

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
 Data File : BG056629.D
 Acq On : 13 Feb 2023 21:31
 Operator : CG/JU
 Sample : 01526-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-021023

Quant Time: Feb 14 02:09:37 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 10 22:46:08 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 02/14/2023
 Supervised By : Jagrut Upadhyay 02/14/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.212	152	49330	20.000	ng	0.00
21) Naphthalene-d8	11.044	136	180246	20.000	ng	0.00
39) Acenaphthene-d10	14.845	164	121601	20.000	ng	0.00
64) Phenanthrene-d10	17.589	188	266888	20.000	ng	0.00
76) Chrysene-d12	21.878	240	263247	20.000	ng	0.02
86) Perylene-d12	25.280	264	273613	20.000	ng	# 0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.738	112	117948	43.984	ng	0.01
7) Phenol-d6	7.372	99	157131	39.547	ng	0.00
23) Nitrobenzene-d5	9.393	82	82070	25.855	ng	0.00
42) 2,4,6-Tribromophenol	16.332	330	61110	37.801	ng	0.00
45) 2-Fluorobiphenyl	13.465	172	268600	30.624	ng	0.00
79) Terphenyl-d14	20.163	244	416771	27.807	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.097	128	96581	10.152	ng	99
37) 2-Methylnaphthalene	12.683	142	102154	13.025	ng	98
38) 1-Methylnaphthalene	12.906	142	106792	14.579	ng	95
46) 1,1'-Biphenyl	13.676	154	27449	3.112	ng	100
49) Acenaphthylene	14.575	152	70694	6.303	ng	98
52) Acenaphthene	14.910	154	136549	20.529	ng	96
55) Dibenzofuran	15.239	168	175872	14.744	ng	98
58) Fluorene	15.885	166	359473	37.872	ng	99
71) Phenanthrene	17.642	178	3101519	222.037	ng	94
72) Anthracene	17.724	178	826322	57.628	ng	98
73) Carbazole	17.989	167	219285	17.956	ng	99
75) Fluoranthene	19.640	202	4011332	227.531	ng	91
78) Pyrene	20.004	202	3855086	205.905	ng	# 88
81) Benzo(a)anthracene	21.861	228	2301055	125.031	ng	94
83) Chrysene	21.931	228	2078925m	120.237	ng	
87) Indeno(1,2,3-cd)pyrene	29.199	276	667320	33.318	ng	# 94
88) Benzo(b)fluoranthene	24.217	252	2317127	136.439	ng	98
89) Benzo(k)fluoranthene	24.270	252	1047019m	61.063	ng	
90) Benzo(a)pyrene	25.139	252	2007438	119.996	ng	99
91) Dibenzo(a,h)anthracene	29.223	278	182732	10.869	ng	# 84
92) Benzo(g,h,i)perylene	30.427	276	583096	35.945	ng	96

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

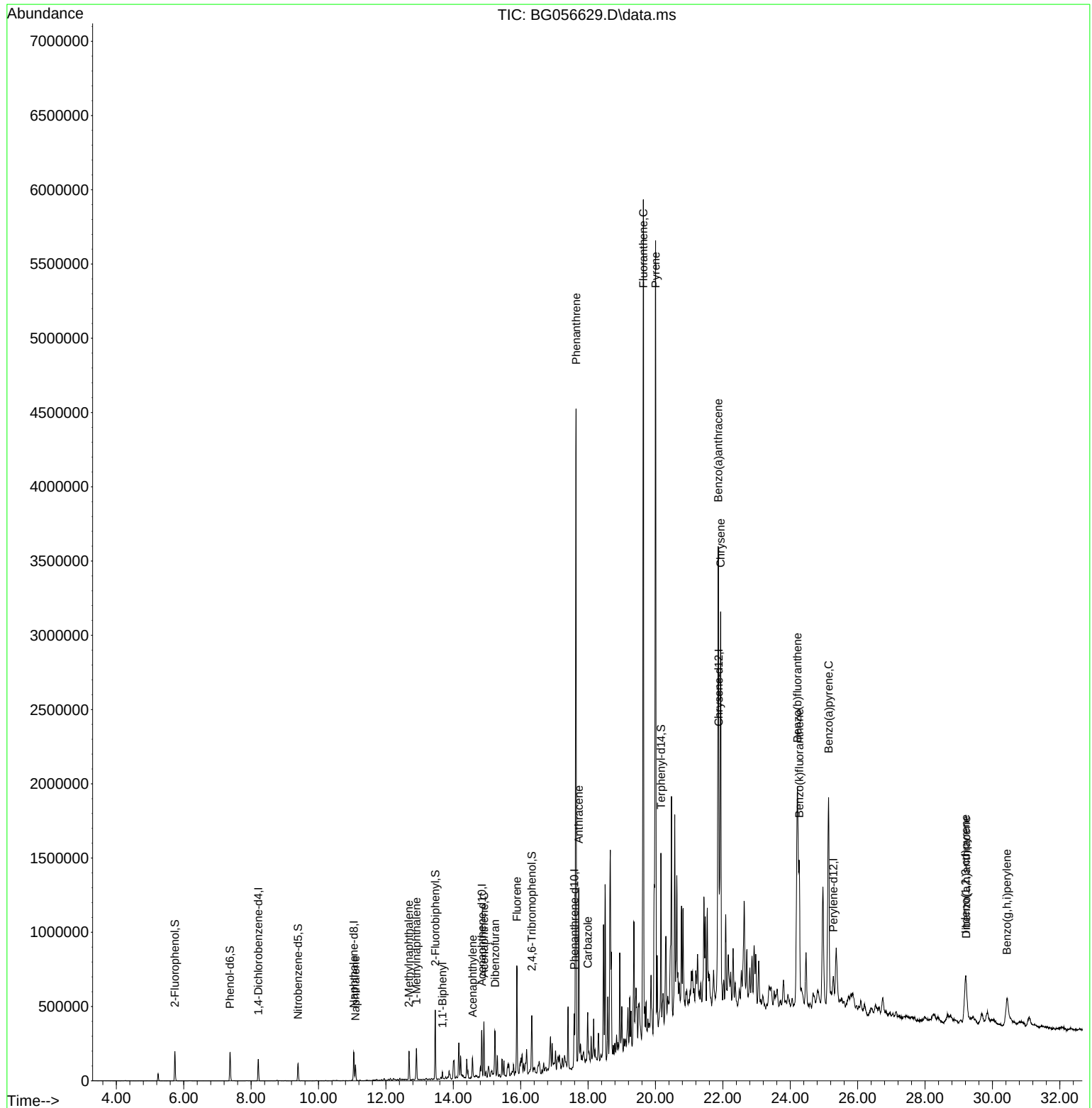
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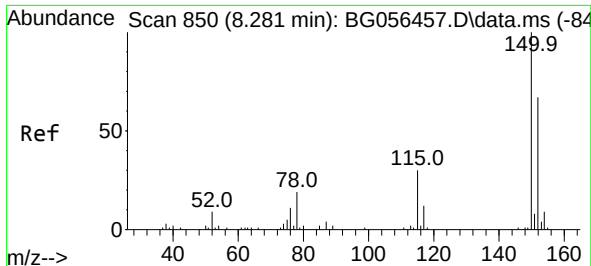
Instrument :
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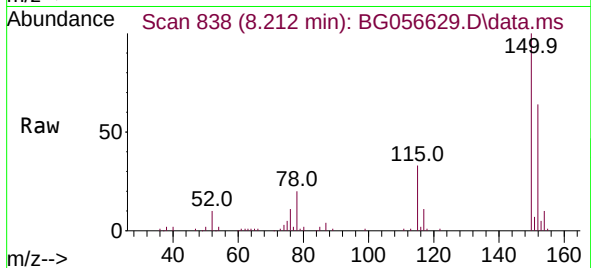
Reviewed By : Christian Giraldo 02/14/2023
Supervised By : Jagrut Upadhyay 02/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.212 min Scan# 84
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

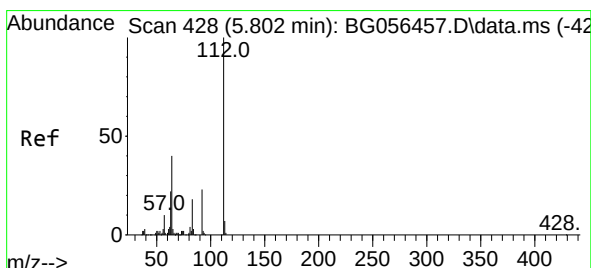
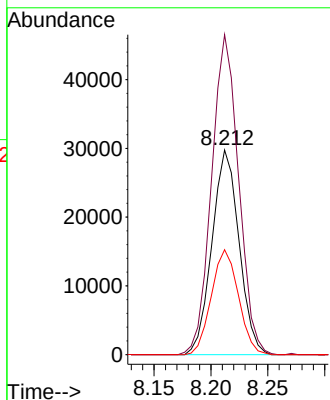
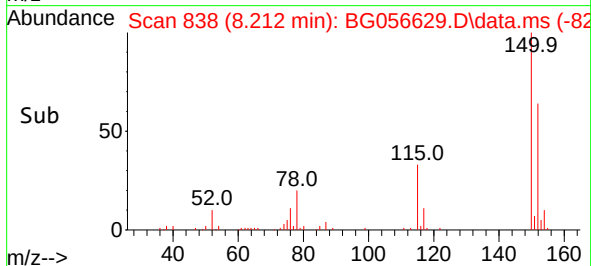
Instrument :
BNA_G
ClientSampleId :
PL-01-021023



Tgt Ion:152 Resp: 49330
Ion Ratio Lower Upper
152 100
150 156.4 120.2 180.4
115 51.3 36.3 54.5

