

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG103125\
 Data File : BG064666.D
 Acq On : 31 Oct 2025 21:41
 Operator : RC/JU
 Sample : Q3486-03DL 20X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP4DL

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/04/2025
 Supervised By :mohammad ahmed 11/05/2025

Quant Time: Nov 04 03:52:16 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	8.223	152	43138	20.000	ng	0.00
21) Naphthalene-d8	11.044	136	174679	20.000	ng	# 0.00
39) Acenaphthene-d10	14.839	164	133482	20.000	ng	0.00
64) Phenanthrene-d10	17.577	188	273344	20.000	ng	0.00
76) Chrysene-d12	21.860	240	282763	20.000	ng	# 0.00
86) Perylene-d12	25.204	264	329922	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.756	112	10055	3.912	ng	0.00
7) Phenol-d6	7.354	99	15410	4.370	ng	0.00
23) Nitrobenzene-d5	9.381	82	10061	3.459	ng	0.00
42) 2,4,6-Tribromophenol	16.320	330	8112	4.211	ng	0.00
45) 2-Fluorobiphenyl	13.470	172	26958	3.061	ng	0.00
79) Terphenyl-d14	20.168	244	41991	2.802	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.689	142	17713m	2.491	ng	
38) 1-Methylnaphthalene	12.906	142	16449	2.337	ng	96
49) Acenaphthylene	14.569	152	69745m	6.173	ng	
58) Fluorene	15.879	166	73594	7.551	ng	96
71) Phenanthrene	17.624	178	667275	44.639	ng	99
72) Anthracene	17.712	178	141616	9.313	ng	100
75) Fluoranthene	19.622	202	662231	35.364	ng	96
78) Pyrene	19.980	202	1257347	68.059	ng	98
81) Benzo(a)anthracene	21.837	228	610138	32.543	ng	# 90
83) Chrysene	21.907	228	603350	33.821	ng	# 92
87) Indeno(1,2,3-cd)pyrene	29.040	276	210304	8.665	ng	# 89
88) Benzo(b)fluoranthene	24.146	252	426588	21.086	ng	97
89) Benzo(k)fluoranthene	24.205	252	131105m	6.476	ng	
90) Benzo(a)pyrene	25.051	252	556161	29.907	ng	97
91) Dibenzo(a,h)anthracene	29.076	278	78609	3.987	ng	# 82
92) Benzo(g,h,i)perylene	30.239	276	320922	17.038	ng	96

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

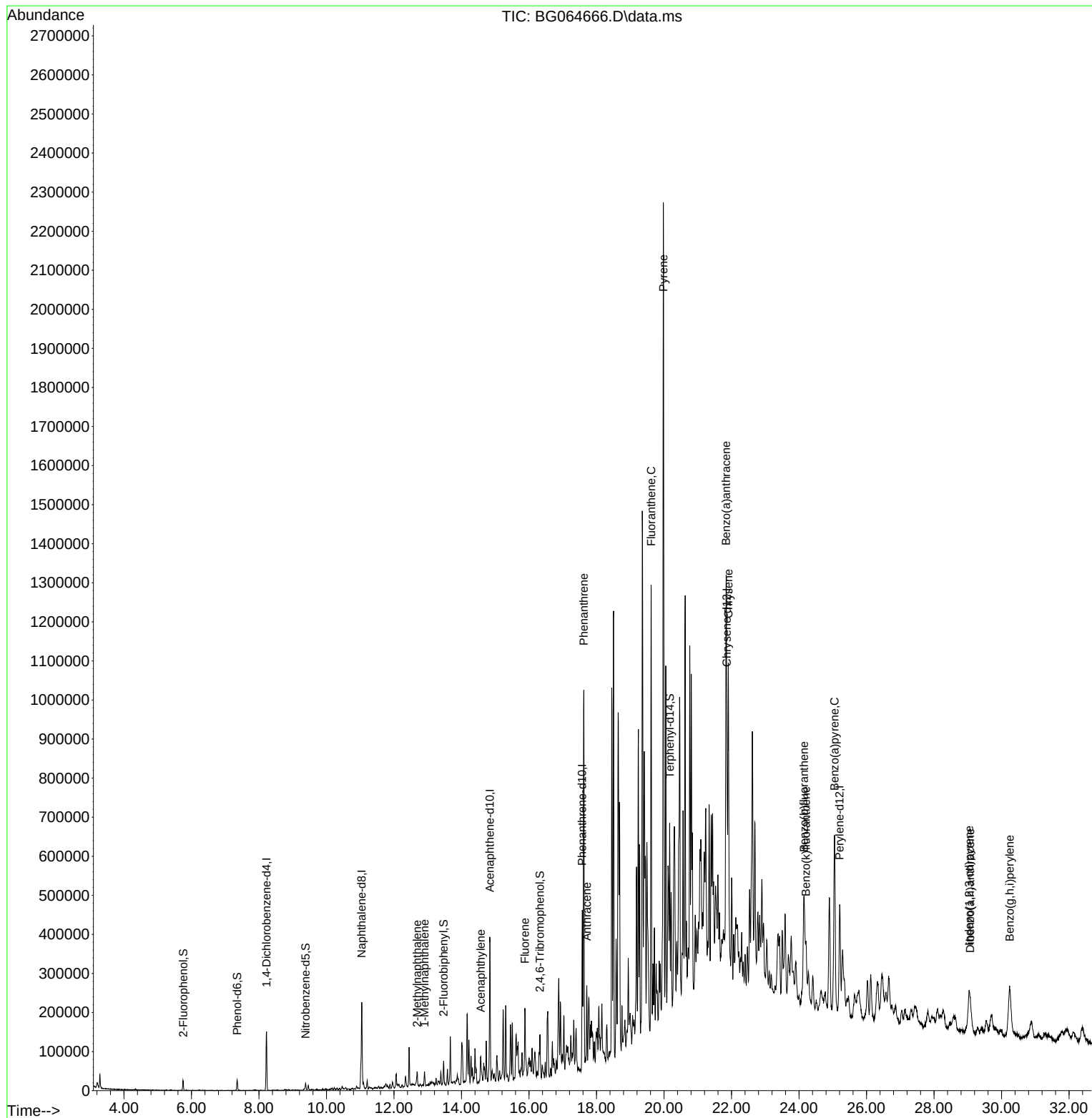
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG103125\
Data File : BG064666.D
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ALS Vial : 14 Sample Multiplier: 1

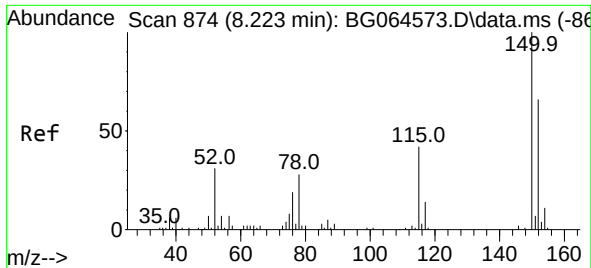
Instrument :
BNA_G
ClientSampleId :
TP4DL

Quant Time: Nov 04 03:52:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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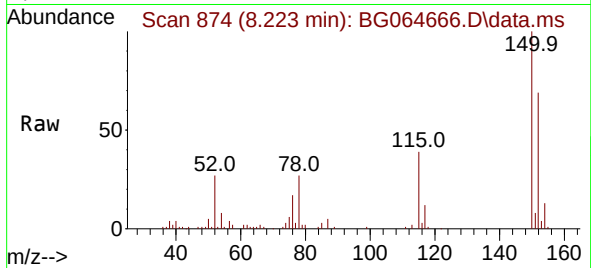
Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.223 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

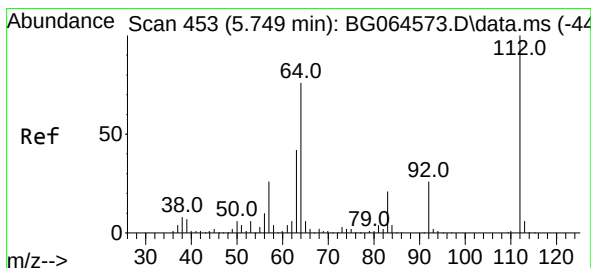
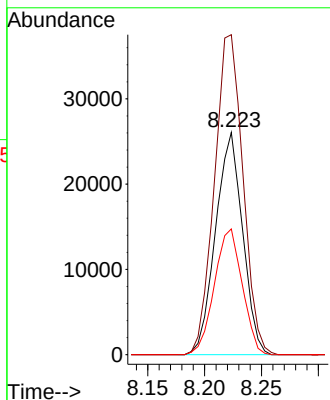
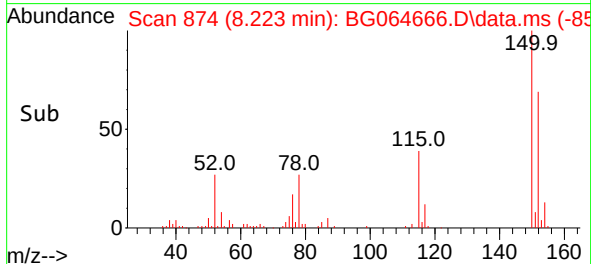
Instrument :
BNA_G
ClientSampleId :
TP4DL



