

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041423\
 Data File : BG057108.D
 Acq On : 14 Apr 2023 20:37
 Operator : CG/JU
 Sample : 02349-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 NB-07-041323

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/17/2023
 Supervised By : Jagrut Upadhyay 04/17/2023

Quant Time: Apr 15 02:49:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 13 05:15:23 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.396	152	19329	20.000	ng	-0.02
21) Naphthalene-d8	11.245	136	71904	20.000	ng	# 0.00
39) Acenaphthene-d10	15.010	164	44924	20.000	ng	0.00
64) Phenanthrene-d10	17.754	188	96243	20.000	ng	# 0.00
76) Chrysene-d12	22.071	240	85512	20.000	ng	0.00
86) Perylene-d12	25.602	264	90657	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.917	112	86182	71.359	ng	0.00
7) Phenol-d6	7.538	99	120489	66.705	ng	0.00
23) Nitrobenzene-d5	9.577	82	77089	43.868	ng	0.00
42) 2,4,6-Tribromophenol	16.491	330	44259	61.670	ng	0.00
45) 2-Fluorobiphenyl	13.642	172	148720	44.890	ng	0.00
79) Terphenyl-d14	20.321	244	238642	47.224	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.292	128	10458	2.668	ng	98
37) 2-Methylnaphthalene	12.866	142	7039	2.263	ng	94
49) Acenaphthylene	14.746	152	11554m	2.891	ng	
71) Phenanthrene	17.795	178	56869	11.590	ng	98
72) Anthracene	17.883	178	14396	2.862	ng	95
75) Fluoranthene	19.780	202	135085	21.717	ng	99
78) Pyrene	20.145	202	117822	19.921	ng	99
81) Benzo(a)anthracene	22.048	228	82149	13.883	ng	98
83) Chrysene	22.118	228	76178	13.749	ng	95
87) Indeno(1,2,3-cd)pyrene	29.685	276	58868	8.786	ng	# 91
88) Benzo(b)fluoranthene	24.474	252	134273	23.685	ng	# 99
89) Benzo(k)fluoranthene	24.533	252	39767m	7.026	ng	
90) Benzo(a)pyrene	25.438	252	83791	15.041	ng	# 98
91) Dibenzo(a,h)anthracene	29.732	278	16503	2.997	ng	# 90
92) Benzo(g,h,i)perylene	30.959	276	55447m	10.282	ng	

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

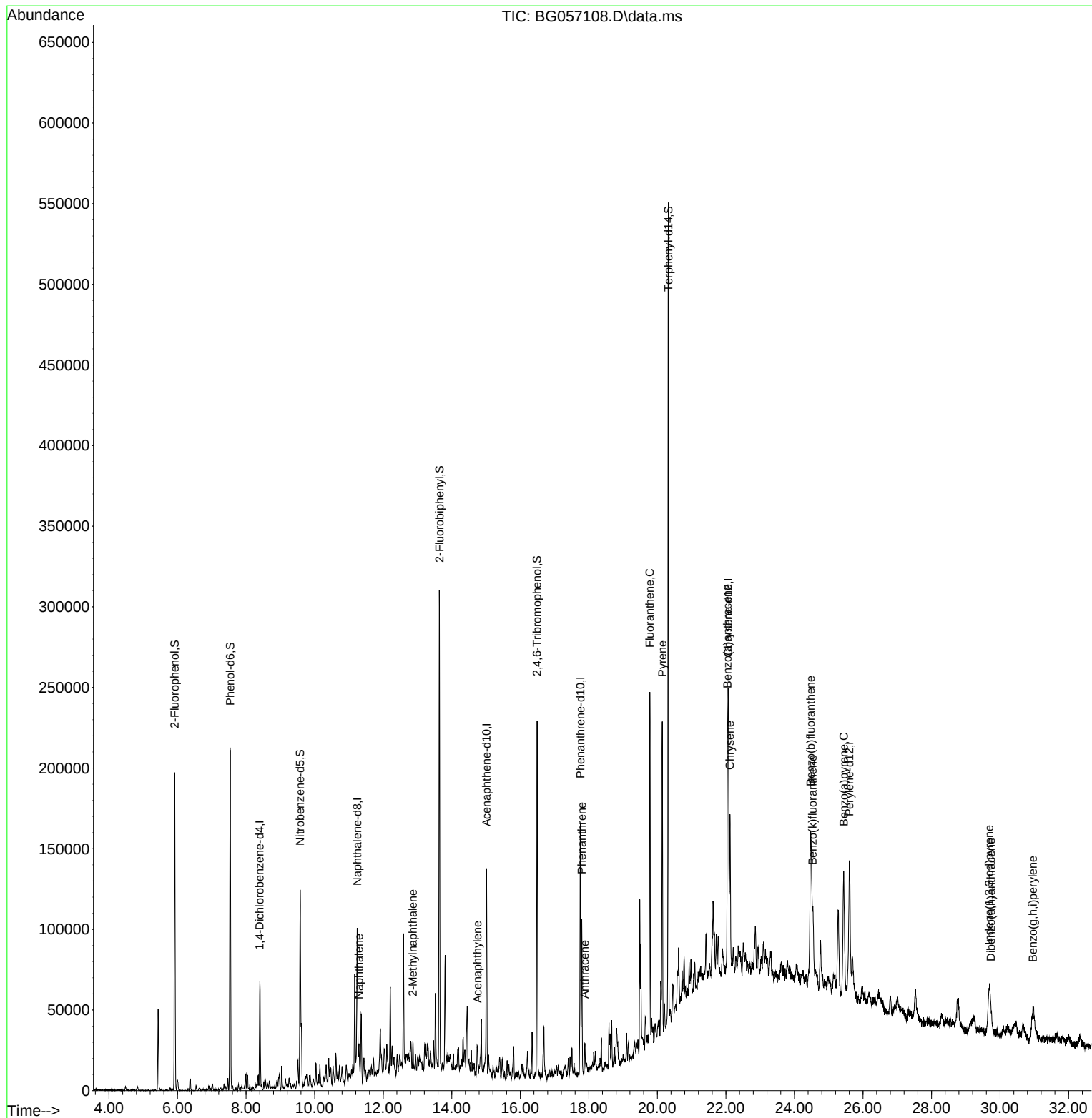
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041423\
Data File : BG057108.D
Acq On : 14 Apr 2023 20:37
Operator : CG/JU
Sample : 02349-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

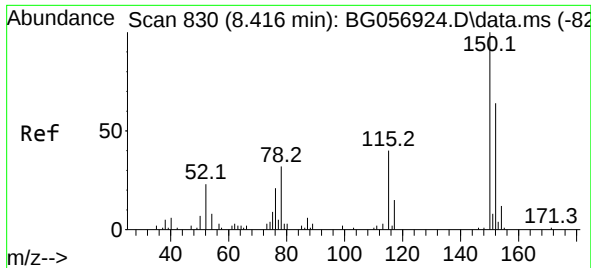
Instrument :
BNA_G
ClientSampleId :
NB-07-041323

Quant Time: Apr 15 02:49:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 13 05:15:23 2023
Response via : Initial Calibration

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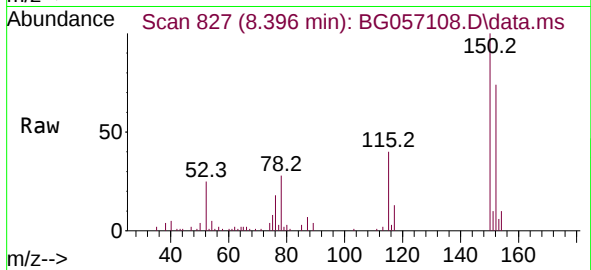
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.396 min Scan# 81
Delta R.T. -0.015 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

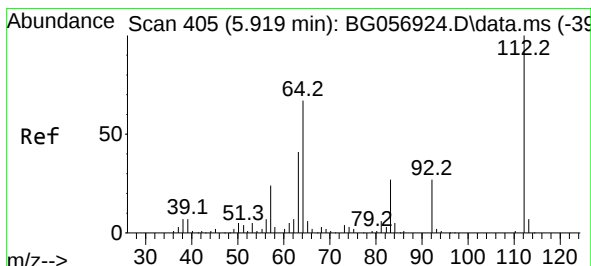
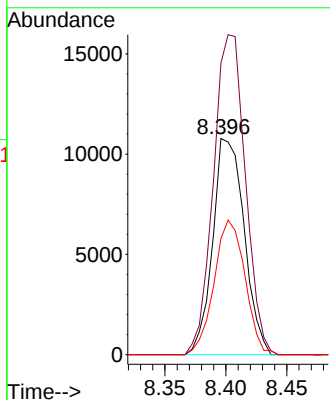
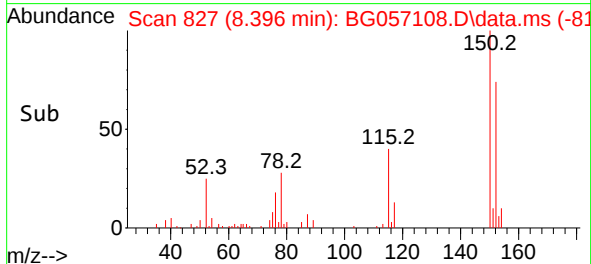
Instrument :
BNA_G
ClientSampleId :
NB-07-041323