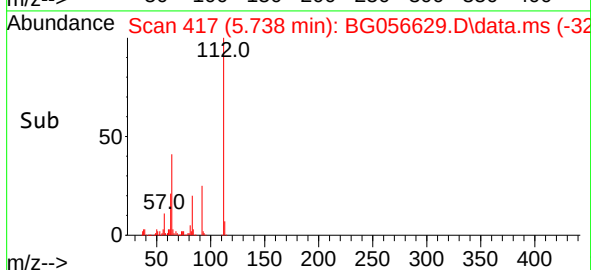
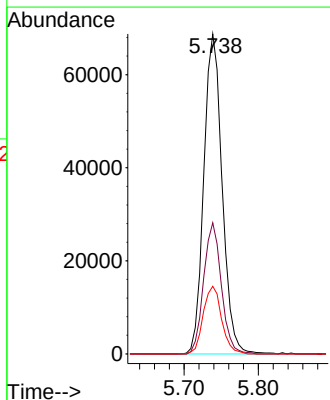
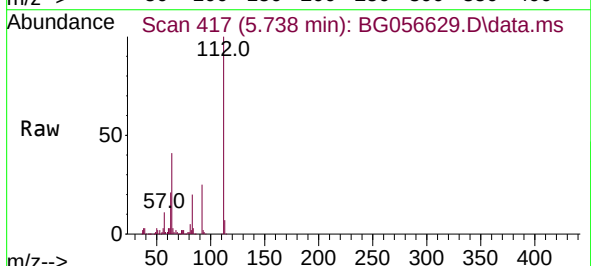
Manual Integrations
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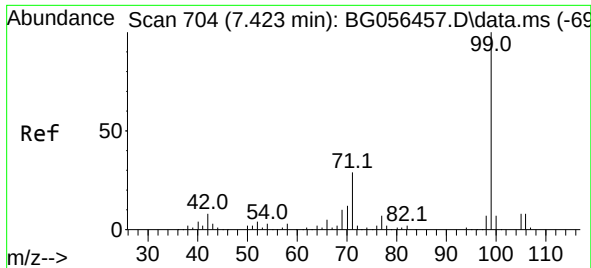
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#5
2-Fluorophenol
Concen: 43.984 ng
RT: 5.738 min Scan# 417
Delta R.T. 0.011 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Tgt Ion:112 Resp: 117948
Ion Ratio Lower Upper
112 100
64 41.0 31.9 47.9
63 21.1 17.4 26.0





#7
Phenol-d6
Concen: 39.547 ng
RT: 7.372 min Scan# 69
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :

BNA_G

ClientSampleId :

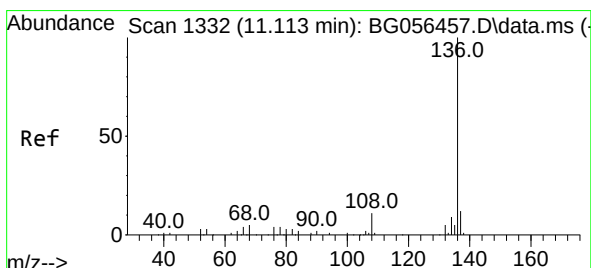
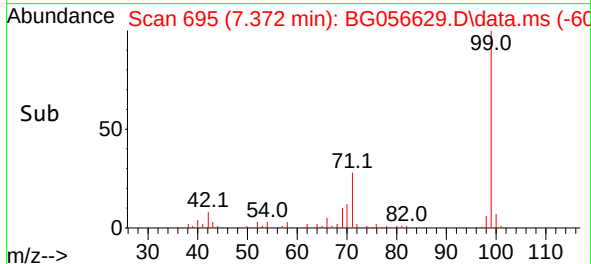
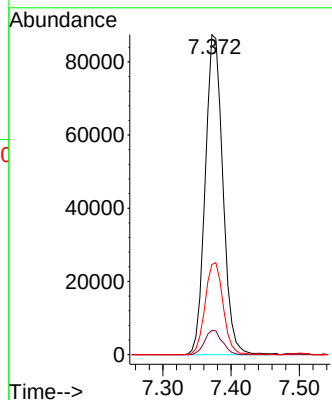
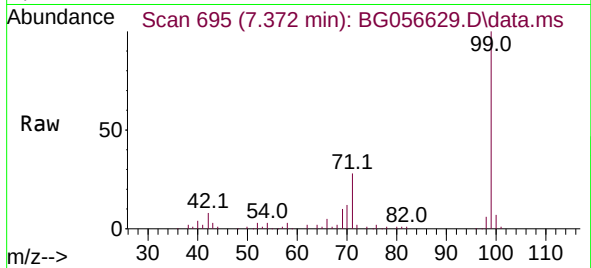
PL-01-021023

Tgt Ion: 99 Resp: 15713
Ion Ratio Lower Upper
99 100
42 7.6 6.6 10.0
71 28.2 23.4 35.0

Manual Integrations

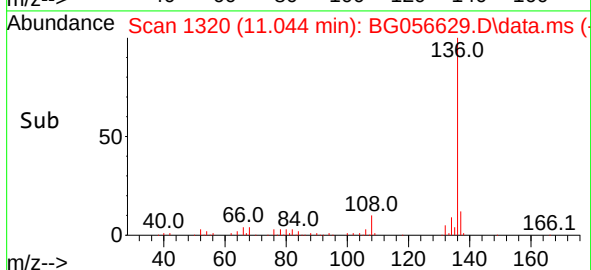
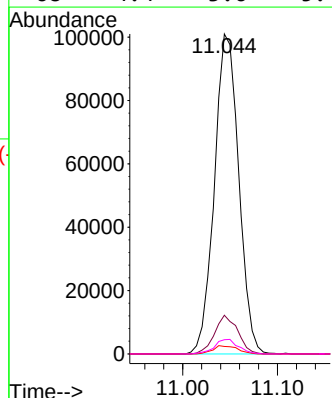
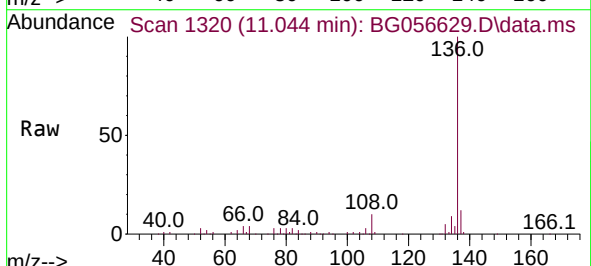
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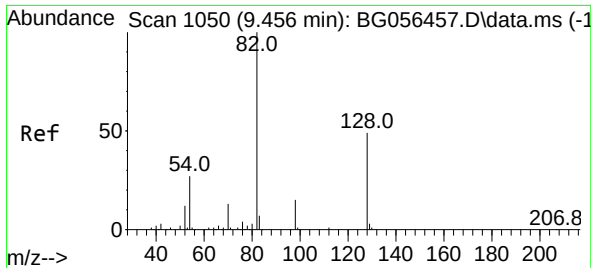
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.044 min Scan# 1320
Delta R.T. -0.001 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Tgt Ion:136 Resp: 180246
Ion Ratio Lower Upper
136 100
137 12.1 9.4 14.0
54 2.3 2.2 3.4
68 4.4 3.6 5.4





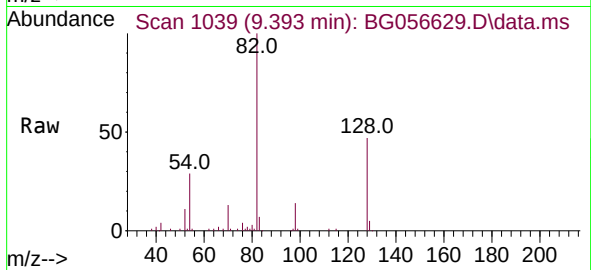
#23
Nitrobenzene-d5
Concen: 25.855 ng
RT: 9.393 min Scan# 1050
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :

BNA_G

ClientSampleId :

PL-01-021023

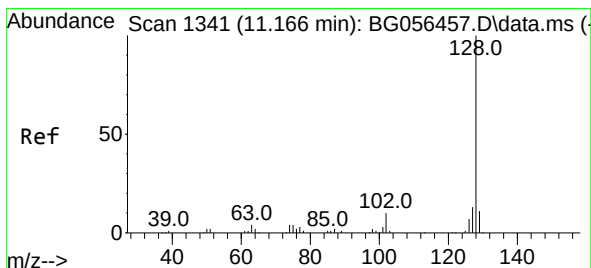
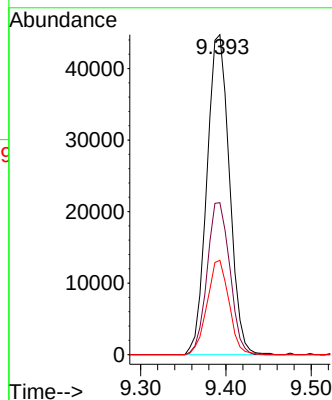
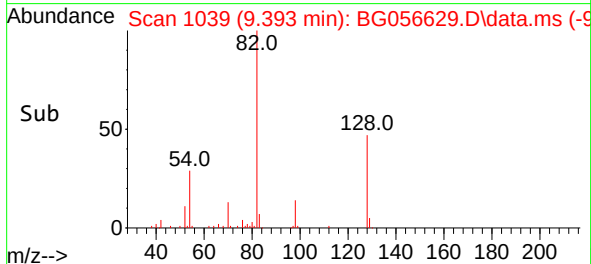


Tgt Ion: 82 Resp: 82070
Ion Ratio Lower Upper
82 100
128 47.5 39.4 59.2
54 29.5 21.4 32.2

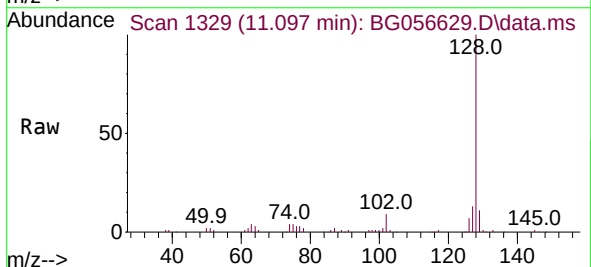
Manual Integrations

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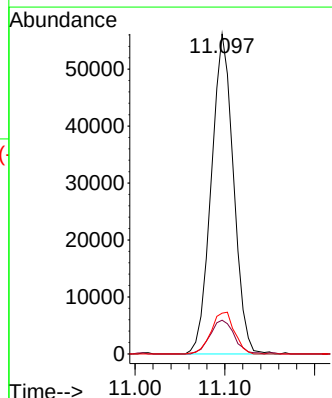
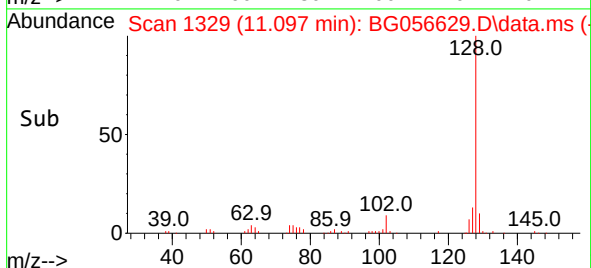
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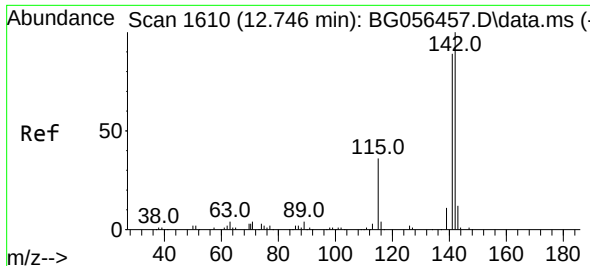


