

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041924\
 Data File : BG060965.D
 Acq On : 19 Apr 2024 18:59
 Operator : MA/JU
 Sample : P2126-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SP-1B

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/22/2024
 Supervised By :mohammad ahmed 04/22/2024

Quant Time: Apr 19 22:43:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG041724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 18 02:02:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.941	152	37572	20.000	ng	0.00
21) Naphthalene-d8	10.738	136	122192	20.000	ng	# 0.00
39) Acenaphthene-d10	14.569	164	92124	20.000	ng	0.00
64) Phenanthrene-d10	17.318	188	214956	20.000	ng	# 0.00
76) Chrysene-d12	21.578	240	210535	20.000	ng	# 0.00
86) Perylene-d12	24.704	264	253721	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.526	112	139460	64.473	ng	0.00
7) Phenol-d6	7.107	99	188656	60.543	ng	0.00
23) Nitrobenzene-d5	9.093	82	140445	52.179	ng	0.00
42) 2,4,6-Tribromophenol	16.055	330	151757	99.714	ng	0.00
45) 2-Fluorobiphenyl	13.194	172	367925	58.607	ng	0.00
79) Terphenyl-d14	19.939	244	684593	56.750	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	14.627	154	12112	2.463	ng	96
58) Fluorene	15.614	166	18158	2.636	ng	98
71) Phenanthrene	17.359	178	371717	34.164	ng	99
72) Anthracene	17.448	178	82151	7.350	ng	97
73) Carbazole	17.712	167	40348	4.144	ng	99
75) Fluoranthene	19.375	202	812754	58.687	ng	96
78) Pyrene	19.733	202	701818	48.594	ng	99
81) Benzo(a)anthracene	21.555	228	440311	29.617	ng	98
83) Chrysene	21.619	228	399666	28.156	ng	98
84) Bis(2-ethylhexyl)phtha...	21.490	149	17528m	2.235	ng	
87) Indeno(1,2,3-cd)pyrene	28.247	276	234344	13.357	ng	# 89
88) Benzo(b)fluoranthene	23.723	252	520162	36.235	ng	# 94
89) Benzo(k)fluoranthene	23.776	252	206573m	14.066	ng	
90) Benzo(a)pyrene	24.557	252	374640	26.470	ng	# 97
91) Dibenzo(a,h)anthracene	28.311	278	63139m	4.372	ng	
92) Benzo(g,h,i)perylene	29.357	276	222113m	15.731	ng	

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

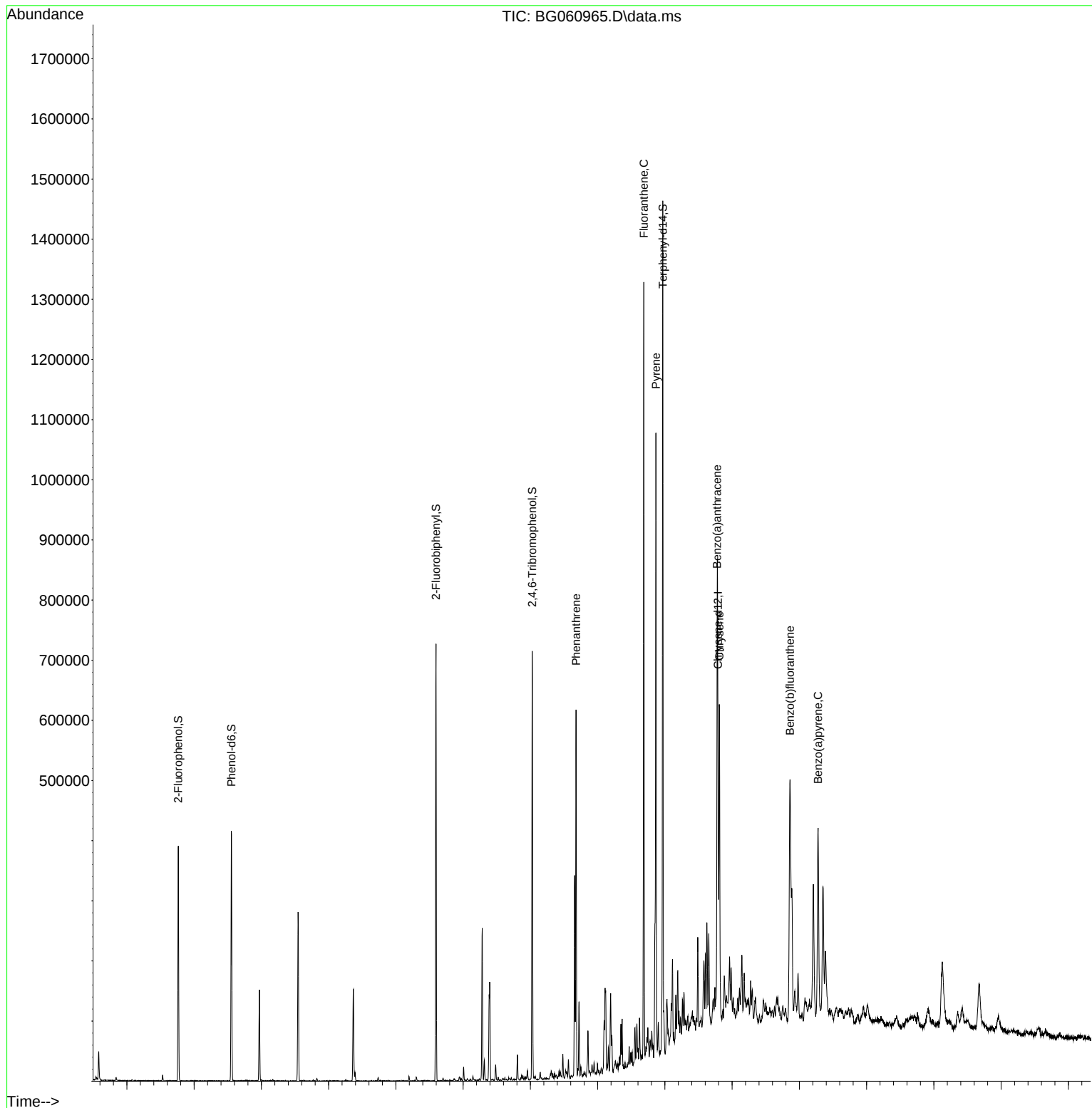
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041924\
Data File : BG060965.D
Acq On : 19 Apr 2024 18:59
Operator : MA/JU
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ALS Vial : 12 Sample Multiplier: 1

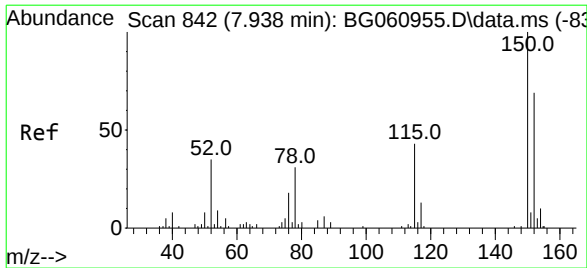
Instrument :
BNA_G
ClientSampleId :
SP-1B

Quant Time: Apr 19 22:43:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG041724.M
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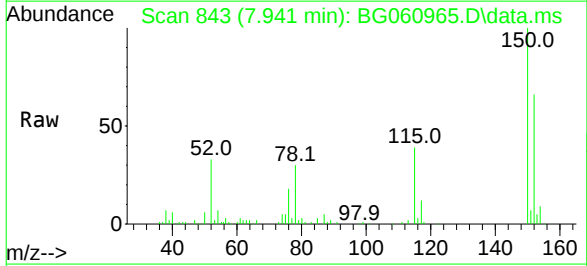
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.941 min Scan# 842
Delta R.T. -0.001 min
Lab File: BG060965.D
Acq: 19 Apr 2024 18:59

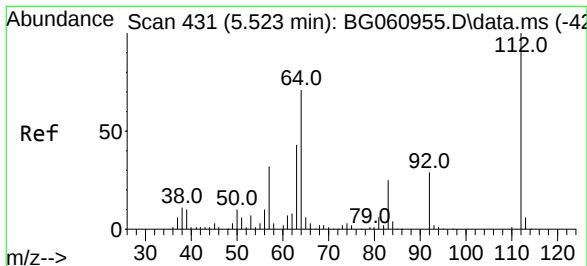
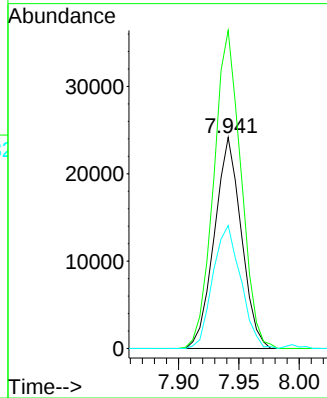
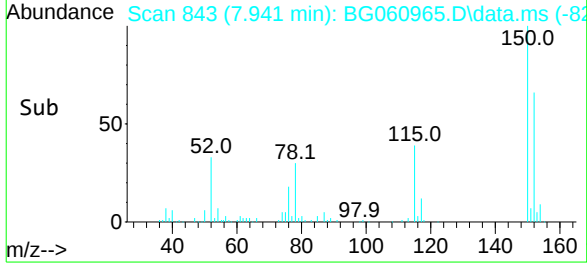
Instrument :
BNA_G
ClientSampleId :
SP-1B