Tgt Ion:152 Resp: 19329
Ion Ratio Lower Upper
152 100
150 134.9 124.1 186.1
115 53.7 49.1 73.7

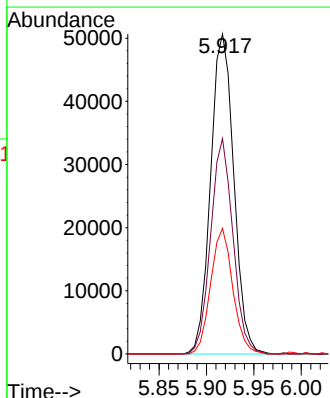
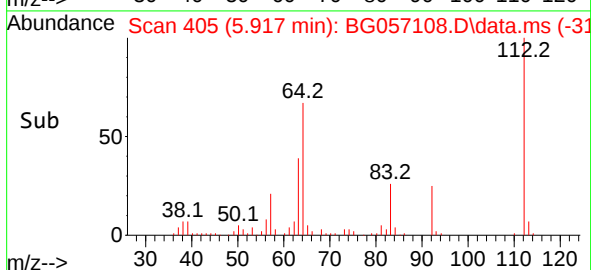
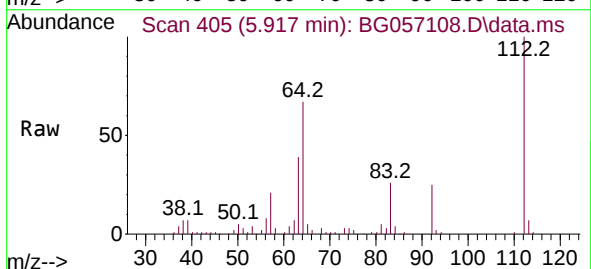
Manual Integrations
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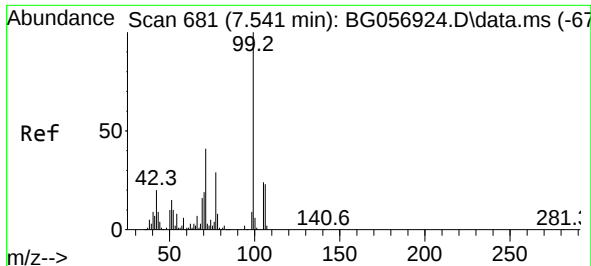
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#5
2-Fluorophenol
Concen: 71.359 ng
RT: 5.917 min Scan# 405
Delta R.T. 0.002 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:112 Resp: 86182
Ion Ratio Lower Upper
112 100
64 67.3 53.2 79.8
63 39.2 32.6 48.8





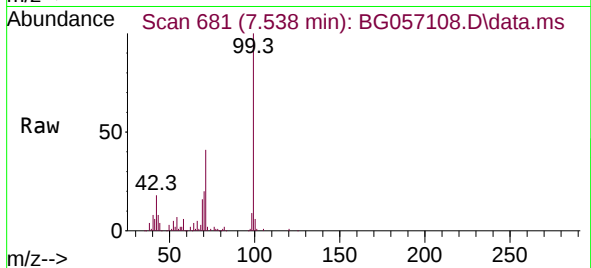
#7
Phenol-d6
Concen: 66.705 ng
RT: 7.538 min Scan# 681
Delta R.T. 0.002 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

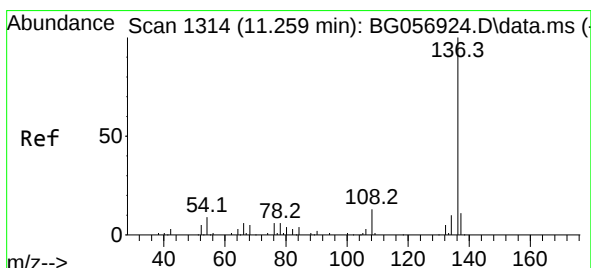
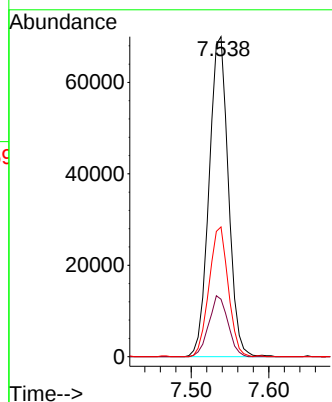
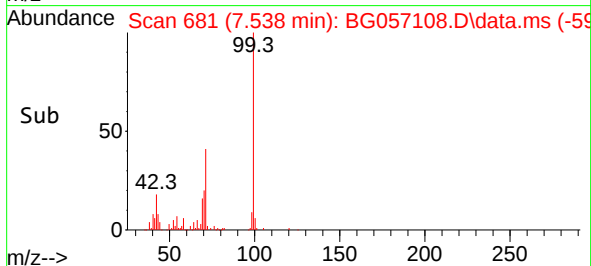


Tgt Ion: 99 Resp: 120489
Ion Ratio Lower Upper
99 100
42 18.0 15.7 23.5
71 40.6 32.5 48.7

Manual Integrations

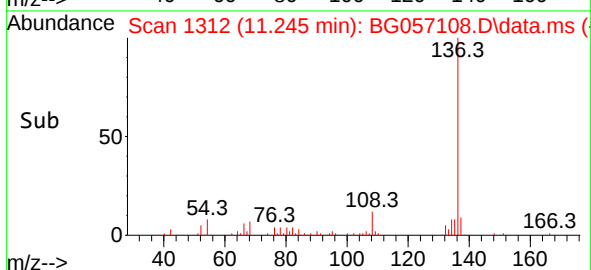
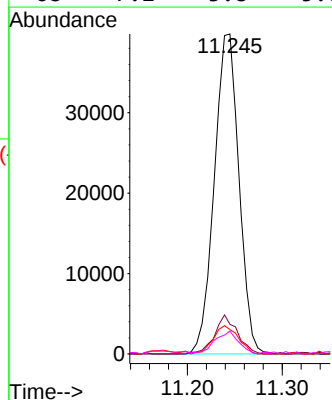
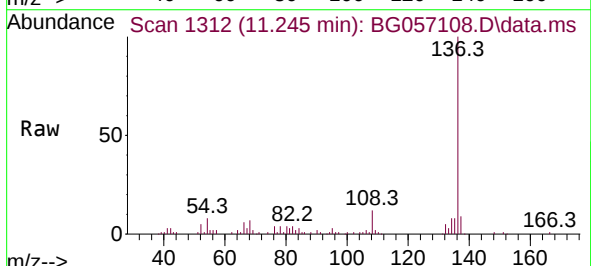
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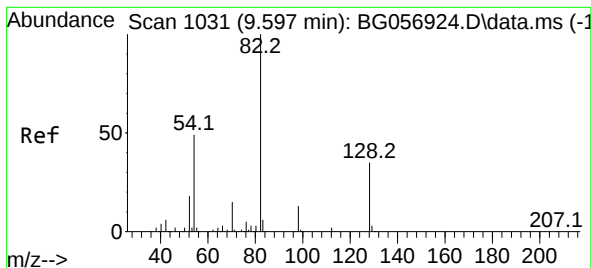
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.245 min Scan# 1312
Delta R.T. -0.004 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:136 Resp: 71904
Ion Ratio Lower Upper
136 100
137 9.3 8.6 13.0
54 7.6 6.9 10.3
68 7.2 3.8 5.6#





