

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020823\
 Data File : BG056582.D
 Acq On : 8 Feb 2023 15:05
 Operator : CG/JU
 Sample : 01477-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TR-6-020723

Quant Time: Feb 09 02:07:13 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 08 03:02:11 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Christian
 Giraldo
 02/09/2023
 Supervised By :Jagrut
 Upadhyay
 02/09/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.266	152	41982	20.000	ng	# 0.00
21) Naphthalene-d8	11.104	136	146122	20.000	ng	# 0.00
39) Acenaphthene-d10	14.894	164	99138	20.000	ng	0.00
64) Phenanthrene-d10	17.632	188	221294	20.000	ng	0.00
76) Chrysene-d12	21.921	240	222061	20.000	ng	0.00
86) Perylene-d12	25.352	264	243568	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.793	112	226927	99.435	ng	0.00
7) Phenol-d6	7.420	99	298757	88.353	ng	0.00
23) Nitrobenzene-d5	9.447	82	162847	63.285	ng	0.00
42) 2,4,6-Tribromophenol	16.380	330	109272	82.909	ng	0.00
45) 2-Fluorobiphenyl	13.519	172	462849	64.729	ng	0.00
79) Terphenyl-d14	20.205	244	745705	58.981	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.151	128	33581	4.354	ng	# 86
37) 2-Methylnaphthalene	12.743	142	44668	7.025	ng	98
38) 1-Methylnaphthalene	12.955	142	29257m	4.927	ng	
46) 1,1'-Biphenyl	13.731	154	19720	2.742	ng	98
55) Dibenzofuran	15.288	168	22313	2.294	ng	# 81
58) Fluorene	15.934	166	32201	4.161	ng	# 90
71) Phenanthrene	17.679	178	227720	19.661	ng	100
72) Anthracene	17.767	178	58569m	4.926	ng	
73) Carbazole	18.031	167	20340	2.009	ng	# 78
75) Fluoranthene	19.671	202	283685	19.407	ng	98
78) Pyrene	20.029	202	262868	16.644	ng	98
81) Benzo(a)anthracene	21.903	228	127288	8.199	ng	99
83) Chrysene	21.968	228	116414	7.982	ng	97
87) Indeno(1,2,3-cd)pyrene	29.301	276	50167	2.814	ng	# 60
88) Benzo(b)fluoranthene	24.259	252	147187	9.736	ng	# 97
89) Benzo(k)fluoranthene	24.324	252	44716m	2.930	ng	
90) Benzo(a)pyrene	25.188	252	104094	6.990	ng	98
92) Benzo(g,h,i)perylene	30.540	276	50009m	3.463	ng	

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

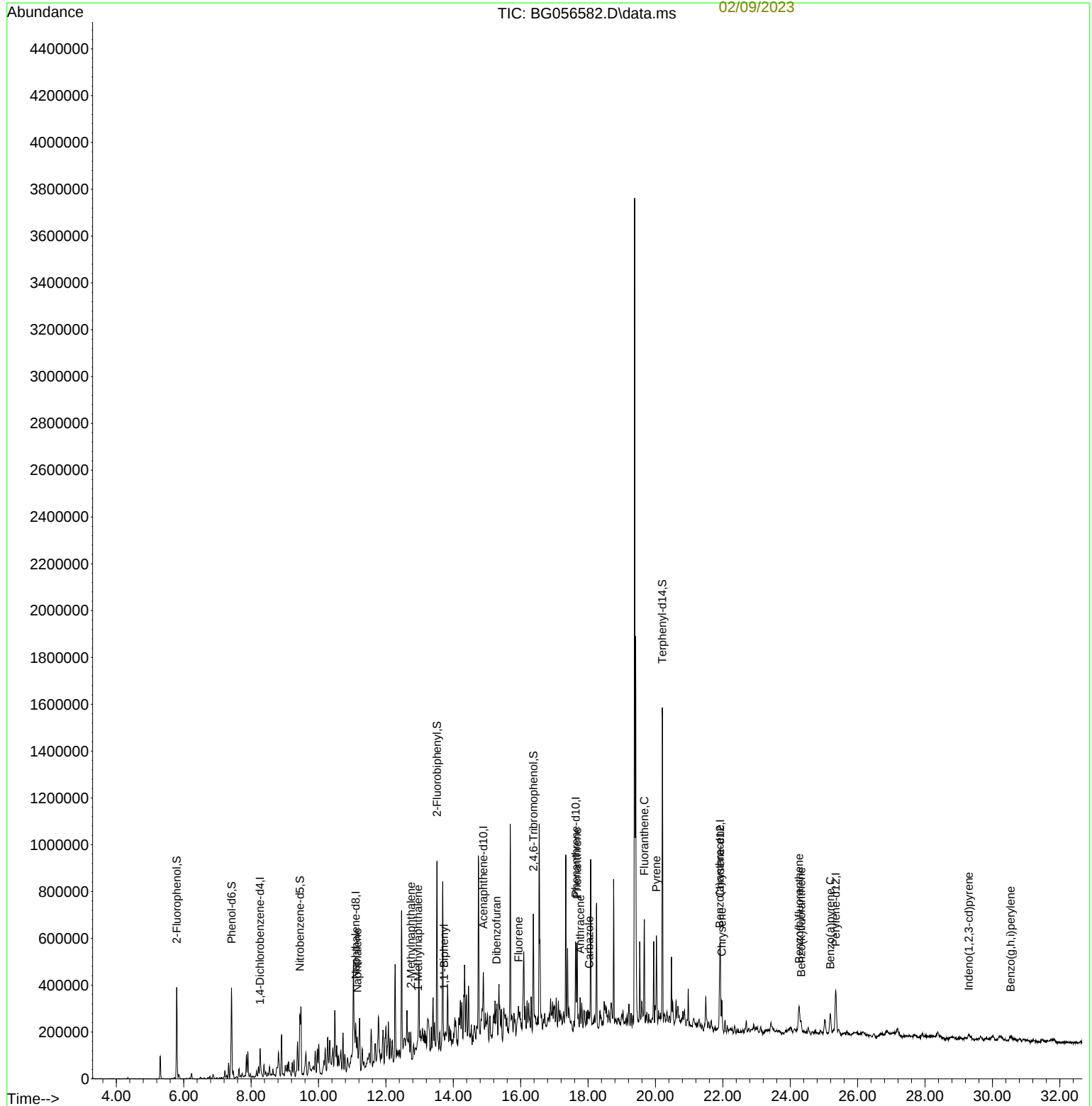
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Data File : BG056582.D
Acq On : 8 Feb 2023 15:05
Operator : CG/JU
Sample : 01477-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

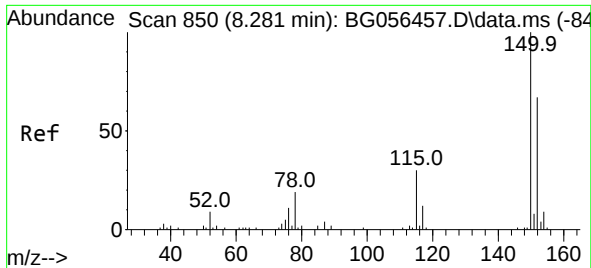
Instrument :
BNA_G
ClientSampleId :
TR-6-020723

Quant Time: Feb 09 02:07:13 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
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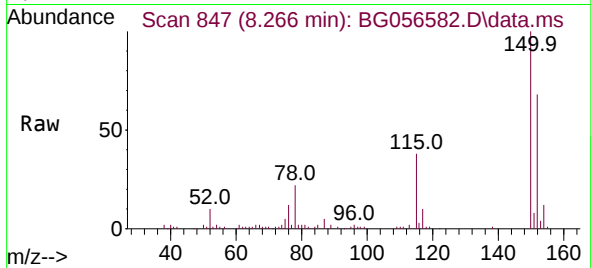
Reviewed By :Christian
Giraldo
02/09/2023
Supervised By :Jagrut
Upadhyay
02/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.266 min Scan# 847
Delta R.T. -0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :
BNA_G
ClientSampleId :
TR-6-020723

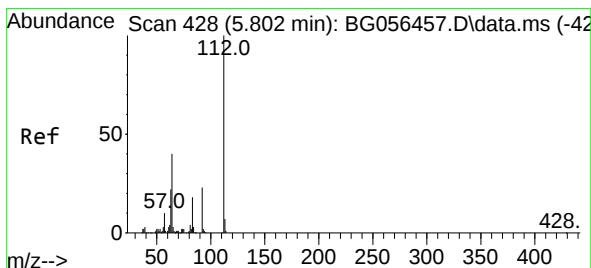
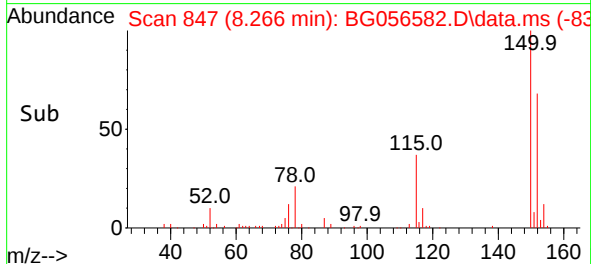
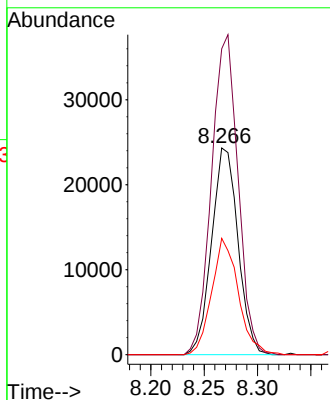


Tgt Ion:152 Resp: 41982
Ion Ratio Lower Upper
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150 148.0 120.2 180.4
115 56.2 36.3 54.5

