

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121025\
 Data File : BG064928.D
 Acq On : 10 Dec 2025 19:54
 Operator : RC/JU
 Sample : Q3812-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-120825

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025

Quant Time: Dec 10 23:37:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 12 17:10:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.159	152	21853	20.000	ng	0.00
21) Naphthalene-d8	10.973	136	83927	20.000	ng	#-0.01
39) Acenaphthene-d10	14.763	164	72858	20.000	ng	-0.01
64) Phenanthrene-d10	17.495	188	173197	20.000	ng	# 0.00
76) Chrysene-d12	21.755	240	213755	20.000	ng	# 0.00
86) Perylene-d12	25.027	264	245409	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.691	112	93120	74.410	ng	0.00
7) Phenol-d6	7.301	99	119849	72.004	ng	0.00
23) Nitrobenzene-d5	9.316	82	79048	46.569	ng	-0.01
42) 2,4,6-Tribromophenol	16.243	330	130821	92.065	ng	0.00
45) 2-Fluorobiphenyl	13.394	172	269195	51.555	ng	-0.01
79) Terphenyl-d14	20.086	244	594400	54.700	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.020	128	25410	5.341	ng	# 94
37) 2-Methylnaphthalene	12.612	142	16601	4.663	ng	96
38) 1-Methylnaphthalene	12.830	142	14597	4.127	ng	98
49) Acenaphthylene	14.493	152	37331	5.300	ng	99
52) Acenaphthene	14.827	154	55952	13.249	ng	98
55) Dibenzofuran	15.156	168	91434	13.097	ng	95
58) Fluorene	15.803	166	126056	23.021	ng	97
71) Phenanthrene	17.548	178	1702240	179.633	ng	98
72) Anthracene	17.630	178	500253	51.772	ng	100
73) Carbazole	17.889	167	125909	15.158	ng	99
75) Fluoranthene	19.545	202	2748041	212.070	ng	94
78) Pyrene	19.904	202	2438702	203.563	ng	97
81) Benzo(a)anthracene	21.737	228	1561383	107.426	ng	99
83) Chrysene	21.808	228	1298101	94.732	ng	97
87) Indeno(1,2,3-cd)pyrene	28.776	276	821911	48.748	ng	# 96
88) Benzo(b)fluoranthene	23.999	252	1795008	114.936	ng	# 96
89) Benzo(k)fluoranthene	24.052	252	698268m	44.504	ng	
90) Benzo(a)pyrene	24.886	252	1401221m	96.721	ng	
91) Dibenzo(a,h)anthracene	28.811	278	189951	13.752	ng	# 88
92) Benzo(g,h,i)perylene	29.939	276	769085	57.856	ng	# 95

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

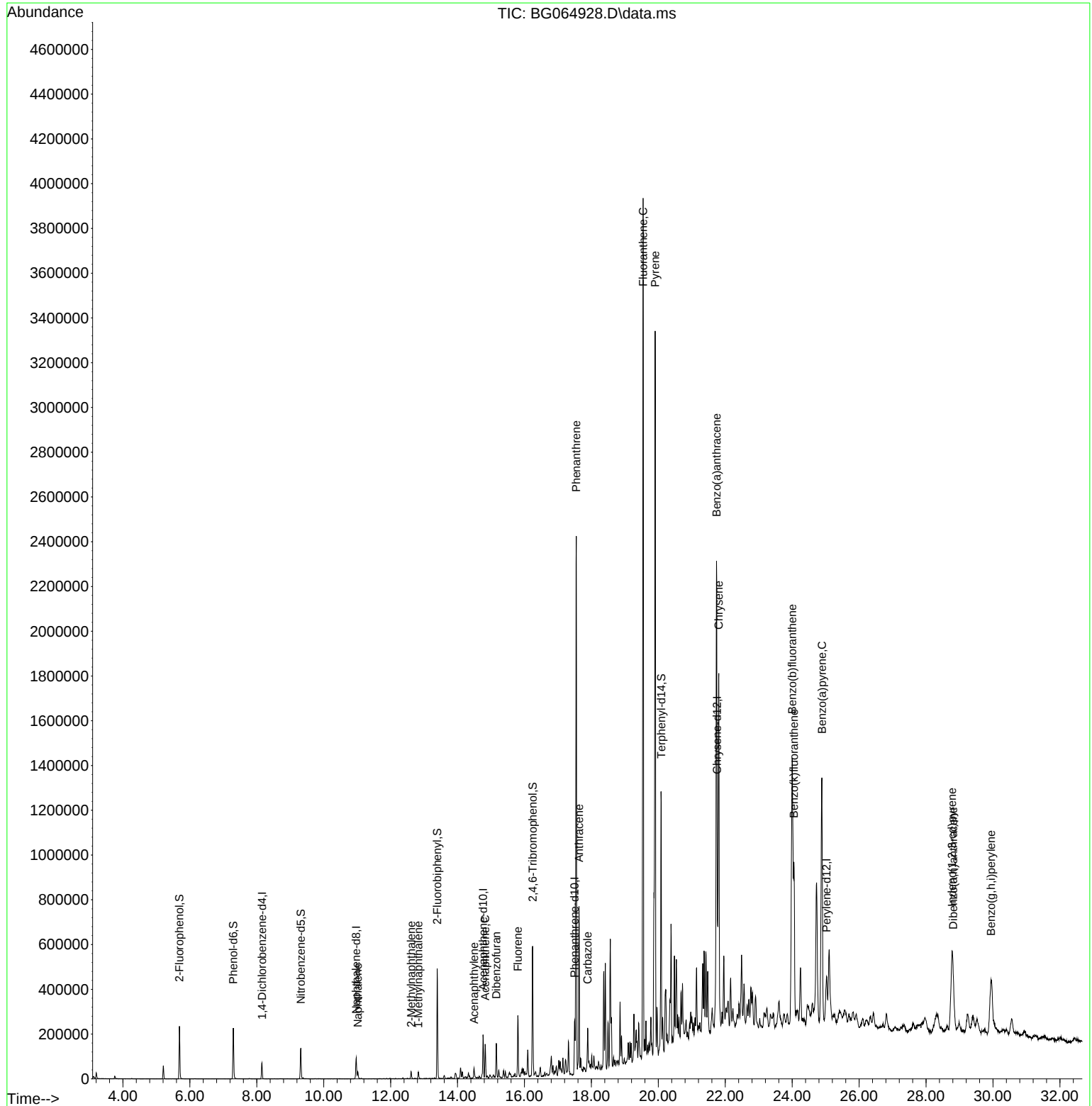
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121025\
Data File : BG064928.D
Acq On : 10 Dec 2025 19:54
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Sample : Q3812-01
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ALS Vial : 13 Sample Multiplier: 1

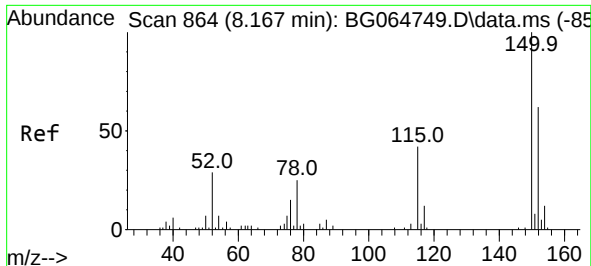
Instrument :
BNA_G
ClientSampleId :
OR-02-120825

Quant Time: Dec 10 23:37:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 12 17:10:56 2025
Response via : Initial Calibration

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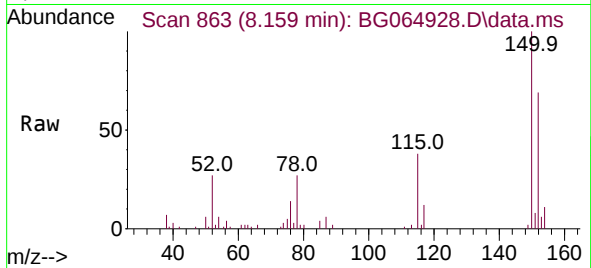
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.159 min Scan# 863
Delta R.T. -0.008 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

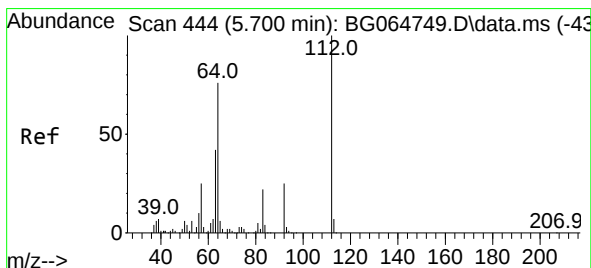
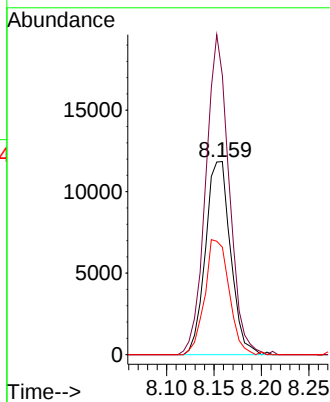
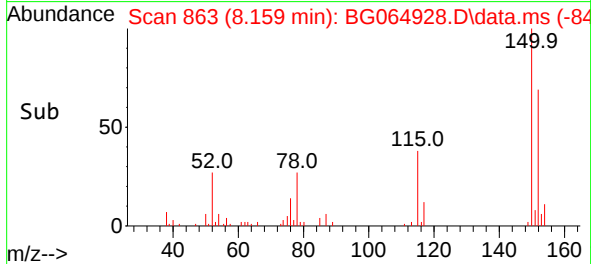
Instrument :
BNA_G
ClientSampleId :
OR-02-120825



Tgt Ion:152 Resp: 2185
Ion Ratio Lower Upper
152 100
150 144.6 129.2 193.8
115 55.6 53.7 80.5

