

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052523\
 Data File : BG057571.D
 Acq On : 26 May 2023 00:01
 Operator : CG/JU
 Sample : 02940-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RBR-251671

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/26/2023
 Supervised By : Jagrut Upadhyay 05/26/2023

Quant Time: May 26 03:02:40 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 02:58:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.349	152	27687	20.000	ng	0.00
21) Naphthalene-d8	11.186	136	110998	20.000	ng	0.00
39) Acenaphthene-d10	14.969	164	75708	20.000	ng	0.00
64) Phenanthrene-d10	17.707	188	164680	20.000	ng	0.00
76) Chrysene-d12	22.013	240	142983	20.000	ng	0.00
86) Perylene-d12	25.520	264	154431	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.870	112	100041	61.809	ng	0.00
7) Phenol-d6	7.497	99	154706	62.944	ng	0.00
23) Nitrobenzene-d5	9.529	82	103679	39.203	ng	0.00
42) 2,4,6-Tribromophenol	16.450	330	62750	58.415	ng	0.00
45) 2-Fluorobiphenyl	13.589	172	250061	44.484	ng	0.00
79) Terphenyl-d14	20.274	244	388151	44.301	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	15.028	154	13341	3.146	ng	96
58) Fluorene	16.009	166	17057	2.906	ng	93
71) Phenanthrene	17.748	178	233965	27.726	ng	100
72) Anthracene	17.842	178	58505	6.757	ng	99
73) Carbazole	18.106	167	26121	3.583	ng	99
75) Fluoranthene	19.739	202	433663	41.320	ng	98
78) Pyrene	20.103	202	365185	35.148	ng	98
81) Benzo(a)anthracene	21.995	228	192938	18.940	ng	97
83) Chrysene	22.065	228	197606m	20.617	ng	
87) Indeno(1,2,3-cd)pyrene	29.567	276	106586	9.470	ng	98
88) Benzo(b)fluoranthene	24.398	252	249716	24.736	ng	# 97
89) Benzo(k)fluoranthene	24.456	252	100152m	9.763	ng	
90) Benzo(a)pyrene	25.349	252	169364	17.173	ng	98
91) Dibenzo(a,h)anthracene	29.591	278	27513	2.935	ng	# 94
92) Benzo(g,h,i)perylene	30.842	276	105575	11.535	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052523\
Data File : BG057571.D
Acq On : 26 May 2023 00:01
Operator : CG/JU
Sample : 02940-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

RBR-251671

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 05/26/2023
Supervised By : Jagrut Upadhyay 05/26/2023

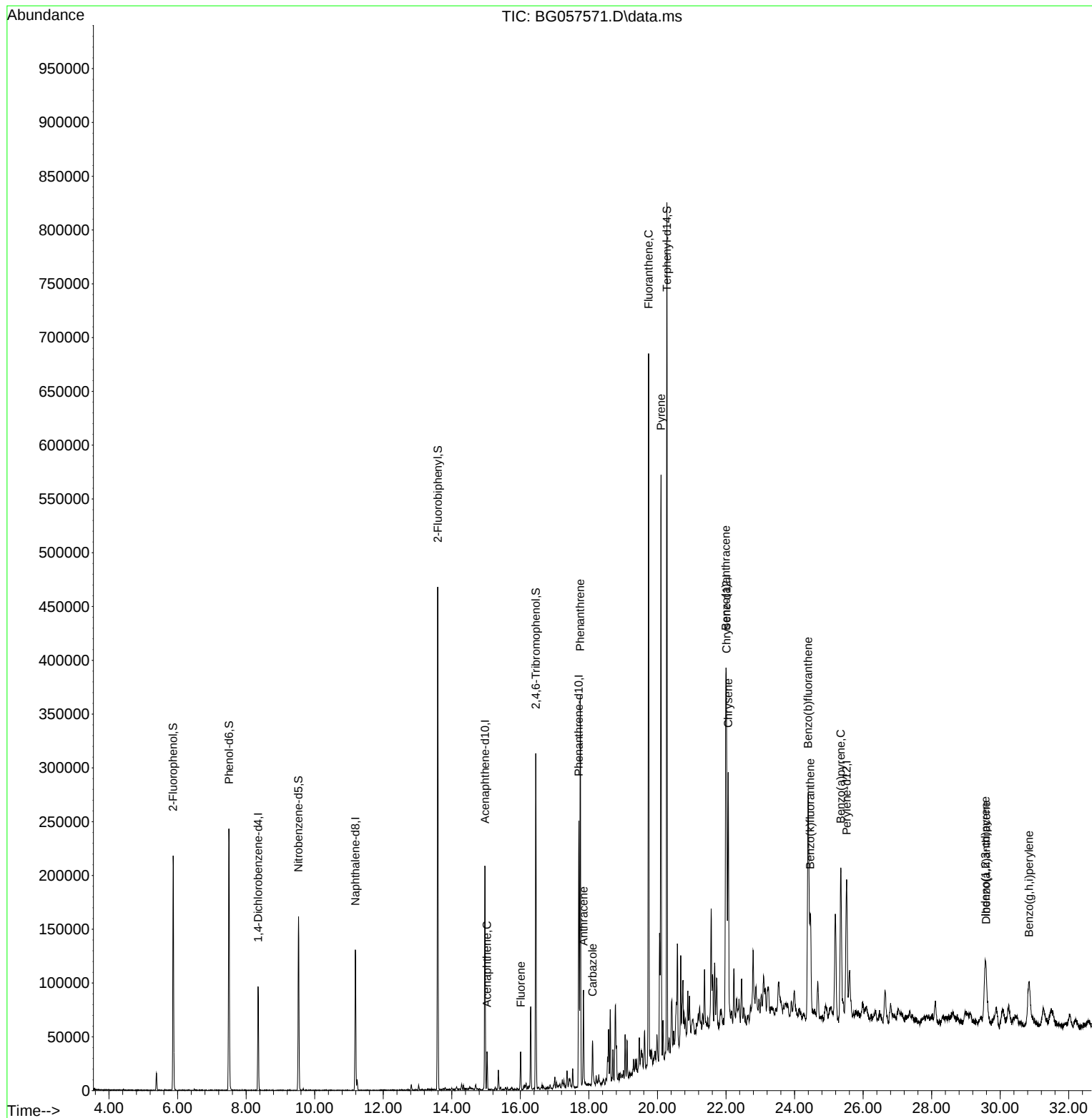
Quant Time: May 26 03:02:40 2023

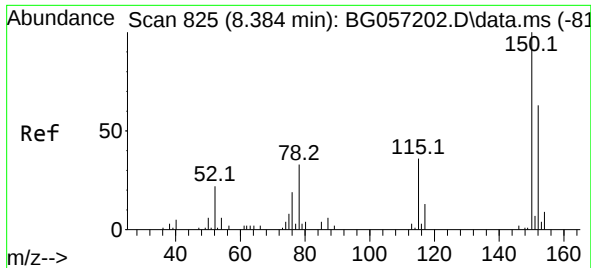
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri May 26 02:58:05 2023

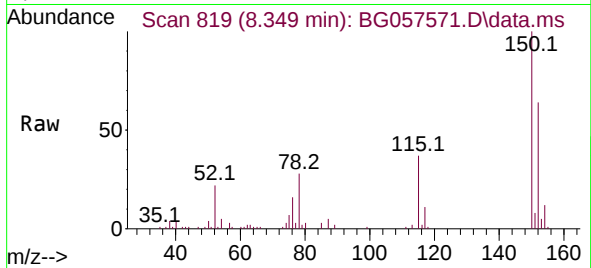
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.349 min Scan# 81
Delta R.T. -0.002 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

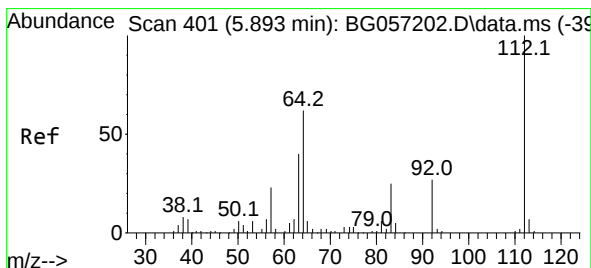
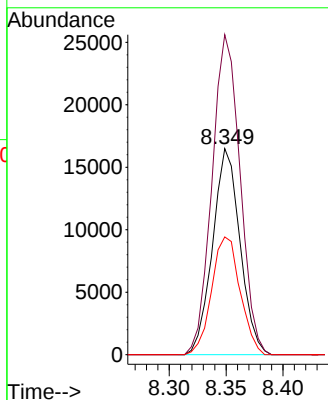
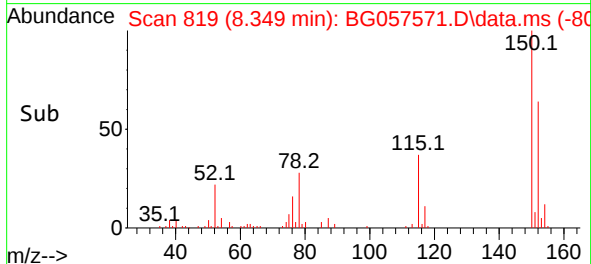
Instrument :
BNA_G
ClientSampleId :
RBR-251671



