

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042322\
 Data File : BG053299.D
 Acq On : 23 Apr 2022 18:55
 Operator : CG/JU
 Sample : N2476-01 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PAT-01-041922

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/25/2022
 Supervised By : Jagrut Upadhyay 04/25/2022

Quant Time: Apr 24 02:50:08 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG040822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Apr 24 01:13:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.110	152	40104	20.000	ng	0.00
21) Naphthalene-d8	10.924	136	158710	20.000	ng	0.00
39) Acenaphthene-d10	14.737	164	106267	20.000	ng	0.00
64) Phenanthrene-d10	17.480	188	207201	20.000	ng	0.00
76) Chrysene-d12	21.774	240	189142	20.000	ng	0.00
86) Perylene-d12	25.081	264	197226	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.678	112	121292	51.844	ng	0.00
7) Phenol-d6	7.270	99	182147	50.487	ng	0.00
23) Nitrobenzene-d5	9.273	82	135045	34.549	ng	0.00
42) 2,4,6-Tribromophenol	16.223	330	76275	45.115	ng	0.00
45) 2-Fluorobiphenyl	13.356	172	262980	34.124	ng	0.00
79) Terphenyl-d14	20.082	244	324491	28.975	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.971	128	131740	15.558	ng	98
37) 2-Methylnaphthalene	12.569	142	48162	7.687	ng	95
38) 1-Methylnaphthalene	12.786	142	37385	6.113	ng	# 94
49) Acenaphthylene	14.461	152	112929	11.816	ng	96
52) Acenaphthene	14.795	154	82505	12.729	ng	96
55) Dibenzofuran	15.130	168	110663	10.904	ng	96
58) Fluorene	15.776	166	168146	20.513	ng	99
71) Phenanthrene	17.527	178	1132632	100.076	ng	100
72) Anthracene	17.615	178	338461	30.186	ng	99
73) Carbazole	17.879	167	88397	8.110	ng	100
75) Fluoranthene	19.536	202	1741066	120.012	ng	95
78) Pyrene	19.900	202	1607813	119.356	ng	97
81) Benzo(a)anthracene	21.757	228	911559	70.488	ng	93
83) Chrysene	21.821	228	838204	69.839	ng	94
87) Indeno(1,2,3-cd)pyrene	28.876	276	518286	35.371	ng	98
88) Benzo(b)fluoranthene	24.042	252	1184608	95.197	ng	95
89) Benzo(k)fluoranthene	24.100	252	435784m	35.632	ng	
90) Benzo(a)pyrene	24.940	252	944105	89.058	ng	97
91) Dibenzo(a,h)anthracene	28.906	278	120661	10.005	ng	# 84
92) Benzo(g,h,i)perylene	30.063	276	448814	37.757	ng	99

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

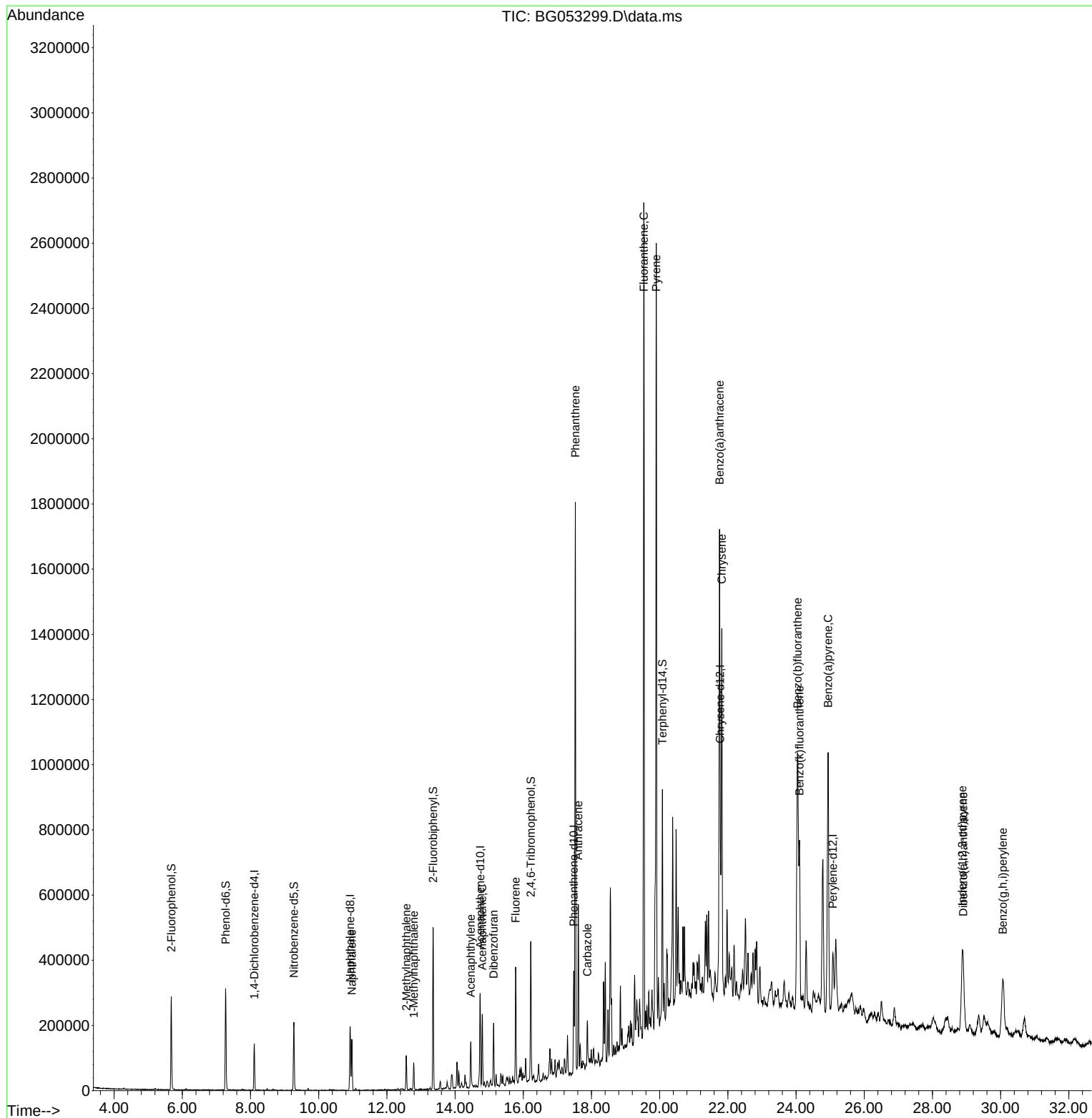
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042322\
Data File : BG053299.D
Acq On : 23 Apr 2022 18:55
Operator : CG/JU
Sample : N2476-01 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

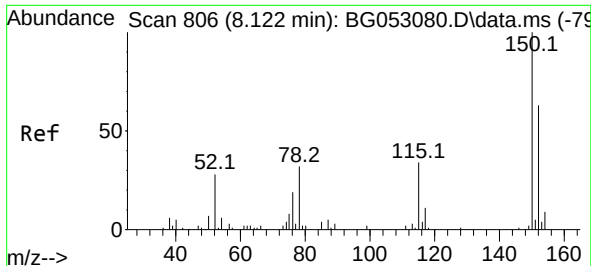
Instrument :
BNA_G
ClientSampleId :
PAT-01-041922

Quant Time: Apr 24 02:50:08 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG040822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Apr 24 01:13:30 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

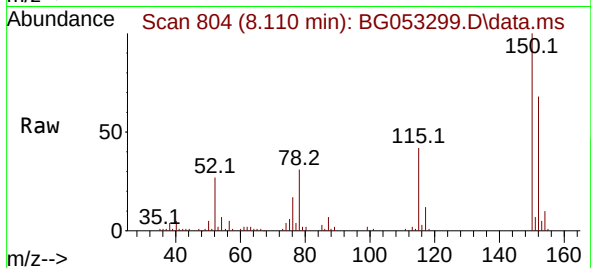
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.110 min Scan# 806
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

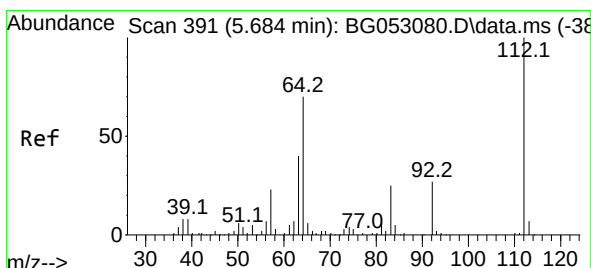
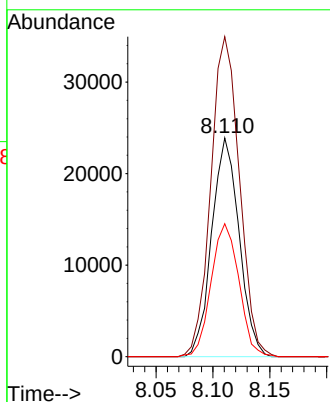
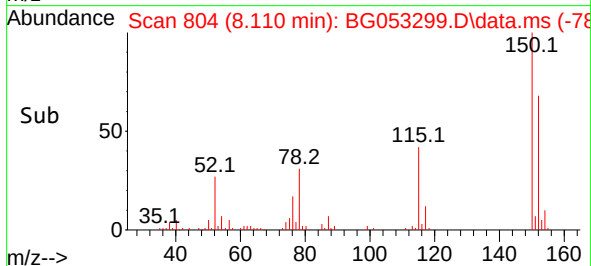
Instrument :
BNA_G
ClientSampleId :
PAT-01-041922



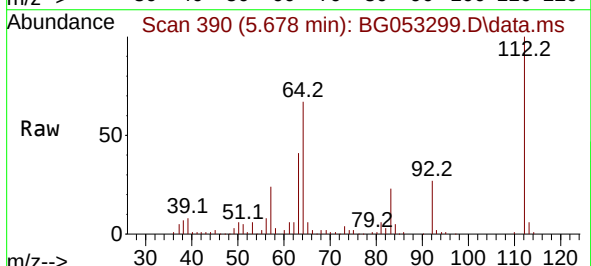
Tgt Ion:152 Resp: 40104
Ion Ratio Lower Upper
152 100
150 146.3 114.6 172.0
115 60.8 45.9 68.9

