

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121025\
 Data File : BG064929.D
 Acq On : 10 Dec 2025 20:35
 Operator : RC/JU
 Sample : Q3812-01DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/11/2025

Supervised By :Sohil Jodhani 12/12/2025

Quant Time: Dec 10 23:37:35 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	8.158	152	26007	20.000	ng	0.00
21) Naphthalene-d8	10.973	136	102193	20.000	ng	#-0.01
39) Acenaphthene-d10	14.768	164	87995	20.000	ng	0.00
64) Phenanthrene-d10	17.500	188	197589	20.000	ng	# 0.00
76) Chrysene-d12	21.754	240	237301	20.000	ng	# 0.00
86) Perylene-d12	25.021	264	276334	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.697	112	18801	12.624	ng	0.00
7) Phenol-d6	7.301	99	23597	11.912	ng	0.00
23) Nitrobenzene-d5	9.316	82	16130	7.804	ng	-0.01
42) 2,4,6-Tribromophenol	16.243	330	26569	15.482	ng	0.00
45) 2-Fluorobiphenyl	13.399	172	57889	9.179	ng	0.00
79) Terphenyl-d14	20.086	244	122771	10.177	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	14.833	154	11847	2.323	ng	92
55) Dibenzofuran	15.162	168	19710	2.338	ng	# 97
58) Fluorene	15.808	166	26614	4.024	ng	100
71) Phenanthrene	17.541	178	371227	34.339	ng	99
72) Anthracene	17.636	178	105581	9.578	ng	99
73) Carbazole	17.894	167	27377	2.889	ng	97
75) Fluoranthene	19.539	202	617185	41.749	ng	98
78) Pyrene	19.898	202	527012	39.626	ng	99
81) Benzo(a)anthracene	21.731	228	331046	20.517	ng	97
83) Chrysene	21.795	228	274403	18.038	ng	97
87) Indeno(1,2,3-cd)pyrene	28.746	276	172835	9.104	ng	# 95
88) Benzo(b)fluoranthene	23.981	252	406029	23.089	ng	# 99
89) Benzo(k)fluoranthene	24.040	252	119860m	6.784	ng	
90) Benzo(a)pyrene	24.868	252	305573m	18.732	ng	
91) Dibenzo(a,h)anthracene	28.793	278	42352	2.723	ng	# 80
92) Benzo(g,h,i)perylene	29.915	276	167155	11.167	ng	# 97

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

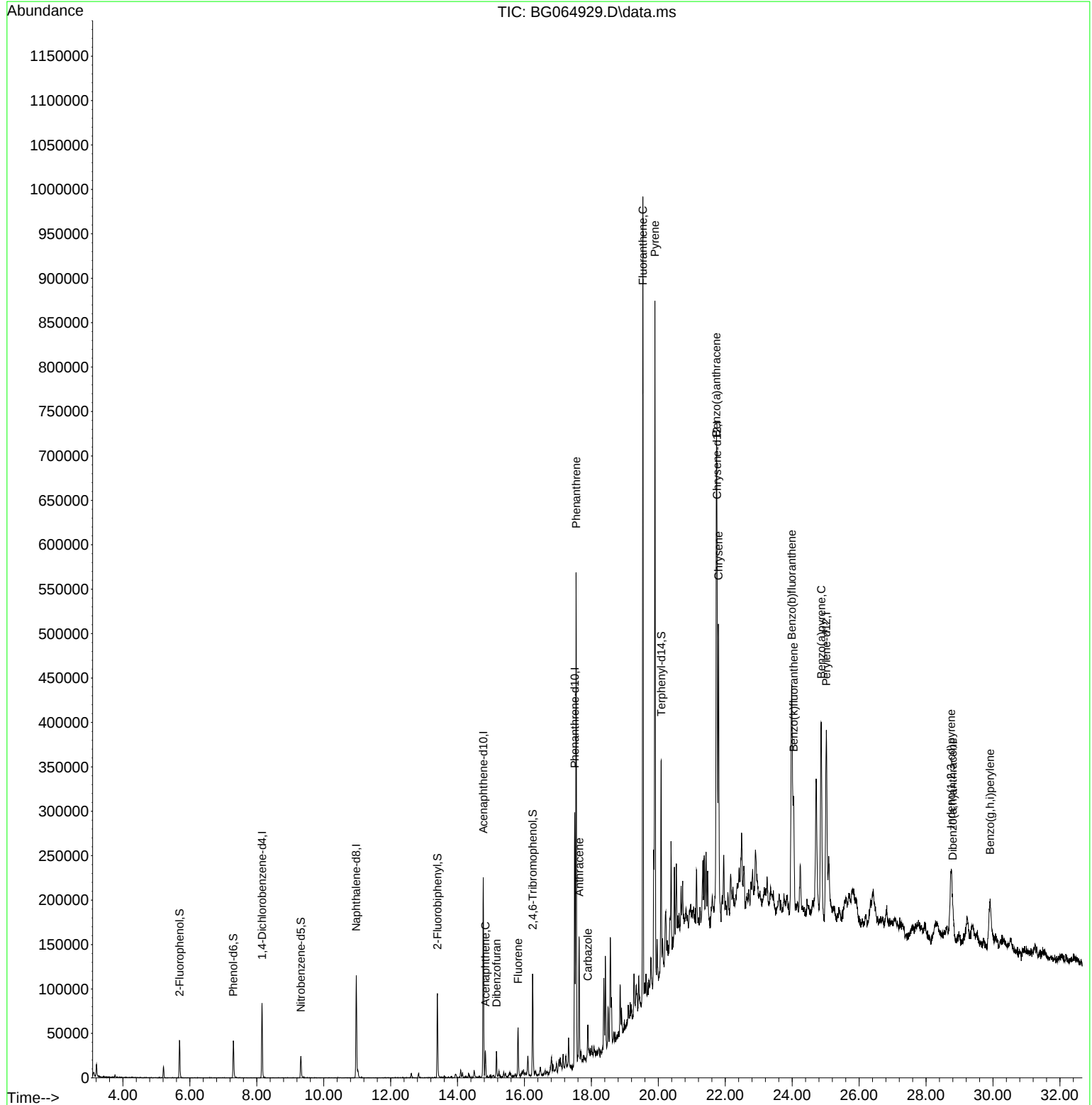
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121025\
Data File : BG064929.D
Acq On : 10 Dec 2025 20:35
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Sample : Q3812-01DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

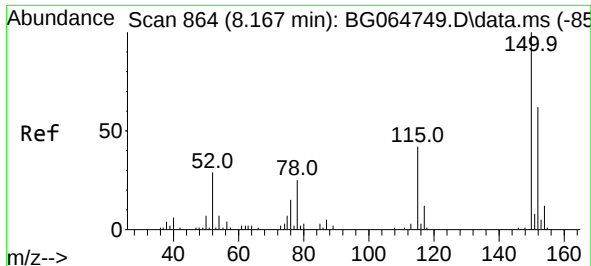
Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

Quant Time: Dec 10 23:37:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

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





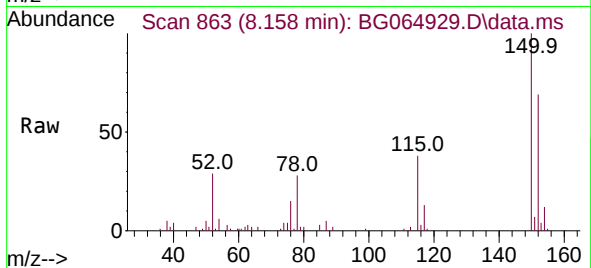
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.158 min Scan# 864
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

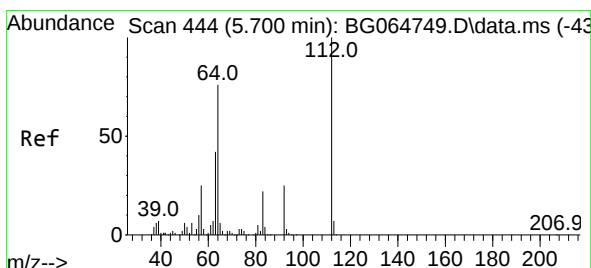
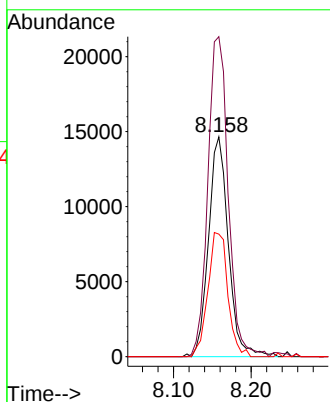
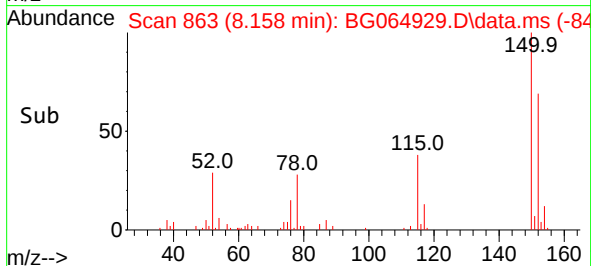