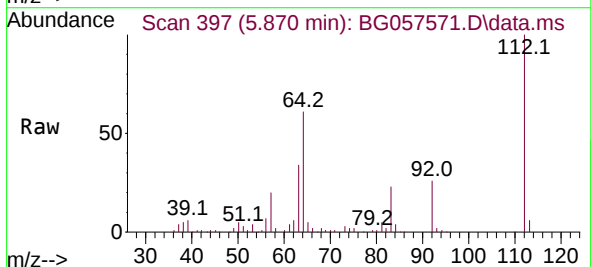
Tgt Ion:152 Resp: 2768
Ion Ratio Lower Upper
152 100
150 155.2 126.2 189.4
115 57.2 45.0 67.4

Manual Integrations
APPROVED

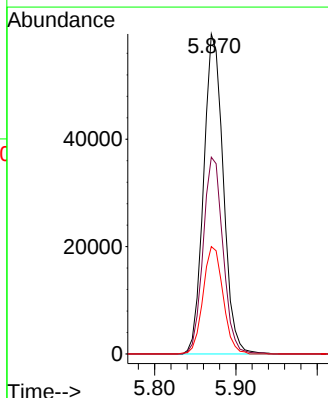
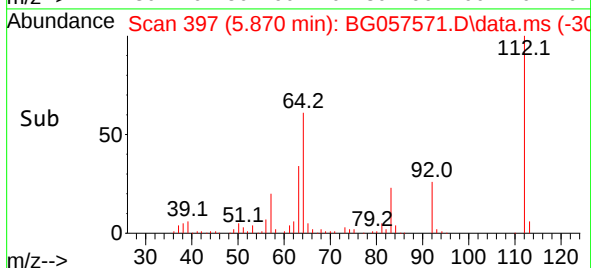
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023

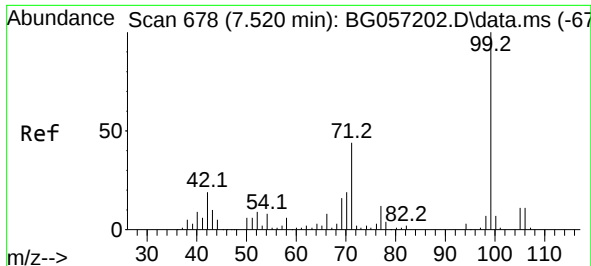


#5
2-Fluorophenol
Concen: 61.809 ng
RT: 5.870 min Scan# 397
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01



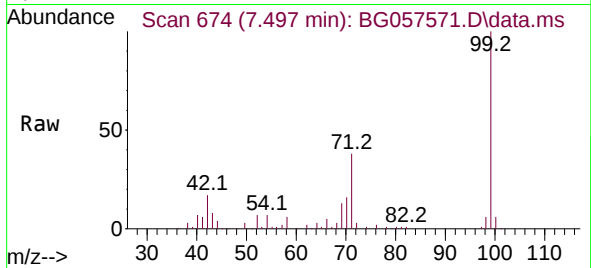
Tgt Ion:112 Resp: 100041
Ion Ratio Lower Upper
112 100
64 61.5 49.4 74.2
63 33.6 31.6 47.4





#7
Phenol-d6
Concen: 62.944 ng
RT: 7.497 min Scan# 61
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

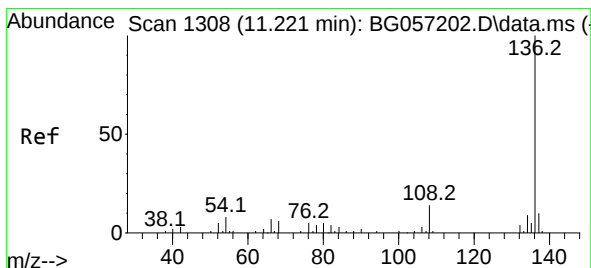
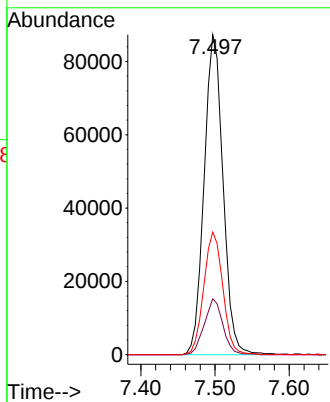
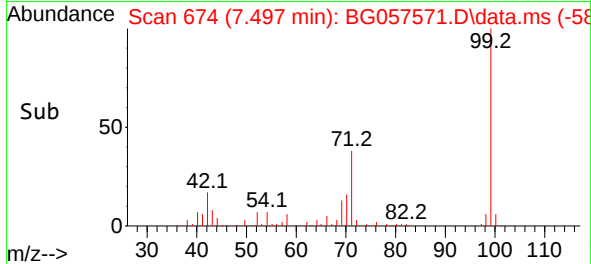
Instrument :
BNA_G
ClientSampleId :
RBR-251671



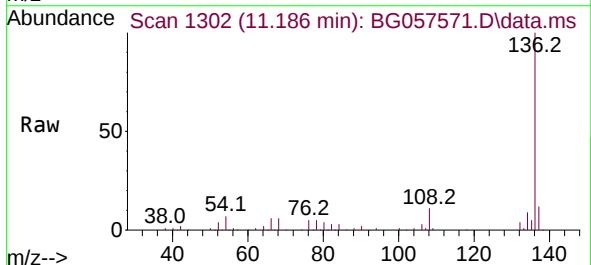
Tgt Ion: 99 Resp: 154700
Ion Ratio Lower Upper
99 100
42 17.5 15.1 22.7
71 38.3 35.2 52.8

Manual Integrations
APPROVED

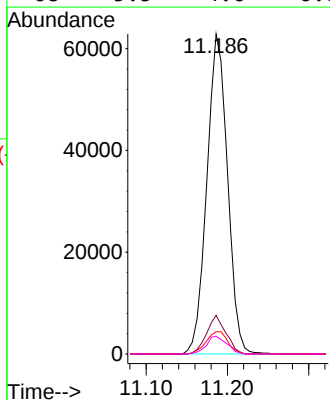
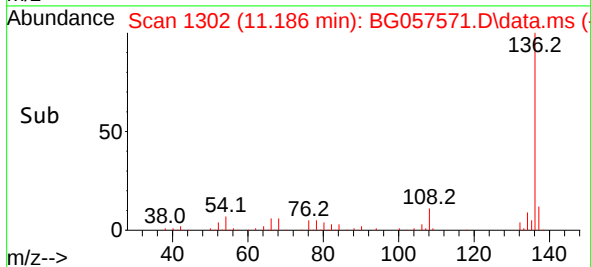
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023

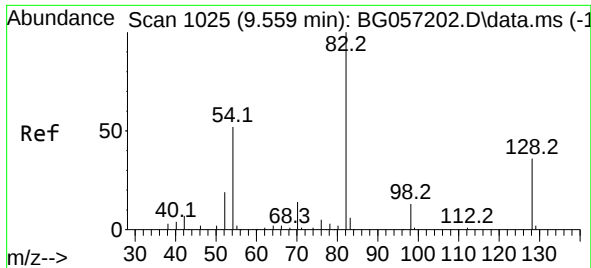


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.186 min Scan# 1302
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01



Tgt Ion:136 Resp: 110998
Ion Ratio Lower Upper
136 100
137 12.0 8.3 12.5
54 6.9 6.7 10.1
68 5.5 4.6 6.8





#23
Nitrobenzene-d5
Concen: 39.203 ng
RT: 9.529 min Scan# 1020
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