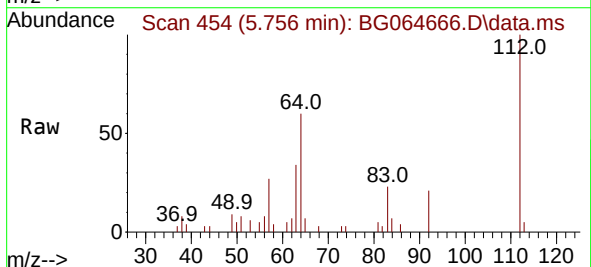
Tgt Ion:152 Resp: 43138
Ion Ratio Lower Upper
152 100
150 143.9 122.2 183.4
115 56.6 50.8 76.2

Manual Integrations
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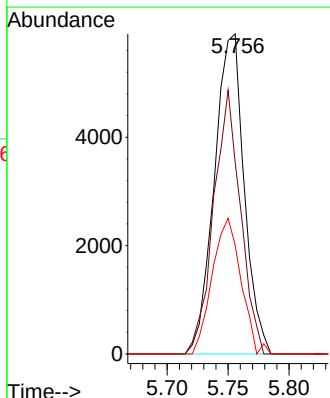
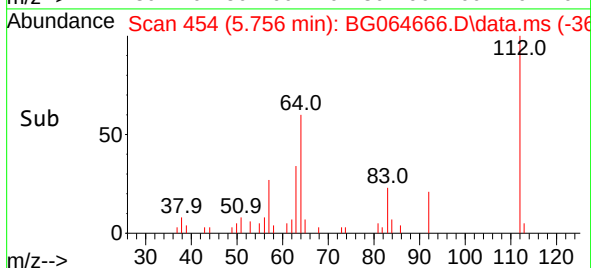
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Supervised By :mohammad ahmed 11/05/2025

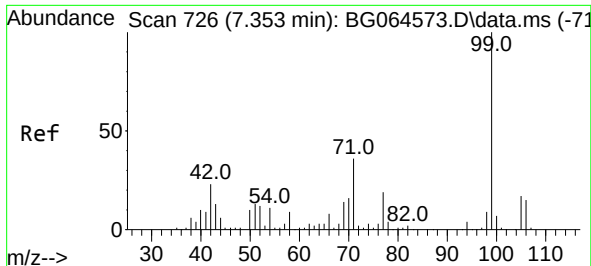


#5
2-Fluorophenol
Concen: 3.912 ng
RT: 5.756 min Scan# 454
Delta R.T. 0.007 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41



Tgt Ion:112 Resp: 10055
Ion Ratio Lower Upper
112 100
64 59.9 60.7 91.1#
63 34.0 33.4 50.0





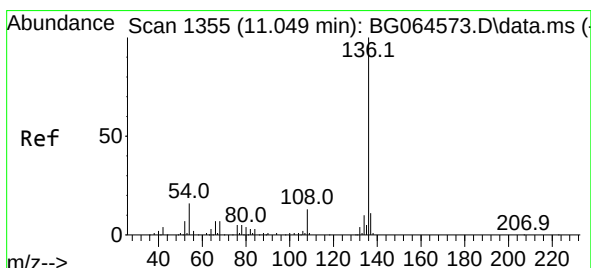
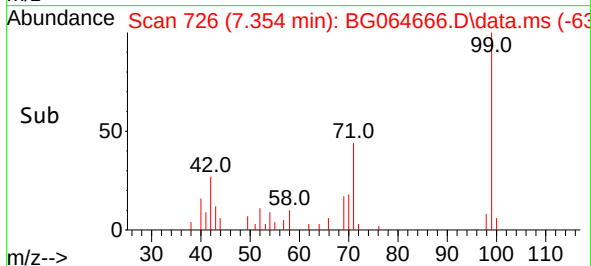
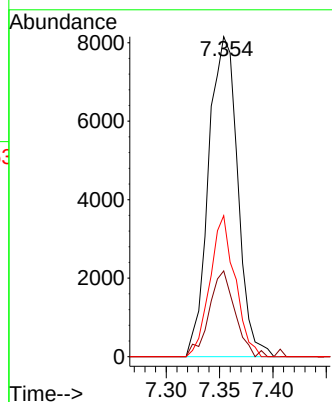
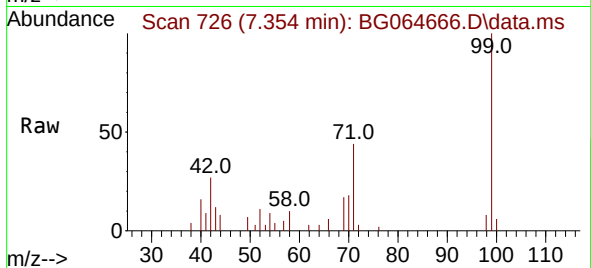
#7
Phenol-d6
Concen: 4.370 ng
RT: 7.354 min Scan# 71
Delta R.T. 0.001 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

Instrument :
BNA_G
ClientSampleId :
TP4DL

Tgt Ion: 99 Resp: 15410
Ion Ratio Lower Upper
99 100
42 26.8 18.3 27.5
71 44.0 28.6 43.0

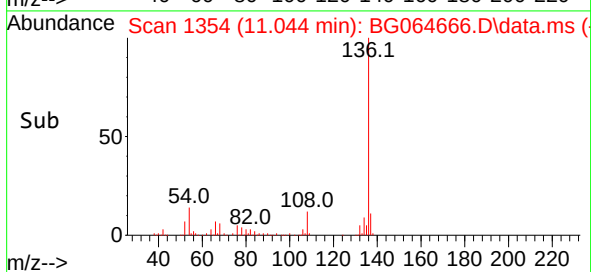
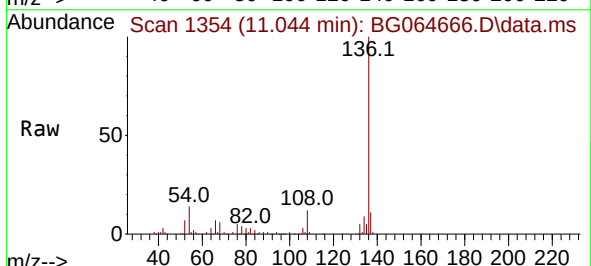
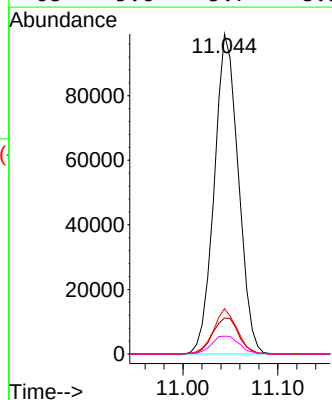
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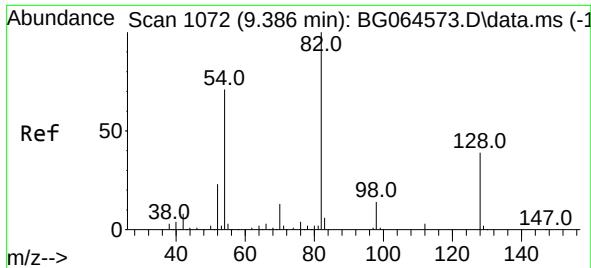
Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.044 min Scan# 1354
Delta R.T. -0.005 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

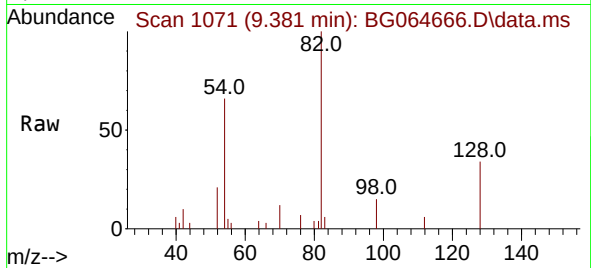
Tgt Ion:136 Resp: 174679
Ion Ratio Lower Upper
136 100
137 11.2 9.2 13.8
54 14.2 12.6 19.0
68 5.6 5.7 8.5





#23
Nitrobenzene-d5
Concen: 3.459 ng
RT: 9.381 min Scan# 1072
Delta R.T. -0.005 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

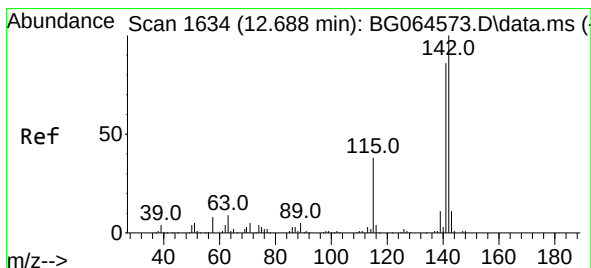
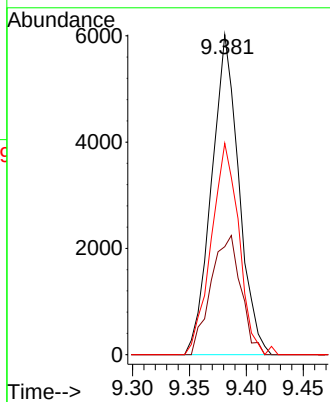
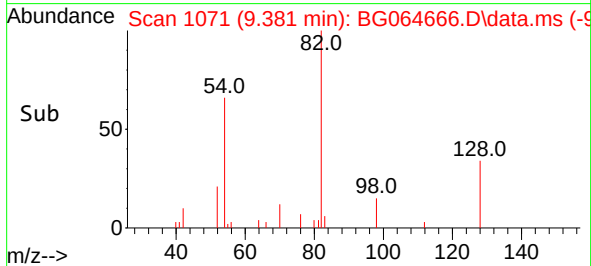
Instrument :
BNA_G
ClientSampleId :
TP4DL