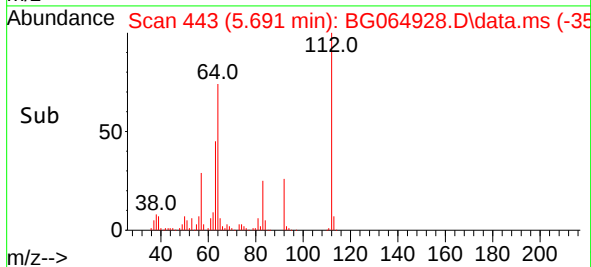
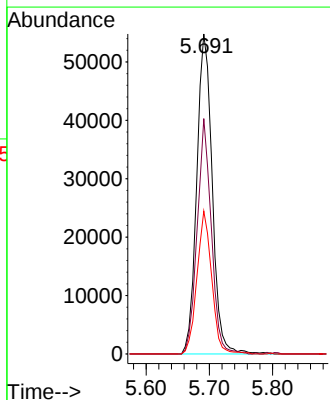
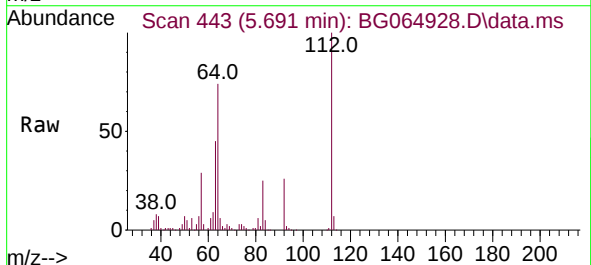
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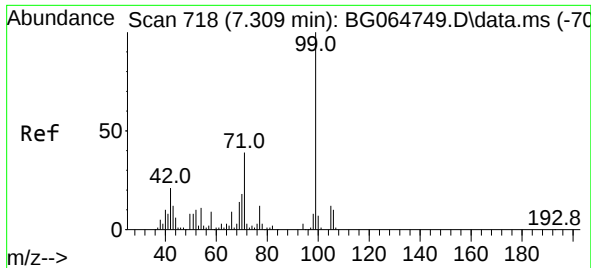
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#5
2-Fluorophenol
Concen: 74.410 ng
RT: 5.691 min Scan# 443
Delta R.T. -0.008 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

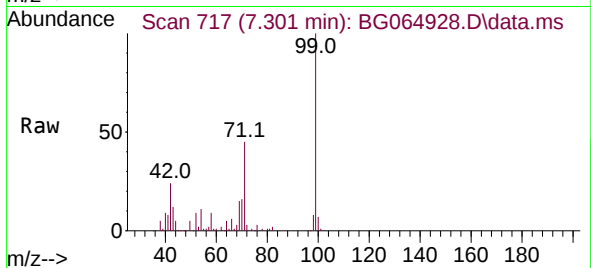
Tgt Ion:112 Resp: 93120
Ion Ratio Lower Upper
112 100
64 73.5 61.0 91.4
63 44.6 33.3 49.9





#7
Phenol-d6
Concen: 72.004 ng
RT: 7.301 min Scan# 71
Delta R.T. -0.008 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

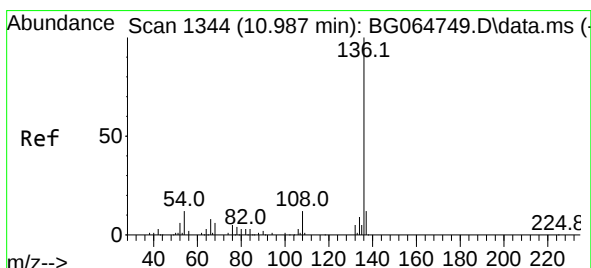
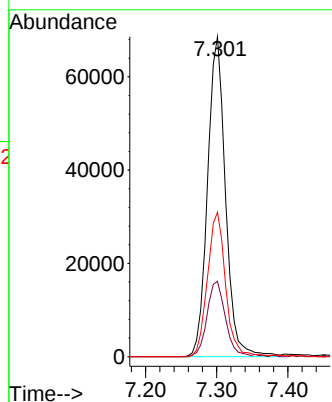
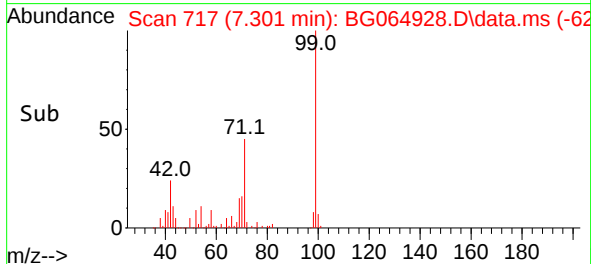
Instrument :
BNA_G
ClientSampleId :
OR-02-120825



Tgt Ion: 99 Resp: 119849
Ion Ratio Lower Upper
99 100
42 23.5 16.8 25.2
71 45.1 31.1 46.7

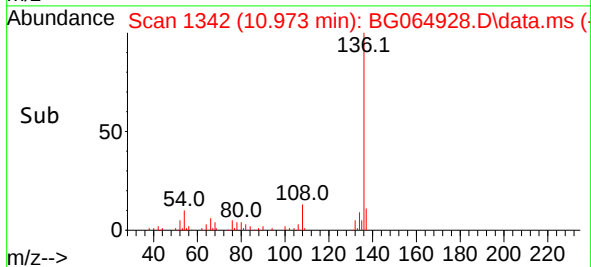
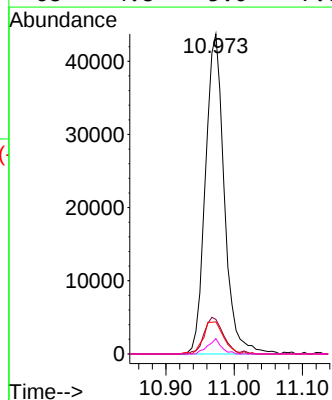
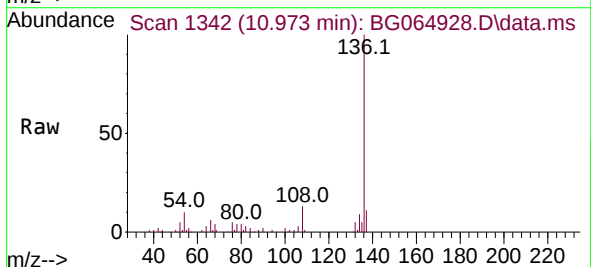
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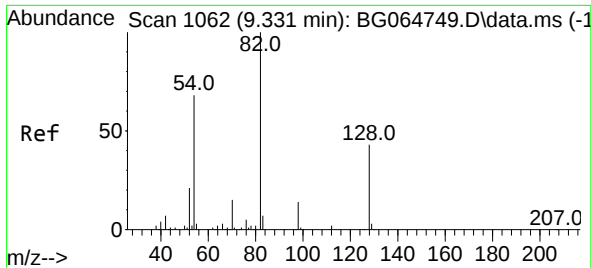
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.973 min Scan# 1342
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

Tgt Ion:136 Resp: 83927
Ion Ratio Lower Upper
136 100
137 10.8 9.3 13.9
54 10.0 9.3 13.9
68 4.8 5.0 7.6#





#23
Nitrobenzene-d5
Concen: 46.569 ng
RT: 9.316 min Scan# 1060
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

Instrument :

BNA_G

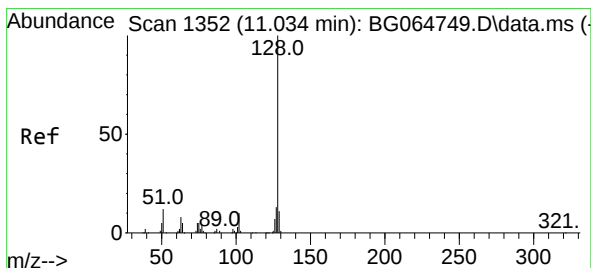
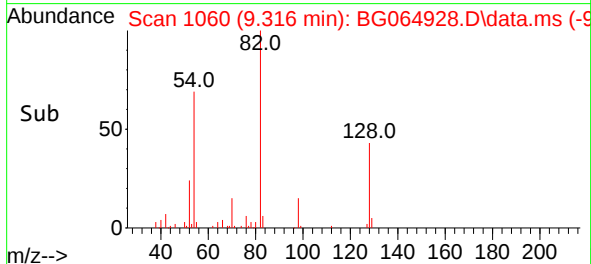
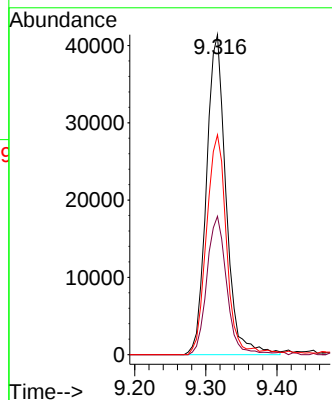
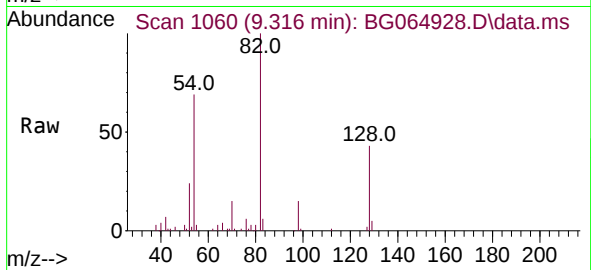
ClientSampleId :

OR-02-120825

Tgt Ion: 82 Resp: 79048
Ion Ratio Lower Upper
82 100
128 43.2 34.1 51.1
54 68.7 54.3 81.5

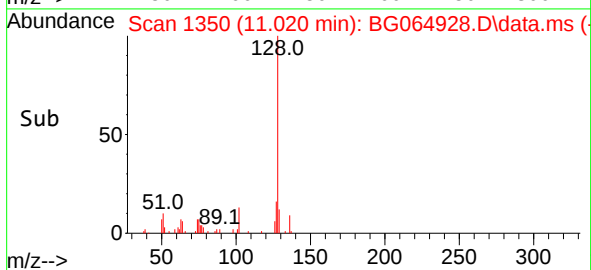
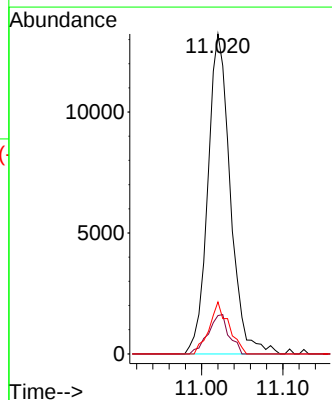
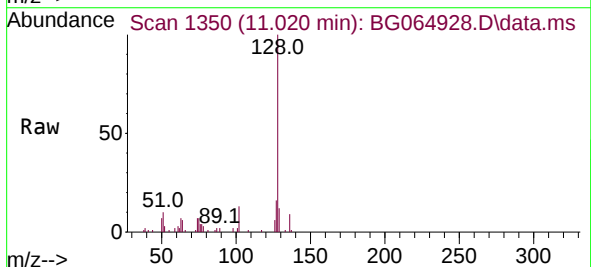
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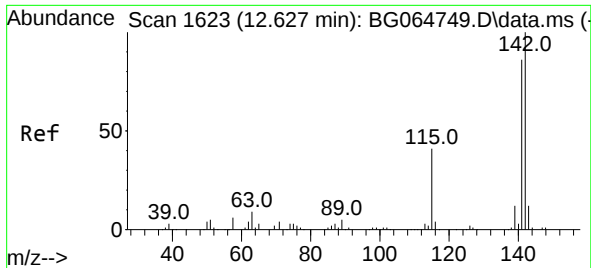
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#31
Naphthalene
Concen: 5.341 ng
RT: 11.020 min Scan# 1350
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