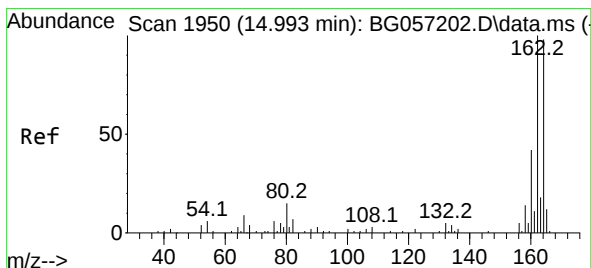
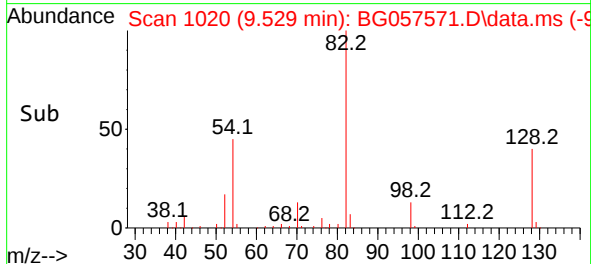
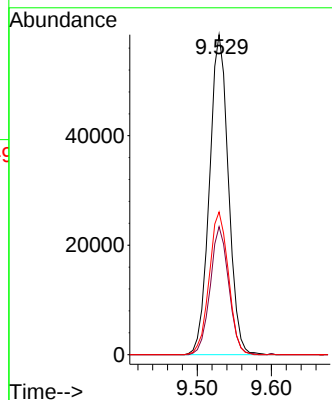
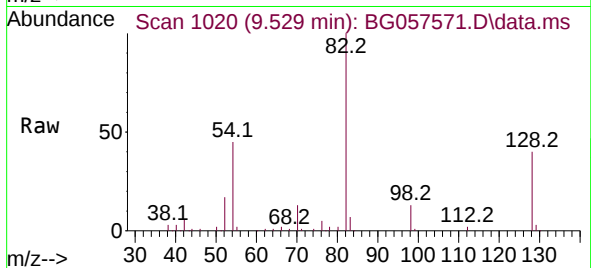
RBR-251671

Tgt Ion: 82 Resp: 103679
Ion Ratio Lower Upper
82 100
128 40.0 29.0 43.4
54 44.6 41.4 62.0

Manual Integrations

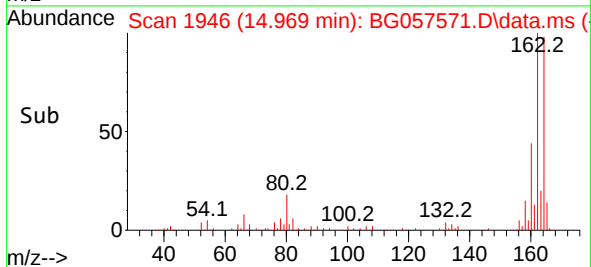
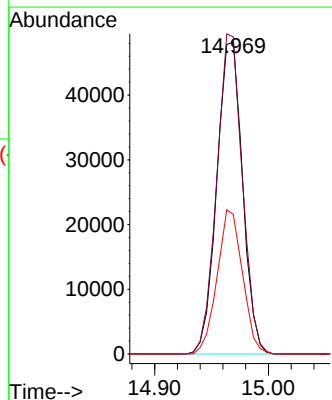
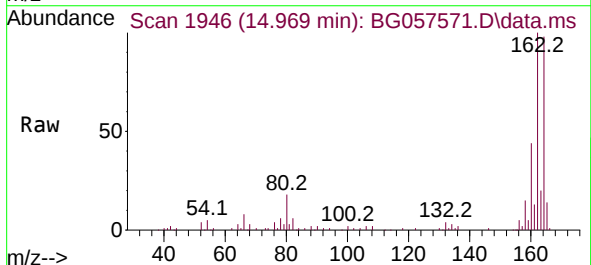
APPROVED

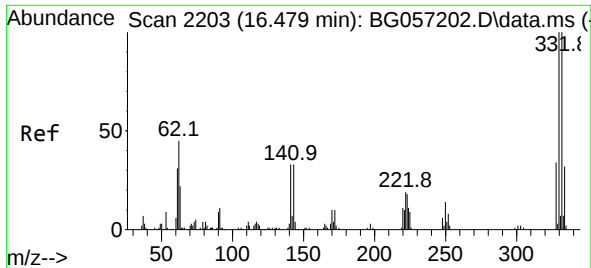
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.969 min Scan# 1946
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:164 Resp: 75708
Ion Ratio Lower Upper
164 100
162 101.6 81.8 122.6
160 44.7 34.6 52.0





#42
2,4,6-Tribromophenol
Concen: 58.415 ng
RT: 16.450 min Scan# 2198
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

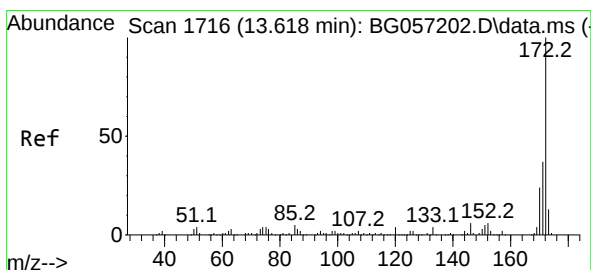
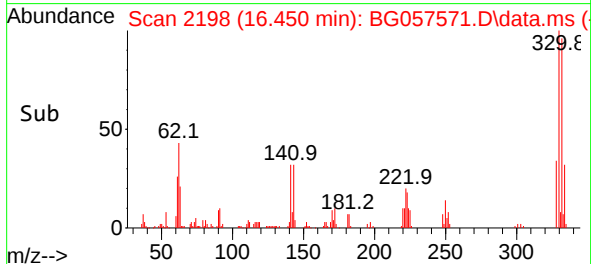
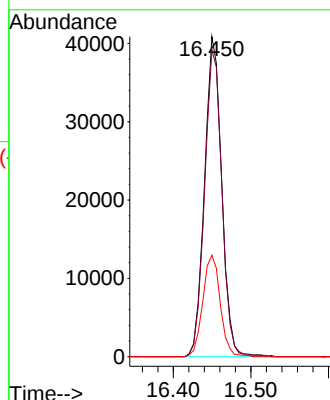
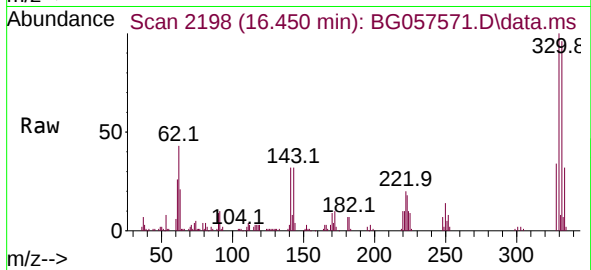
RBR-251671

Tgt Ion:330 Resp: 62750
Ion Ratio Lower Upper
330 100
332 96.7 78.2 117.2
141 32.2 27.8 41.8

Manual Integrations

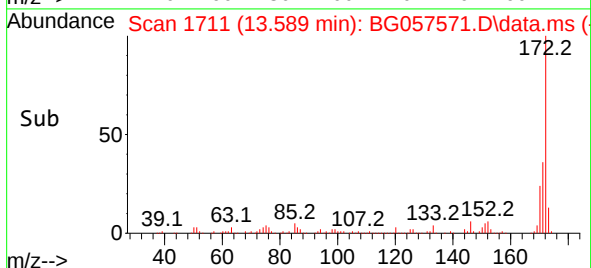
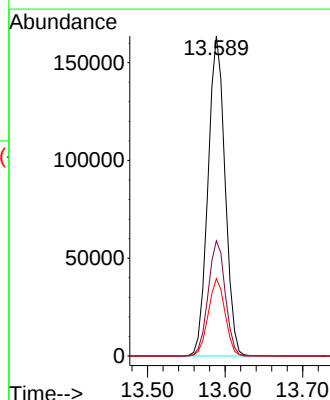
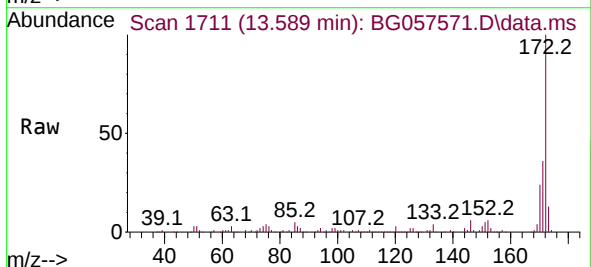
APPROVED

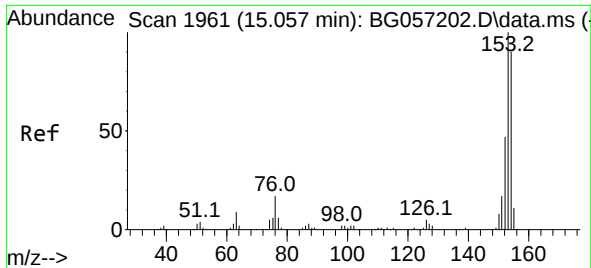
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023



#45
2-Fluorobiphenyl
Concen: 44.484 ng
RT: 13.589 min Scan# 1711
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

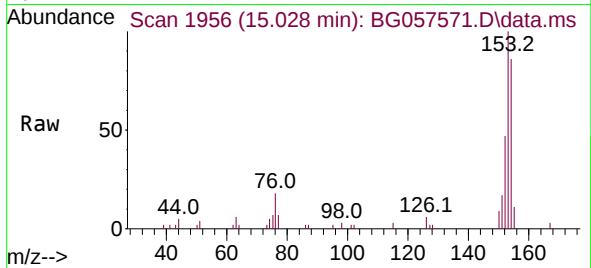
Tgt Ion:172 Resp: 250061
Ion Ratio Lower Upper
172 100
171 36.0 29.4 44.0
170 24.2 19.0 28.6