Manual Integrations
APPROVED

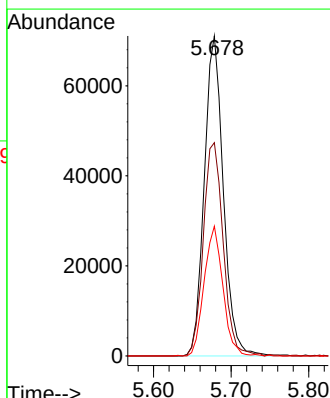
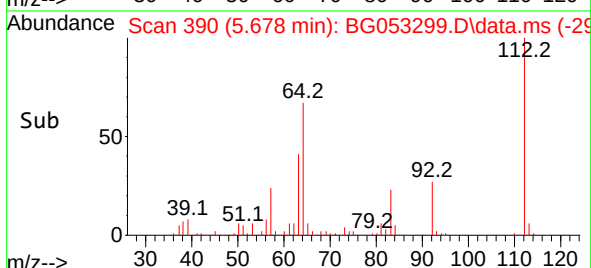
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022

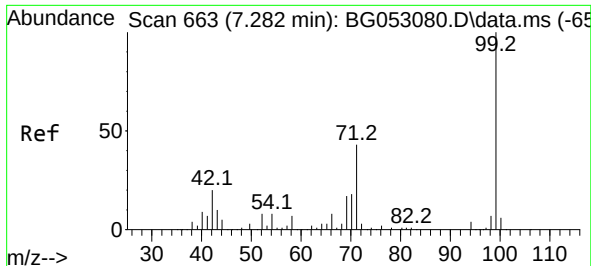


#5
2-Fluorophenol
Concen: 51.844 ng
RT: 5.678 min Scan# 390
Delta R.T. 0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55



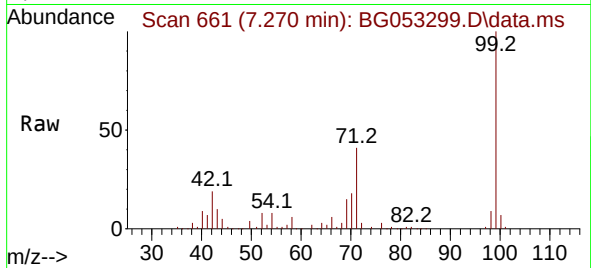
Tgt Ion:112 Resp: 121292
Ion Ratio Lower Upper
112 100
64 66.6 48.0 72.0
63 40.5 26.5 39.7#





#7
Phenol-d6
Concen: 50.487 ng
RT: 7.270 min Scan# 60
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

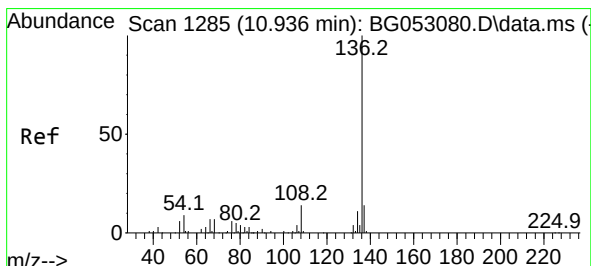
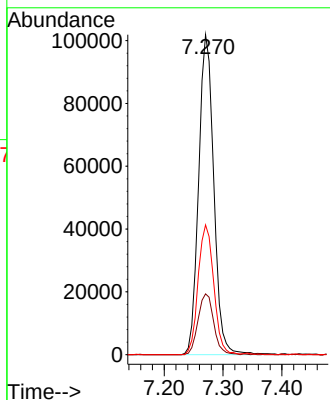
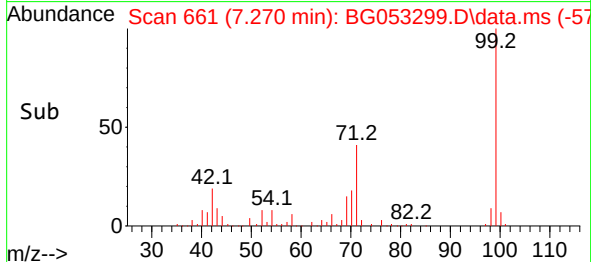
Instrument :
BNA_G
ClientSampleId :
PAT-01-041922



Tgt Ion: 99 Resp: 18214
Ion Ratio Lower Upper
99 100
42 19.0 14.7 22.1
71 40.6 29.2 43.8

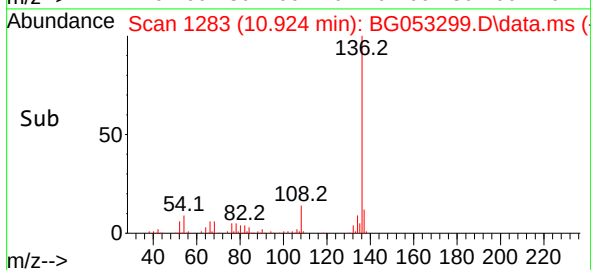
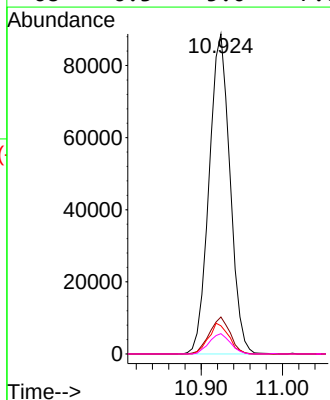
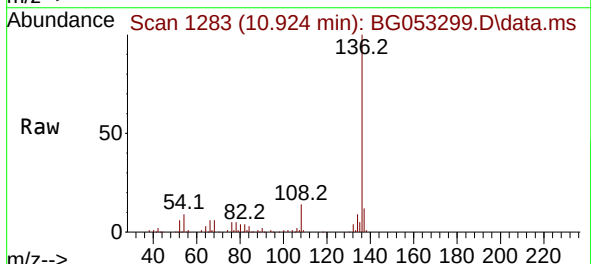
Manual Integrations
APPROVED

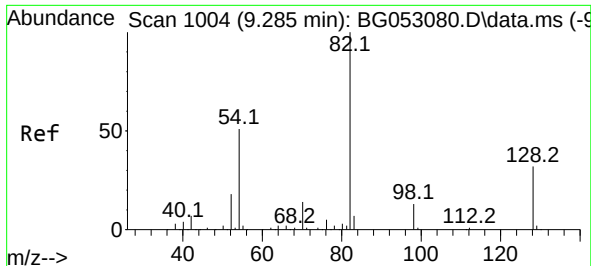
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.924 min Scan# 1283
Delta R.T. 0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

Tgt Ion:136 Resp: 158710
Ion Ratio Lower Upper
136 100
137 11.6 9.4 14.2
54 8.8 6.4 9.6
68 6.3 5.0 7.6





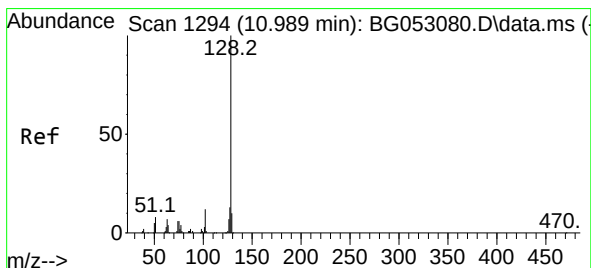
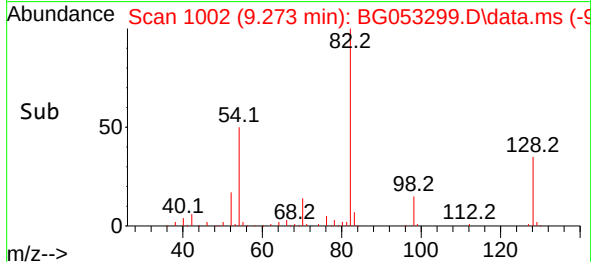
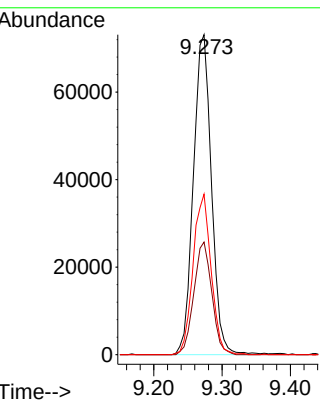
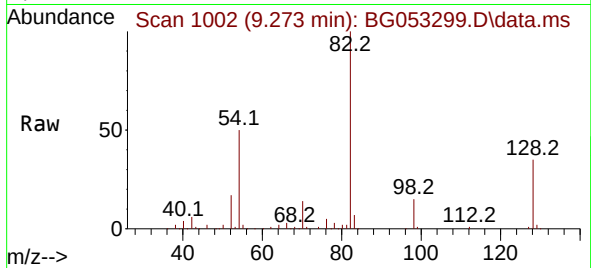
#23
Nitrobenzene-d5
Concen: 34.549 ng
RT: 9.273 min Scan# 1004
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

Instrument :
BNA_G
ClientSampleId :
PAT-01-041922

Tgt Ion: 82 Resp: 135045
Ion Ratio Lower Upper
82 100
128 35.2 31.3 46.9
54 50.1 37.8 56.8

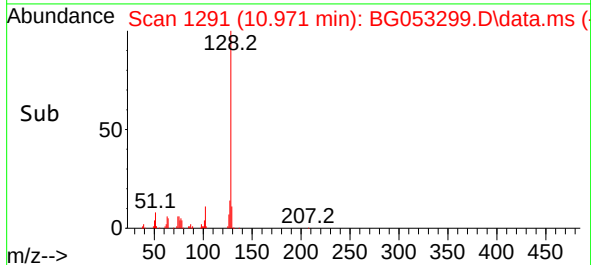
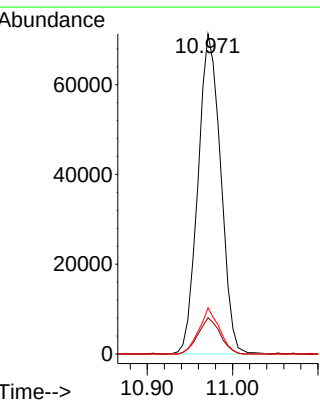
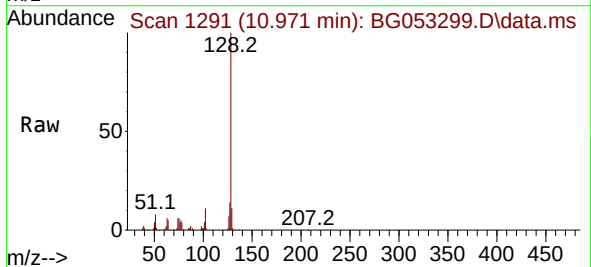
Manual Integrations
APPROVED