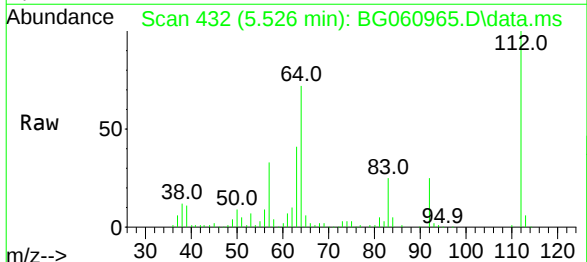
Tgt Ion:152 Resp: 37572
Ion Ratio Lower Upper
152 100
150 150.7 125.6 188.4
115 58.2 47.1 70.7

Manual Integrations
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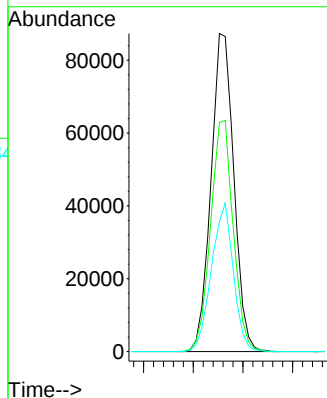
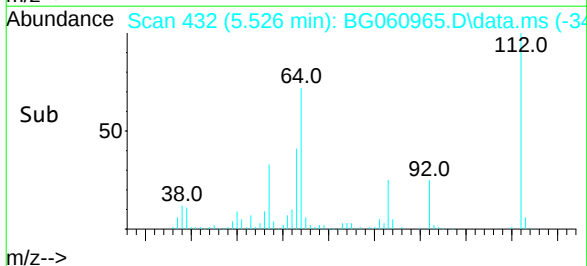
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024

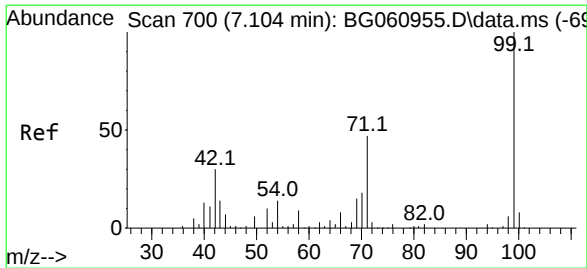


#5
2-Fluorophenol
Concen: 64.473 ng
RT: 5.526 min Scan# 432
Delta R.T. -0.000 min
Lab File: BG060965.D
Acq: 19 Apr 2024 18:59



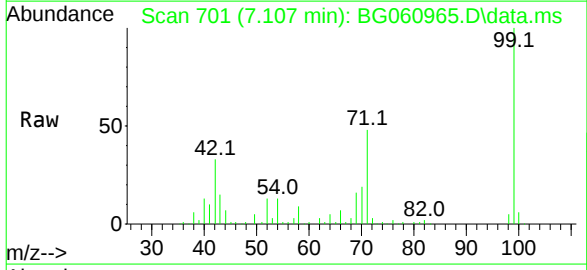
Tgt Ion:112 Resp: 139460
Ion Ratio Lower Upper
112 100
64 72.1 58.9 88.3
63 40.8 32.1 48.1





#7
Phenol-d6
Concen: 60.543 ng
RT: 7.107 min Scan# 700
Delta R.T. -0.000 min
Lab File: BG060965.D
Acq: 19 Apr 2024 18:59

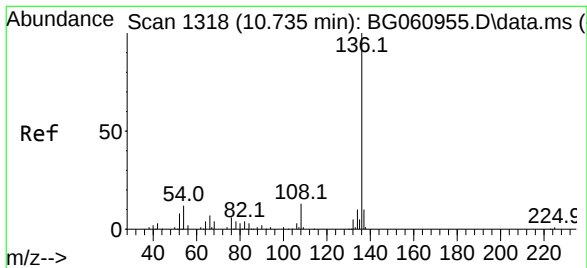
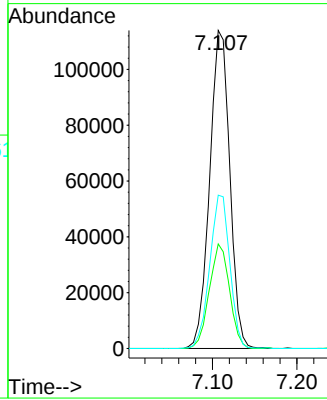
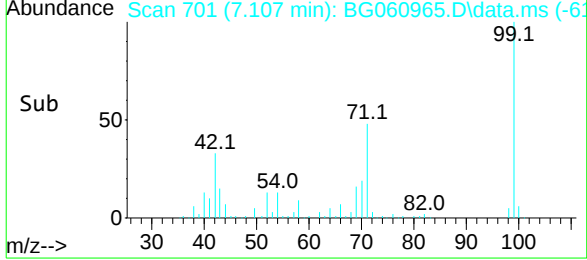
Instrument :
BNA_G
ClientSampleId :
SP-1B



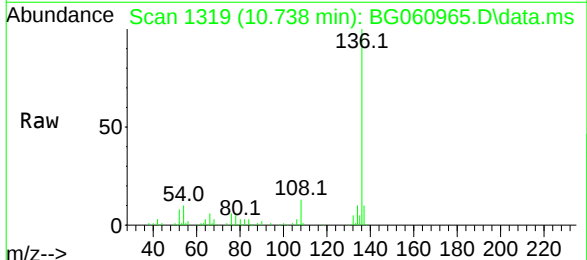
Tgt Ion: 99 Resp: 188656
Ion Ratio Lower Upper
99 100
42 32.9 22.2 33.2
71 48.2 30.5 45.7#

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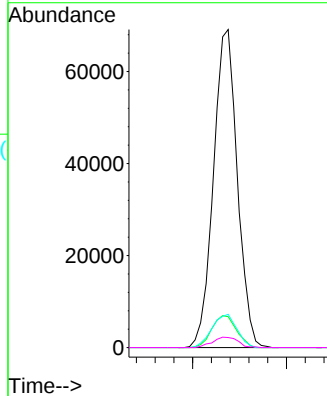
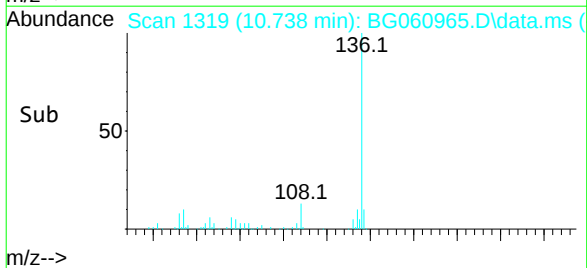
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024

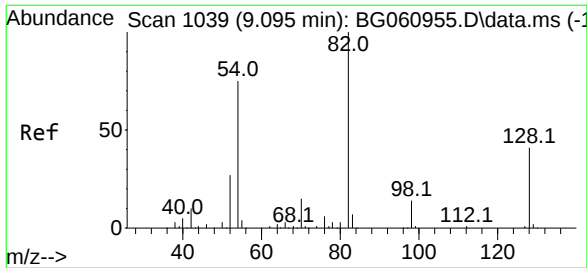


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.738 min Scan# 1319
Delta R.T. -0.000 min
Lab File: BG060965.D
Acq: 19 Apr 2024 18:59



Tgt Ion:136 Resp: 122192
Ion Ratio Lower Upper
136 100
137 9.7 8.8 13.2
54 10.5 9.8 14.8
68 3.2 5.0 7.4#