#23

Nitrobenzene-d5

Concen: 43.868 ng

RT: 9.577 min Scan# 1028

Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

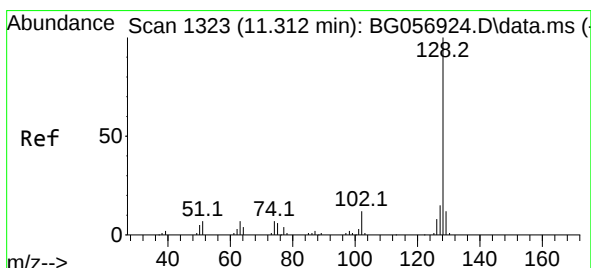
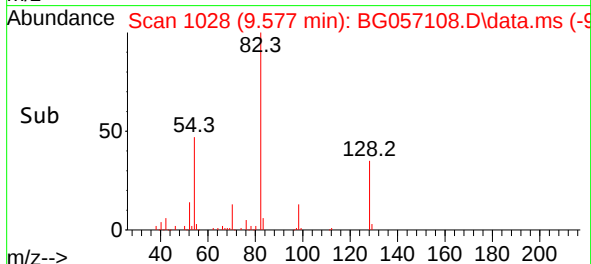
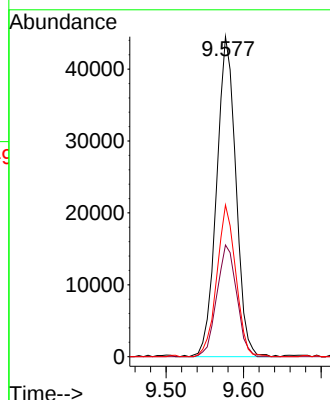
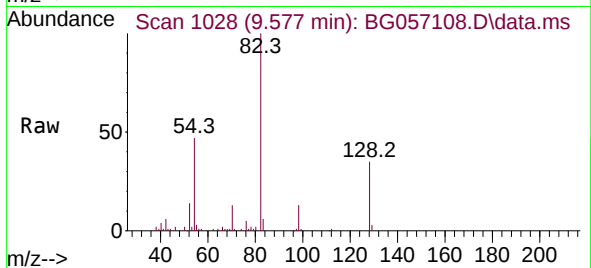
Tgt Ion:	82	Resp:	77089
Ion Ratio	Lower	Upper	
82	100		
128	34.9	27.9	41.9
54	47.4	39.4	59.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/17/2023



#31

Naphthalene

Concen: 2.668 ng

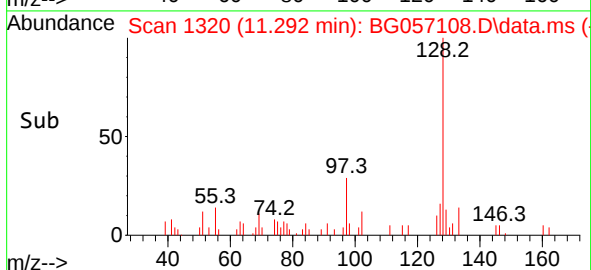
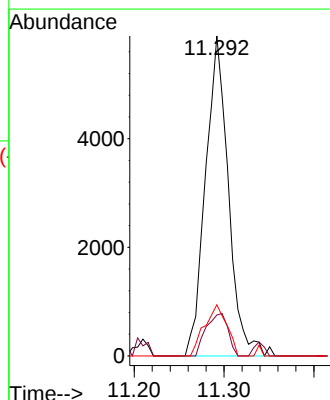
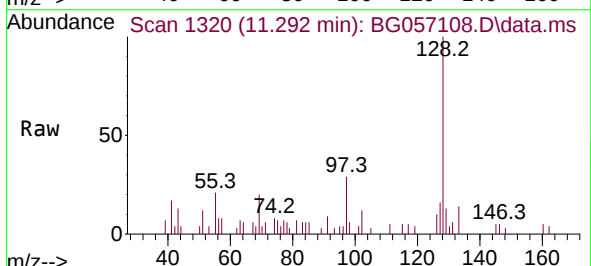
RT: 11.292 min Scan# 1320

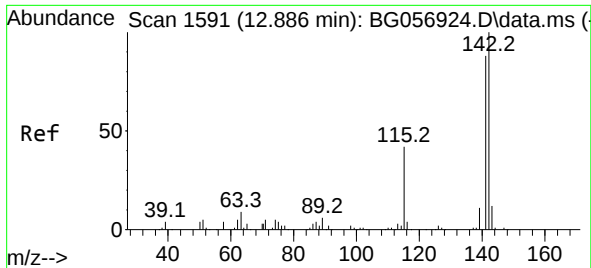
Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Tgt Ion:	128	Resp:	10458
Ion Ratio	Lower	Upper	
128	100		
129	12.8	9.4	14.2
127	16.0	12.2	18.4





#37
2-Methylnaphthalene
Concen: 2.263 ng
RT: 12.866 min Scan# 1153
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

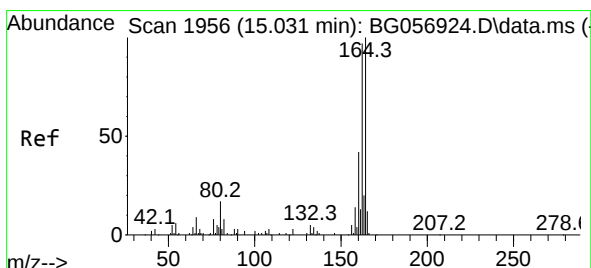
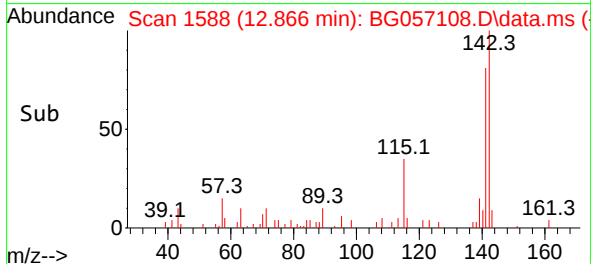
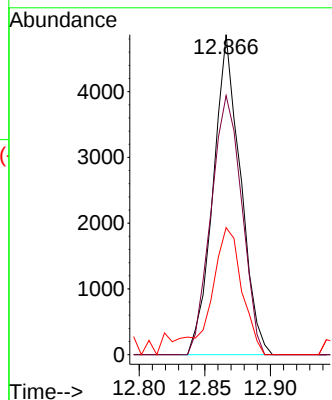
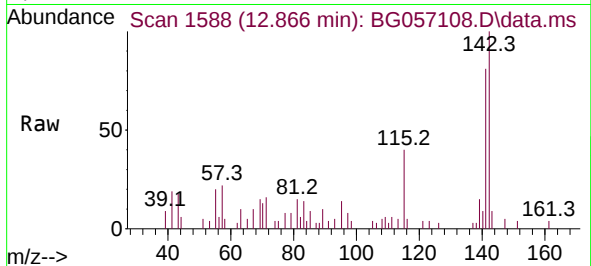
NB-07-041323

Tgt Ion:142 Resp: 7039
Ion Ratio Lower Upper
142 100
141 80.9 70.3 105.5
115 39.7 33.5 50.3

Manual Integrations

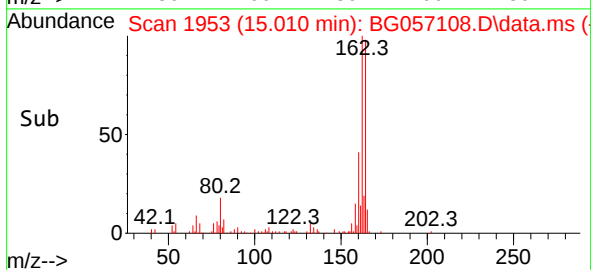
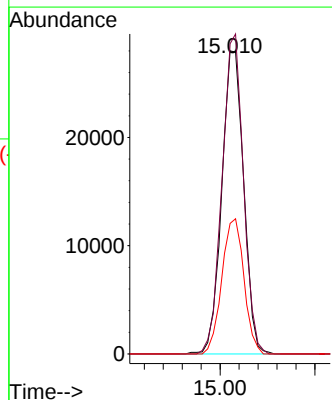
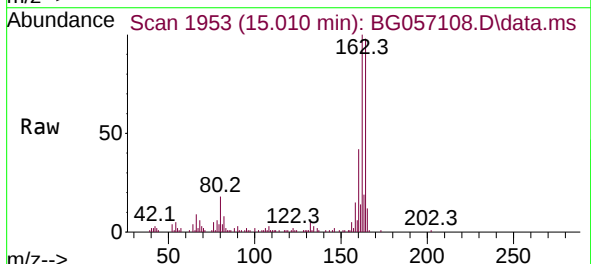
APPROVED

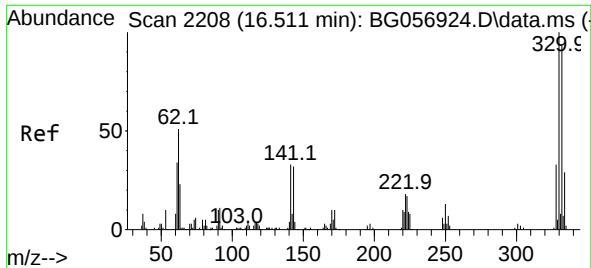
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.010 min Scan# 1953
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:164 Resp: 44924
Ion Ratio Lower Upper
164 100
162 102.4 77.8 116.8
160 43.1 33.5 50.3





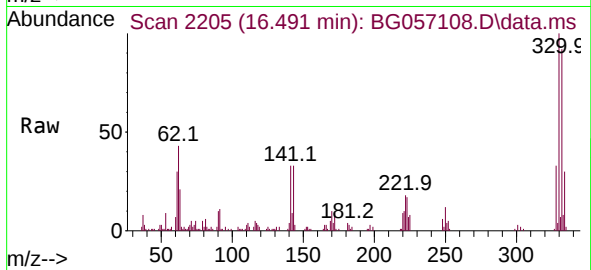
#42
2,4,6-Tribromophenol
Concen: 61.670 ng
RT: 16.491 min Scan# 21
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

