

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG111025\
 Data File : BG064730.D
 Acq On : 10 Nov 2025 12:45
 Operator : RC/JU
 Sample : Q3564-01DL 4X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-03-11062025DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/11/2025
 Supervised By :Jagrut Upadhyay 11/11/2025

Quant Time: Nov 10 13:23:02 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	8.200	152	39437	20.000	ng	-0.02
21) Naphthalene-d8	11.026	136	161776	20.000	ng	-0.02
39) Acenaphthene-d10	14.827	164	133747	20.000	ng	-0.02
64) Phenanthrene-d10	17.560	188	313770	20.000	ng	-0.02
76) Chrysene-d12	21.837	240	368459	20.000	ng	#-0.02
86) Perylene-d12	25.162	264	420989	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.732	112	39875	16.971	ng	-0.02
7) Phenol-d6	7.336	99	56013	17.373	ng	-0.02
23) Nitrobenzene-d5	9.363	82	38397	14.256	ng	-0.02
42) 2,4,6-Tribromophenol	16.302	330	44737	23.175	ng	-0.02
45) 2-Fluorobiphenyl	13.453	172	109269	12.383	ng	-0.02
79) Terphenyl-d14	20.151	244	243704	12.482	ng	-0.02
Target Compounds						Qvalue
58) Fluorene	15.867	166	23171	2.373	ng	94
71) Phenanthrene	17.601	178	346658	20.203	ng	99
72) Anthracene	17.695	178	132656	7.600	ng	99
75) Fluoranthene	19.604	202	1342102	62.436	ng	98
78) Pyrene	19.963	202	1167295	48.489	ng	98
81) Benzo(a)anthracene	21.813	228	805910	32.987	ng	99
83) Chrysene	21.884	228	658366	28.321	ng	96
87) Indeno(1,2,3-cd)pyrene	28.976	276	399352	12.895	ng	# 91
88) Benzo(b)fluoranthene	24.111	252	883976	34.243	ng	# 98
89) Benzo(k)fluoranthene	24.169	252	322019m	12.466	ng	
90) Benzo(a)pyrene	25.010	252	684104m	28.829	ng	
91) Dibenzo(a,h)anthracene	29.034	278	111197	4.420	ng	94
92) Benzo(g,h,i)perylene	30.168	276	349924	14.559	ng	# 95

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

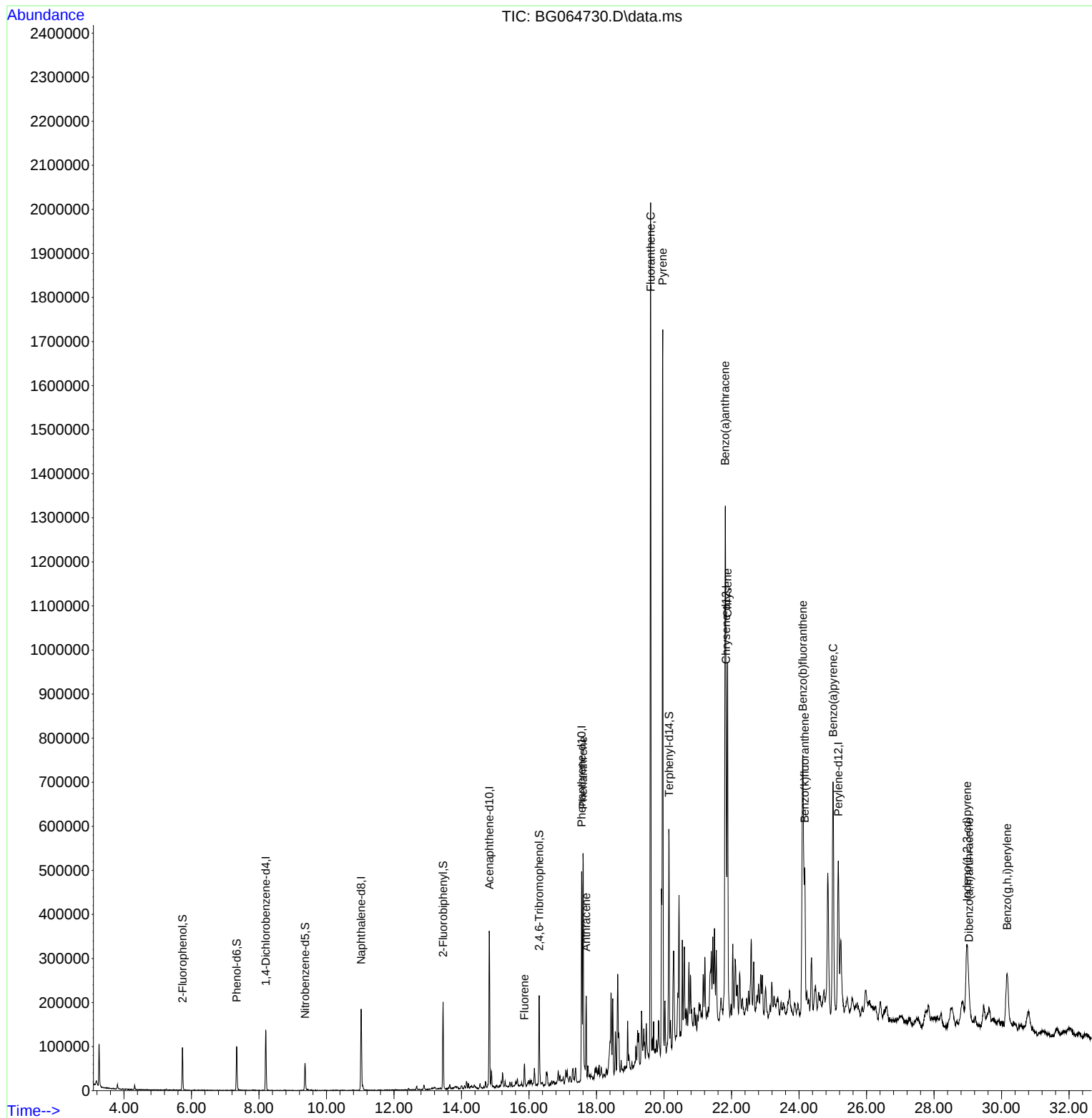
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG111025\
Data File : BG064730.D
Acq On : 10 Nov 2025 12:45
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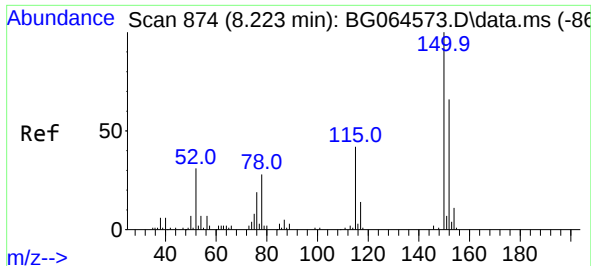
Instrument :
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ClientSampleId :
OR-03-11062025DL

Quant Time: Nov 10 13:23:02 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

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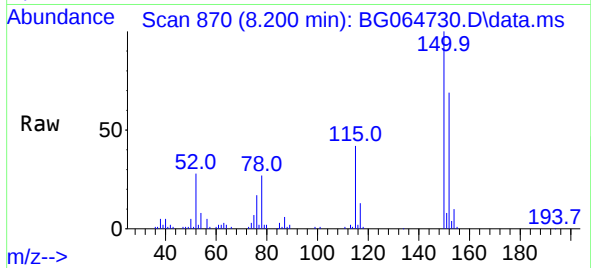
Reviewed By :Rahul Chavli 11/11/2025
Supervised By :Jagrut Upadhyay 11/11/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.200 min Scan# 81
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