#31
Naphthalene
Concen: 10.152 ng
RT: 11.097 min Scan# 1329
Delta R.T. -0.001 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31



Tgt Ion:128 Resp: 96581
Ion Ratio Lower Upper
128 100
129 10.5 8.7 13.1
127 12.7 10.4 15.6





#37
2-Methylnaphthalene
Concen: 13.025 ng
RT: 12.683 min Scan# 1599
Delta R.T. -0.001 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :

BNA_G

ClientSampleId :

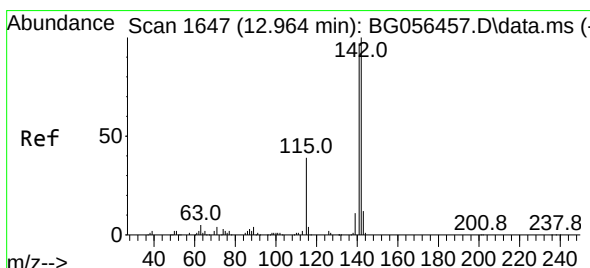
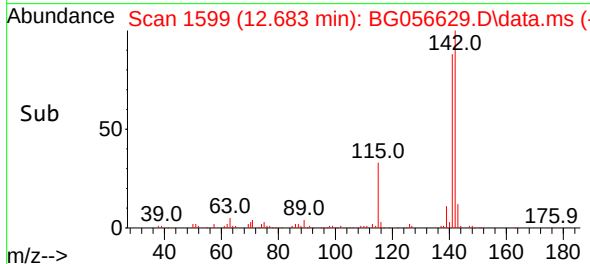
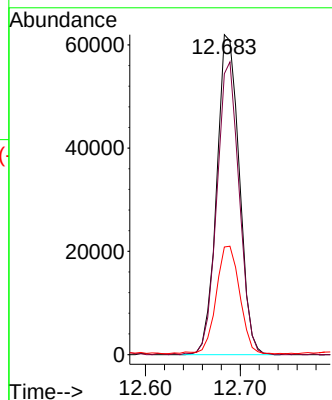
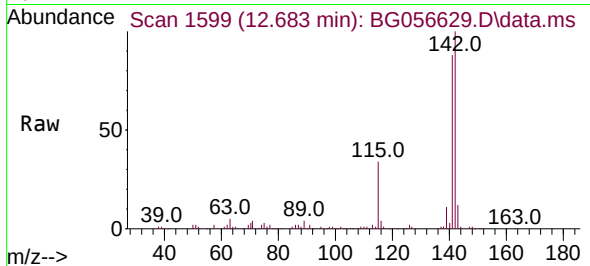
PL-01-021023

Tgt Ion:142 Resp: 102154
Ion Ratio Lower Upper
142 100
141 87.8 71.4 107.0
115 33.6 28.4 42.6

Manual Integrations

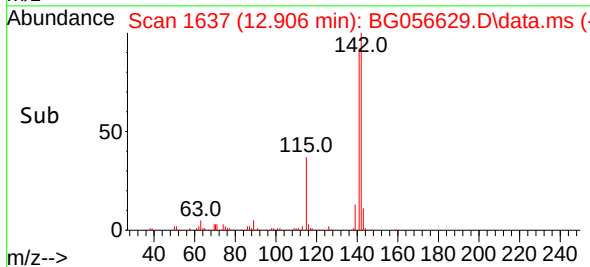
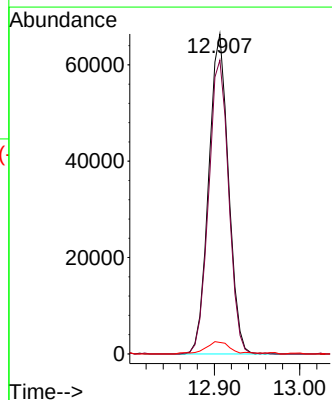
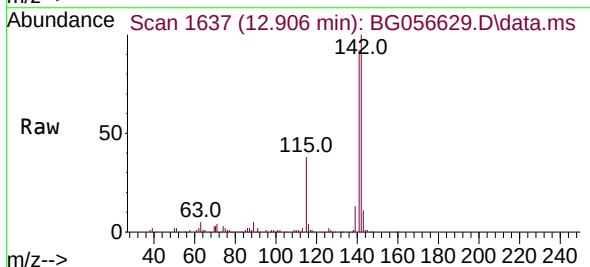
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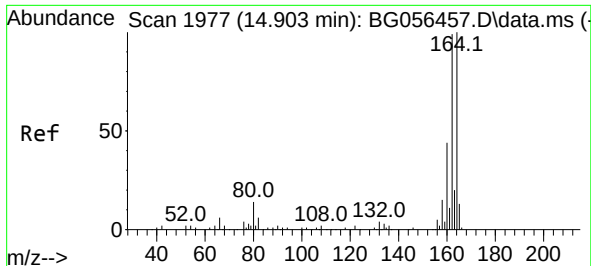
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#38
1-Methylnaphthalene
Concen: 14.579 ng
RT: 12.906 min Scan# 1637
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Tgt Ion:142 Resp: 106792
Ion Ratio Lower Upper
142 100
141 91.8 77.7 116.5
116 3.6 3.4 5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.845 min Scan# 1977
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :

BNA_G

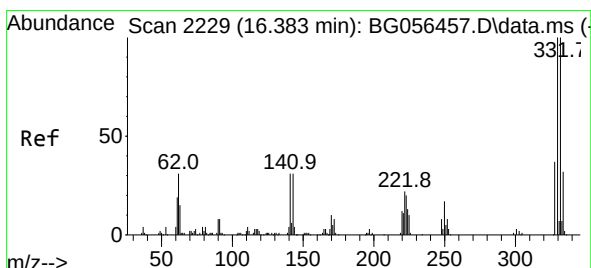
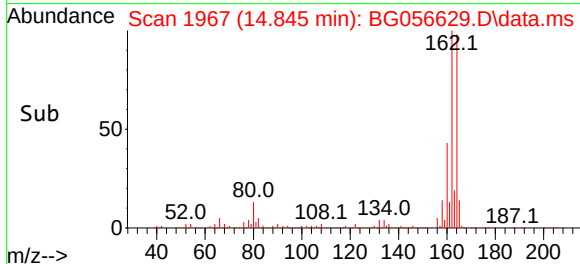
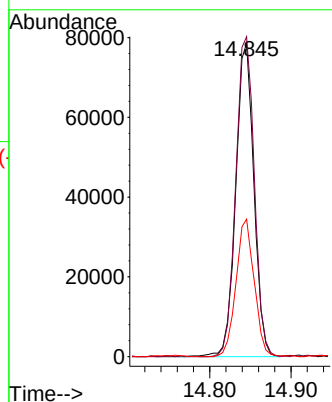
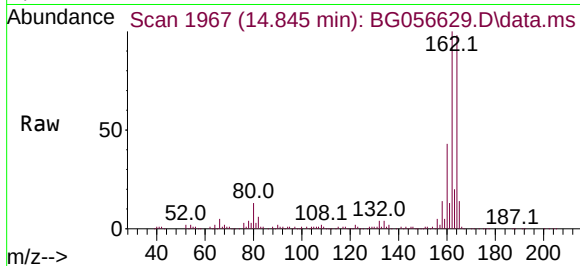
ClientSampleId :

PL-01-021023

Tgt Ion:164 Resp: 121601
Ion Ratio Lower Upper
164 100
162 102.1 79.6 119.4
160 43.9 34.9 52.3

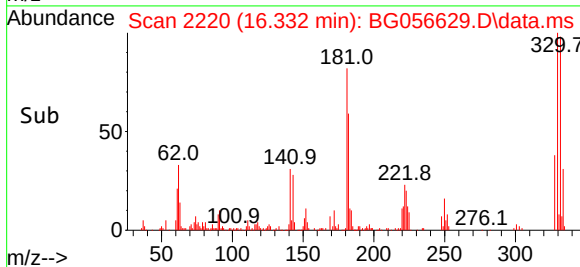
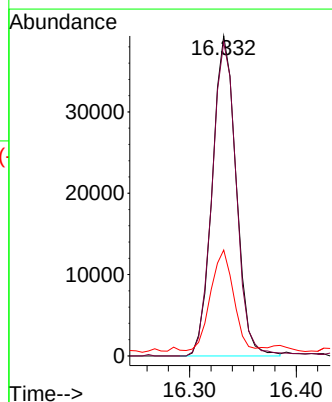
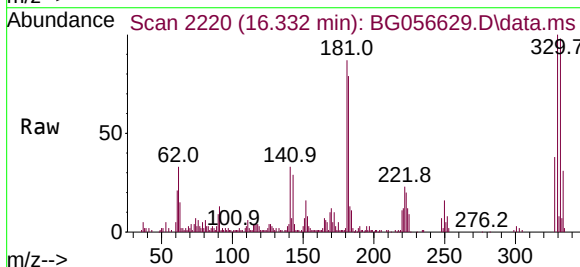
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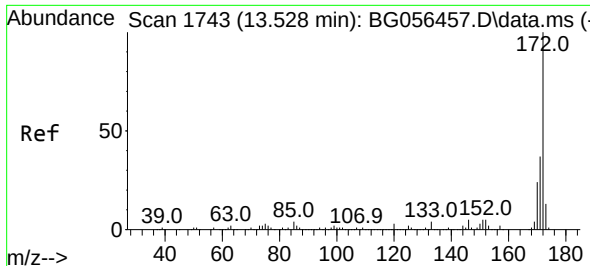
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#42
2,4,6-Tribromophenol
Concen: 37.801 ng
RT: 16.332 min Scan# 2220
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Tgt Ion:330 Resp: 61110
Ion Ratio Lower Upper
330 100
332 100.6 79.0 118.6
141 30.2 24.2 36.4





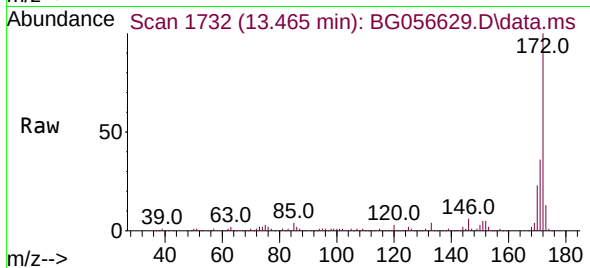
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2-Fluorobiphenyl
Concen: 30.624 ng
RT: 13.465 min Scan# 1743
Delta R.T. -0.001 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :

BNA_G

ClientSampleId :