Tgt Ion: 82 Resp: 1006
Ion Ratio Lower Upper
82 100
128 33.7 31.3 46.9
54 66.1 56.6 84.8

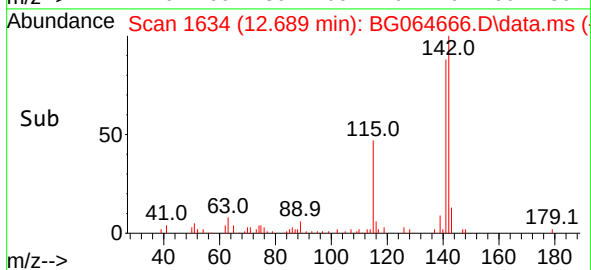
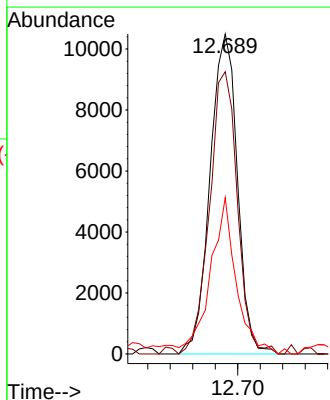
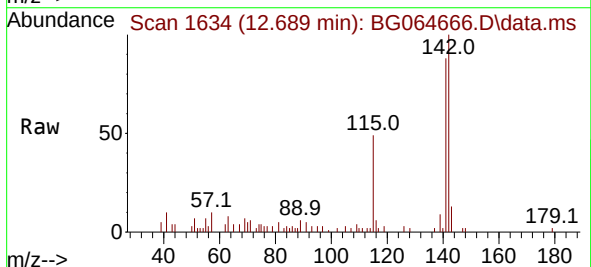
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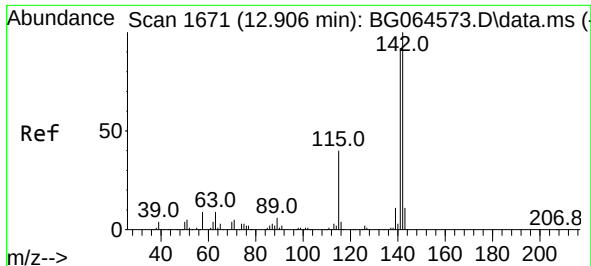
Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025



#37
2-Methylnaphthalene
Concen: 2.491 ng m
RT: 12.689 min Scan# 1634
Delta R.T. 0.001 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

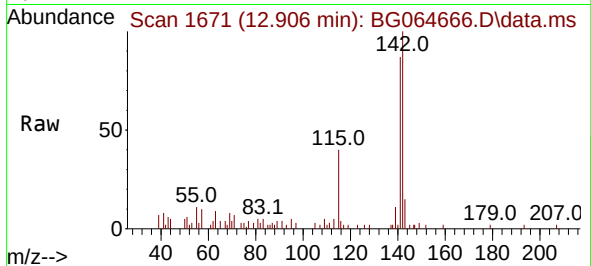
Tgt Ion:142 Resp: 17713
Ion Ratio Lower Upper
142 100
141 88.2 68.9 103.3
115 48.8 30.6 46.0#





#38
1-Methylnaphthalene
Concen: 2.337 ng
RT: 12.906 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

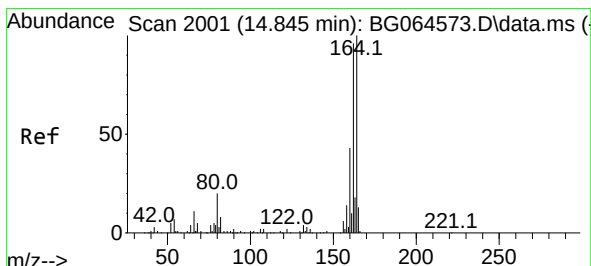
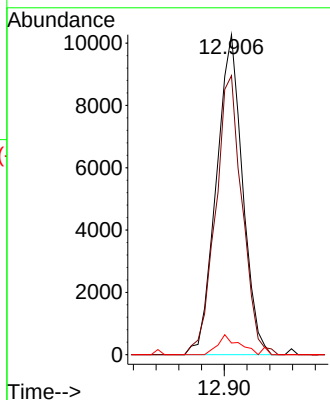
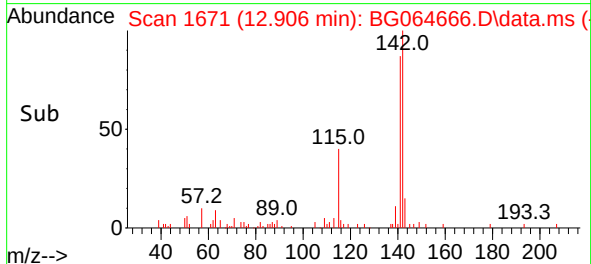
Instrument :
BNA_G
ClientSampleId :
TP4DL



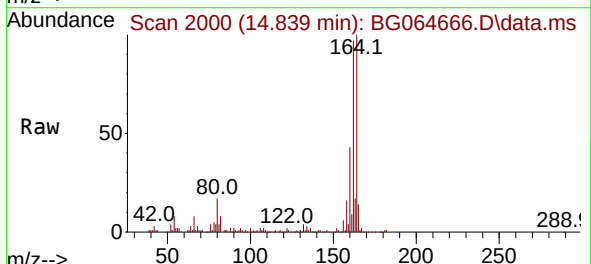
Tgt Ion:142 Resp: 16449
Ion Ratio Lower Upper
142 100
141 87.2 73.3 109.9
116 3.6 3.1 4.7

Manual Integrations
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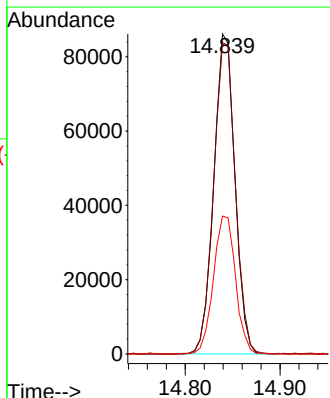
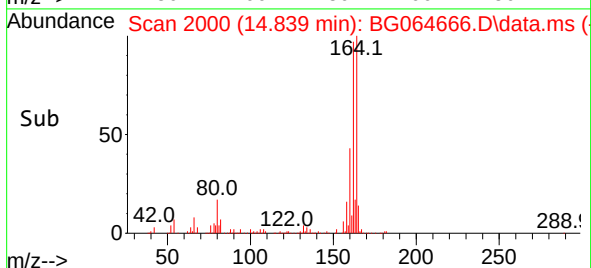
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Supervised By :mohammad ahmed 11/05/2025

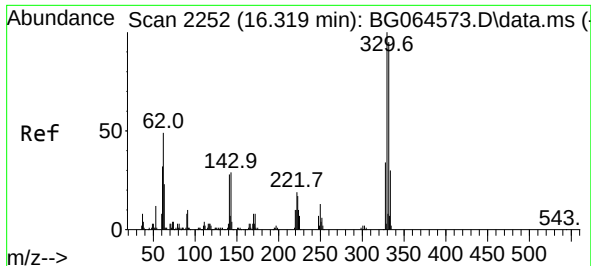


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.839 min Scan# 2000
Delta R.T. -0.005 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41



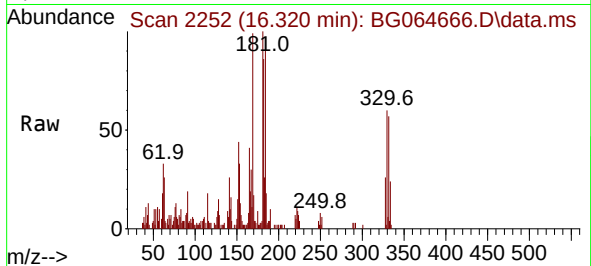
Tgt Ion:164 Resp: 133482
Ion Ratio Lower Upper
164 100
162 97.4 77.0 115.6
160 43.1 34.4 51.6





#42
2,4,6-Tribromophenol
Concen: 4.211 ng
RT: 16.320 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