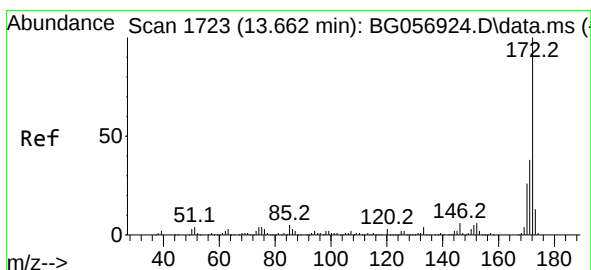
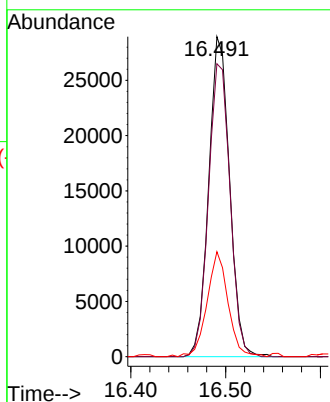
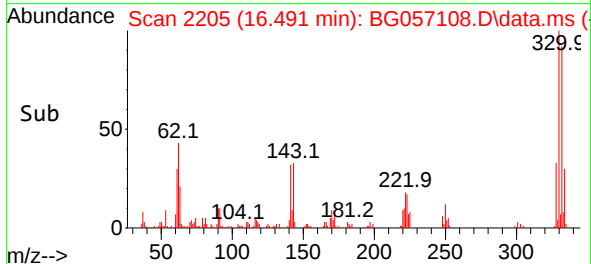


Tgt Ion:330 Resp: 44259
Ion Ratio Lower Upper
330 100
332 94.4 76.1 114.1
141 33.0 25.8 38.6

Manual Integrations

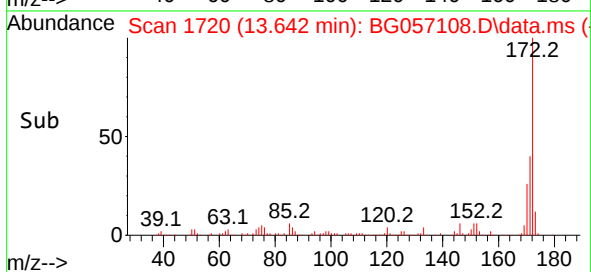
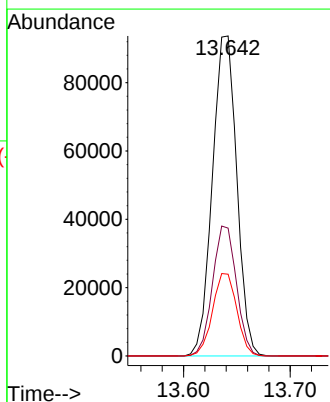
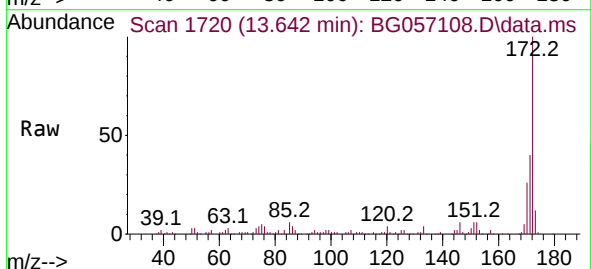
APPROVED

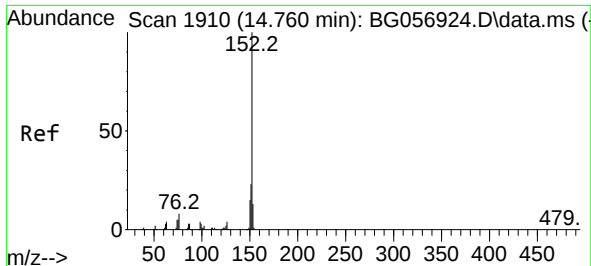
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#45
2-Fluorobiphenyl
Concen: 44.890 ng
RT: 13.642 min Scan# 1720
Delta R.T. -0.004 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:172 Resp: 148720
Ion Ratio Lower Upper
172 100
171 40.0 30.6 46.0
170 25.6 20.6 30.8





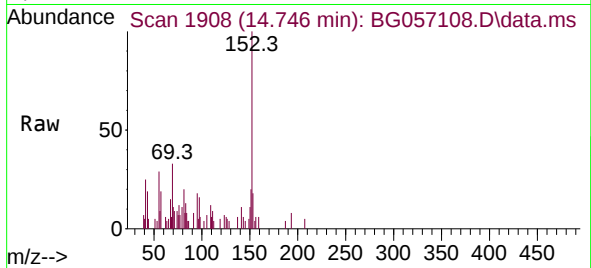
#49
Acenaphthylene
Concen: 2.891 ng m
RT: 14.746 min Scan# 1910
Delta R.T. -0.004 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

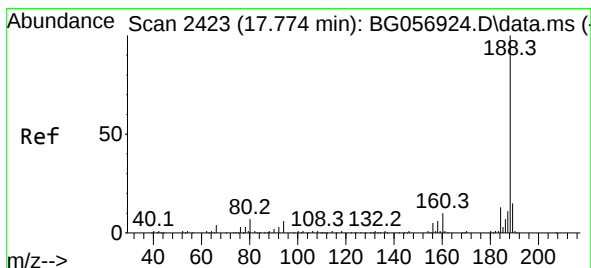
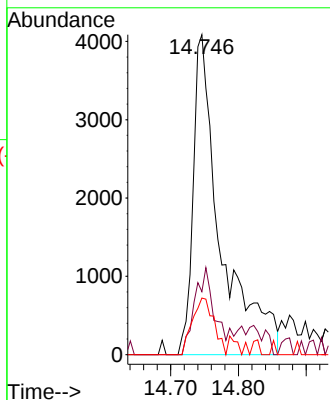
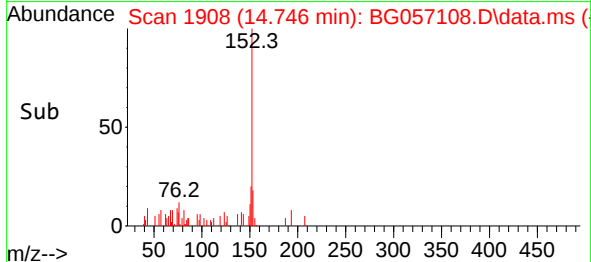


Tgt Ion:152 Resp: 11554
Ion Ratio Lower Upper
152 100
151 19.7 18.2 27.2
153 17.7 10.5 15.7

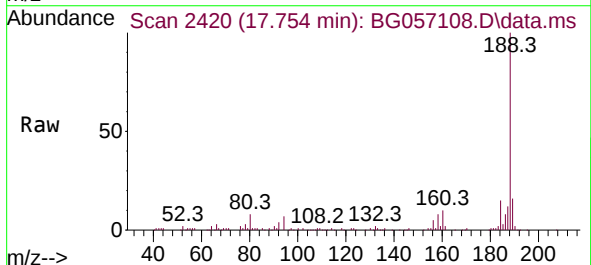
Manual Integrations

APPROVED

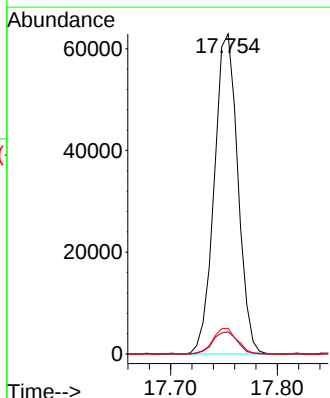
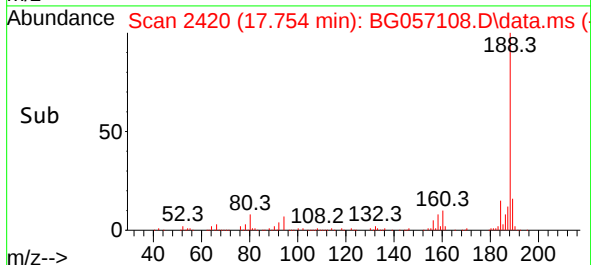
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023

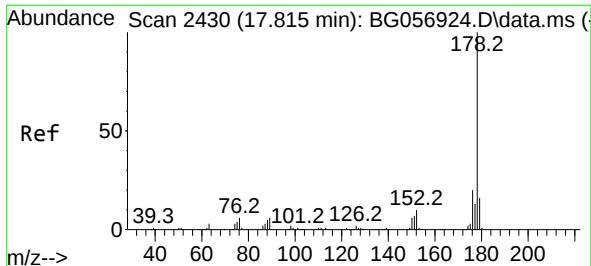


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.754 min Scan# 2420
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37