#52
Acenaphthene
Concen: 3.146 ng
RT: 15.028 min Scan# 1961
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

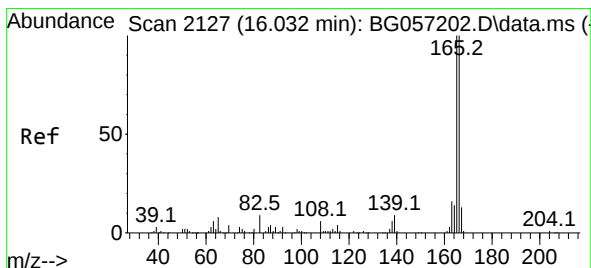
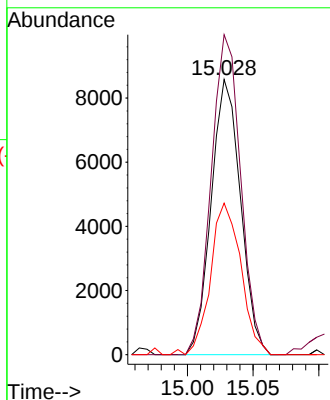
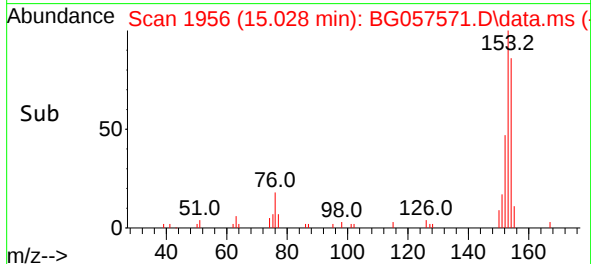
Instrument :
BNA_G
ClientSampleId :
RBR-251671



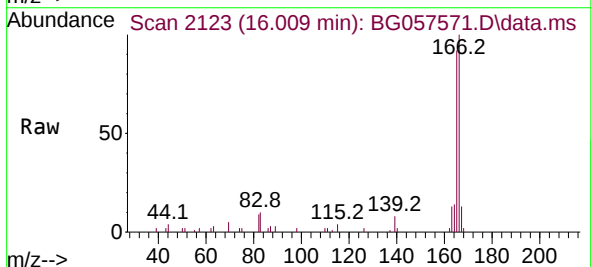
Tgt Ion:154 Resp: 1334
Ion Ratio Lower Upper
154 100
153 116.3 89.3 133.9
152 55.1 41.7 62.5

Manual Integrations
APPROVED

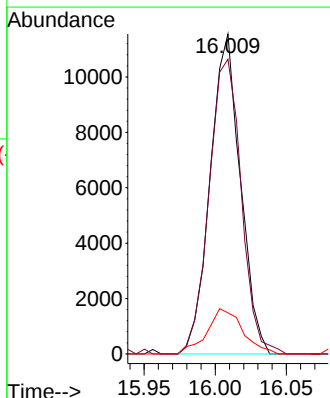
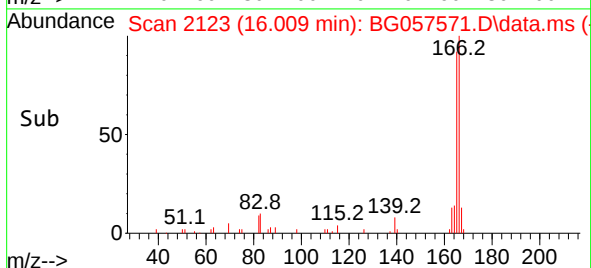
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023

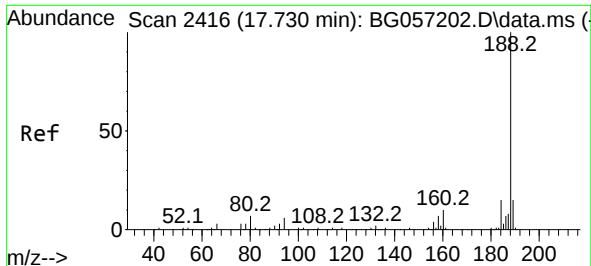


#58
Fluorene
Concen: 2.906 ng
RT: 16.009 min Scan# 2123
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01



Tgt Ion:166 Resp: 17057
Ion Ratio Lower Upper
166 100
165 92.1 80.1 120.1
167 12.9 10.2 15.2





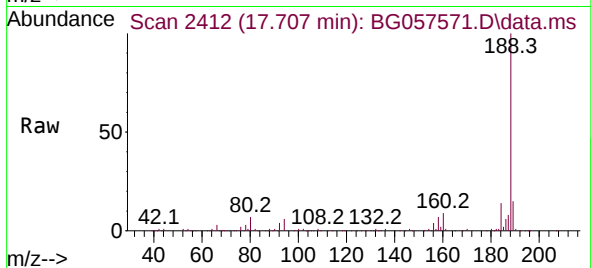
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.707 min Scan# 2416
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

RBR-251671

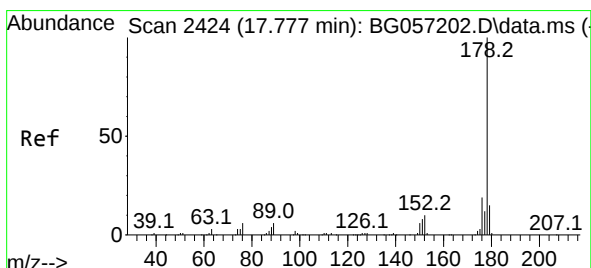
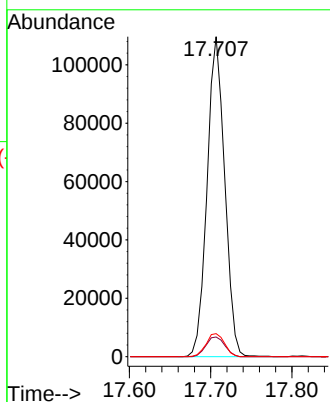
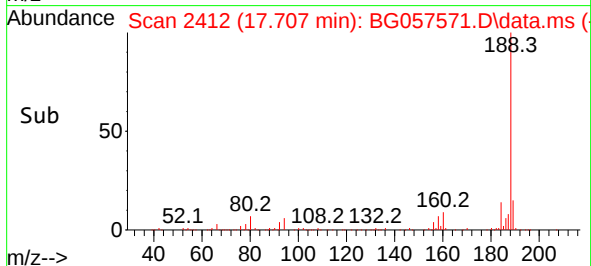


Tgt Ion:188 Resp: 164680
Ion Ratio Lower Upper
188 100
94 6.2 5.1 7.7
80 7.2 5.7 8.5

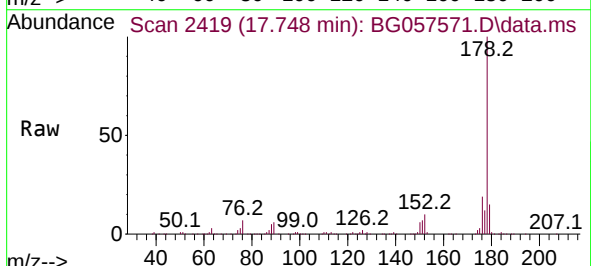
Manual Integrations

APPROVED

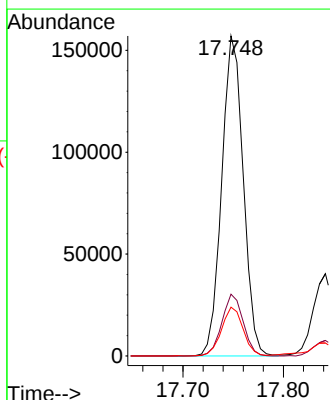
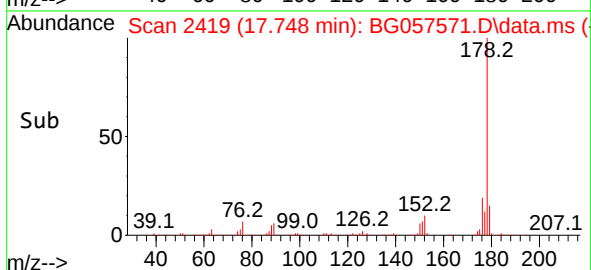
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023

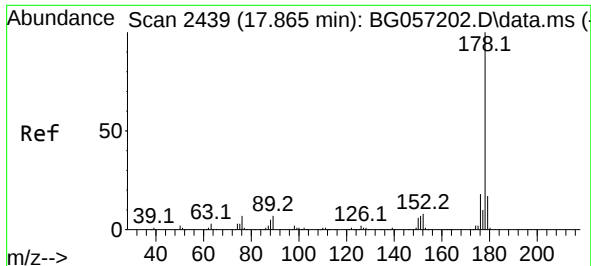


#71
Phenanthrene
Concen: 27.726 ng
RT: 17.748 min Scan# 2419
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01



