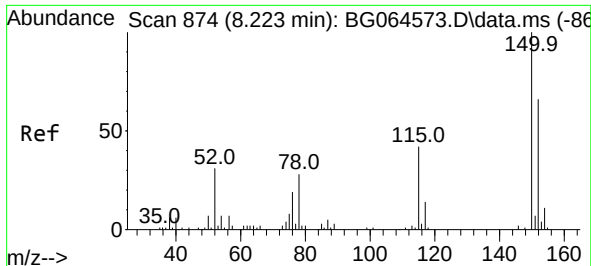
Instrument :
BNA_G
ClientSampleId :
TR-05-102425

Quant Time: Nov 04 05:55:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.215 min Scan# 81
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Instrument :

BNA_G

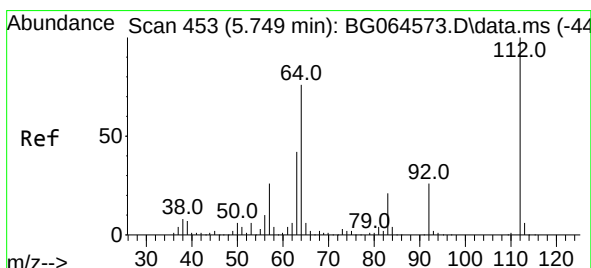
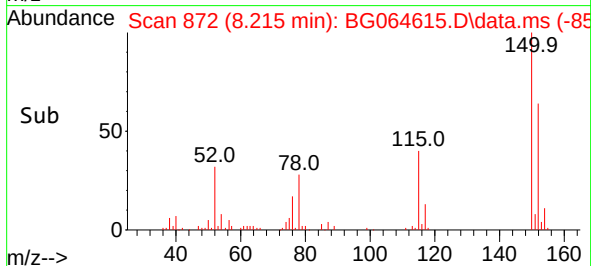
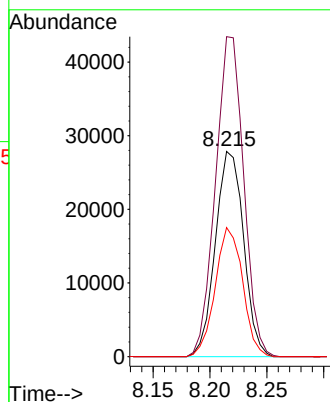
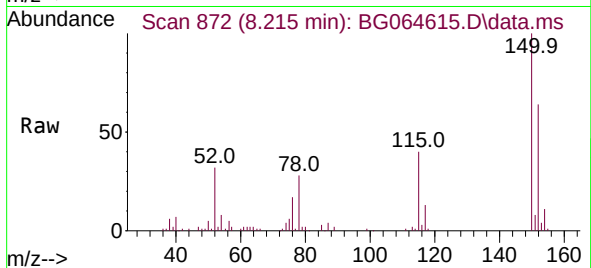
ClientSampleId :

TR-05-102425

Tgt Ion:152 Resp: 48084
Ion Ratio Lower Upper
152 100
150 155.9 122.2 183.4
115 62.9 50.8 76.2

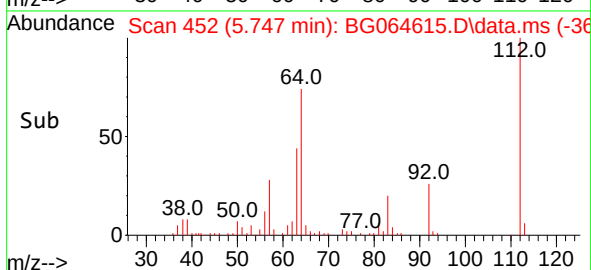
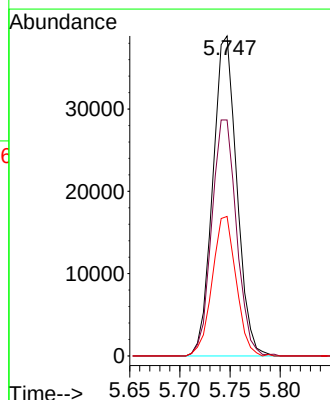
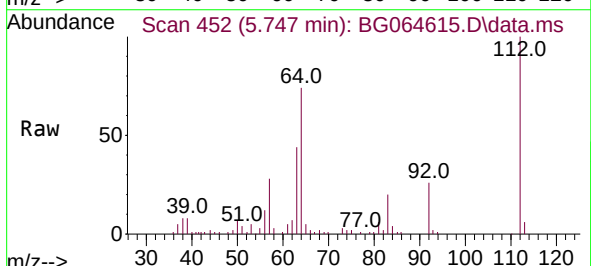
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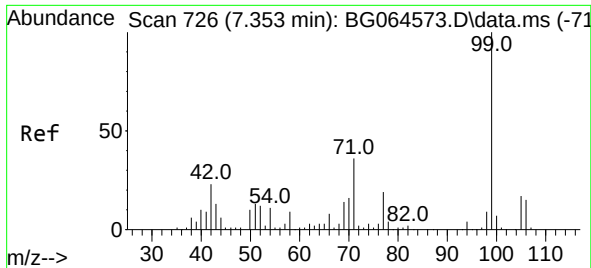
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#5
2-Fluorophenol
Concen: 22.597 ng
RT: 5.747 min Scan# 452
Delta R.T. -0.002 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Tgt Ion:112 Resp: 64735
Ion Ratio Lower Upper
112 100
64 73.7 60.7 91.1
63 43.6 33.4 50.0





#7
Phenol-d6
Concen: 21.169 ng
RT: 7.345 min Scan# 71
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Instrument :

BNA_G

ClientSampleId :

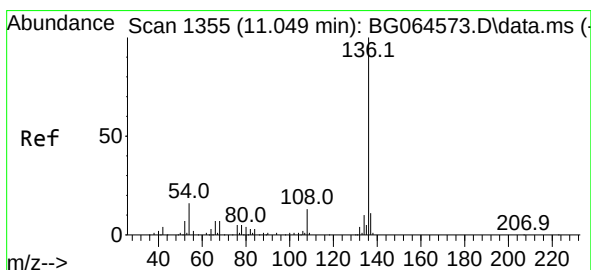
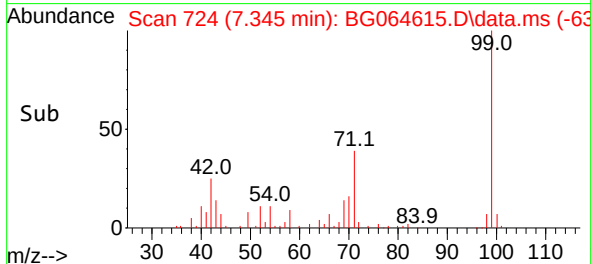
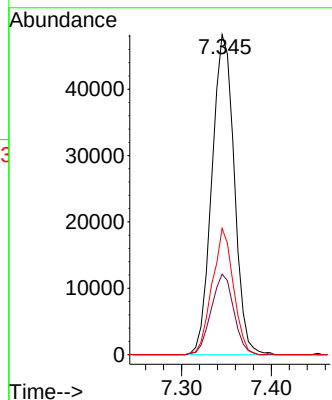
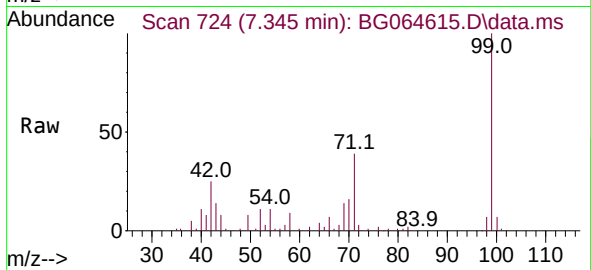
TR-05-102425