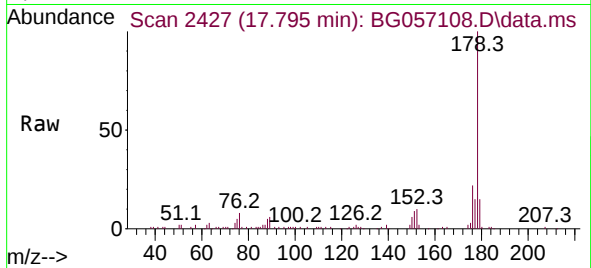
Tgt Ion:188 Resp: 96243
Ion Ratio Lower Upper
188 100
94 6.9 4.6 6.8#
80 8.0 5.5 8.3





#71
Phenanthrene
Concen: 11.590 ng
RT: 17.795 min Scan# 2427
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

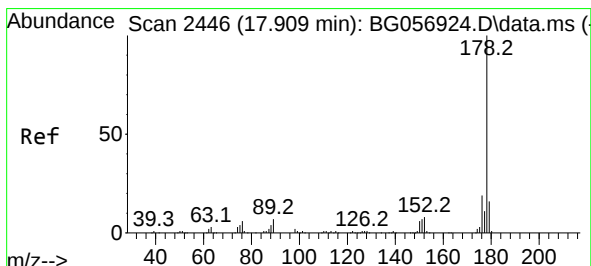
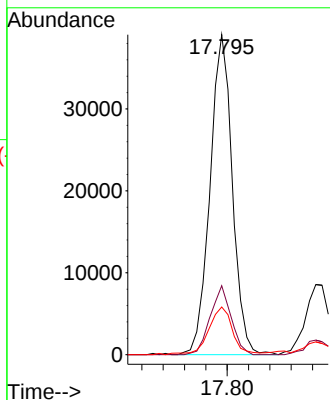
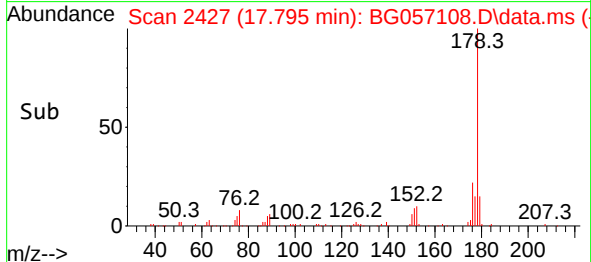
Instrument :
BNA_G
ClientSampleId :
NB-07-041323



Tgt Ion:178 Resp: 5686
Ion Ratio Lower Upper
178 100
176 21.6 16.2 24.2
179 14.9 12.5 18.7

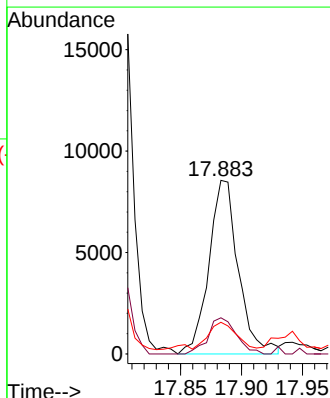
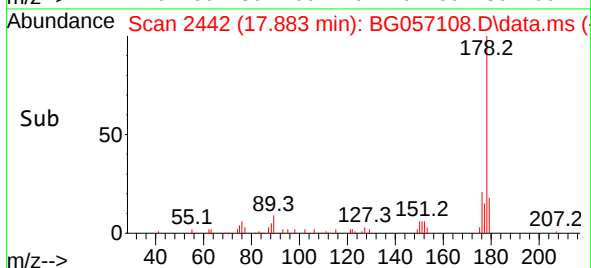
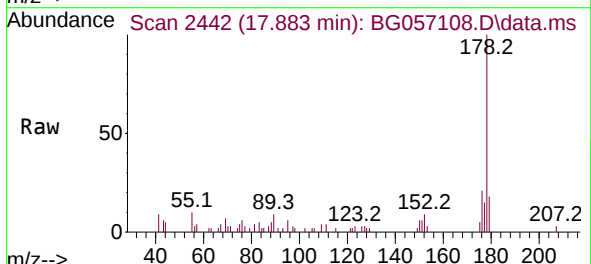
Manual Integrations
APPROVED

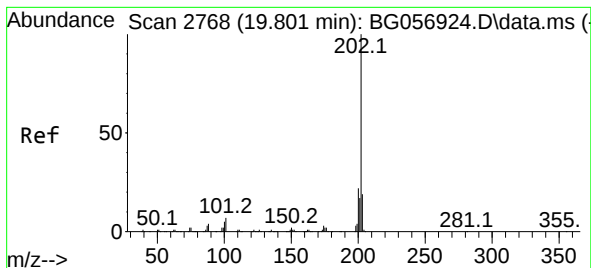
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#72
Anthracene
Concen: 2.862 ng
RT: 17.883 min Scan# 2442
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

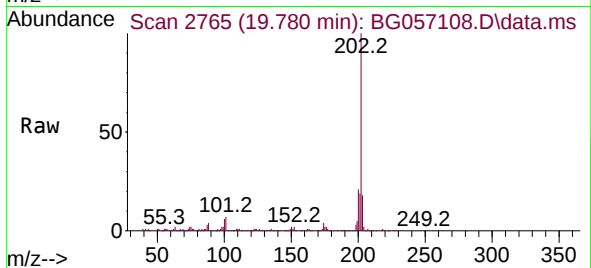
Tgt Ion:178 Resp: 14396
Ion Ratio Lower Upper
178 100
176 20.8 15.4 23.2
179 18.3 12.4 18.6





#75
Fluoranthene
Concen: 21.717 ng
RT: 19.780 min Scan# 21
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

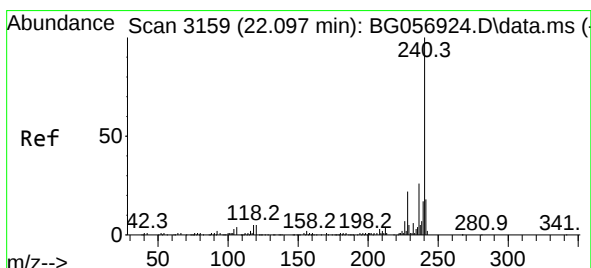
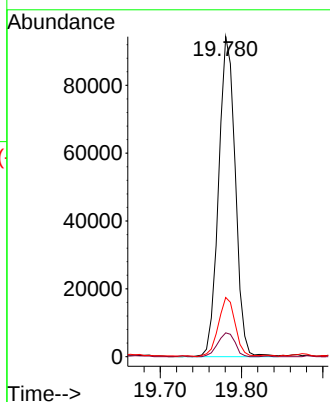
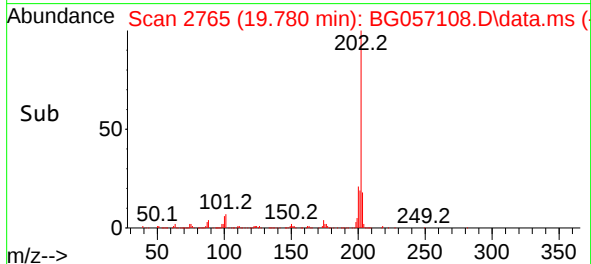
Instrument :
BNA_G
ClientSampleId :
NB-07-041323



Tgt Ion:202 Resp: 13508
Ion Ratio Lower Upper
202 100
101 7.4 0.0 26.7
203 18.5 0.0 39.0

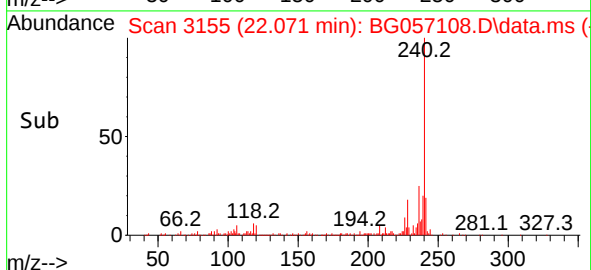
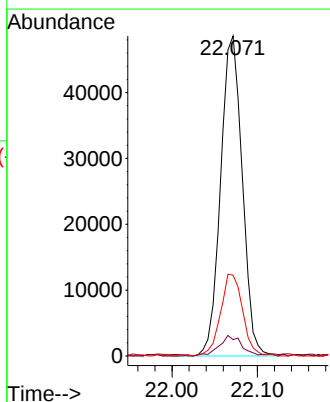
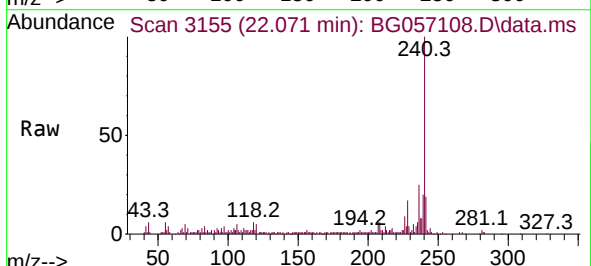
Manual Integrations
APPROVED