#23

Nitrobenzene-d5

Concen: 52.179 ng

RT: 9.093 min Scan# 1039

Delta R.T. -0.006 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B

Tgt Ion: 82 Resp: 140445

Ion Ratio Lower Upper

82 100

128 41.5 31.4 47.0

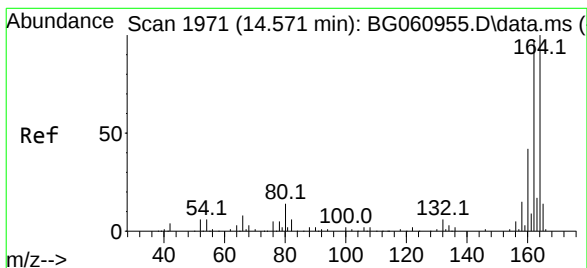
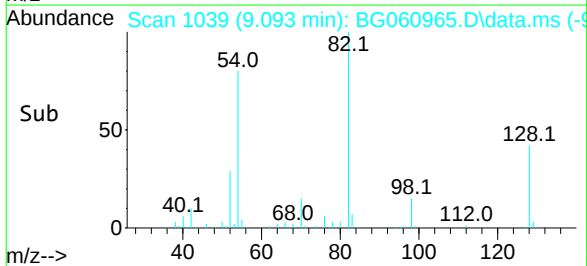
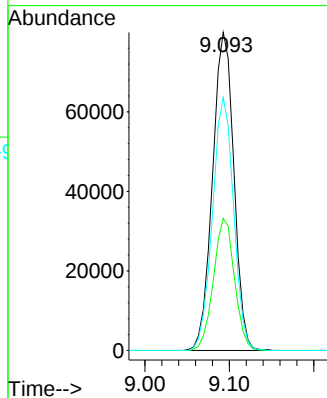
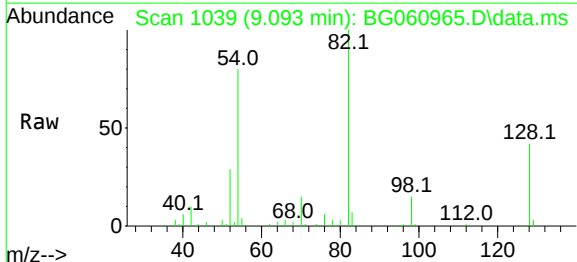
54 79.6 54.2 81.4

Manual Integrations

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Supervised By :mohammad ahmed 04/22/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.569 min Scan# 1971

Delta R.T. -0.000 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

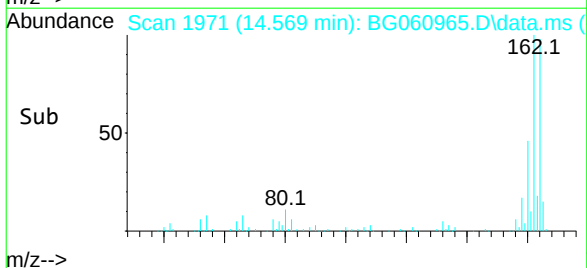
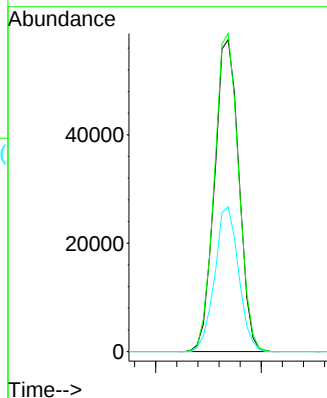
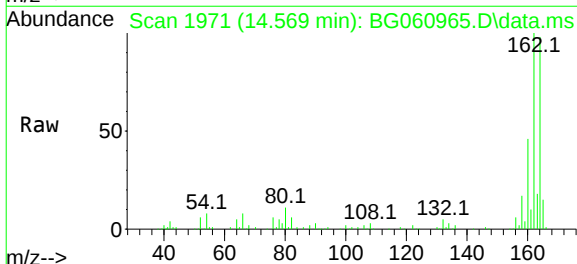
Tgt Ion:164 Resp: 92124

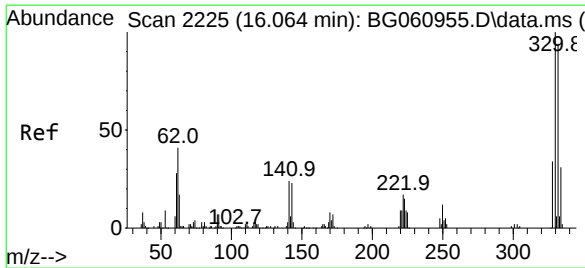
Ion Ratio Lower Upper

164 100

162 102.0 84.1 126.1

160 46.4 35.9 53.9





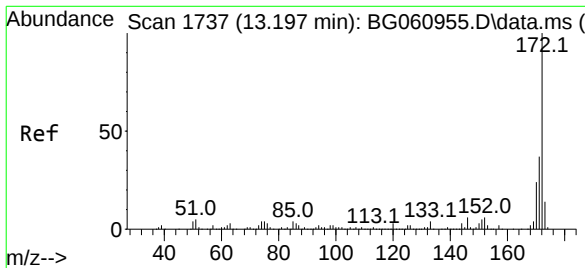
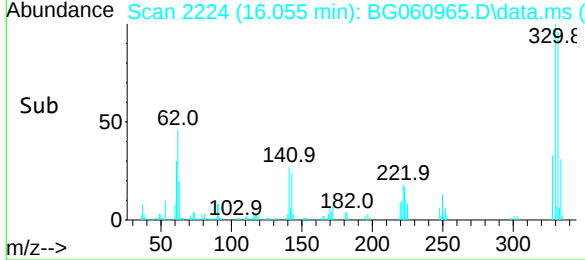
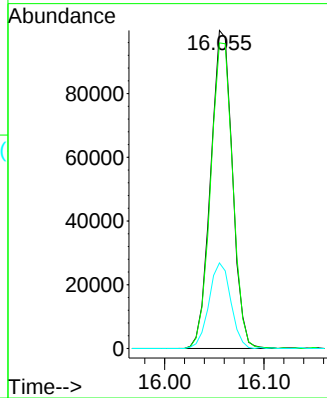
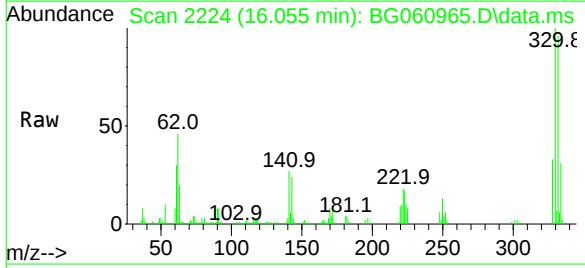
#42
2,4,6-Tribromophenol
Concen: 99.714 ng
RT: 16.055 min Scan# 2225
Delta R.T. -0.006 min
Lab File: BG060965.D
Acq: 19 Apr 2024 18:59

Instrument :
BNA_G
ClientSampleId :
SP-1B

Tgt Ion:330 Resp: 151757
Ion Ratio Lower Upper
330 100
332 97.5 76.9 115.3
141 27.0 23.7 35.5

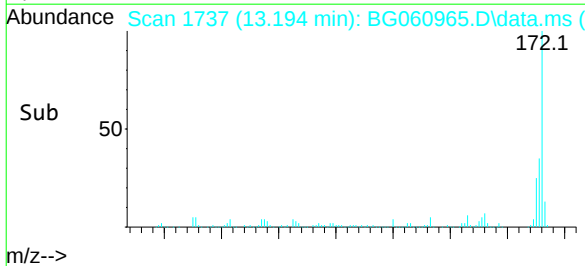
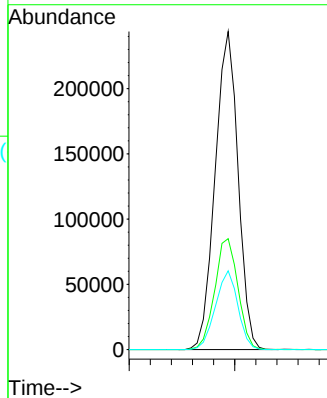
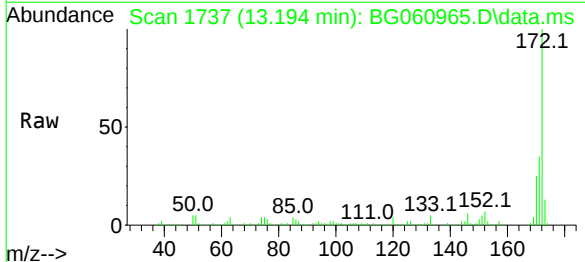
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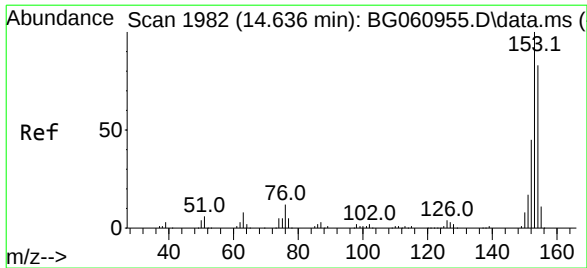
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024



#45
2-Fluorobiphenyl
Concen: 58.607 ng
RT: 13.194 min Scan# 1737
Delta R.T. -0.000 min
Lab File: BG060965.D
Acq: 19 Apr 2024 18:59

Tgt Ion:172 Resp: 367925
Ion Ratio Lower Upper
172 100
171 34.9 29.3 43.9
170 24.8 19.5 29.3





#52

Acenaphthene

Concen: 2.463 ng

RT: 14.627 min Scan# 19

Delta R.T. -0.006 min

Lab File: BG060965.D

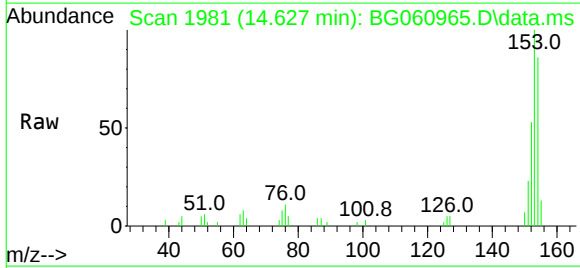
Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B