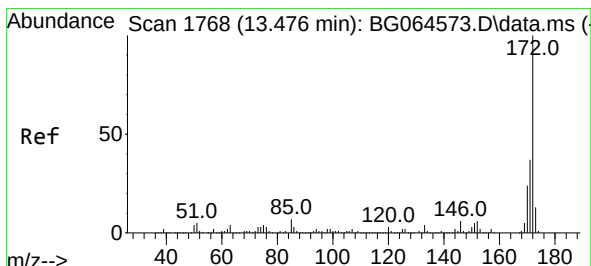
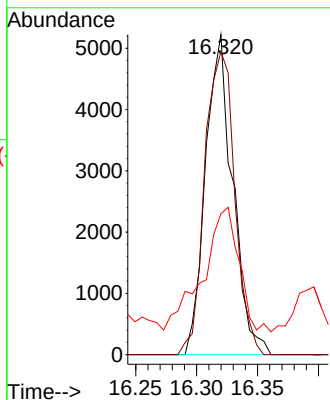
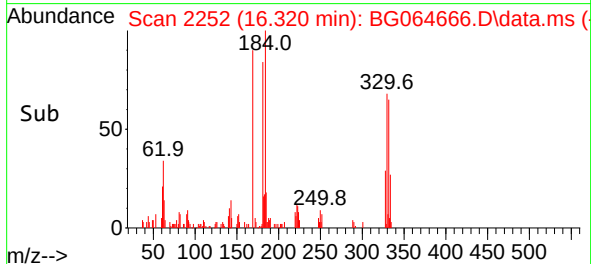
Instrument :
BNA_G
ClientSampleId :
TP4DL



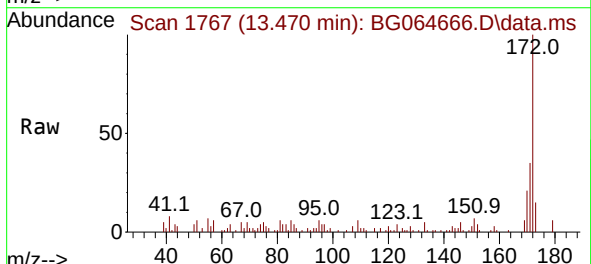
Tgt Ion:330 Resp: 811
Ion Ratio Lower Upper
330 100
332 103.9 78.0 117.0
141 51.5 21.8 32.6

Manual Integrations
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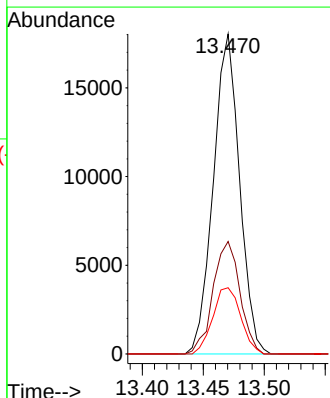
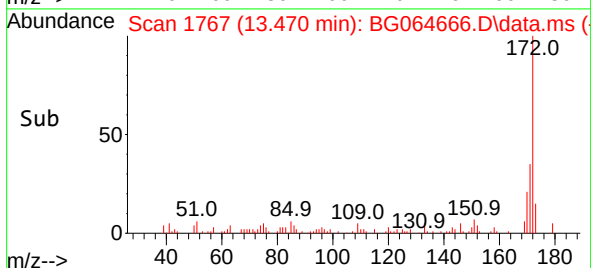
Reviewed By :Jagrut Upadhyay 11/04/2025
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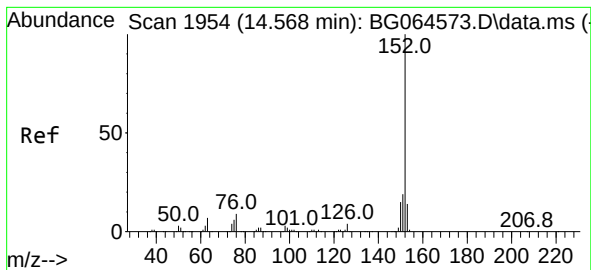


#45
2-Fluorobiphenyl
Concen: 3.061 ng
RT: 13.470 min Scan# 1767
Delta R.T. -0.005 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41



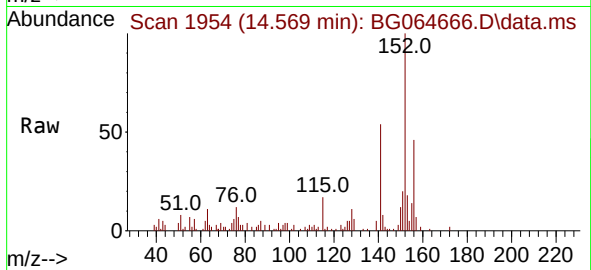
Tgt Ion:172 Resp: 26958
Ion Ratio Lower Upper
172 100
171 35.1 29.4 44.0
170 20.7 19.1 28.7





#49
Acenaphthylene
Concen: 6.173 ng m
RT: 14.569 min Scan# 1954
Delta R.T. 0.001 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

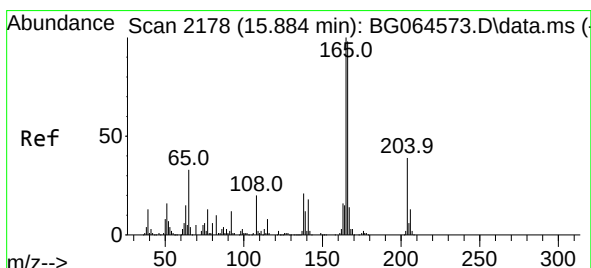
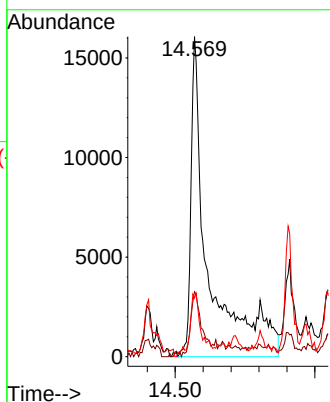
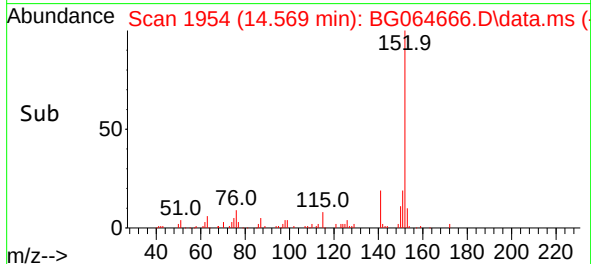
Instrument :
BNA_G
ClientSampleId :
TP4DL



Tgt Ion:152 Resp: 6974
Ion Ratio Lower Upper
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151 20.3 15.4 23.2
153 18.3 11.0 16.4

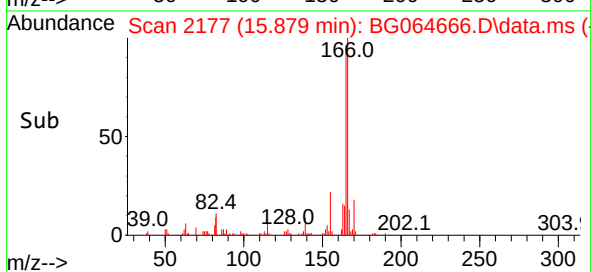
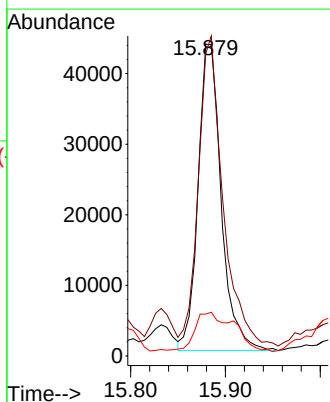
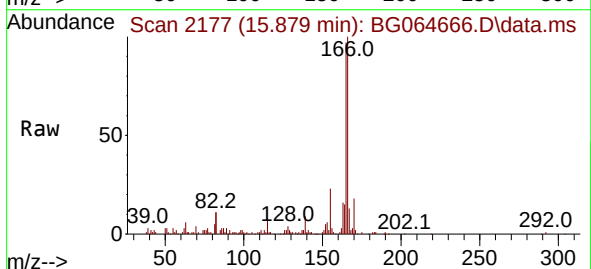
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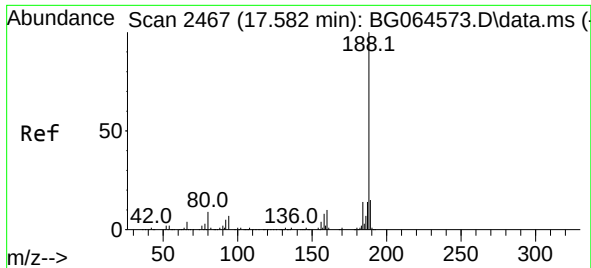
Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025



#58
Fluorene
Concen: 7.551 ng
RT: 15.879 min Scan# 2177
Delta R.T. -0.005 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

Tgt Ion:166 Resp: 73594
Ion Ratio Lower Upper
166 100
165 97.0 81.5 122.3
167 13.5 11.4 17.0