Tgt Ion:128 Resp: 25410
Ion Ratio Lower Upper
128 100
129 12.0 8.6 12.8
127 16.2 10.6 16.0#





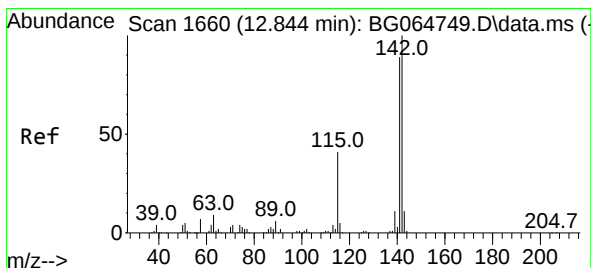
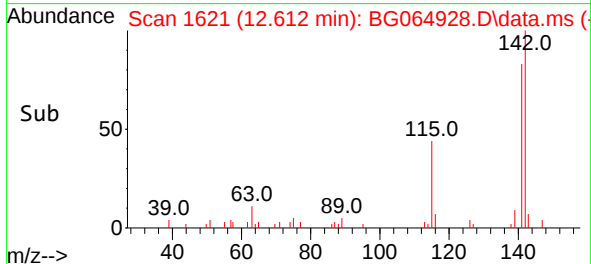
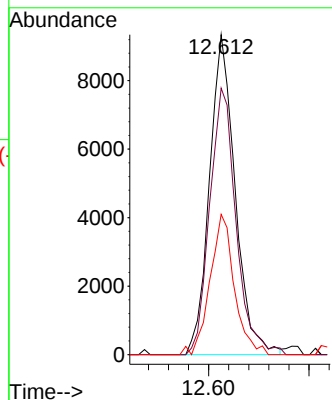
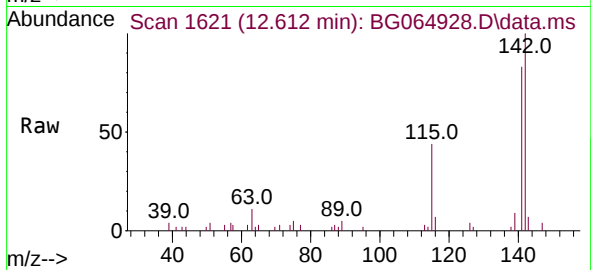
#37
2-Methylnaphthalene
Concen: 4.663 ng
RT: 12.612 min Scan# 1660
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

Instrument :
BNA_G
ClientSampleId :
OR-02-120825

Tgt Ion:142 Resp: 1660
Ion Ratio Lower Upper
142 100
141 83.3 69.1 103.7
115 43.9 32.9 49.3

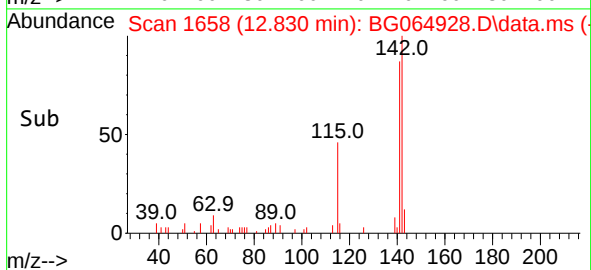
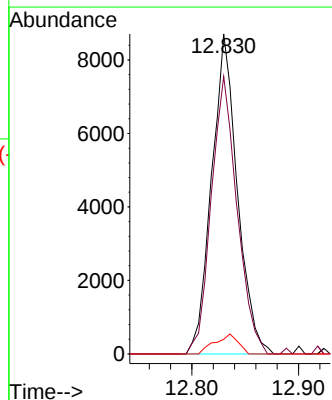
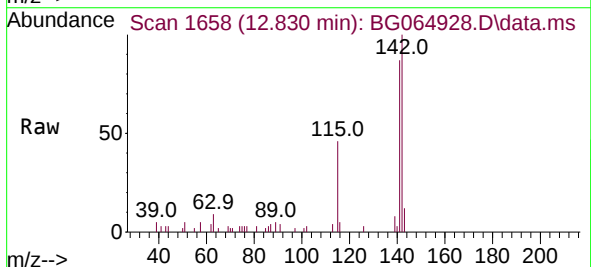
Manual Integrations
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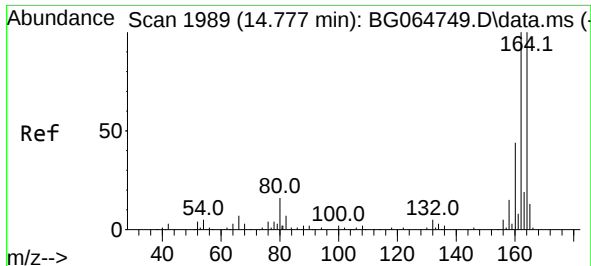
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#38
1-Methylnaphthalene
Concen: 4.127 ng
RT: 12.830 min Scan# 1658
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

Tgt Ion:142 Resp: 14597
Ion Ratio Lower Upper
142 100
141 86.7 70.8 106.2
116 4.6 3.7 5.5





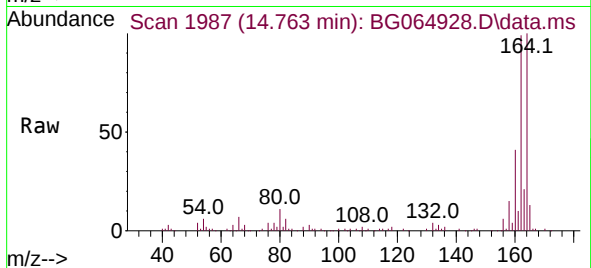
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.763 min Scan# 1987
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

Instrument :

BNA_G

ClientSampleId :

OR-02-120825

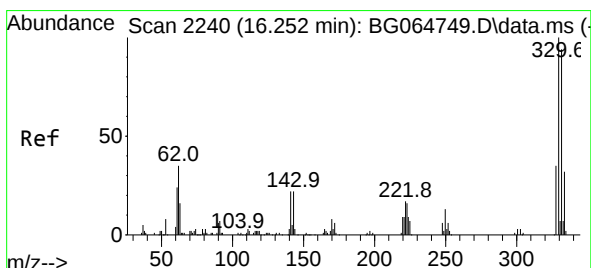
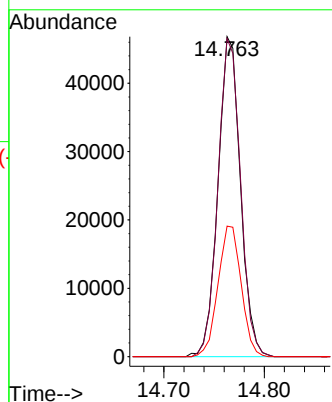
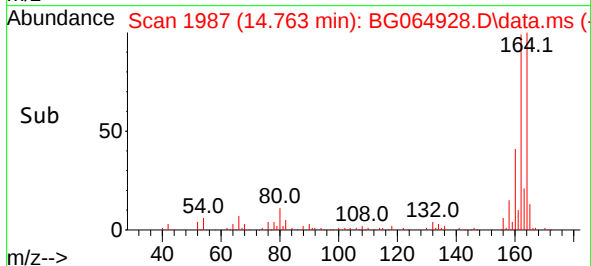


Tgt Ion:164 Resp: 72858
Ion Ratio Lower Upper
164 100
162 99.4 79.8 119.6
160 40.8 34.9 52.3

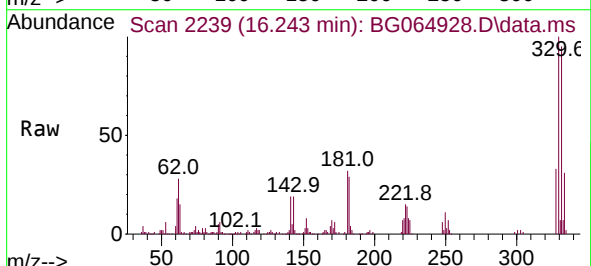
Manual Integrations

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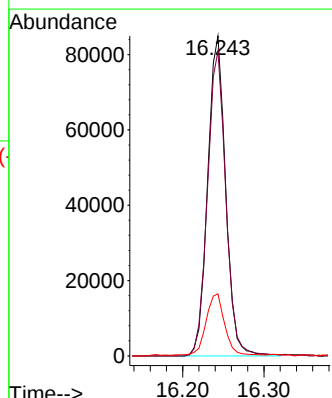
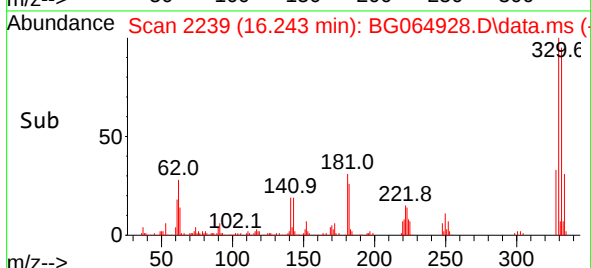
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

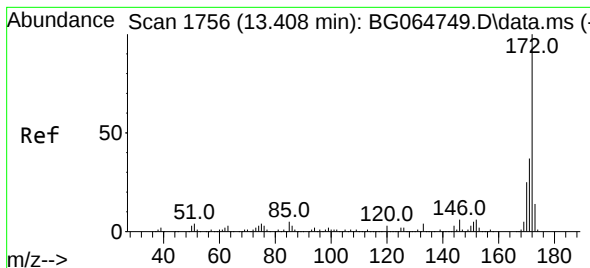


#42
2,4,6-Tribromophenol
Concen: 92.065 ng
RT: 16.243 min Scan# 2239
Delta R.T. -0.008 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54