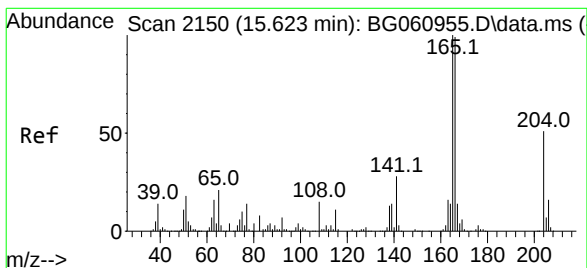
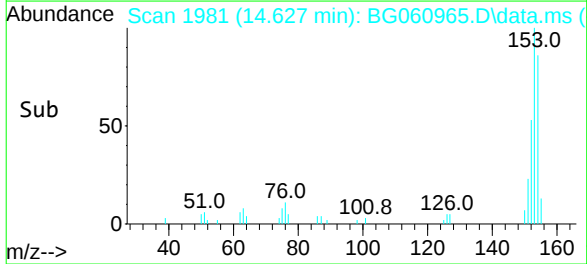
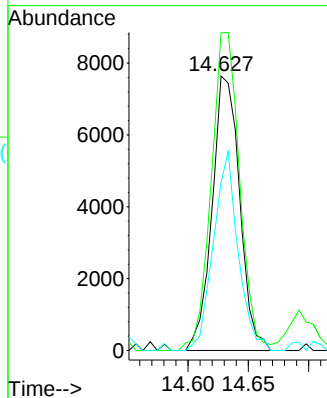
Tgt Ion:	154	Resp:	12112
Ion Ratio	Lower	Upper	
154	100		
153	115.7	91.4	137.0
152	61.2	44.1	66.1

Manual Integrations

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Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#58

Fluorene

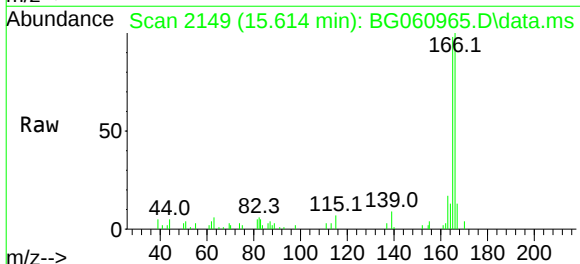
Concen: 2.636 ng

RT: 15.614 min Scan# 2149

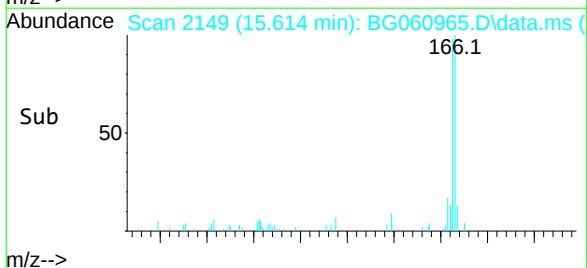
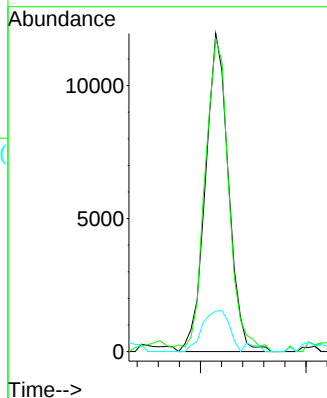
Delta R.T. -0.006 min

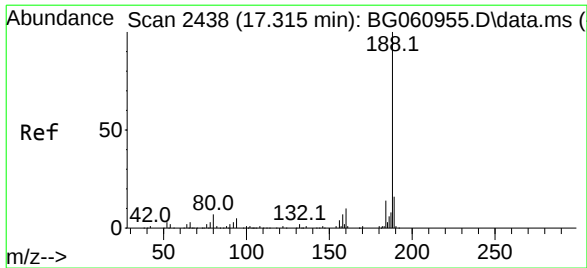
Lab File: BG060965.D

Acq: 19 Apr 2024 18:59



Tgt Ion:	166	Resp:	18158
Ion Ratio	Lower	Upper	
166	100		
165	98.3	80.2	120.4
167	12.7	10.4	15.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.318 min Scan# 2438

Delta R.T. -0.000 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B

Tgt Ion:188 Resp: 214956

Ion Ratio Lower Upper

188 100

94 4.1 5.7 8.5#

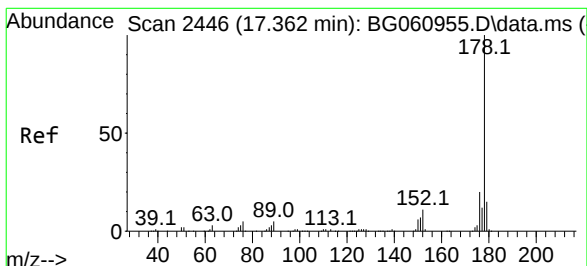
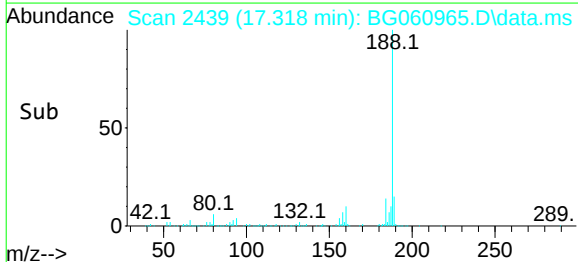
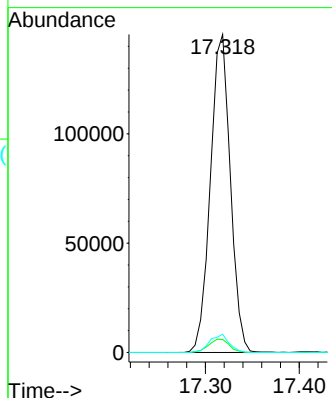
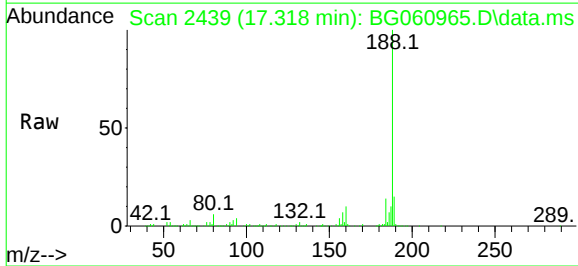
80 5.7 6.6 9.8#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#71

Phenanthrene

Concen: 34.164 ng

RT: 17.359 min Scan# 2446

Delta R.T. -0.000 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

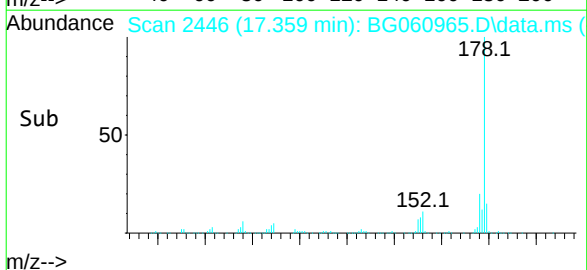
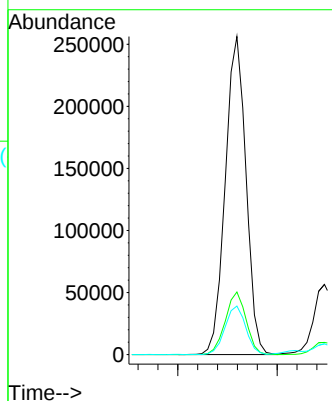
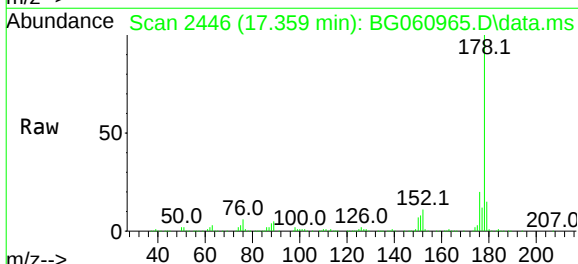
Tgt Ion:178 Resp: 371717