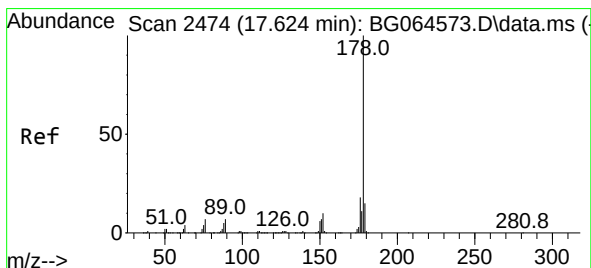
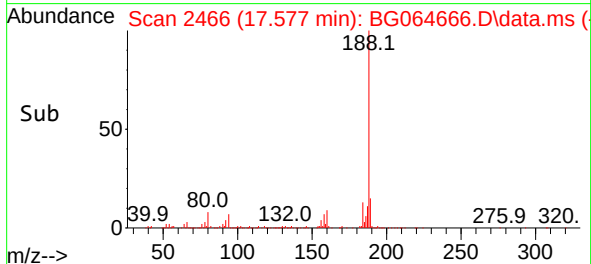
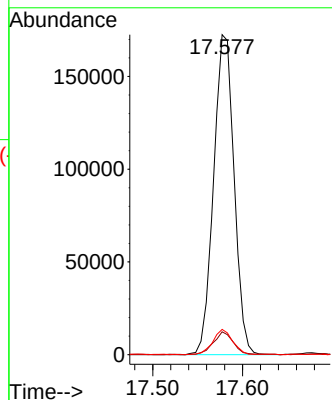
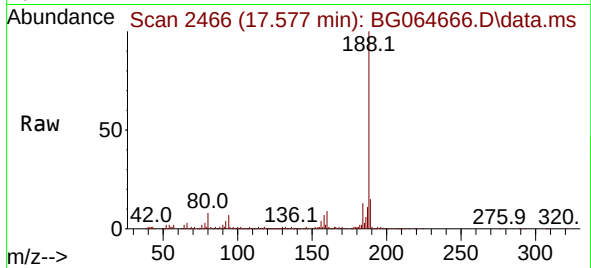
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.577 min Scan# 2466
Delta R.T. -0.005 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

Instrument :
BNA_G
ClientSampleId :
TP4DL

Tgt Ion:188 Resp: 273344
Ion Ratio Lower Upper
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94 7.1 5.7 8.5
80 7.9 6.8 10.2

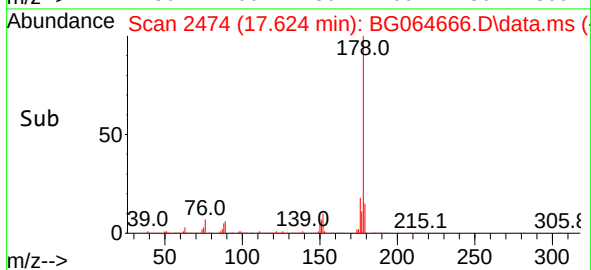
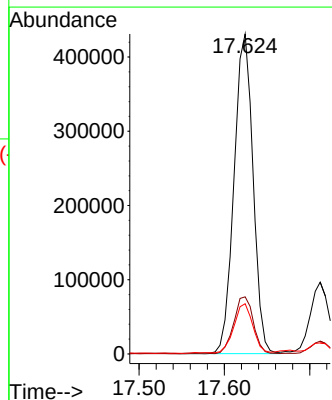
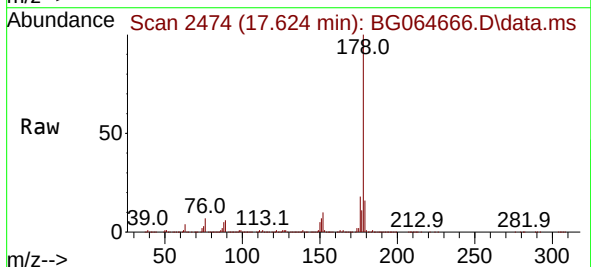
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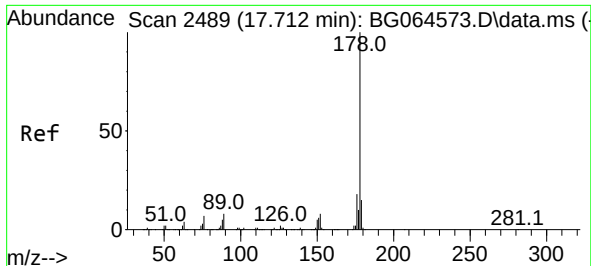
Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025



#71
Phenanthrene
Concen: 44.639 ng
RT: 17.624 min Scan# 2474
Delta R.T. 0.001 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

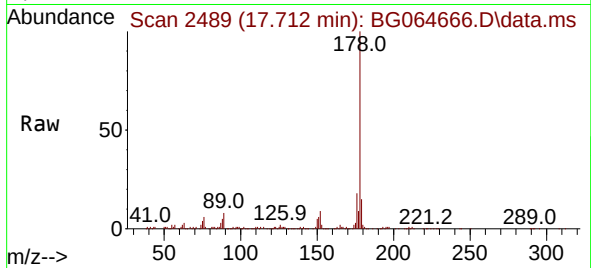
Tgt Ion:178 Resp: 667275
Ion Ratio Lower Upper
178 100
176 17.9 14.7 22.1
179 15.7 12.2 18.4





#72
 Anthracene
 Concen: 9.313 ng
 RT: 17.712 min Scan# 2489
 Delta R.T. 0.001 min
 Lab File: BG064666.D
 Acq: 31 Oct 2025 21:41

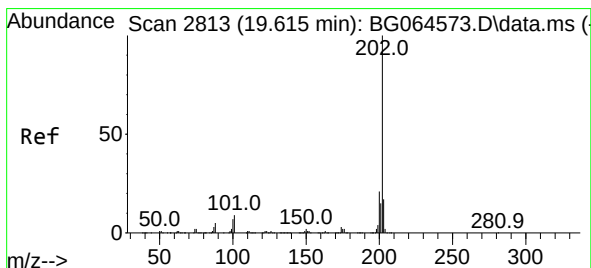
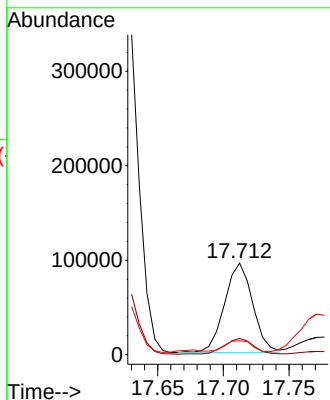
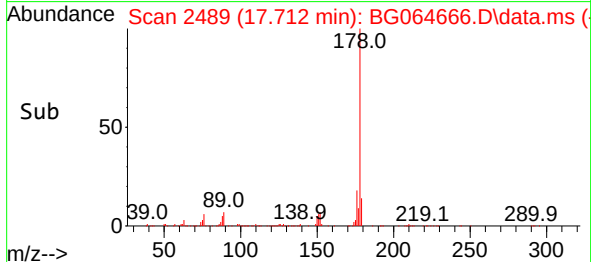
Instrument :
 BNA_G
 ClientSampleId :
 TP4DL



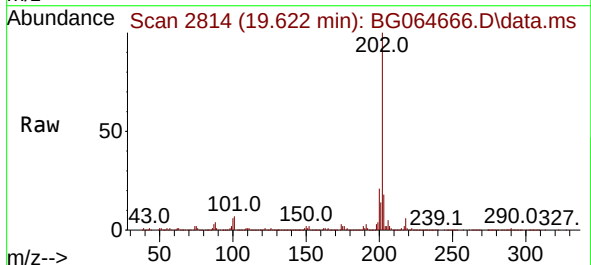
Tgt Ion:178 Resp: 141610
 Ion Ratio Lower Upper
 178 100
 176 17.9 14.4 21.6
 179 15.3 12.4 18.6

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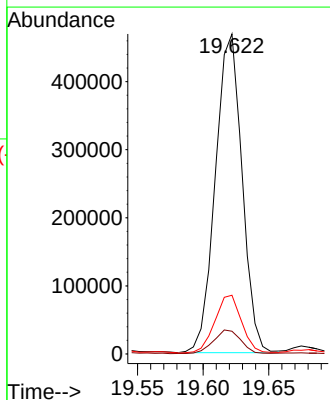
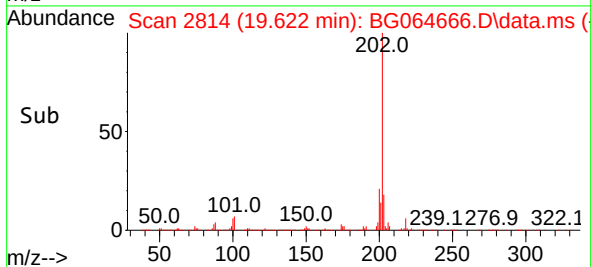
Reviewed By :Jagrut Upadhyay 11/04/2025
 Supervised By :mohammad ahmed 11/05/2025

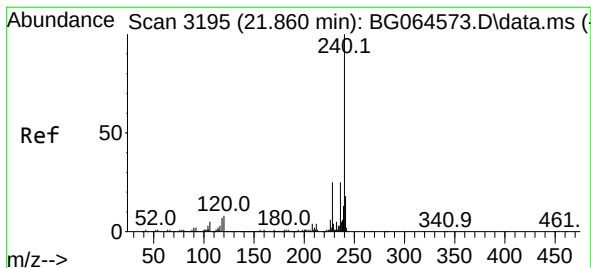


#75
 Fluoranthene
 Concen: 35.364 ng
 RT: 19.622 min Scan# 2814
 Delta R.T. 0.007 min
 Lab File: BG064666.D
 Acq: 31 Oct 2025 21:41



Tgt Ion:202 Resp: 662231
 Ion Ratio Lower Upper
 202 100
 101 7.1 0.0 28.7
 203 18.3 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.860 min Scan# 3195

Delta R.T. 0.001 min

Lab File: BG064666.D

Acq: 31 Oct 2025 21:41

Instrument :

BNA_G

ClientSampleId :