Tgt Ion: 99 Resp: 83215
Ion Ratio Lower Upper
99 100
42 25.1 18.3 27.5
71 39.4 28.6 43.0

Manual Integrations

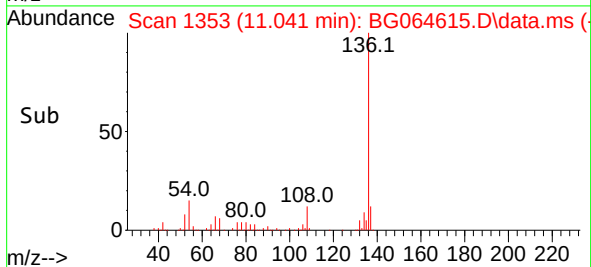
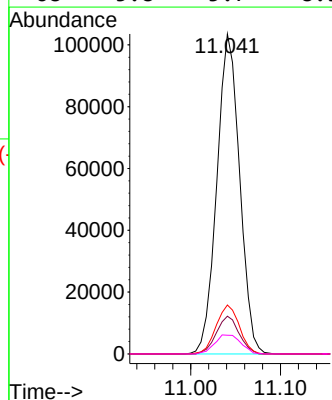
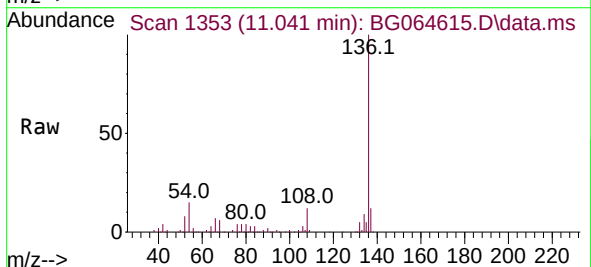
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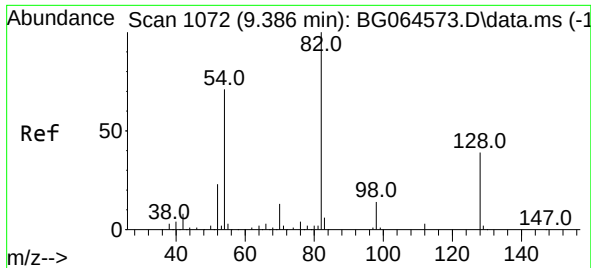
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.041 min Scan# 1353
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Tgt Ion:136 Resp: 182913
Ion Ratio Lower Upper
136 100
137 11.8 9.2 13.8
54 15.3 12.6 19.0
68 5.8 5.7 8.5





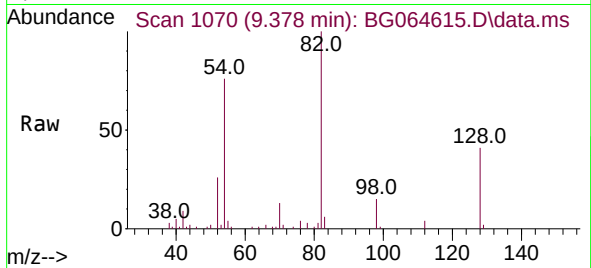
#23
Nitrobenzene-d5
Concen: 15.977 ng
RT: 9.378 min Scan# 1072
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Instrument :

BNA_G

ClientSampleId :

TR-05-102425



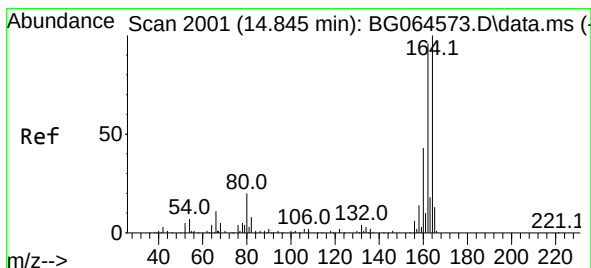
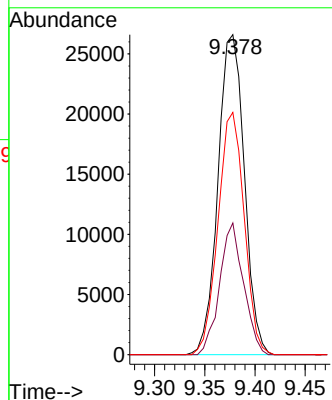
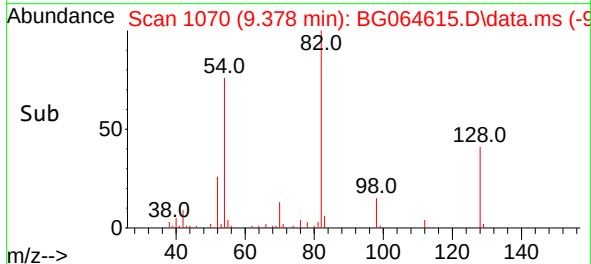
Tgt Ion: 82 Resp: 48656
Ion Ratio Lower Upper
82 100
128 41.1 31.3 46.9
54 75.7 56.6 84.8

Manual Integrations

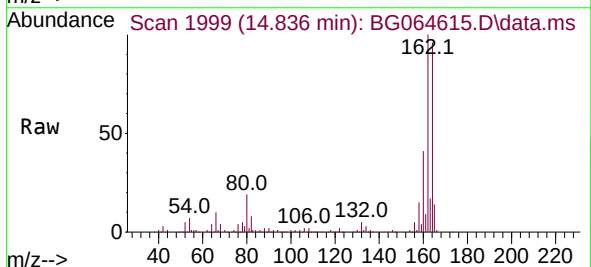
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Reviewed By :Rahul Chavli 10/29/2025

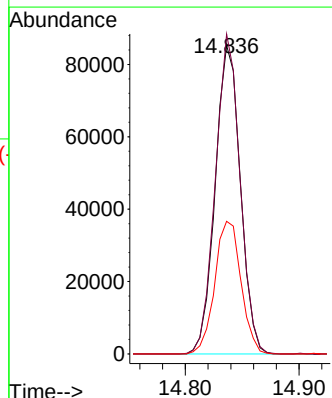
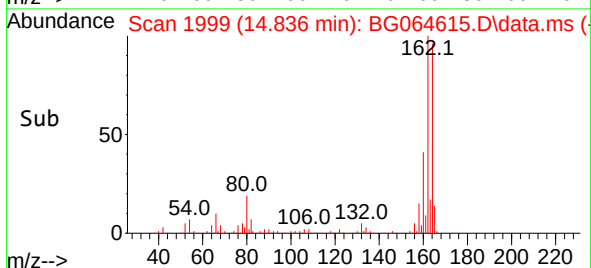
Supervised By :mohammad ahmed 11/05/2025