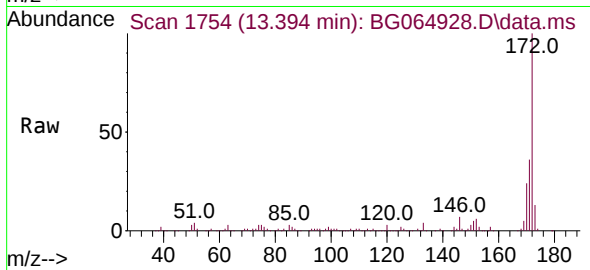
Tgt Ion:330 Resp: 130821
Ion Ratio Lower Upper
330 100
332 97.5 77.0 115.6
141 20.1 18.2 27.2





#45
2-Fluorobiphenyl
Concen: 51.555 ng
RT: 13.394 min Scan# 1754
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

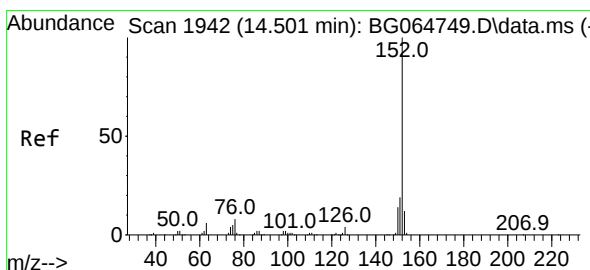
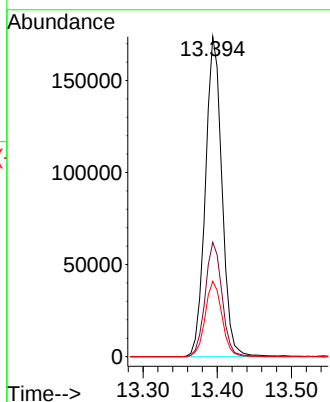
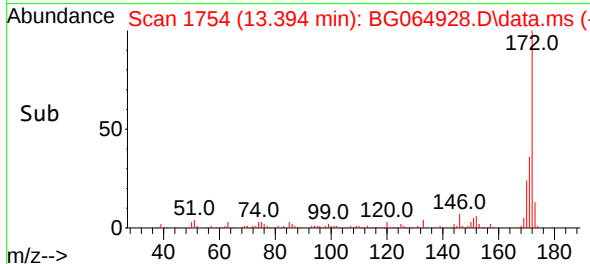
Instrument :
BNA_G
ClientSampleId :
OR-02-120825



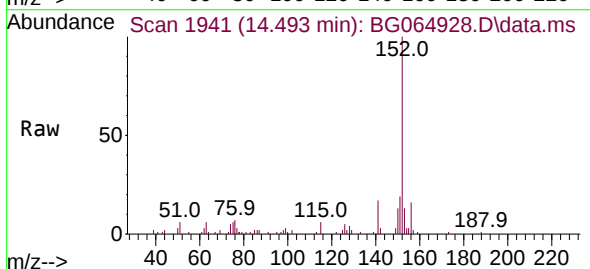
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Ion Ratio Lower Upper
172 100
171 35.7 29.9 44.9
170 23.5 19.8 29.6

Manual Integrations
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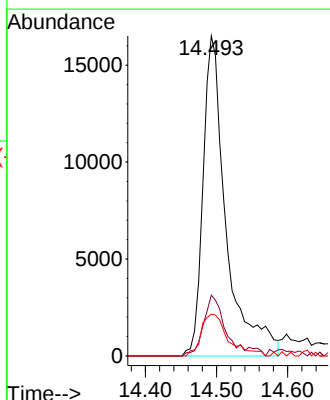
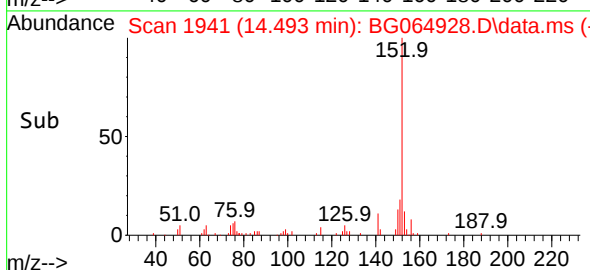
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

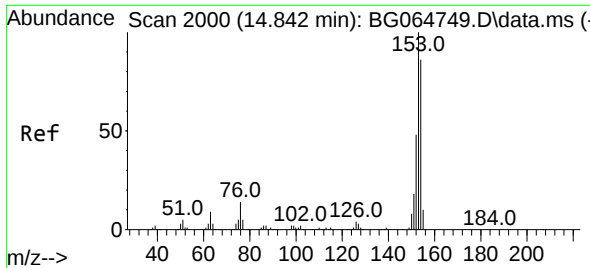


#49
Acenaphthylene
Concen: 5.300 ng
RT: 14.493 min Scan# 1941
Delta R.T. -0.008 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54



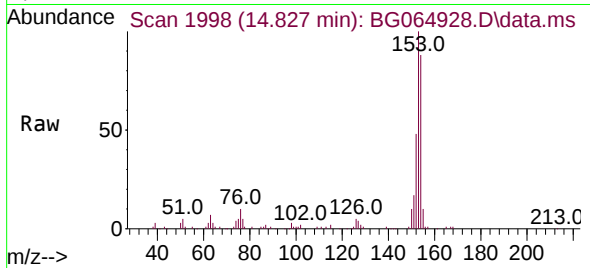
Tgt Ion:152 Resp: 37331
Ion Ratio Lower Upper
152 100
151 19.0 15.0 22.4
153 13.0 9.9 14.9





#52
Acenaphthene
Concen: 13.249 ng
RT: 14.827 min Scan# 1998
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

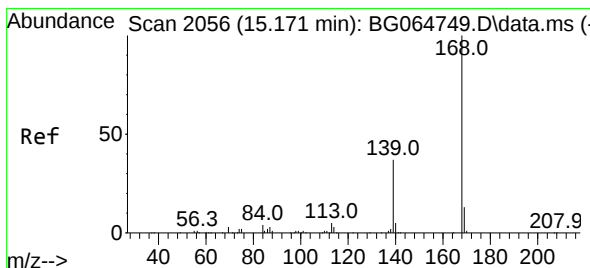
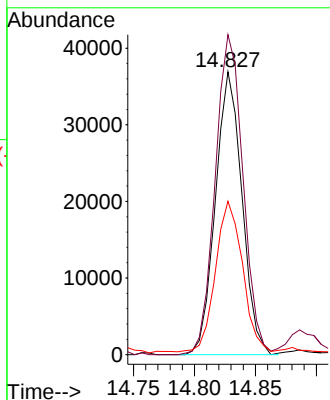
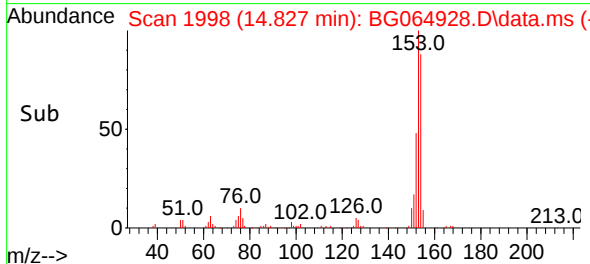
Instrument :
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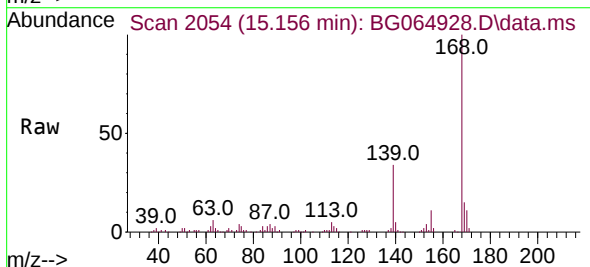
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Ion Ratio Lower Upper
154 100
153 113.2 93.0 139.4
152 54.2 44.4 66.6

Manual Integrations
APPROVED

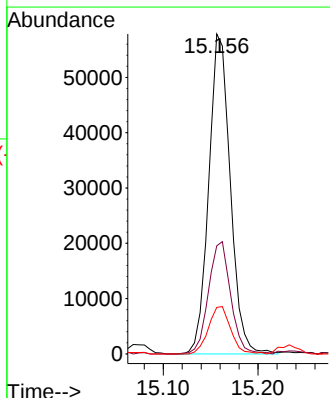
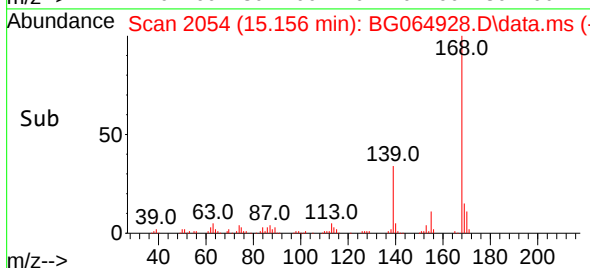
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

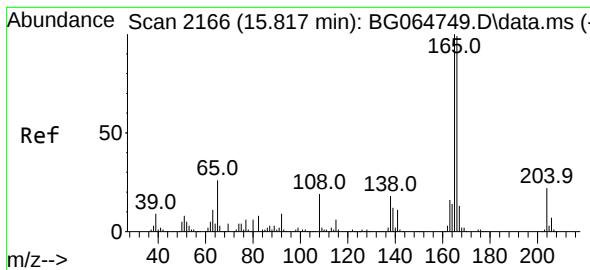


#55
Dibenzofuran
Concen: 13.097 ng
RT: 15.156 min Scan# 2054
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54



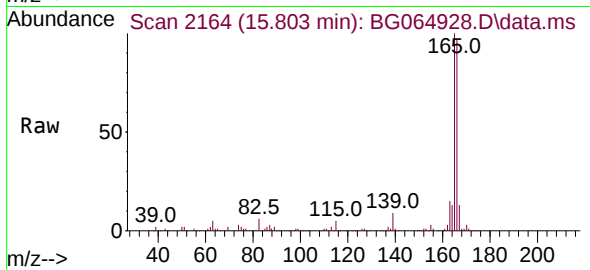
Tgt Ion:168 Resp: 91434
Ion Ratio Lower Upper
168 100
139 33.8 29.5 44.3
169 14.6 10.4 15.6





#58
Fluorene
Concen: 23.021 ng
RT: 15.803 min Scan# 2166
Delta R.T. -0.014 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