PL-01-021023

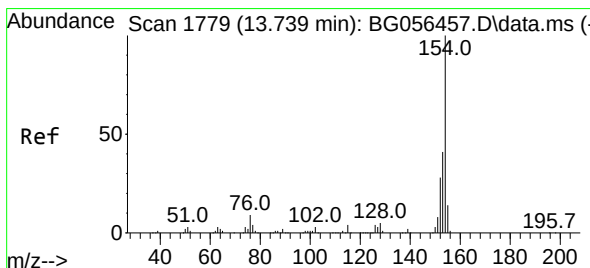
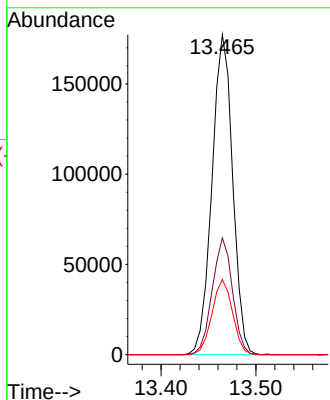
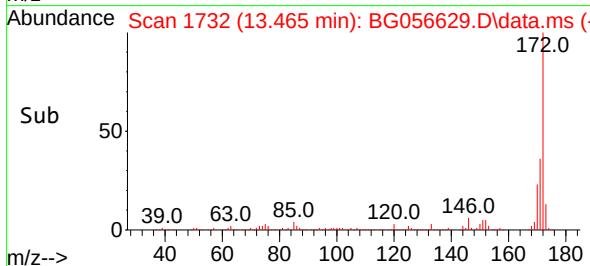


Tgt Ion:172 Resp: 268600
Ion Ratio Lower Upper
172 100
171 36.5 29.5 44.3
170 23.5 19.2 28.8

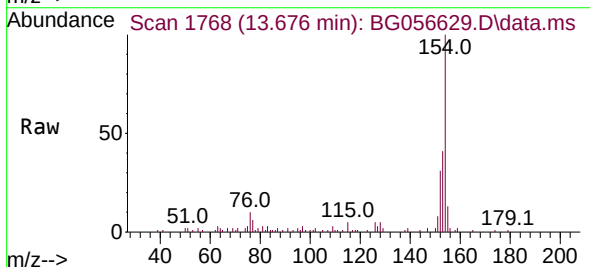
Manual Integrations

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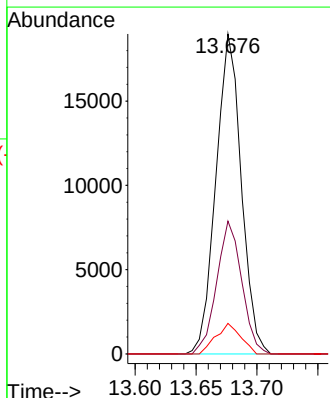
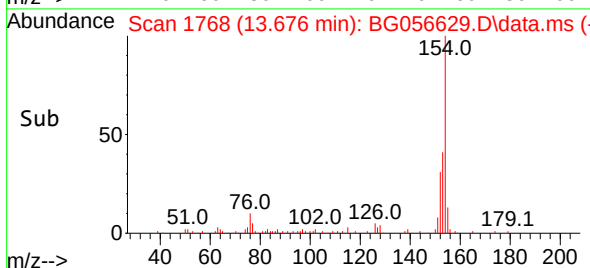
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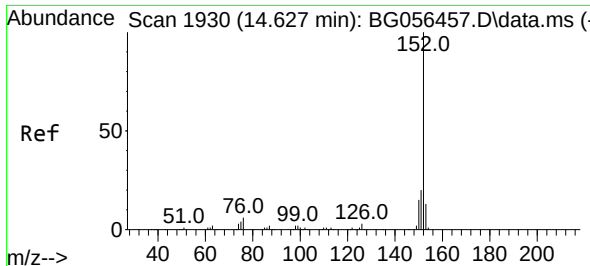


#46
1,1'-Biphenyl
Concen: 3.112 ng
RT: 13.676 min Scan# 1768
Delta R.T. -0.001 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31



Tgt Ion:154 Resp: 27449
Ion Ratio Lower Upper
154 100
153 41.5 21.5 61.5
76 9.5 0.0 28.8





#49
Acenaphthylene
Concen: 6.303 ng
RT: 14.575 min Scan# 1930
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :

BNA_G

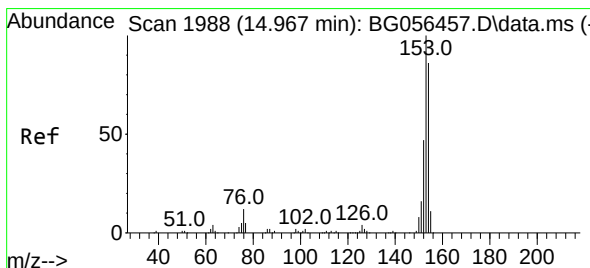
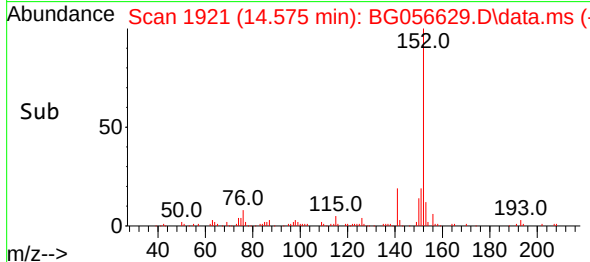
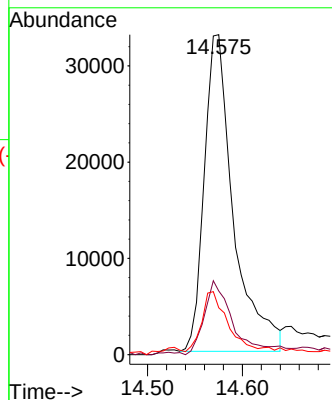
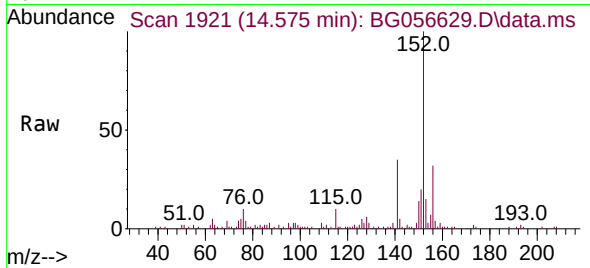
ClientSampleId :

PL-01-021023

Tgt Ion:152 Resp: 70694
Ion Ratio Lower Upper
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151 19.9 15.9 23.9
153 14.6 10.5 15.7

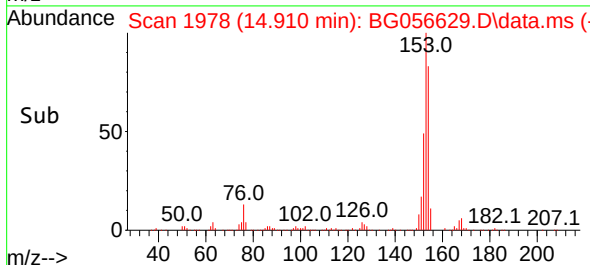
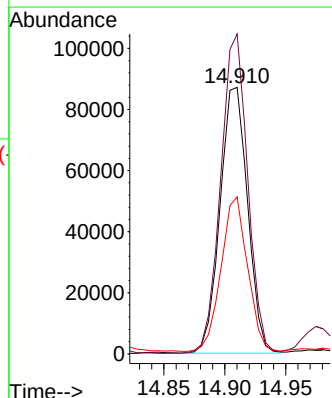
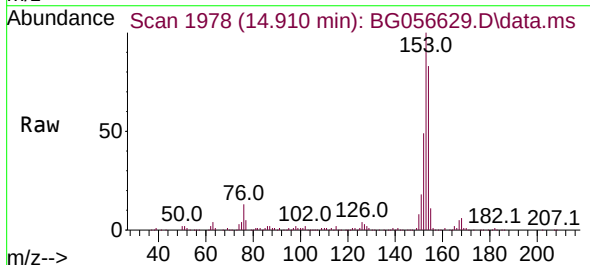
Manual Integrations
APPROVED

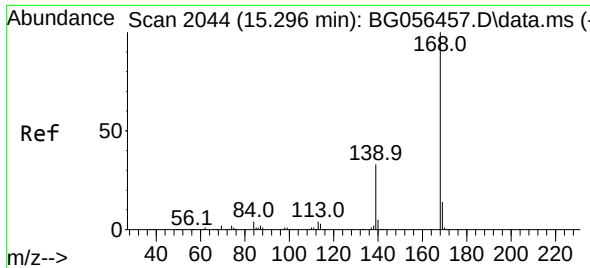
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#52
Acenaphthene
Concen: 20.529 ng
RT: 14.910 min Scan# 1978
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

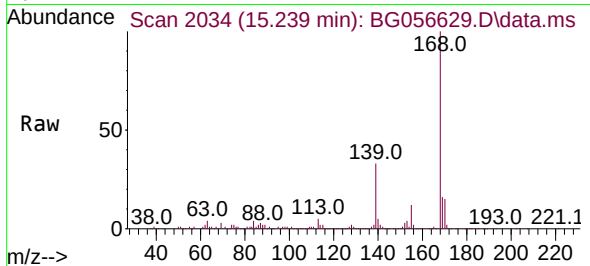
Tgt Ion:154 Resp: 136549
Ion Ratio Lower Upper
154 100
153 120.1 93.4 140.0
152 58.9 43.4 65.2





#55
Dibenzofuran
Concen: 14.744 ng
RT: 15.239 min Scan# 2044
Delta R.T. -0.001 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

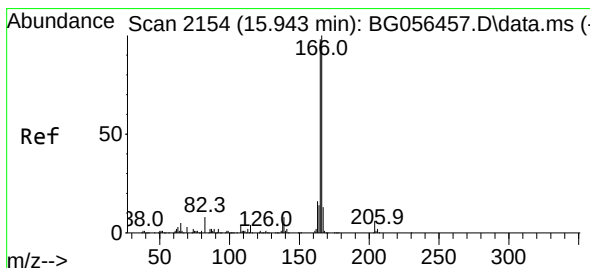
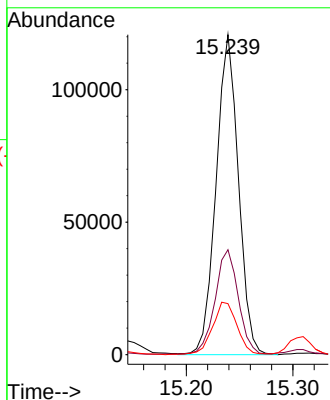
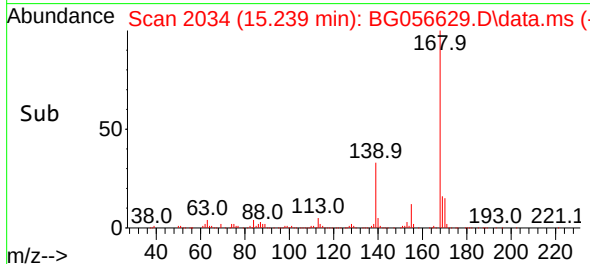
Instrument :
BNA_G
ClientSampleId :
PL-01-021023