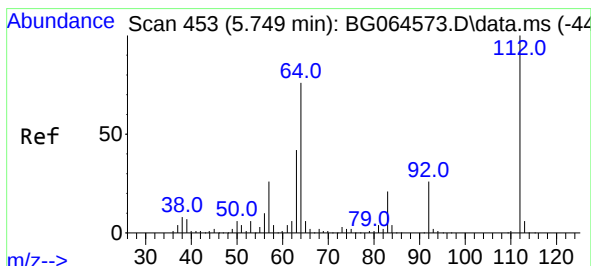
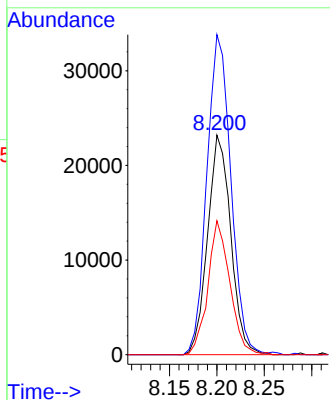
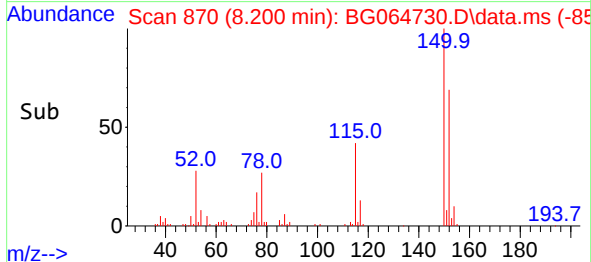
Instrument :
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ClientSampleId :
OR-03-11062025DL



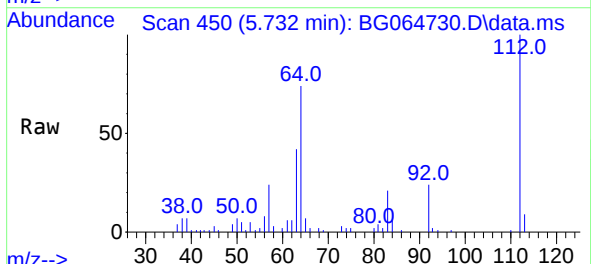
Tgt Ion:152 Resp: 3943
Ion Ratio Lower Upper
152 100
150 145.8 122.2 183.4
115 61.0 50.8 76.2

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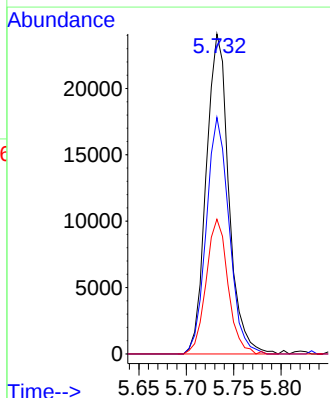
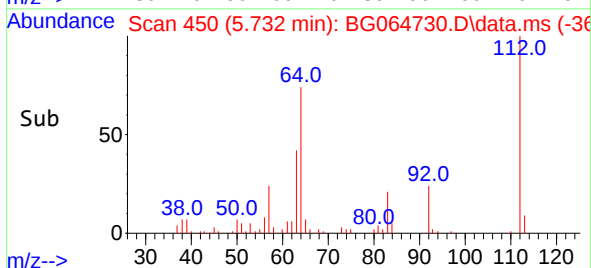
Reviewed By :Rahul Chavli 11/11/2025
Supervised By :Jagrut Upadhyay 11/11/2025

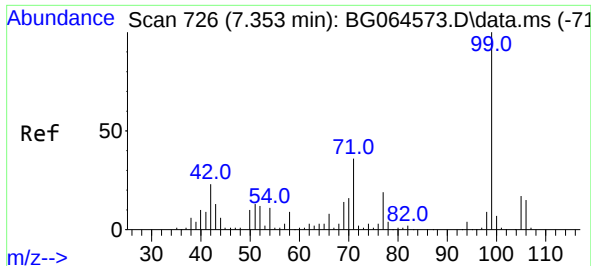


#5
2-Fluorophenol
Concen: 16.971 ng
RT: 5.732 min Scan# 450
Delta R.T. -0.017 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45



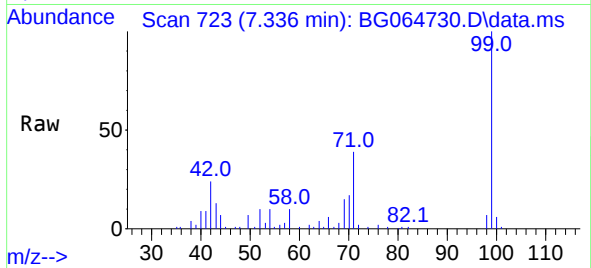
Tgt Ion:112 Resp: 39875
Ion Ratio Lower Upper
112 100
64 73.9 60.7 91.1
63 42.1 33.4 50.0





#7
Phenol-d6
Concen: 17.373 ng
RT: 7.336 min Scan# 71
Delta R.T. -0.017 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

Instrument :
BNA_G
ClientSampleId :
OR-03-11062025DL

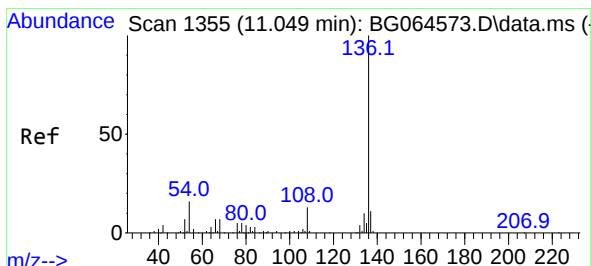
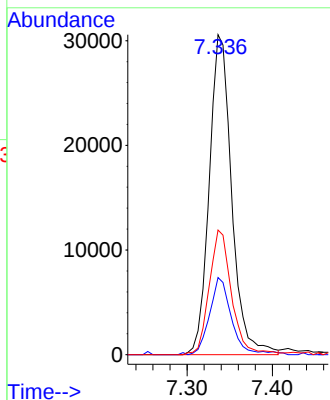
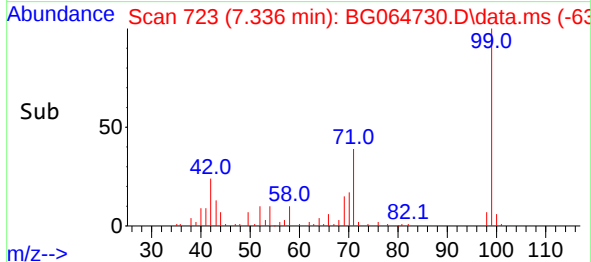


Tgt Ion: 99 Resp: 5601

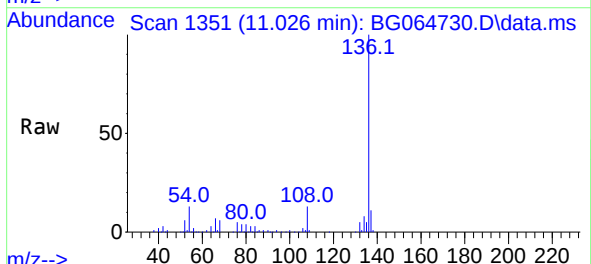
Ion	Ratio	Lower	Upper
99	100		
42	24.1	18.3	27.5
71	39.0	28.6	43.0

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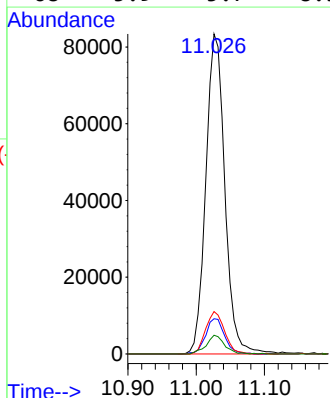
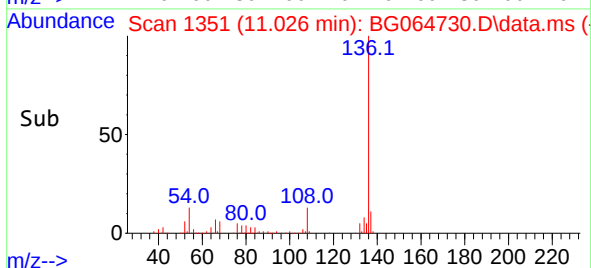


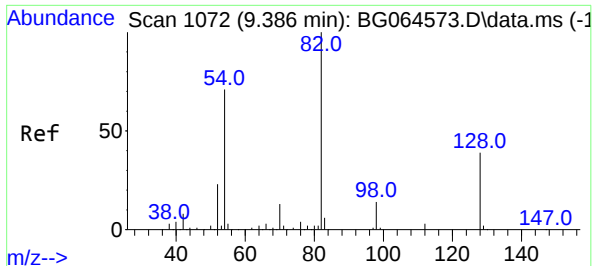
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.026 min Scan# 1351
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45



Tgt Ion:136 Resp: 161776

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.2	13.8
54	13.2	12.6	19.0
68	5.9	5.7	8.5