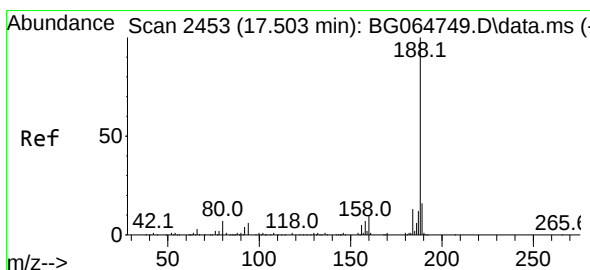
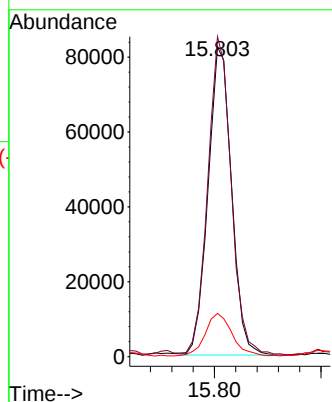
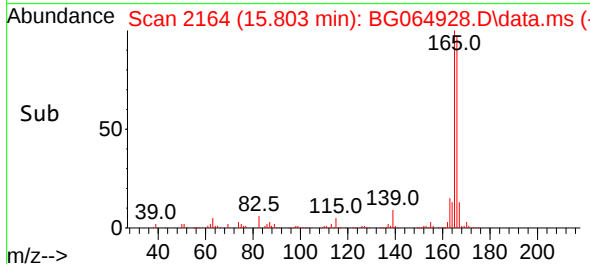
Instrument :
BNA_G
ClientSampleId :
OR-02-120825



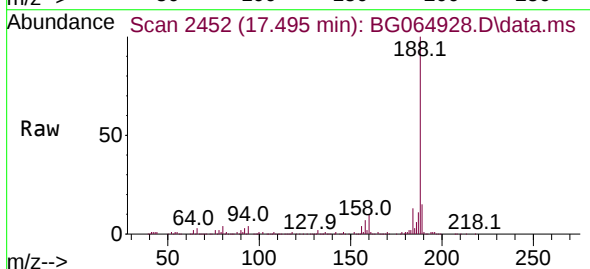
Tgt Ion:166 Resp: 126056
Ion Ratio Lower Upper
166 100
165 103.3 80.5 120.7
167 13.9 10.3 15.5

Manual Integrations
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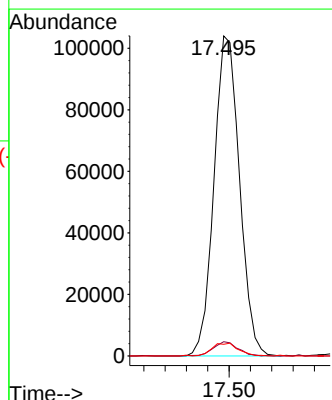
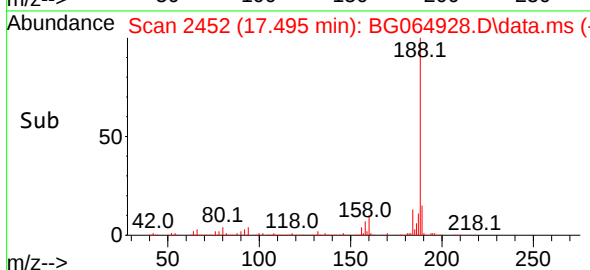
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

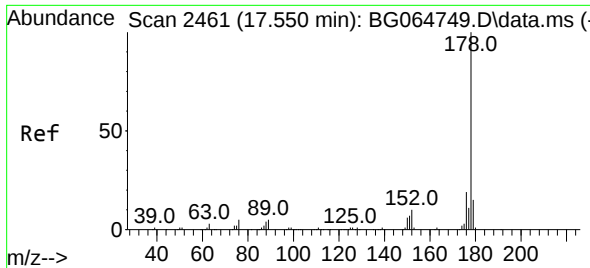


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.495 min Scan# 2452
Delta R.T. -0.008 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54



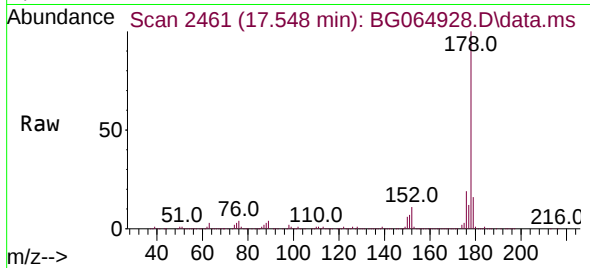
Tgt Ion:188 Resp: 173197
Ion Ratio Lower Upper
188 100
94 4.4 4.7 7.1#
80 3.6 5.4 8.2#





#71
Phenanthrene
Concen: 179.633 ng
RT: 17.548 min Scan# 2461
Delta R.T. -0.003 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

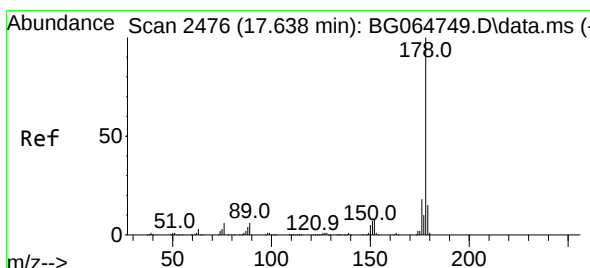
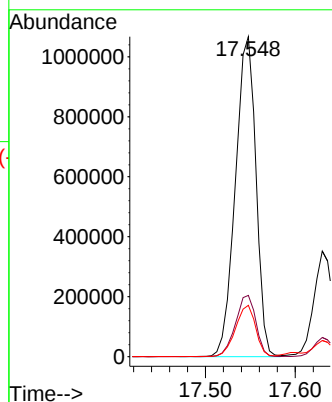
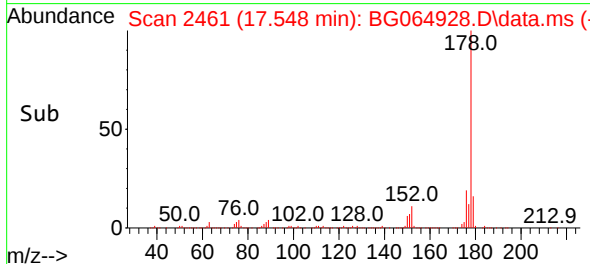
Instrument :
BNA_G
ClientSampleId :
OR-02-120825



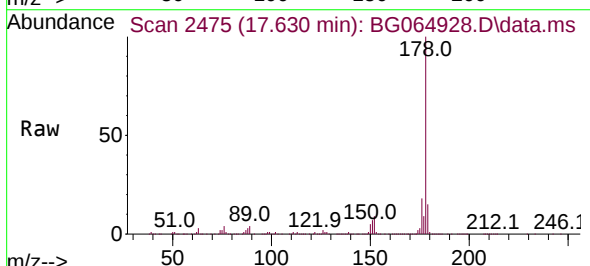
Tgt Ion:178 Resp: 1702240
Ion Ratio Lower Upper
178 100
176 19.1 14.8 22.2
179 16.0 12.2 18.4

Manual Integrations
APPROVED

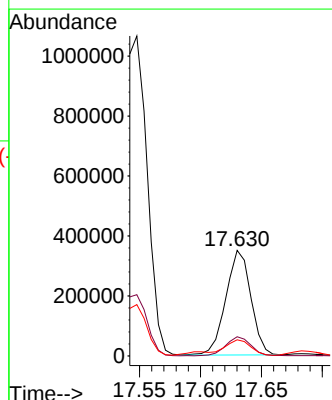
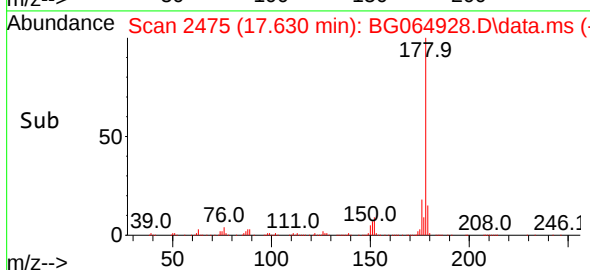
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

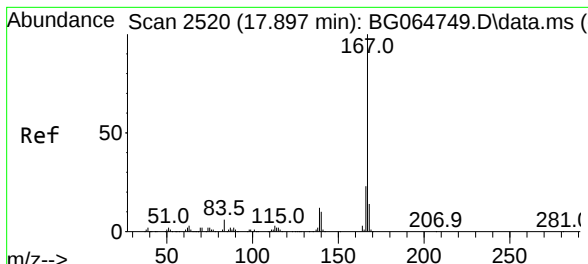


#72
Anthracene
Concen: 51.772 ng
RT: 17.630 min Scan# 2475
Delta R.T. -0.008 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54



Tgt Ion:178 Resp: 500253
Ion Ratio Lower Upper
178 100
176 18.1 14.5 21.7
179 15.3 12.2 18.4





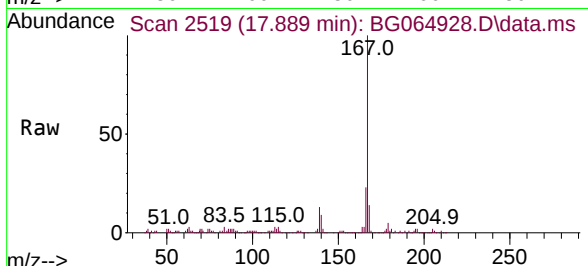
#73
 Carbazole
 Concen: 15.158 ng
 RT: 17.889 min Scan# 2519
 Delta R.T. -0.008 min
 Lab File: BG064928.D
 Acq: 10 Dec 2025 19:54

Instrument :

BNA_G

ClientSampleId :

OR-02-120825

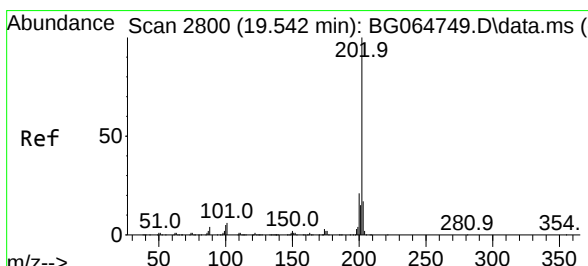
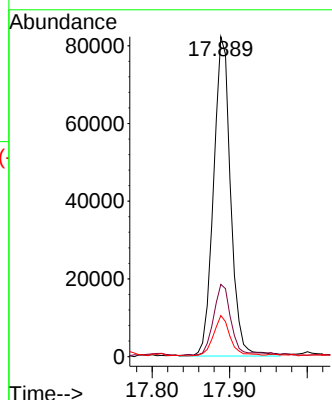
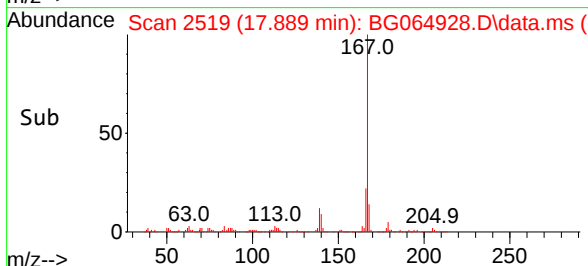


