

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021723\
 Data File : BG056667.D
 Acq On : 17 Feb 2023 22:35
 Operator : CG/JU
 Sample : 01574-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 WASTE

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/18/2023
 Supervised By :mohammad ahmed 02/20/2023

Quant Time: Feb 18 00:10:00 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 16 01:33:33 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.433	152	20403	20.000	ng	0.00
21) Naphthalene-d8	11.270	136	78450	20.000	ng	0.00
39) Acenaphthene-d10	15.037	164	54267	20.000	ng	0.00
64) Phenanthrene-d10	17.769	188	119161	20.000	ng	0.00
76) Chrysene-d12	22.087	240	106218	20.000	ng	-0.01
86) Perylene-d12	25.630	264	118960	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.941	112	123901	98.807	ng	0.00
7) Phenol-d6	7.551	99	175502	94.748	ng	0.00
23) Nitrobenzene-d5	9.608	82	98999	64.613	ng	0.00
42) 2,4,6-Tribromophenol	16.511	330	66932	90.086	ng	0.00
45) 2-Fluorobiphenyl	13.668	172	253536	62.561	ng	0.00
79) Terphenyl-d14	20.342	244	404482	62.304	ng	0.00
Target Compounds						Qvalue
38) 1-Methylnaphthalene	13.109	142	6411	2.001	ng	91
49) Acenaphthylene	14.766	152	21104	3.993	ng	# 93
58) Fluorene	16.071	166	10069	2.312	ng	96
71) Phenanthrene	17.810	178	63262	9.758	ng	98
72) Anthracene	17.904	178	13609m	2.052	ng	
75) Fluoranthene	19.796	202	95613	11.177	ng	96
78) Pyrene	20.160	202	164286	20.480	ng	98
81) Benzo(a)anthracene	22.070	228	78203	9.900	ng	# 90
83) Chrysene	22.134	228	90766	12.291	ng	# 95
87) Indeno(1,2,3-cd)pyrene	29.714	276	43780	4.699	ng	# 77
88) Benzo(b)fluoranthene	24.502	252	83492	10.743	ng	# 96
89) Benzo(k)fluoranthene	24.561	252	22263m	2.913	ng	
90) Benzo(a)pyrene	25.466	252	66569	8.911	ng	97
92) Benzo(g,h,i)perylene	31.000	276	47625	6.317	ng	96

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

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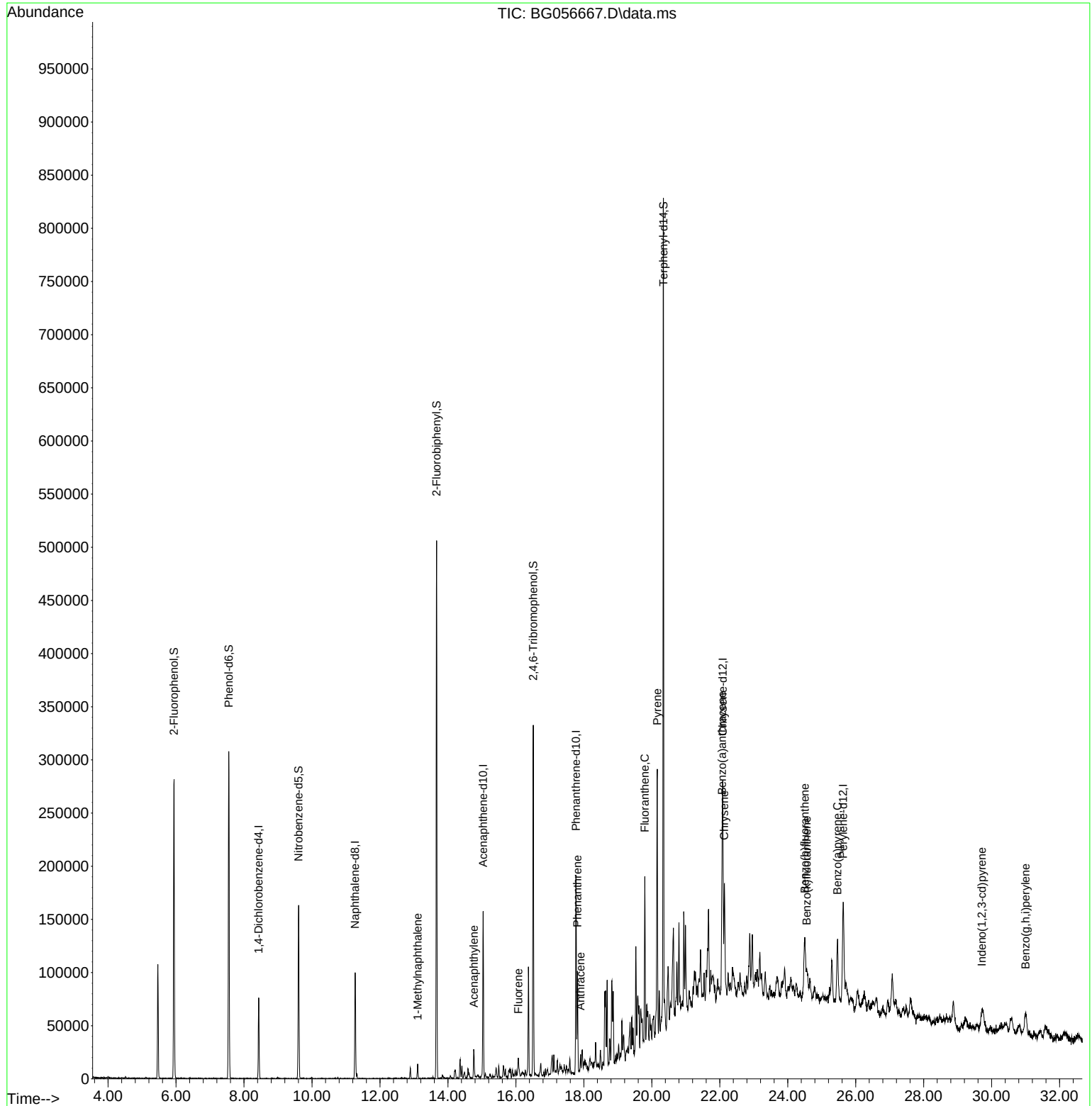
Manual Integrations

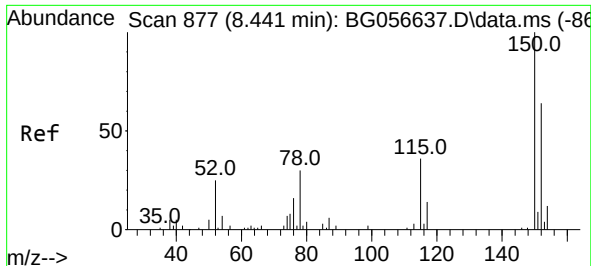
APPROVED

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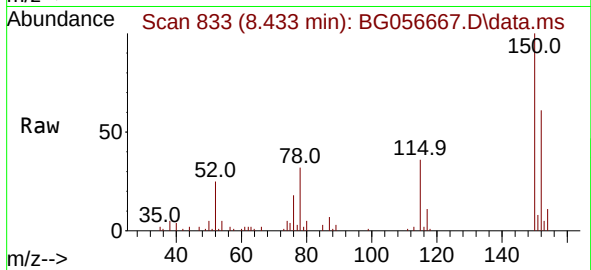
Quant Time: Feb 18 00:10:00 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 16 01:33:33 2023
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.433 min Scan# 81
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

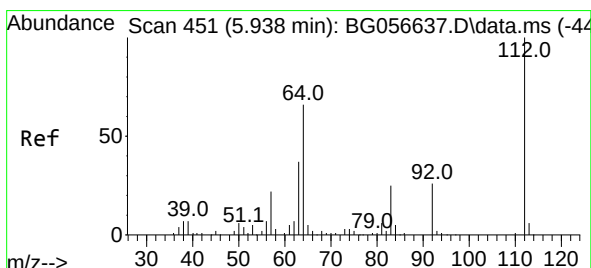
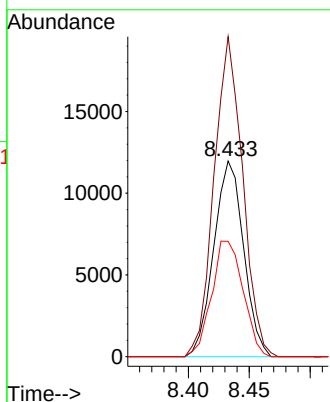
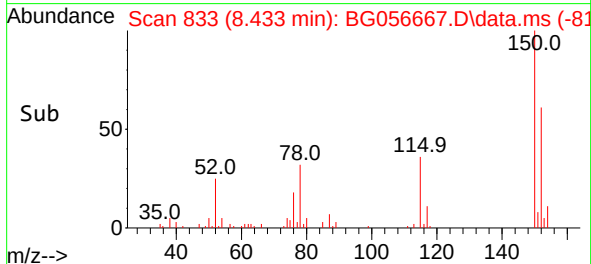
Instrument :
BNA_G
ClientSampleId :
WASTE