Tgt Ion:168 Resp: 175872
Ion Ratio Lower Upper
168 100
139 32.8 26.2 39.2
169 15.9 11.0 16.6

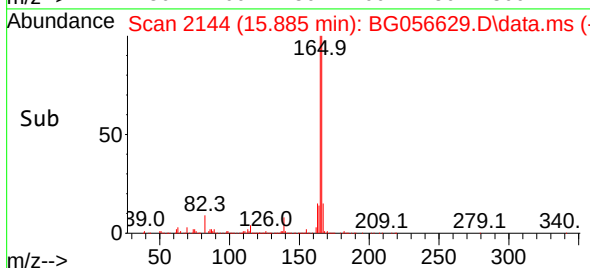
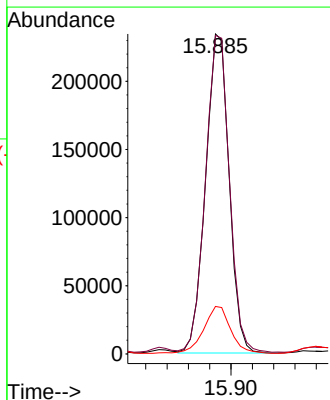
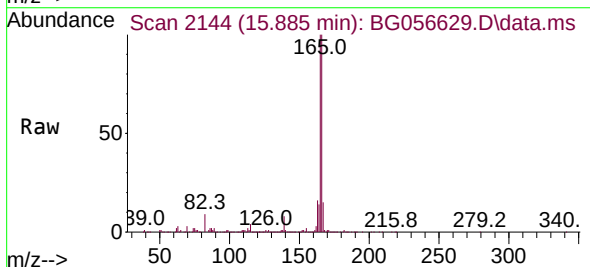
Manual Integrations
APPROVED

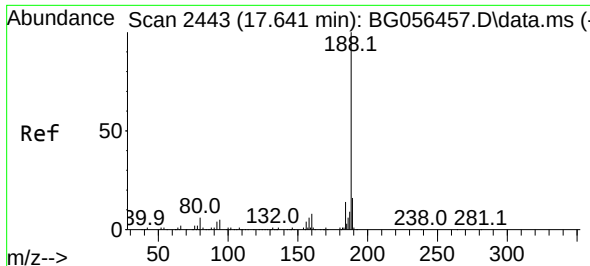
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#58
Fluorene
Concen: 37.872 ng
RT: 15.885 min Scan# 2144
Delta R.T. -0.001 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

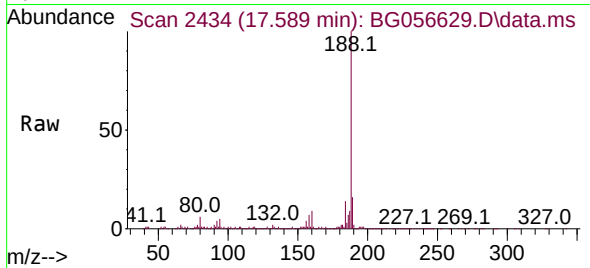
Tgt Ion:166 Resp: 359473
Ion Ratio Lower Upper
166 100
165 99.5 78.8 118.2
167 14.8 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.589 min Scan# 2443
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

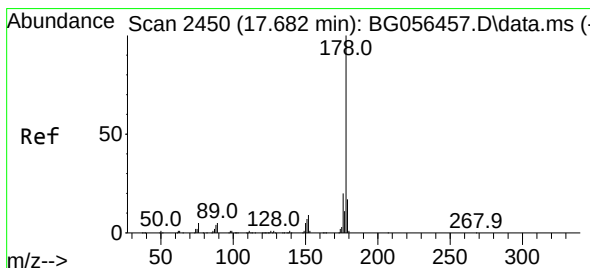
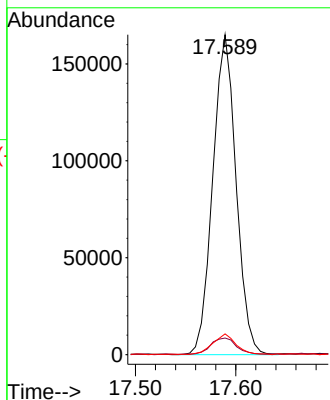
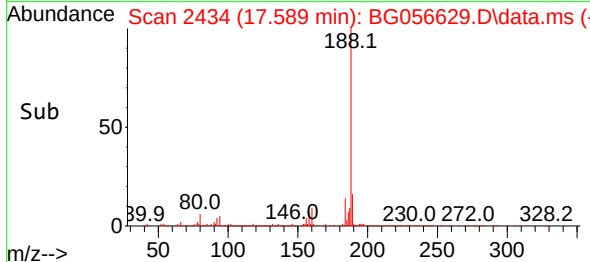
Instrument :
BNA_G
ClientSampleId :
PL-01-021023



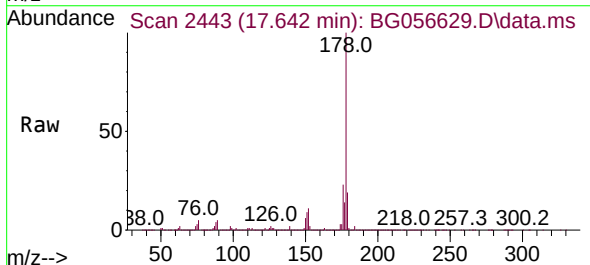
Tgt Ion:188 Resp: 266888
Ion Ratio Lower Upper
188 100
94 5.2 4.1 6.1
80 6.5 5.0 7.4

Manual Integrations
APPROVED

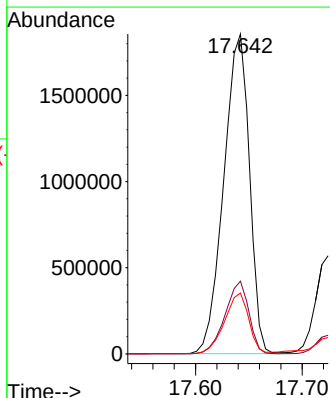
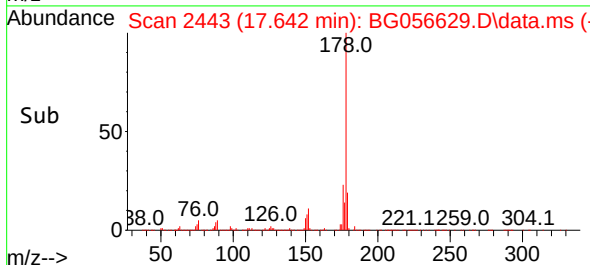
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

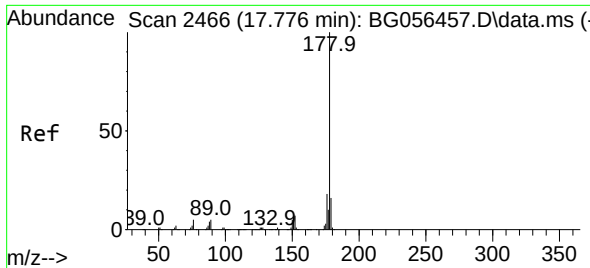


#71
Phenanthrene
Concen: 222.037 ng
RT: 17.642 min Scan# 2443
Delta R.T. 0.016 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31



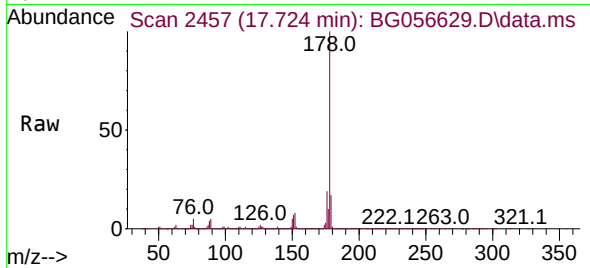
Tgt Ion:178 Resp: 3101519
Ion Ratio Lower Upper
178 100
176 22.7 15.6 23.4
179 19.0 13.3 19.9





#72
 Anthracene
 Concen: 57.628 ng
 RT: 17.724 min Scan# 2466
 Delta R.T. 0.011 min
 Lab File: BG056629.D
 Acq: 13 Feb 2023 21:31

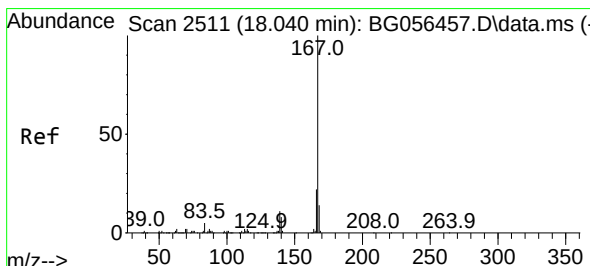
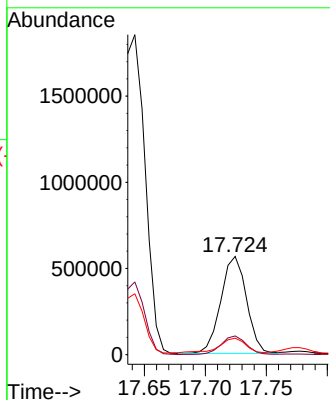
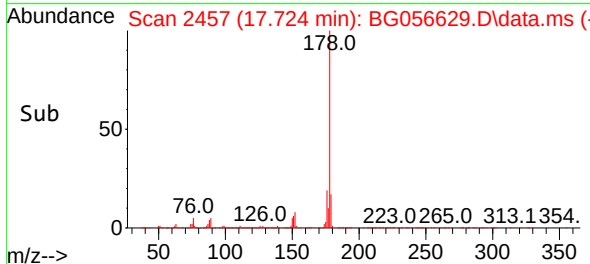
Instrument :
 BNA_G
 ClientSampleId :
 PL-01-021023



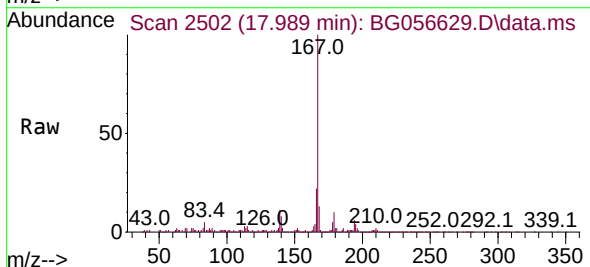
Tgt Ion:178 Resp: 826322
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.5 21.7
 179 16.7 12.5 18.7