Tgt Ion:	167	Resp:	125909
Ion Ratio	Lower	Upper	
167	100		
166	22.6	18.0	27.0
139	12.8	9.7	14.5

Manual Integrations

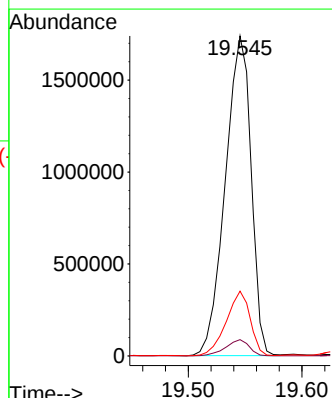
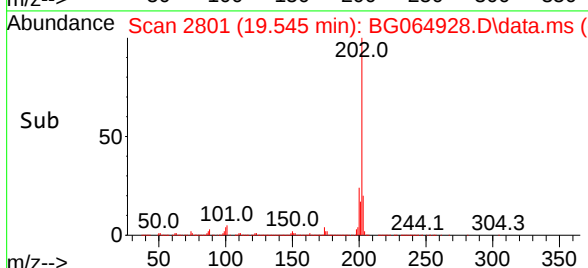
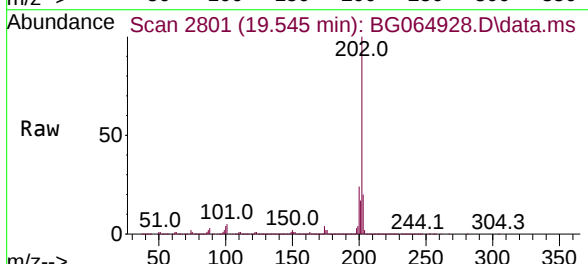
APPROVED

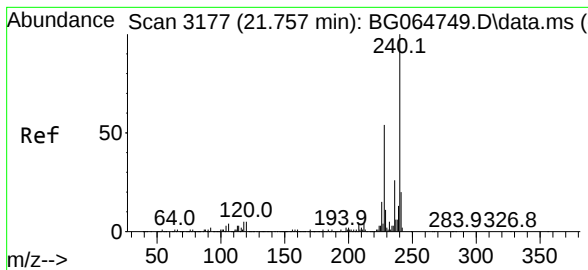
Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025



#75
 Fluoranthene
 Concen: 212.070 ng
 RT: 19.545 min Scan# 2801
 Delta R.T. 0.003 min
 Lab File: BG064928.D
 Acq: 10 Dec 2025 19:54

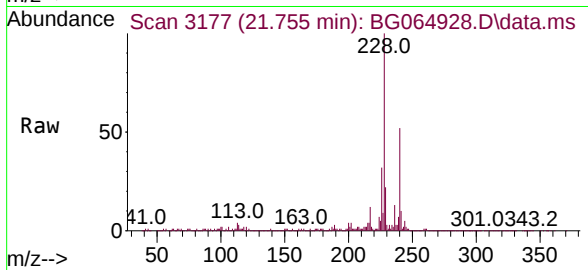
Tgt Ion:	202	Resp:	2748041
Ion Ratio	Lower	Upper	
202	100		
101	5.1	0.0	26.4
203	20.2	0.0	37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.755 min Scan# 3177
Delta R.T. -0.003 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

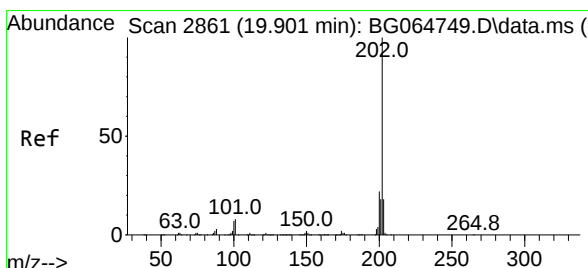
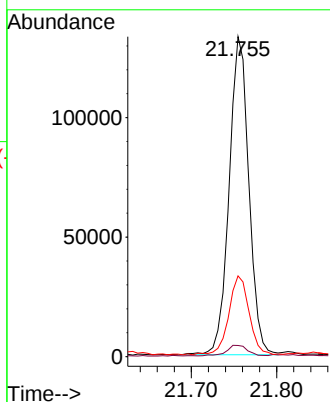
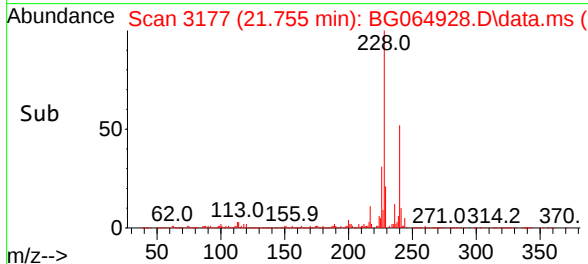
Instrument :
BNA_G
ClientSampleId :
OR-02-120825



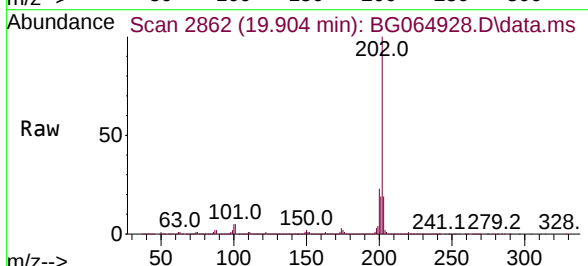
Tgt Ion:240 Resp: 213755
Ion Ratio Lower Upper
240 100
120 3.5 4.2 6.4
236 25.3 20.8 31.2

Manual Integrations
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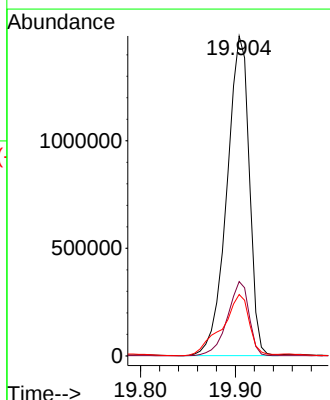
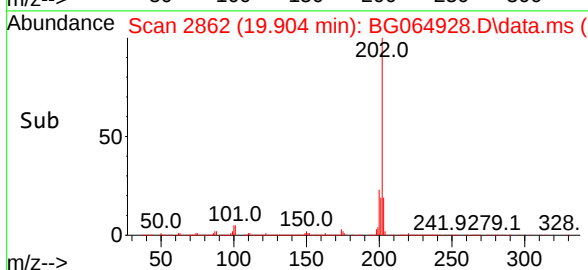
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

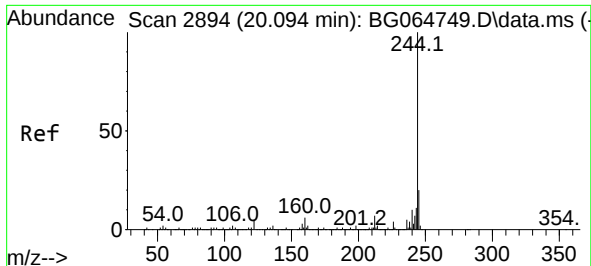


#78
Pyrene
Concen: 203.563 ng
RT: 19.904 min Scan# 2862
Delta R.T. 0.003 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54



Tgt Ion:202 Resp: 2438702
Ion Ratio Lower Upper
202 100
200 23.2 17.9 26.9
203 19.2 14.0 21.0





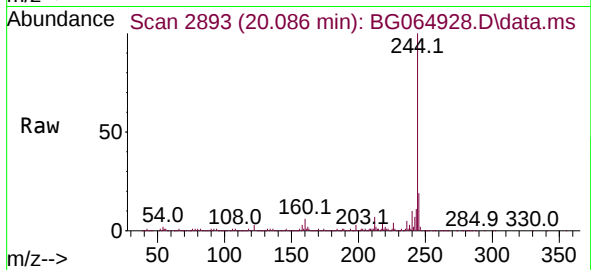
#79
 Terphenyl-d14
 Concen: 54.700 ng
 RT: 20.086 min Scan# 2894
 Delta R.T. -0.008 min
 Lab File: BG064928.D
 Acq: 10 Dec 2025 19:54

Instrument :

BNA_G

ClientSampleId :

OR-02-120825

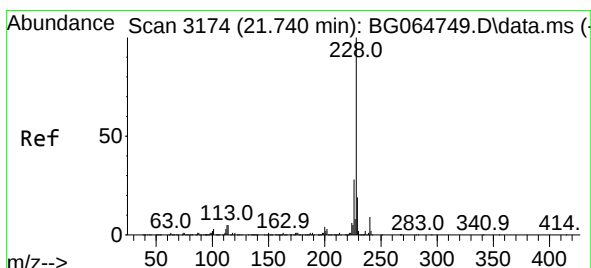
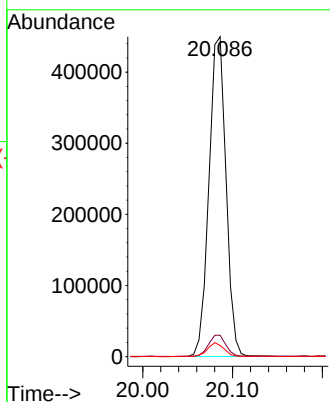
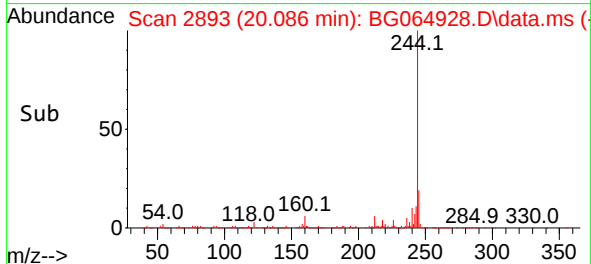