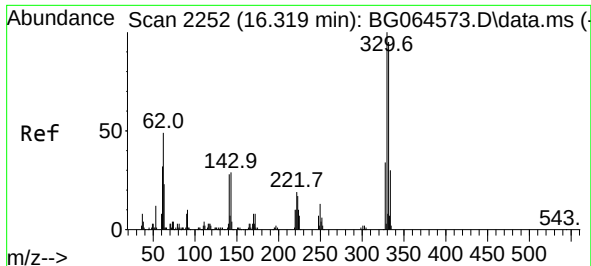


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.836 min Scan# 1999
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01



Tgt Ion:164 Resp: 131043
Ion Ratio Lower Upper
164 100
162 103.7 77.0 115.6
160 42.9 34.4 51.6





#42
2,4,6-Tribromophenol
Concen: 18.549 ng
RT: 16.311 min Scan# 21
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Instrument :

BNA_G

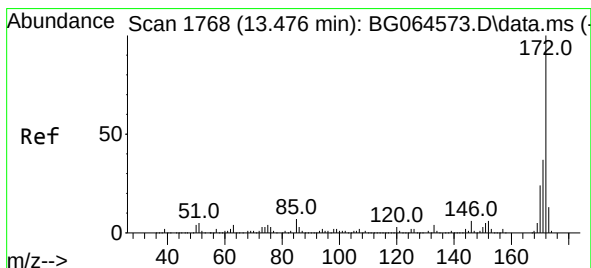
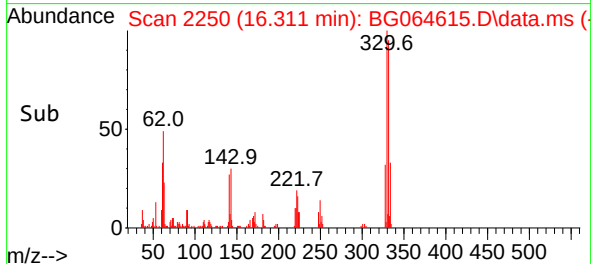
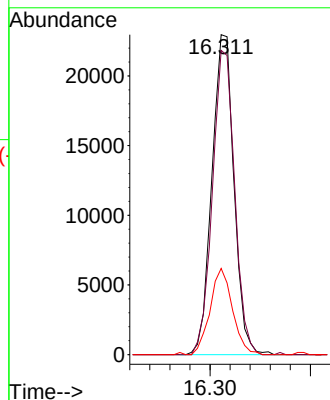
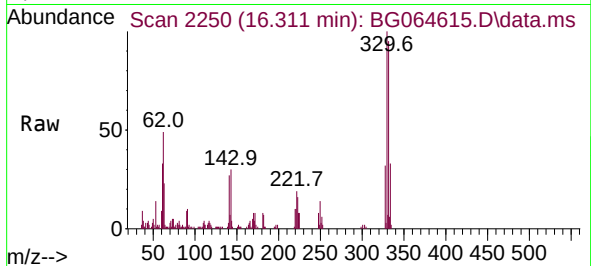
ClientSampleId :

TR-05-102425

Tgt Ion:330 Resp: 35083
Ion Ratio Lower Upper
330 100
332 95.6 78.0 117.0
141 27.5 21.8 32.6

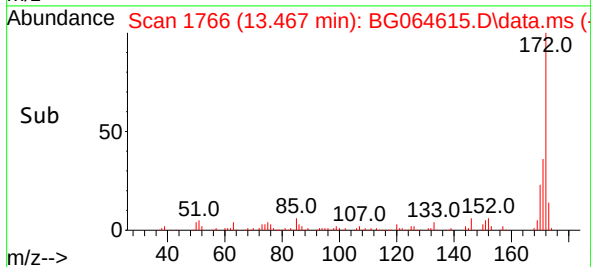
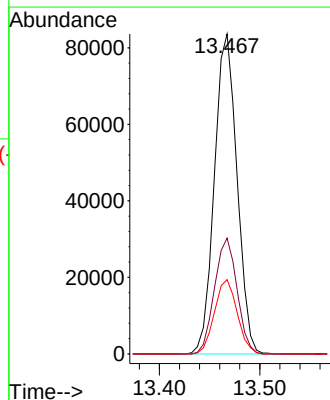
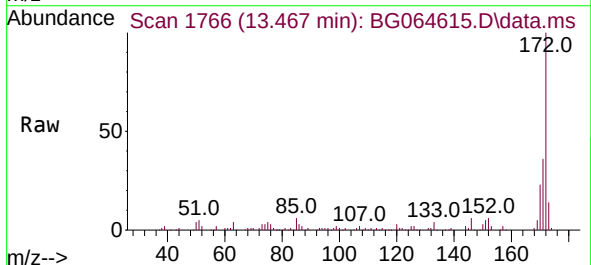
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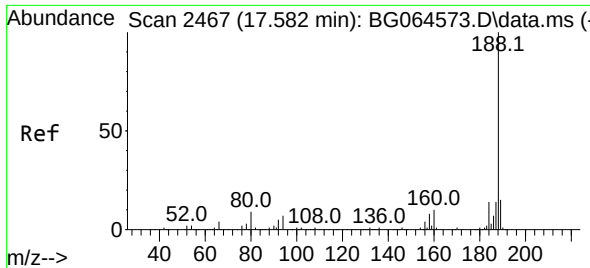
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#45
2-Fluorobiphenyl
Concen: 15.133 ng
RT: 13.467 min Scan# 1766
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Tgt Ion:172 Resp: 130831
Ion Ratio Lower Upper
172 100
171 36.2 29.4 44.0
170 23.3 19.1 28.7





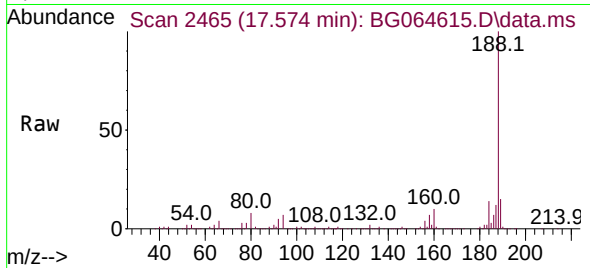
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.574 min Scan# 2465
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Instrument :

BNA_G

ClientSampleId :