Manual Integrations
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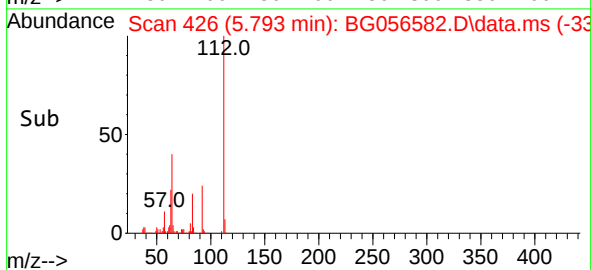
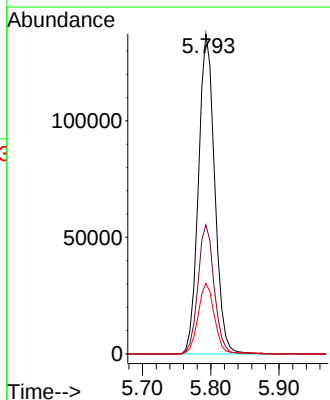
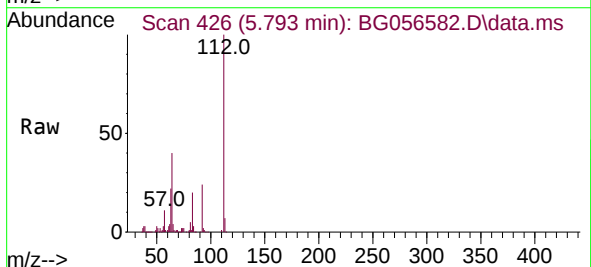
Reviewed By :Christian
Giraldo
02/09/2023

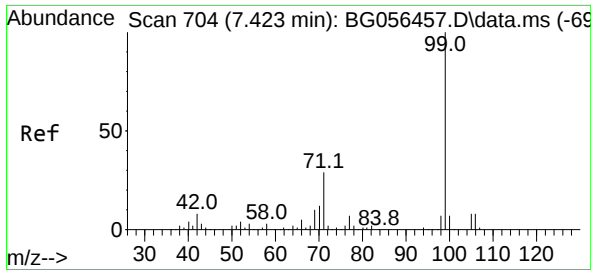
Supervised By :Jagrut
Upadhyay
02/09/2023



#5
2-Fluorophenol
Concen: 99.435 ng
RT: 5.793 min Scan# 426
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

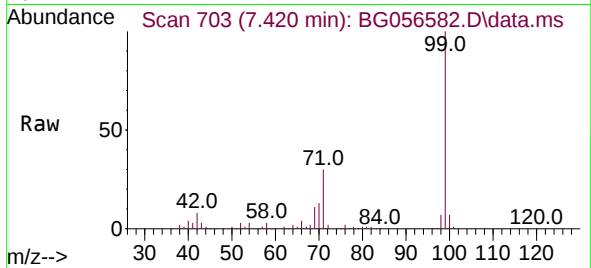
Tgt Ion:112 Resp: 226927
Ion Ratio Lower Upper
112 100
64 40.3 31.9 47.9
63 22.0 17.4 26.0





#7
Phenol-d6
Concen: 88.353 ng
RT: 7.420 min Scan# 704
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :
BNA_G
ClientSampleId :
TR-6-020723

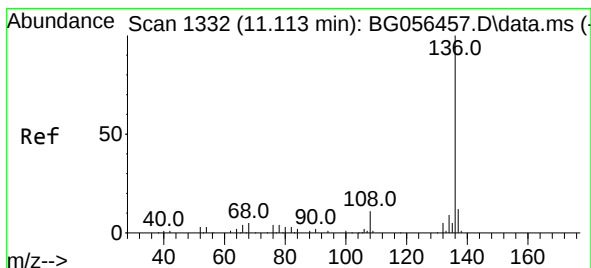
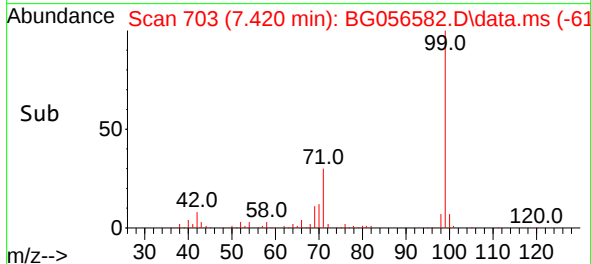
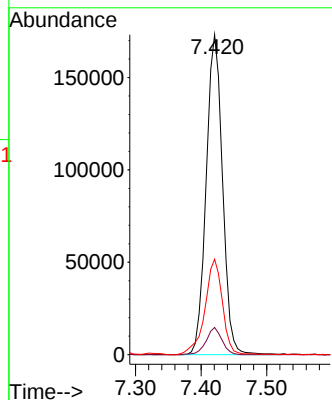


Tgt Ion: 99 Resp: 29875
Ion Ratio Lower Upper
99 100
42 8.5 6.6 10.0
71 29.8 23.4 35.0

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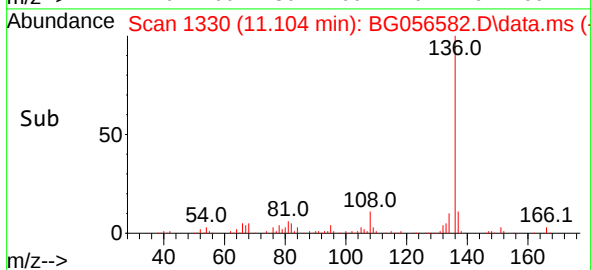
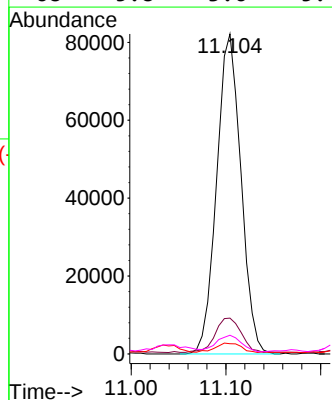
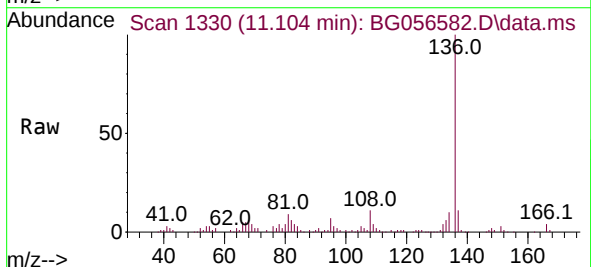
Reviewed By :Christian
Giraldo
02/09/2023

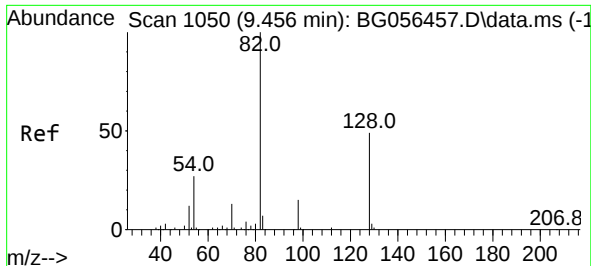
Supervised By :Jagrut
Upadhyay
02/09/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.104 min Scan# 1330
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:136 Resp: 146122
Ion Ratio Lower Upper
136 100
137 11.2 9.4 14.0
54 3.2 2.2 3.4
68 5.8 3.6 5.4#





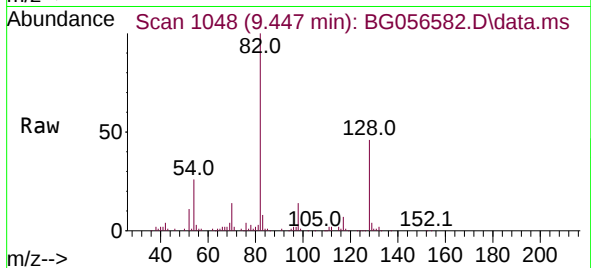
#23
Nitrobenzene-d5
Concen: 63.285 ng
RT: 9.447 min Scan# 1050
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723

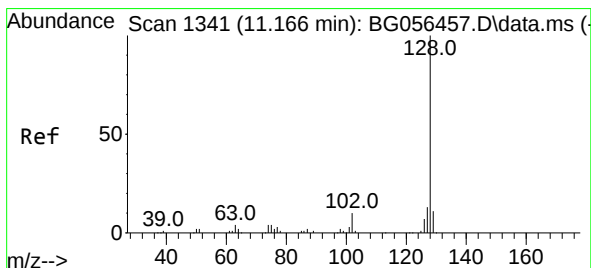
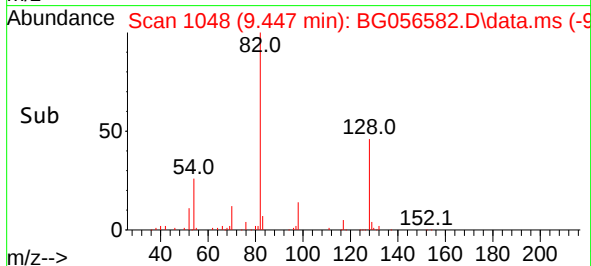
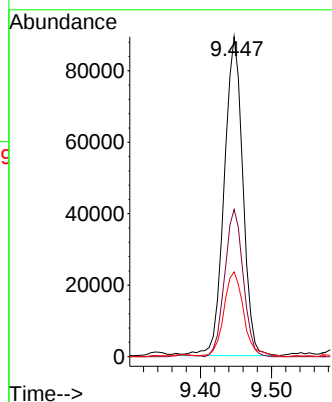


Tgt Ion: 82 Resp: 162847
Ion Ratio Lower Upper
82 100
128 46.0 39.4 59.2
54 26.5 21.4 32.2