Tgt Ion:244 Resp: 594400
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.8 8.6
 122 3.5 4.3 6.5

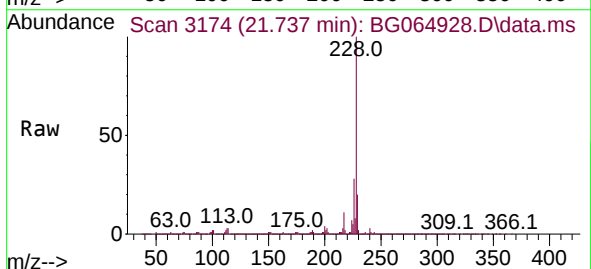
Manual Integrations

APPROVED

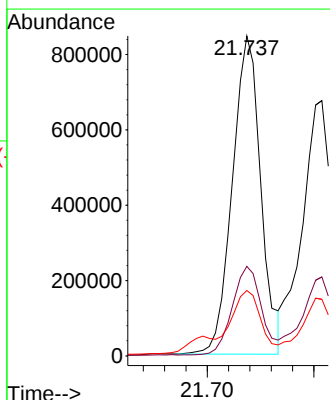
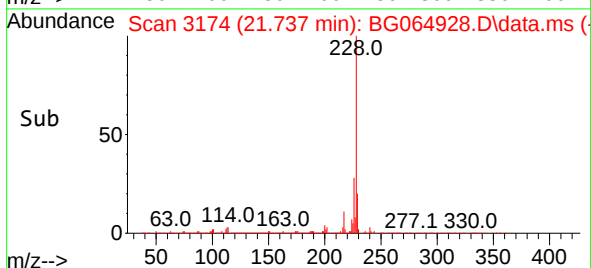
Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025

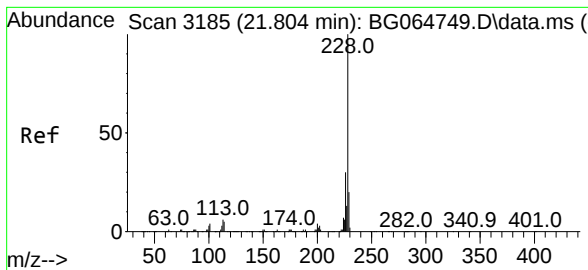


#81
 Benzo(a)anthracene
 Concen: 107.426 ng
 RT: 21.737 min Scan# 3174
 Delta R.T. -0.003 min
 Lab File: BG064928.D
 Acq: 10 Dec 2025 19:54



Tgt Ion:228 Resp: 1561383
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.1 33.1
 229 20.4 15.5 23.3





#83

Chrysene

Concen: 94.732 ng

RT: 21.808 min Scan# 3185

Delta R.T. 0.003 min

Lab File: BG064928.D

Acq: 10 Dec 2025 19:54

Instrument :

BNA_G

ClientSampleId :

OR-02-120825

Tgt Ion:228 Resp: 129810

Ion Ratio Lower Upper

228 100

226 31.0 24.2 36.2

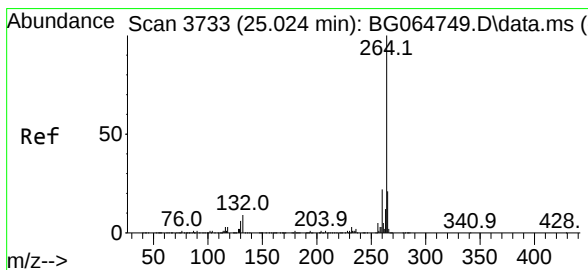
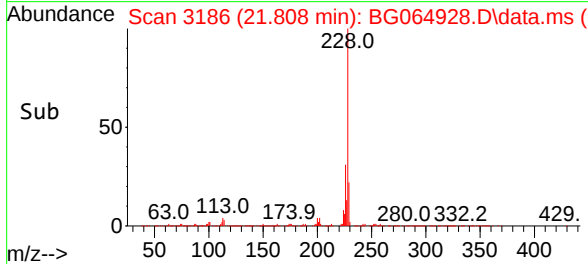
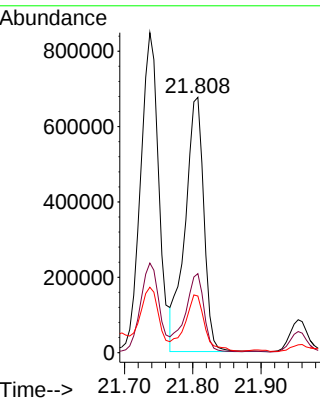
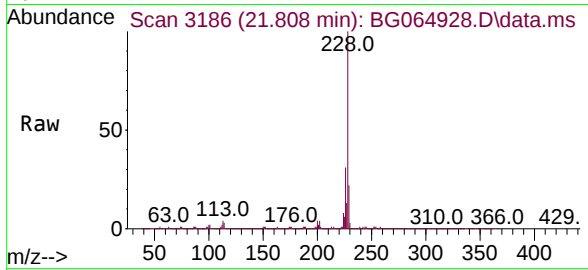
229 22.1 16.0 24.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/11/2025

Supervised By :Sohil Jodhani 12/12/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.027 min Scan# 3734

Delta R.T. 0.003 min

Lab File: BG064928.D

Acq: 10 Dec 2025 19:54

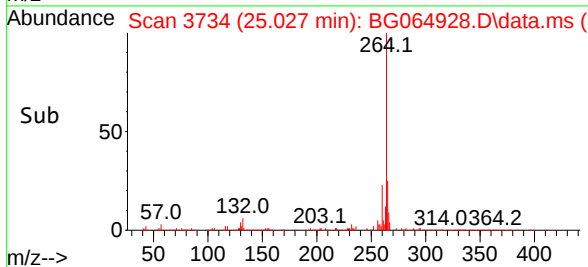
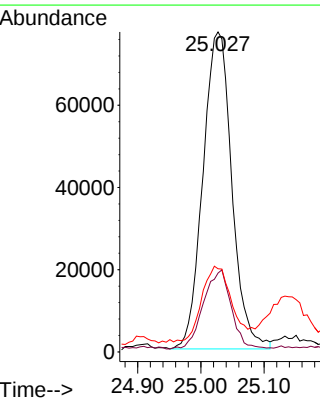
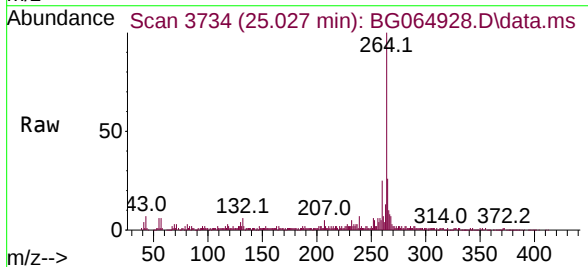
Tgt Ion:264 Resp: 245409

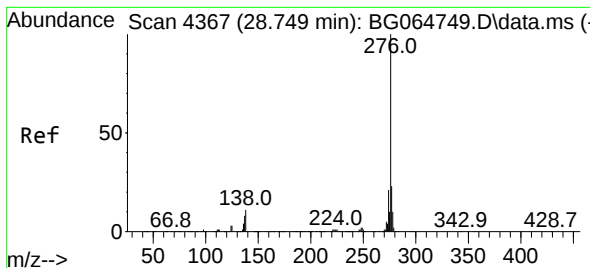
Ion Ratio Lower Upper

264 100

260 24.6 17.2 25.8

265 26.0 16.6 25.0#





#87

Indeno(1,2,3-cd)pyrene

Concen: 48.748 ng

RT: 28.776 min Scan# 4367

Delta R.T. 0.027 min

Lab File: BG064928.D

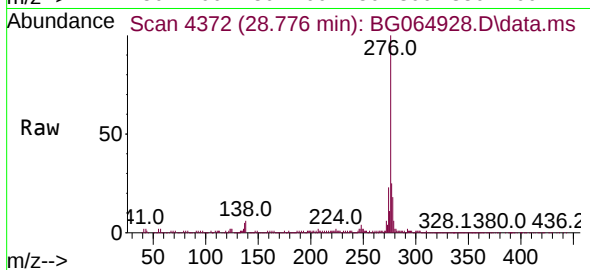
Acq: 10 Dec 2025 19:54

Instrument :

BNA_G

ClientSampleId :

OR-02-120825



Tgt Ion:276 Resp: 82191

Ion Ratio Lower Upper

276 100

138 3.2 4.5 6.7

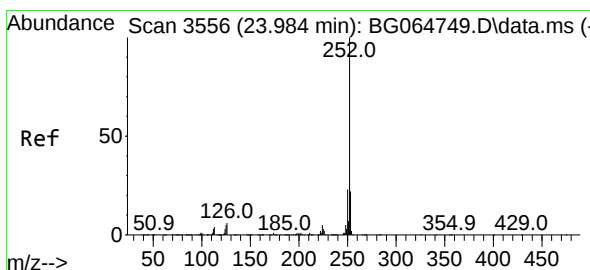
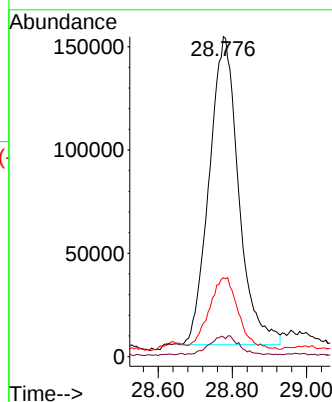
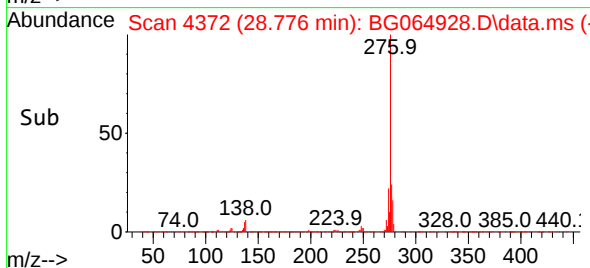
277 23.3 20.0 30.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/11/2025