Manual Integrations
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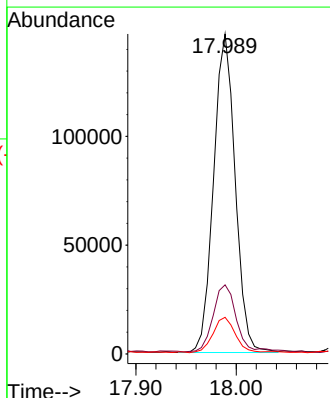
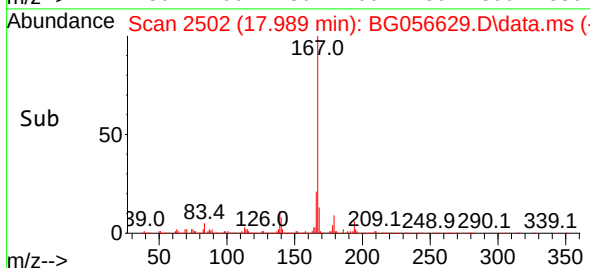
Reviewed By :Christian Giraldo 02/14/2023
 Supervised By :Jagrut Upadhyay 02/14/2023

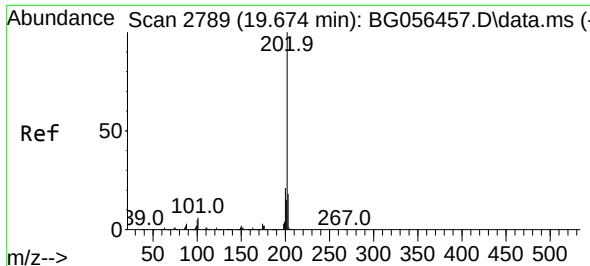


#73
 Carbazole
 Concen: 17.956 ng
 RT: 17.989 min Scan# 2502
 Delta R.T. 0.005 min
 Lab File: BG056629.D
 Acq: 13 Feb 2023 21:31



Tgt Ion:167 Resp: 219285
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.8 26.6
 139 11.4 8.9 13.3





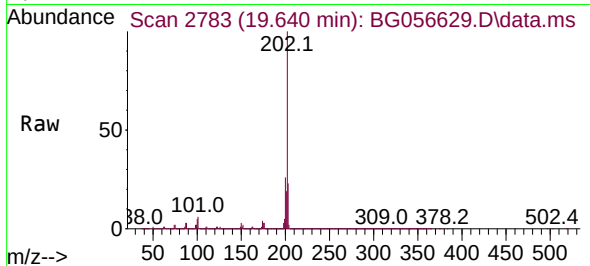
#75
Fluoranthene
Concen: 227.531 ng
RT: 19.640 min Scan# 21
Delta R.T. 0.016 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :

BNA_G

ClientSampleId :

PL-01-021023

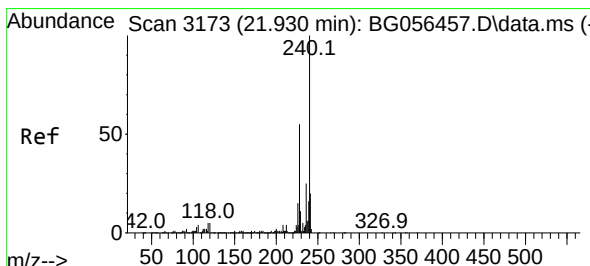
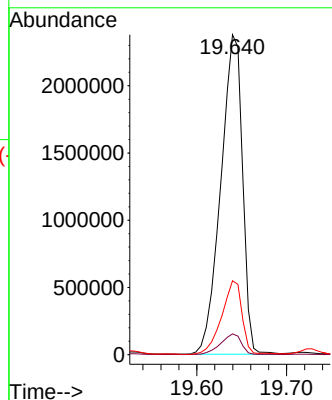
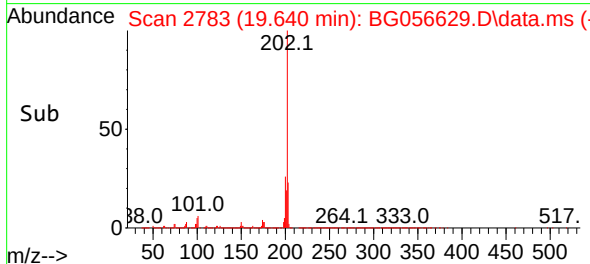


Tgt Ion:202 Resp: 4011332
Ion Ratio Lower Upper
202 100
101 6.5 0.0 25.6
203 23.1 0.0 38.1

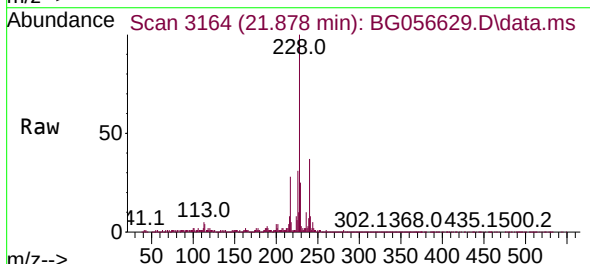
Manual Integrations

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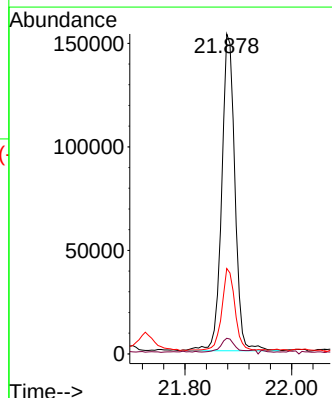
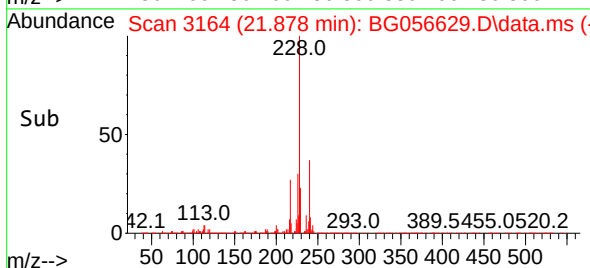
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

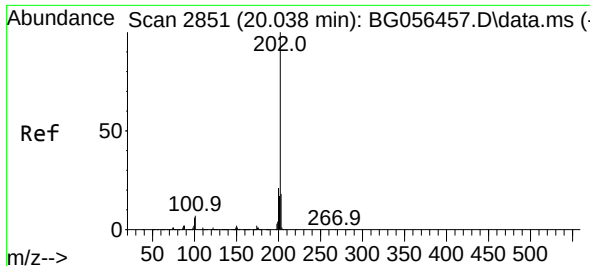


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.878 min Scan# 3164
Delta R.T. 0.016 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31



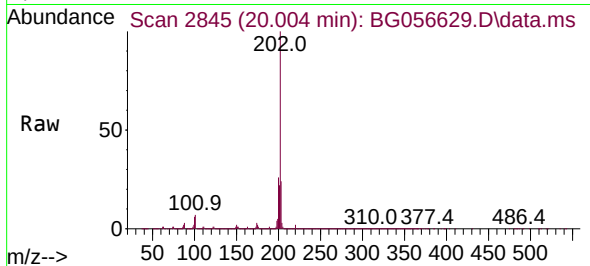
Tgt Ion:240 Resp: 263247
Ion Ratio Lower Upper
240 100
120 4.9 3.8 5.8
236 26.7 20.2 30.2





#78
Pyrene
Concen: 205.905 ng
RT: 20.004 min Scan# 2845
Delta R.T. 0.022 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

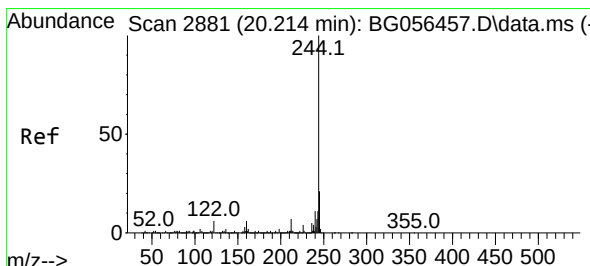
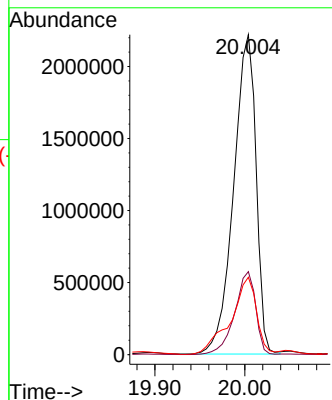
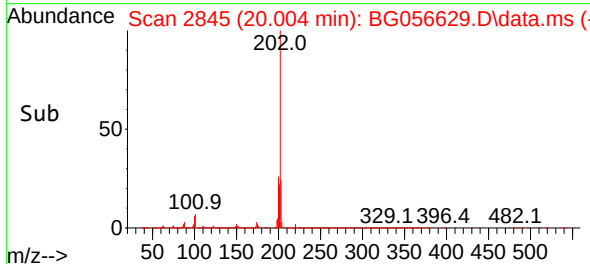
Instrument :
BNA_G
ClientSampleId :
PL-01-021023



Tgt Ion:202 Resp: 3855086
Ion Ratio Lower Upper
202 100
200 26.0 16.7 25.1
203 24.2 14.4 21.6

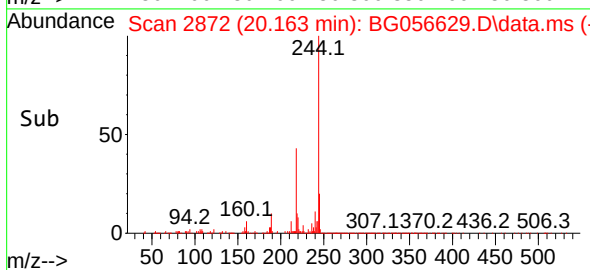
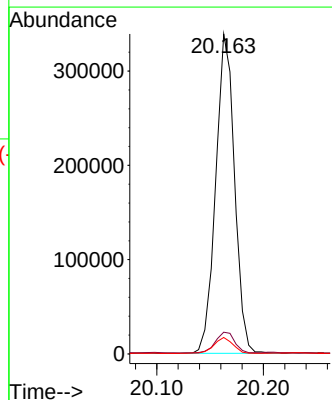
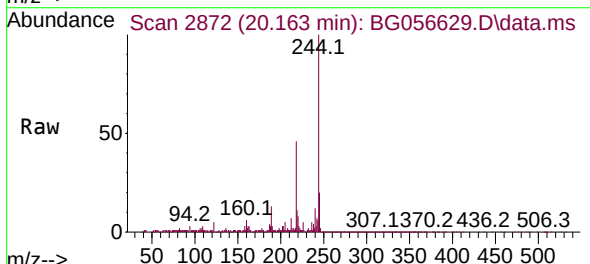
Manual Integrations
APPROVED