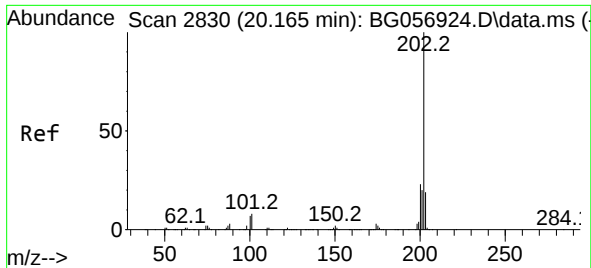
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.071 min Scan# 3155
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:240 Resp: 85512
Ion Ratio Lower Upper
240 100
120 5.1 3.8 5.6
236 25.3 21.0 31.6





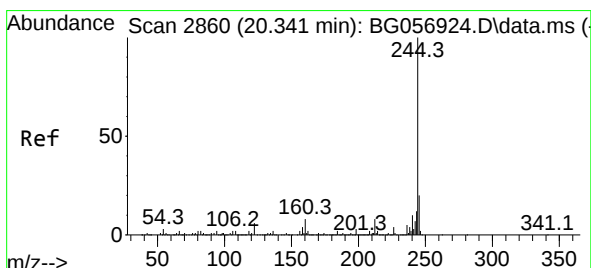
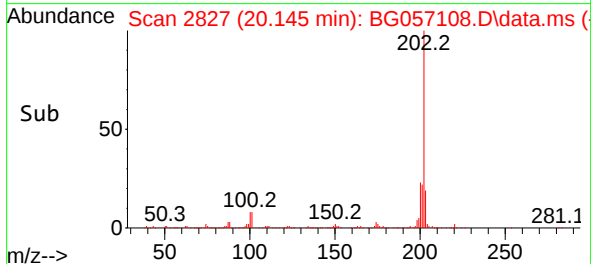
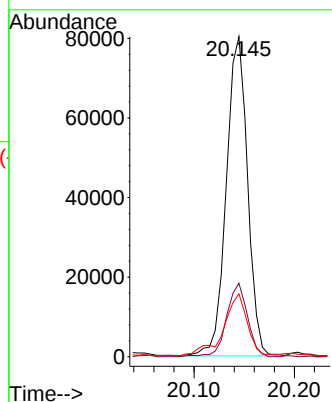
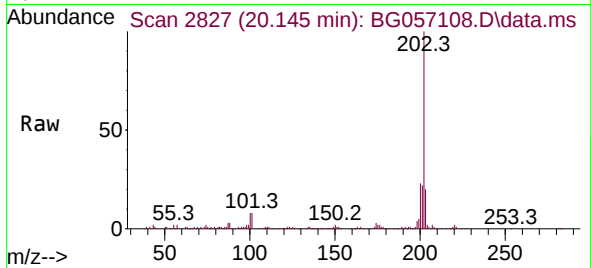
#78
Pyrene
Concen: 19.921 ng
RT: 20.145 min Scan# 2827
Delta R.T. -0.004 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Instrument :
BNA_G
ClientSampleId :
NB-07-041323

Tgt Ion:202 Resp: 11782
Ion Ratio Lower Upper
202 100
200 22.9 18.7 28.1
203 19.6 15.4 23.2

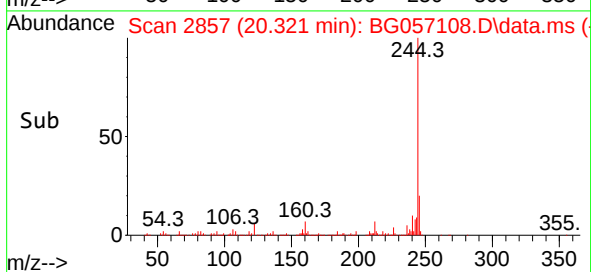
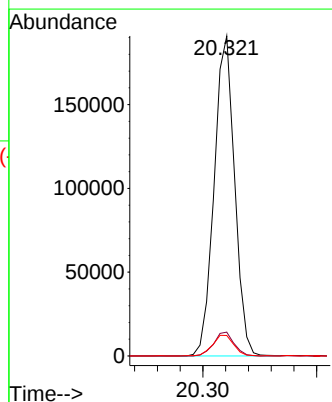
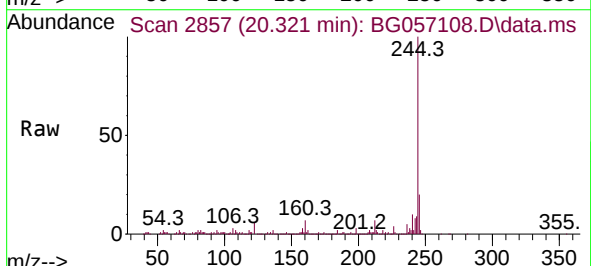
Manual Integrations
APPROVED

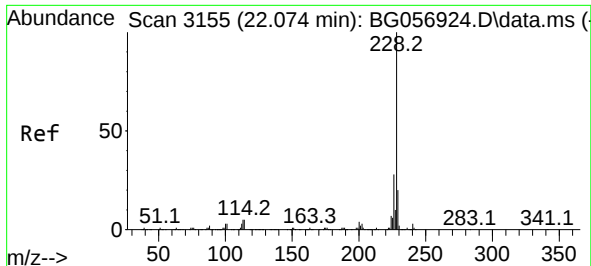
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#79
Terphenyl-d14
Concen: 47.224 ng
RT: 20.321 min Scan# 2857
Delta R.T. -0.004 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

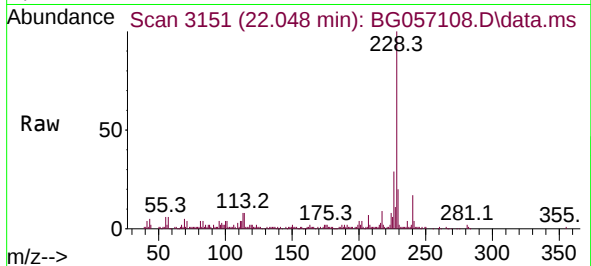
Tgt Ion:244 Resp: 238642
Ion Ratio Lower Upper
244 100
212 7.5 6.1 9.1
122 6.4 5.0 7.4





#81
Benzo(a)anthracene
Concen: 13.883 ng
RT: 22.048 min Scan# 3155
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

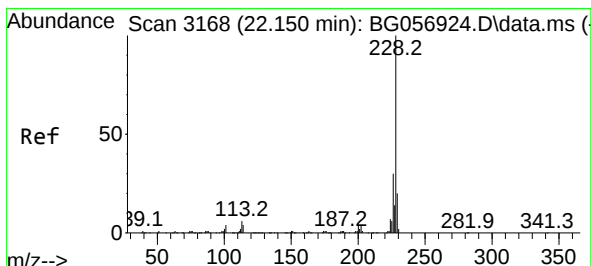
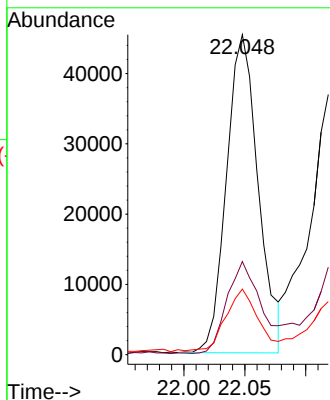
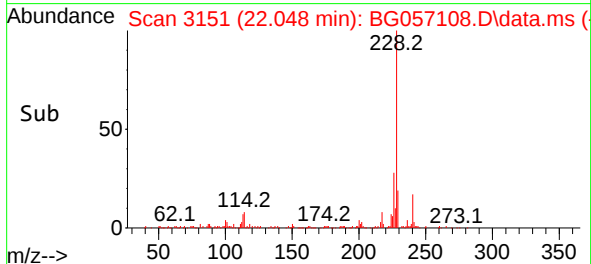
Instrument :
BNA_G
ClientSampleId :
NB-07-041323



Tgt Ion:228 Resp: 82149
Ion Ratio Lower Upper
228 100
226 29.1 22.1 33.1
229 20.5 16.1 24.1