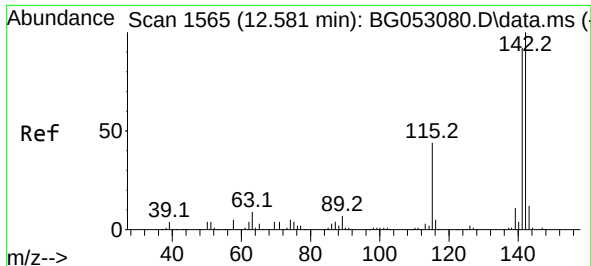
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022



#31
Naphthalene
Concen: 15.558 ng
RT: 10.971 min Scan# 1291
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

Tgt Ion:128 Resp: 131740
Ion Ratio Lower Upper
128 100
129 11.3 8.8 13.2
127 14.4 10.5 15.7





#37

2-Methylnaphthalene

Concen: 7.687 ng

RT: 12.569 min Scan# 1

Delta R.T. -0.003 min

Lab File: BG053299.D

Acq: 23 Apr 2022 18:55

Instrument :

BNA_G

ClientSampleId :

PAT-01-041922

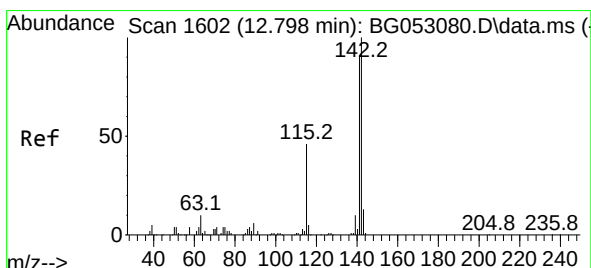
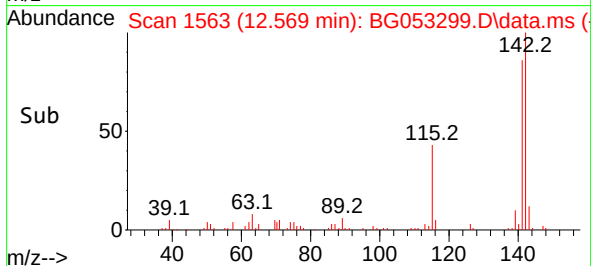
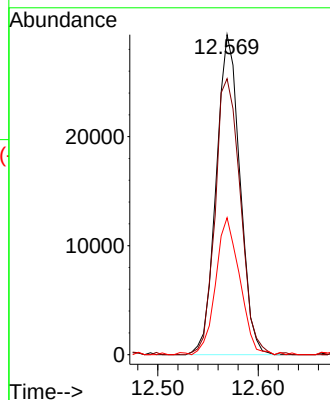
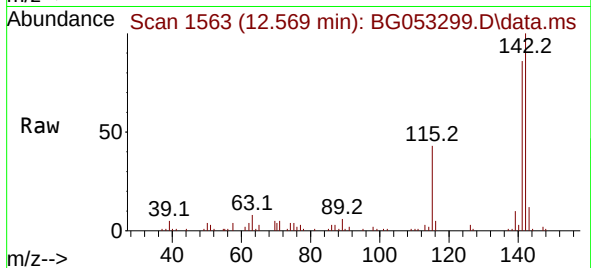
Tgt Ion:	142	Resp:	4816
Ion Ratio	Lower	Upper	
142	100		
141	86.3	71.3	106.9
115	42.8	29.5	44.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/25/2022

Supervised By :Jagrut Upadhyay 04/25/2022



#38

1-Methylnaphthalene

Concen: 6.113 ng

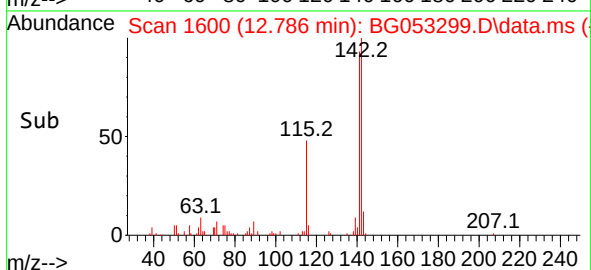
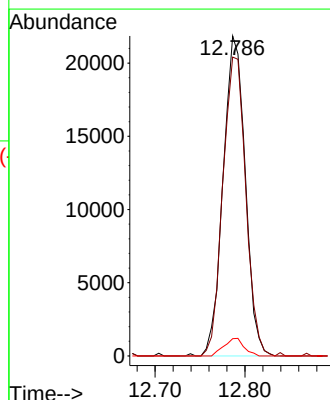
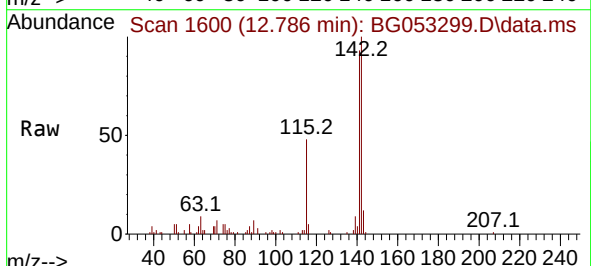
RT: 12.786 min Scan# 1600

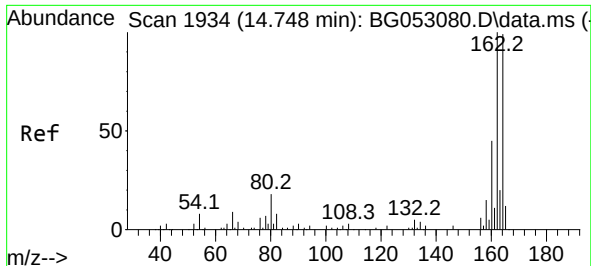
Delta R.T. -0.003 min

Lab File: BG053299.D

Acq: 23 Apr 2022 18:55

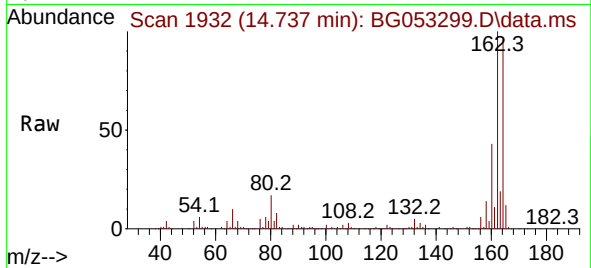
Tgt Ion:	142	Resp:	37385
Ion Ratio	Lower	Upper	
142	100		
141	93.4	70.5	105.7
116	5.4	3.1	4.7#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.737 min Scan# 1932
Delta R.T. 0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

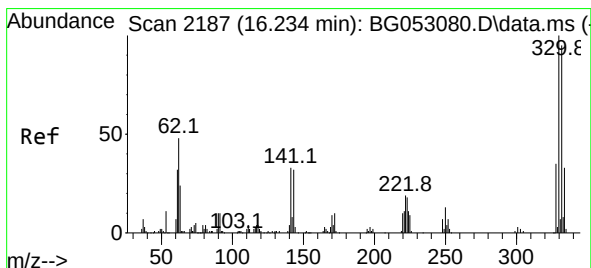
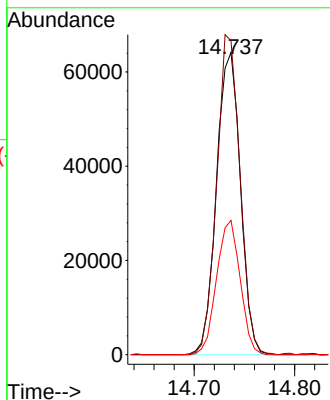
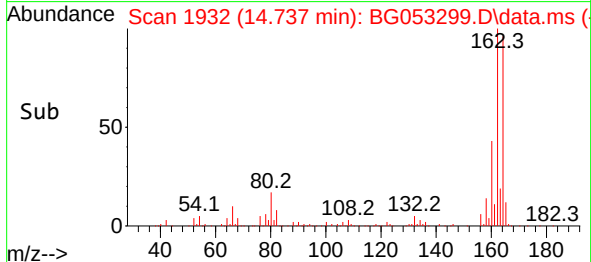
Instrument :
BNA_G
ClientSampleId :
PAT-01-041922



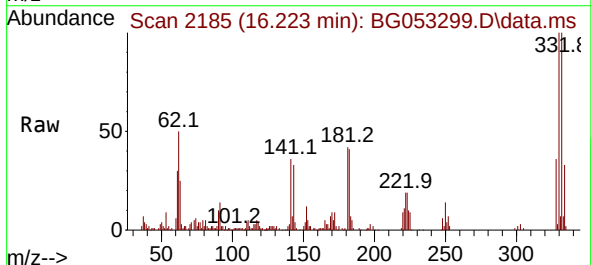
Tgt Ion:164 Resp: 10626
Ion Ratio Lower Upper
164 100
162 103.9 80.0 120.0
160 44.4 38.8 58.2

Manual Integrations
APPROVED

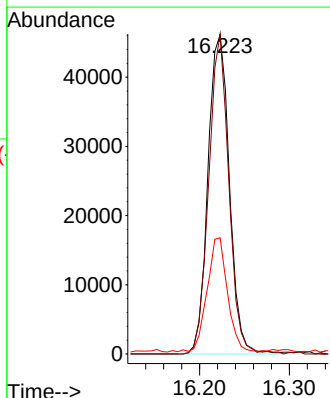
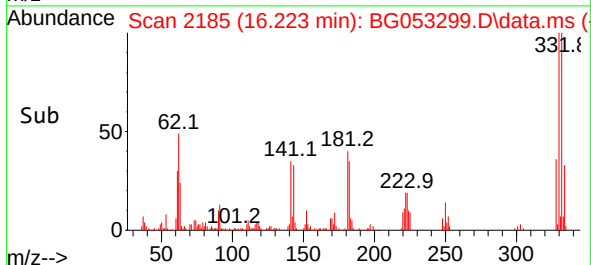
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022