Tgt Ion:152 Resp: 2600
Ion Ratio Lower Upper
152 100
150 145.6 129.2 193.8
115 55.7 53.7 80.5

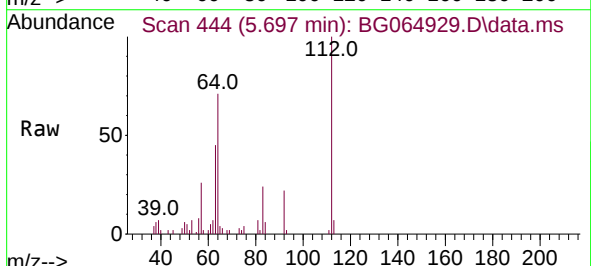
Manual Integrations

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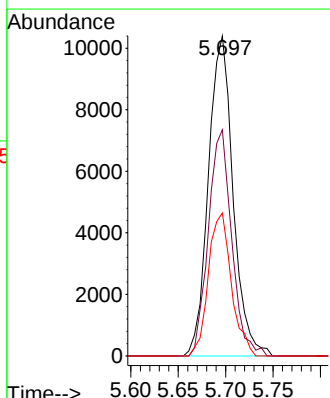
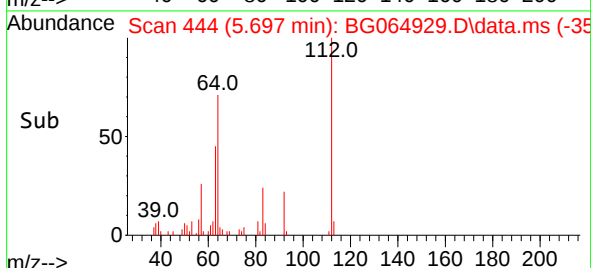
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

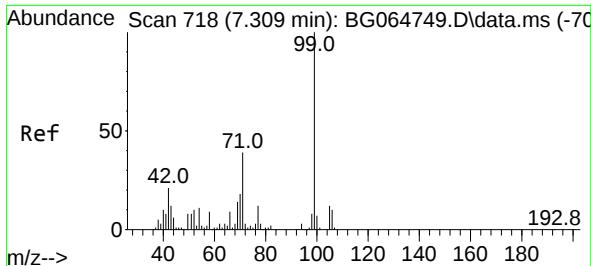


#5
2-Fluorophenol
Concen: 12.624 ng
RT: 5.697 min Scan# 444
Delta R.T. -0.003 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35



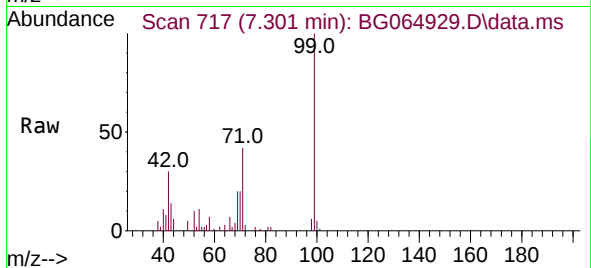
Tgt Ion:112 Resp: 18801
Ion Ratio Lower Upper
112 100
64 70.7 61.0 91.4
63 44.7 33.3 49.9





#7
Phenol-d6
Concen: 11.912 ng
RT: 7.301 min Scan# 71
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

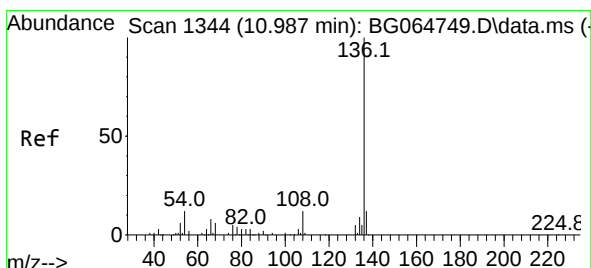
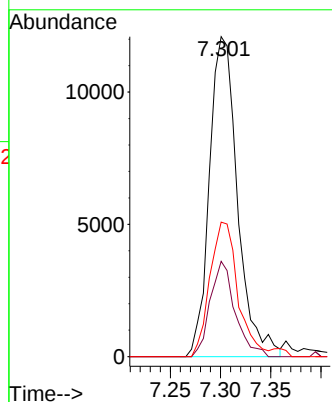
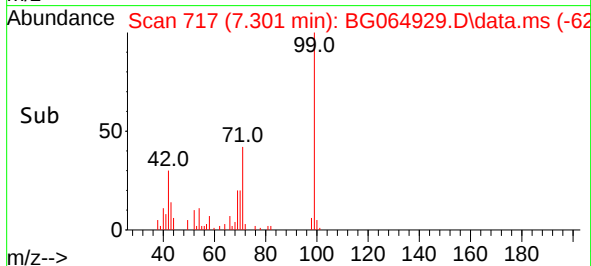
Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL



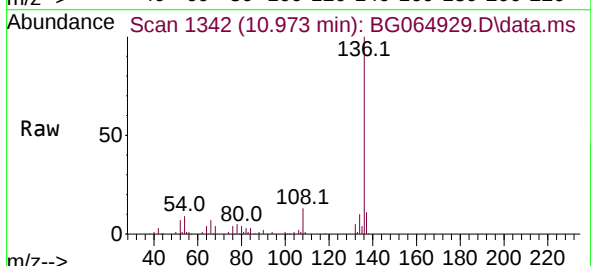
Tgt Ion: 99 Resp: 2359
Ion Ratio Lower Upper
99 100
42 29.8 16.8 25.2
71 42.0 31.1 46.7

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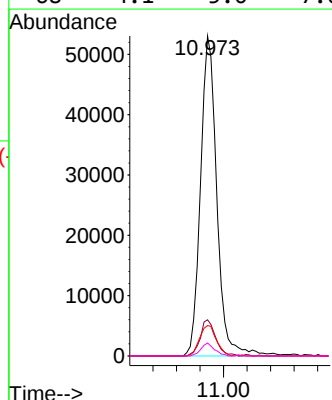
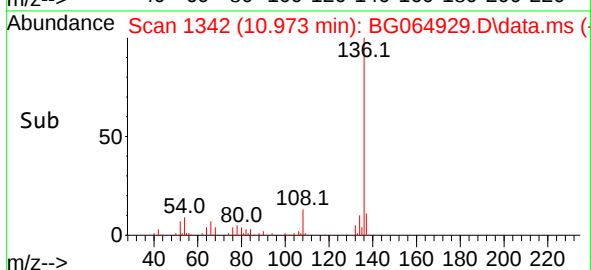
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.973 min Scan# 1342
Delta R.T. -0.014 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35



Tgt Ion:136 Resp: 102193
Ion Ratio Lower Upper
136 100
137 11.3 9.3 13.9
54 9.5 9.3 13.9
68 4.1 5.0 7.6





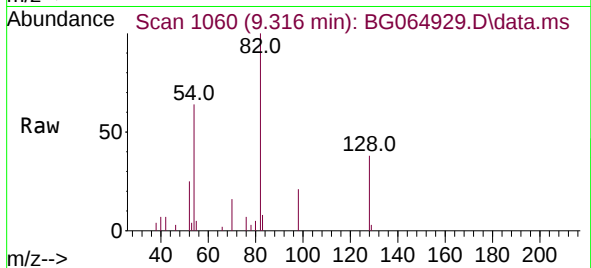
#23
Nitrobenzene-d5
Concen: 7.804 ng
RT: 9.316 min Scan# 1060
Delta R.T. -0.015 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

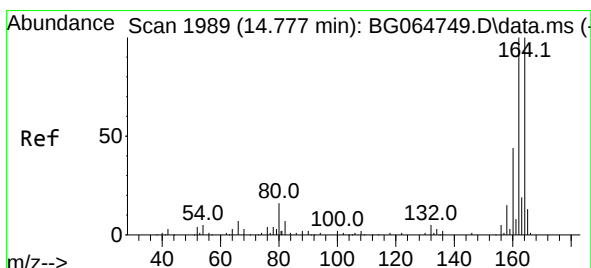
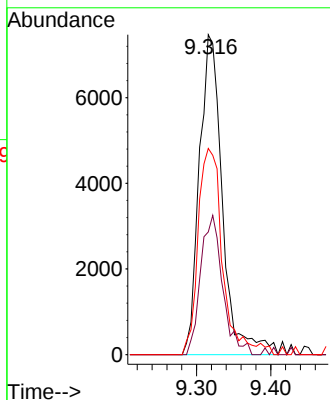
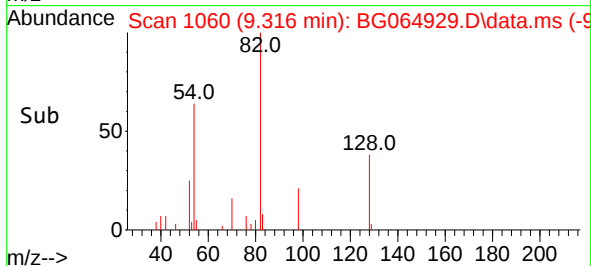
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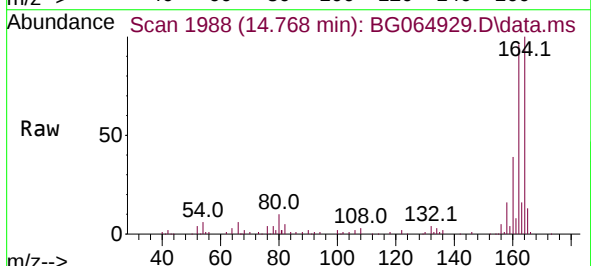
Tgt Ion: 82 Resp: 16130
Ion Ratio Lower Upper
82 100
128 38.3 34.1 51.1
54 64.4 54.3 81.5