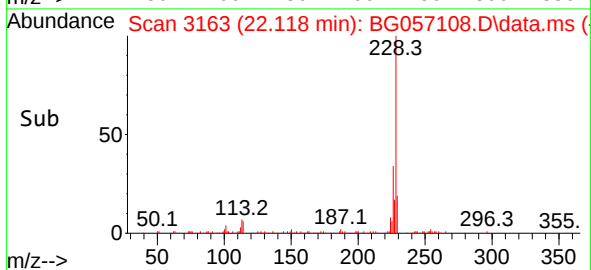
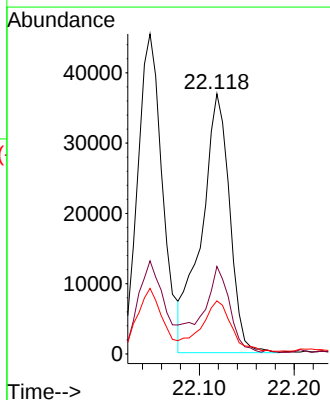
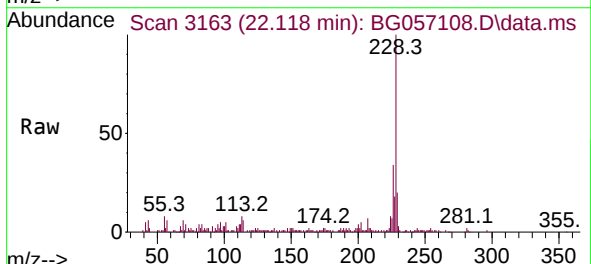
Manual Integrations
APPROVED

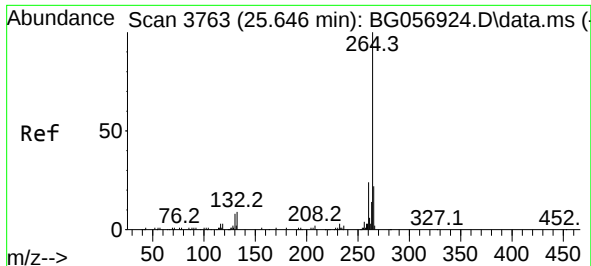
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#83
Chrysene
Concen: 13.749 ng
RT: 22.118 min Scan# 3163
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:228 Resp: 76178
Ion Ratio Lower Upper
228 100
226 33.6 24.1 36.1
229 20.4 15.6 23.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.602 min Scan# 31
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

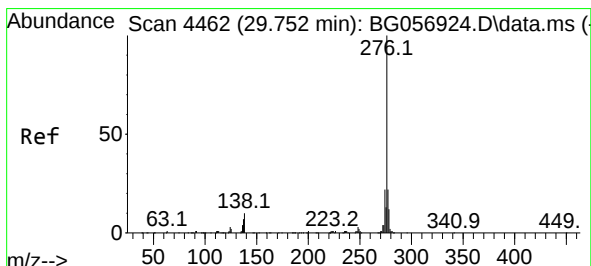
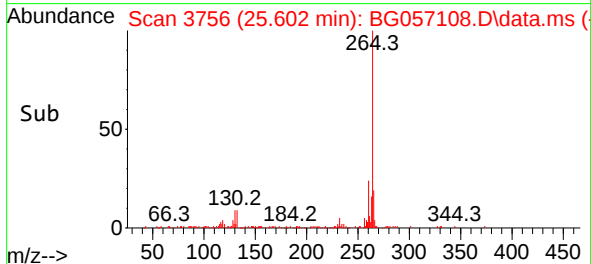
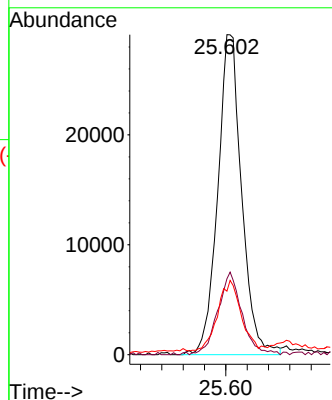
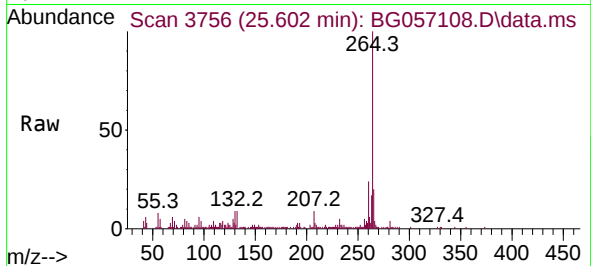
ClientSampleId :

NB-07-041323

Tgt Ion:264 Resp: 9065
Ion Ratio Lower Upper
264 100
260 23.7 19.0 28.4
265 19.8 17.8 26.6

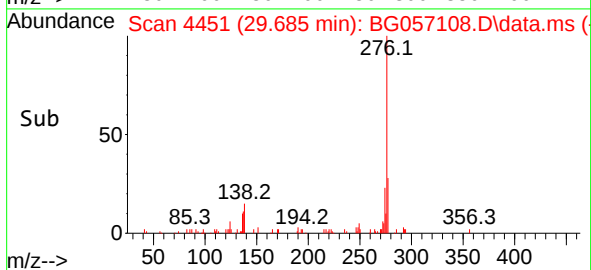
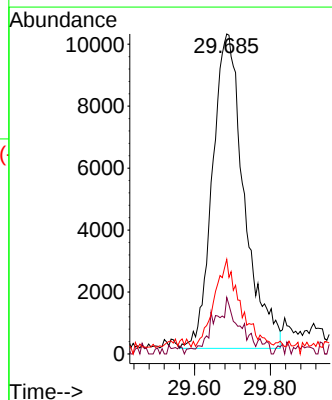
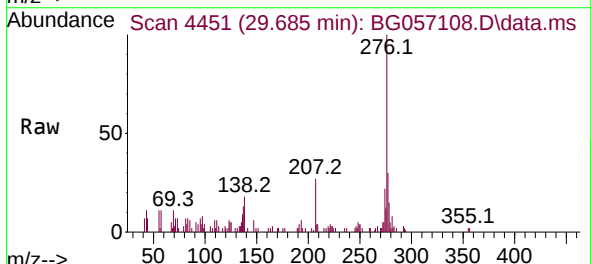
Manual Integrations
APPROVED

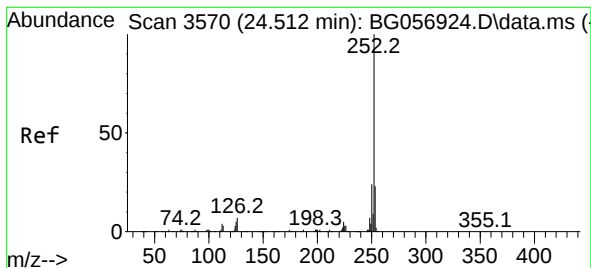
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 8.786 ng
RT: 29.685 min Scan# 4451
Delta R.T. -0.027 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:276 Resp: 58868
Ion Ratio Lower Upper
276 100
138 6.6 7.7 11.5#
277 21.4 21.0 31.4





#88

Benzo(b)fluoranthene

Concen: 23.685 ng

RT: 24.474 min Scan# 3

Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

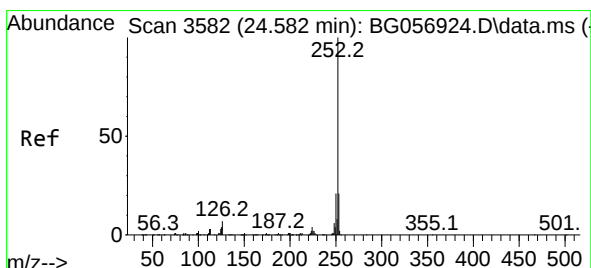
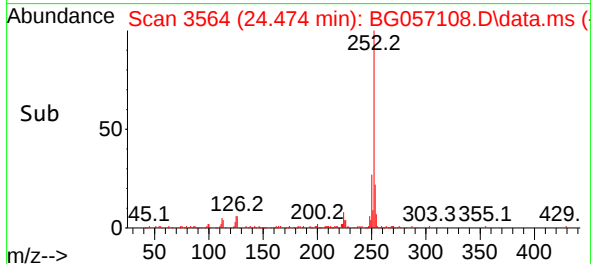
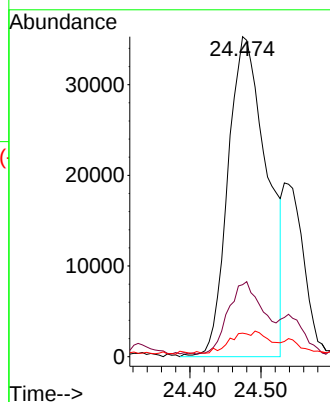
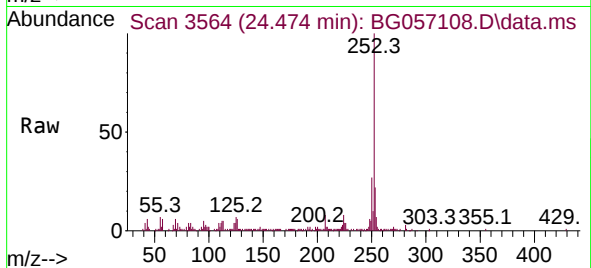
NB-07-041323