#23
Nitrobenzene-d5
Concen: 14.256 ng
RT: 9.363 min Scan# 1072
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

Instrument :

BNA_G

ClientSampleId :

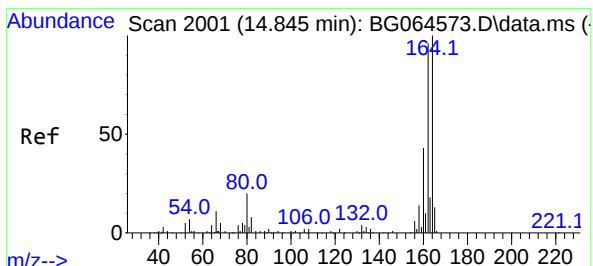
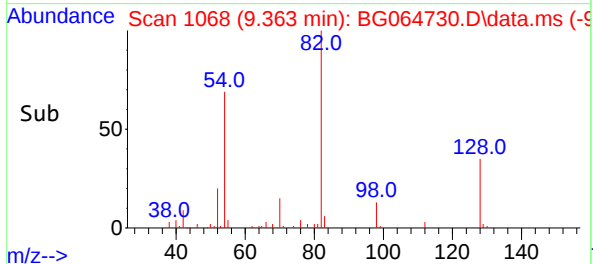
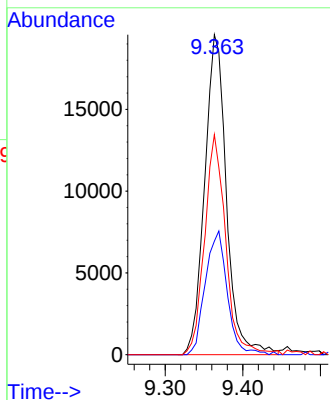
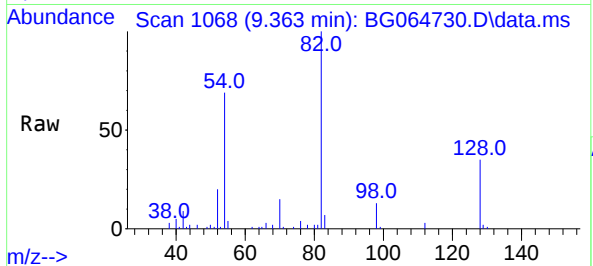
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Tgt Ion: 82 Resp: 3839
Ion Ratio Lower Upper
82 100
128 35.5 31.3 46.9
54 68.8 56.6 84.8

Manual Integrations

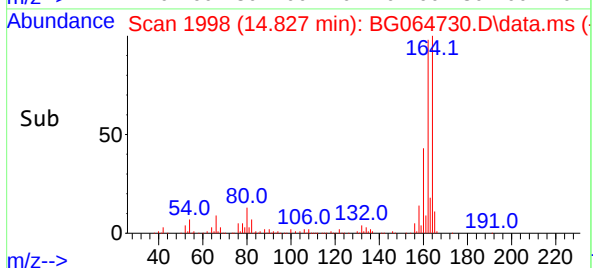
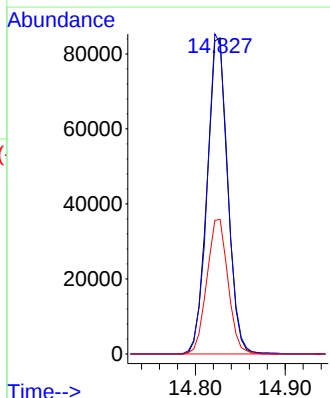
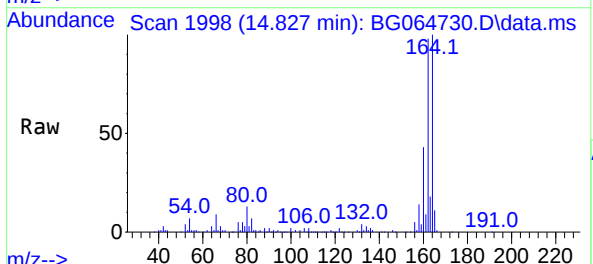
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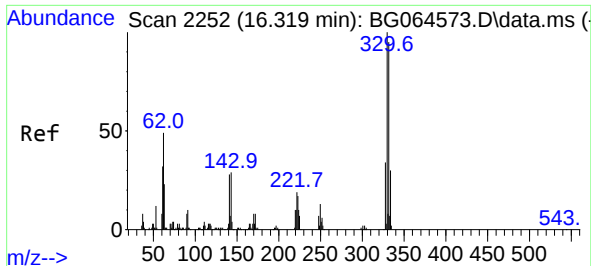
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.827 min Scan# 1998
Delta R.T. -0.017 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

Tgt Ion:164 Resp: 133747
Ion Ratio Lower Upper
164 100
162 98.3 77.0 115.6
160 42.6 34.4 51.6





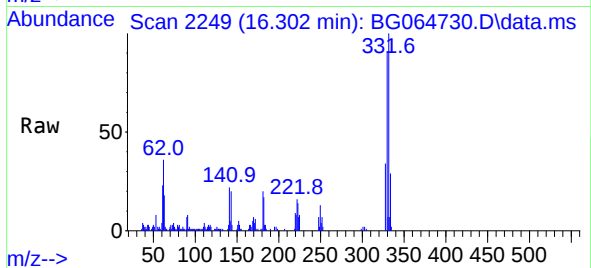
#42
2,4,6-Tribromophenol
Concen: 23.175 ng
RT: 16.302 min Scan# 21
Delta R.T. -0.017 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

Instrument :

BNA_G

ClientSampleId :

OR-03-11062025DL

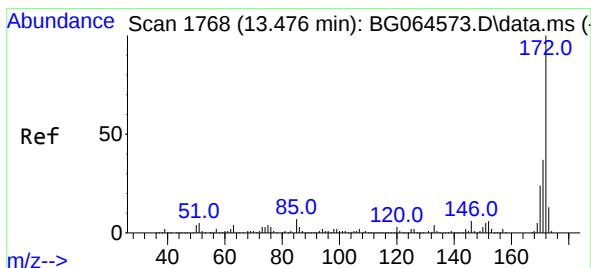
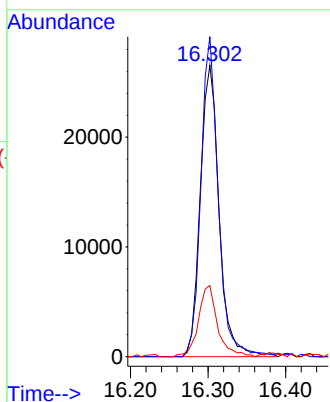
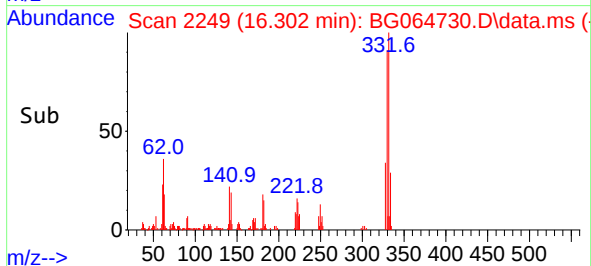


Tgt Ion:330 Resp: 4473
Ion Ratio Lower Upper
330 100
332 101.8 78.0 117.0
141 24.8 21.8 32.6

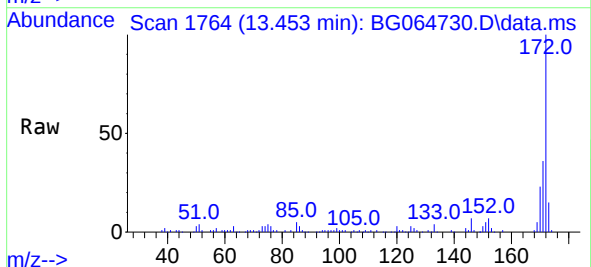
Manual Integrations

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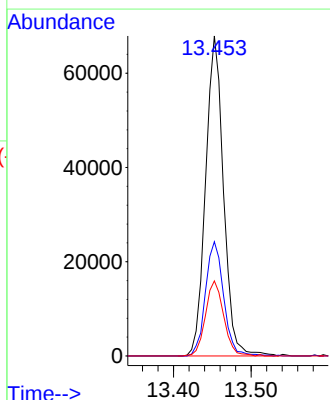
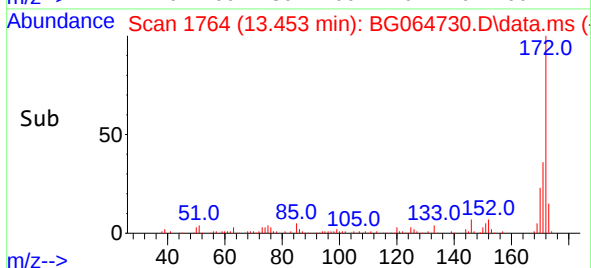
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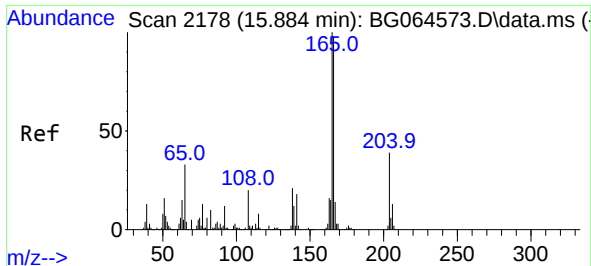