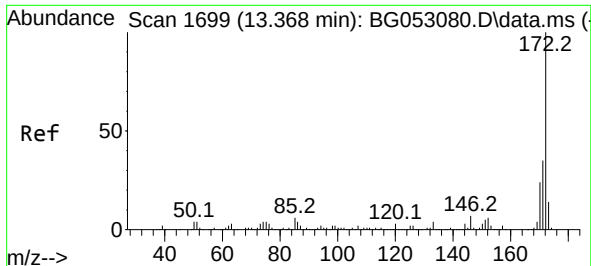


#42
2,4,6-Tribromophenol
Concen: 45.115 ng
RT: 16.223 min Scan# 2185
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55



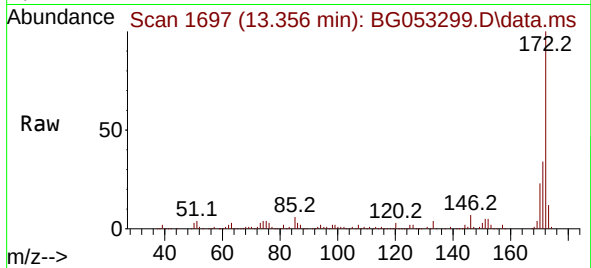
Tgt Ion:330 Resp: 76275
Ion Ratio Lower Upper
330 100
332 93.9 75.8 113.6
141 34.2 24.6 36.8





#45
2-Fluorobiphenyl
Concen: 34.124 ng
RT: 13.356 min Scan# 1697
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

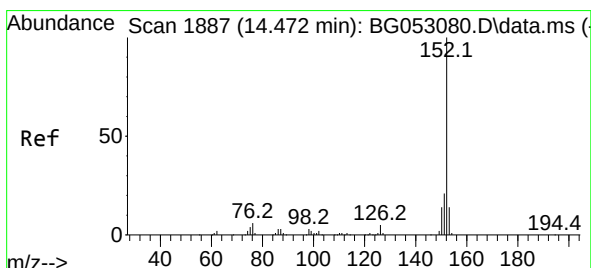
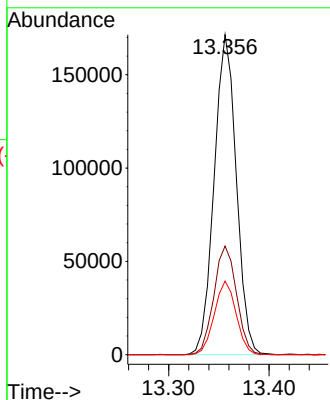
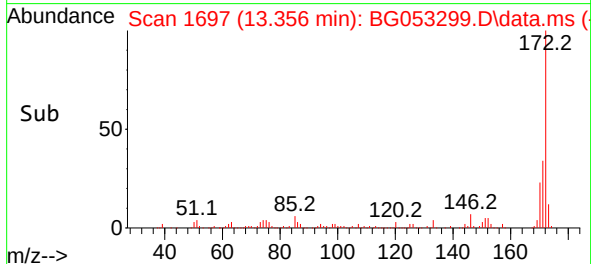
Instrument :
BNA_G
ClientSampleId :
PAT-01-041922



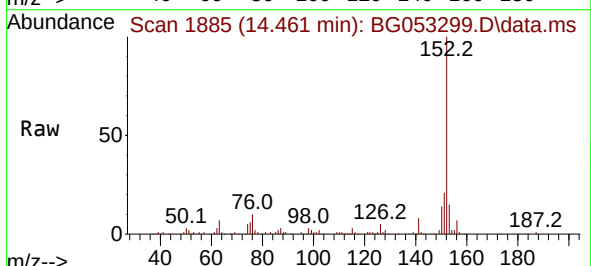
Tgt Ion:172 Resp: 262980
Ion Ratio Lower Upper
172 100
171 34.0 28.3 42.5
170 23.0 18.0 27.0

Manual Integrations
APPROVED

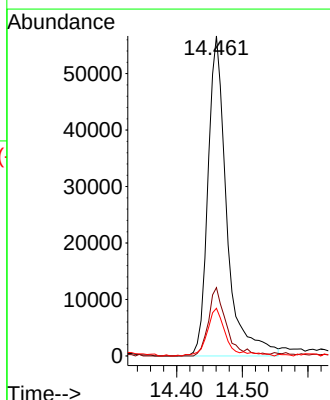
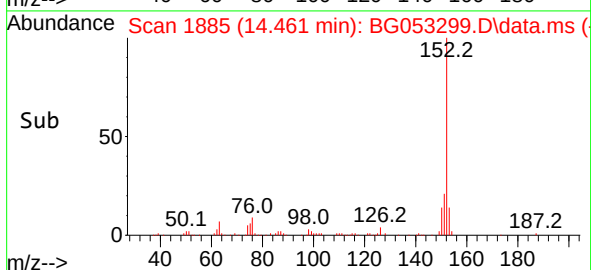
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022

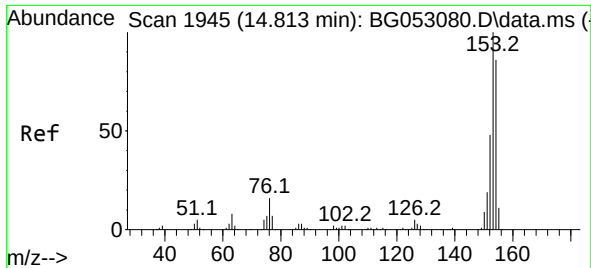


#49
Acenaphthylene
Concen: 11.816 ng
RT: 14.461 min Scan# 1885
Delta R.T. 0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55



Tgt Ion:152 Resp: 112929
Ion Ratio Lower Upper
152 100
151 21.3 15.8 23.6
153 14.9 10.6 15.8





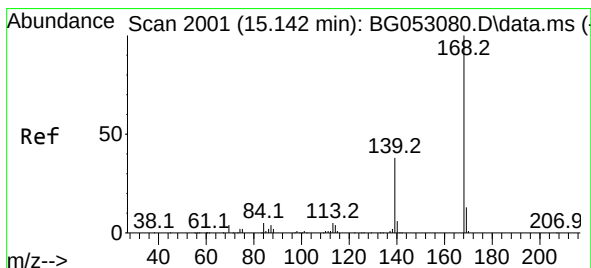
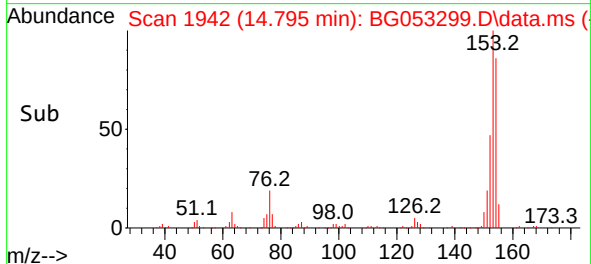
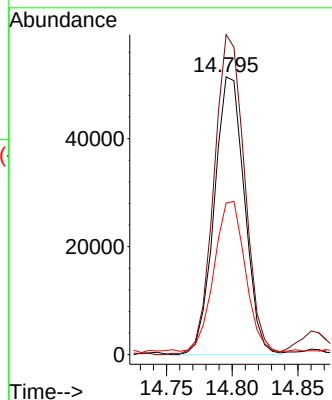
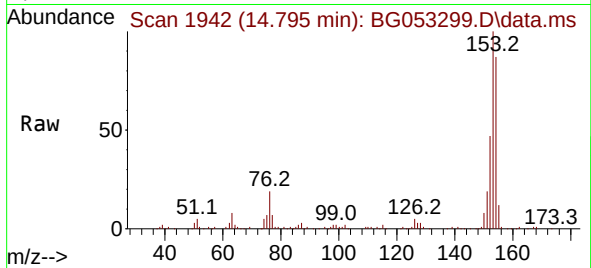
#52
Acenaphthene
Concen: 12.729 ng
RT: 14.795 min Scan# 1942
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

Instrument :
BNA_G
ClientSampleId :
PAT-01-041922

Tgt Ion:154 Resp: 8250
Ion Ratio Lower Upper
154 100
153 115.2 89.0 133.4
152 54.6 40.5 60.7

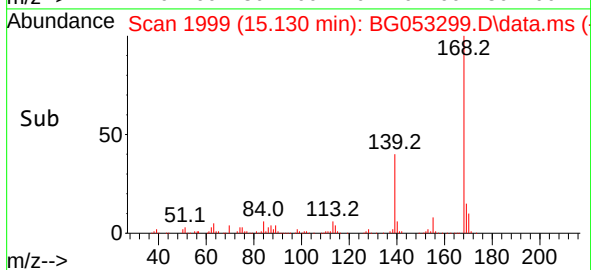
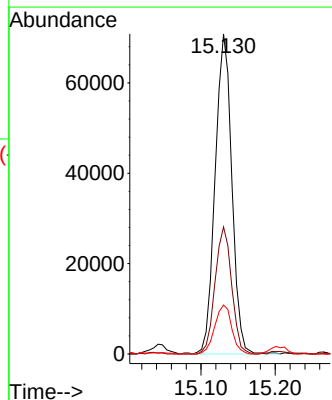
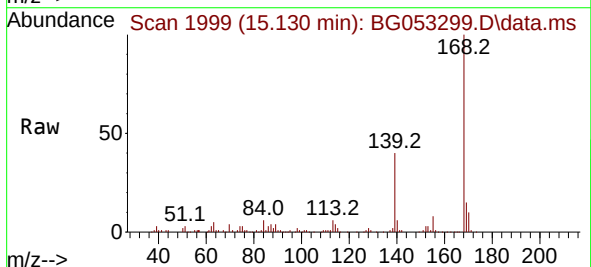
Manual Integrations
APPROVED