Tgt Ion:252 Resp: 13427
 Ion Ratio Lower Upper
 252 100
 253 22.5 18.1 27.1
 125 7.3 4.2 6.4

Manual Integrations

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Reviewed By :Christian Giraldo 04/17/2023
 Supervised By :Jagrut Upadhyay 04/17/2023



#89

Benzo(k)fluoranthene

Concen: 7.026 ng m

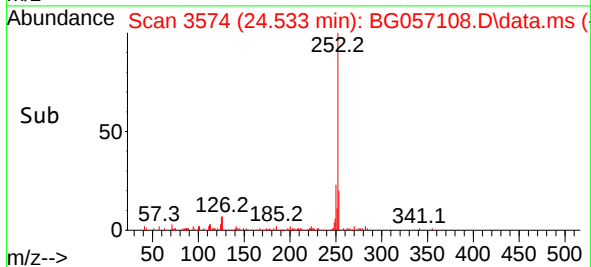
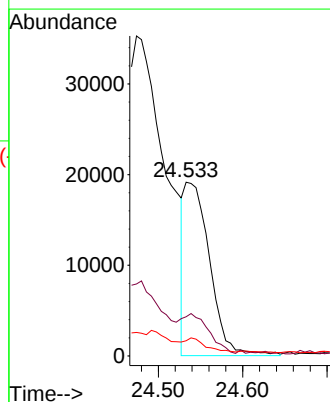
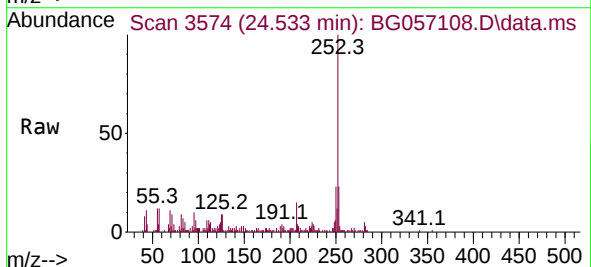
RT: 24.533 min Scan# 3574

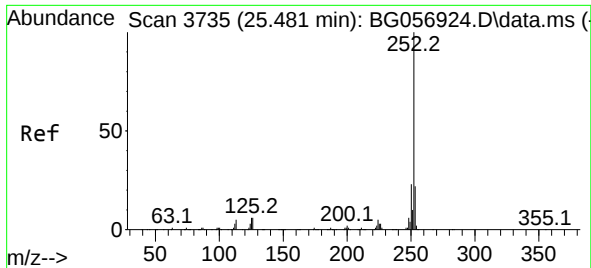
Delta R.T. -0.027 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

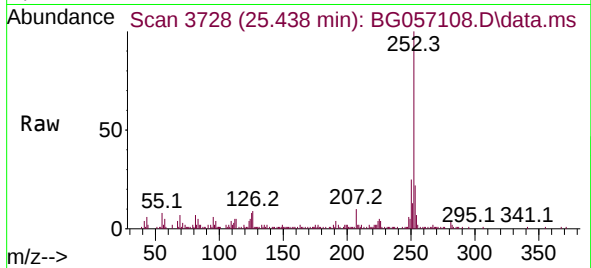
Tgt Ion:252 Resp: 39767
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.1 25.7
 125 8.7 3.8 5.6





#90
Benzo(a)pyrene
Concen: 15.041 ng
RT: 25.438 min Scan# 31
Delta R.T. -0.015 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

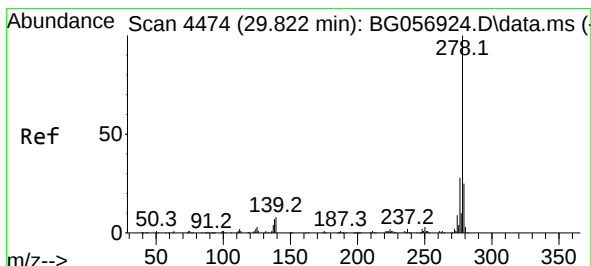
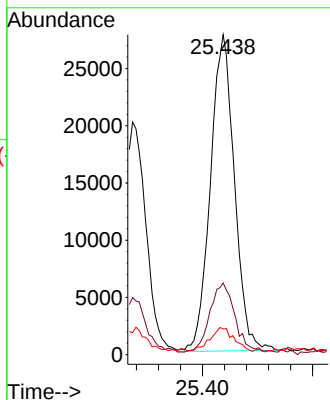
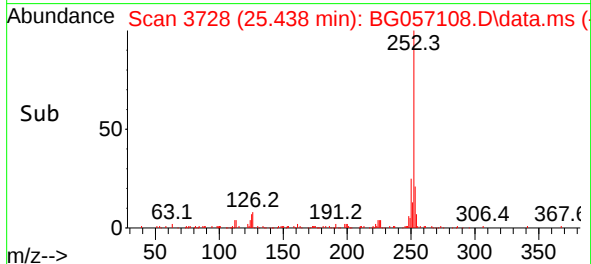
Instrument :
BNA_G
ClientSampleId :
NB-07-041323



Tgt Ion:252 Resp: 8379
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 8.1 4.5 6.7

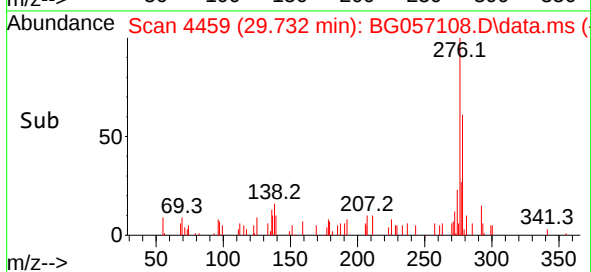
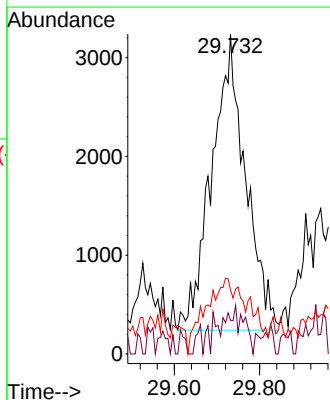
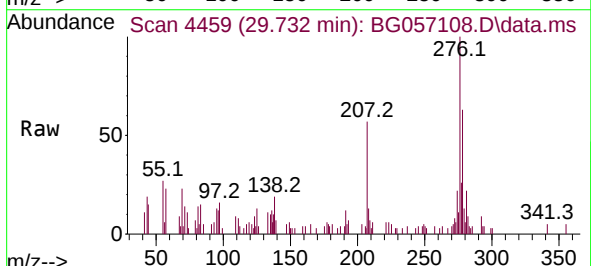
Manual Integrations
APPROVED

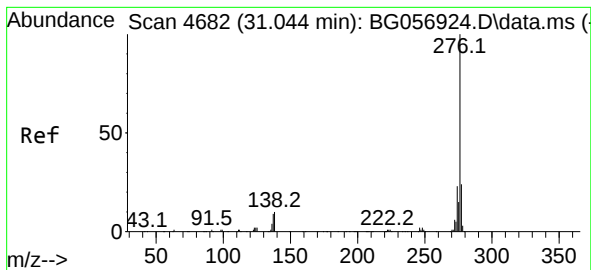
Reviewed By :Christian Giraldo 04/17/2023
Supervised By :Jagrut Upadhyay 04/17/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.997 ng
RT: 29.732 min Scan# 4459
Delta R.T. -0.033 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

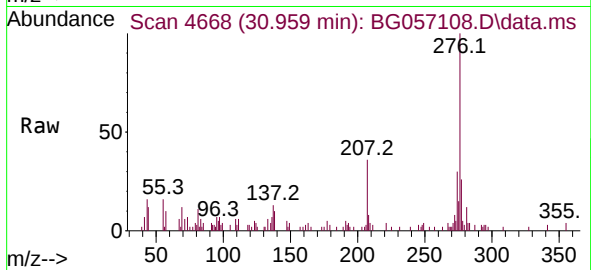
Tgt Ion:278 Resp: 16503
Ion Ratio Lower Upper
278 100
139 10.5 6.4 9.6#
279 20.0 20.2 30.2#





#92
 Benzo(g,h,i)perylene
 Concen: 10.282 ng m
 RT: 30.959 min Scan# 4668
 Delta R.T. -0.033 min
 Lab File: BG057108.D
 Acq: 14 Apr 2023 20:37

Instrument :
 BNA_G
 ClientSampleId :
 NB-07-041323



Tgt Ion:	276	Resp:	5544
Ion Ratio	Lower	Upper	
276	100		
277	26.1	19.1	28.7
138	9.9	8.2	12.2

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 04/17/2023
 Supervised By :Jagrut Upadhyay 04/17/2023