#45
2-Fluorobiphenyl
Concen: 12.383 ng
RT: 13.453 min Scan# 1764
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45



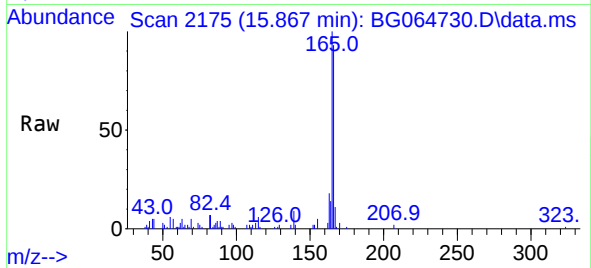
Tgt Ion:172 Resp: 109269
Ion Ratio Lower Upper
172 100
171 35.7 29.4 44.0
170 23.5 19.1 28.7





#58
Fluorene
Concen: 2.373 ng
RT: 15.867 min Scan# 2178
Delta R.T. -0.017 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

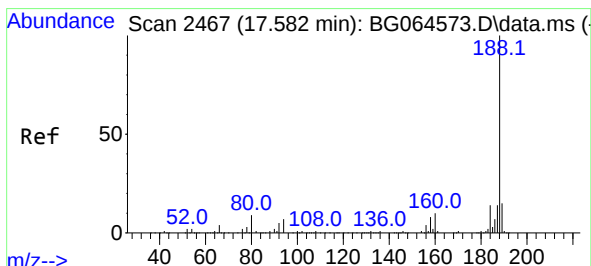
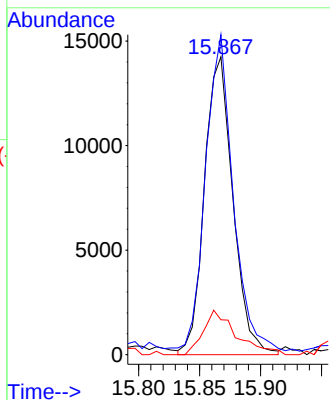
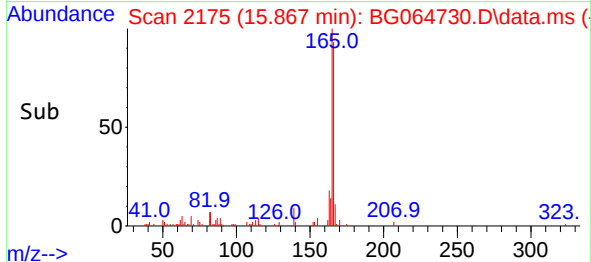
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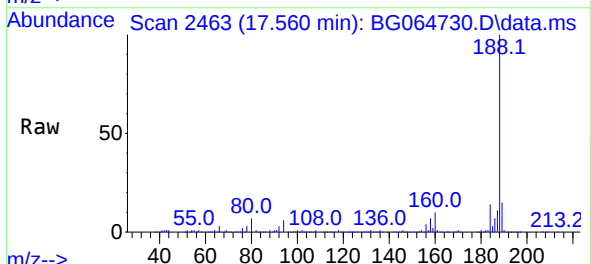
Tgt Ion:166 Resp: 2317
Ion Ratio Lower Upper
166 100
165 107.4 81.5 122.3
167 11.7 11.4 17.0

Manual Integrations
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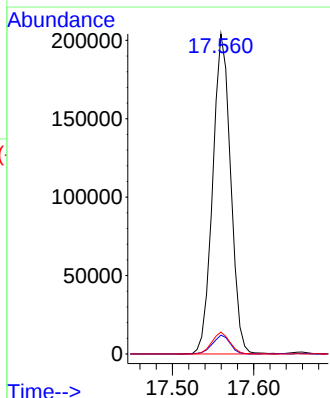
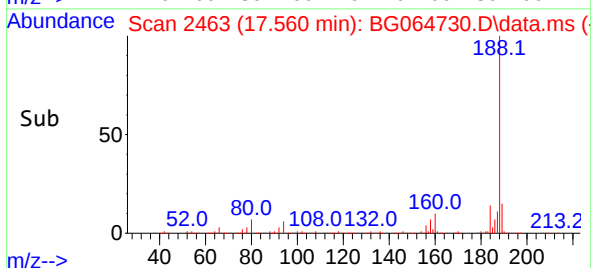
Reviewed By :Rahul Chavli 11/11/2025
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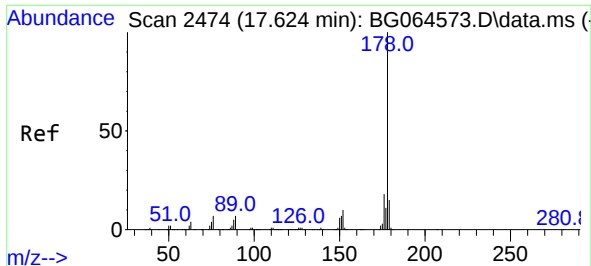


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.560 min Scan# 2463
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45



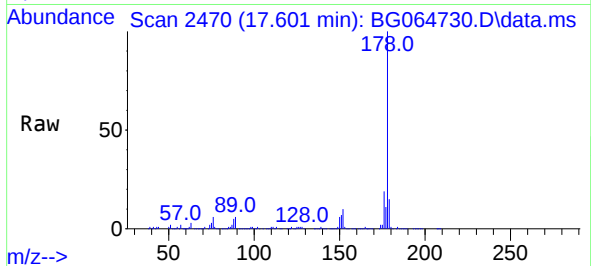
Tgt Ion:188 Resp: 313770
Ion Ratio Lower Upper
188 100
94 5.9 5.7 8.5
80 6.8 6.8 10.2





#71
Phenanthrene
Concen: 20.203 ng
RT: 17.601 min Scan# 2474
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

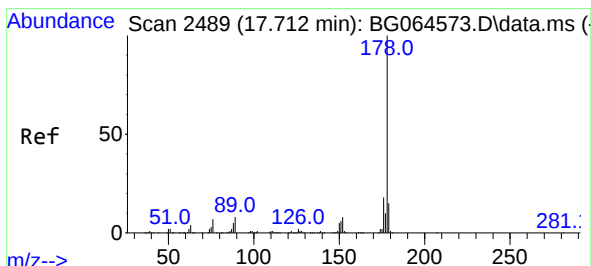
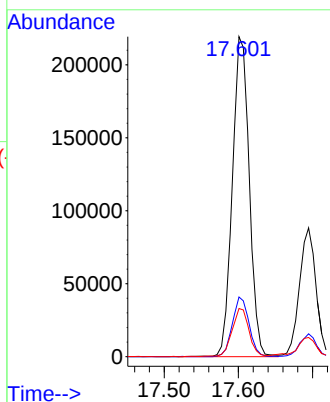
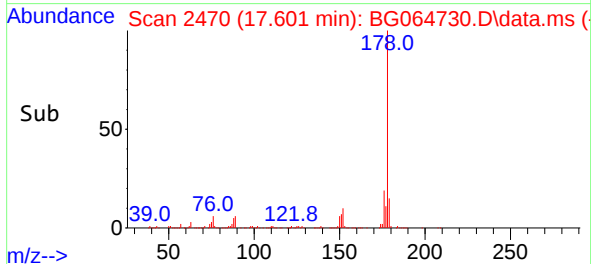
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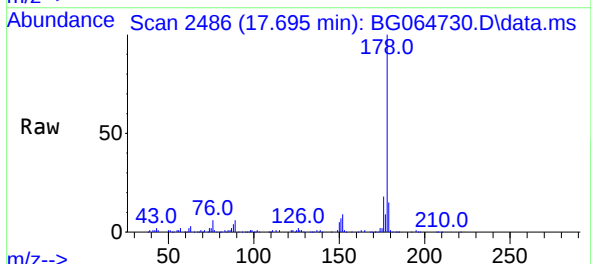
Tgt Ion:178 Resp: 346658
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.0 12.2 18.4