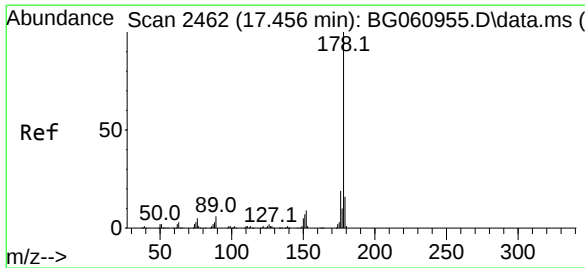
Ion Ratio Lower Upper

178 100

176 19.7 15.4 23.2

179 15.3 12.0 18.0





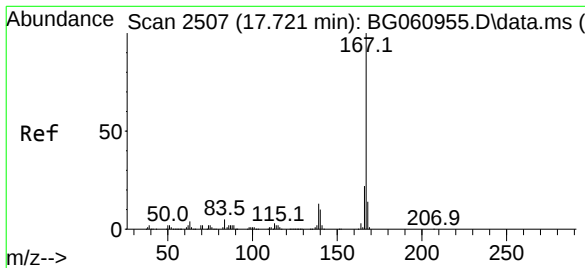
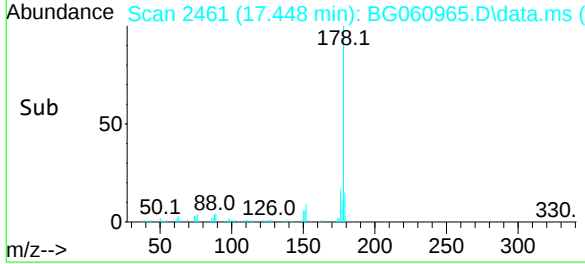
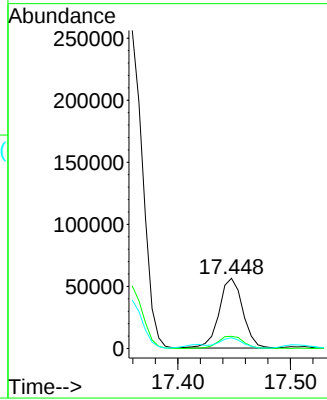
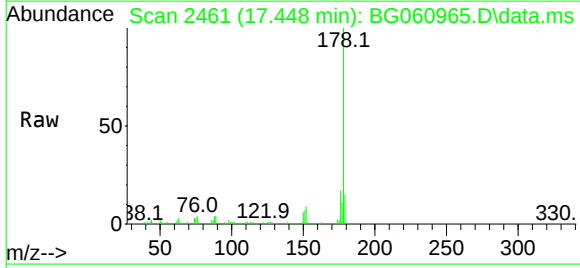
#72
 Anthracene
 Concen: 7.350 ng
 RT: 17.448 min Scan# 2461
 Delta R.T. -0.006 min
 Lab File: BG060965.D
 Acq: 19 Apr 2024 18:59

Instrument :
 BNA_G
 ClientSampleId :
 SP-1B

Tgt Ion:	178	Resp:	82151
Ion	Ratio	Lower	Upper
178	100		
176	17.3	15.0	22.4
179	15.3	11.6	17.4

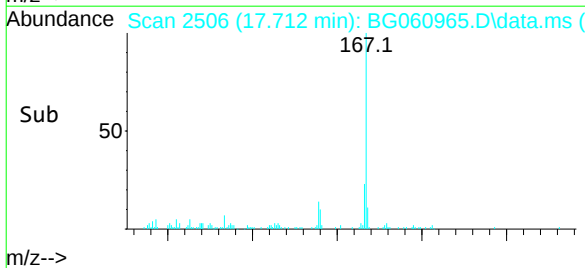
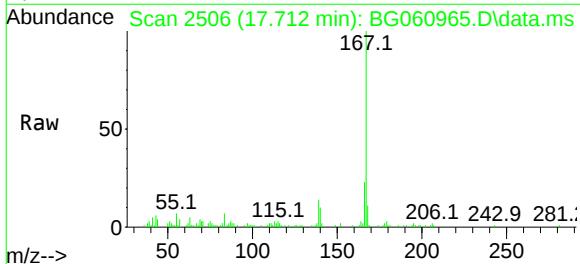
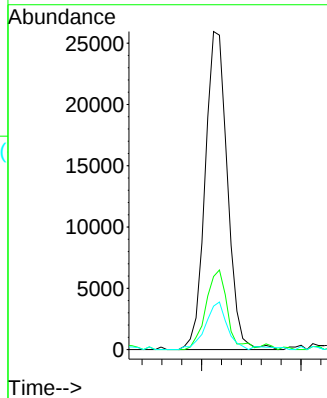
Manual Integrations
 APPROVED

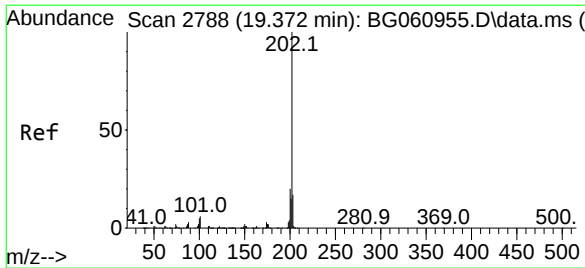
Reviewed By :Yogesh Patel 04/22/2024
 Supervised By :mohammad ahmed 04/22/2024



#73
 Carbazole
 Concen: 4.144 ng
 RT: 17.712 min Scan# 2506
 Delta R.T. -0.006 min
 Lab File: BG060965.D
 Acq: 19 Apr 2024 18:59

Tgt Ion:	167	Resp:	40348
Ion	Ratio	Lower	Upper
167	100		
166	23.0	18.4	27.6
139	13.7	10.1	15.1





#75

Fluoranthene

Concen: 58.687 ng

RT: 19.375 min Scan# 27

Delta R.T. 0.005 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B

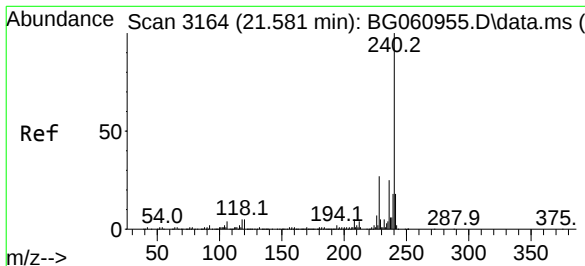
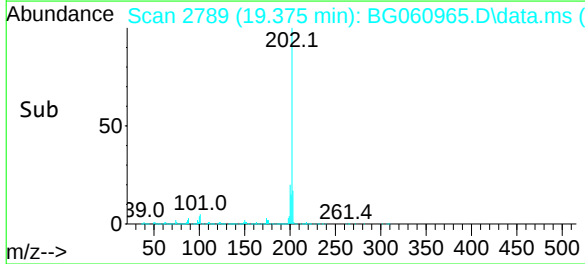
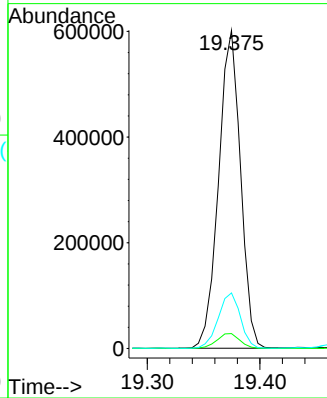
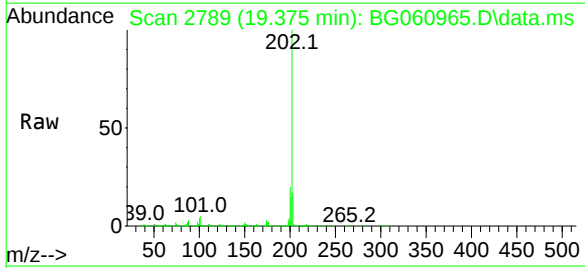
Tgt Ion:202 Resp: 812754
 Ion Ratio Lower Upper
 202 100
 101 4.7 0.0 28.6
 203 17.5 0.0 37.3

Manual Integrations

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Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#76

Chrysene-d12

Concen: 20.000 ng

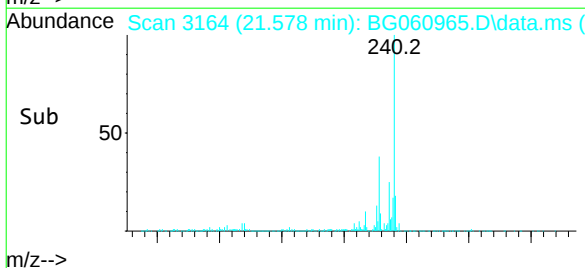
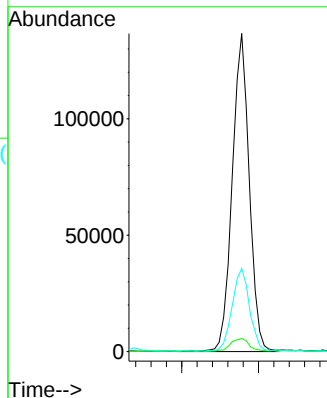
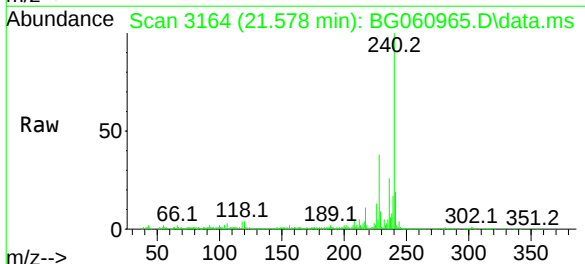
RT: 21.578 min Scan# 3164