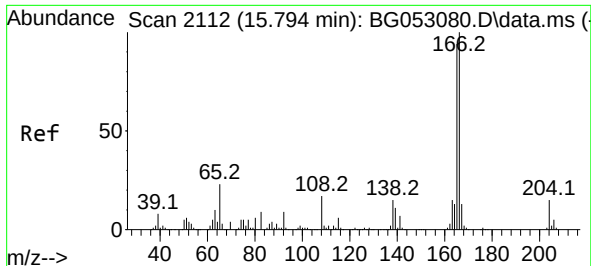
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022



#55
Dibenzofuran
Concen: 10.904 ng
RT: 15.130 min Scan# 1999
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

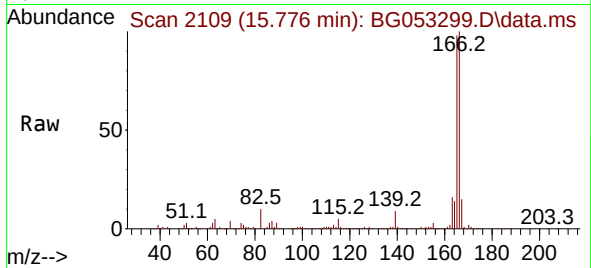
Tgt Ion:168 Resp: 110663
Ion Ratio Lower Upper
168 100
139 39.7 30.2 45.4
169 15.3 10.7 16.1





#58
Fluorene
Concen: 20.513 ng
RT: 15.776 min Scan# 2112
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

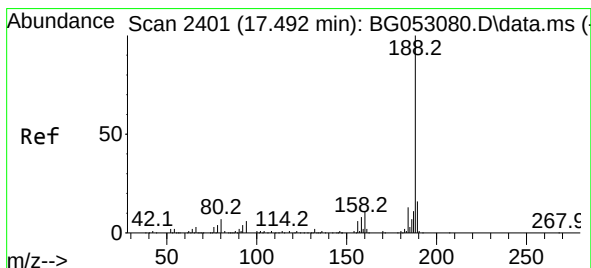
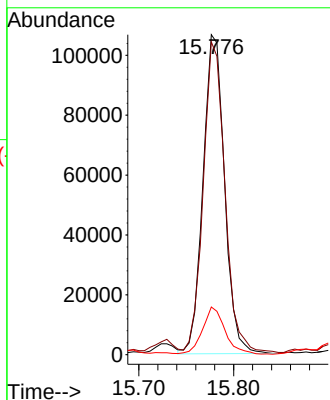
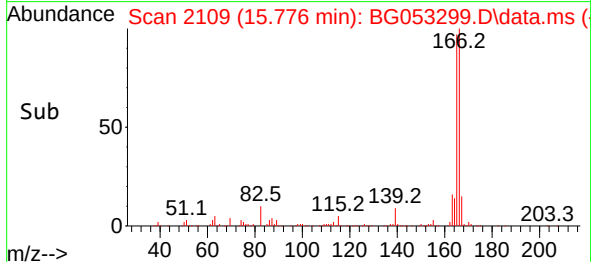
Instrument :
BNA_G
ClientSampleId :
PAT-01-041922



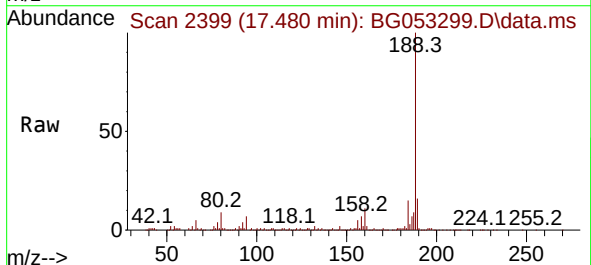
Tgt Ion:166 Resp: 168140
Ion Ratio Lower Upper
166 100
165 97.7 78.6 117.8
167 14.9 10.9 16.3

Manual Integrations
APPROVED

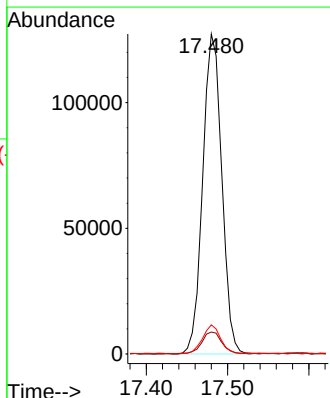
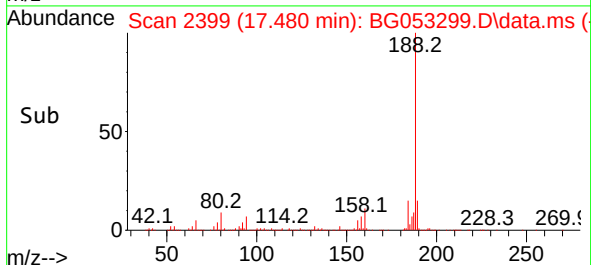
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022

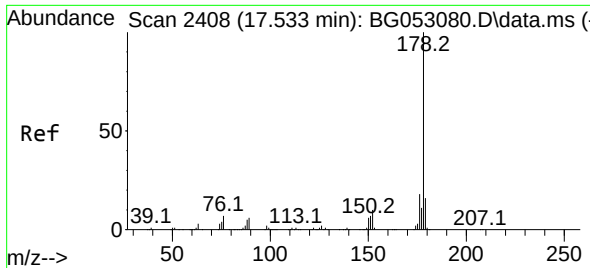


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.480 min Scan# 2399
Delta R.T. -0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55



Tgt Ion:188 Resp: 207201
Ion Ratio Lower Upper
188 100
94 6.8 5.7 8.5
80 9.1 7.2 10.8





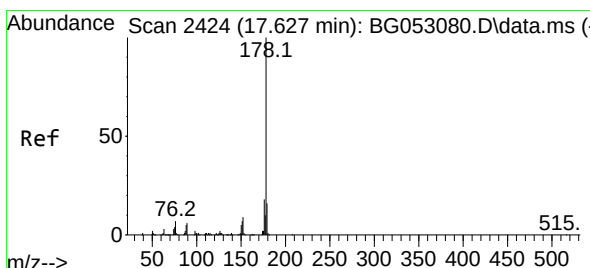
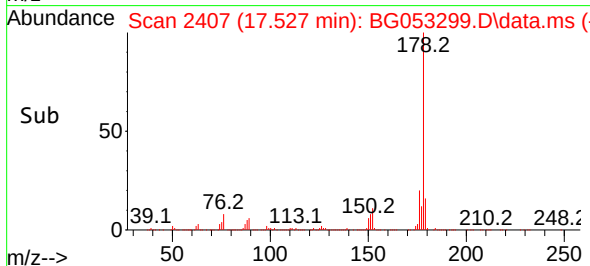
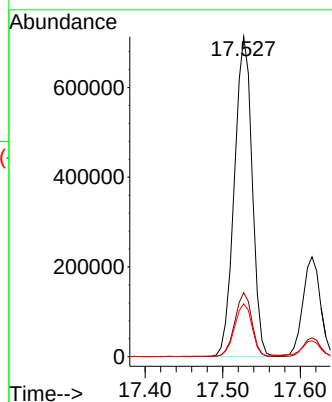
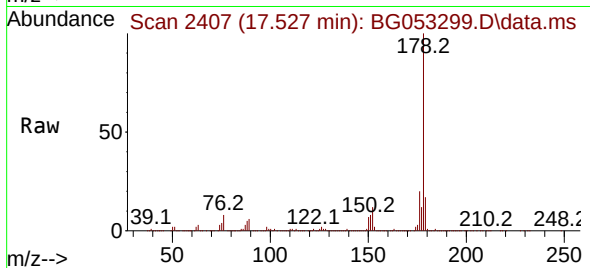
#71
Phenanthrene
Concen: 100.076 ng
RT: 17.527 min Scan# 2407
Delta R.T. 0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

Instrument :
BNA_G
ClientSampleId :
PAT-01-041922

Tgt Ion:178 Resp: 113263
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 16.5 13.4 20.2

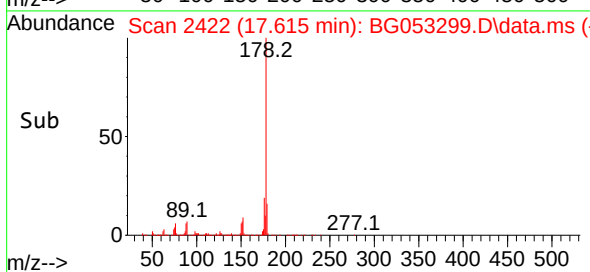
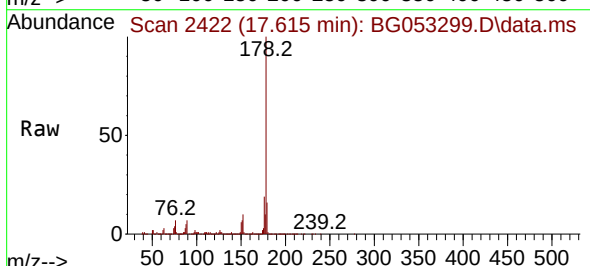
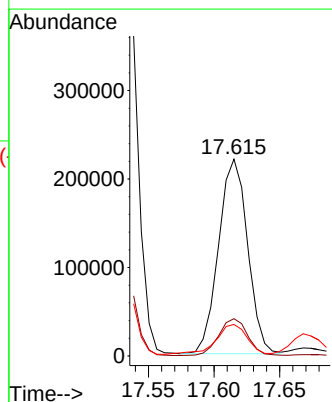
Manual Integrations
APPROVED

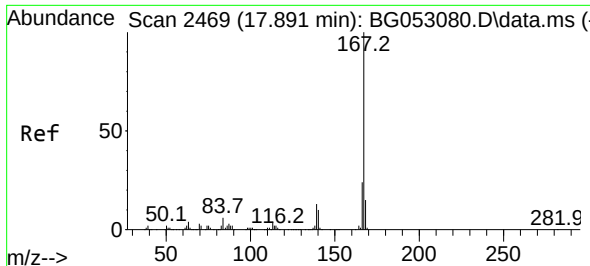
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022



#72
Anthracene
Concen: 30.186 ng
RT: 17.615 min Scan# 2422
Delta R.T. 0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