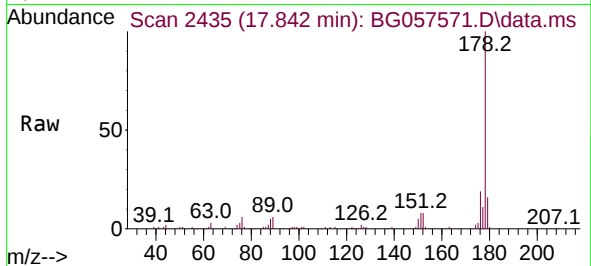
Tgt Ion:178 Resp: 233965
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.2 12.3 18.5





#72
 Anthracene
 Concen: 6.757 ng
 RT: 17.842 min Scan# 2435
 Delta R.T. -0.003 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

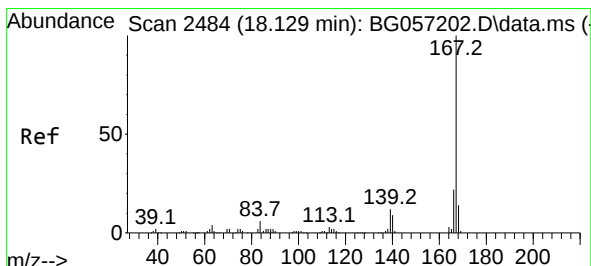
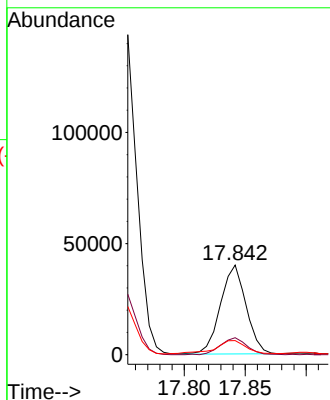
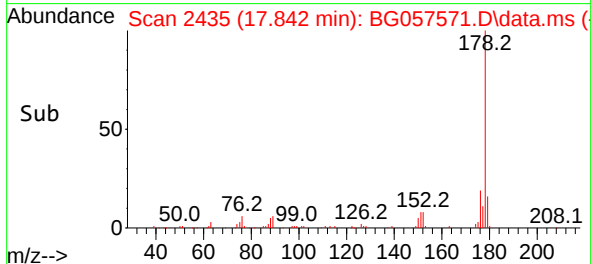
Instrument :
 BNA_G
 ClientSampleId :
 RBR-251671



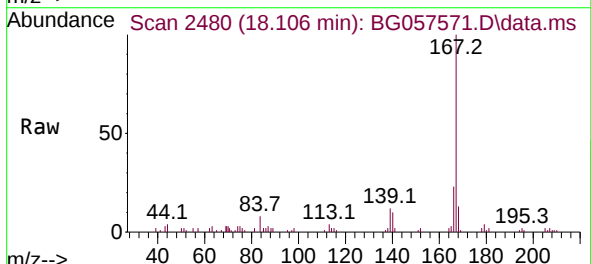
Tgt Ion:178 Resp: 5850
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.7 22.1
 179 15.7 13.2 19.8

Manual Integrations
 APPROVED

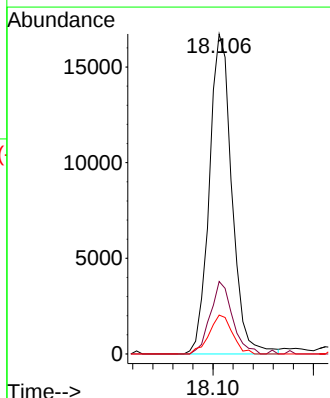
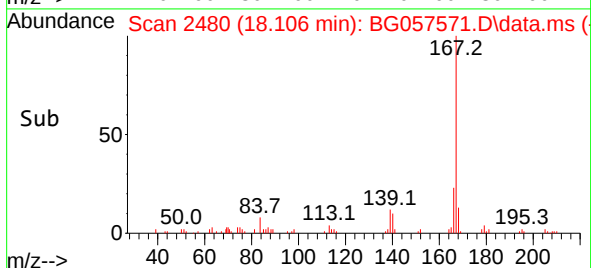
Reviewed By :Christian Giraldo 05/26/2023
 Supervised By :Jagrut Upadhyay 05/26/2023

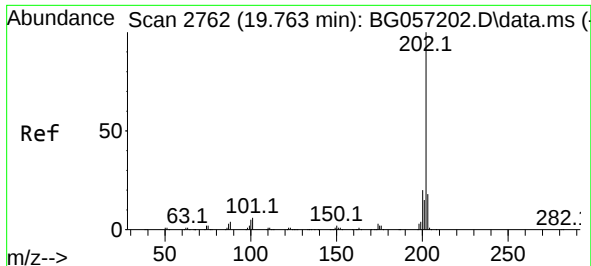


#73
 Carbazole
 Concen: 3.583 ng
 RT: 18.106 min Scan# 2480
 Delta R.T. -0.008 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01



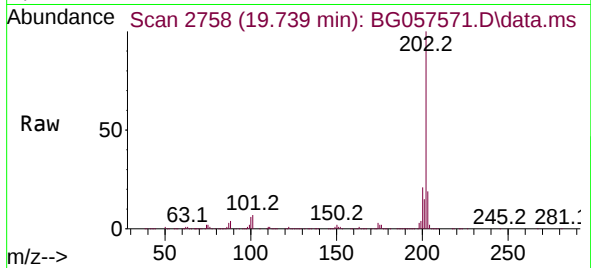
Tgt Ion:167 Resp: 26121
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.4 26.0
 139 12.1 9.6 14.4





#75
Fluoranthene
Concen: 41.320 ng
RT: 19.739 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

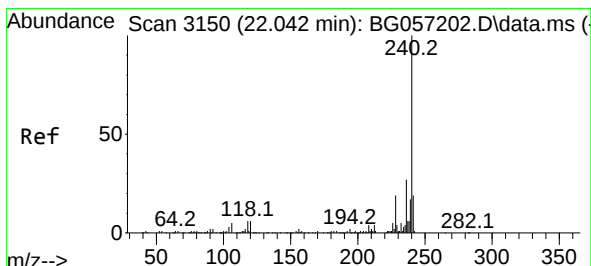
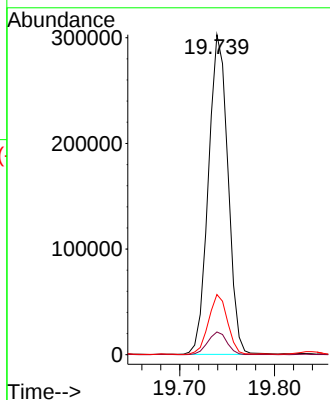
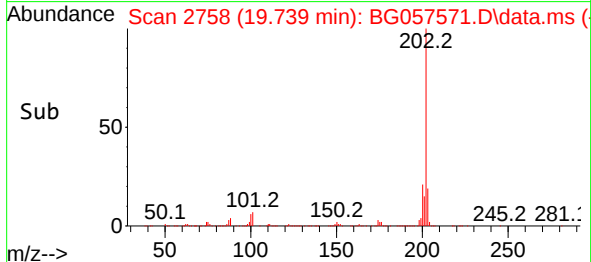
Instrument :
BNA_G
ClientSampleId :
RBR-251671



Tgt Ion:202 Resp: 43366
Ion Ratio Lower Upper
202 100
101 7.1 0.0 26.2
203 18.8 0.0 37.9

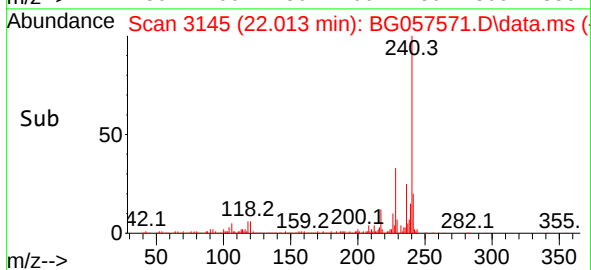
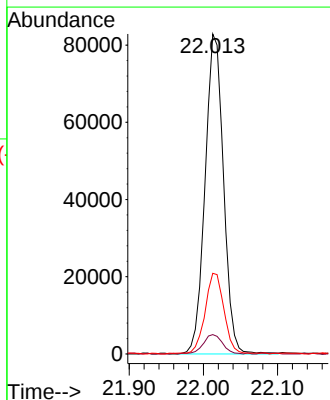
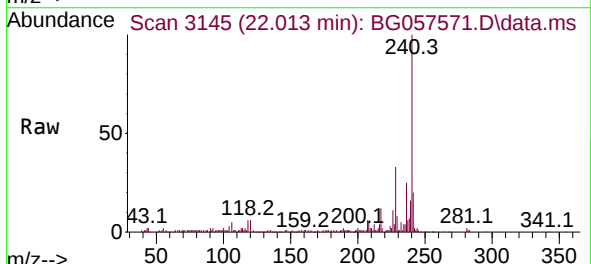
Manual Integrations
APPROVED