Tgt Ion:152 Resp: 2040
Ion Ratio Lower Upper
152 100
150 163.5 124.8 187.2
115 58.9 44.7 67.1

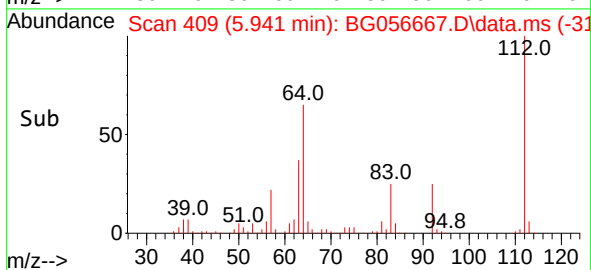
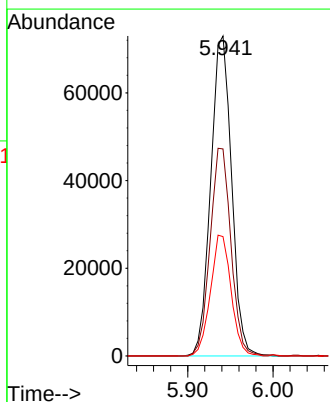
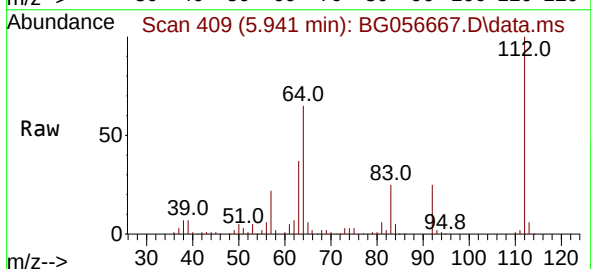
Manual Integrations
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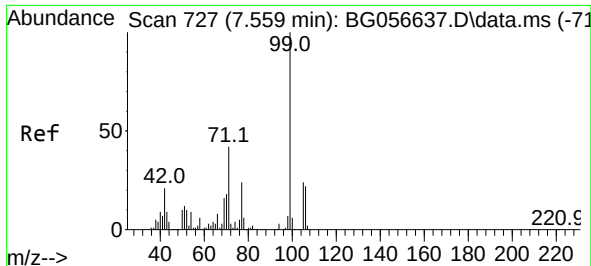
Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023



#5
2-Fluorophenol
Concen: 98.807 ng
RT: 5.941 min Scan# 409
Delta R.T. 0.004 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Tgt Ion:112 Resp: 123901
Ion Ratio Lower Upper
112 100
64 64.7 52.6 78.8
63 37.3 29.8 44.6





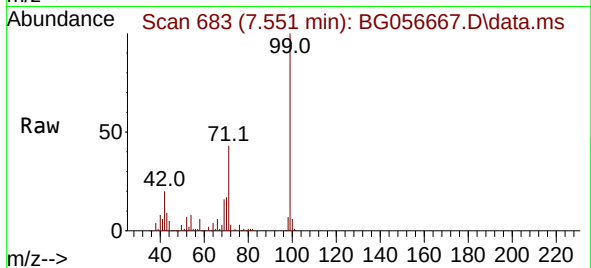
#7
Phenol-d6
Concen: 94.748 ng
RT: 7.551 min Scan# 61
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Instrument :

BNA_G

ClientSampleId :

WASTE



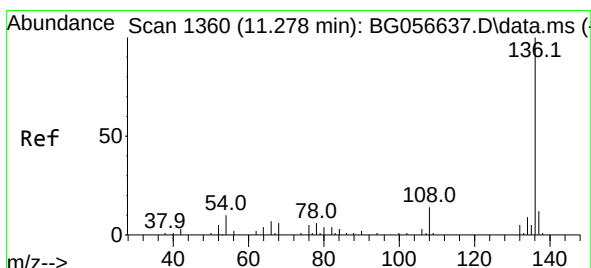
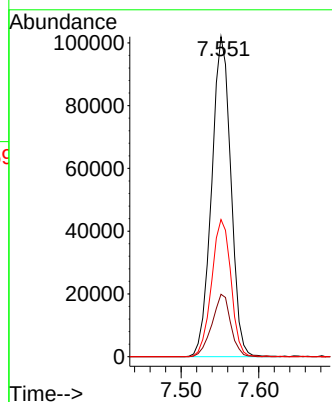
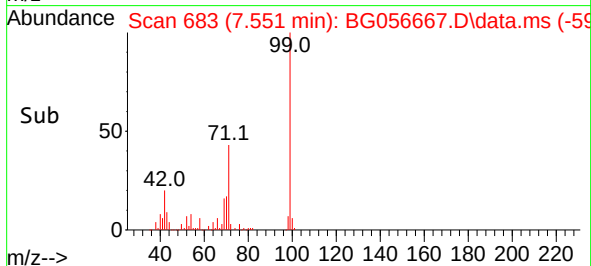
Tgt Ion: 99 Resp: 17550
Ion Ratio Lower Upper
99 100
42 19.5 16.8 25.2
71 42.9 33.9 50.9

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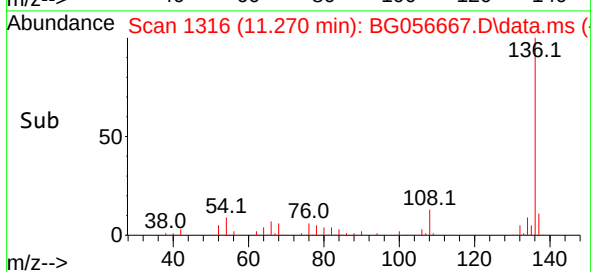
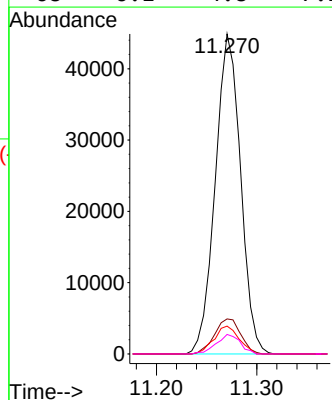
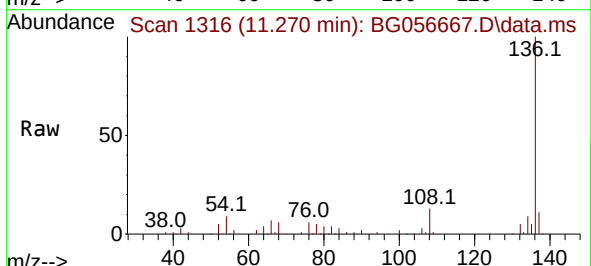
Reviewed By :Yogesh Patel 02/18/2023

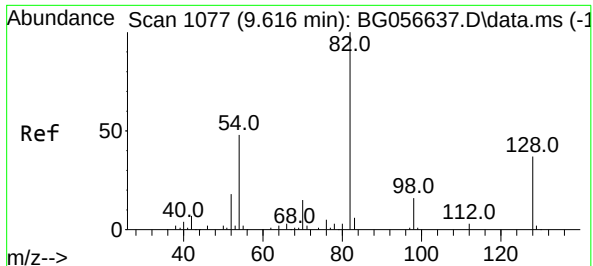
Supervised By :mohammad ahmed 02/20/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.270 min Scan# 1316
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Tgt Ion:136 Resp: 78450
Ion Ratio Lower Upper
136 100
137 11.0 9.7 14.5
54 8.7 7.7 11.5
68 6.1 4.8 7.2





#23

Nitrobenzene-d5

Concen: 64.613 ng

RT: 9.608 min Scan# 1077

Delta R.T. -0.008 min

Lab File: BG056667.D

Acq: 17 Feb 2023 22:35

Instrument :

BNA_G

ClientSampleId :