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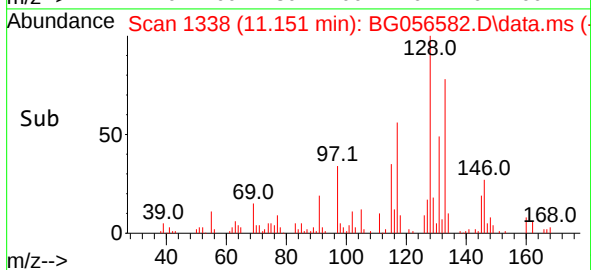
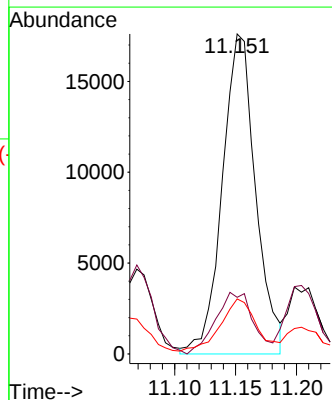
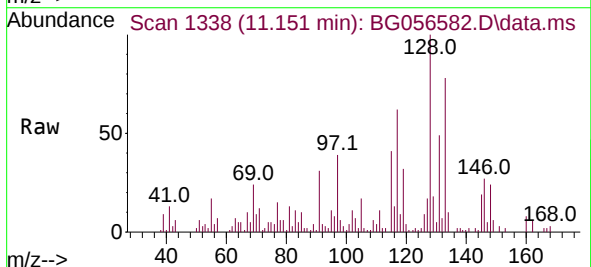
Reviewed By :Christian
Giraldo
02/09/2023

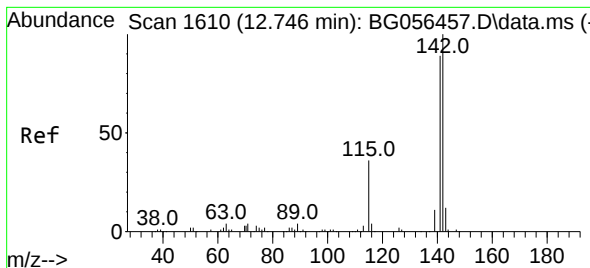
Supervised By :Jagrut
Upadhyay
02/09/2023



#31
Naphthalene
Concen: 4.354 ng
RT: 11.151 min Scan# 1338
Delta R.T. -0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:128 Resp: 33581
Ion Ratio Lower Upper
128 100
129 17.7 8.7 13.1#
127 17.2 10.4 15.6#





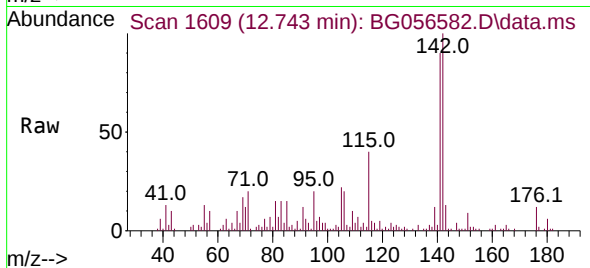
#37
2-Methylnaphthalene
Concen: 7.025 ng
RT: 12.743 min Scan# 1609
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723

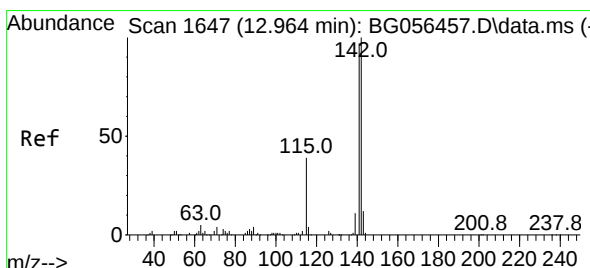
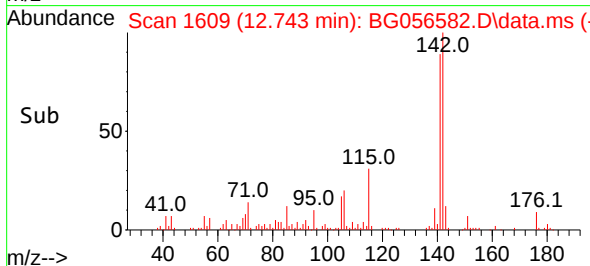
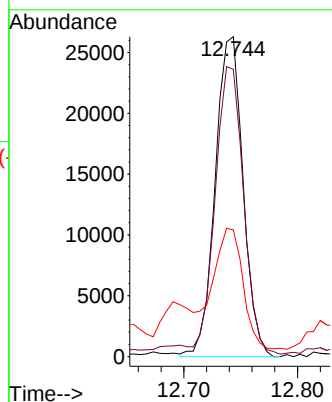


Tgt Ion:142 Resp: 44668
Ion Ratio Lower Upper
142 100
141 89.8 71.4 107.0
115 39.6 28.4 42.6

Manual Integrations
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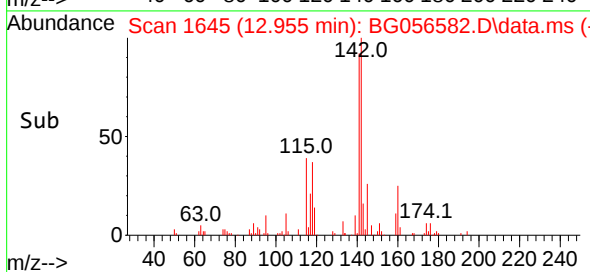
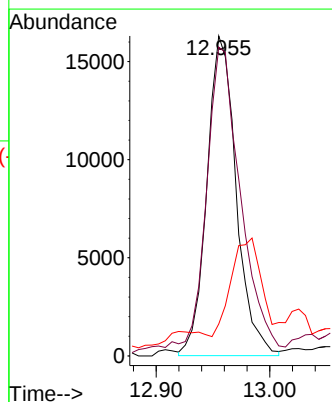
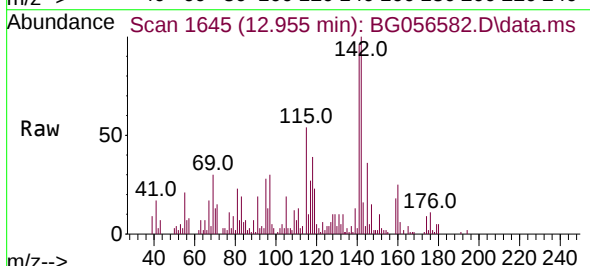
Reviewed By :Christian
Giraldo
02/09/2023

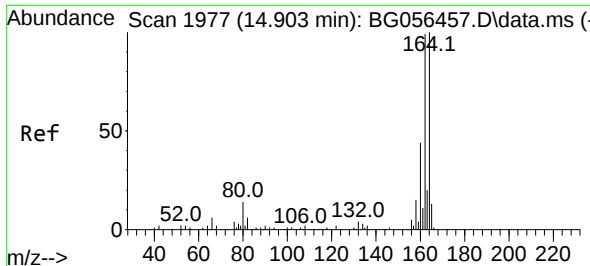
Supervised By :Jagrut
Upadhyay
02/09/2023



#38
1-Methylnaphthalene
Concen: 4.927 ng m
RT: 12.955 min Scan# 1645
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:142 Resp: 29257
Ion Ratio Lower Upper
142 100
141 96.5 77.7 116.5
116 10.0 3.4 5.2#





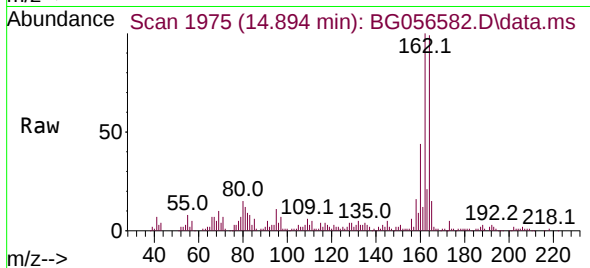
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.894 min Scan# 1975
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723



Tgt Ion:164 Resp: 99138
Ion Ratio Lower Upper
164 100
162 101.4 79.6 119.4
160 45.0 34.9 52.3

Manual Integrations
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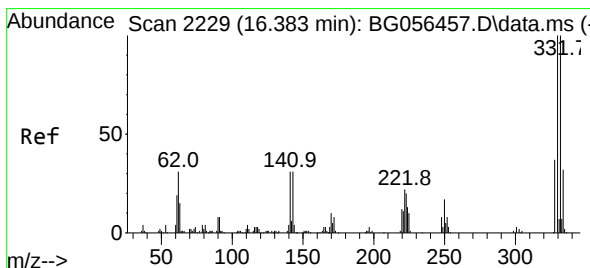
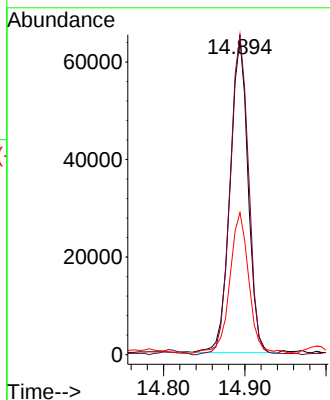
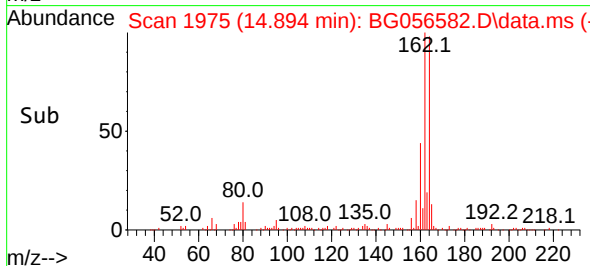
Reviewed By :Christian
Giraldo

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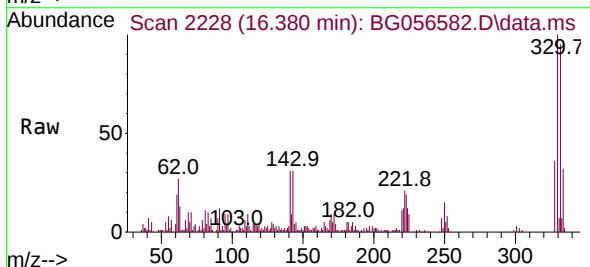
Supervised By :Jagrut