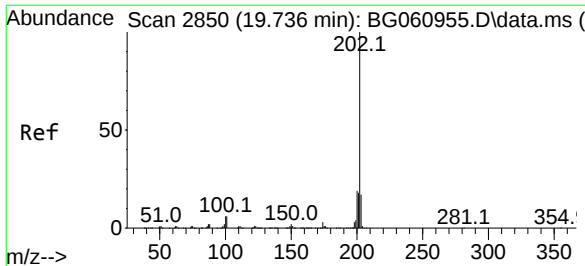
Delta R.T. -0.000 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Tgt Ion:240 Resp: 210535
 Ion Ratio Lower Upper
 240 100
 120 4.9 5.7 8.5#
 236 26.1 21.1 31.7





#78

Pyrene

Concen: 48.594 ng

RT: 19.733 min Scan# 2850

Delta R.T. -0.000 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B

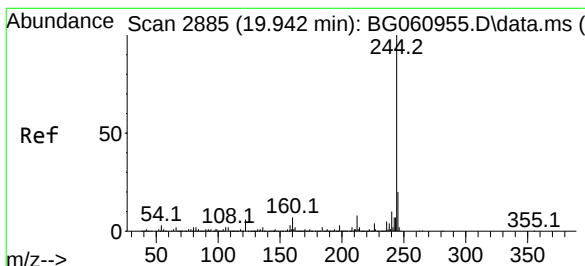
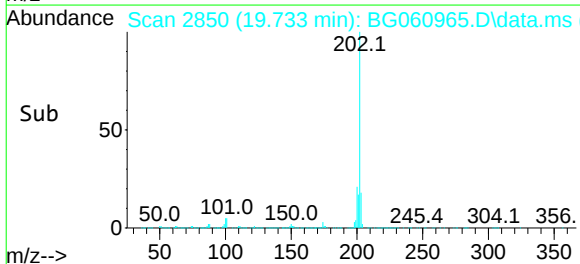
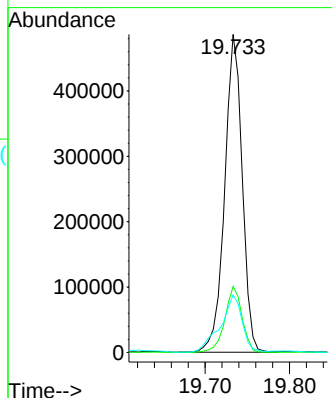
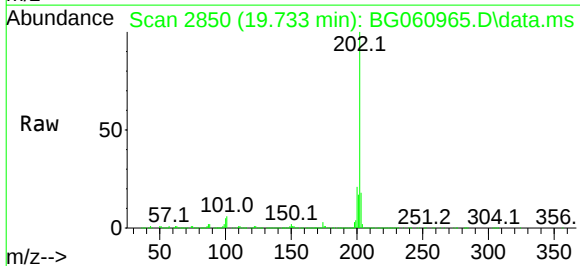
Tgt Ion:	202	Resp:	701818
Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	18.1	13.8	20.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#79

Terphenyl-d14

Concen: 56.750 ng

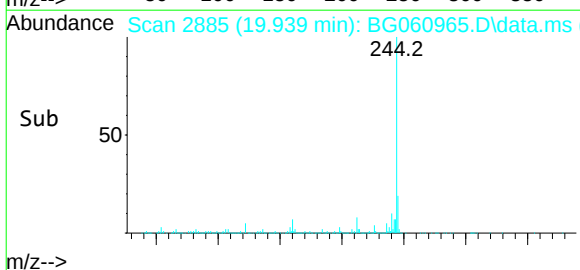
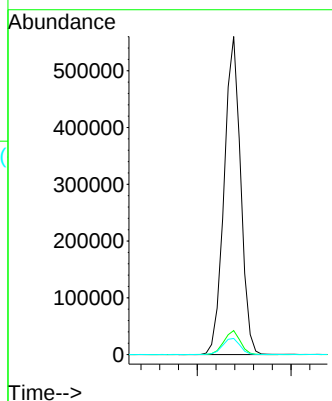
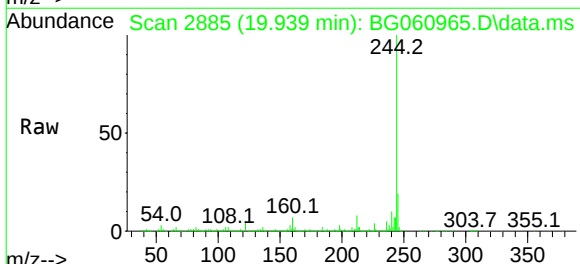
RT: 19.939 min Scan# 2885

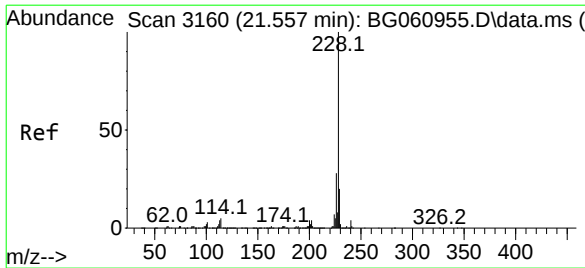
Delta R.T. -0.000 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Tgt Ion:	244	Resp:	684593
Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.2	9.4
122	5.1	6.6	9.8#





#81

Benzo(a)anthracene

Concen: 29.617 ng

RT: 21.555 min Scan# 31

Delta R.T. -0.006 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B

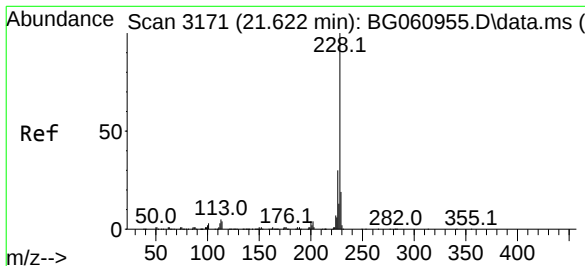
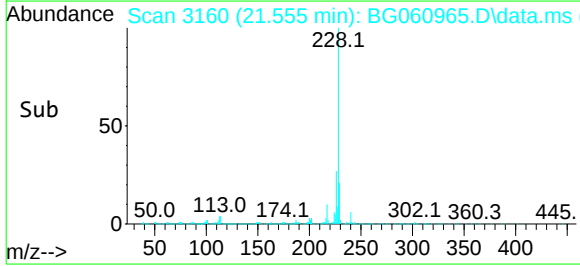
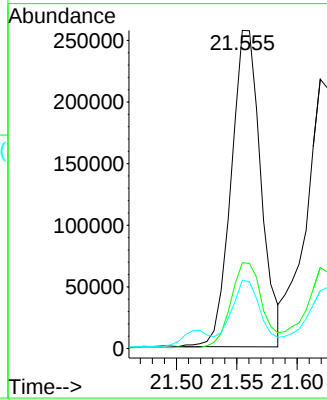
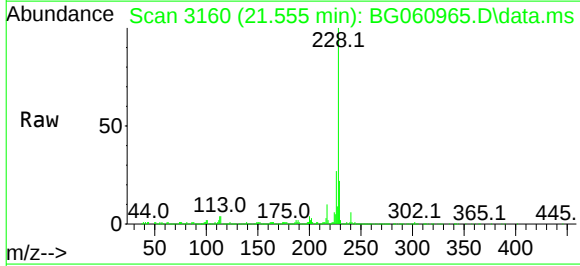
Tgt Ion:	228	Resp:	440311
Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.0	33.0
229	21.5	15.6	23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#83

Chrysene

Concen: 28.156 ng

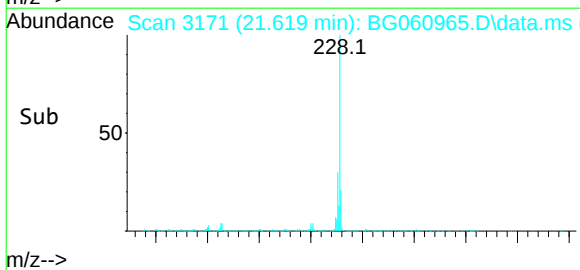
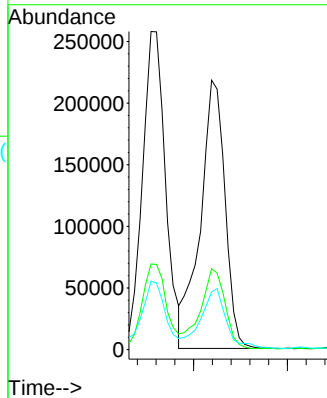
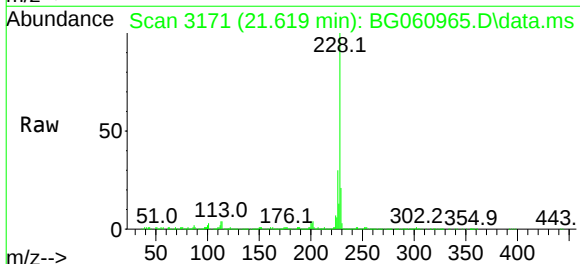
RT: 21.619 min Scan# 3171