WASTE

Tgt Ion: 82 Resp: 9899

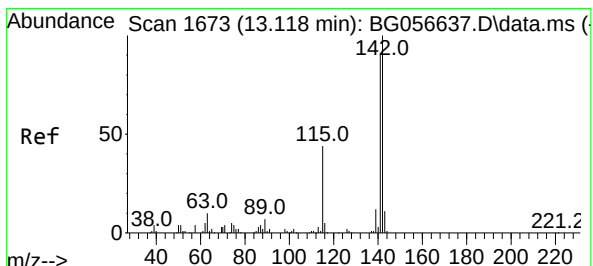
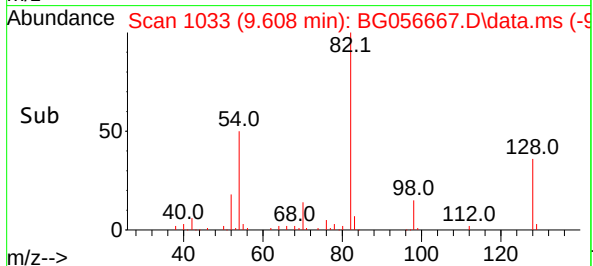
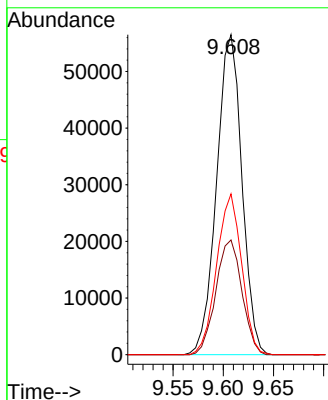
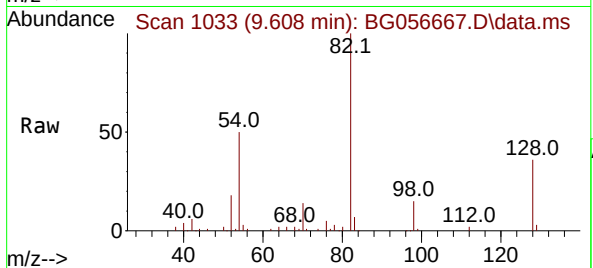
Ion	Ratio	Lower	Upper
82	100		
128	35.8	29.4	44.2
54	50.3	37.8	56.6

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#38

1-Methylnaphthalene

Concen: 2.001 ng

RT: 13.109 min Scan# 1629

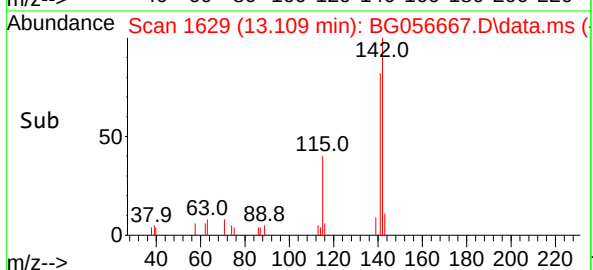
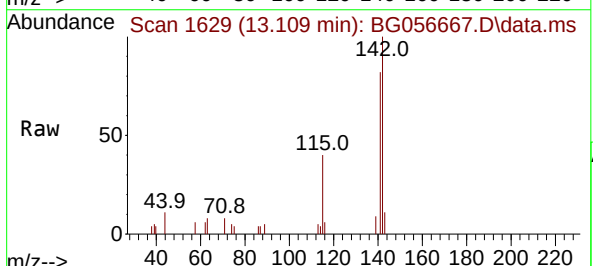
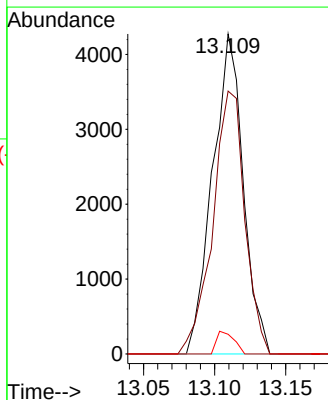
Delta R.T. -0.008 min

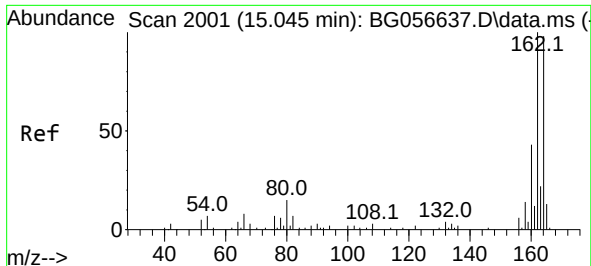
Lab File: BG056667.D

Acq: 17 Feb 2023 22:35

Tgt Ion:142 Resp: 6411

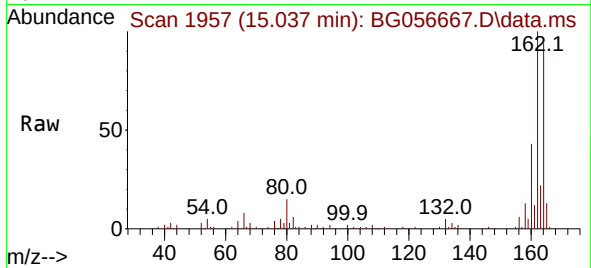
Ion	Ratio	Lower	Upper
142	100		
141	82.2	72.7	109.1
116	6.2	4.2	6.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.037 min Scan# 1957
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

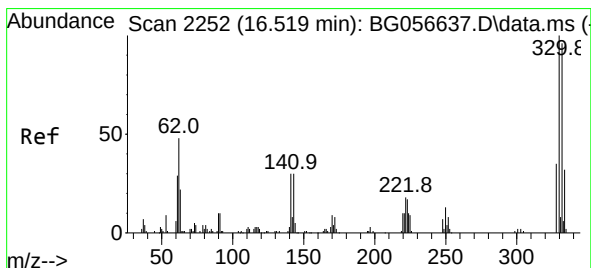
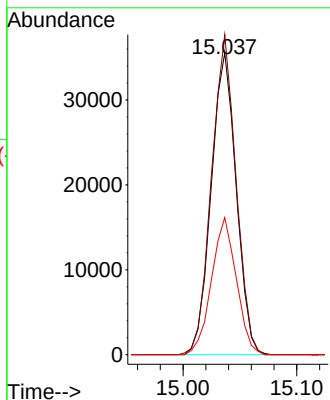
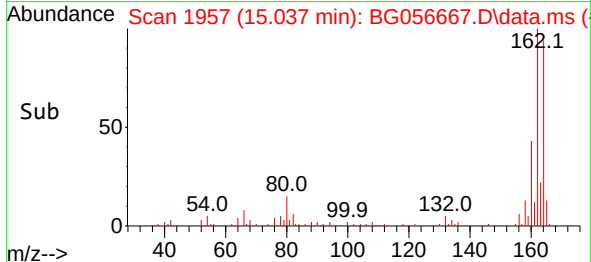
Instrument :
BNA_G
ClientSampleId :
WASTE



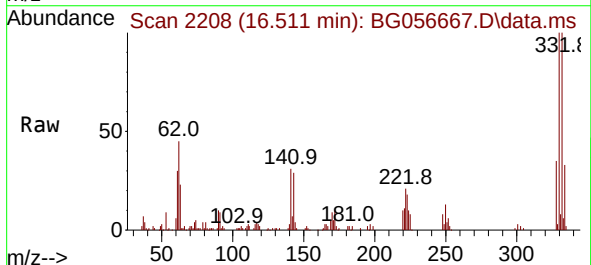
Tgt Ion:164 Resp: 5426
Ion Ratio Lower Upper
164 100
162 106.0 81.3 121.9
160 45.4 35.2 52.8

Manual Integrations
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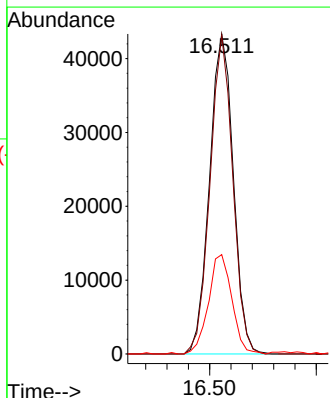
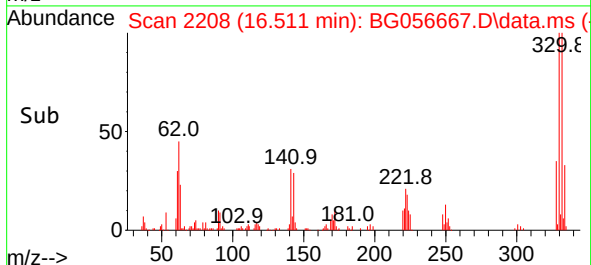
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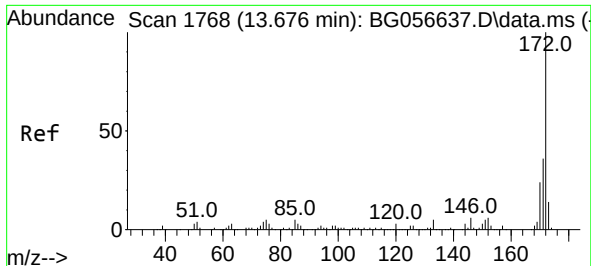