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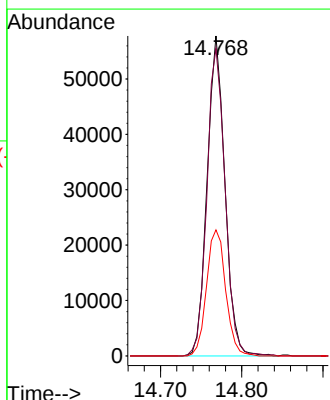
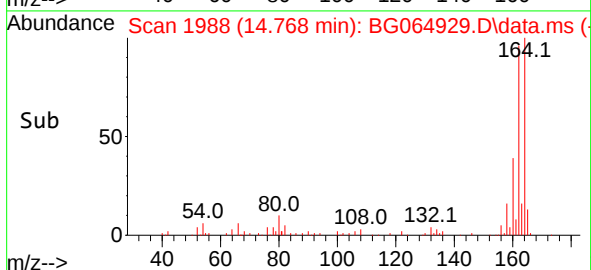
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

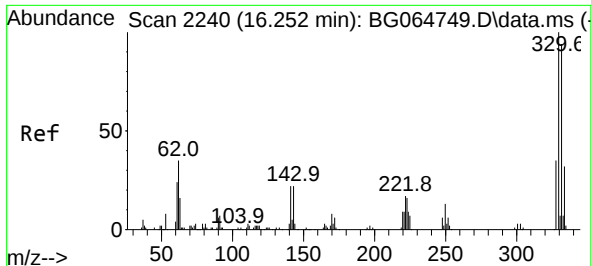


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.768 min Scan# 1988
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35



Tgt Ion:164 Resp: 87995
Ion Ratio Lower Upper
164 100
162 96.1 79.8 119.6
160 39.4 34.9 52.3





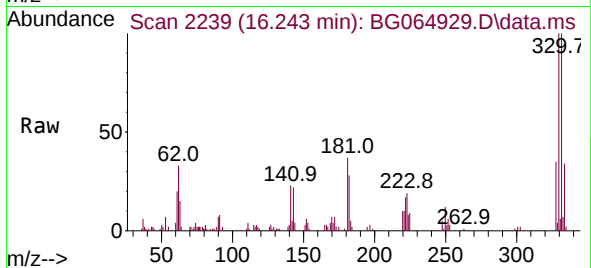
#42
2,4,6-Tribromophenol
Concen: 15.482 ng
RT: 16.243 min Scan# 2240
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

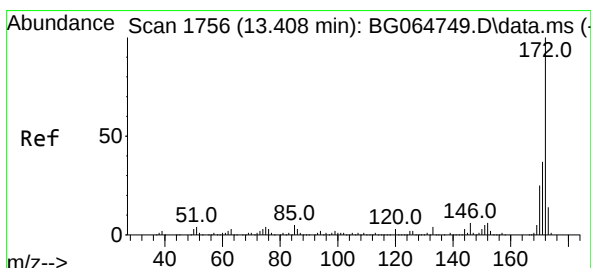
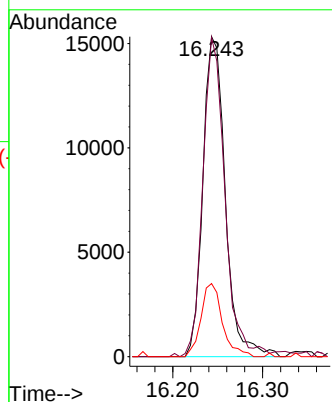
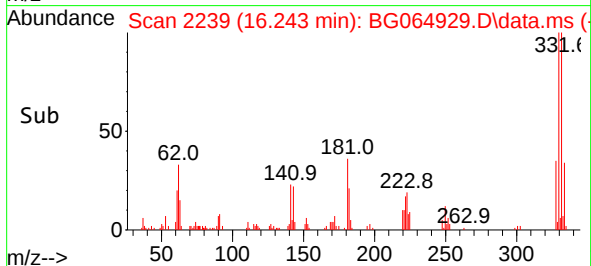


Tgt Ion:330 Resp: 26569
Ion Ratio Lower Upper
330 100
332 98.5 77.0 115.6
141 21.8 18.2 27.2

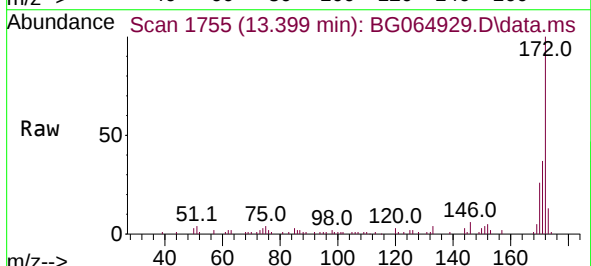
Manual Integrations

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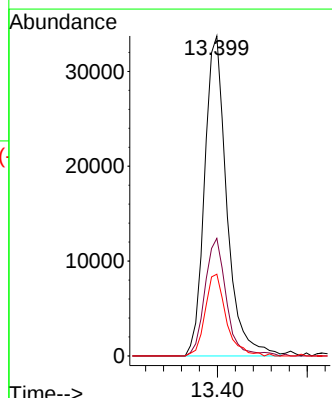
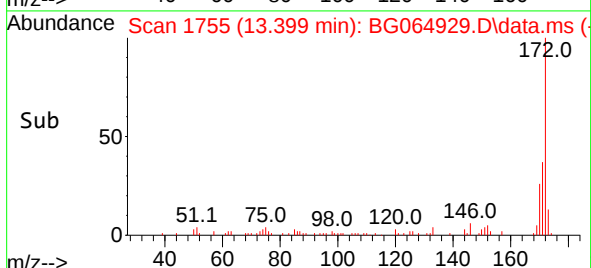
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

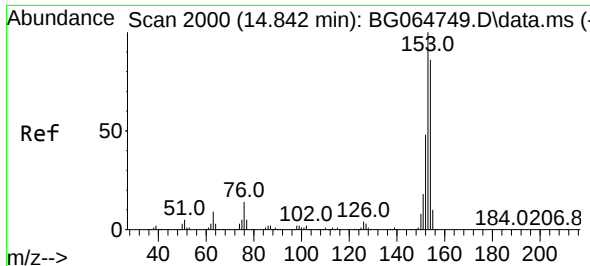


#45
2-Fluorobiphenyl
Concen: 9.179 ng
RT: 13.399 min Scan# 1755
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35



Tgt Ion:172 Resp: 57889
Ion Ratio Lower Upper
172 100
171 36.7 29.9 44.9
170 25.5 19.8 29.6





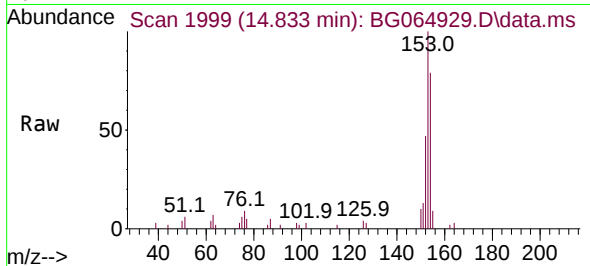
#52
Acenaphthene
Concen: 2.323 ng
RT: 14.833 min Scan# 1999
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