Upadhyay

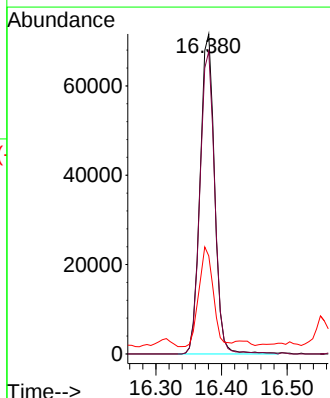
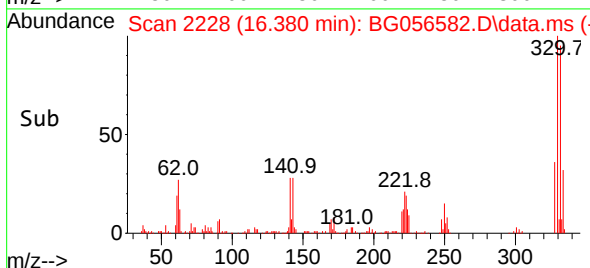
02/09/2023

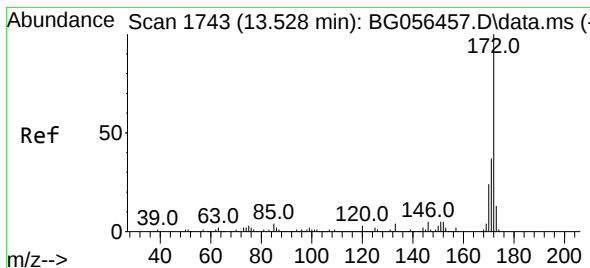


#42
2,4,6-Tribromophenol
Concen: 82.909 ng
RT: 16.380 min Scan# 2228
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05



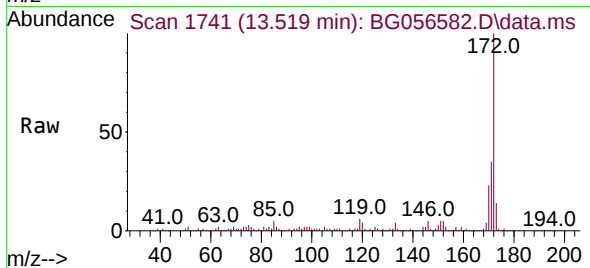
Tgt Ion:330 Resp: 109272
Ion Ratio Lower Upper
330 100
332 96.3 79.0 118.6
141 31.1 24.2 36.4





#45
2-Fluorobiphenyl
Concen: 64.729 ng
RT: 13.519 min Scan# 1743
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

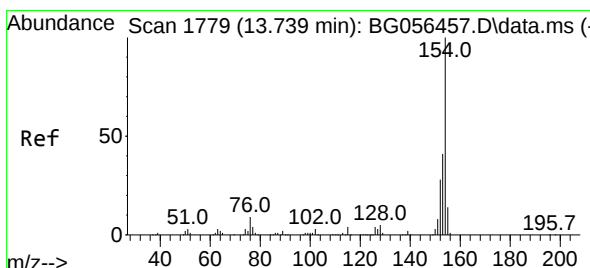
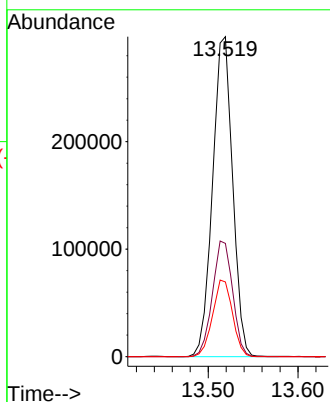
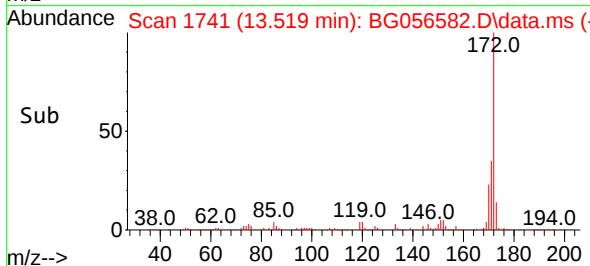
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BNA_G
ClientSampleId :
TR-6-020723



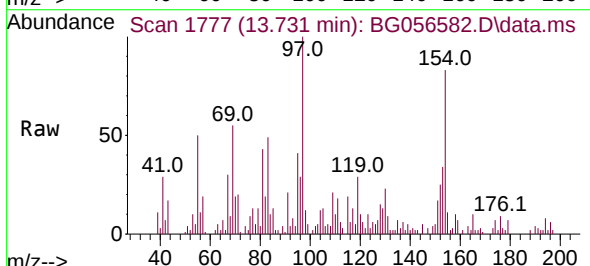
Tgt Ion:172 Resp: 462849
Ion Ratio Lower Upper
172 100
171 35.4 29.5 44.3
170 23.3 19.2 28.8

Manual Integrations
APPROVED

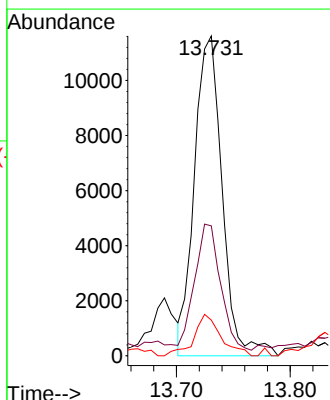
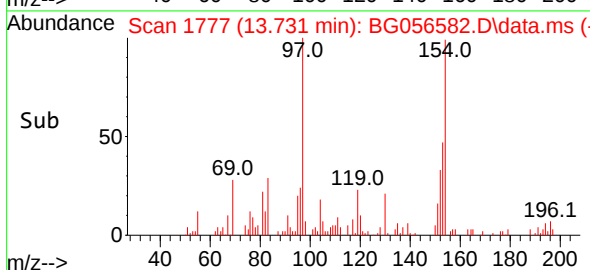
Reviewed By :Christian
Giraldo
02/09/2023
Supervised By :Jagrut
Upadhyay
02/09/2023

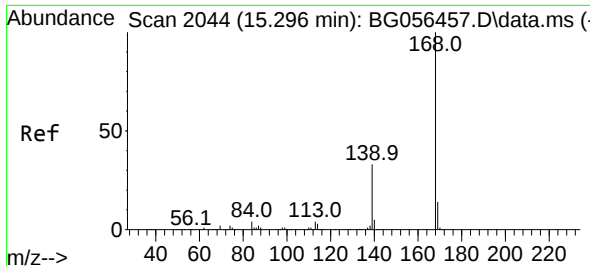


#46
1,1'-Biphenyl
Concen: 2.742 ng
RT: 13.731 min Scan# 1777
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05



Tgt Ion:154 Resp: 19720
Ion Ratio Lower Upper
154 100
153 40.6 21.5 61.5
76 11.2 0.0 28.8





#55
Dibenzenofuran
Concen: 2.294 ng
RT: 15.288 min Scan# 2044
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

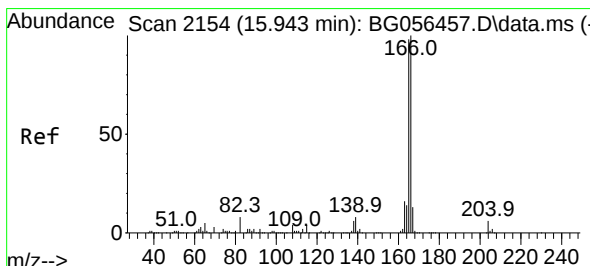
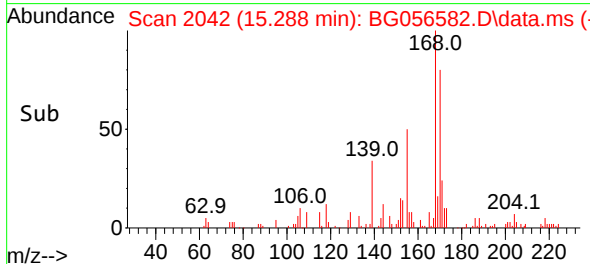
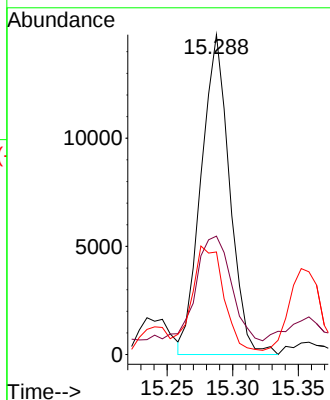
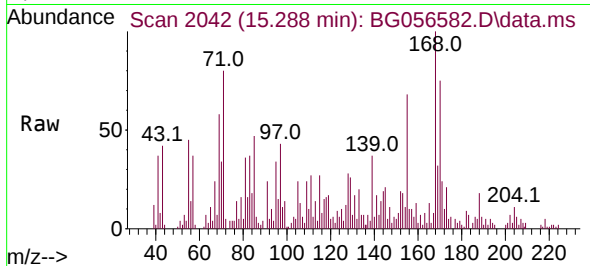
TR-6-020723

Tgt Ion:168 Resp: 22313
Ion Ratio Lower Upper
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139 37.0 26.2 39.2
169 32.1 11.0 16.6