#42
2,4,6-Tribromophenol
Concen: 90.086 ng
RT: 16.511 min Scan# 2208
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35



Tgt Ion:330 Resp: 66932
Ion Ratio Lower Upper
330 100
332 95.3 75.7 113.5
141 30.7 24.6 37.0





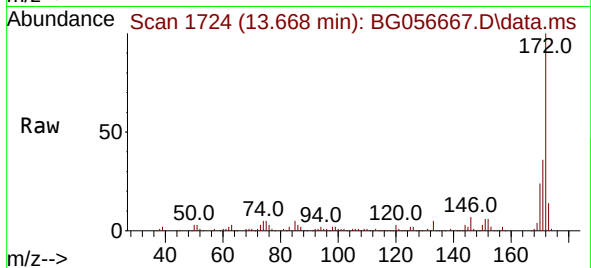
#45
2-Fluorobiphenyl
Concen: 62.561 ng
RT: 13.668 min Scan# 11
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Instrument :

BNA_G

ClientSampleId :

WASTE

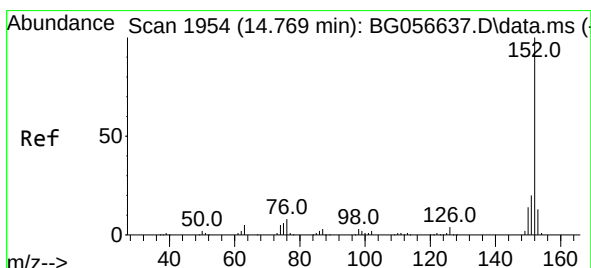
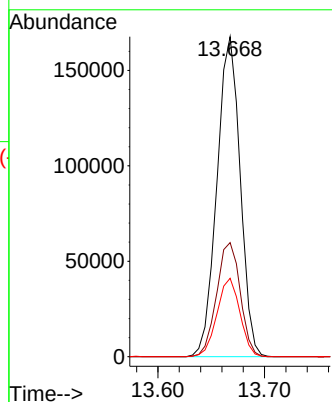
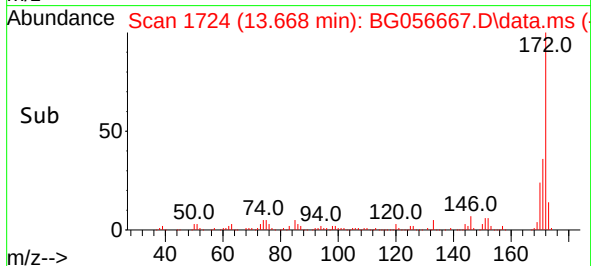


Tgt Ion:172 Resp: 253530
Ion Ratio Lower Upper
172 100
171 35.7 28.6 43.0
170 24.5 19.4 29.0

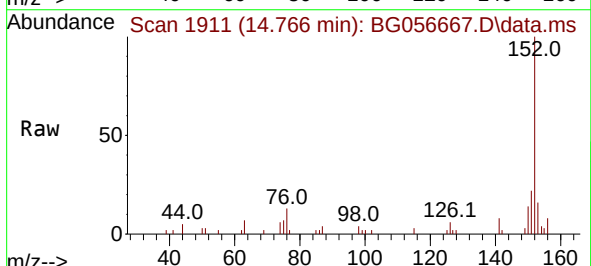
Manual Integrations

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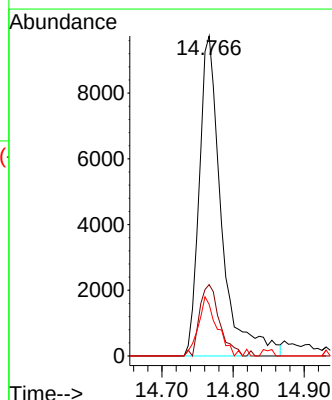
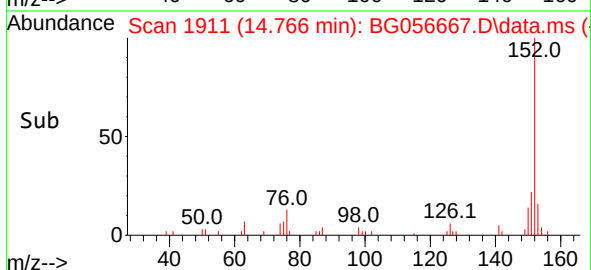
Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023

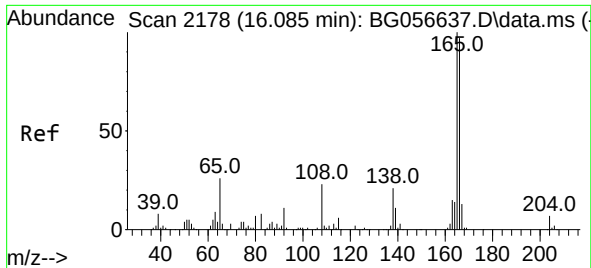


#49
Acenaphthylene
Concen: 3.993 ng
RT: 14.766 min Scan# 1911
Delta R.T. -0.002 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35



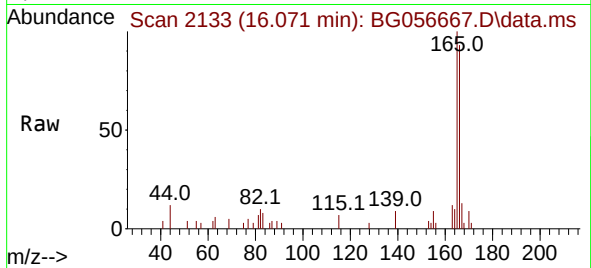
Tgt Ion:152 Resp: 21104
Ion Ratio Lower Upper
152 100
151 22.3 15.6 23.4
153 16.1 10.3 15.5#





#58
Fluorene
Concen: 2.312 ng
RT: 16.071 min Scan# 2178
Delta R.T. -0.014 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

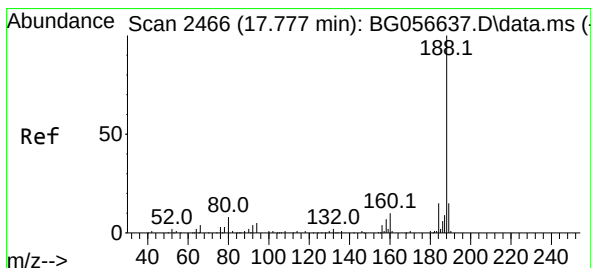
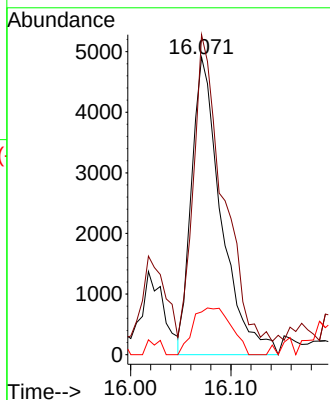
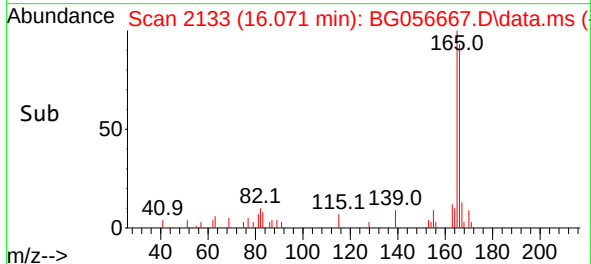
Instrument :
BNA_G
ClientSampleId :
WASTE



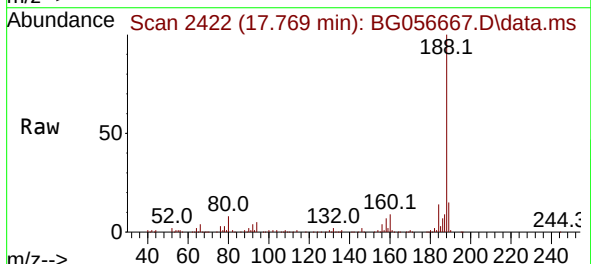
Tgt Ion:166 Resp: 10069
Ion Ratio Lower Upper
166 100
165 107.6 82.9 124.3
167 14.3 11.1 16.7