TP4DL

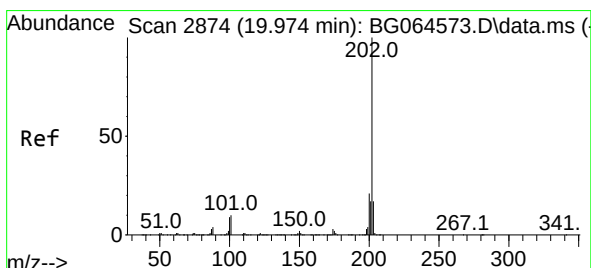
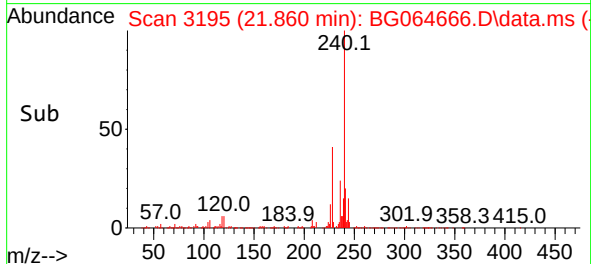
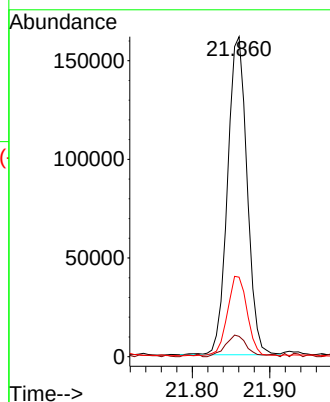
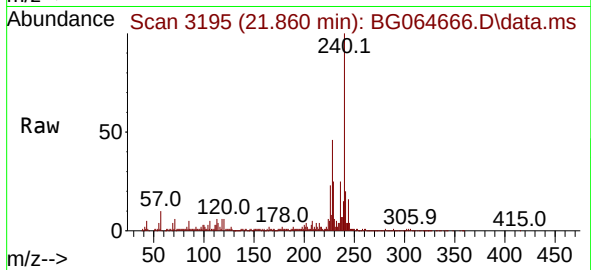
Tgt Ion:240 Resp: 28276

Ion	Ratio	Lower	Upper
240	100		
120	6.3	6.5	9.7
236	24.8	20.2	30.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025



#78

Pyrene

Concen: 68.059 ng

RT: 19.980 min Scan# 2875

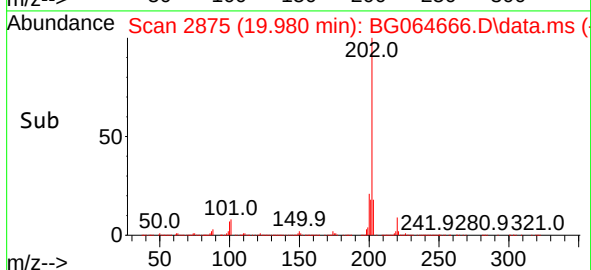
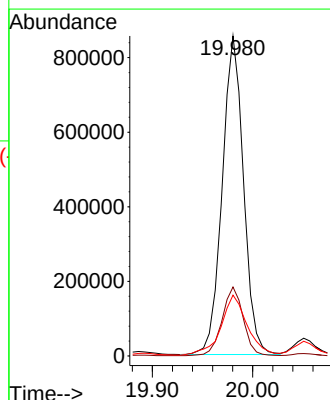
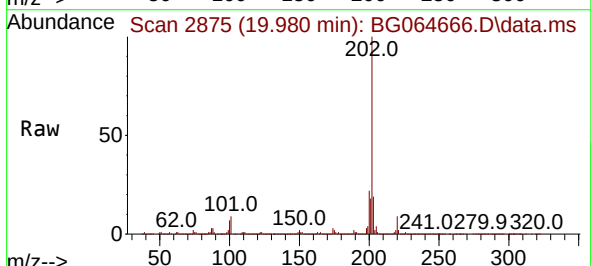
Delta R.T. 0.006 min

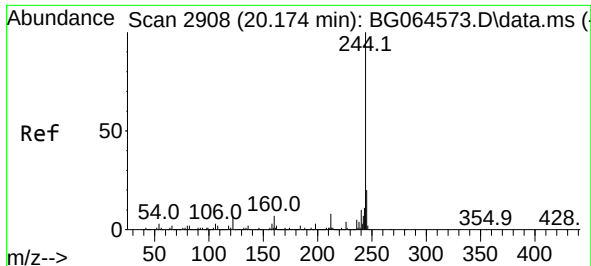
Lab File: BG064666.D

Acq: 31 Oct 2025 21:41

Tgt Ion:202 Resp: 1257347

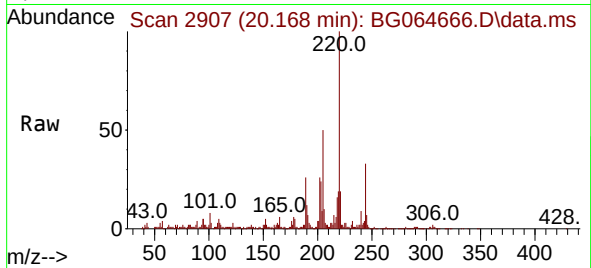
Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.4
203	19.0	13.8	20.6





#79
 Terphenyl-d14
 Concen: 2.802 ng
 RT: 20.168 min Scan# 2908
 Delta R.T. -0.005 min
 Lab File: BG064666.D
 Acq: 31 Oct 2025 21:41

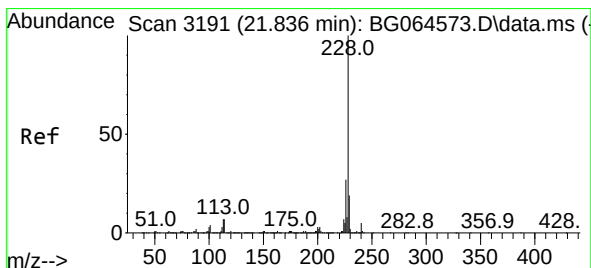
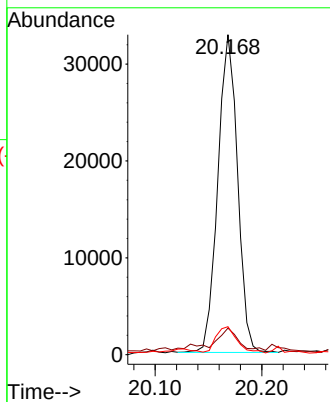
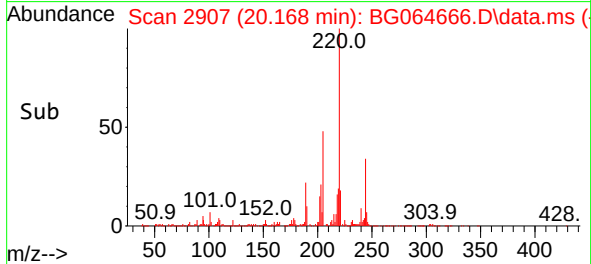
Instrument :
 BNA_G
 ClientSampleId :
 TP4DL



Tgt Ion:244 Resp: 4199
 Ion Ratio Lower Upper
 244 100
 212 8.3 6.1 9.1
 122 8.8 5.6 8.4

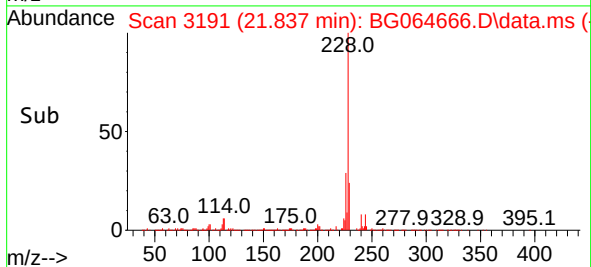
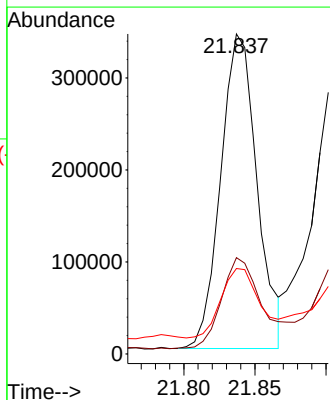
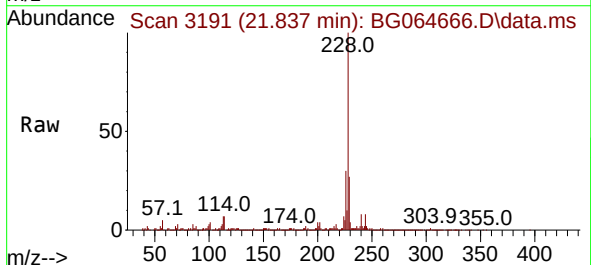
Manual Integrations
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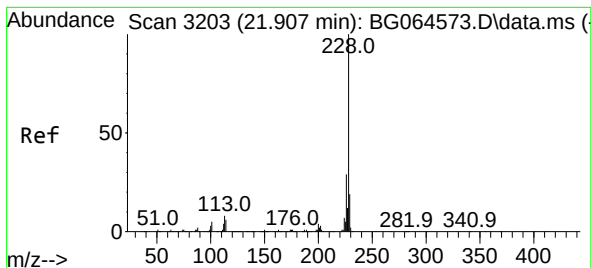
Reviewed By :Jagrut Upadhyay 11/04/2025
 Supervised By :mohammad ahmed 11/05/2025