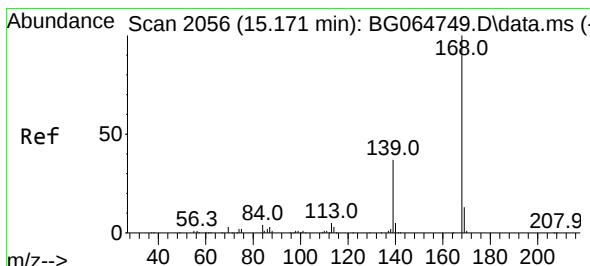
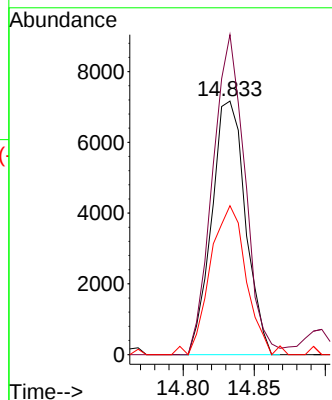
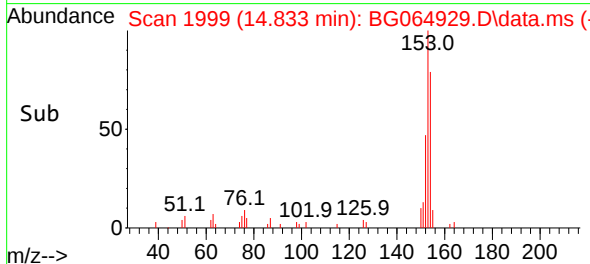


Tgt Ion:154 Resp: 1184
Ion Ratio Lower Upper
154 100
153 126.2 93.0 139.4
152 58.7 44.4 66.6

Manual Integrations

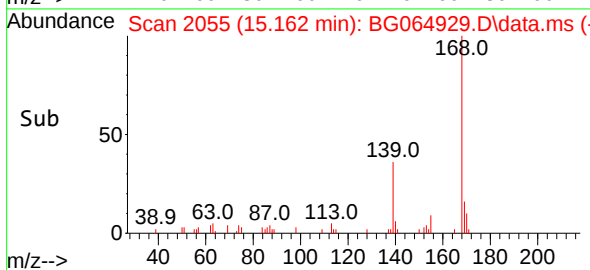
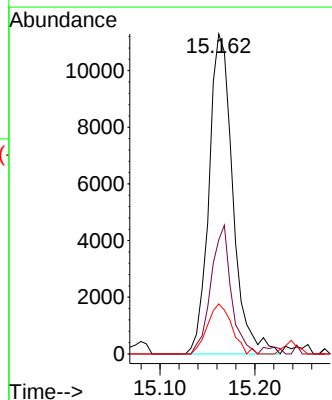
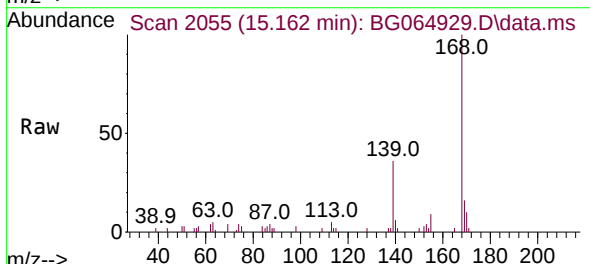
APPROVED

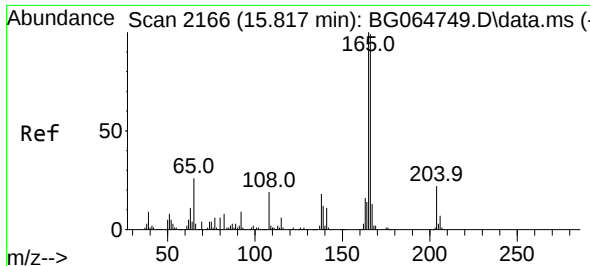
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#55
Dibenzofuran
Concen: 2.338 ng
RT: 15.162 min Scan# 2055
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

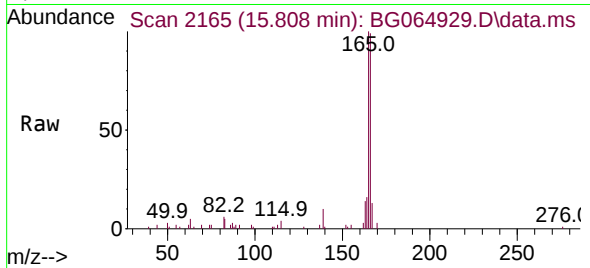
Tgt Ion:168 Resp: 19710
Ion Ratio Lower Upper
168 100
139 35.6 29.5 44.3
169 15.7 10.4 15.6#





#58
Fluorene
Concen: 4.024 ng
RT: 15.808 min Scan# 2166
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

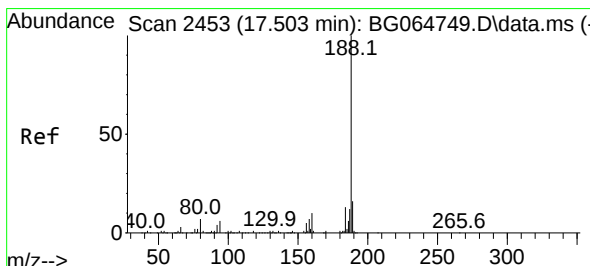
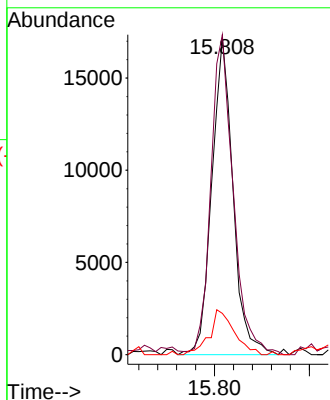
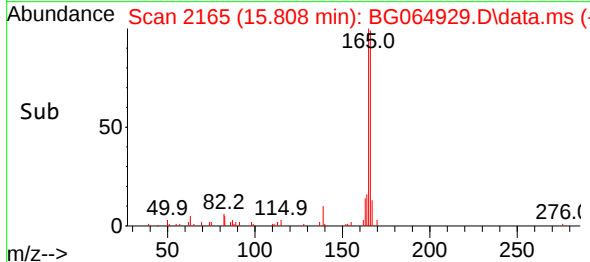
Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL



Tgt Ion:166 Resp: 26614
Ion Ratio Lower Upper
166 100
165 100.9 80.5 120.7
167 13.0 10.3 15.5

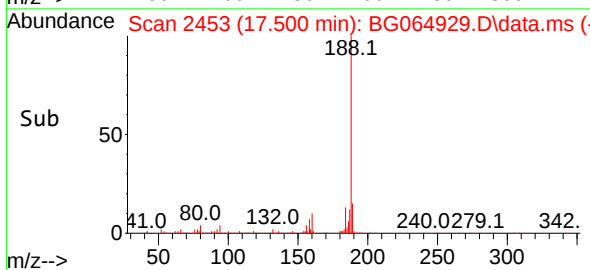
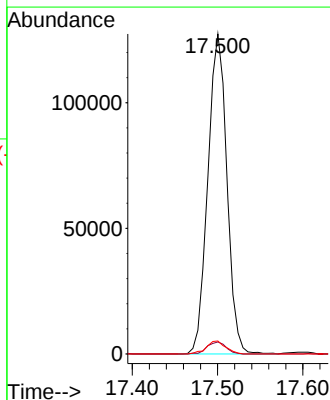
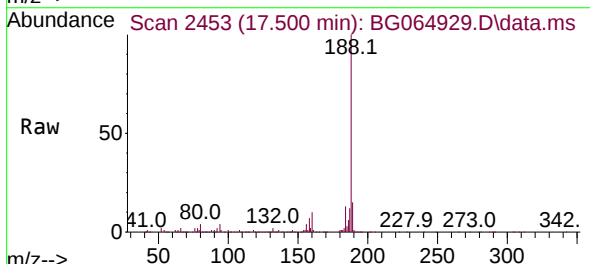
Manual Integrations
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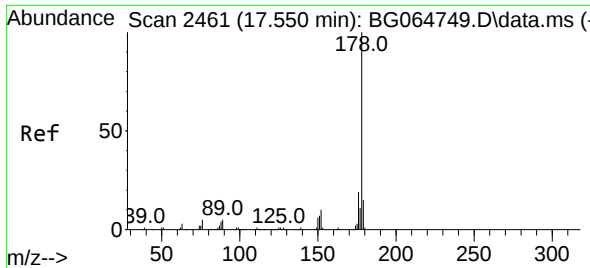
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.500 min Scan# 2453
Delta R.T. -0.003 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:188 Resp: 197589
Ion Ratio Lower Upper
188 100
94 3.7 4.7 7.1#
80 4.0 5.4 8.2#