Manual Integrations
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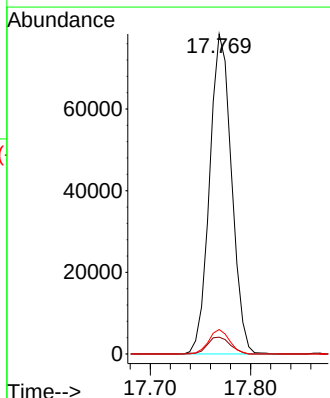
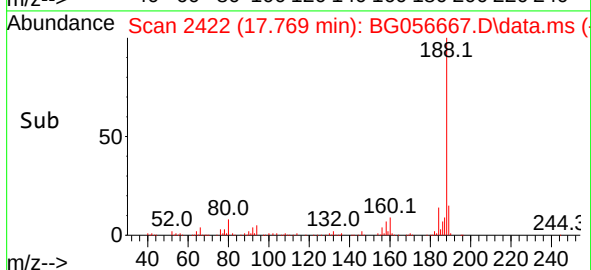
Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023

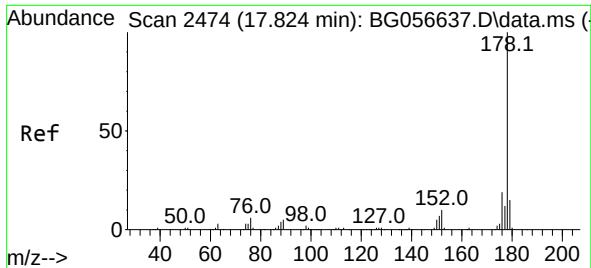


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.769 min Scan# 2422
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35



Tgt Ion:188 Resp: 119161
Ion Ratio Lower Upper
188 100
94 5.2 4.0 6.0
80 7.6 6.3 9.5





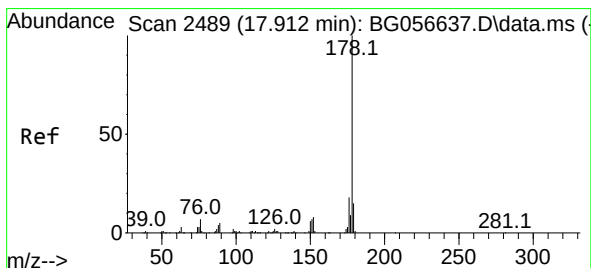
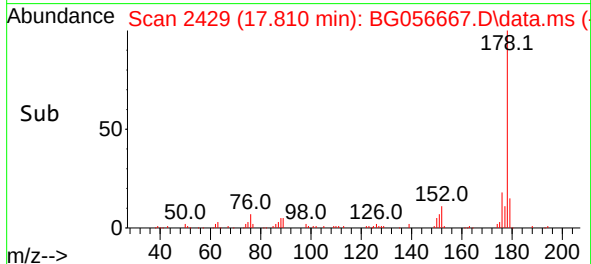
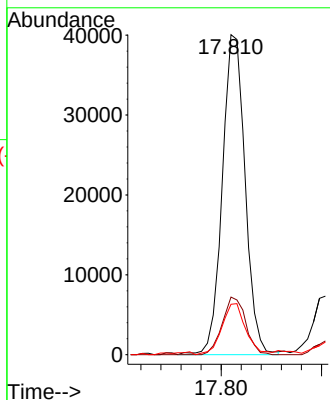
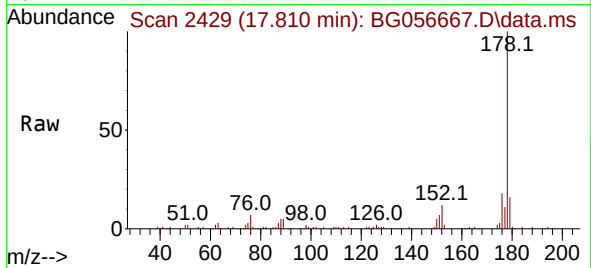
#71
Phenanthrene
Concen: 9.758 ng
RT: 17.810 min Scan# 2445
Delta R.T. -0.014 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Instrument :
BNA_G
ClientSampleId :
WASTE

Tgt Ion:178 Resp: 63262
Ion Ratio Lower Upper
178 100
176 18.0 15.4 23.2
179 15.8 12.2 18.4

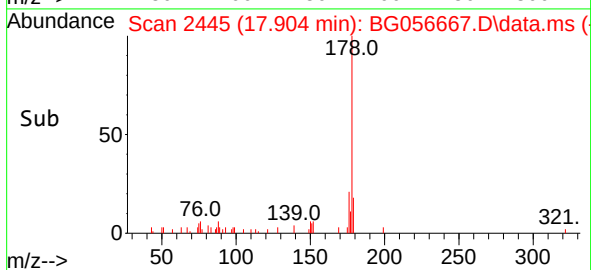
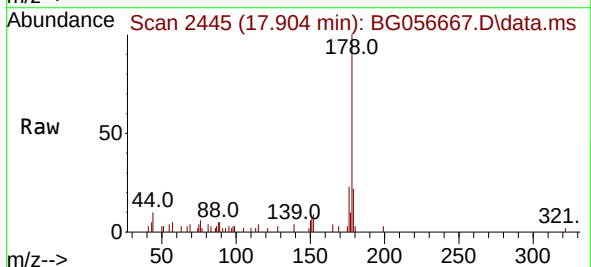
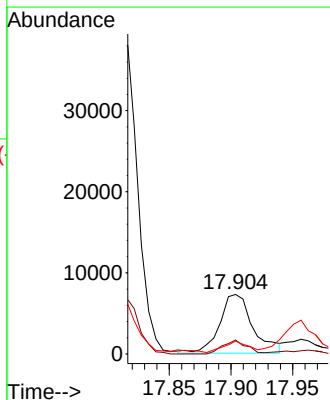
Manual Integrations
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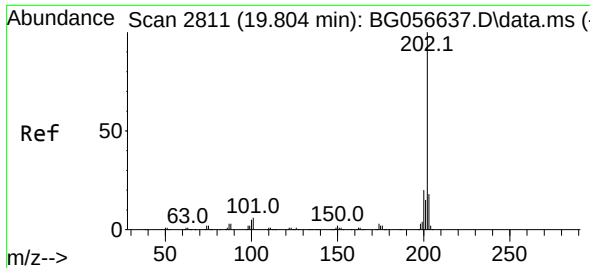
Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023



#72
Anthracene
Concen: 2.052 ng m
RT: 17.904 min Scan# 2445
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

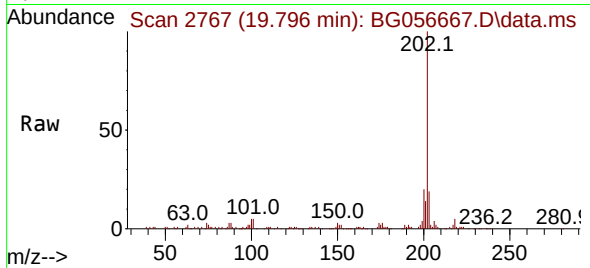
Tgt Ion:178 Resp: 13609
Ion Ratio Lower Upper
178 100
176 23.4 14.3 21.5#
179 21.6 12.2 18.4#





#75
Fluoranthene
Concen: 11.177 ng
RT: 19.796 min Scan# 21
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

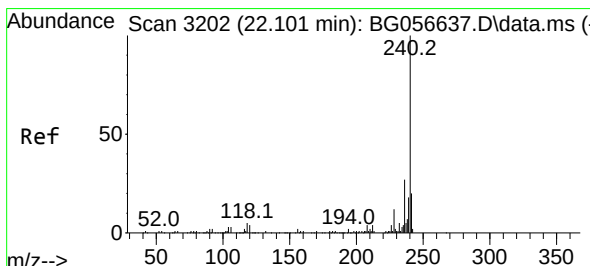
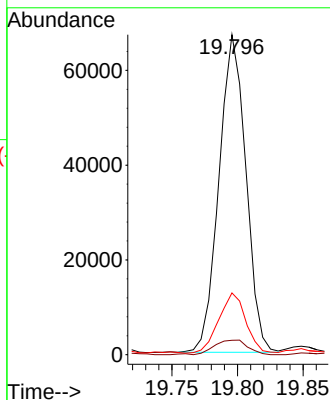
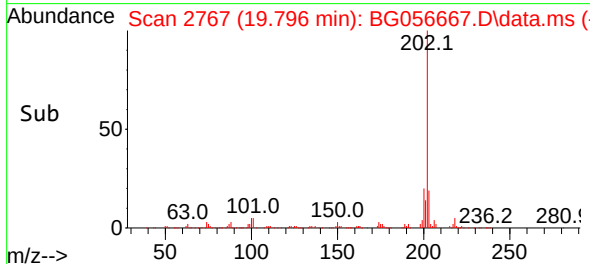
Instrument :
BNA_G
ClientSampleId :
WASTE