#81
 Benzo(a)anthracene
 Concen: 32.543 ng
 RT: 21.837 min Scan# 3191
 Delta R.T. 0.001 min
 Lab File: BG064666.D
 Acq: 31 Oct 2025 21:41

Tgt Ion:228 Resp: 610138
 Ion Ratio Lower Upper
 228 100
 226 30.1 21.9 32.9
 229 26.7 15.6 23.4





#83

Chrysene

Concen: 33.821 ng

RT: 21.907 min Scan# 31

Delta R.T. 0.001 min

Lab File: BG064666.D

Acq: 31 Oct 2025 21:41

Instrument :

BNA_G

ClientSampleId :

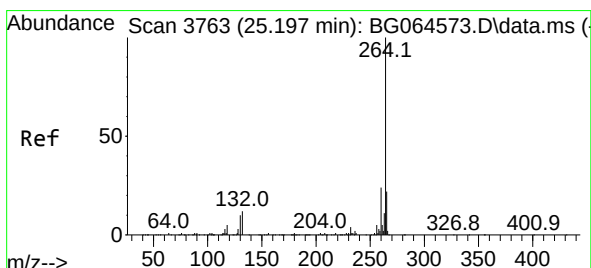
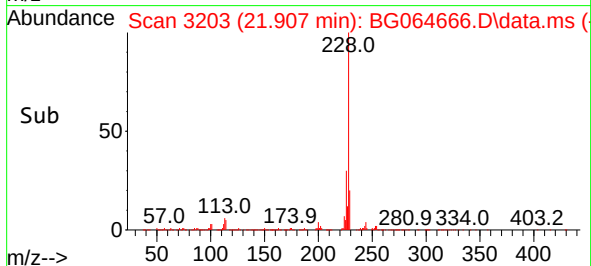
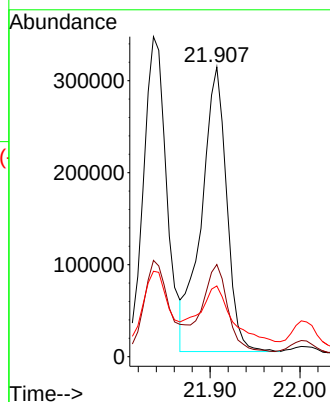
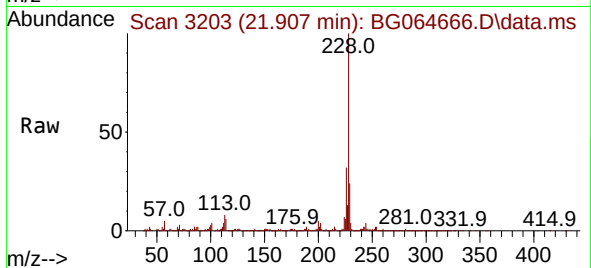
TP4DL

Tgt Ion:	228	Resp:	603350
Ion Ratio	Lower	Upper	
228	100		
226	31.8	23.3	34.9
229	24.4	15.2	22.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025



#86

Perylene-d12

Concen: 20.000 ng

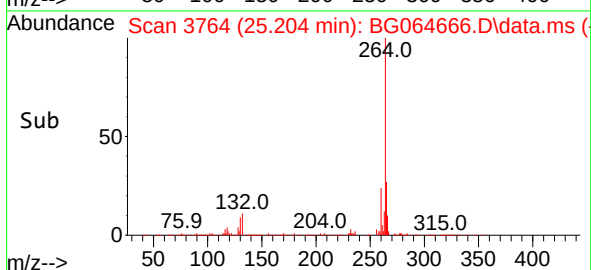
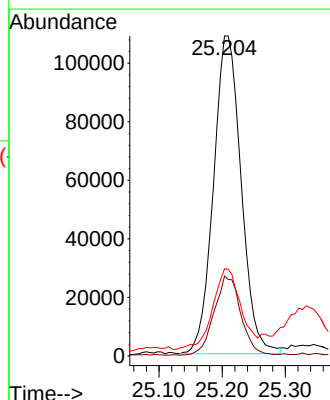
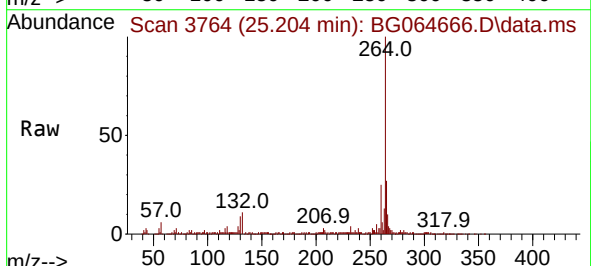
RT: 25.204 min Scan# 3764

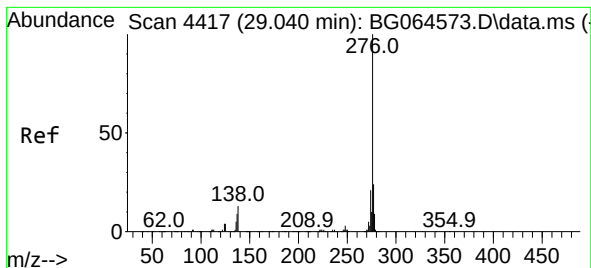
Delta R.T. 0.007 min

Lab File: BG064666.D

Acq: 31 Oct 2025 21:41

Tgt Ion:	264	Resp:	329922
Ion Ratio	Lower	Upper	
264	100		
260	25.0	19.0	28.4
265	27.2	17.6	26.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.665 ng

RT: 29.040 min Scan# 4417

Delta R.T. 0.001 min

Lab File: BG064666.D

Acq: 31 Oct 2025 21:41

Instrument :

BNA_G

ClientSampleId :

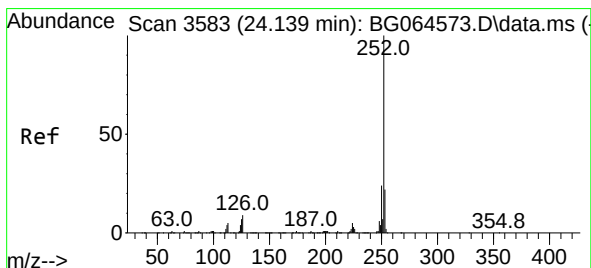
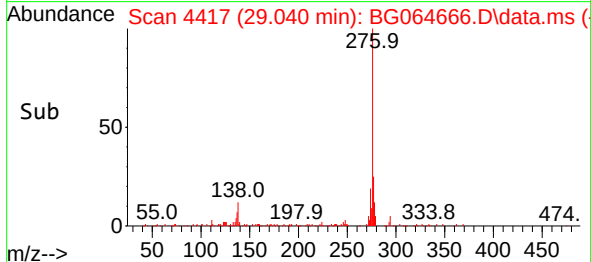
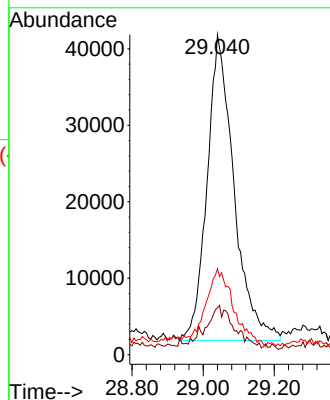
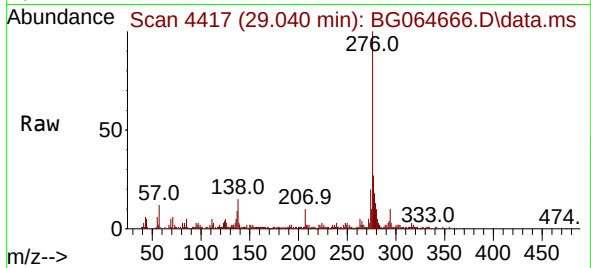
TP4DL

Tgt Ion:	276	Resp:	210304
Ion Ratio	Lower	Upper	
276	100		
138	3.5	10.8	16.2
277	27.1	20.1	30.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025



#88

Benzo(b)fluoranthene

Concen: 21.086 ng

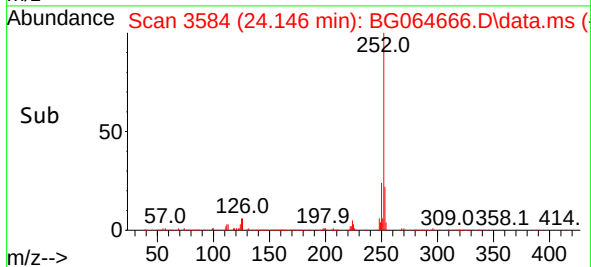
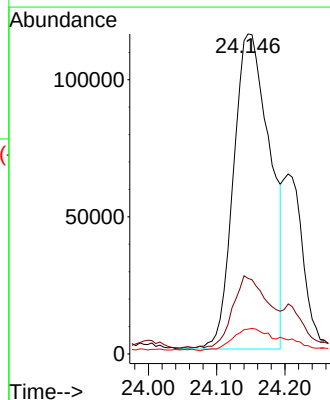
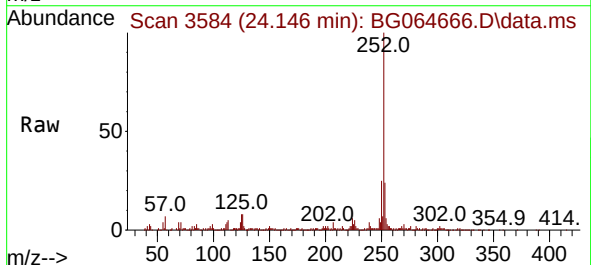
RT: 24.146 min Scan# 3584