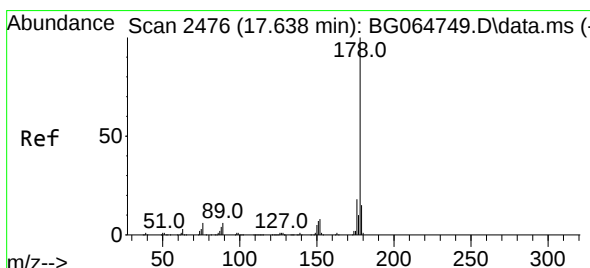
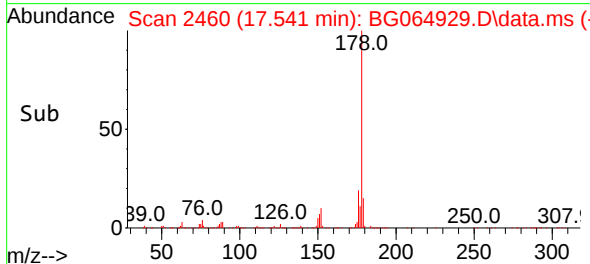
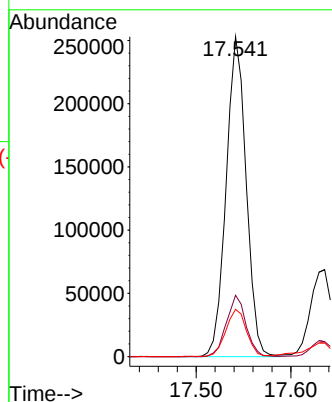
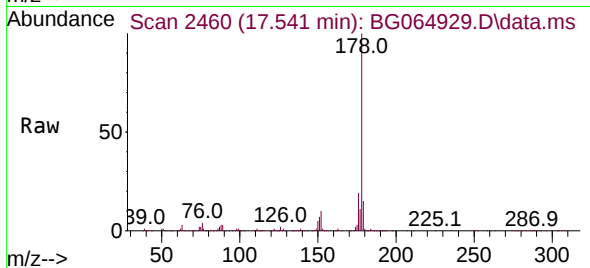
#71
Phenanthrene
Concen: 34.339 ng
RT: 17.541 min Scan# 2461
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

Tgt Ion:178 Resp: 371227
Ion Ratio Lower Upper
178 100
176 19.2 14.8 22.2
179 14.8 12.2 18.4

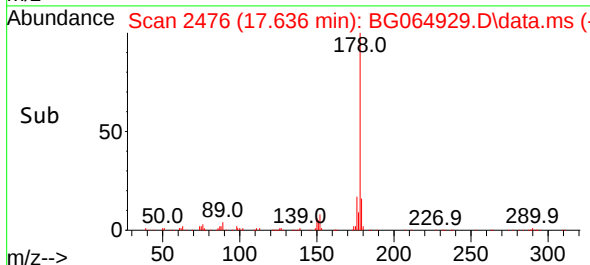
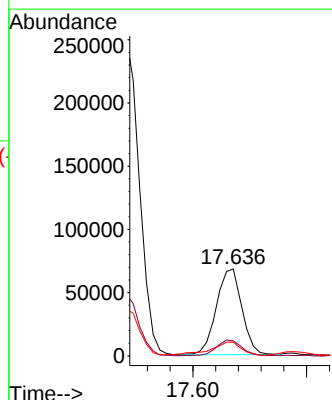
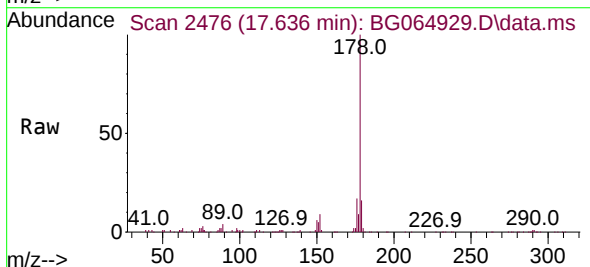
Manual Integrations
APPROVED

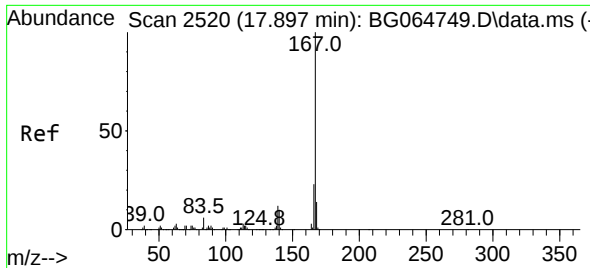
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#72
Anthracene
Concen: 9.578 ng
RT: 17.636 min Scan# 2476
Delta R.T. -0.003 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:178 Resp: 105581
Ion Ratio Lower Upper
178 100
176 17.3 14.5 21.7
179 15.7 12.2 18.4





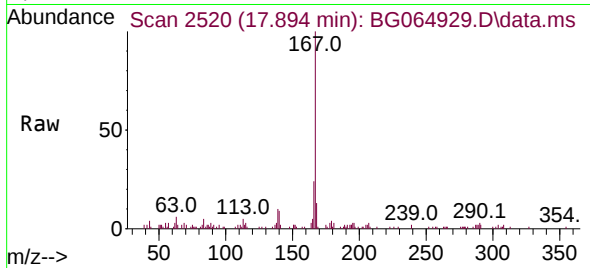
#73
 Carbazole
 Concen: 2.889 ng
 RT: 17.894 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG064929.D
 Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

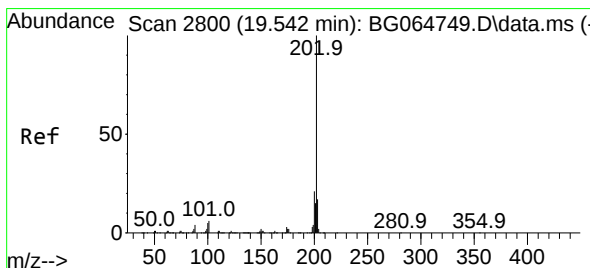
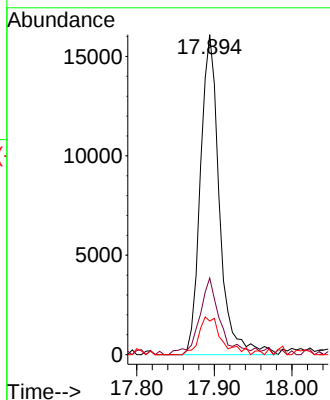
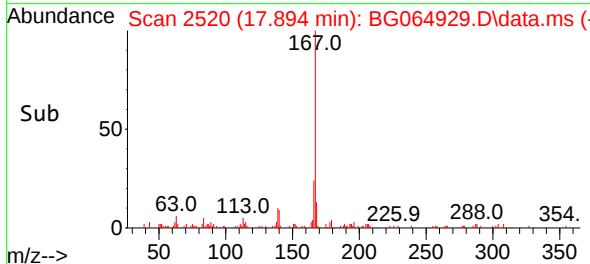


Tgt Ion:167 Resp: 2737
 Ion Ratio Lower Upper
 167 100
 166 23.9 18.0 27.0
 139 10.5 9.7 14.5

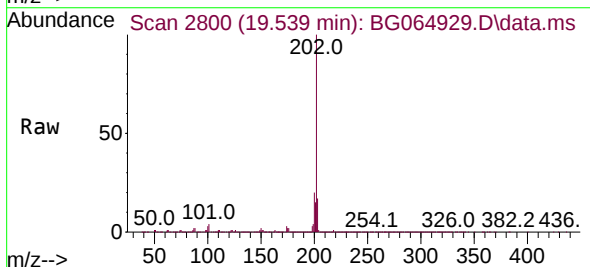
Manual Integrations

APPROVED

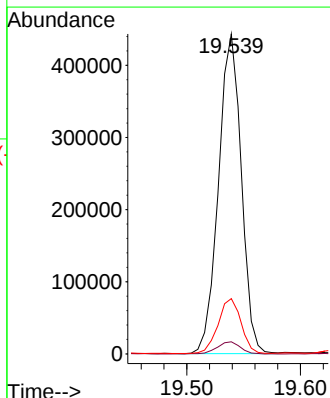
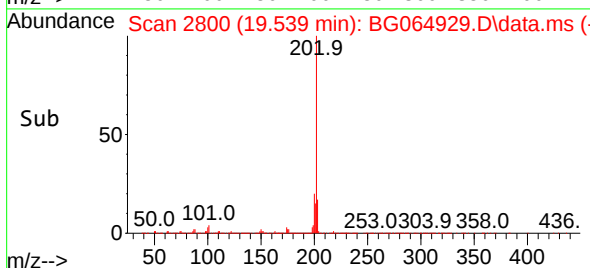
Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025

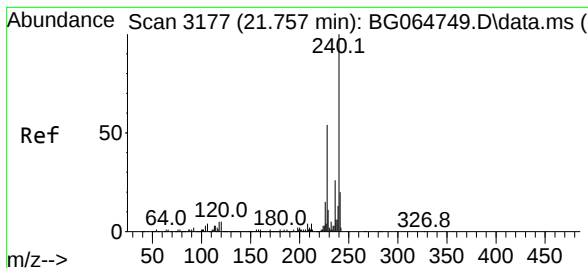


#75
 Fluoranthene
 Concen: 41.749 ng
 RT: 19.539 min Scan# 2800
 Delta R.T. -0.003 min
 Lab File: BG064929.D
 Acq: 10 Dec 2025 20:35



Tgt Ion:202 Resp: 617185
 Ion Ratio Lower Upper
 202 100
 101 3.8 0.0 26.4
 203 17.3 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.754 min Scan# 3177