Manual Integrations
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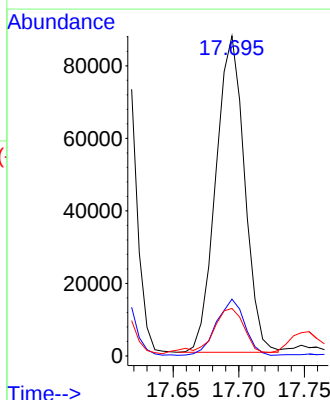
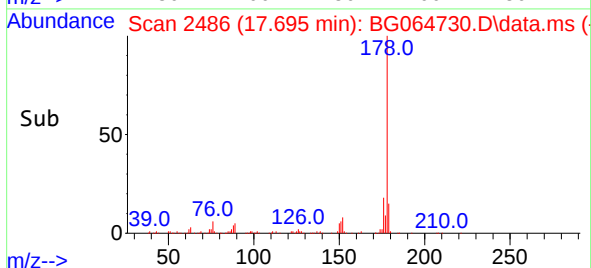
Reviewed By :Rahul Chavli 11/11/2025
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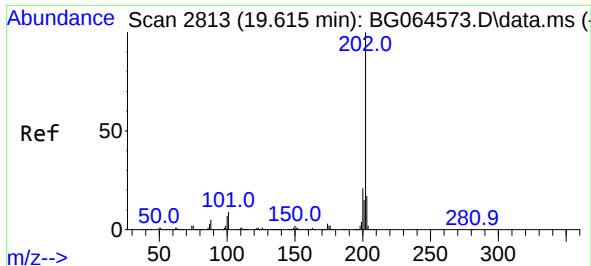


#72
Anthracene
Concen: 7.600 ng
RT: 17.695 min Scan# 2486
Delta R.T. -0.017 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45



Tgt Ion:178 Resp: 132656
Ion Ratio Lower Upper
178 100
176 17.7 14.4 21.6
179 14.9 12.4 18.6





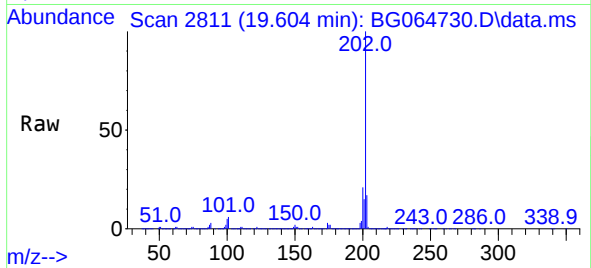
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Fluoranthene
Concen: 62.436 ng
RT: 19.604 min Scan# 21
Delta R.T. -0.011 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

Instrument :

BNA_G

ClientSampleId :

OR-03-11062025DL

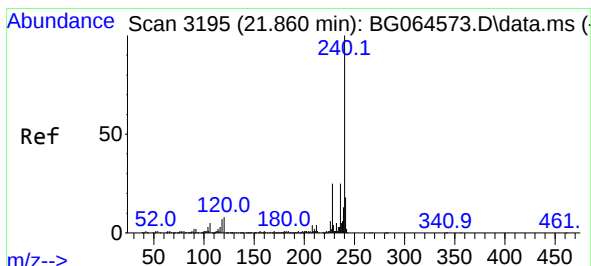
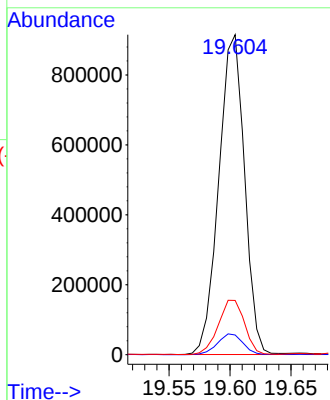
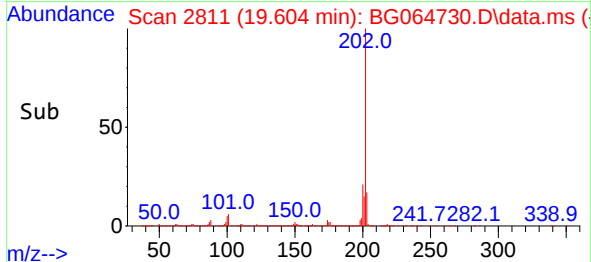


Tgt Ion:202 Resp: 134210
Ion Ratio Lower Upper
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203 17.0 0.0 37.0

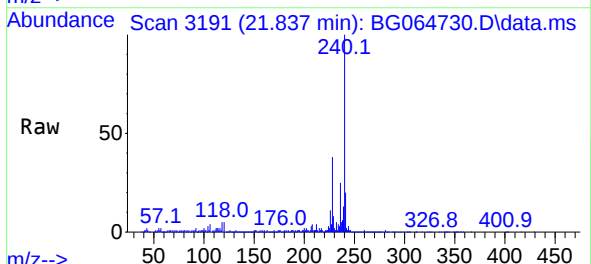
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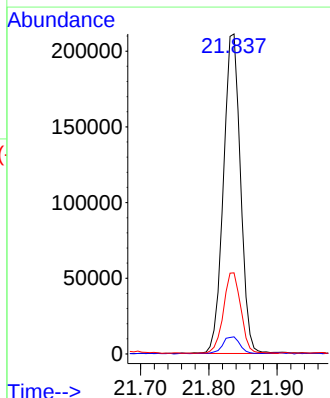
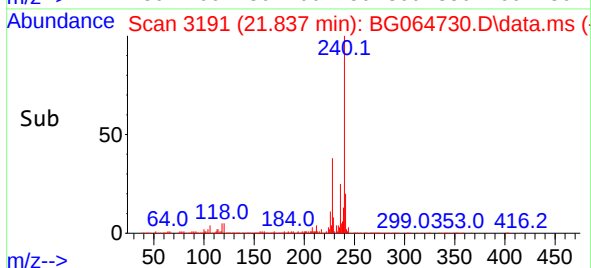
Reviewed By :Rahul Chavli 11/11/2025
Supervised By :Jagrut Upadhyay 11/11/2025

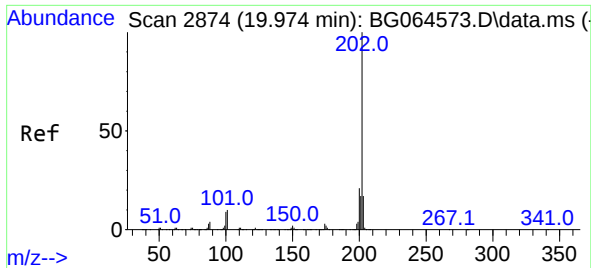


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.837 min Scan# 3191
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45



Tgt Ion:240 Resp: 368459
Ion Ratio Lower Upper
240 100
120 5.4 6.5 9.7#
236 25.3 20.2 30.2





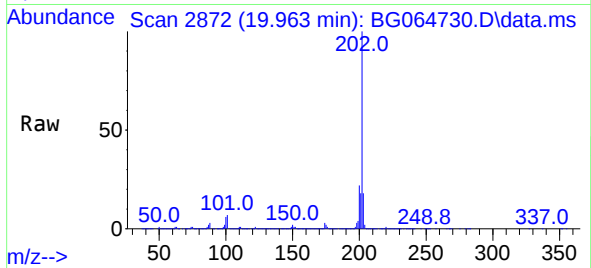
#78
Pyrene
Concen: 48.489 ng
RT: 19.963 min Scan# 21
Delta R.T. -0.011 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

Instrument :

BNA_G

ClientSampleId :