Manual Integrations
APPROVED

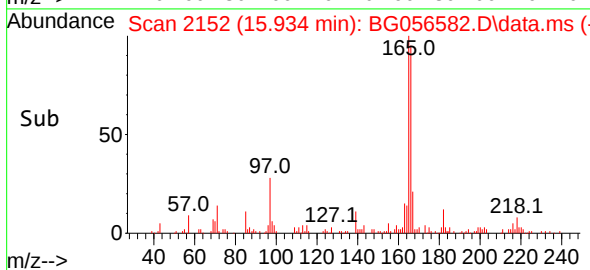
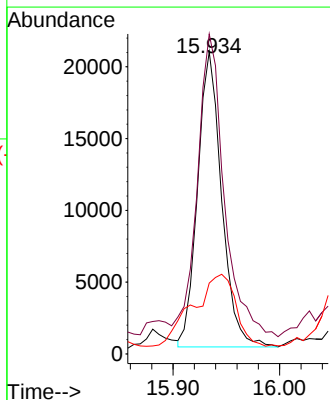
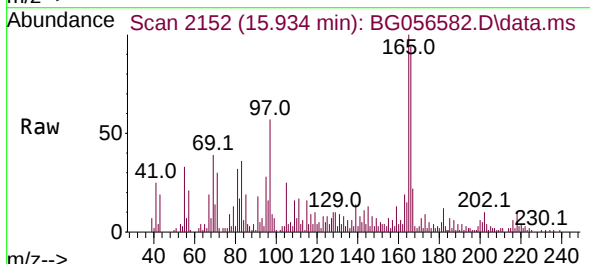
Reviewed By :Christian
Giraldo
02/09/2023

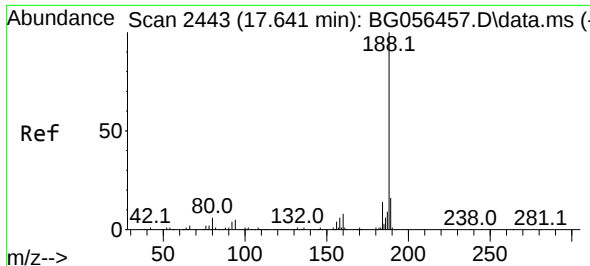
Supervised By :Jagrut
Upadhyay
02/09/2023



#58
Fluorene
Concen: 4.161 ng
RT: 15.934 min Scan# 2152
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

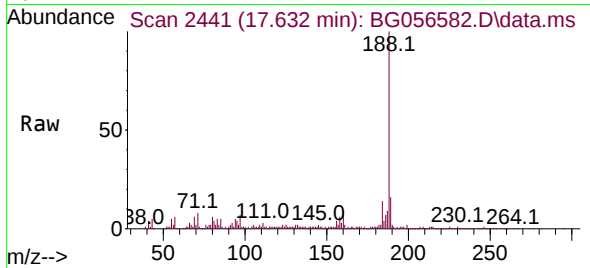
Tgt Ion:166 Resp: 32201
Ion Ratio Lower Upper
166 100
165 105.9 78.8 118.2
167 23.4 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.632 min Scan# 2443
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :
BNA_G
ClientSampleId :
TR-6-020723

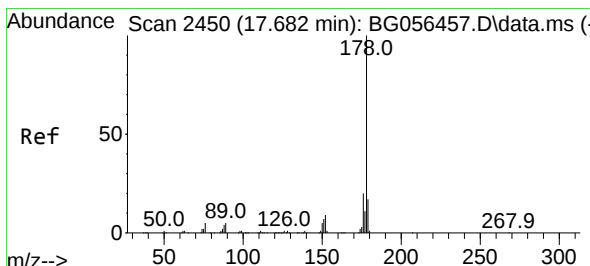
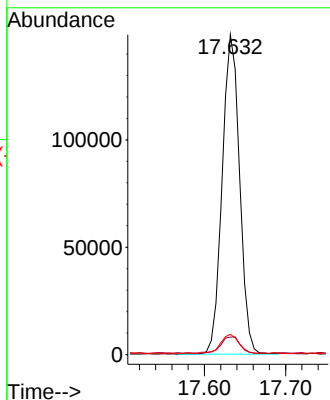
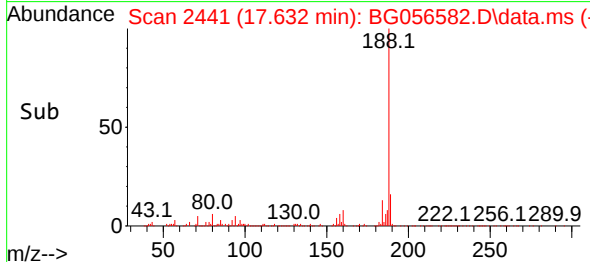


Tgt Ion:188 Resp: 221294
Ion Ratio Lower Upper
188 100
94 5.5 4.1 6.1
80 6.3 5.0 7.4

Manual Integrations
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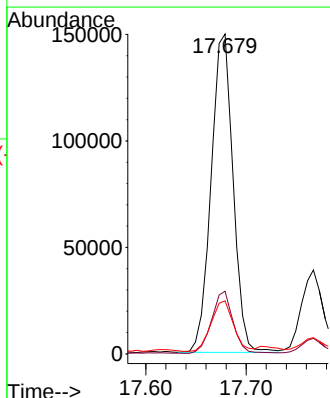
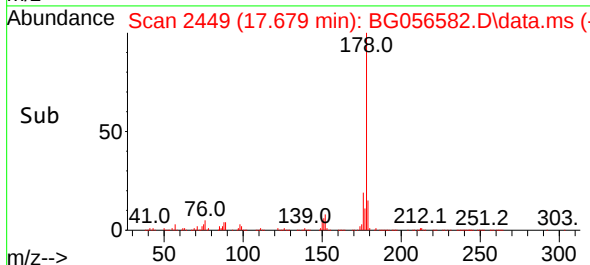
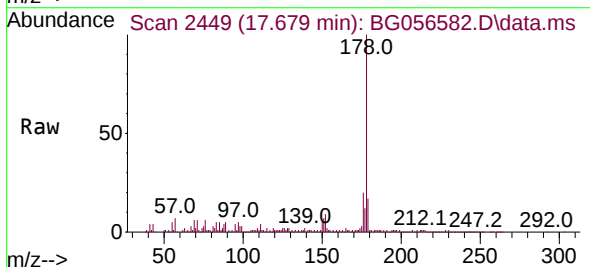
Reviewed By :Christian
Giraldo
02/09/2023

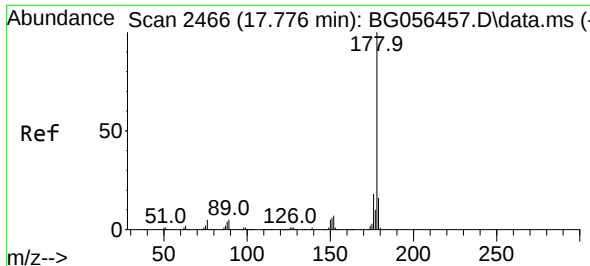
Supervised By :Jagrut
Upadhyay
02/09/2023



#71
Phenanthrene
Concen: 19.661 ng
RT: 17.679 min Scan# 2449
Delta R.T. 0.009 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

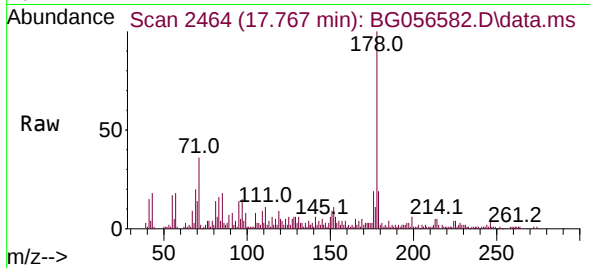
Tgt Ion:178 Resp: 227720
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 16.6 13.3 19.9





#72
 Anthracene
 Concen: 4.926 ng m
 RT: 17.767 min Scan# 2466
 Delta R.T. 0.003 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

Instrument :
 BNA_G
 ClientSampleId :
 TR-6-020723

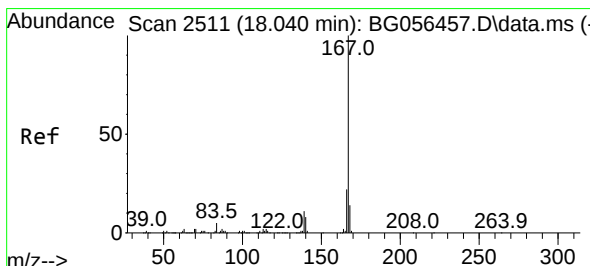
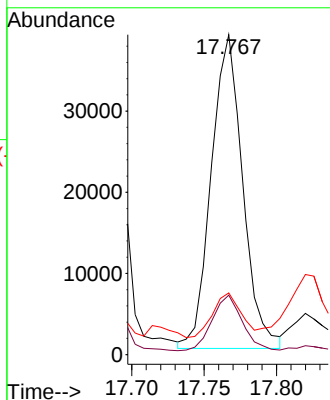
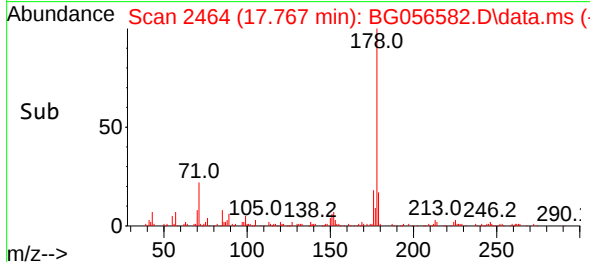


Tgt Ion:178 Resp: 58569
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.5 21.7
 179 19.3 12.5 18.7

Manual Integrations
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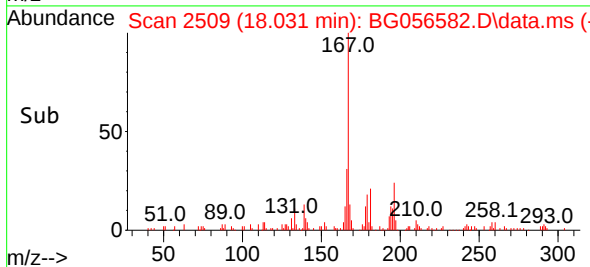
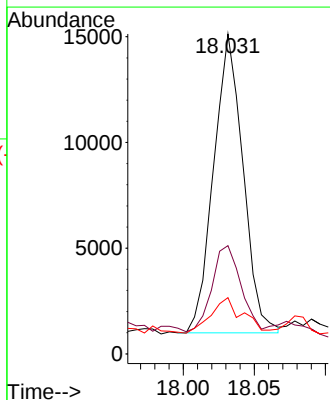
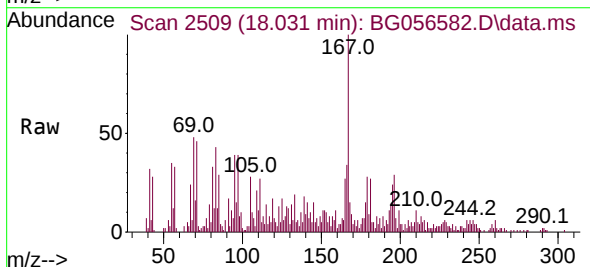
Reviewed By :Christian
 Giraldo
 02/09/2023