Delta R.T. -0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

Tgt Ion:240 Resp: 237301

Ion Ratio Lower Upper

240 100

120 3.2 4.2 6.4

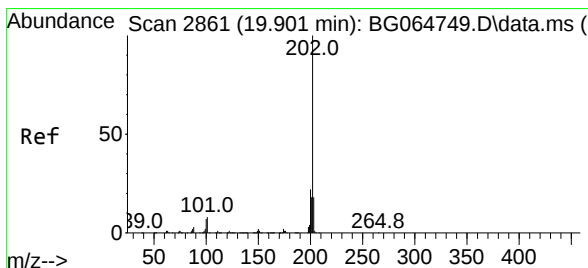
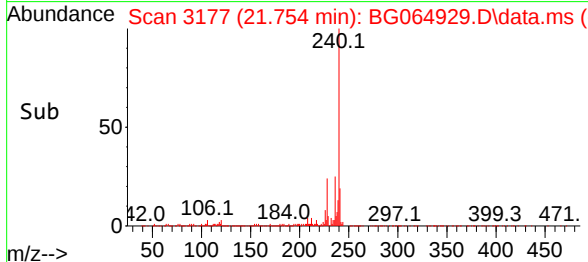
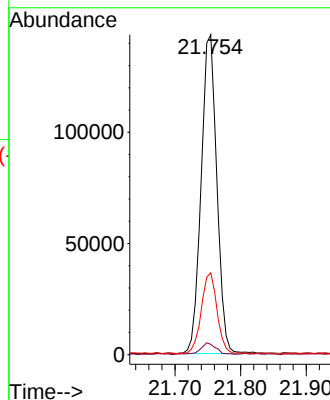
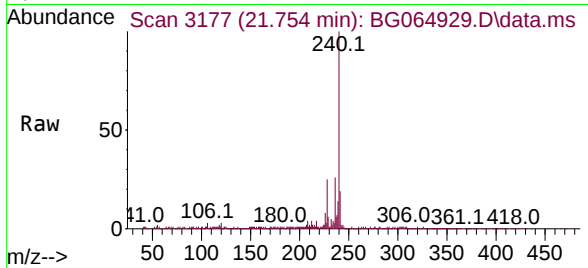
236 25.6 20.8 31.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/11/2025

Supervised By :Sohil Jodhani 12/12/2025



#78

Pyrene

Concen: 39.626 ng

RT: 19.898 min Scan# 2861

Delta R.T. -0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

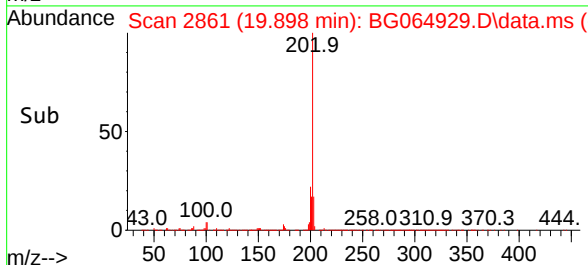
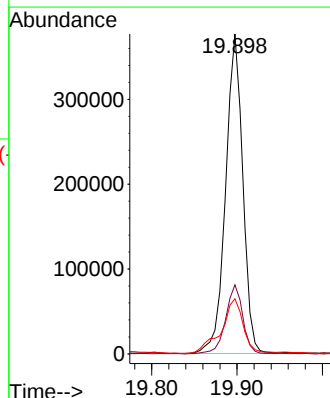
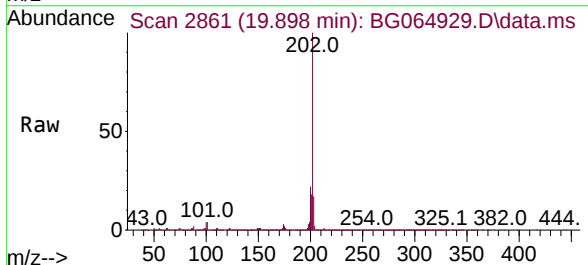
Tgt Ion:202 Resp: 527012

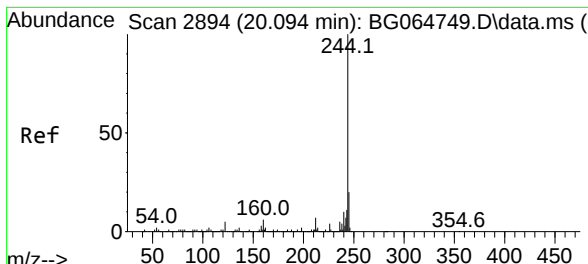
Ion Ratio Lower Upper

202 100

200 21.6 17.9 26.9

203 17.3 14.0 21.0





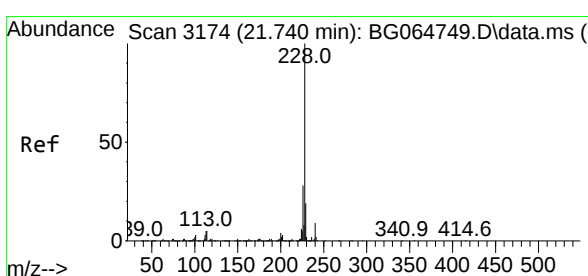
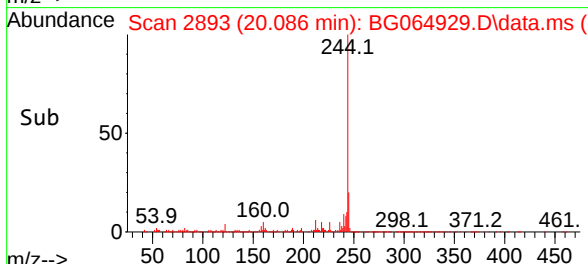
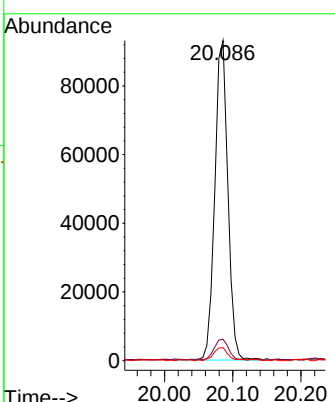
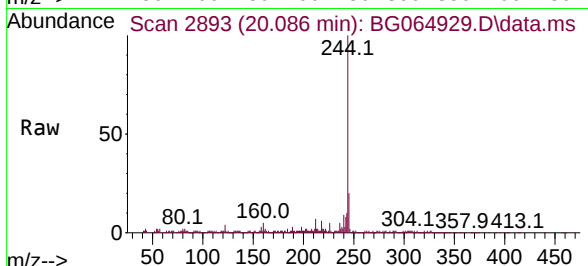
#79
 Terphenyl-d14
 Concen: 10.177 ng
 RT: 20.086 min Scan# 2893
 Delta R.T. -0.009 min
 Lab File: BG064929.D
 Acq: 10 Dec 2025 20:35

Instrument : BNA_G
 ClientSampleId : OR-02-120825DL

Tgt Ion:244 Resp: 12277

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.6
122	4.1	4.3	6.5

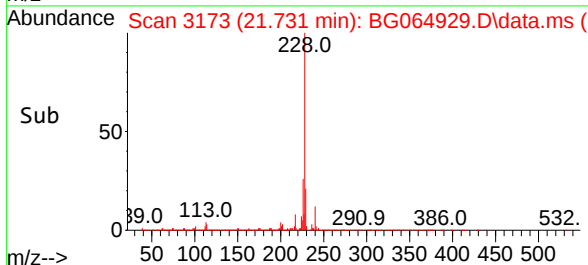
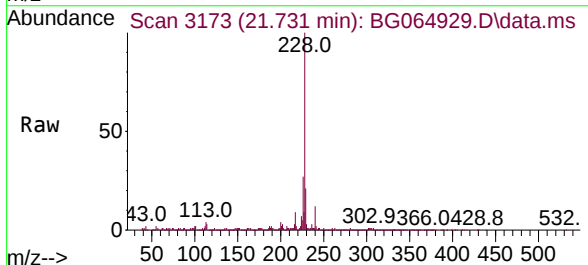
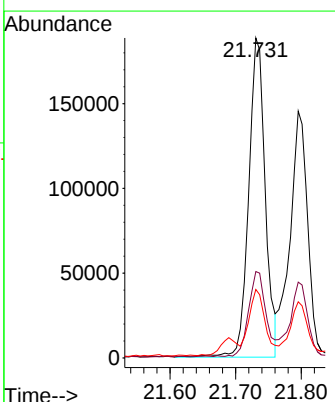
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 Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025