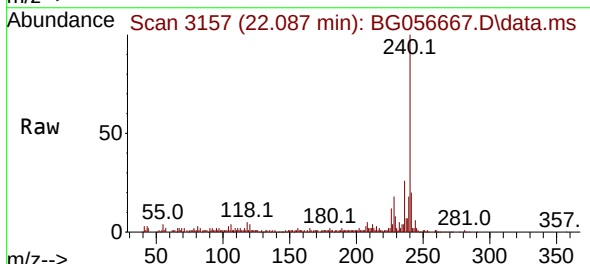
Tgt Ion:202 Resp: 9561
Ion Ratio Lower Upper
202 100
101 4.5 0.0 25.8
203 19.3 0.0 37.6

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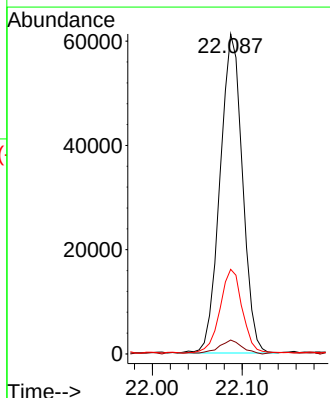
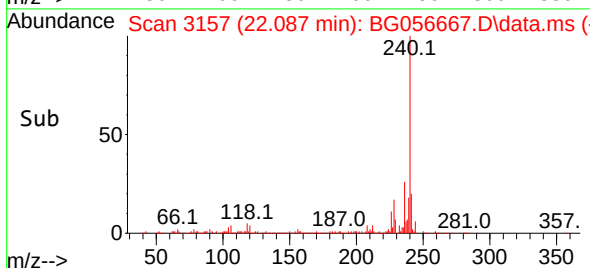
Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023

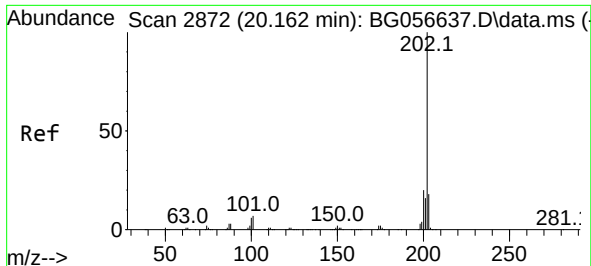


#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.087 min Scan# 3157
Delta R.T. -0.014 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35



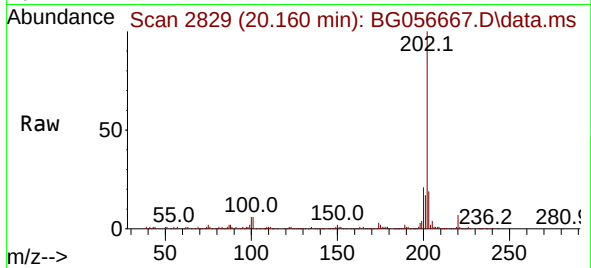
Tgt Ion:240 Resp: 106218
Ion Ratio Lower Upper
240 100
120 4.4 3.5 5.3
236 26.4 21.5 32.3





#78
 Pyrene
 Concen: 20.480 ng
 RT: 20.160 min Scan# 2872
 Delta R.T. -0.002 min
 Lab File: BG056667.D
 Acq: 17 Feb 2023 22:35

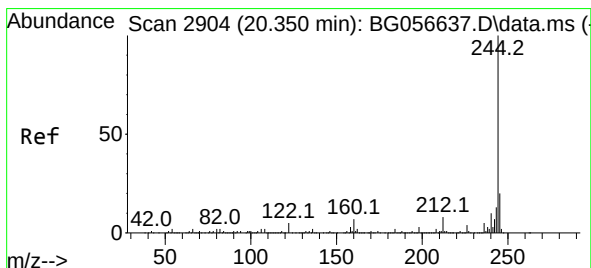
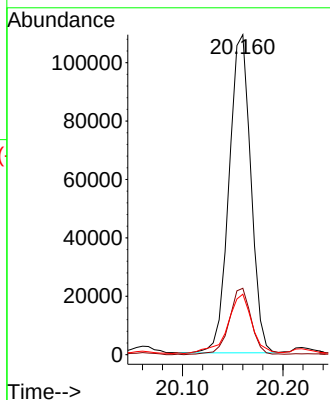
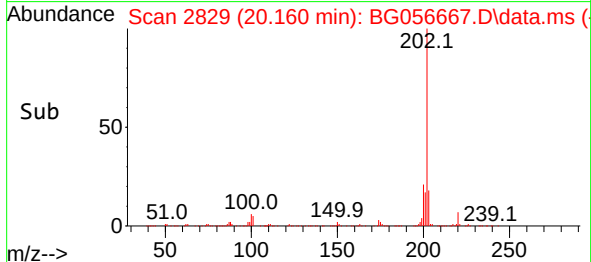
Instrument :
 BNA_G
 ClientSampleId :
 WASTE



Tgt Ion:202 Resp: 164280
 Ion Ratio Lower Upper
 202 100
 200 20.8 15.8 23.8
 203 18.9 14.2 21.4

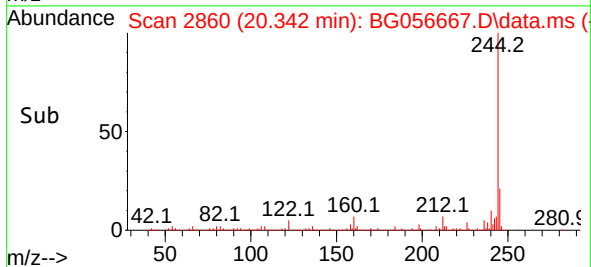
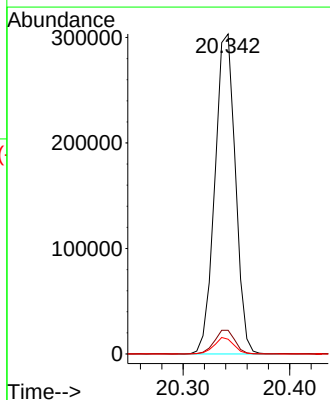
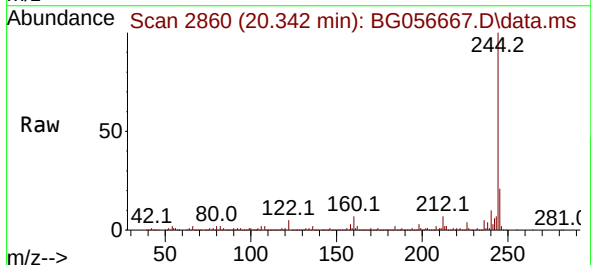
Manual Integrations
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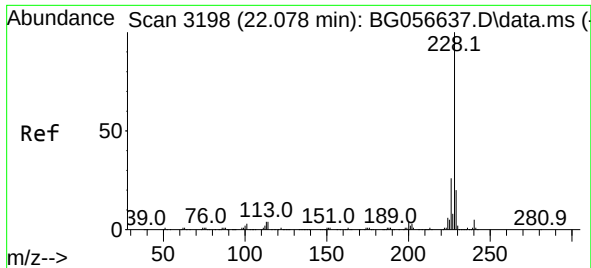
Reviewed By :Yogesh Patel 02/18/2023
 Supervised By :mohammad ahmed 02/20/2023



#79
 Terphenyl-d14
 Concen: 62.304 ng
 RT: 20.342 min Scan# 2860
 Delta R.T. -0.008 min
 Lab File: BG056667.D
 Acq: 17 Feb 2023 22:35

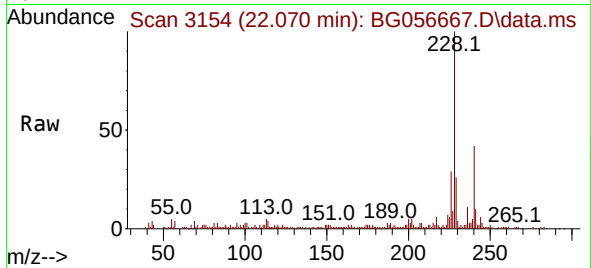
Tgt Ion:244 Resp: 404482
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.0 9.0
 122 4.6 3.8 5.8