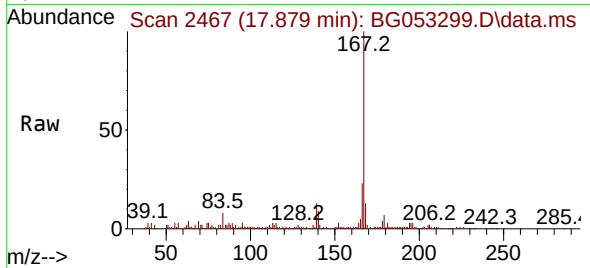
Tgt Ion:178 Resp: 338461
Ion Ratio Lower Upper
178 100
176 18.9 14.7 22.1
179 16.0 13.2 19.8





#73
 Carbazole
 Concen: 8.110 ng
 RT: 17.879 min Scan# 2467
 Delta R.T. -0.003 min
 Lab File: BG053299.D
 Acq: 23 Apr 2022 18:55

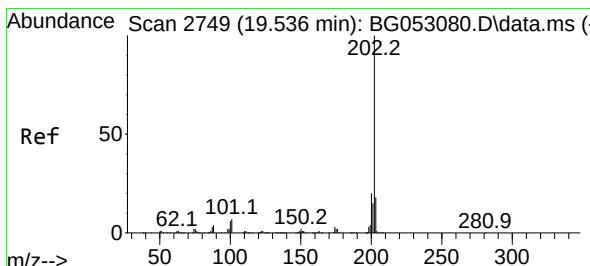
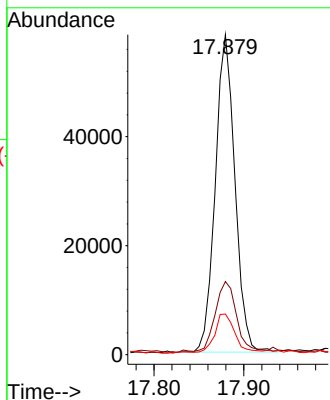
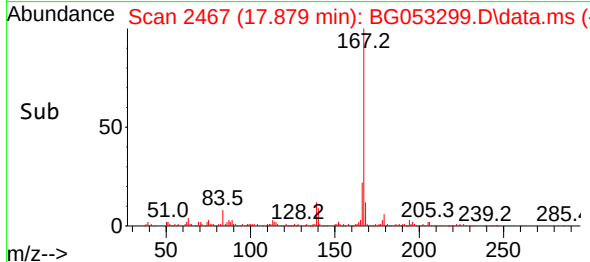
Instrument :
 BNA_G
 ClientSampleId :
 PAT-01-041922



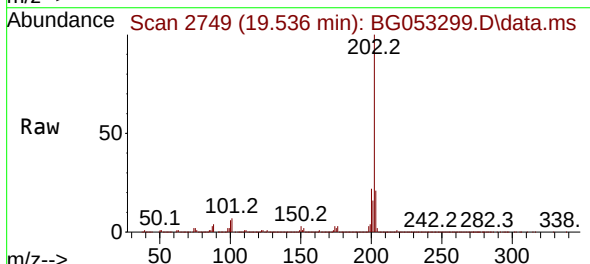
Tgt Ion:167 Resp: 8839
 Ion Ratio Lower Upper
 167 100
 166 22.9 18.5 27.7
 139 12.7 10.0 15.0

Manual Integrations
 APPROVED

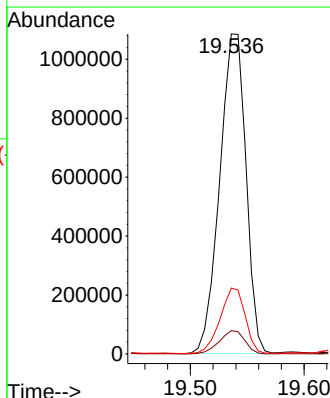
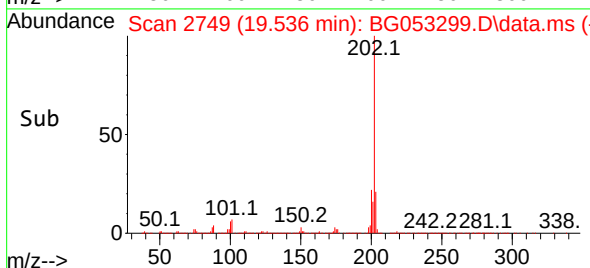
Reviewed By :Christian Giraldo 04/25/2022
 Supervised By :Jagrut Upadhyay 04/25/2022

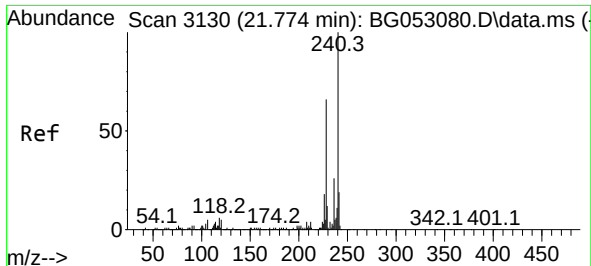


#75
 Fluoranthene
 Concen: 120.012 ng
 RT: 19.536 min Scan# 2749
 Delta R.T. 0.009 min
 Lab File: BG053299.D
 Acq: 23 Apr 2022 18:55



Tgt Ion:202 Resp: 1741066
 Ion Ratio Lower Upper
 202 100
 101 7.3 0.0 27.3
 203 20.6 0.0 37.7





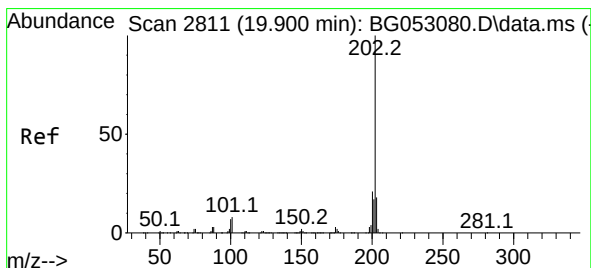
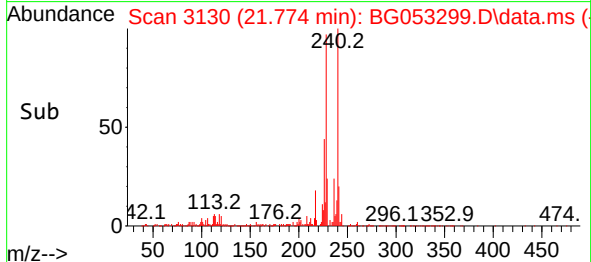
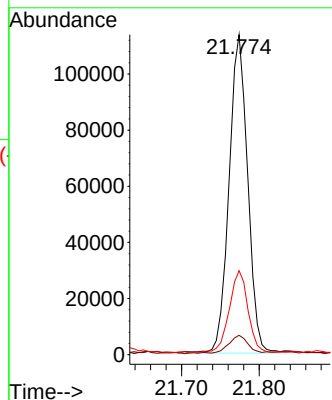
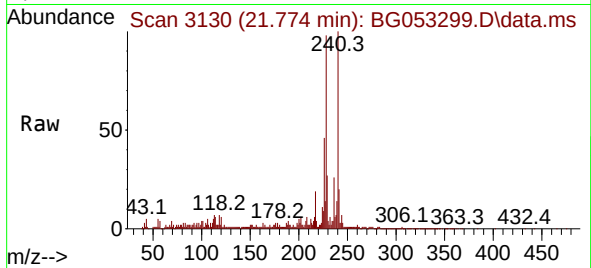
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.774 min Scan# 3130
Delta R.T. 0.009 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

Instrument :
BNA_G
ClientSampleId :
PAT-01-041922

Tgt Ion:240 Resp: 18914
Ion Ratio Lower Upper
240 100
120 6.0 5.4 8.0
236 26.3 19.8 29.6

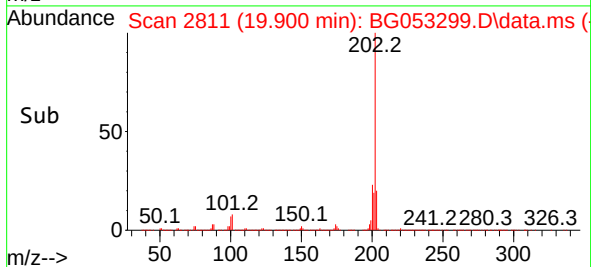
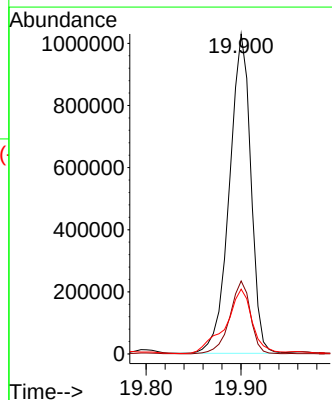
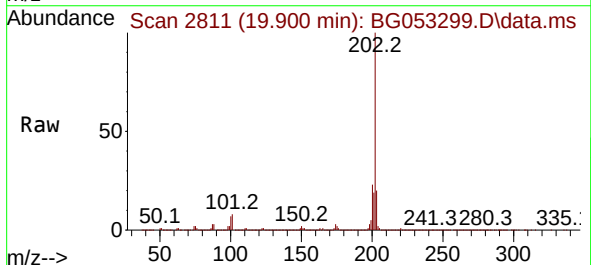
Manual Integrations
APPROVED

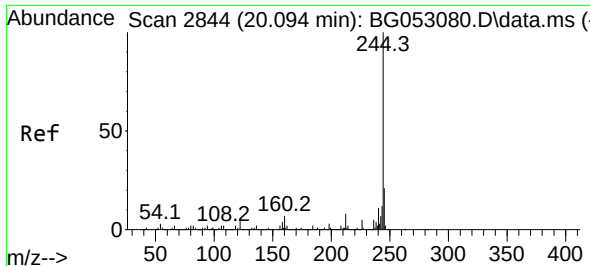
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022



#78
Pyrene
Concen: 119.356 ng
RT: 19.900 min Scan# 2811
Delta R.T. 0.009 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

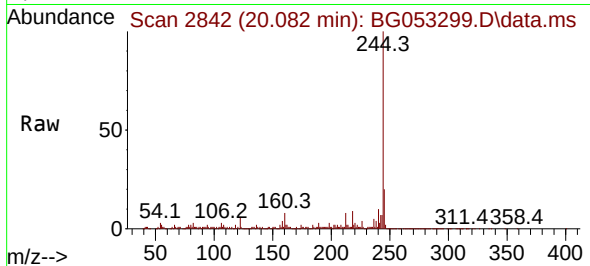
Tgt Ion:202 Resp: 1607813
Ion Ratio Lower Upper
202 100
200 22.8 17.0 25.6
203 20.3 15.0 22.6