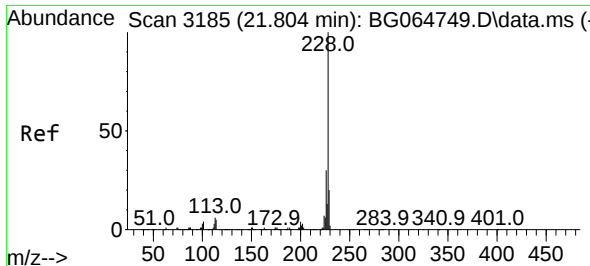


#81
 Benzo(a)anthracene
 Concen: 20.517 ng
 RT: 21.731 min Scan# 3173
 Delta R.T. -0.009 min
 Lab File: BG064929.D
 Acq: 10 Dec 2025 20:35

Tgt Ion:228 Resp: 331046

Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.1	33.1
229	21.4	15.5	23.3





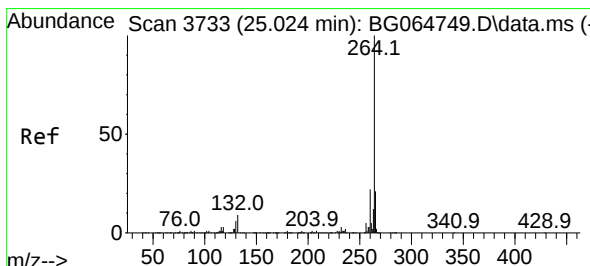
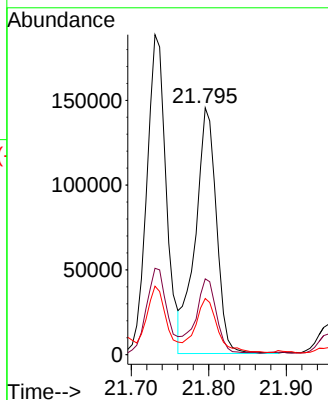
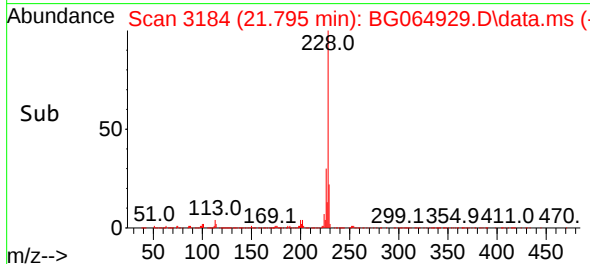
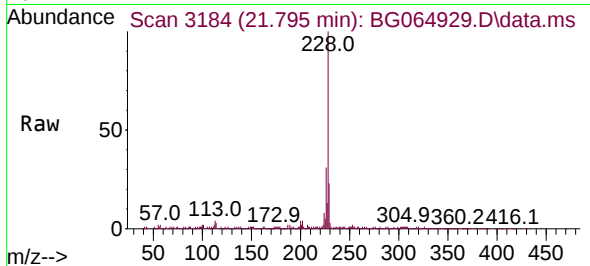
#83
Chrysene
Concen: 18.038 ng
RT: 21.795 min Scan# 3185
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :
BNA_G
ClientSampleId :
OR-02-120825DL

Tgt Ion:228 Resp: 274403
Ion Ratio Lower Upper
228 100
226 30.7 24.2 36.2
229 22.7 16.0 24.0

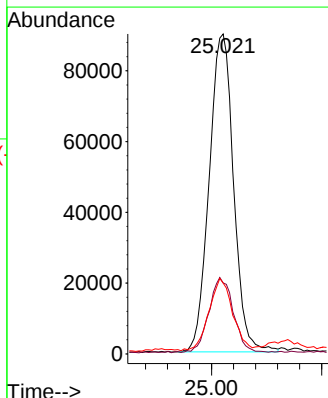
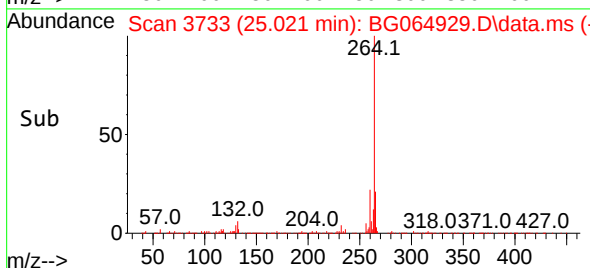
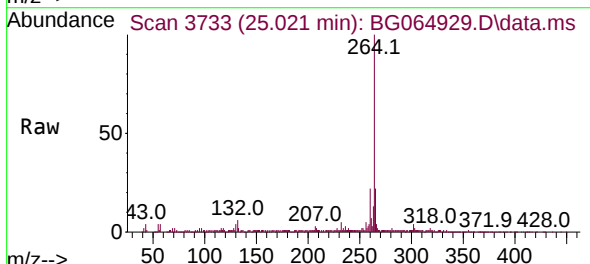
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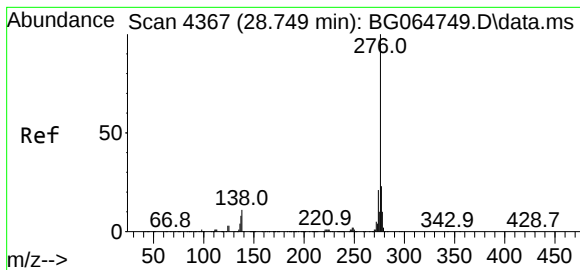
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.021 min Scan# 3733
Delta R.T. -0.003 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:264 Resp: 276334
Ion Ratio Lower Upper
264 100
260 22.2 17.2 25.8
265 22.1 16.6 25.0





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 9.104 ng
 RT: 28.746 min Scan# 4367
 Delta R.T. -0.003 min
 Lab File: BG064929.D
 Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

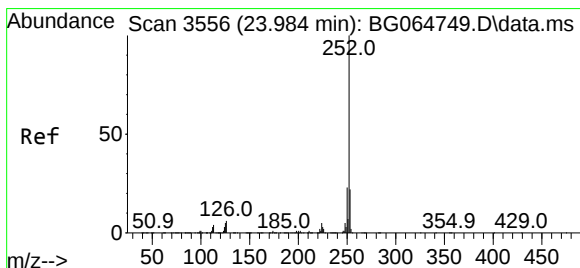
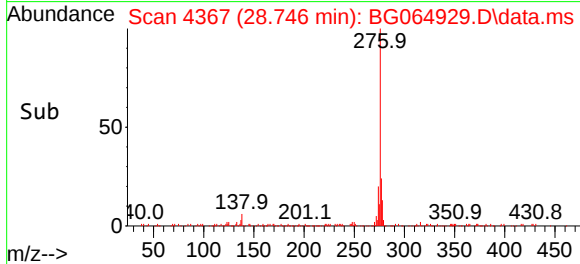
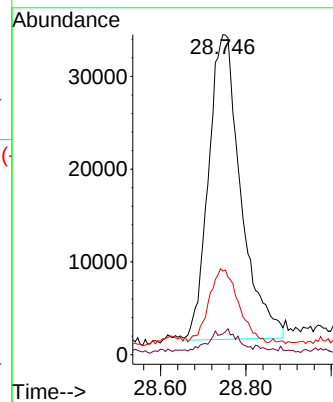
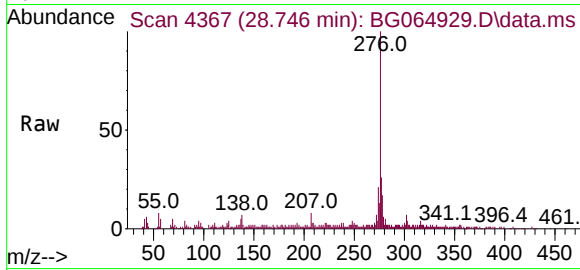
OR-02-120825DL

Tgt Ion:276 Resp: 172835
 Ion Ratio Lower Upper
 276 100
 138 2.5 4.5 6.7
 277 22.7 20.0 30.0

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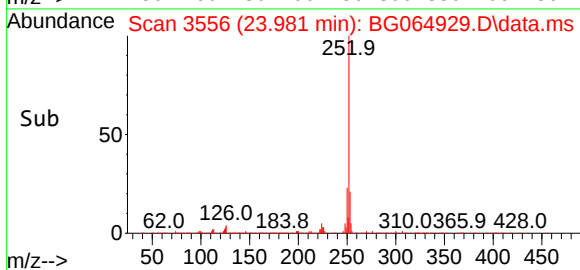
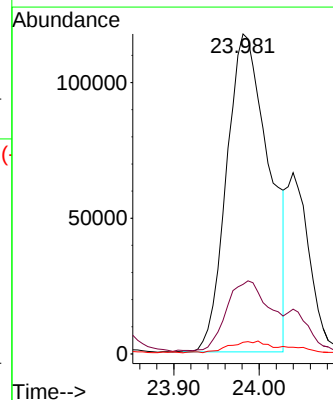
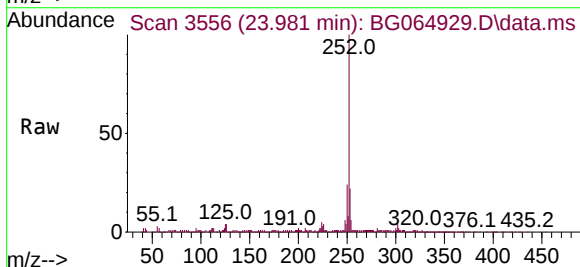
APPROVED