OR-03-11062025DL

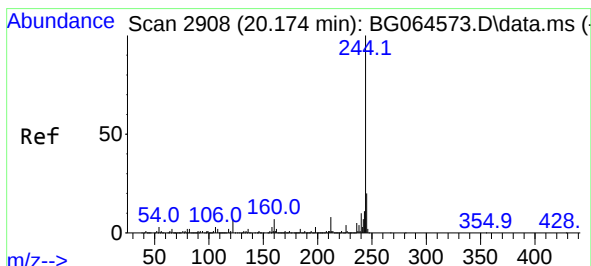
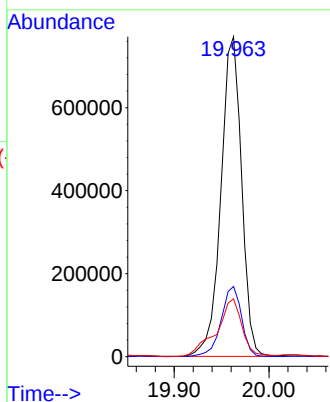
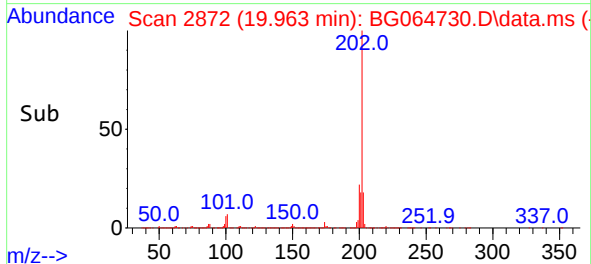


Tgt Ion:202 Resp: 116729
Ion Ratio Lower Upper
202 100
200 21.9 17.0 25.4
203 18.1 13.8 20.6

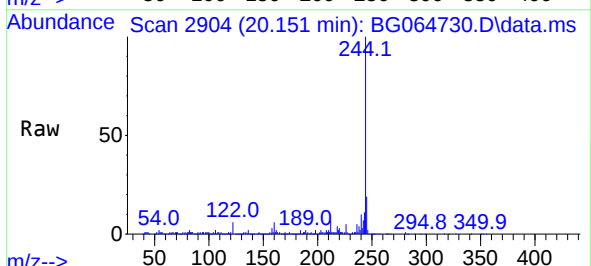
Manual Integrations

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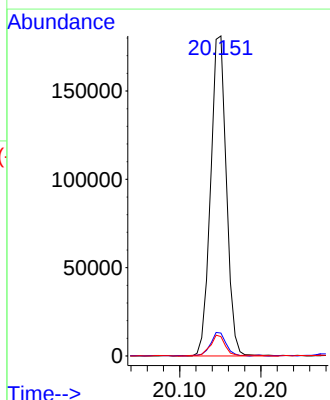
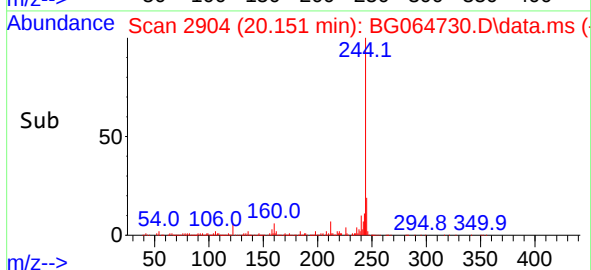
Reviewed By :Rahul Chavli 11/11/2025
Supervised By :Jagrut Upadhyay 11/11/2025

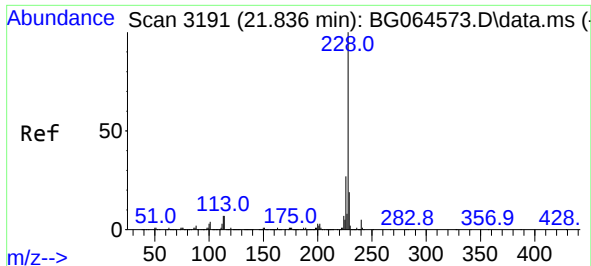


#79
Terphenyl-d14
Concen: 12.482 ng
RT: 20.151 min Scan# 2904
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45



Tgt Ion:244 Resp: 243704
Ion Ratio Lower Upper
244 100
212 7.2 6.1 9.1
122 6.0 5.6 8.4





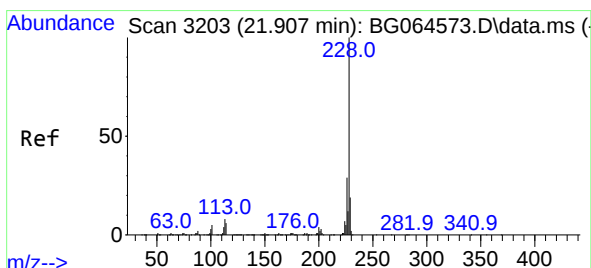
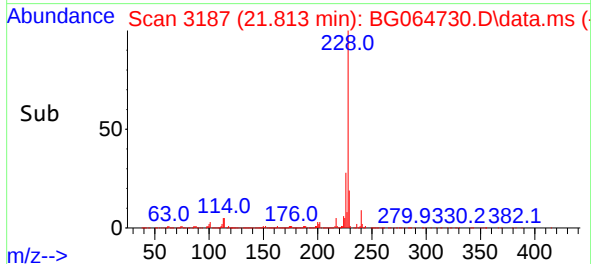
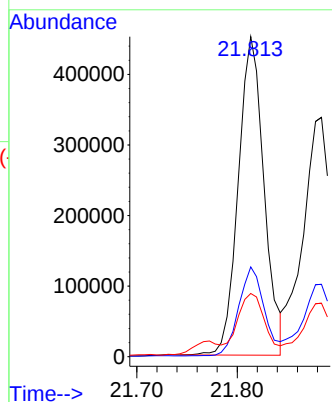
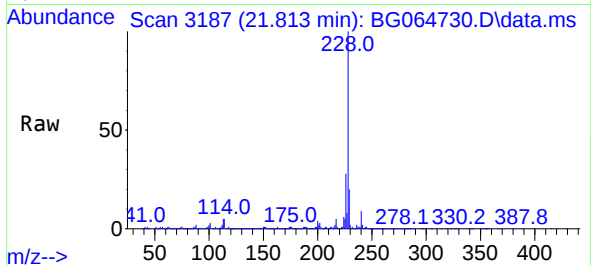
#81
Benzo(a)anthracene
Concen: 32.987 ng
RT: 21.813 min Scan# 3190
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

Instrument :
BNA_G
ClientSampleId :
OR-03-11062025DL

Tgt Ion:228 Resp: 805910
Ion Ratio Lower Upper
228 100
226 28.1 21.9 32.9
229 19.8 15.6 23.4

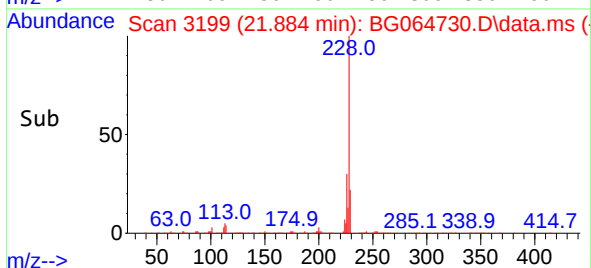
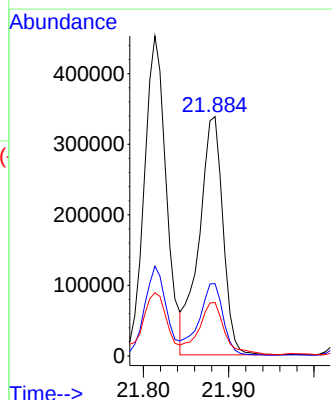
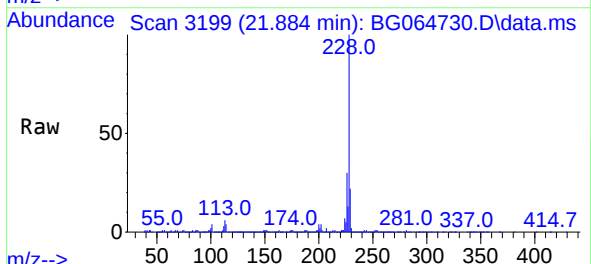
Manual Integrations
APPROVED

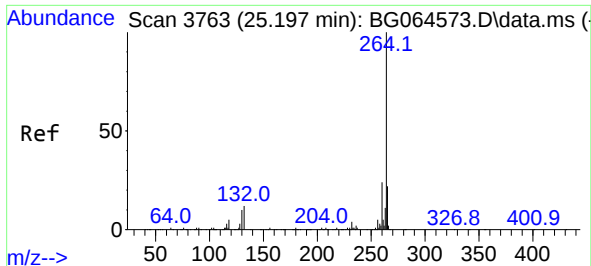
Reviewed By :Rahul Chavli 11/11/2025
Supervised By :Jagrut Upadhyay 11/11/2025