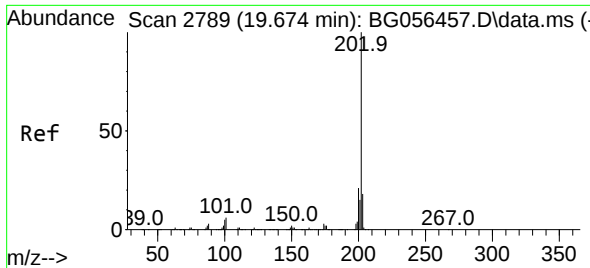
Supervised By :Jagrut
 Upadhyay
 02/09/2023



#73
 Carbazole
 Concen: 2.009 ng
 RT: 18.031 min Scan# 2509
 Delta R.T. 0.003 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

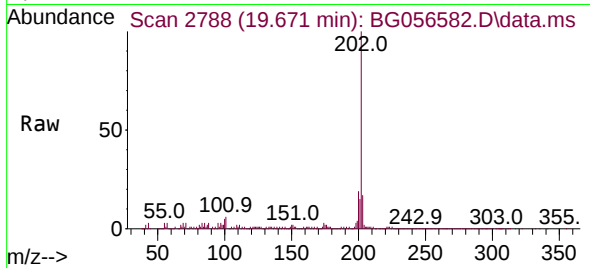
Tgt Ion:167 Resp: 20340
 Ion Ratio Lower Upper
 167 100
 166 33.8 17.8 26.6#
 139 17.6 8.9 13.3#





#75
Fluoranthene
Concen: 19.407 ng
RT: 19.671 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :
BNA_G
ClientSampleId :
TR-6-020723

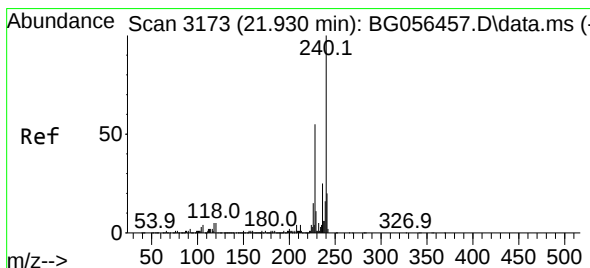
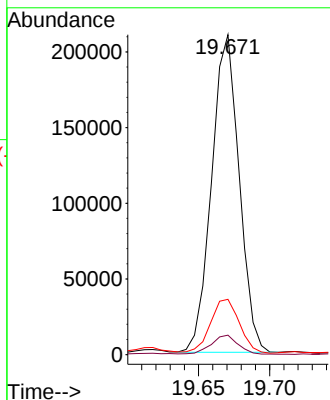
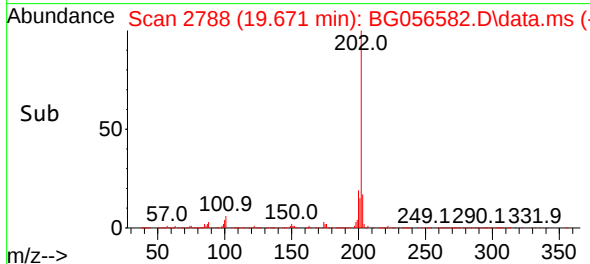


Tgt Ion:202 Resp: 283685
Ion Ratio Lower Upper
202 100
101 6.1 0.0 25.6
203 17.3 0.0 38.1

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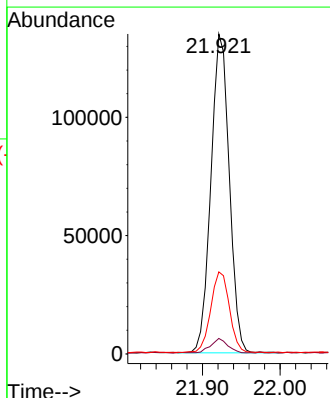
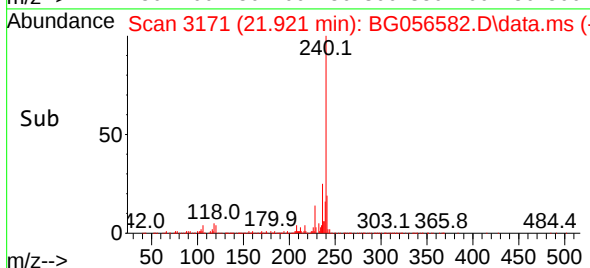
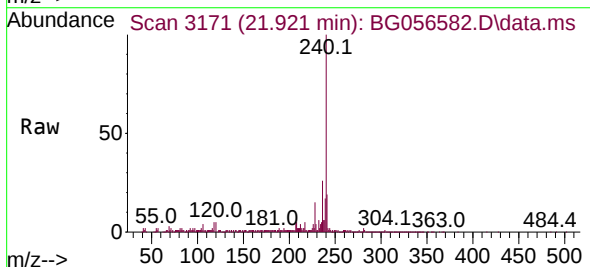
Reviewed By :Christian
Giraldo
02/09/2023

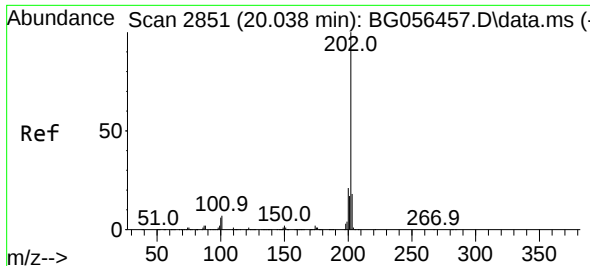
Supervised By :Jagrut
Upadhyay
02/09/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.921 min Scan# 3171
Delta R.T. -0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

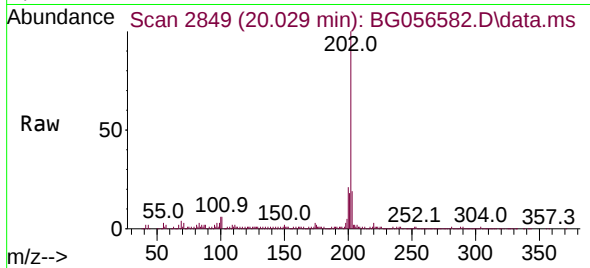
Tgt Ion:240 Resp: 222061
Ion Ratio Lower Upper
240 100
120 4.8 3.8 5.8
236 25.6 20.2 30.2





#78
Pyrene
Concen: 16.644 ng
RT: 20.029 min Scan# 2849
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Instrument :
BNA_G
ClientSampleId :
TR-6-020723

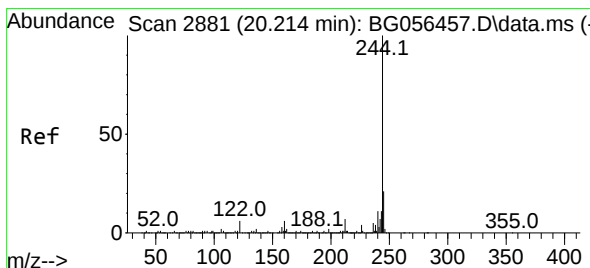
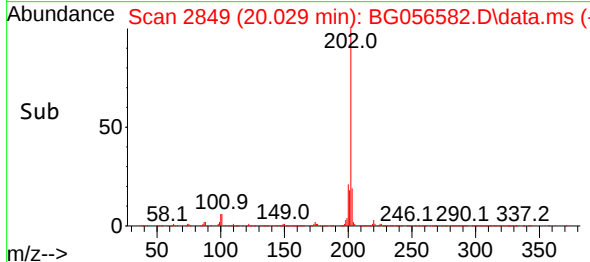
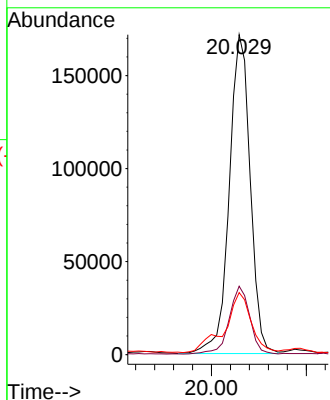


Tgt Ion:202 Resp: 262868
Ion Ratio Lower Upper
202 100
200 21.4 16.7 25.1
203 19.4 14.4 21.6

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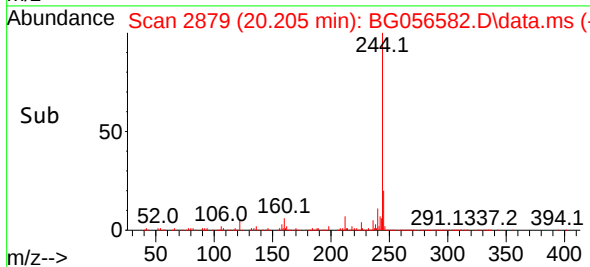
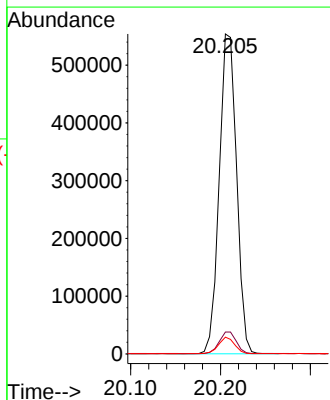
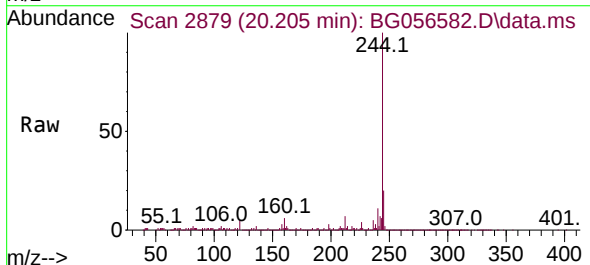
Reviewed By :Christian
Giraldo
02/09/2023