#81
Benzo(a)anthracene
Concen: 9.900 ng
RT: 22.070 min Scan# 3198
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

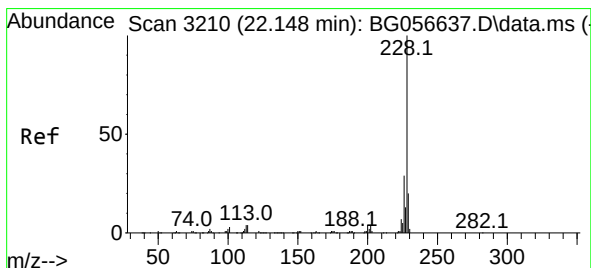
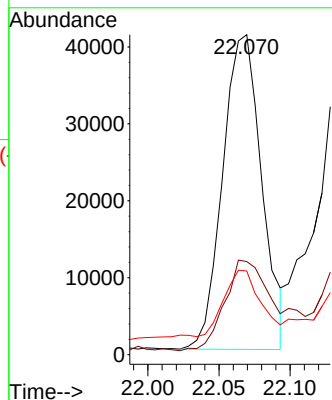
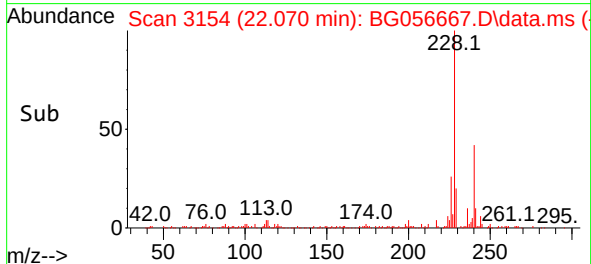
Instrument :
BNA_G
ClientSampleId :
WASTE



Tgt Ion:228 Resp: 7820
Ion Ratio Lower Upper
228 100
226 29.1 20.4 30.6
229 26.1 16.0 24.0

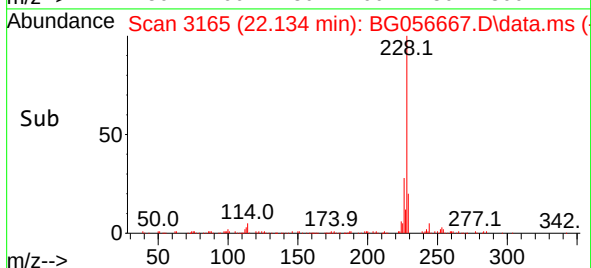
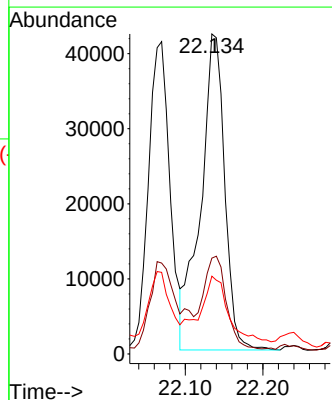
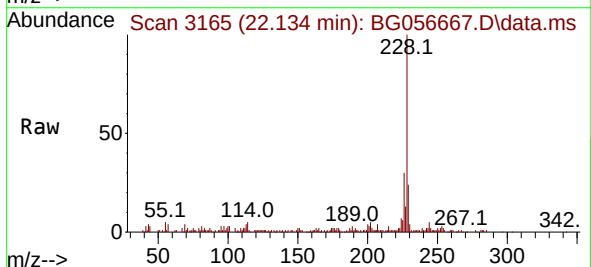
Manual Integrations
APPROVED

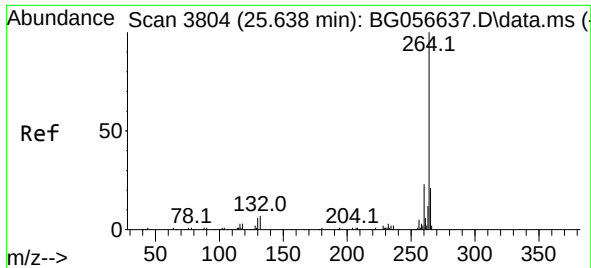
Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023



#83
Chrysene
Concen: 12.291 ng
RT: 22.134 min Scan# 3165
Delta R.T. -0.014 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Tgt Ion:228 Resp: 90766
Ion Ratio Lower Upper
228 100
226 29.9 23.0 34.6
229 24.3 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.630 min Scan# 31
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Instrument :

BNA_G

ClientSampleId :

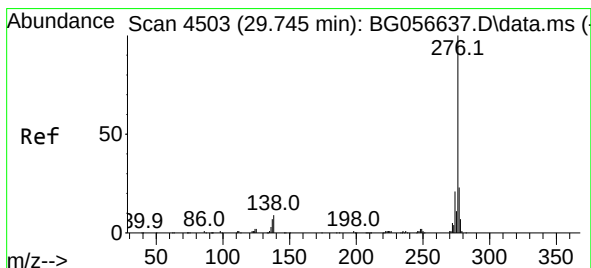
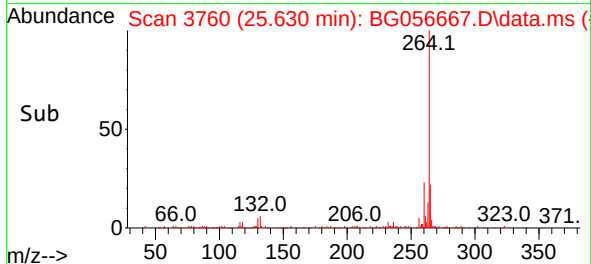
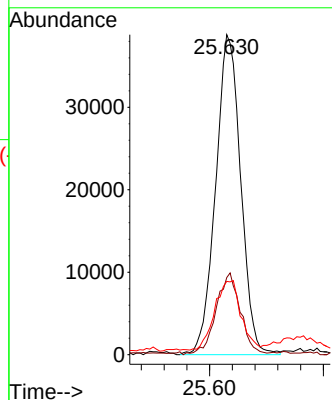
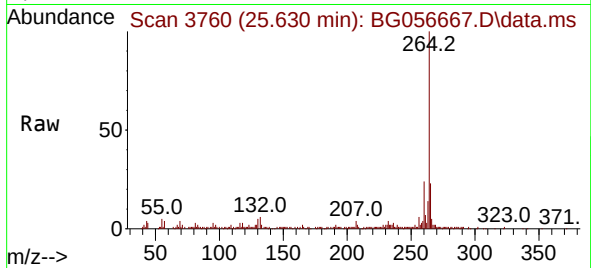
WASTE

Tgt Ion:264 Resp: 118960
Ion Ratio Lower Upper
264 100
260 24.1 18.6 27.8
265 22.9 17.0 25.4

Manual Integrations

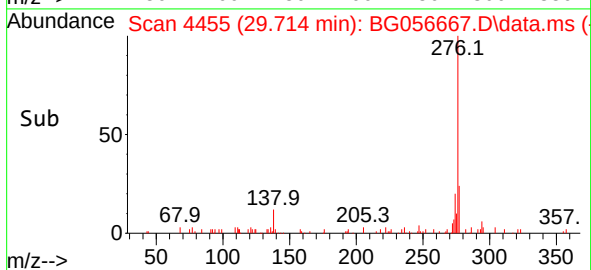
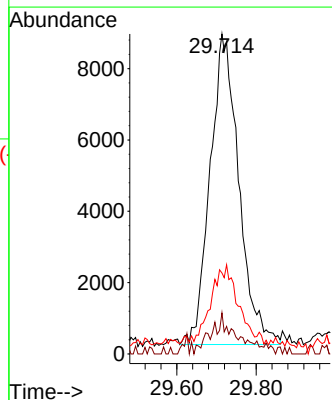
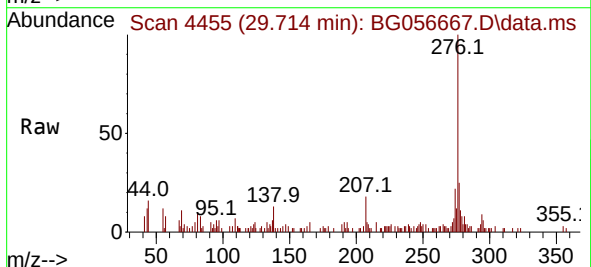
APPROVED