#83
Chrysene
Concen: 28.321 ng
RT: 21.884 min Scan# 3199
Delta R.T. -0.023 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

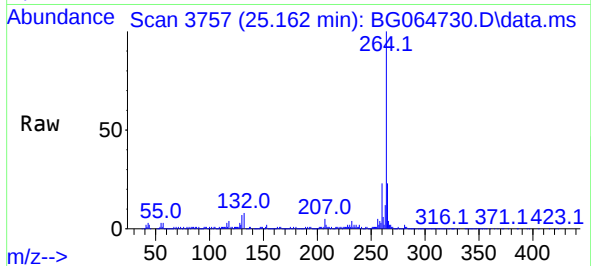
Tgt Ion:228 Resp: 658366
Ion Ratio Lower Upper
228 100
226 30.2 23.3 34.9
229 22.4 15.2 22.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.162 min Scan# 31
Delta R.T. -0.035 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

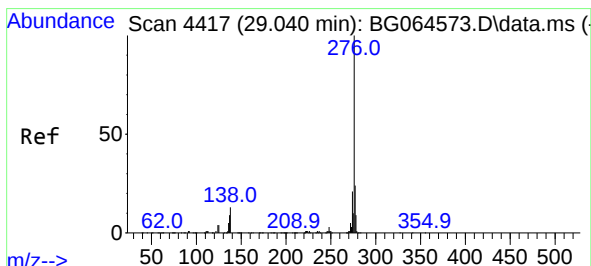
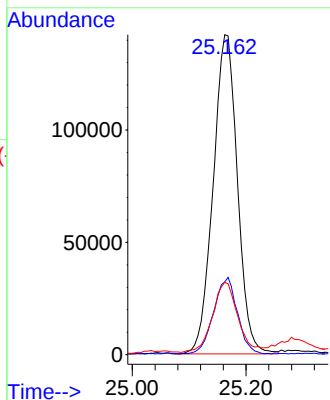
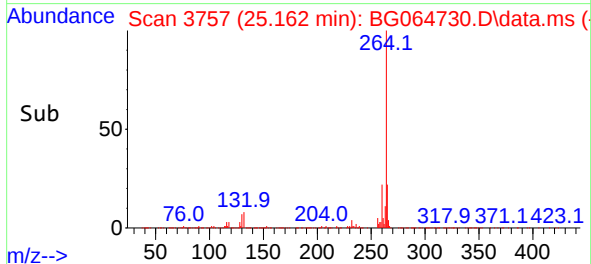
Instrument :
BNA_G
ClientSampleId :
OR-03-11062025DL



Tgt Ion:264 Resp: 420989
Ion Ratio Lower Upper
264 100
260 22.7 19.0 28.4
265 22.6 17.6 26.4

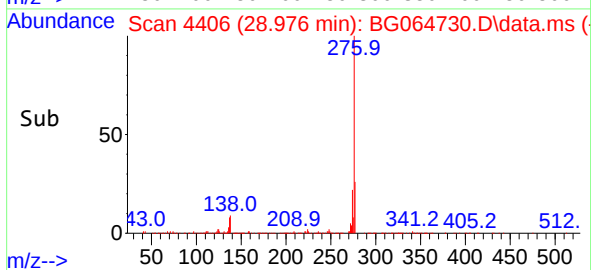
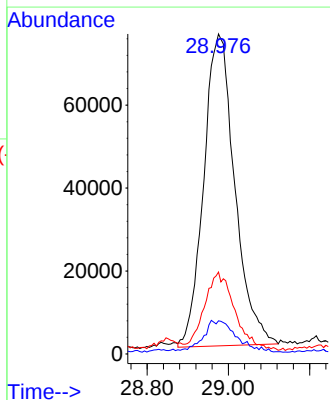
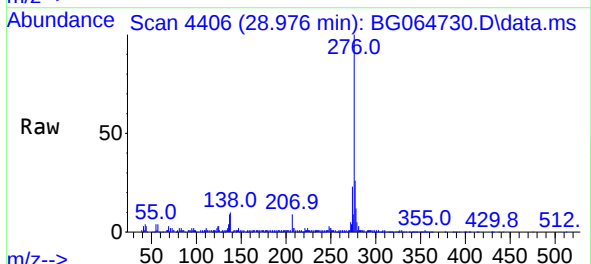
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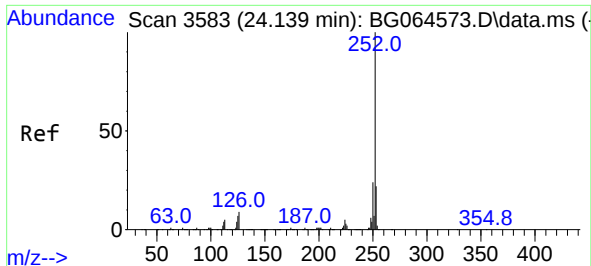
Reviewed By :Rahul Chavli 11/11/2025
Supervised By :Jagrut Upadhyay 11/11/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 12.895 ng
RT: 28.976 min Scan# 4406
Delta R.T. -0.064 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

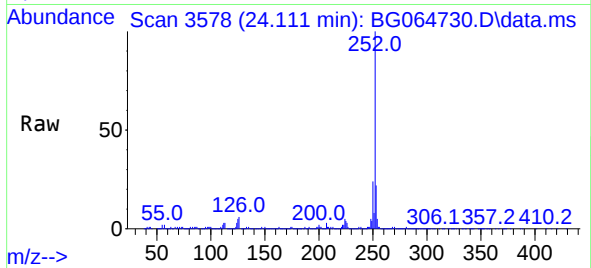
Tgt Ion:276 Resp: 399352
Ion Ratio Lower Upper
276 100
138 3.9 10.8 16.2#
277 24.7 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 34.243 ng
RT: 24.111 min Scan# 31
Delta R.T. -0.029 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

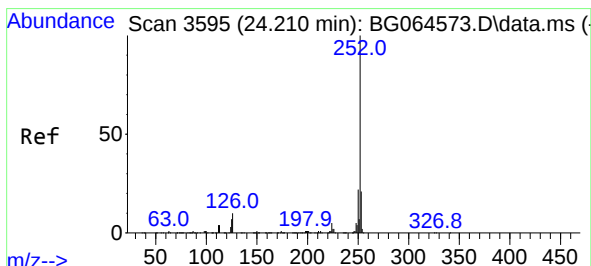
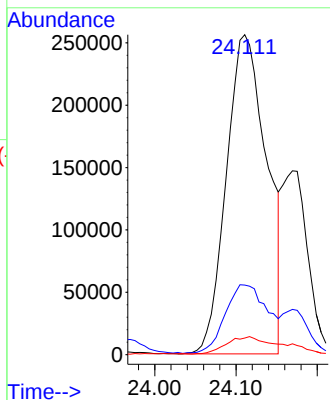
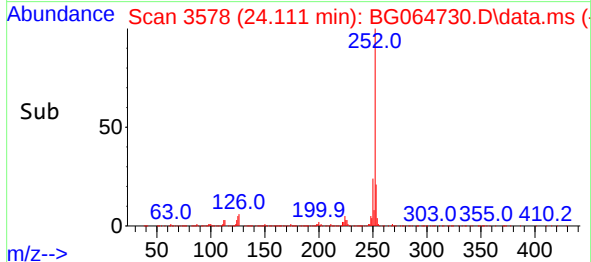
Instrument :
BNA_G
ClientSampleId :
OR-03-11062025DL



Tgt Ion:252 Resp: 883970
Ion Ratio Lower Upper
252 100
253 21.7 17.8 26.8
125 5.2 5.6 8.4