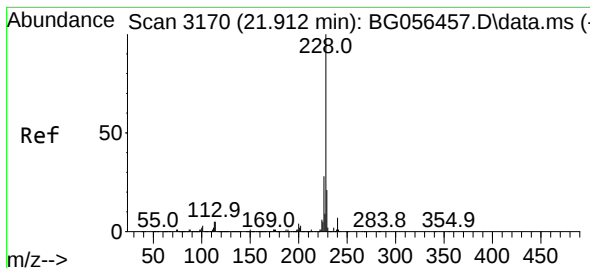
Supervised By :Jagrut
Upadhyay
02/09/2023



#79
Terphenyl-d14
Concen: 58.981 ng
RT: 20.205 min Scan# 2879
Delta R.T. -0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:244 Resp: 745705
Ion Ratio Lower Upper
244 100
212 6.8 5.5 8.3
122 5.3 4.4 6.6





#81

Benzo(a)anthracene

Concen: 8.199 ng

RT: 21.903 min Scan# 3170

Delta R.T. 0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723

Tgt Ion:228 Resp: 127288

Ion Ratio Lower Upper

228 100

226 28.1 22.4 33.6

229 22.0 16.5 24.7

Manual Integrations

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Reviewed By :Christian

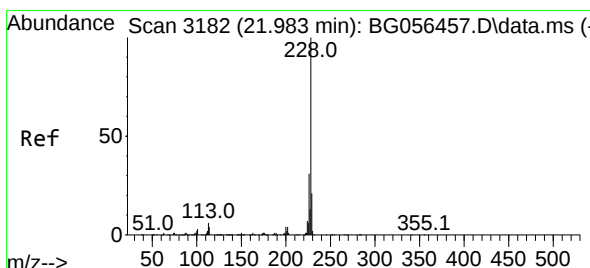
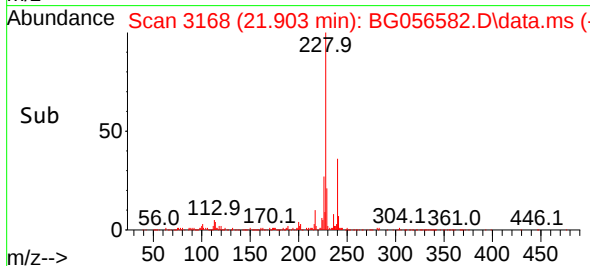
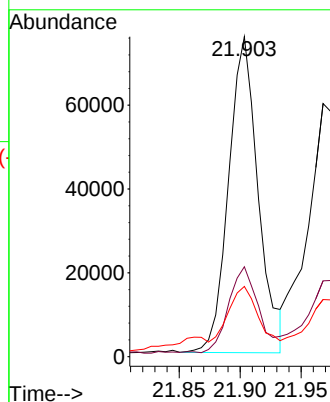
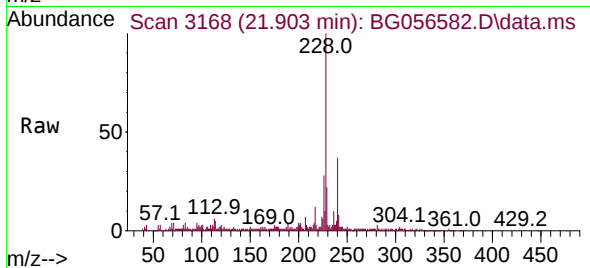
Giraldo

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Supervised By :Jagrut

Upadhyay

02/09/2023



#83

Chrysene

Concen: 7.982 ng

RT: 21.968 min Scan# 3179

Delta R.T. -0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

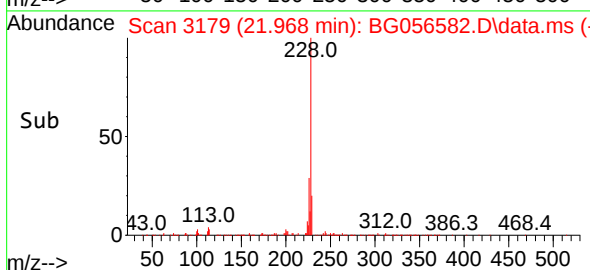
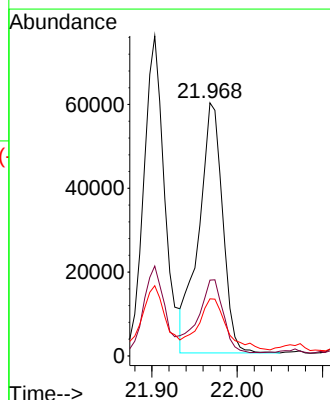
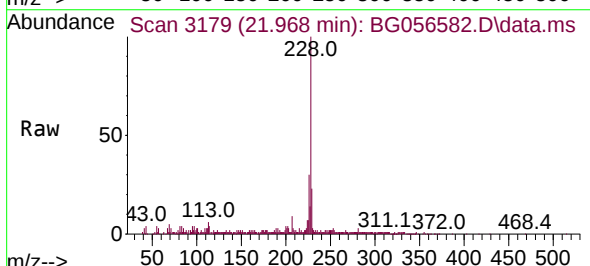
Tgt Ion:228 Resp: 116414

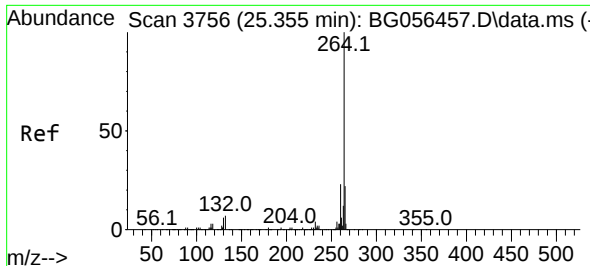
Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.4

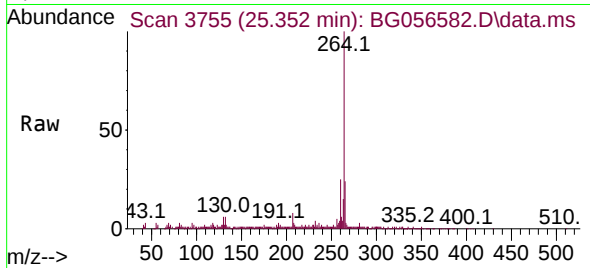
229 22.5 16.4 24.6





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.352 min Scan# 31
 Delta R.T. 0.015 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

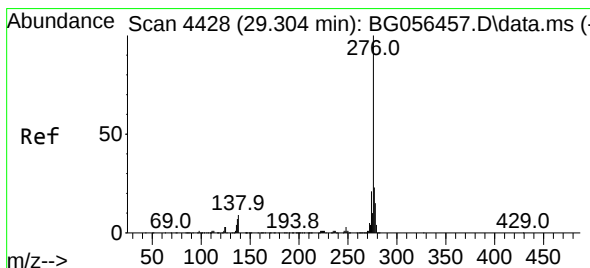
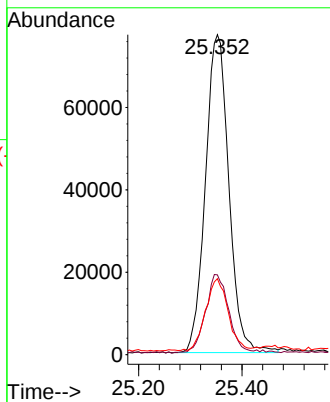
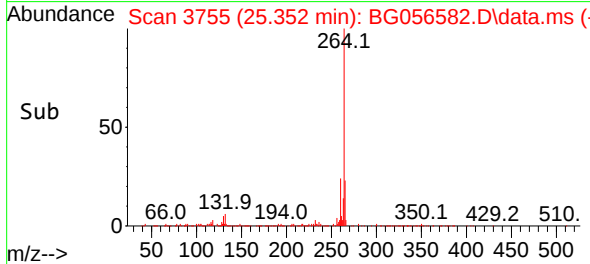
Instrument :
 BNA_G
 ClientSampleId :
 TR-6-020723



Tgt Ion:264 Resp: 243568
 Ion Ratio Lower Upper
 264 100
 260 24.9 18.2 27.4
 265 23.7 18.1 27.1