TR-05-102425

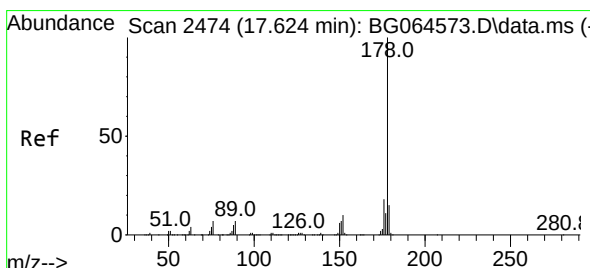
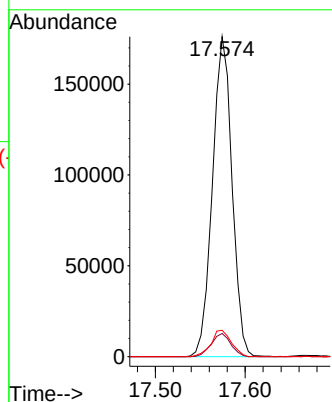
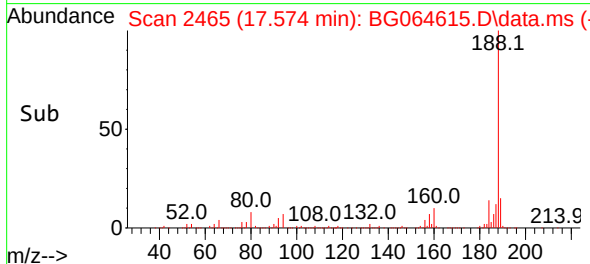


Tgt Ion:188 Resp: 267186
Ion Ratio Lower Upper
188 100
94 7.2 5.7 8.5
80 8.2 6.8 10.2

Manual Integrations

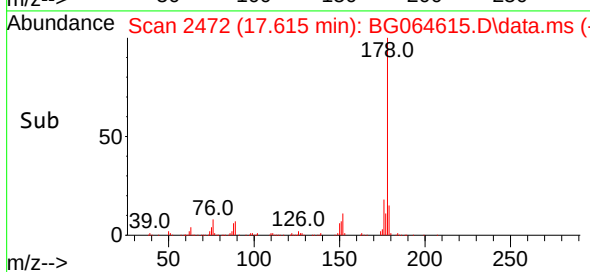
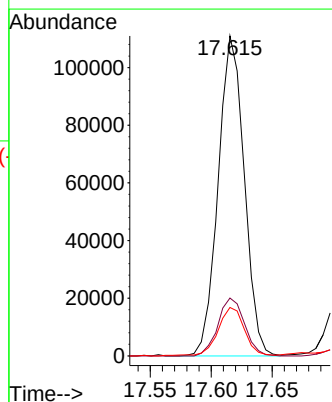
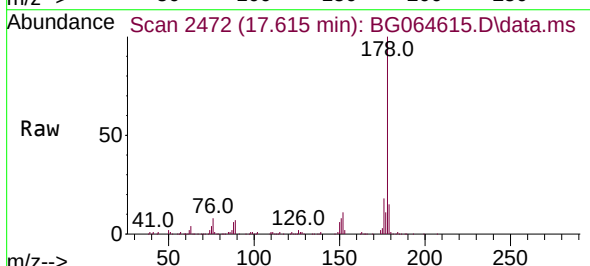
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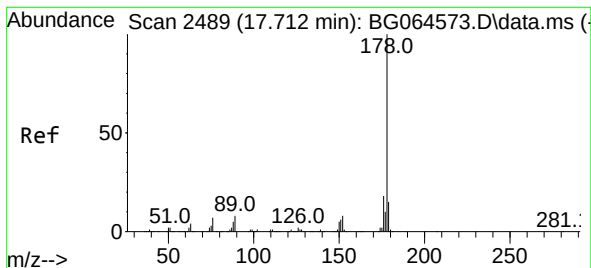
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#71
Phenanthrene
Concen: 11.315 ng
RT: 17.615 min Scan# 2472
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

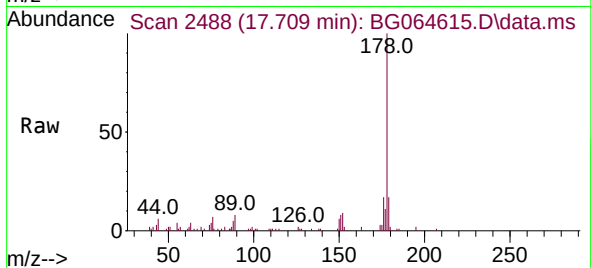
Tgt Ion:178 Resp: 165334
Ion Ratio Lower Upper
178 100
176 18.1 14.7 22.1
179 15.1 12.2 18.4





#72
 Anthracene
 Concen: 2.186 ng
 RT: 17.709 min Scan# 2489
 Delta R.T. -0.002 min
 Lab File: BG064615.D
 Acq: 29 Oct 2025 00:01

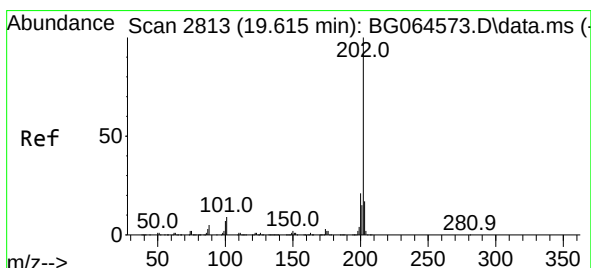
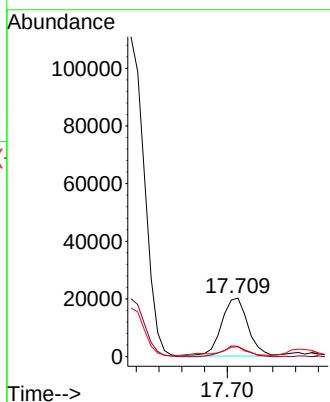
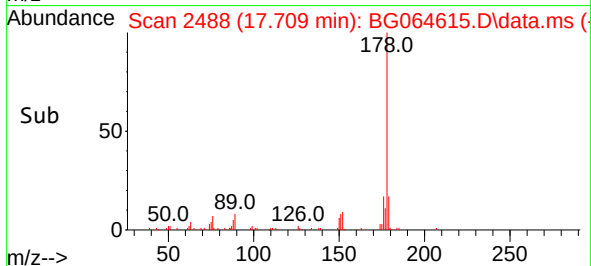
Instrument :
 BNA_G
 ClientSampleId :
 TR-05-102425



Tgt Ion:178 Resp: 32494
 Ion Ratio Lower Upper
 178 100
 176 17.3 14.4 21.6
 179 16.9 12.4 18.6