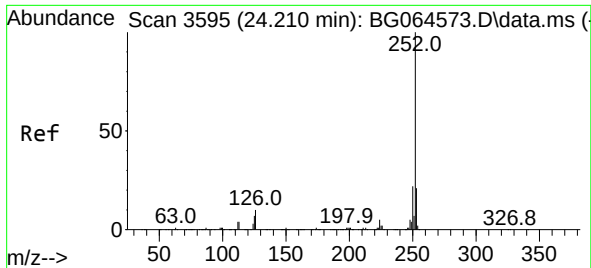
Delta R.T. 0.007 min

Lab File: BG064666.D

Acq: 31 Oct 2025 21:41

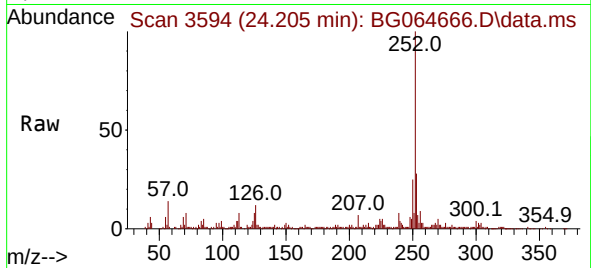
Tgt Ion:	252	Resp:	426588
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.8	26.8
125	7.7	5.6	8.4





#89
Benzo(k)fluoranthene
Concen: 6.476 ng m
RT: 24.205 min Scan# 31
Delta R.T. -0.005 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41

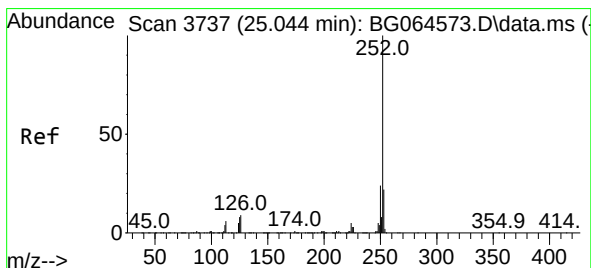
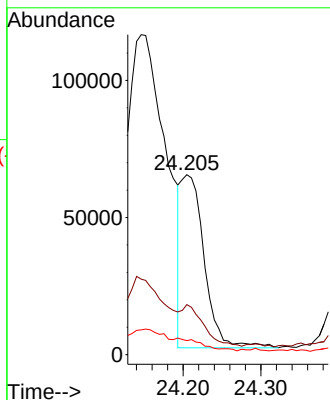
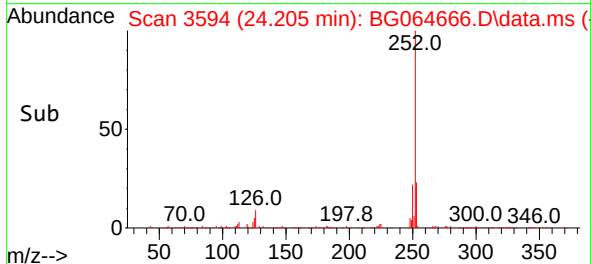
Instrument :
BNA_G
ClientSampleId :
TP4DL



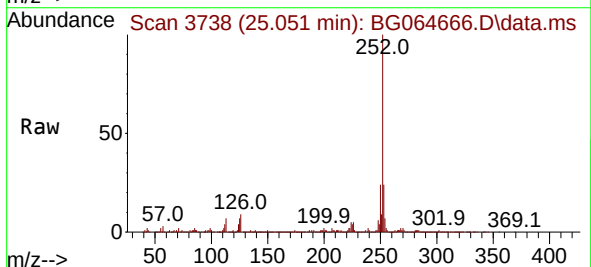
Tgt Ion:252 Resp: 13110
Ion Ratio Lower Upper
252 100
253 27.8 16.8 25.2
125 7.8 5.4 8.0

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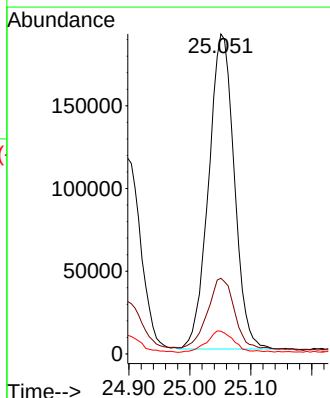
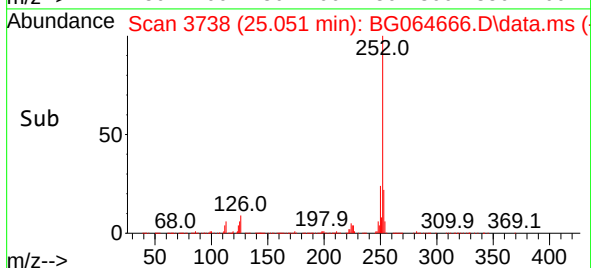
Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025

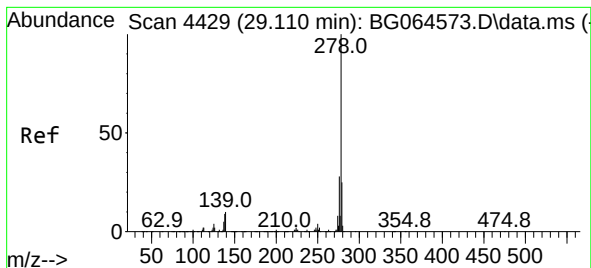


#90
Benzo(a)pyrene
Concen: 29.907 ng
RT: 25.051 min Scan# 3738
Delta R.T. 0.007 min
Lab File: BG064666.D
Acq: 31 Oct 2025 21:41



Tgt Ion:252 Resp: 556161
Ion Ratio Lower Upper
252 100
253 23.6 17.6 26.4
125 7.1 6.1 9.1





#91

Dibenzo(a,h)anthracene

Concen: 3.987 ng

RT: 29.076 min Scan# 4429

Delta R.T. -0.035 min

Lab File: BG064666.D

Acq: 31 Oct 2025 21:41

Instrument :

BNA_G

ClientSampleId :

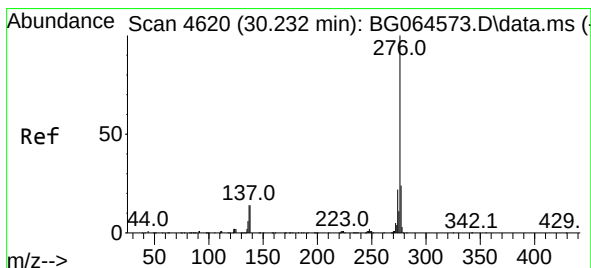
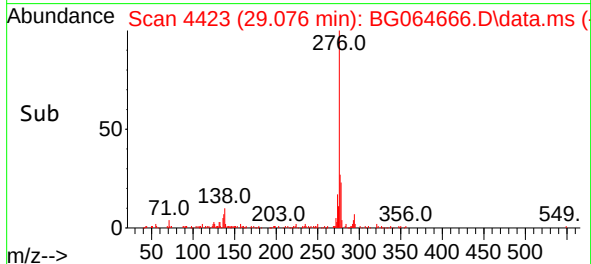
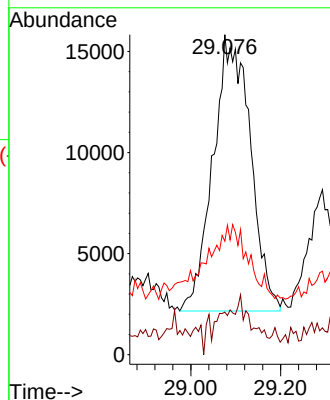
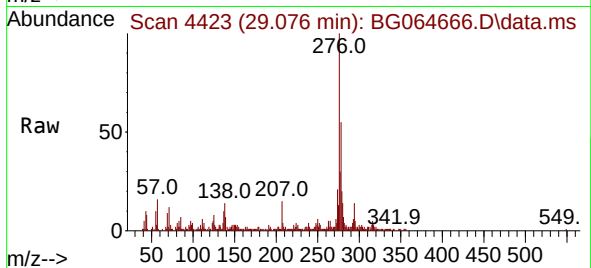
TP4DL

Tgt Ion:	278	Resp:	78609
Ion Ratio	Lower	Upper	
278	100		
139	13.3	8.0	12.0
279	35.4	19.8	29.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/04/2025
Supervised By :mohammad ahmed 11/05/2025



#92

Benzo(g,h,i)perylene

Concen: 17.038 ng

RT: 30.239 min Scan# 4621

Delta R.T. 0.007 min

Lab File: BG064666.D

Acq: 31 Oct 2025 21:41

Tgt Ion:	276	Resp:	320922
Ion Ratio	Lower	Upper	
276	100		
277	26.7	19.1	28.7
138	13.9	11.3	16.9