Supervised By :Sohil Jodhani 12/12/2025



#88

Benzo(b)fluoranthene

Concen: 114.936 ng

RT: 23.999 min Scan# 3559

Delta R.T. 0.015 min

Lab File: BG064928.D

Acq: 10 Dec 2025 19:54

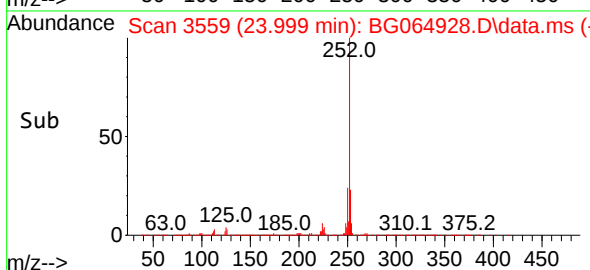
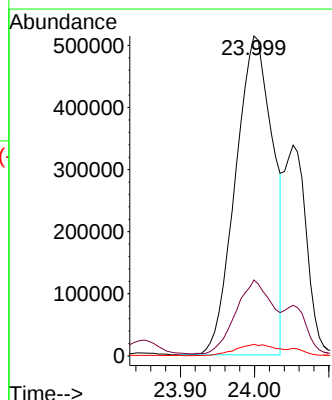
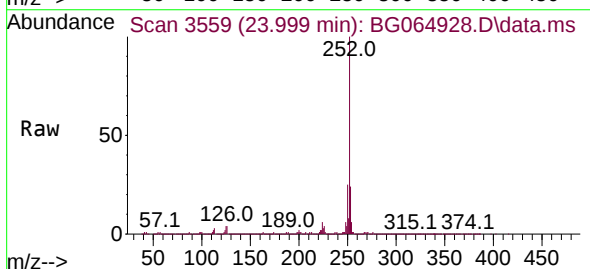
Tgt Ion:252 Resp: 1795008

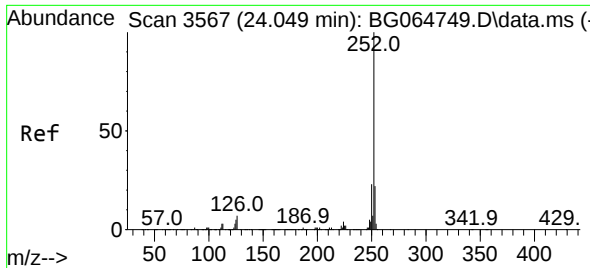
Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.2

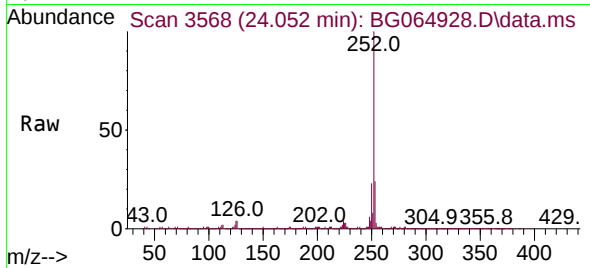
125 3.6 4.2 6.2





#89
Benzo(k)fluoranthene
Concen: 44.504 ng m
RT: 24.052 min Scan# 3567
Delta R.T. 0.003 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54

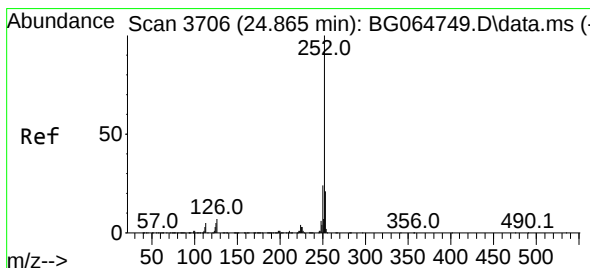
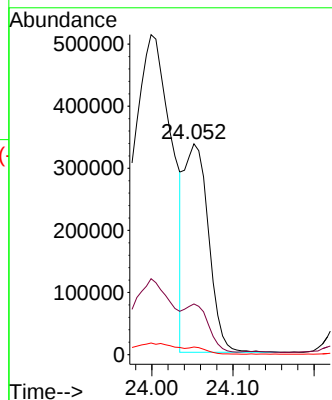
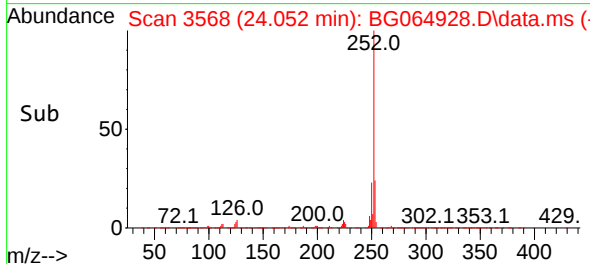
Instrument :
BNA_G
ClientSampleId :
OR-02-120825



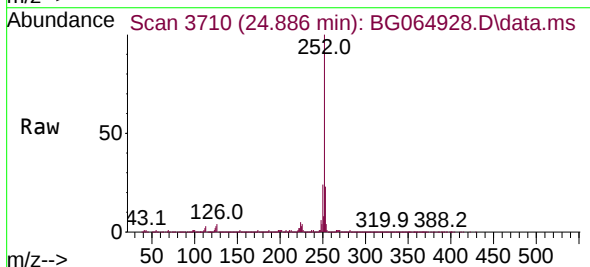
Tgt Ion:252 Resp: 698268
Ion Ratio Lower Upper
252 100
253 24.0 17.8 26.8
125 3.6 4.1 6.1

Manual Integrations
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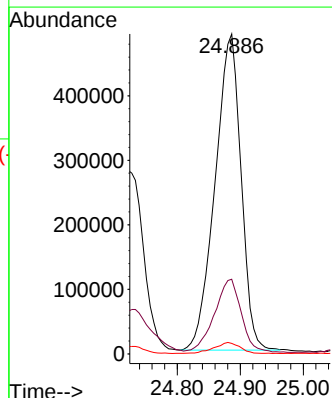
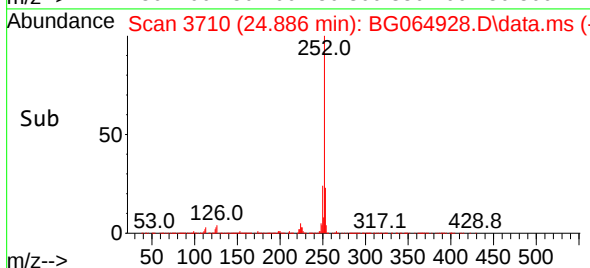
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

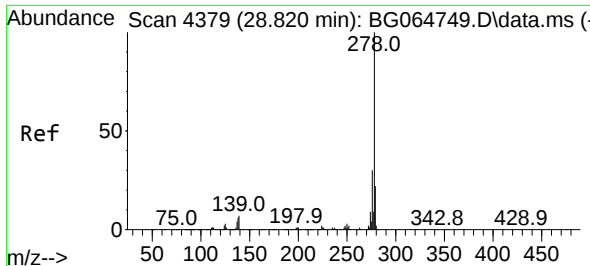


#90
Benzo(a)pyrene
Concen: 96.721 ng m
RT: 24.886 min Scan# 3710
Delta R.T. 0.021 min
Lab File: BG064928.D
Acq: 10 Dec 2025 19:54



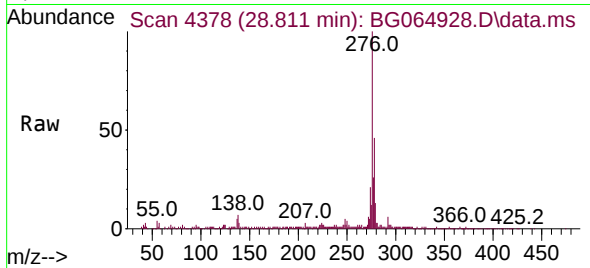
Tgt Ion:252 Resp: 1401221
Ion Ratio Lower Upper
252 100
253 23.4 16.9 25.3
125 3.3 4.2 6.4





#91
 Dibenzo(a,h)anthracene
 Concen: 13.752 ng
 RT: 28.811 min Scan# 4379
 Delta R.T. -0.008 min
 Lab File: BG064928.D
 Acq: 10 Dec 2025 19:54

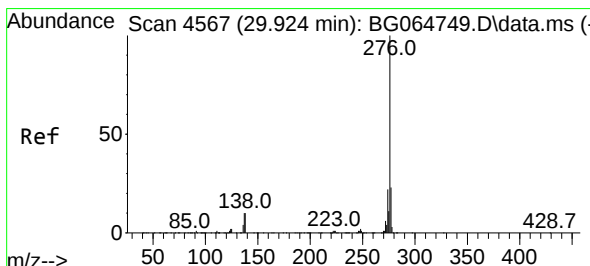
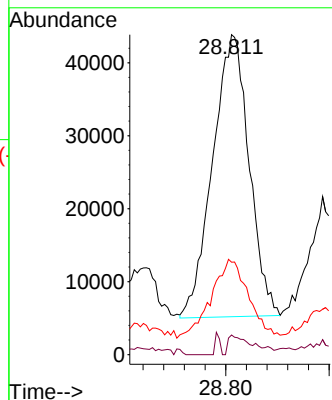
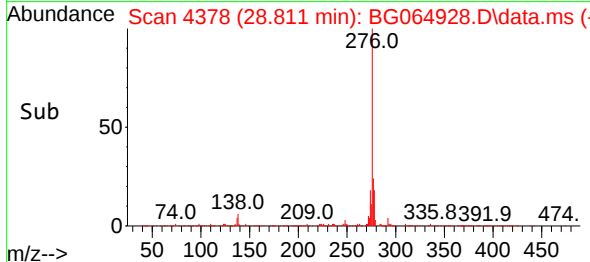
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-120825



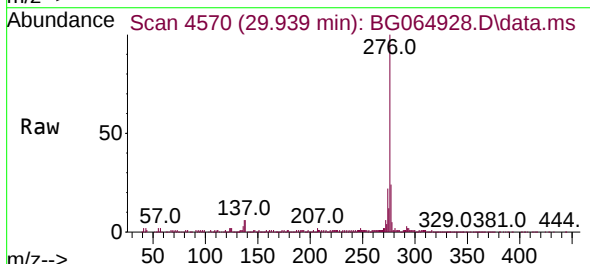
Tgt Ion:278 Resp: 18995
 Ion Ratio Lower Upper
 278 100
 139 6.1 5.8 8.8
 279 28.9 17.3 25.9

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025



#92
 Benzo(g,h,i)perylene
 Concen: 57.856 ng
 RT: 29.939 min Scan# 4570
 Delta R.T. 0.015 min
 Lab File: BG064928.D
 Acq: 10 Dec 2025 19:54



Tgt Ion:276 Resp: 769085
 Ion Ratio Lower Upper
 276 100
 277 23.6 18.0 27.0
 138 6.1 8.2 12.2