#79
 Terphenyl-d14
 Concen: 28.975 ng
 RT: 20.082 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG053299.D
 Acq: 23 Apr 2022 18:55

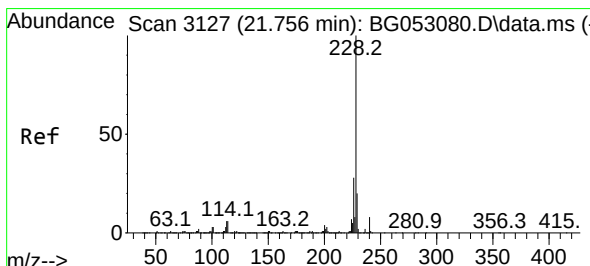
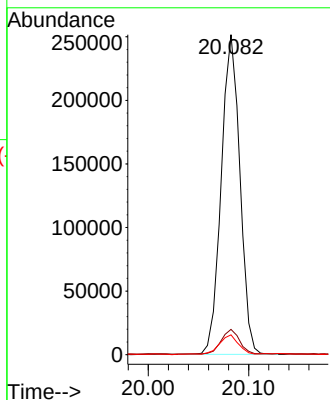
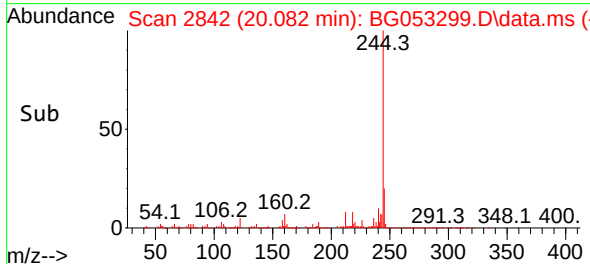
Instrument :
 BNA_G
 ClientSampleId :
 PAT-01-041922



Tgt Ion:244 Resp: 32449
 Ion Ratio Lower Upper
 244 100
 212 7.9 5.4 8.2
 122 6.2 5.8 8.6

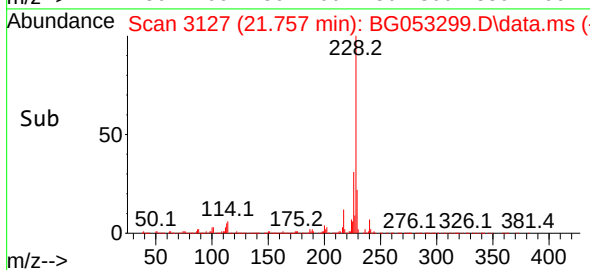
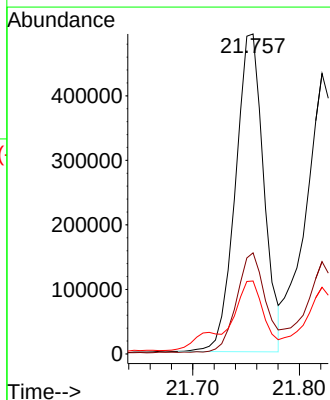
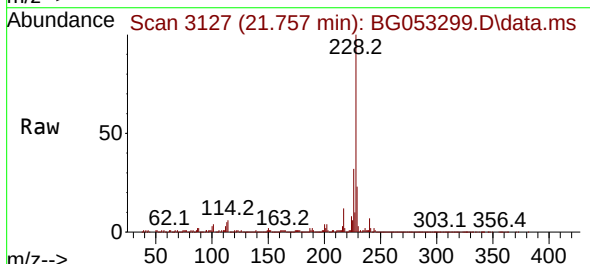
Manual Integrations
 APPROVED

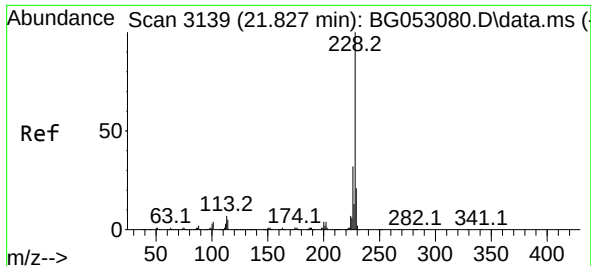
Reviewed By :Christian Giraldo 04/25/2022
 Supervised By :Jagrut Upadhyay 04/25/2022



#81
 Benzo(a)anthracene
 Concen: 70.488 ng
 RT: 21.757 min Scan# 3127
 Delta R.T. 0.009 min
 Lab File: BG053299.D
 Acq: 23 Apr 2022 18:55

Tgt Ion:228 Resp: 911559
 Ion Ratio Lower Upper
 228 100
 226 31.6 21.4 32.0
 229 22.8 16.7 25.1





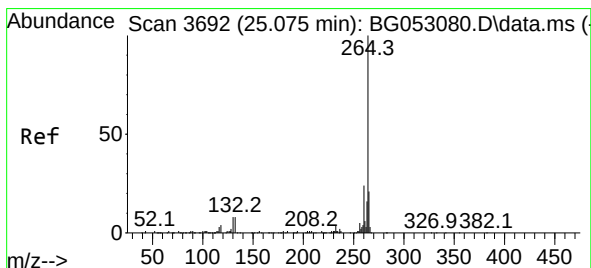
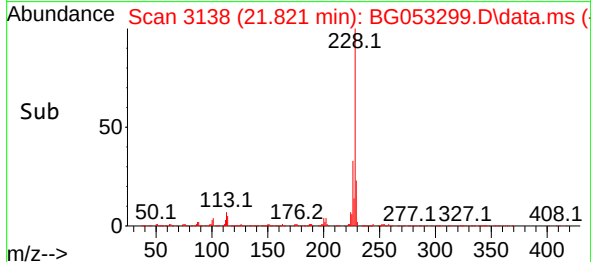
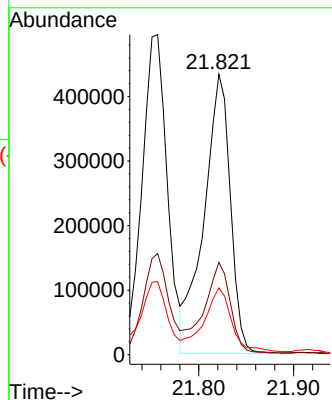
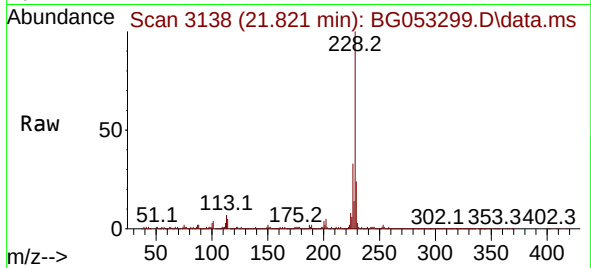
#83
Chrysene
Concen: 69.839 ng
RT: 21.821 min Scan# 3139
Delta R.T. 0.009 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

Instrument :
BNA_G
ClientSampleId :
PAT-01-041922

Tgt Ion:228 Resp: 838204
Ion Ratio Lower Upper
228 100
226 32.9 24.2 36.4
229 23.8 16.3 24.5

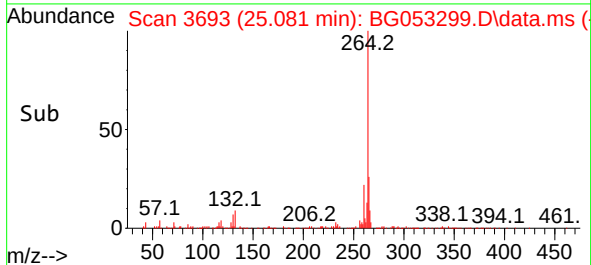
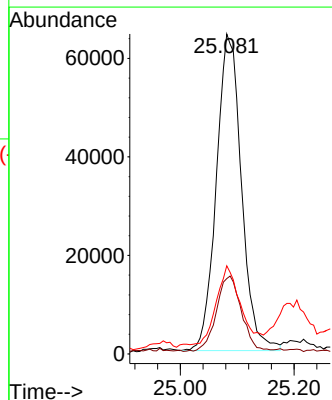
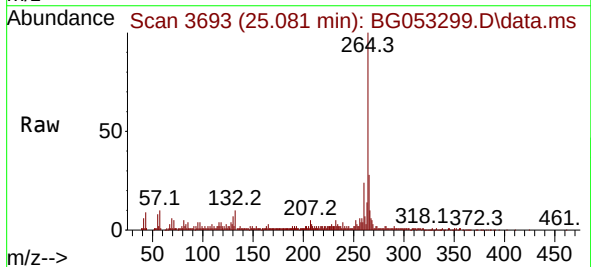
Manual Integrations
APPROVED

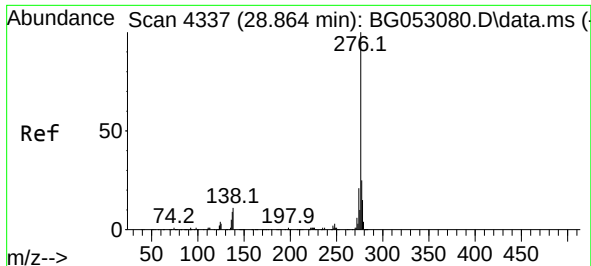
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.081 min Scan# 3693
Delta R.T. 0.020 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

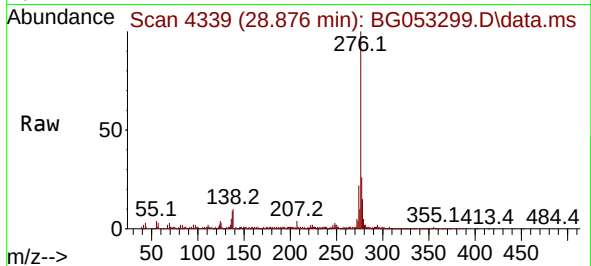
Tgt Ion:264 Resp: 197226
Ion Ratio Lower Upper
264 100
260 23.5 18.2 27.2
265 27.6 15.1 22.7#