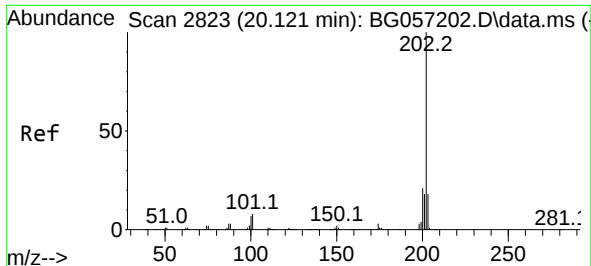
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.013 min Scan# 3145
Delta R.T. -0.008 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

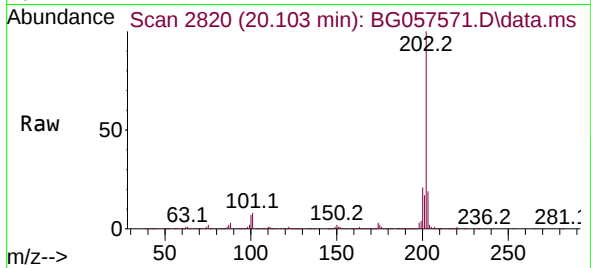
Tgt Ion:240 Resp: 142983
Ion Ratio Lower Upper
240 100
120 6.1 4.9 7.3
236 25.2 21.4 32.2





#78
 Pyrene
 Concen: 35.148 ng
 RT: 20.103 min Scan# 2820
 Delta R.T. -0.003 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

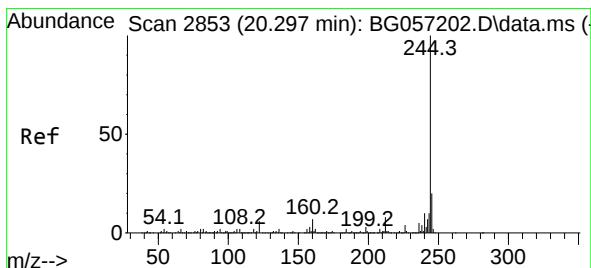
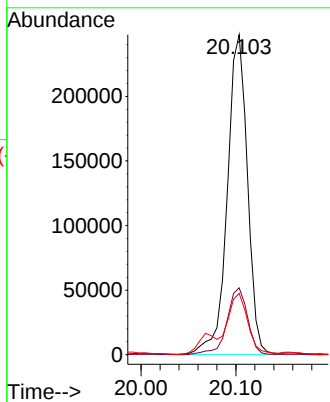
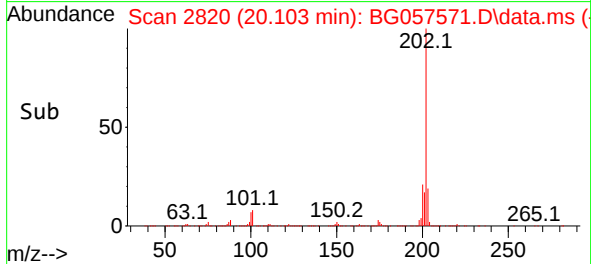
Instrument :
 BNA_G
 ClientSampleId :
 RBR-251671



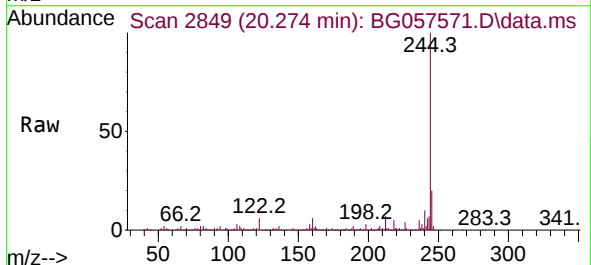
Tgt Ion:202 Resp: 36518
 Ion Ratio Lower Upper
 202 100
 200 20.9 17.0 25.4
 203 19.1 14.2 21.4

Manual Integrations
 APPROVED

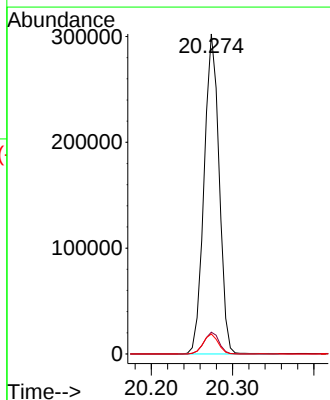
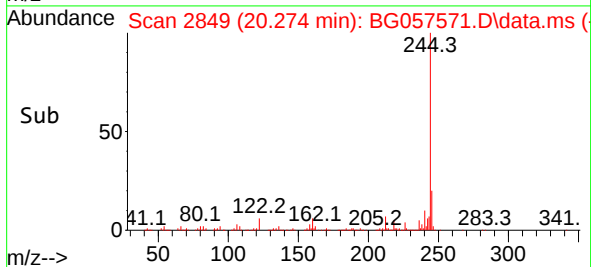
Reviewed By :Christian Giraldo 05/26/2023
 Supervised By :Jagrut Upadhyay 05/26/2023

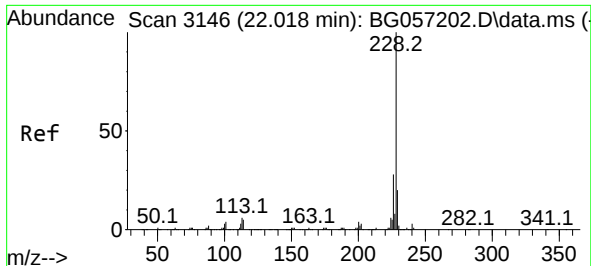


#79
 Terphenyl-d14
 Concen: 44.301 ng
 RT: 20.274 min Scan# 2849
 Delta R.T. -0.003 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01



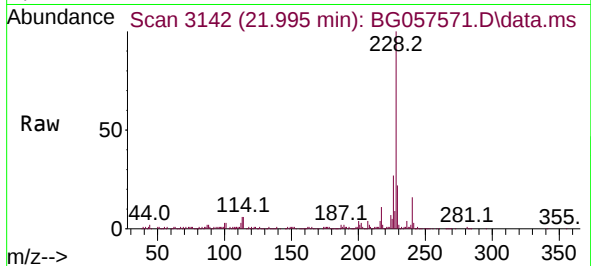
Tgt Ion:244 Resp: 388151
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.1 9.1
 122 6.3 5.1 7.7





#81
Benzo(a)anthracene
Concen: 18.940 ng
RT: 21.995 min Scan# 3142
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

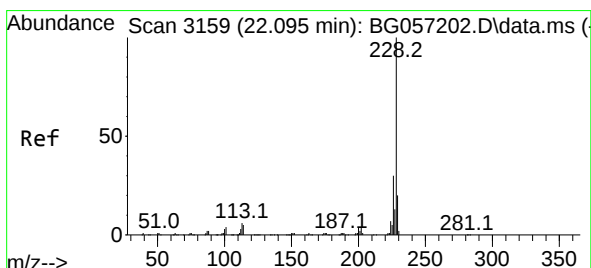
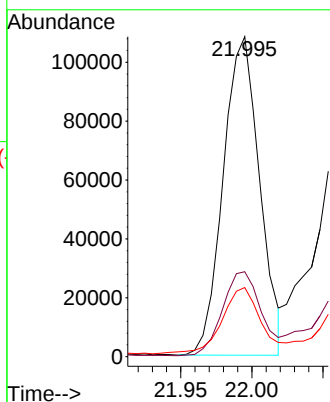
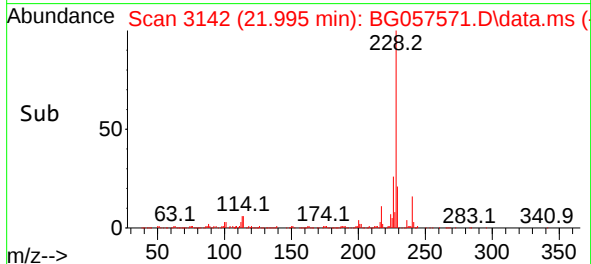
Instrument :
BNA_G
ClientSampleId :
RBR-251671



Tgt Ion:228 Resp: 192938
Ion Ratio Lower Upper
228 100
226 26.6 22.0 33.0
229 21.6 15.8 23.8