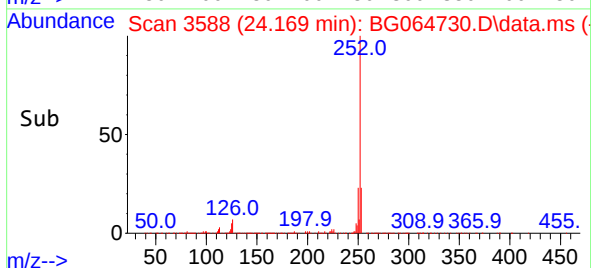
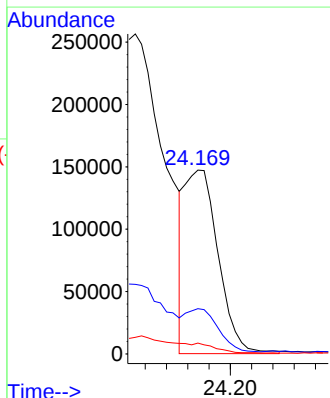
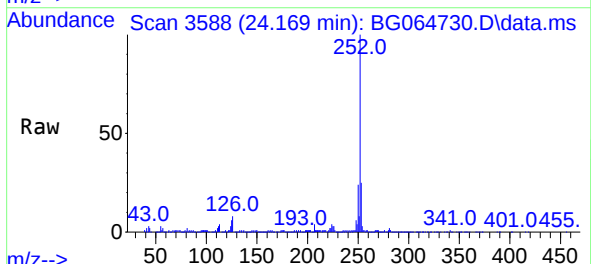
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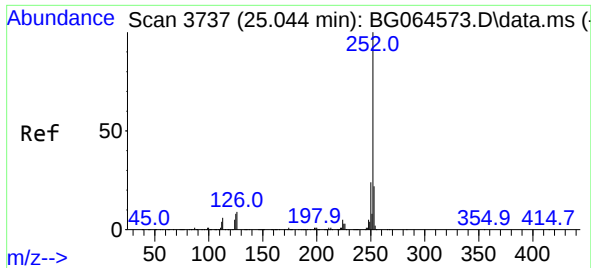
Reviewed By :Rahul Chavli 11/11/2025
Supervised By :Jagrut Upadhyay 11/11/2025



#89
Benzo(k)fluoranthene
Concen: 12.466 ng m
RT: 24.169 min Scan# 3588
Delta R.T. -0.041 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

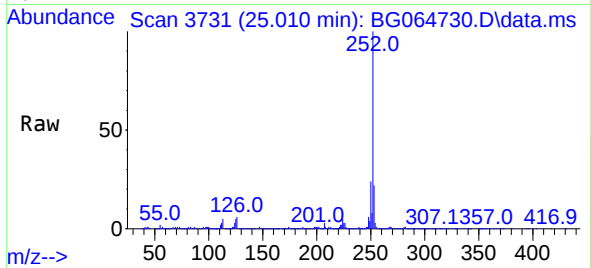
Tgt Ion:252 Resp: 322019
Ion Ratio Lower Upper
252 100
253 24.6 16.8 25.2
125 6.0 5.4 8.0





#90
Benzo(a)pyrene
Concen: 28.829 ng m
RT: 25.010 min Scan# 31
Delta R.T. -0.035 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45

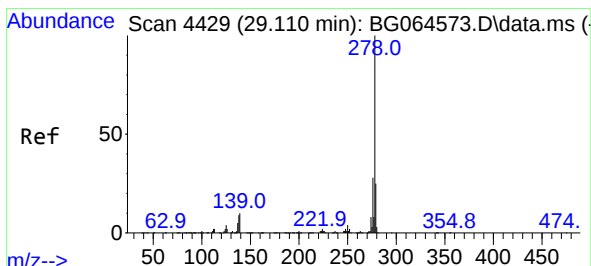
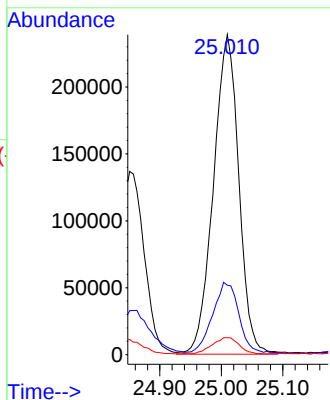
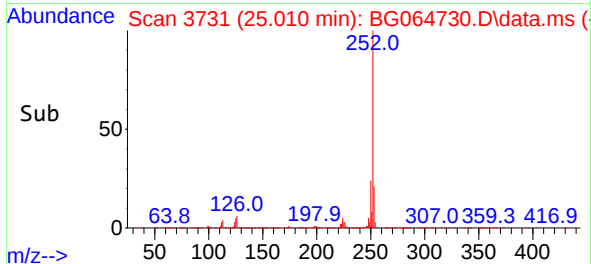
Instrument :
BNA_G
ClientSampleId :
OR-03-11062025DL



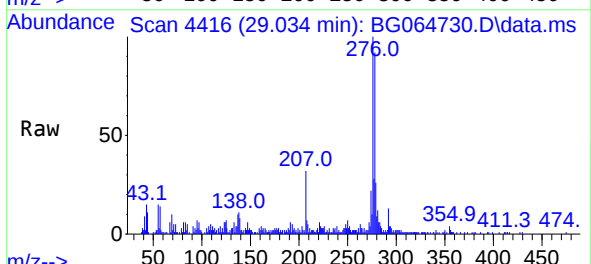
Tgt Ion:252 Resp: 684104
Ion Ratio Lower Upper
252 100
253 21.7 17.6 26.4
125 5.3 6.1 9.1

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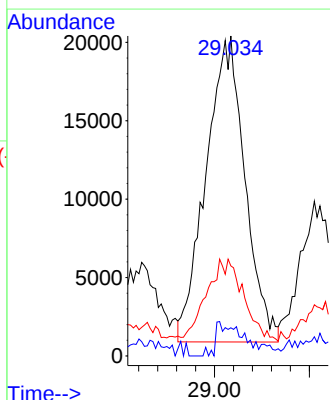
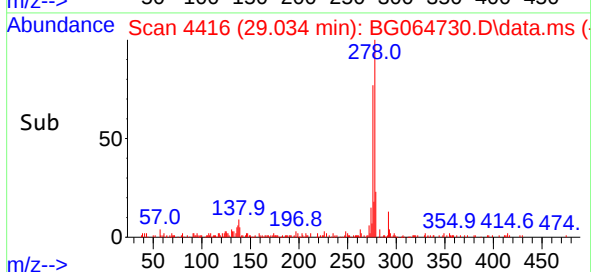
Reviewed By :Rahul Chavli 11/11/2025
Supervised By :Jagrut Upadhyay 11/11/2025

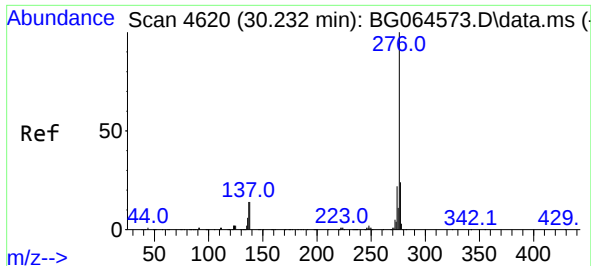


#91
Dibenzo(a,h)anthracene
Concen: 4.420 ng
RT: 29.034 min Scan# 4416
Delta R.T. -0.076 min
Lab File: BG064730.D
Acq: 10 Nov 2025 12:45



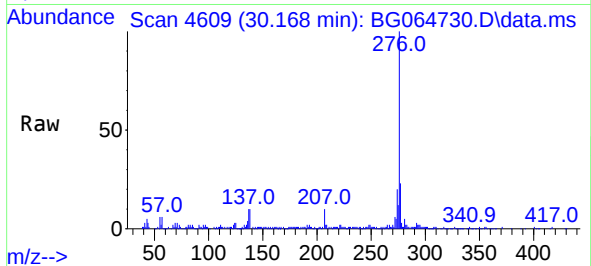
Tgt Ion:278 Resp: 111197
Ion Ratio Lower Upper
278 100
139 8.8 8.0 12.0
279 28.1 19.8 29.6





#92
 Benzo(g,h,i)perylene
 Concen: 14.559 ng
 RT: 30.168 min Scan# 40
 Delta R.T. -0.064 min
 Lab File: BG064730.D
 Acq: 10 Nov 2025 12:45

Instrument :
 BNA_G
 ClientSampleId :
 OR-03-11062025DL



Tgt Ion:276 Resp: 349924
 Ion Ratio Lower Upper
 276 100
 277 22.9 19.1 28.7
 138 10.4 11.3 16.9

Manual Integrations
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Reviewed By :Rahul Chavli 11/11/2025
 Supervised By :Jagrut Upadhyay 11/11/2025