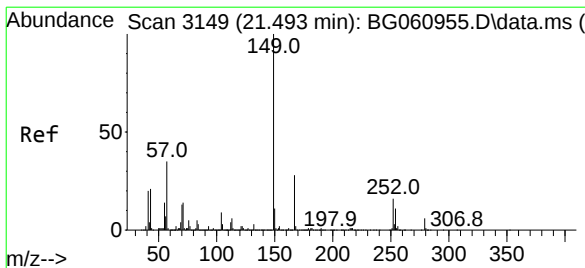
Delta R.T. -0.006 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Tgt Ion:	228	Resp:	399666
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.4	36.6
229	21.4	15.6	23.4





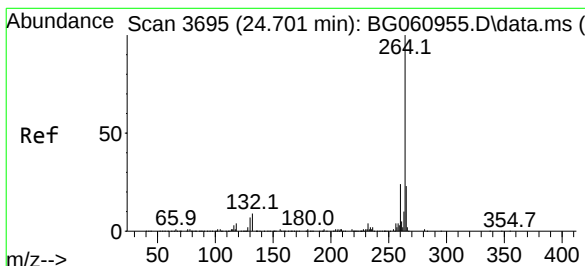
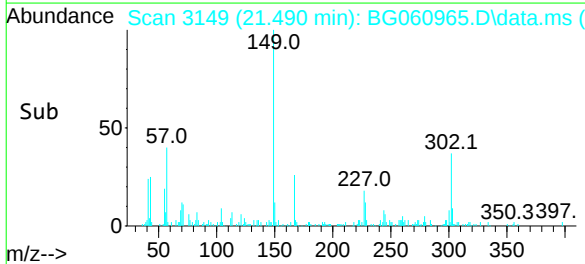
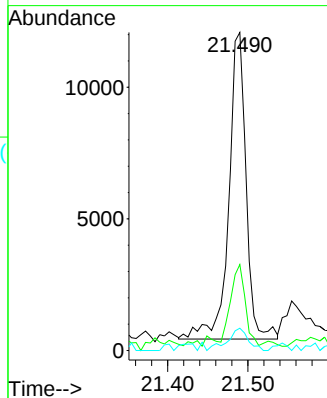
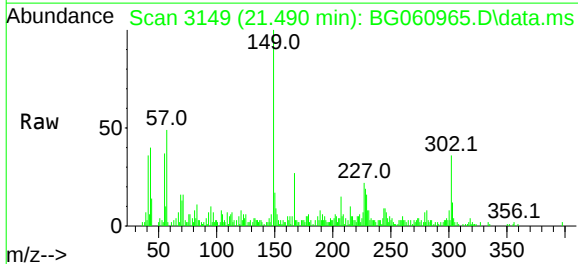
#84
Bis(2-ethylhexyl)phthalate
Concen: 2.235 ng m
RT: 21.490 min Scan# 3149
Delta R.T. -0.000 min
Lab File: BG060965.D
Acq: 19 Apr 2024 18:59

Instrument :
BNA_G
ClientSampleId :
SP-1B

Tgt Ion:149 Resp: 17528
Ion Ratio Lower Upper
149 100
167 27.0 22.4 33.6
279 7.0 3.2 4.8#

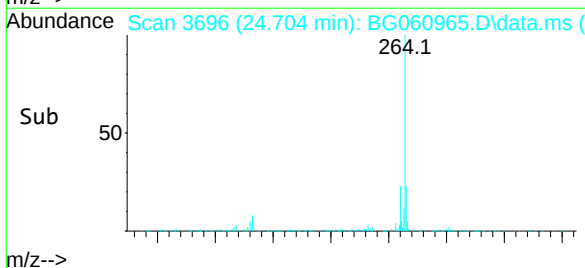
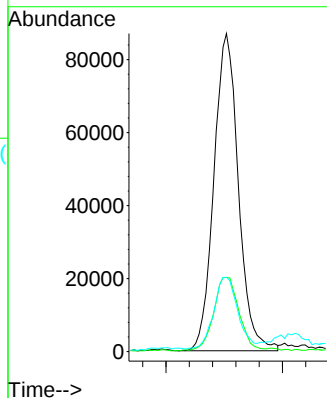
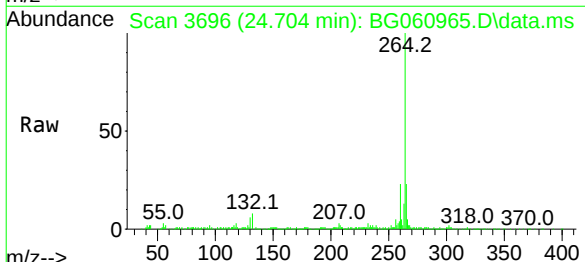
Manual Integrations
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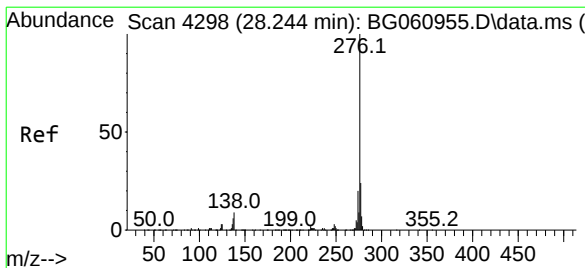
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.704 min Scan# 3696
Delta R.T. 0.005 min
Lab File: BG060965.D
Acq: 19 Apr 2024 18:59

Tgt Ion:264 Resp: 253721
Ion Ratio Lower Upper
264 100
260 23.3 19.6 29.4
265 23.3 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.357 ng

RT: 28.247 min Scan# 42

Delta R.T. -0.000 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B

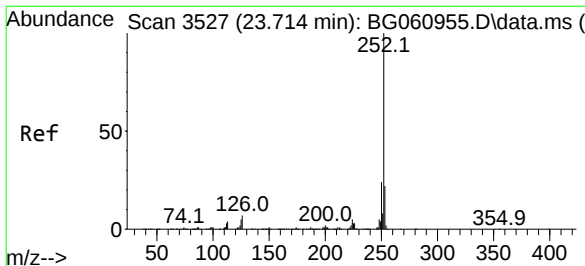
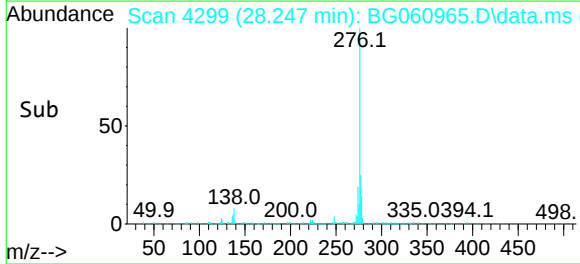
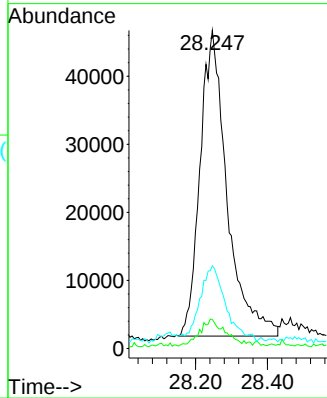
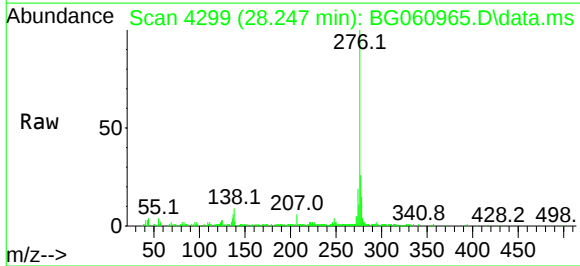
Tgt Ion:	276	Resp:	234344
Ion	Ratio	Lower	Upper
276	100		
138	8.1	10.8	16.2
277	20.3	20.3	30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#88