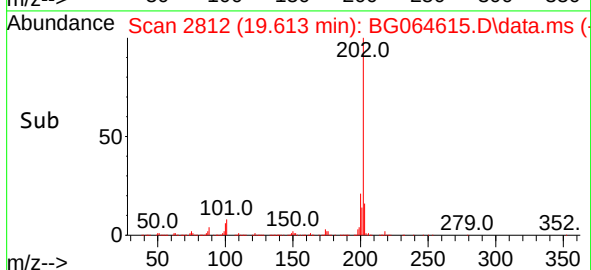
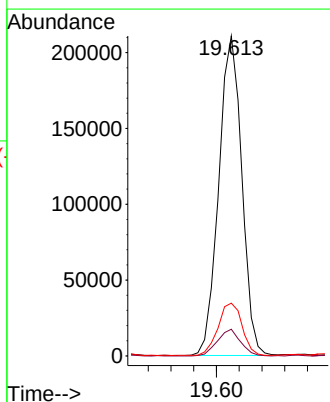
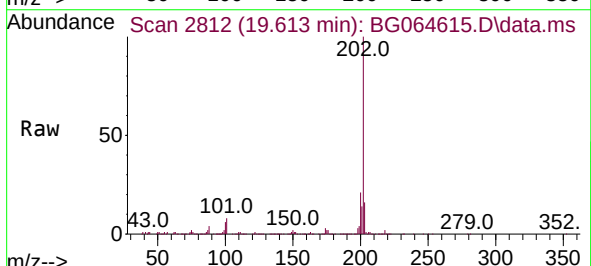
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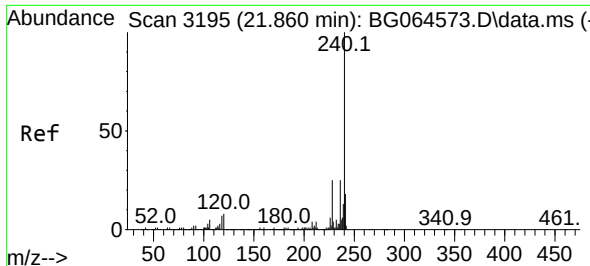
Reviewed By :Rahul Chavli 10/29/2025
 Supervised By :mohammad ahmed 11/05/2025



#75
 Fluoranthene
 Concen: 16.212 ng
 RT: 19.613 min Scan# 2812
 Delta R.T. -0.002 min
 Lab File: BG064615.D
 Acq: 29 Oct 2025 00:01

Tgt Ion:202 Resp: 296746
 Ion Ratio Lower Upper
 202 100
 101 8.3 0.0 28.7
 203 16.5 0.0 37.0





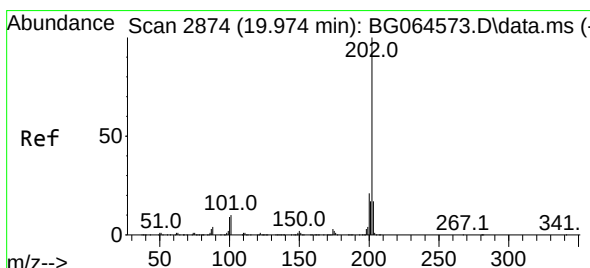
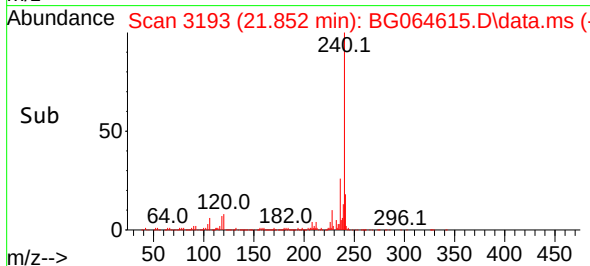
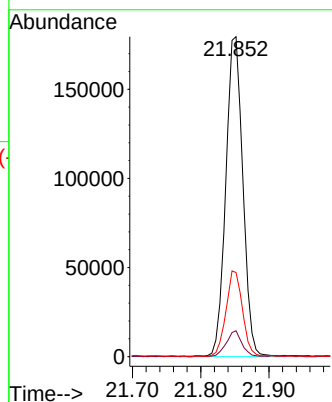
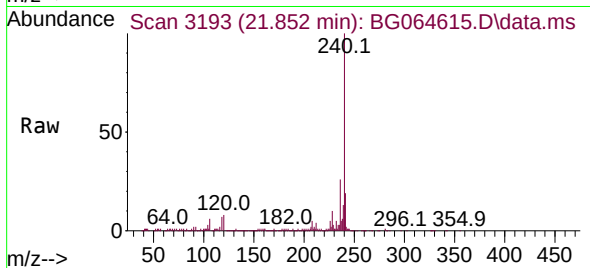
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Chrysene-d12
Concen: 20.000 ng
RT: 21.852 min Scan# 3195
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Instrument :
BNA_G
ClientSampleId :
TR-05-102425

Tgt Ion:240 Resp: 310405
Ion Ratio Lower Upper
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120 8.1 6.5 9.7
236 26.3 20.2 30.2

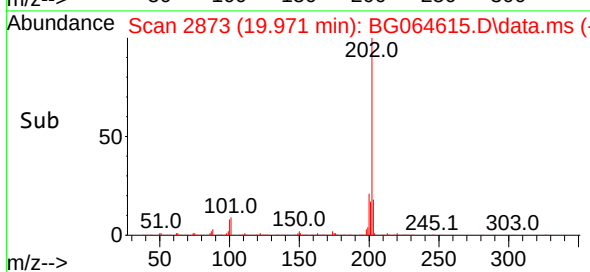
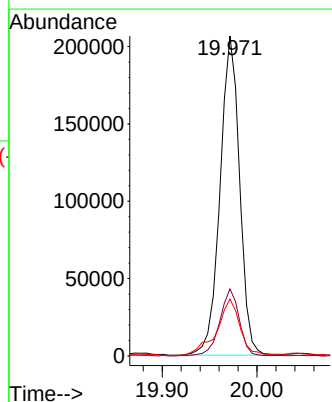
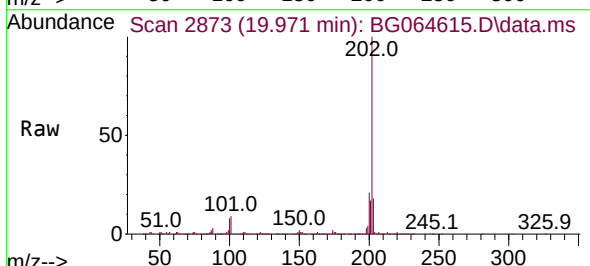
Manual Integrations
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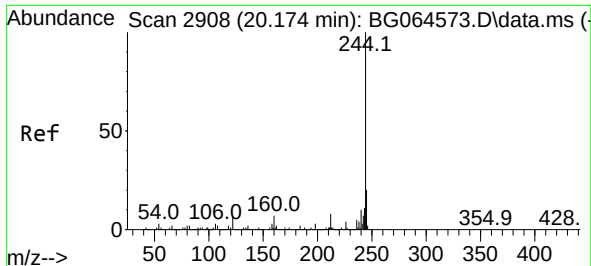
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#78
Pyrene
Concen: 14.567 ng
RT: 19.971 min Scan# 2873
Delta R.T. -0.002 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Tgt Ion:202 Resp: 295415
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.7 13.8 20.6