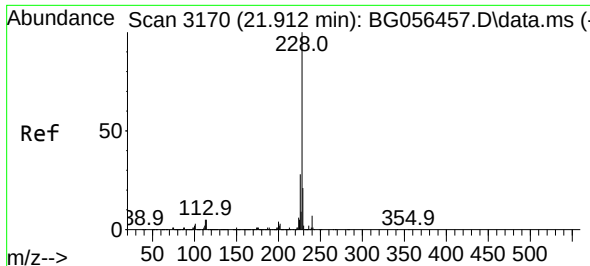
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#79
Terphenyl-d14
Concen: 27.807 ng
RT: 20.163 min Scan# 2872
Delta R.T. 0.005 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Tgt Ion:244 Resp: 416771
Ion Ratio Lower Upper
244 100
212 6.8 5.5 8.3
122 5.1 4.4 6.6





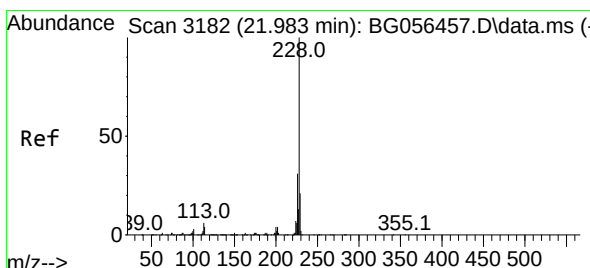
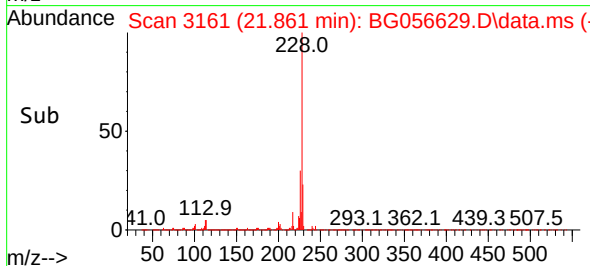
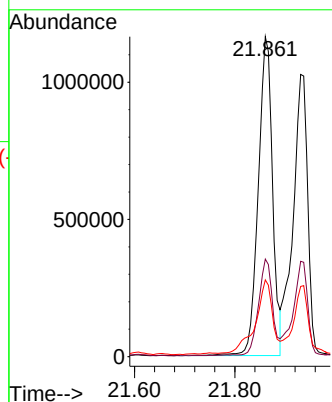
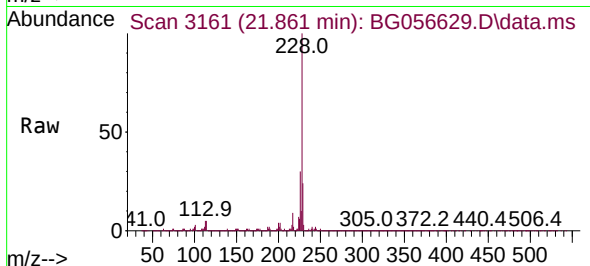
#81
Benzo(a)anthracene
Concen: 125.031 ng
RT: 21.861 min Scan# 3170
Delta R.T. 0.022 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :
BNA_G
ClientSampleId :
PL-01-021023

Tgt Ion:228 Resp: 2301055
Ion Ratio Lower Upper
228 100
226 30.5 22.4 33.6
229 24.0 16.5 24.7

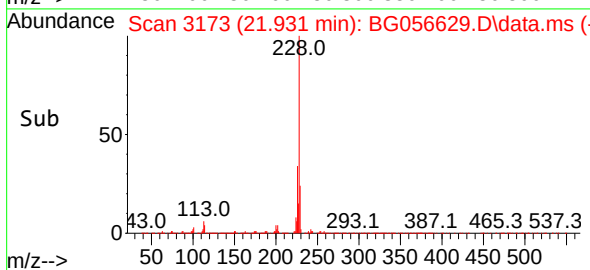
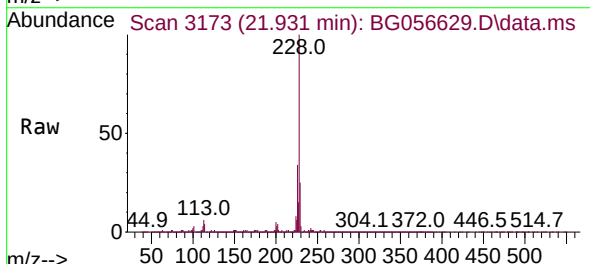
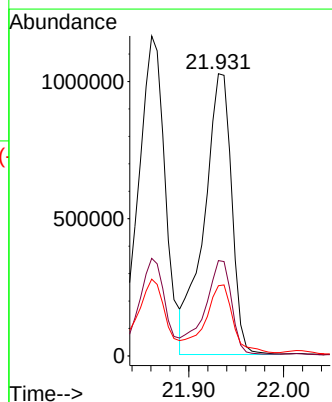
Manual Integrations
APPROVED

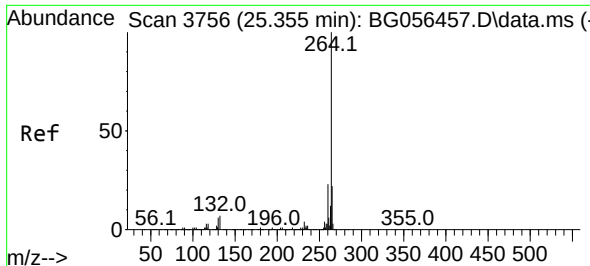
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#83
Chrysene
Concen: 120.237 ng m
RT: 21.931 min Scan# 3173
Delta R.T. 0.022 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Tgt Ion:228 Resp: 2078925
Ion Ratio Lower Upper
228 100
226 33.8 25.0 37.4
229 24.9 16.4 24.6#





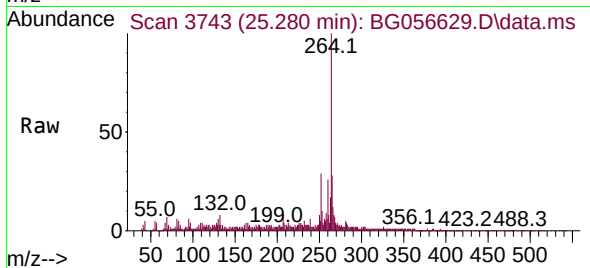
#86
Perylene-d12
Concen: 20.000 ng
RT: 25.280 min Scan# 31
Delta R.T. 0.046 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

Instrument :

BNA_G

ClientSampleId :

PL-01-021023

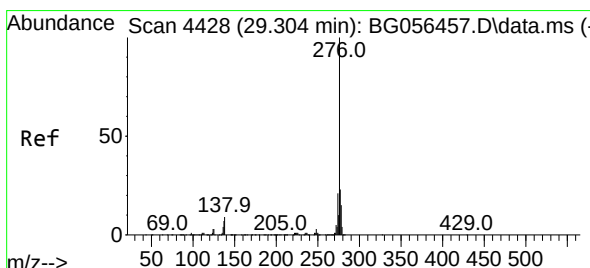
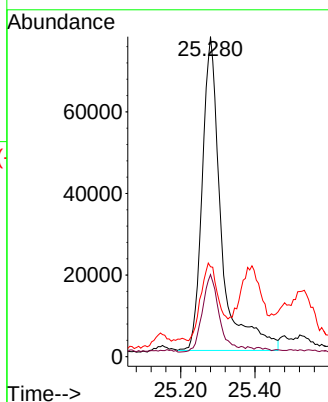
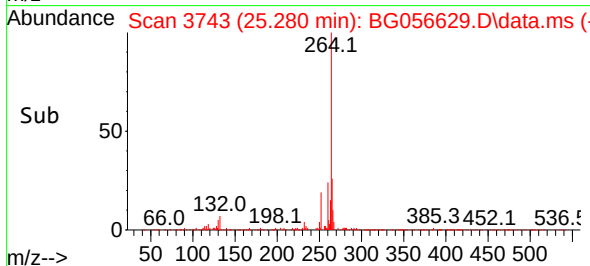


Tgt Ion:264 Resp: 273613
Ion Ratio Lower Upper
264 100
260 25.6 18.2 27.4
265 28.1 18.1 27.1

Manual Integrations

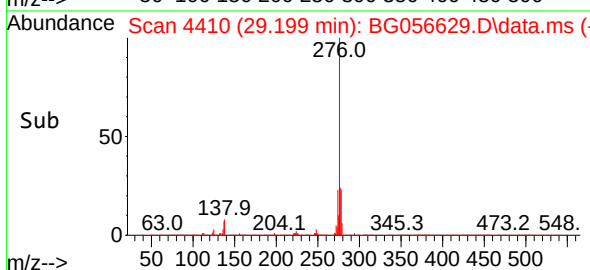
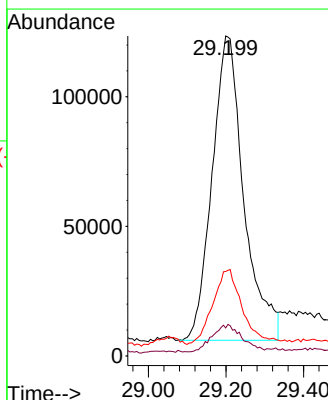
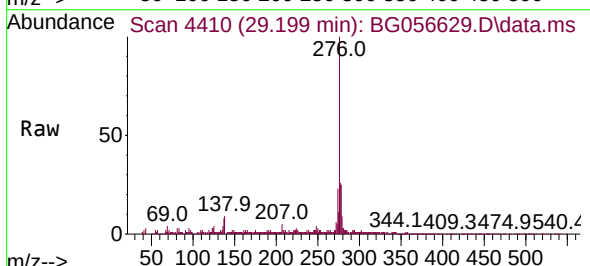
APPROVED

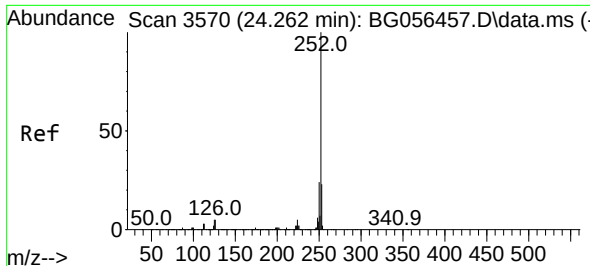
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 33.318 ng
RT: 29.199 min Scan# 4410
Delta R.T. 0.069 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