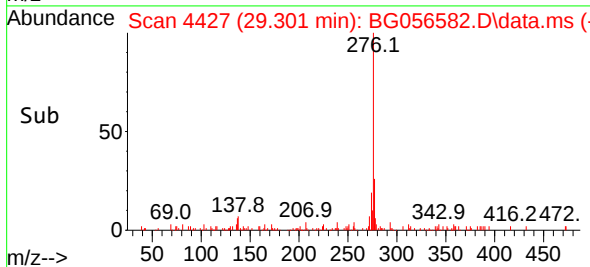
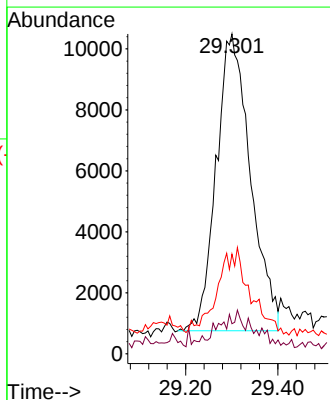
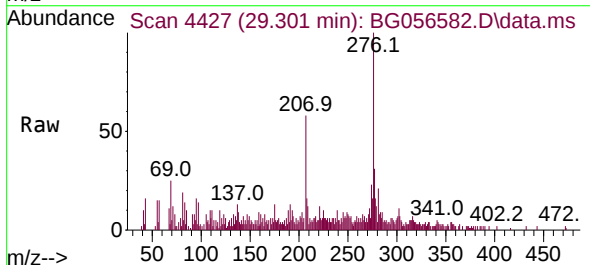
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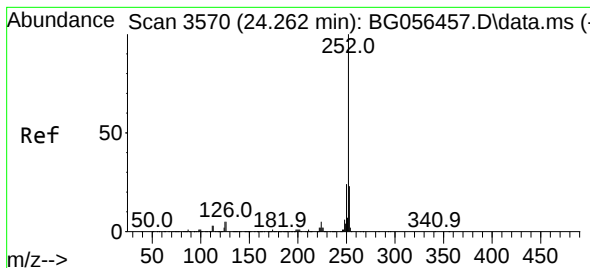
Reviewed By :Christian
 Giraldo
 02/09/2023
 Supervised By :Jagrut
 Upadhyay
 02/09/2023



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.814 ng
 RT: 29.301 min Scan# 4427
 Delta R.T. 0.015 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

Tgt Ion:276 Resp: 50167
 Ion Ratio Lower Upper
 276 100
 138 5.3 9.4 14.2#
 277 0.0 20.3 30.5#





#88

Benzo(b)fluoranthene

Concen: 9.736 ng

RT: 24.259 min Scan# 3569

Delta R.T. 0.009 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

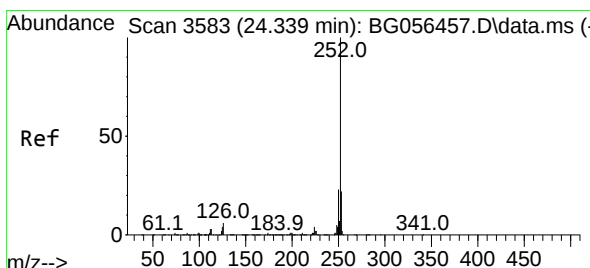
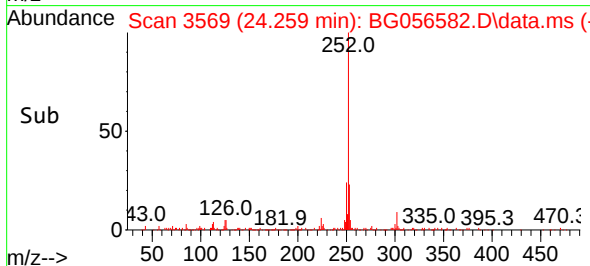
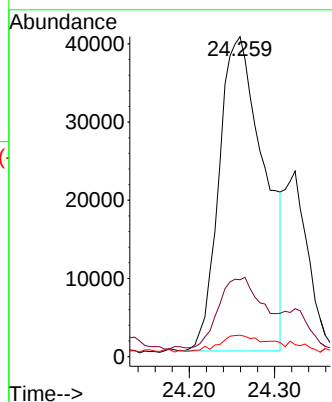
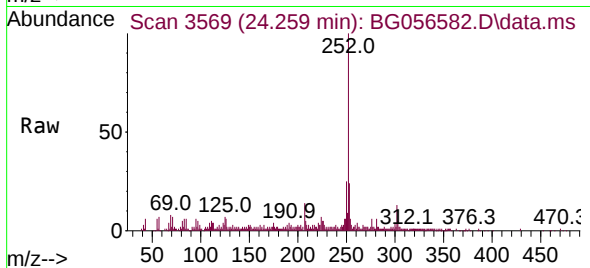
TR-6-020723

Tgt Ion:252 Resp: 147187
 Ion Ratio Lower Upper
 252 100
 253 24.0 18.1 27.1
 125 6.7 3.9 5.9

Manual Integrations
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Reviewed By :Christian
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 02/09/2023

Supervised By :Jagrut
 Upadhyay
 02/09/2023



#89

Benzo(k)fluoranthene

Concen: 2.930 ng m

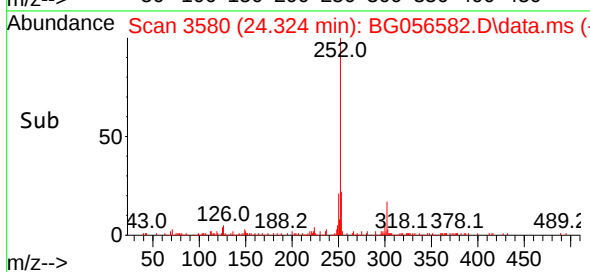
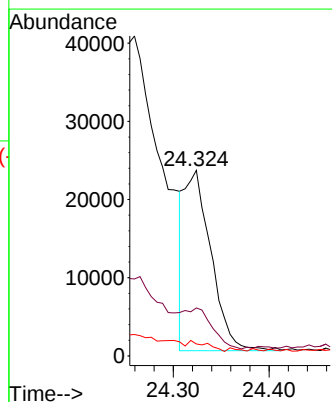
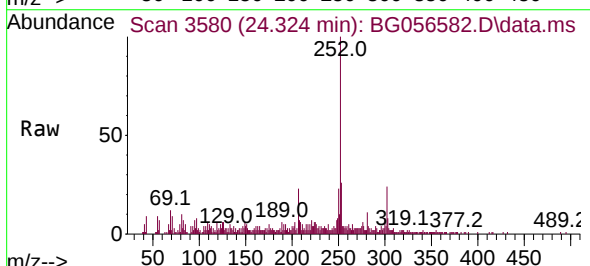
RT: 24.324 min Scan# 3580

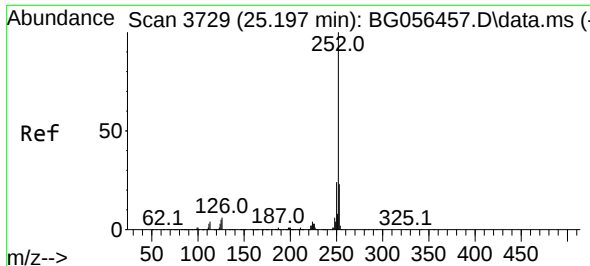
Delta R.T. 0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

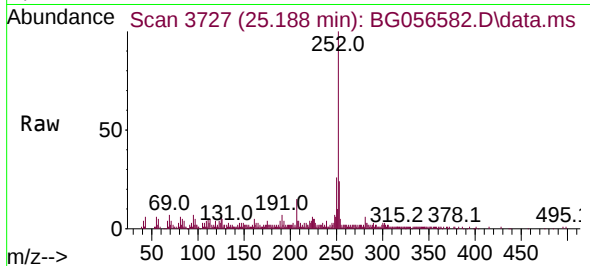
Tgt Ion:252 Resp: 44716
 Ion Ratio Lower Upper
 252 100
 253 25.8 17.5 26.3
 125 6.4 3.4 5.0





#90
Benzo(a)pyrene
Concen: 6.990 ng
RT: 25.188 min Scan# 31
Delta R.T. 0.009 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

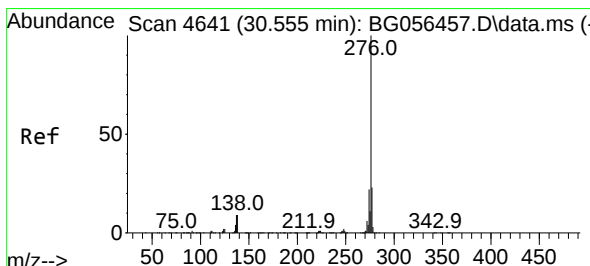
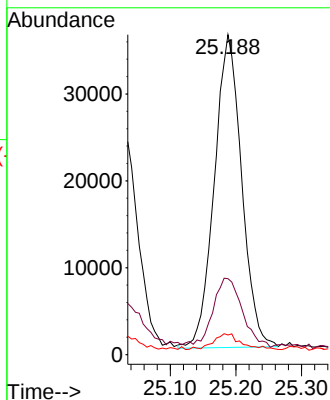
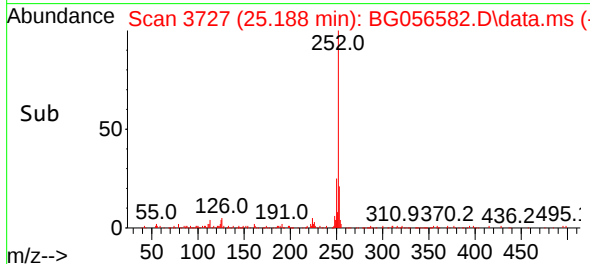
Instrument :
BNA_G
ClientSampleId :
TR-6-020723



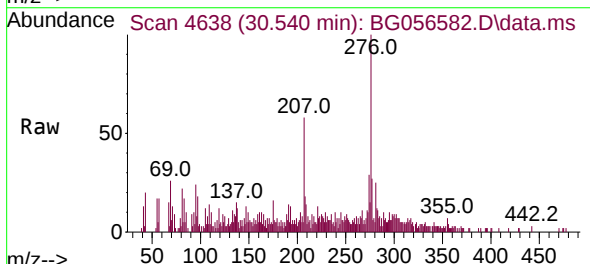
Tgt Ion:252 Resp: 104094
Ion Ratio Lower Upper
252 100
253 23.7 18.4 27.6
125 6.1 4.1 6.1

Manual Integrations
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Reviewed By :Christian
Giraldo
02/09/2023
Supervised By :Jagrut
Upadhyay
02/09/2023



#92
Benzo(g,h,i)perylene
Concen: 3.463 ng m
RT: 30.540 min Scan# 4638
Delta R.T. 0.015 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05



Tgt Ion:276 Resp: 50009
Ion Ratio Lower Upper
276 100
277 26.6 18.5 27.7
138 12.2 7.4 11.0#