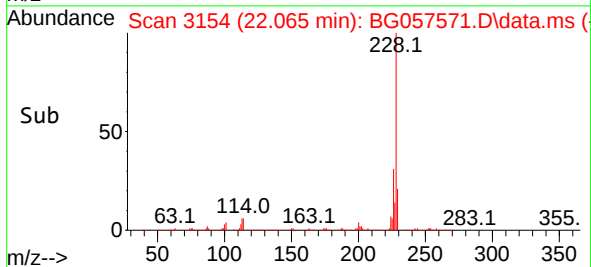
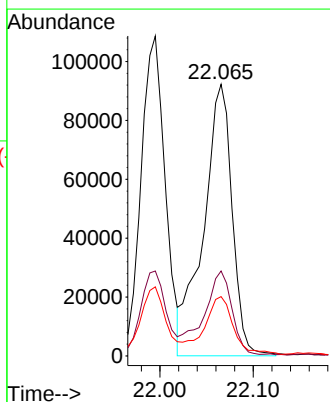
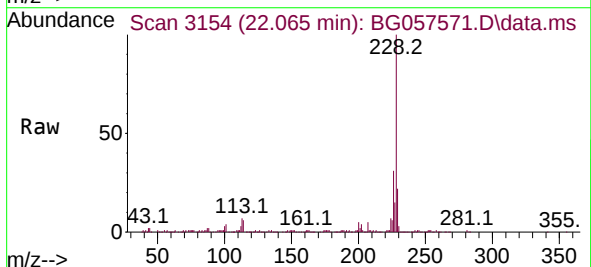
Manual Integrations
APPROVED

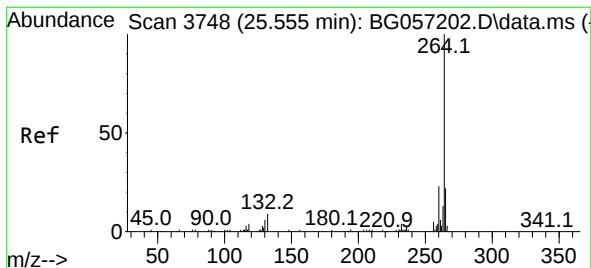
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023



#83
Chrysene
Concen: 20.617 ng m
RT: 22.065 min Scan# 3154
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:228 Resp: 197606
Ion Ratio Lower Upper
228 100
226 31.3 24.3 36.5
229 21.9 15.9 23.9





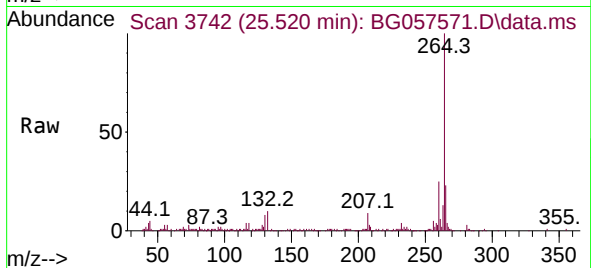
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.520 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

RBR-251671

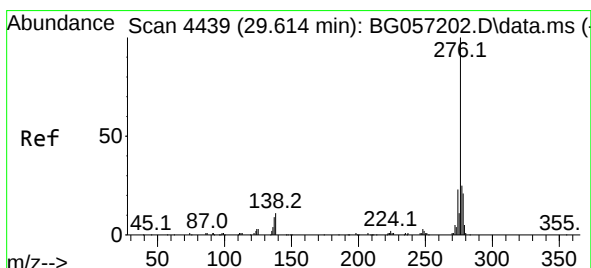
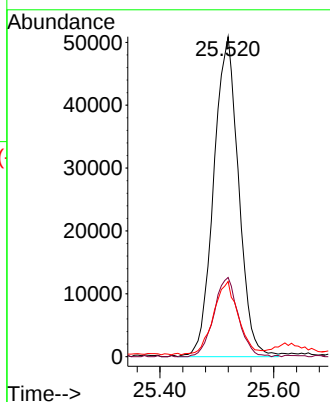
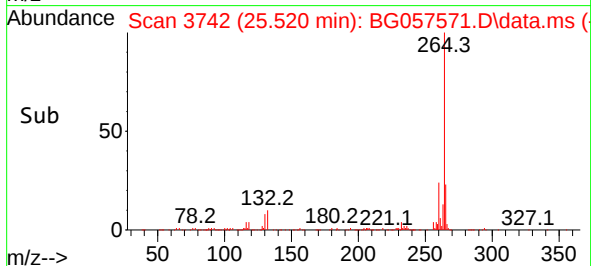


Tgt Ion:264 Resp: 15443
 Ion Ratio Lower Upper
 264 100
 260 24.7 18.8 28.2
 265 23.5 17.9 26.9

Manual Integrations

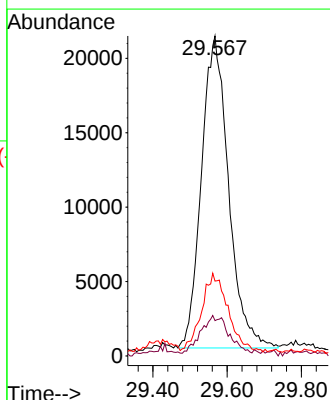
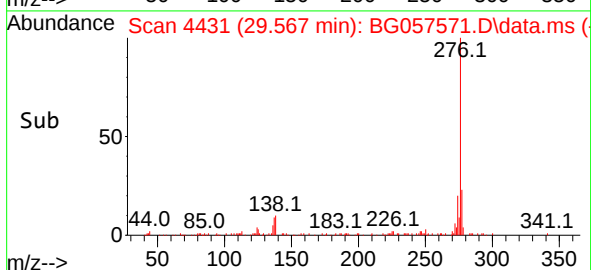
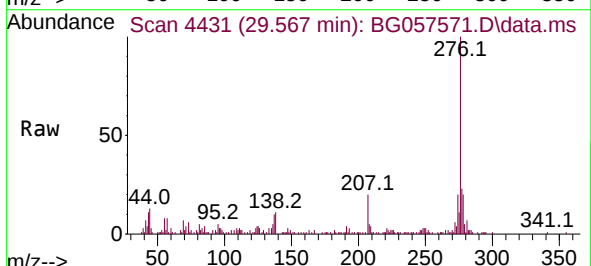
APPROVED

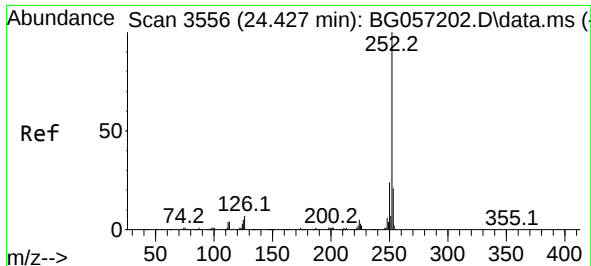
Reviewed By :Christian Giraldo 05/26/2023
 Supervised By :Jagrut Upadhyay 05/26/2023



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 9.470 ng
 RT: 29.567 min Scan# 4431
 Delta R.T. -0.014 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

Tgt Ion:276 Resp: 106586
 Ion Ratio Lower Upper
 276 100
 138 7.2 5.4 8.0
 277 24.8 20.6 30.8





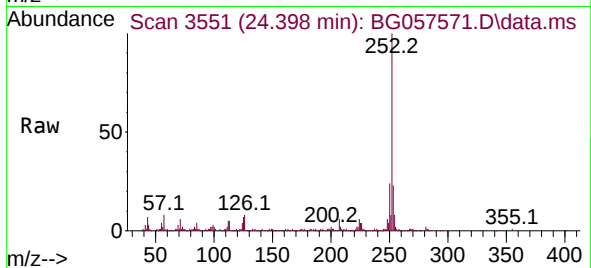
#88
Benzo(b)fluoranthene
Concen: 24.736 ng
RT: 24.398 min Scan# 3551
Delta R.T. -0.003 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

RBR-251671

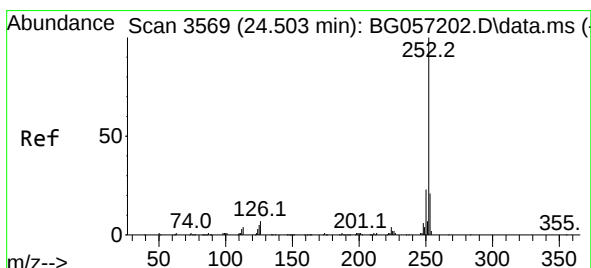
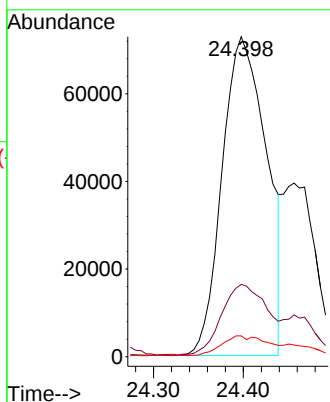
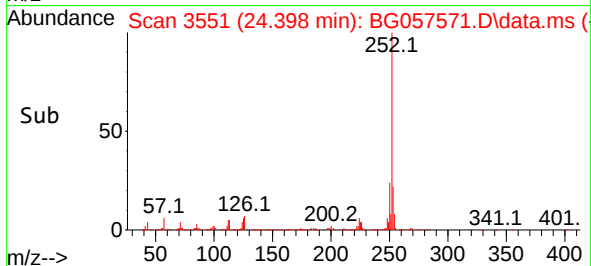