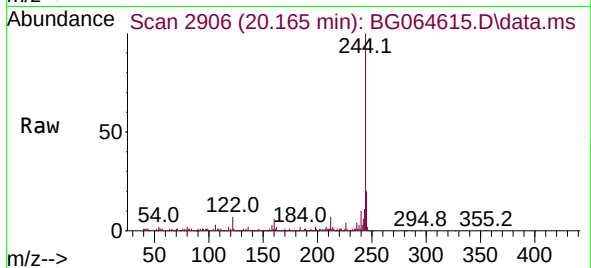
#79
 Terphenyl-d14
 Concen: 12.589 ng
 RT: 20.165 min Scan# 2908
 Delta R.T. -0.008 min
 Lab File: BG064615.D
 Acq: 29 Oct 2025 00:01

Instrument :

BNA_G

ClientSampleId :

TR-05-102425

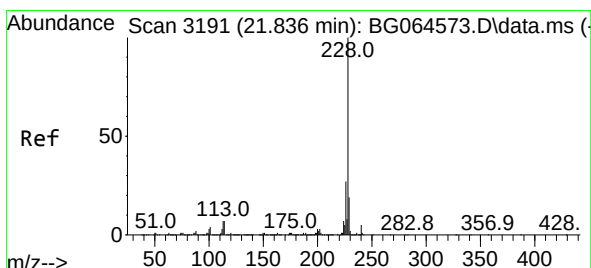
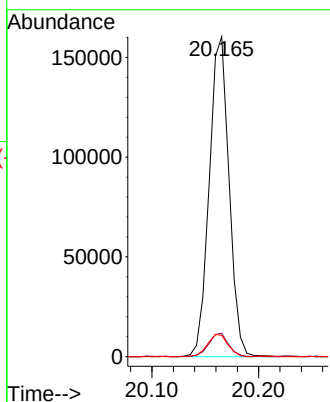
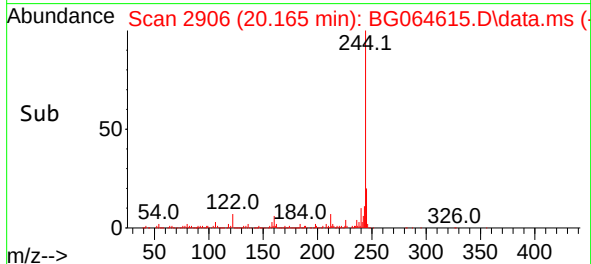


Tgt Ion:244 Resp: 207066
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.1 9.1
 122 6.6 5.6 8.4

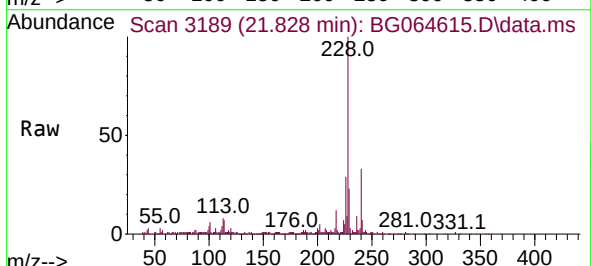
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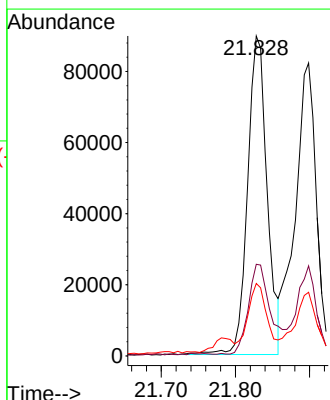
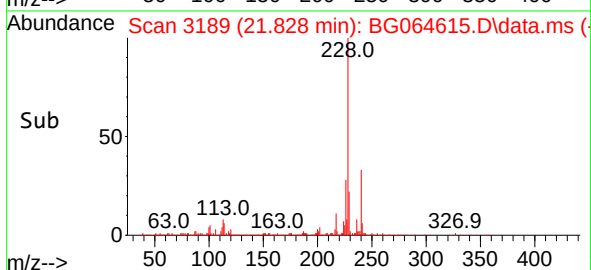
Reviewed By :Rahul Chavli 10/29/2025
 Supervised By :mohammad ahmed 11/05/2025

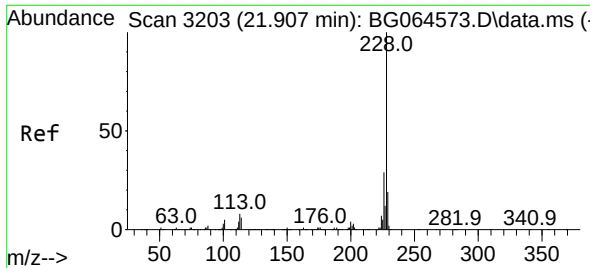


#81
 Benzo(a)anthracene
 Concen: 7.962 ng
 RT: 21.828 min Scan# 3189
 Delta R.T. -0.008 min
 Lab File: BG064615.D
 Acq: 29 Oct 2025 00:01



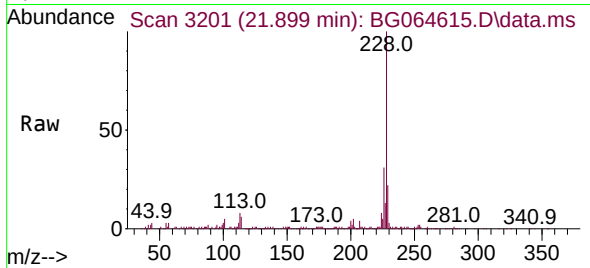
Tgt Ion:228 Resp: 163865
 Ion Ratio Lower Upper
 228 100
 226 28.6 21.9 32.9
 229 22.6 15.6 23.4





#83
Chrysene
Concen: 8.230 ng
RT: 21.899 min Scan# 31
Delta R.T. -0.008 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

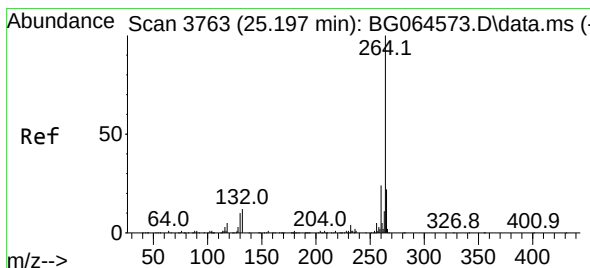
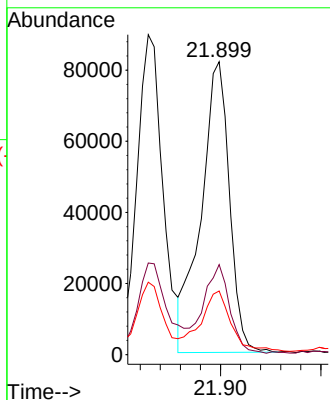
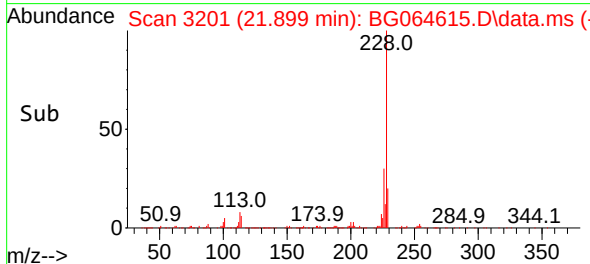
Instrument :
BNA_G
ClientSampleId :
TR-05-102425