Benzo(b)fluoranthene

Concen: 36.235 ng

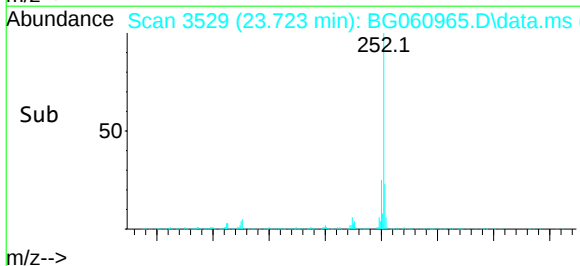
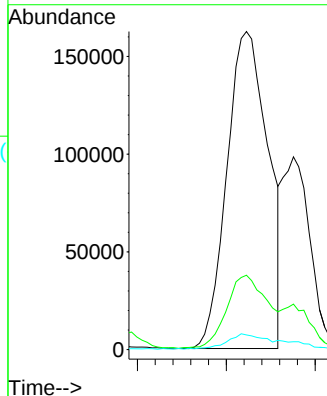
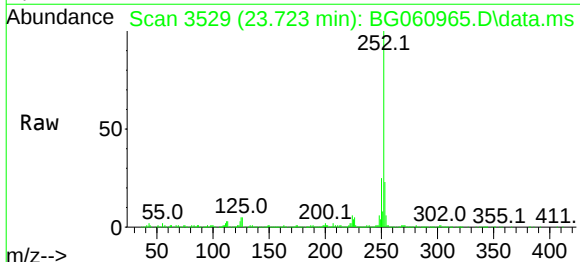
RT: 23.723 min Scan# 3529

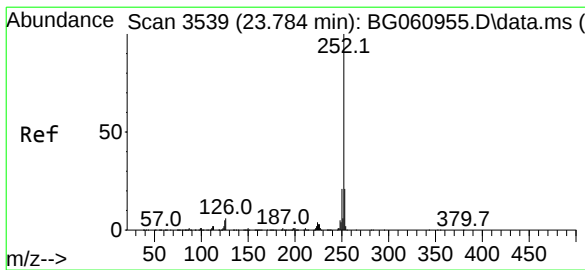
Delta R.T. 0.005 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Tgt Ion:	252	Resp:	520162
Ion	Ratio	Lower	Upper
252	100		
253	23.4	16.8	25.2
125	4.6	5.6	8.4





#89

Benzo(k)fluoranthene

Concen: 14.066 ng m

RT: 23.776 min Scan# 3539

Delta R.T. -0.006 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B

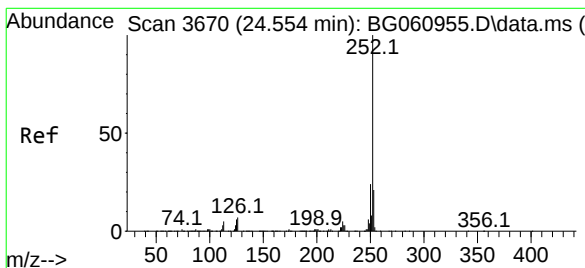
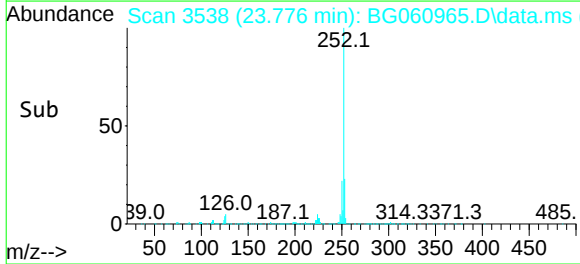
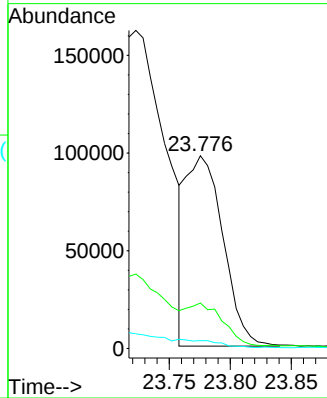
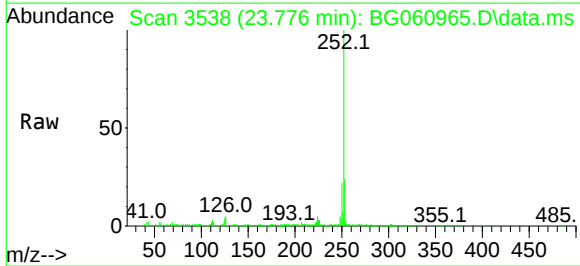
Tgt Ion:	252	Resp:	206573
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.9	26.9
125	4.1	5.8	8.8#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#90

Benzo(a)pyrene

Concen: 26.470 ng

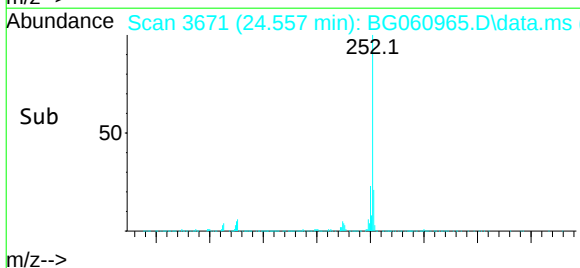
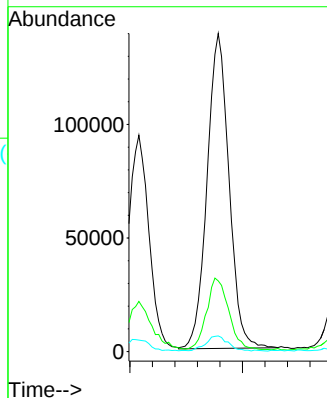
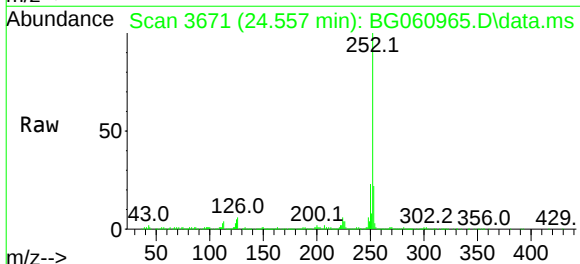
RT: 24.557 min Scan# 3671

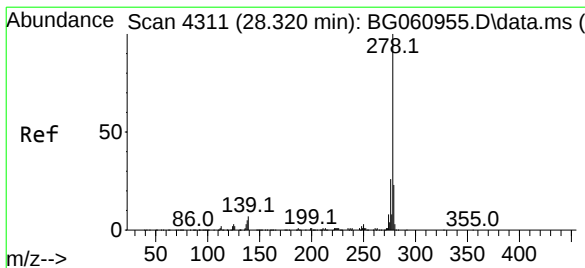
Delta R.T. 0.005 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Tgt Ion:	252	Resp:	374640
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.1	25.7
125	4.9	6.1	9.1#





#91

Dibenzo(a,h)anthracene

Concen: 4.372 ng m

RT: 28.311 min Scan# 4311

Delta R.T. -0.006 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Instrument :

BNA_G

ClientSampleId :

SP-1B

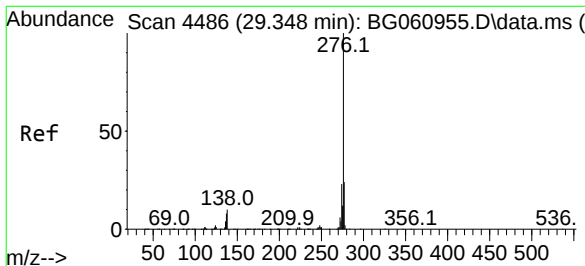
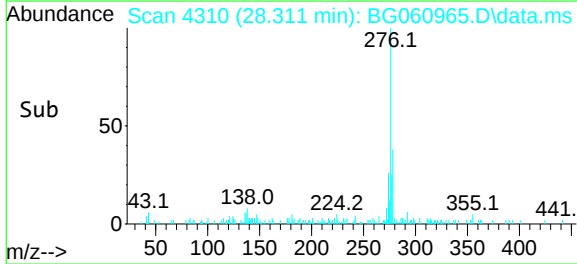
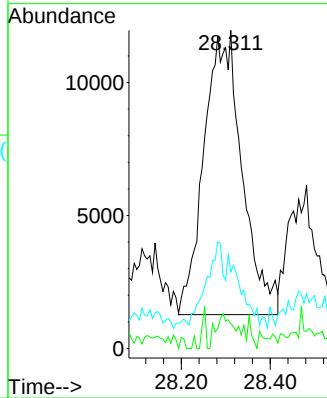
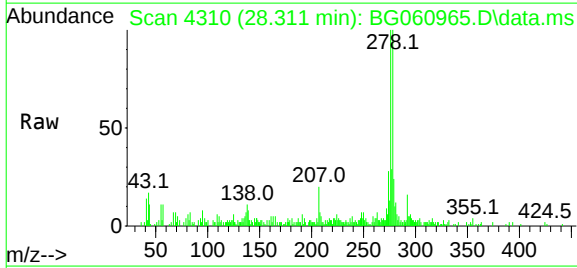
Tgt Ion:	278	Resp:	63139
Ion Ratio	Lower	Upper	
278	100		
139	7.9	8.6	12.8#
279	24.1	19.4	29.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#92

Benzo(g,h,i)perylene

Concen: 15.731 ng m

RT: 29.357 min Scan# 4488

Delta R.T. 0.005 min

Lab File: BG060965.D

Acq: 19 Apr 2024 18:59

Tgt Ion:	276	Resp:	222113
Ion Ratio	Lower	Upper	
276	100		
277	25.9	18.3	27.5
138	9.2	12.2	18.4#