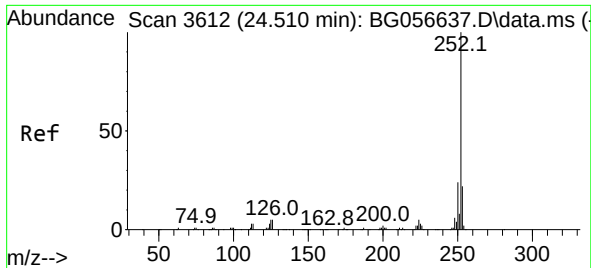
Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.699 ng
RT: 29.714 min Scan# 4455
Delta R.T. -0.032 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

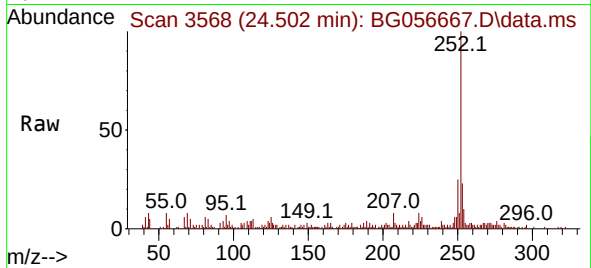
Tgt Ion:276 Resp: 43780
Ion Ratio Lower Upper
276 100
138 4.9 3.8 5.8
277 11.4 20.3 30.5#





#88
Benzo(b)fluoranthene
Concen: 10.743 ng
RT: 24.502 min Scan# 3568
Delta R.T. -0.008 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

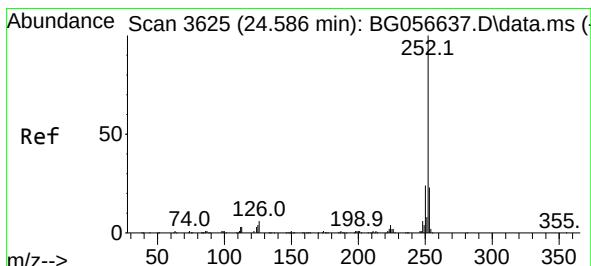
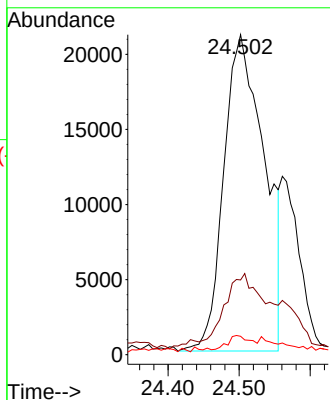
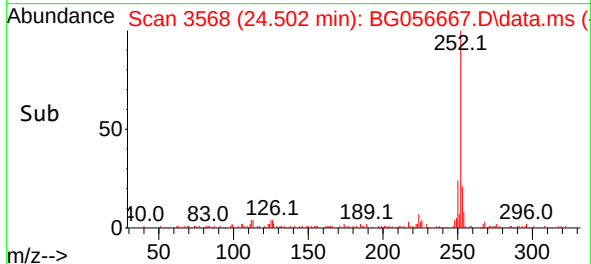
Instrument :
BNA_G
ClientSampleId :
WASTE



Tgt Ion:252 Resp: 83492
Ion Ratio Lower Upper
252 100
253 23.3 17.3 25.9
125 5.8 3.7 5.5

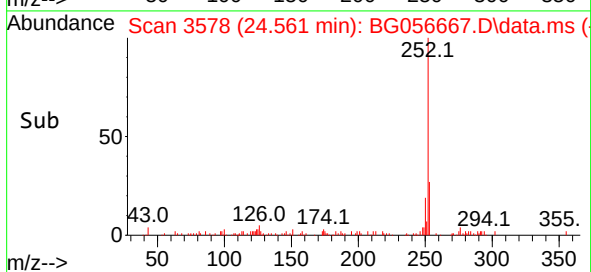
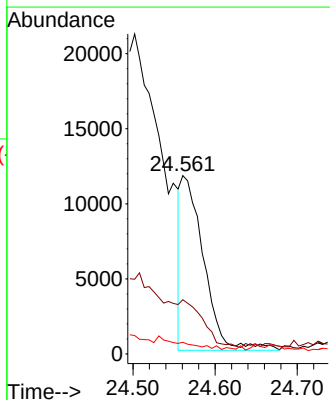
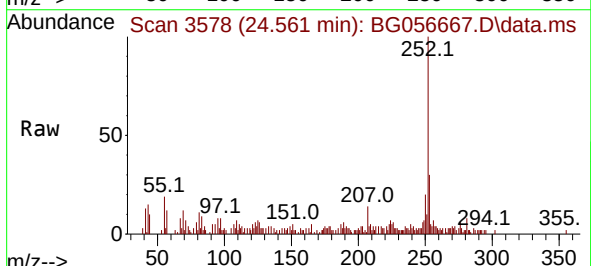
Manual Integrations
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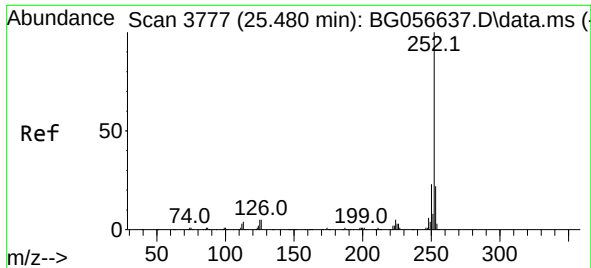
Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023



#89
Benzo(k)fluoranthene
Concen: 2.913 ng m
RT: 24.561 min Scan# 3578
Delta R.T. -0.026 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Tgt Ion:252 Resp: 22263
Ion Ratio Lower Upper
252 100
253 30.5 18.5 27.7#
125 6.5 3.4 5.0#





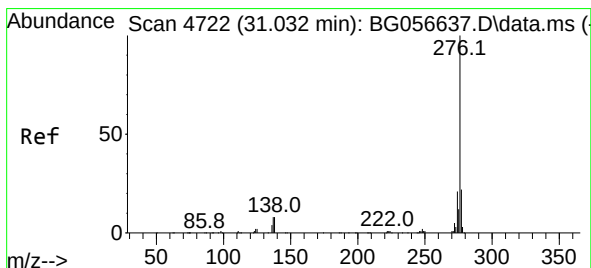
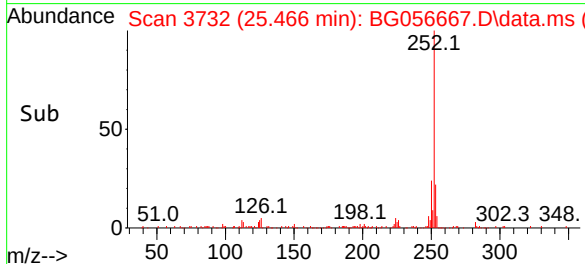
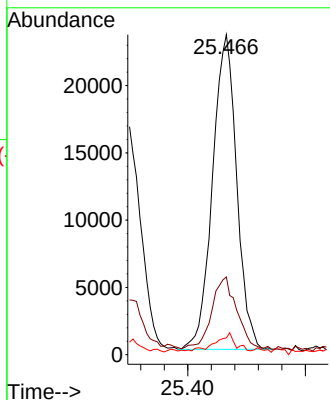
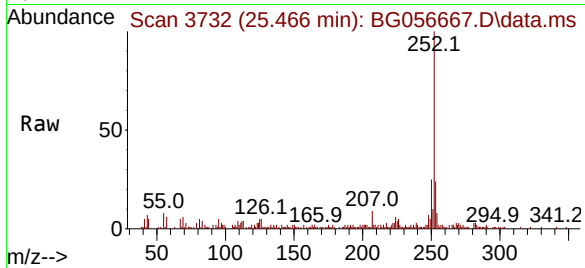
#90
Benzo(a)pyrene
Concen: 8.911 ng
RT: 25.466 min Scan# 31
Delta R.T. -0.014 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Instrument :
BNA_G
ClientSampleId :
WASTE

Tgt Ion:252 Resp: 6656
Ion Ratio Lower Upper
252 100
253 24.3 17.9 26.9
125 5.2 4.0 6.0

Manual Integrations
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Reviewed By :Yogesh Patel 02/18/2023
Supervised By :mohammad ahmed 02/20/2023



#92
Benzo(g,h,i)perylene
Concen: 6.317 ng
RT: 31.000 min Scan# 4674
Delta R.T. -0.032 min
Lab File: BG056667.D
Acq: 17 Feb 2023 22:35

Tgt Ion:276 Resp: 47625
Ion Ratio Lower Upper
276 100
277 24.6 17.5 26.3
138 7.8 6.4 9.6