Tgt Ion:228 Resp: 161173
Ion Ratio Lower Upper
228 100
226 30.7 23.3 34.9
229 21.7 15.2 22.8

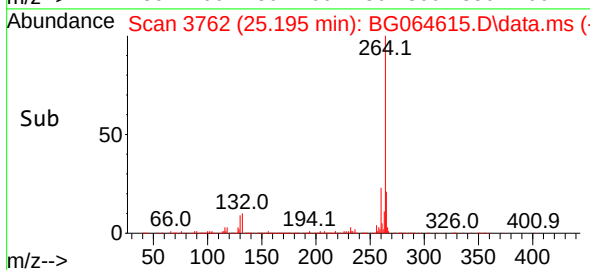
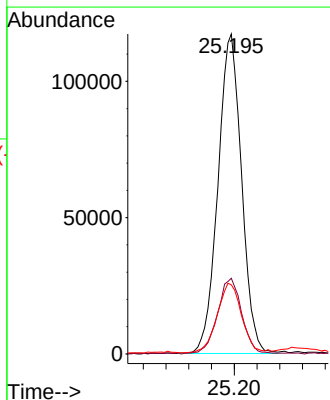
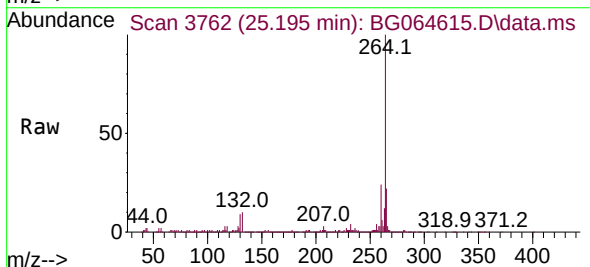
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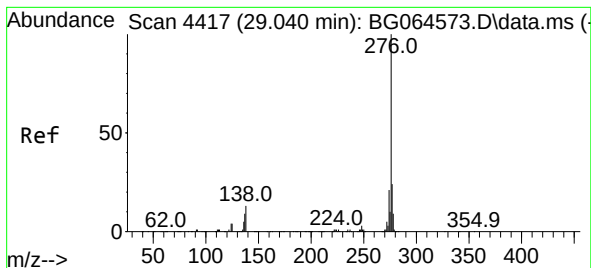
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.195 min Scan# 3762
Delta R.T. -0.002 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Tgt Ion:264 Resp: 337294
Ion Ratio Lower Upper
264 100
260 23.6 19.0 28.4
265 21.6 17.6 26.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.135 ng

RT: 29.014 min Scan# 4417

Delta R.T. -0.026 min

Lab File: BG064615.D

Acq: 29 Oct 2025 00:01

Instrument :

BNA_G

ClientSampleId :

TR-05-102425

Tgt Ion:276 Resp: 102602

Ion Ratio Lower Upper

276 100

138 11.7 10.8 16.2

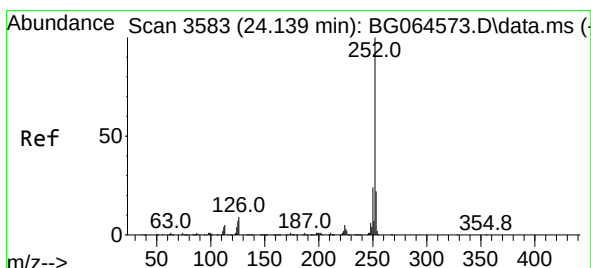
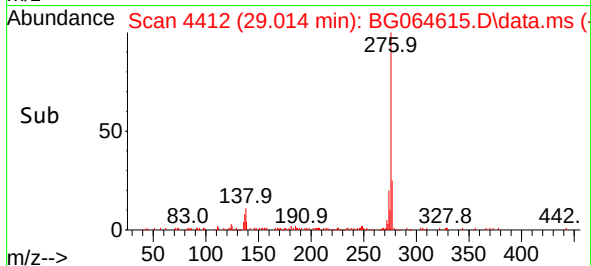
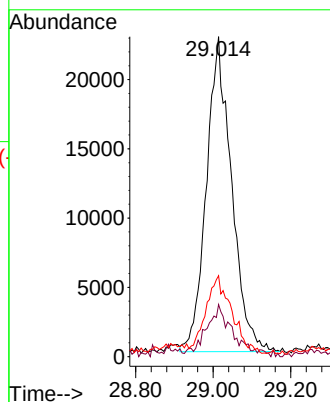
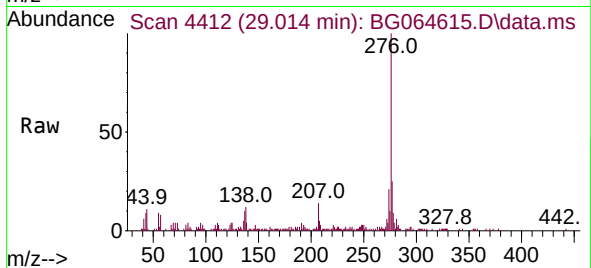
277 21.6 20.1 30.1

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Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 11/05/2025



#88

Benzo(b)fluoranthene

Concen: 10.550 ng

RT: 24.137 min Scan# 3582

Delta R.T. -0.002 min

Lab File: BG064615.D

Acq: 29 Oct 2025 00:01

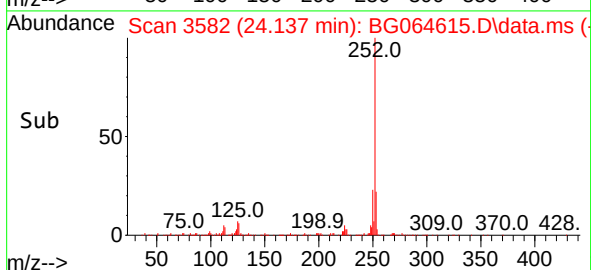
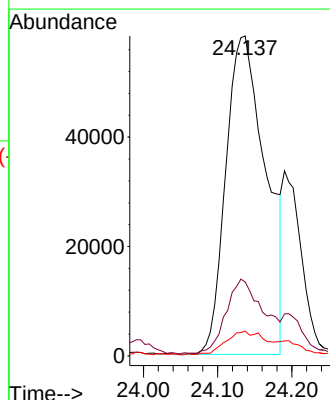
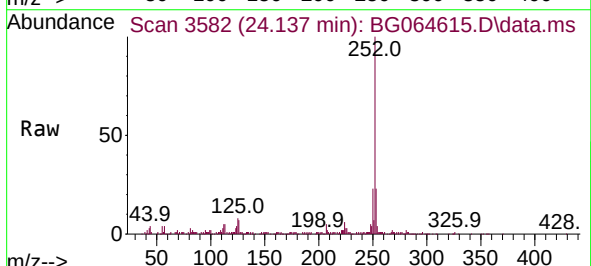
Tgt Ion:252 Resp: 218210