Tgt Ion:252 Resp: 249710
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.6
125 6.5 4.2 6.2

Manual Integrations

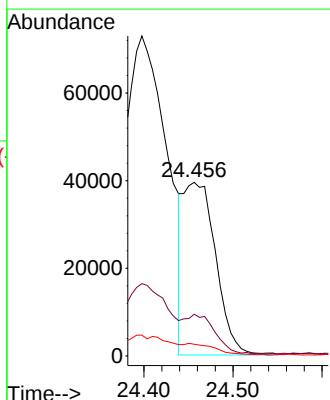
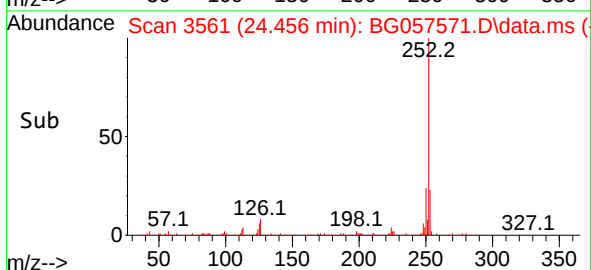
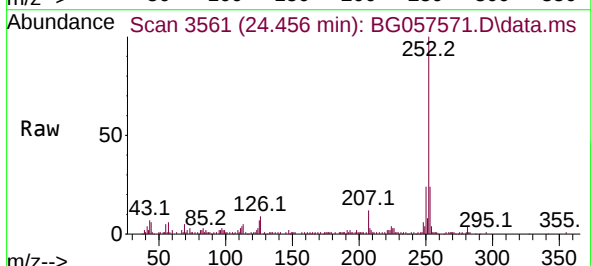
APPROVED

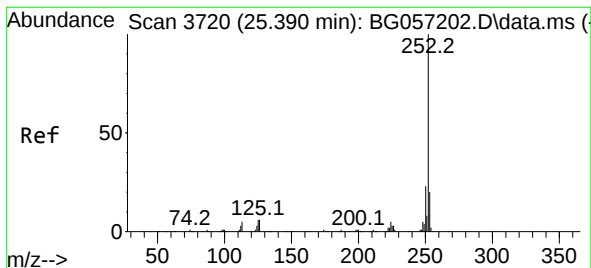
Reviewed By :Christian Giraldo 05/26/2023
Supervised By :Jagrut Upadhyay 05/26/2023



#89
Benzo(k)fluoranthene
Concen: 9.763 ng m
RT: 24.456 min Scan# 3561
Delta R.T. -0.014 min
Lab File: BG057571.D
Acq: 26 May 2023 00:01

Tgt Ion:252 Resp: 100152
Ion Ratio Lower Upper
252 100
253 24.1 17.4 26.0
125 6.7 4.1 6.1





#90

Benzo(a)pyrene

Concen: 17.173 ng

RT: 25.349 min Scan# 31

Delta R.T. -0.008 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

Instrument :

BNA_G

ClientSampleId :

RBR-251671

Tgt Ion:252 Resp: 16936

Ion Ratio Lower Upper

252 100

253 21.4 16.3 24.5

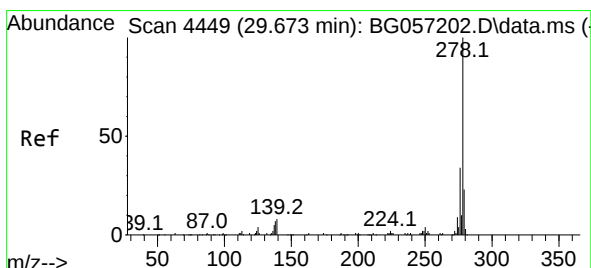
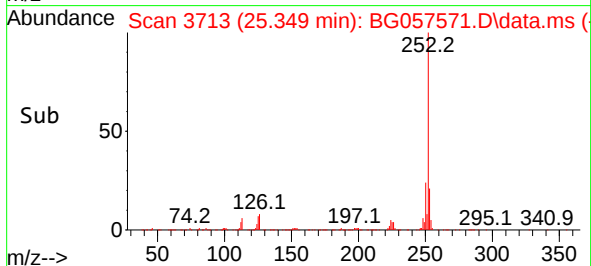
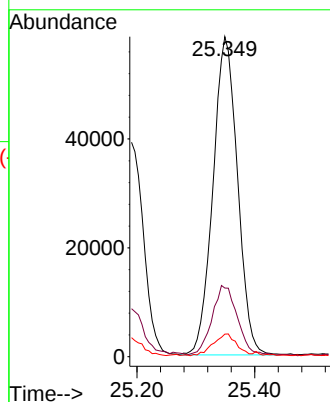
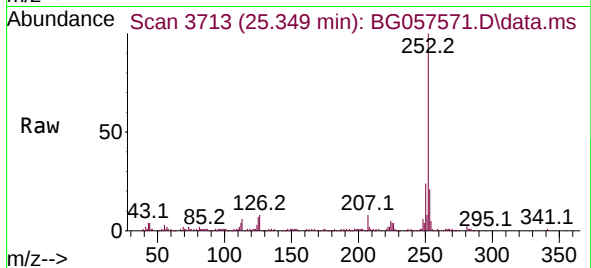
125 7.0 5.0 7.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/26/2023

Supervised By :Jagrut Upadhyay 05/26/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.935 ng

RT: 29.591 min Scan# 4435

Delta R.T. -0.044 min

Lab File: BG057571.D

Acq: 26 May 2023 00:01

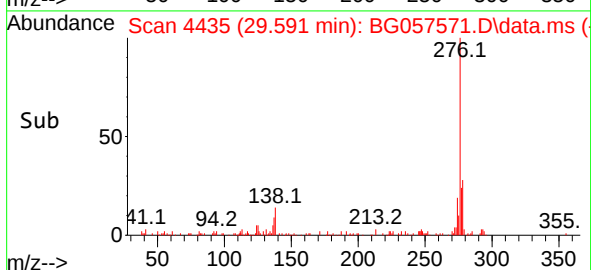
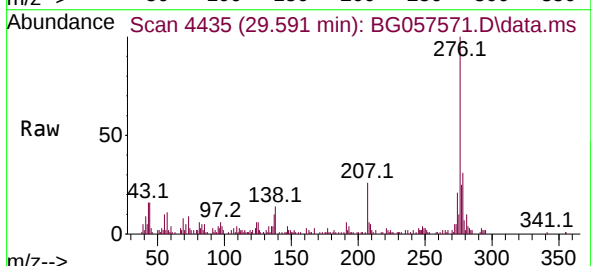
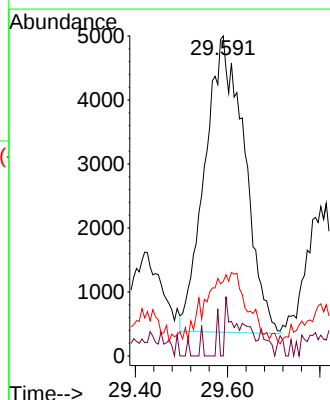
Tgt Ion:278 Resp: 27513

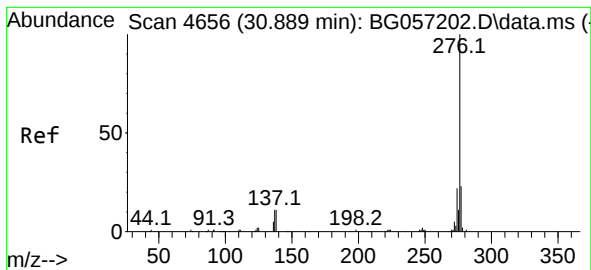
Ion Ratio Lower Upper

278 100

139 0.0 6.2 9.2#

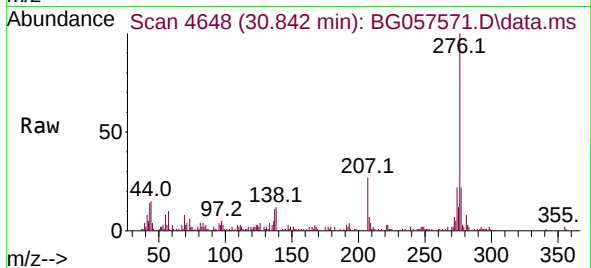
279 23.2 18.6 27.8





#92
 Benzo(g,h,i)perylene
 Concen: 11.535 ng
 RT: 30.842 min Scan# 4648
 Delta R.T. -0.014 min
 Lab File: BG057571.D
 Acq: 26 May 2023 00:01

Instrument :
 BNA_G
 ClientSampleId :
 RBR-251671



Tgt Ion:276 Resp: 105579
 Ion Ratio Lower Upper
 276 100
 277 22.4 18.4 27.6
 138 12.0 9.0 13.4

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 05/26/2023
 Supervised By :Jagrut Upadhyay 05/26/2023