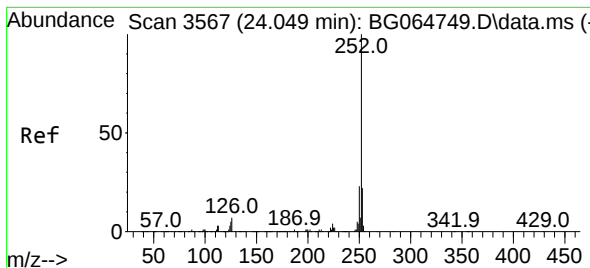
Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025



#88
 Benzo(b)fluoranthene
 Concen: 23.089 ng
 RT: 23.981 min Scan# 3556
 Delta R.T. -0.003 min
 Lab File: BG064929.D
 Acq: 10 Dec 2025 20:35

Tgt Ion:252 Resp: 406029
 Ion Ratio Lower Upper
 252 100
 253 21.7 17.4 26.2
 125 3.6 4.2 6.2#





#89

Benzo(k)fluoranthene

Concen: 6.784 ng m

RT: 24.040 min Scan# 3567

Delta R.T. -0.009 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

OR-02-120825DL

Tgt Ion:252 Resp: 119860

Ion Ratio Lower Upper

252 100

253 24.7 17.8 26.8

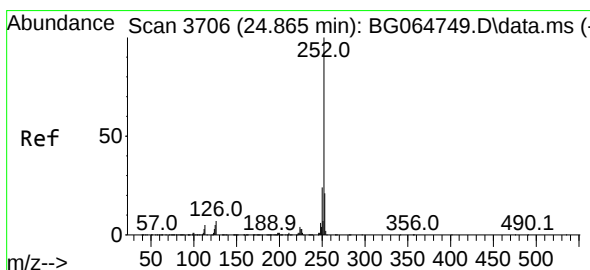
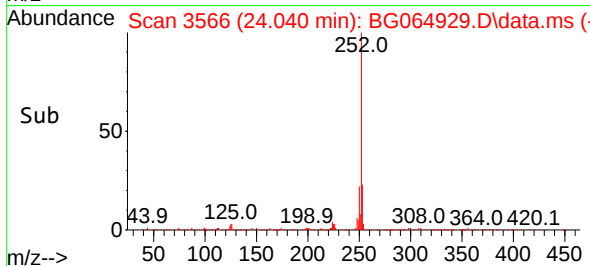
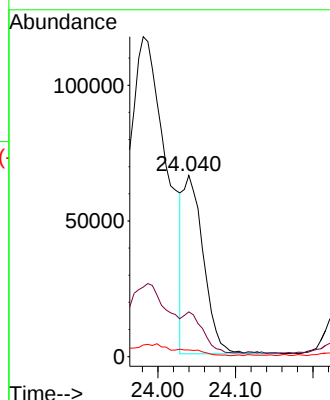
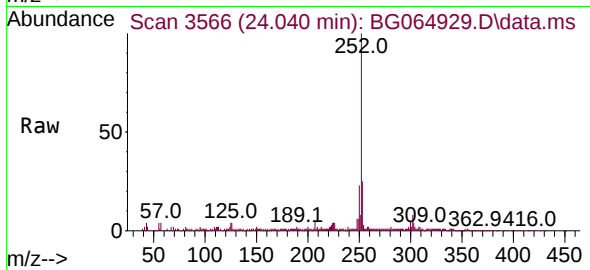
125 3.7 4.1 6.1

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: 18.732 ng m

RT: 24.868 min Scan# 3707

Delta R.T. 0.003 min

Lab File: BG064929.D

Acq: 10 Dec 2025 20:35

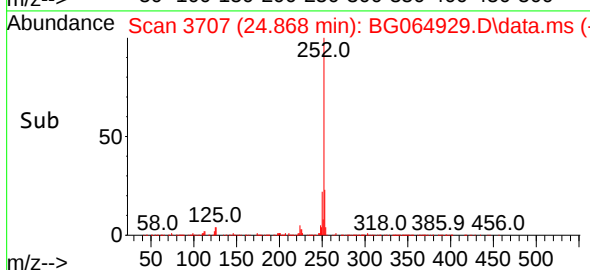
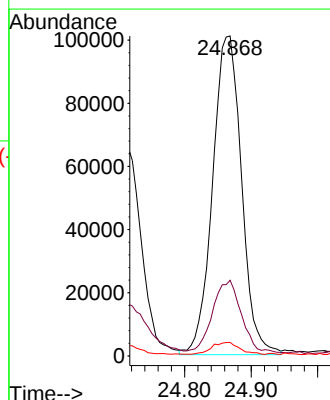
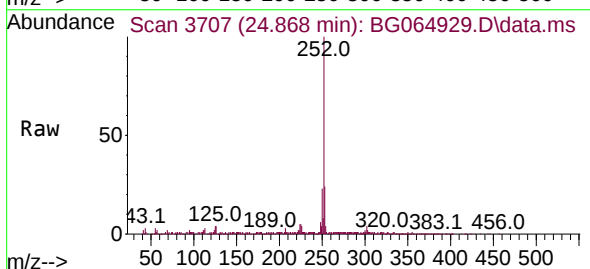
Tgt Ion:252 Resp: 305573

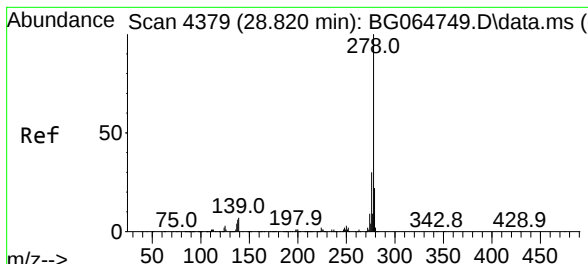
Ion Ratio Lower Upper

252 100

253 23.6 16.9 25.3

125 4.2 4.2 6.4





#91
Dibenzo(a,h)anthracene
Concen: 2.723 ng
RT: 28.793 min Scan# 4379
Delta R.T. -0.026 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Instrument :

BNA_G

ClientSampleId :

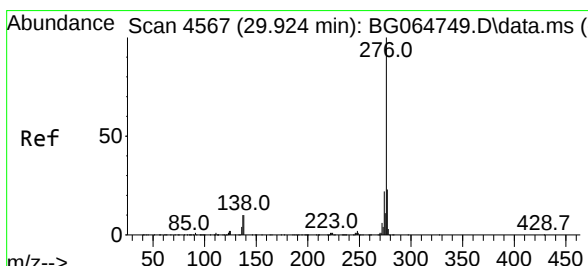
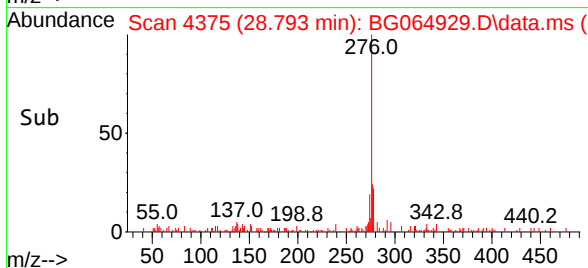
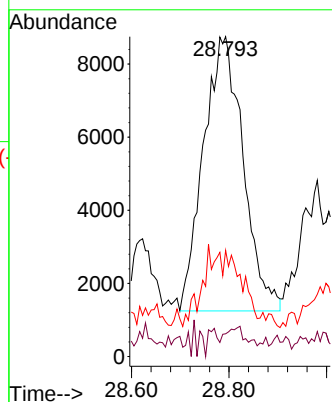
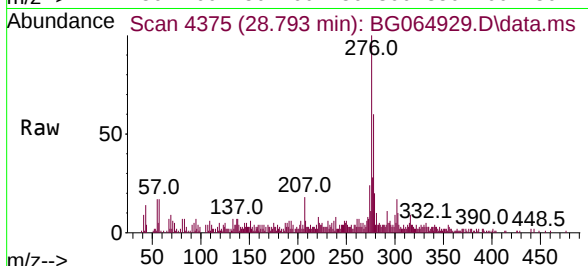
OR-02-120825DL

Tgt Ion:278 Resp: 42352
Ion Ratio Lower Upper
278 100
139 9.0 5.8 8.8
279 33.2 17.3 25.9

Manual Integrations

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



#92
Benzo(g,h,i)perylene
Concen: 11.167 ng
RT: 29.915 min Scan# 4566
Delta R.T. -0.009 min
Lab File: BG064929.D
Acq: 10 Dec 2025 20:35

Tgt Ion:276 Resp: 167155
Ion Ratio Lower Upper
276 100
277 21.5 18.0 27.0
138 8.0 8.2 12.2