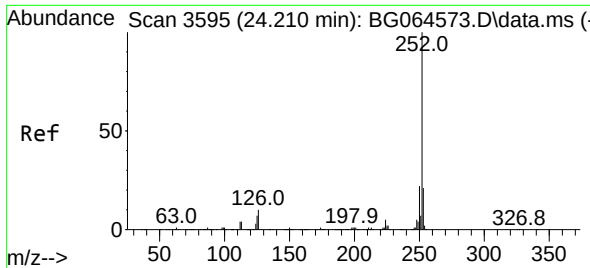
Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

125 7.8 5.6 8.4





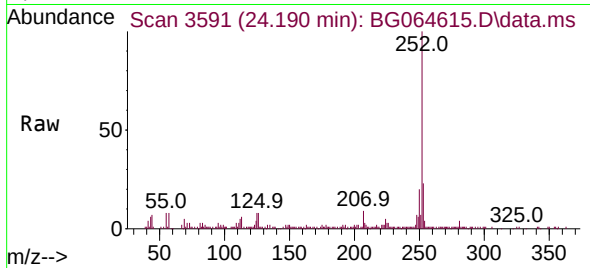
#89
Benzo(k)fluoranthene
Concen: 2.870 ng m
RT: 24.190 min Scan# 3595
Delta R.T. -0.020 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

Instrument :

BNA_G

ClientSampleId :

TR-05-102425

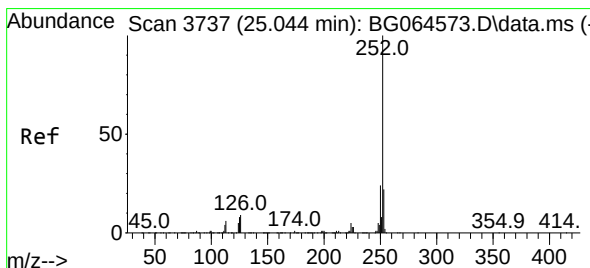
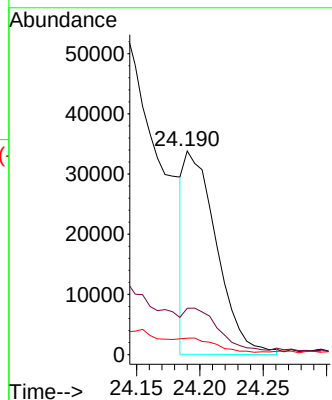
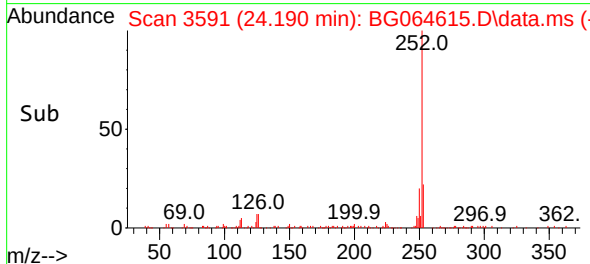


Tgt Ion:252 Resp: 59405
Ion Ratio Lower Upper
252 100
253 22.7 16.8 25.2
125 8.1 5.4 8.0

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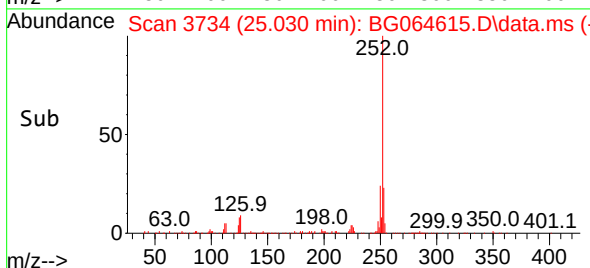
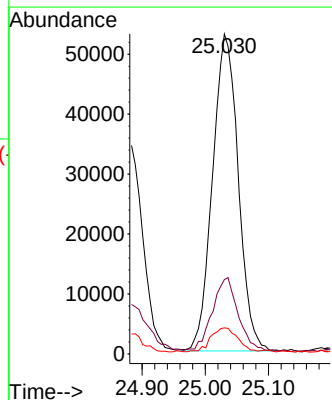
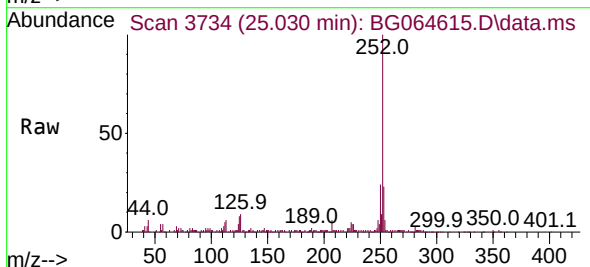
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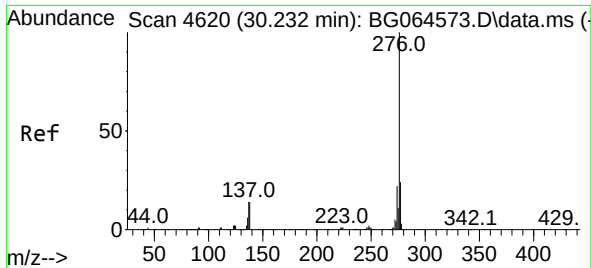
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#90
Benzo(a)pyrene
Concen: 7.873 ng
RT: 25.030 min Scan# 3734
Delta R.T. -0.014 min
Lab File: BG064615.D
Acq: 29 Oct 2025 00:01

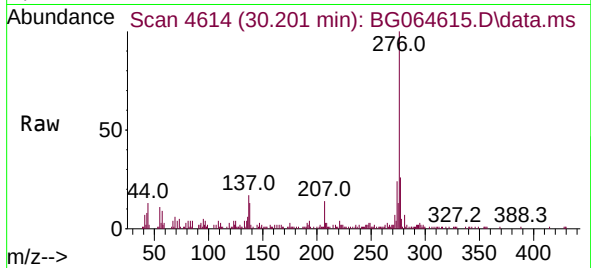
Tgt Ion:252 Resp: 149690
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 8.1 6.1 9.1





#92
 Benzo(g,h,i)perylene
 Concen: 5.288 ng
 RT: 30.201 min Scan# 4614
 Delta R.T. -0.032 min
 Lab File: BG064615.D
 Acq: 29 Oct 2025 00:01

Instrument :
 BNA_G
 ClientSampleId :
 TR-05-102425



Tgt Ion:276 Resp: 101839
 Ion Ratio Lower Upper
 276 100
 277 25.8 19.1 28.7
 138 12.6 11.3 16.9

Manual Integrations
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Reviewed By :Rahul Chavli 10/29/2025
 Supervised By :mohammad ahmed 11/05/2025