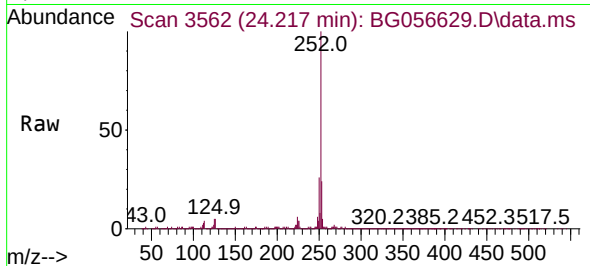
Tgt Ion:276 Resp: 667320
Ion Ratio Lower Upper
276 100
138 8.4 9.4 14.2#
277 23.2 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 136.439 ng
RT: 24.217 min Scan# 3562
Delta R.T. 0.058 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

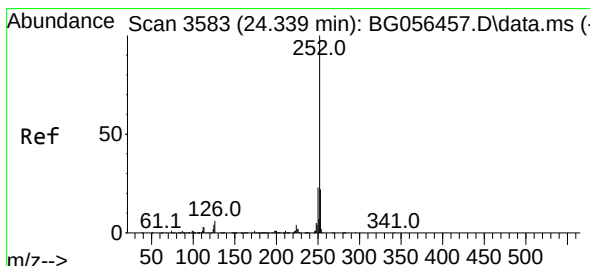
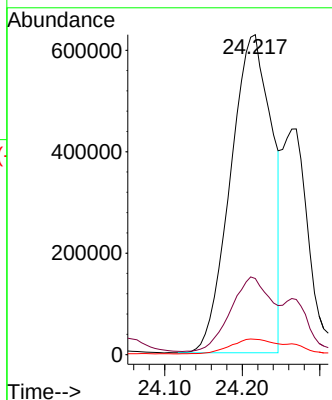
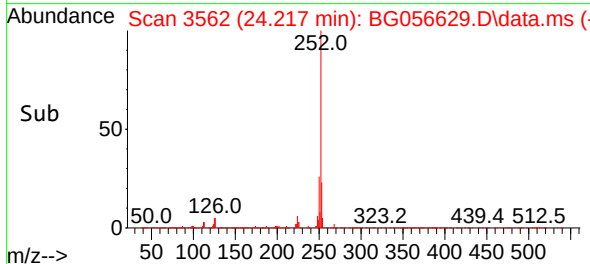
Instrument :
BNA_G
ClientSampleId :
PL-01-021023



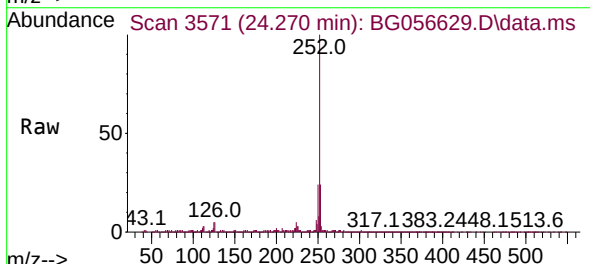
Tgt Ion:252 Resp: 231712
Ion Ratio Lower Upper
252 100
253 23.8 18.1 27.1
125 4.8 3.9 5.9

Manual Integrations
APPROVED

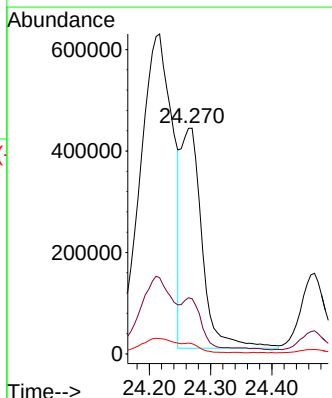
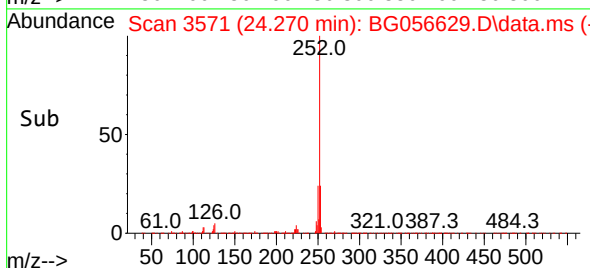
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

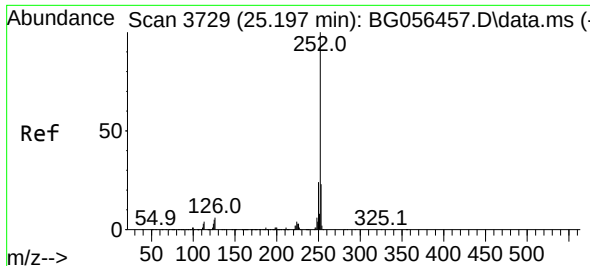


#89
Benzo(k)fluoranthene
Concen: 61.063 ng m
RT: 24.270 min Scan# 3571
Delta R.T. 0.040 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31



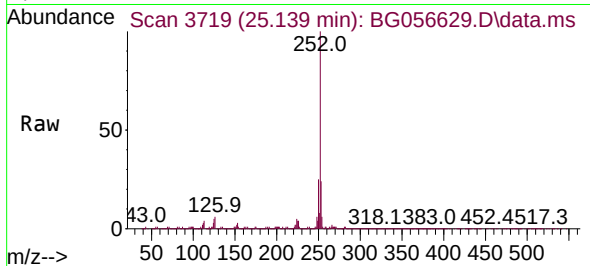
Tgt Ion:252 Resp: 1047019
Ion Ratio Lower Upper
252 100
253 24.4 17.5 26.3
125 4.5 3.4 5.0





#90
Benzo(a)pyrene
Concen: 119.996 ng
RT: 25.139 min Scan# 31
Delta R.T. 0.058 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

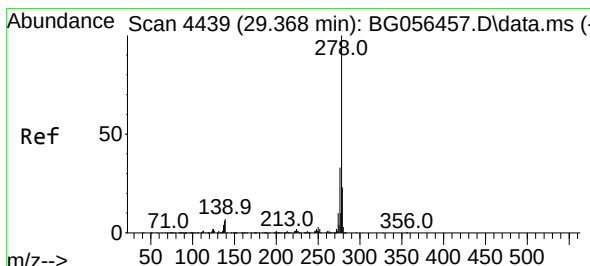
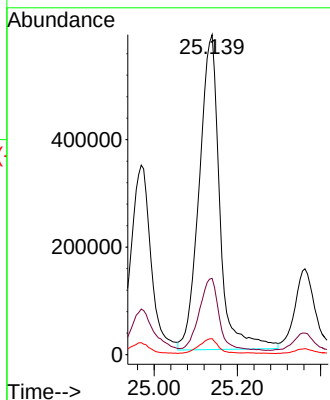
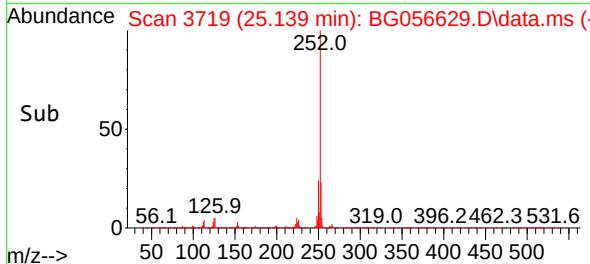
Instrument :
BNA_G
ClientSampleId :
PL-01-021023



Tgt Ion:252 Resp: 2007438
Ion Ratio Lower Upper
252 100
253 23.8 18.4 27.6
125 5.0 4.1 6.1

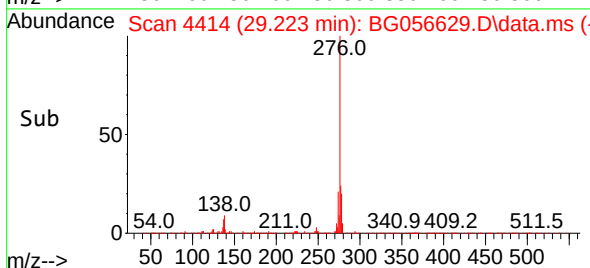
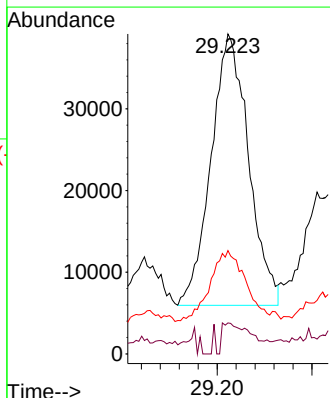
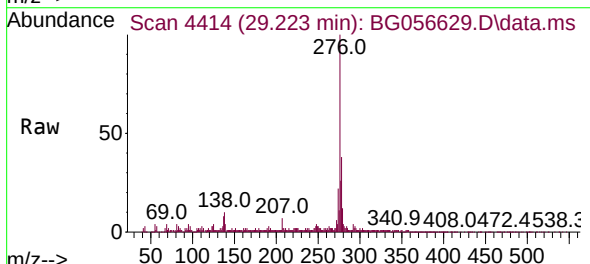
Manual Integrations
APPROVED

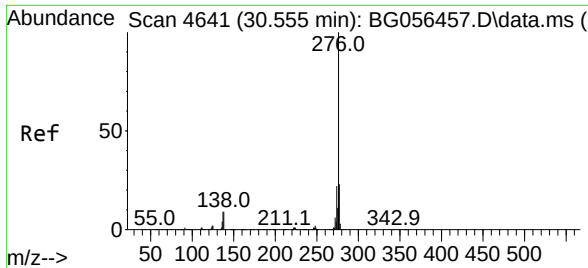
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#91
Dibenzo(a,h)anthracene
Concen: 10.869 ng
RT: 29.223 min Scan# 4414
Delta R.T. 0.040 min
Lab File: BG056629.D
Acq: 13 Feb 2023 21:31

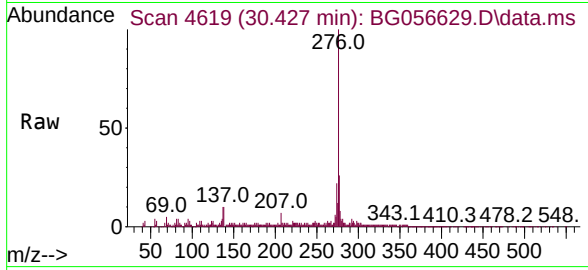
Tgt Ion:278 Resp: 182732
Ion Ratio Lower Upper
278 100
139 9.7 5.5 8.3#
279 32.3 18.8 28.2#





#92
 Benzo(g,h,i)perylene
 Concen: 35.945 ng
 RT: 30.427 min Scan# 4619
 Delta R.T. 0.075 min
 Lab File: BG056629.D
 Acq: 13 Feb 2023 21:31

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-021023



Tgt Ion:	276	Resp:	583096
Ion Ratio	Lower	Upper	
276	100		
277	25.8	18.5	27.7
138	9.8	7.4	11.0

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 02/14/2023
 Supervised By :Jagrut Upadhyay 02/14/2023