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 35.371 ng
 RT: 28.876 min Scan# 4337
 Delta R.T. 0.026 min
 Lab File: BG053299.D
 Acq: 23 Apr 2022 18:55

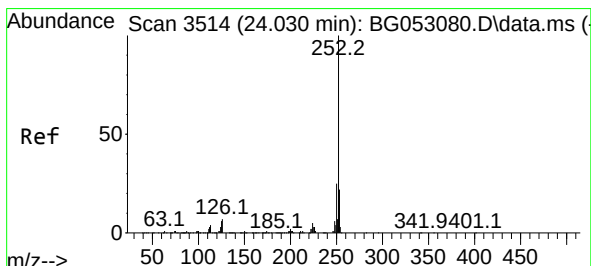
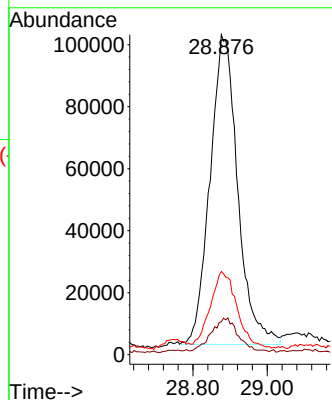
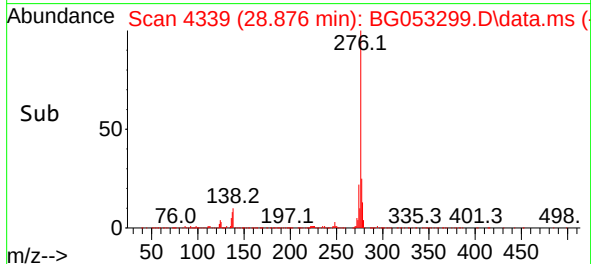
Instrument :
 BNA_G
 ClientSampleId :
 PAT-01-041922



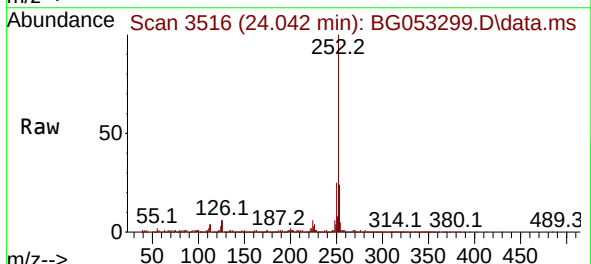
Tgt Ion:276 Resp: 518280
 Ion Ratio Lower Upper
 276 100
 138 10.0 8.7 13.1
 277 24.2 20.2 30.4

Manual Integrations
 APPROVED

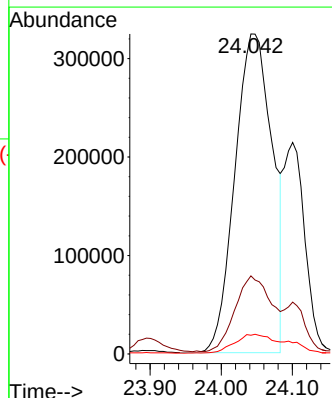
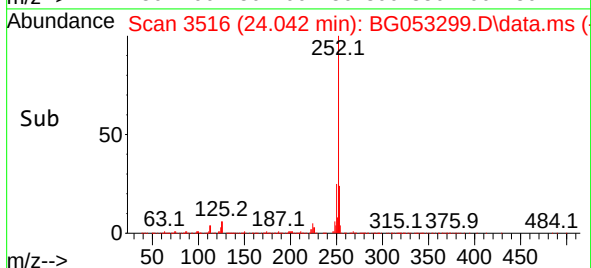
Reviewed By :Christian Giraldo 04/25/2022
 Supervised By :Jagrut Upadhyay 04/25/2022

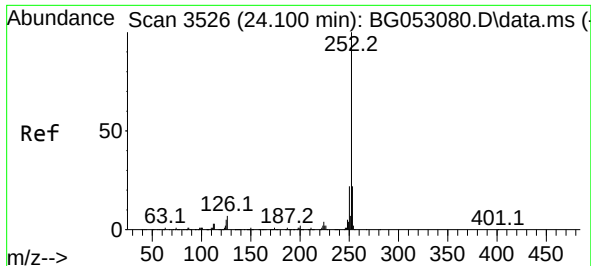


#88
 Benzo(b)fluoranthene
 Concen: 95.197 ng
 RT: 24.042 min Scan# 3516
 Delta R.T. 0.020 min
 Lab File: BG053299.D
 Acq: 23 Apr 2022 18:55



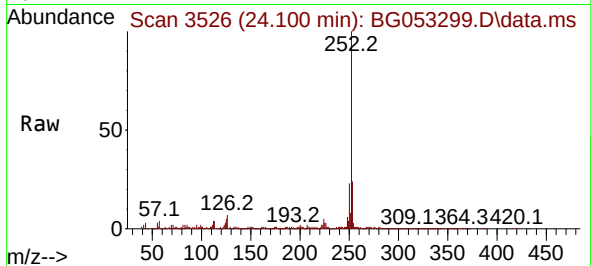
Tgt Ion:252 Resp: 1184608
 Ion Ratio Lower Upper
 252 100
 253 24.4 17.2 25.8
 125 5.9 5.2 7.8





#89
Benzo(k)fluoranthene
Concen: 35.632 ng m
RT: 24.100 min Scan# 3526
Delta R.T. 0.014 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

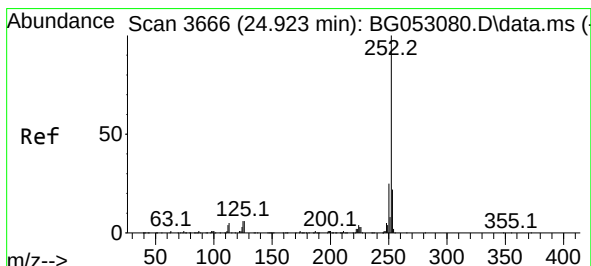
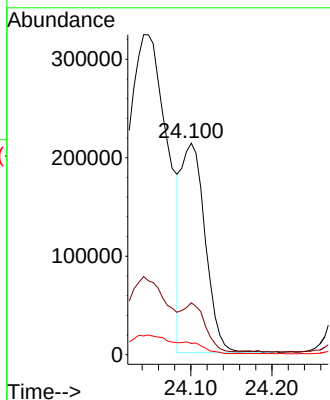
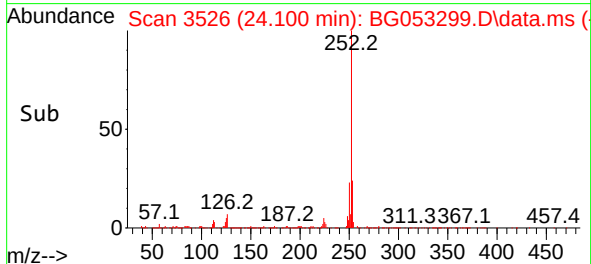
Instrument :
BNA_G
ClientSampleId :
PAT-01-041922



Tgt Ion:252 Resp: 435784
Ion Ratio Lower Upper
252 100
253 24.5 17.4 26.0
125 5.3 5.0 7.4

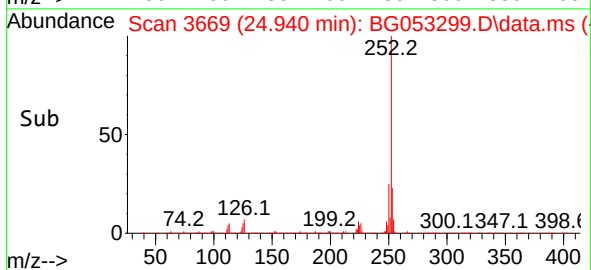
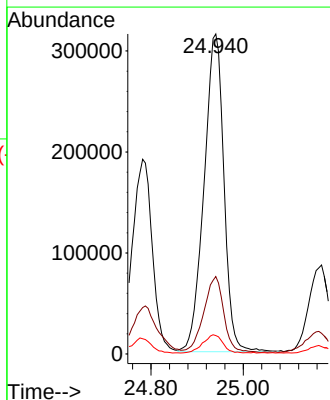
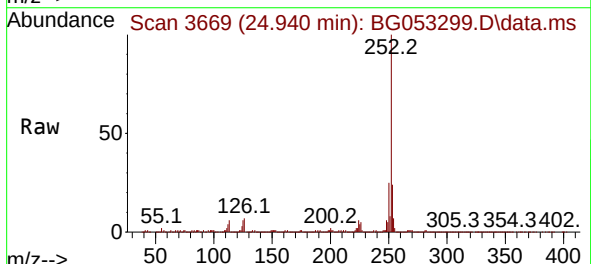
Manual Integrations
APPROVED

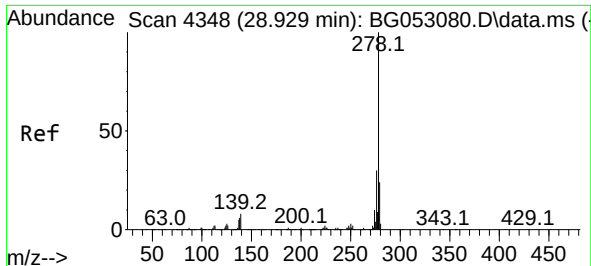
Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022



#90
Benzo(a)pyrene
Concen: 89.058 ng
RT: 24.940 min Scan# 3669
Delta R.T. 0.026 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

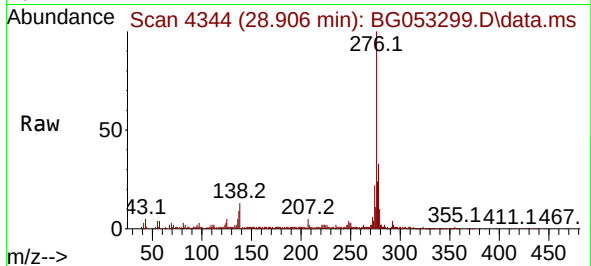
Tgt Ion:252 Resp: 944105
Ion Ratio Lower Upper
252 100
253 24.2 18.4 27.6
125 5.7 5.6 8.4





#91
Dibenzo(a,h)anthracene
Concen: 10.005 ng
RT: 28.906 min Scan# 41
Delta R.T. 0.003 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55

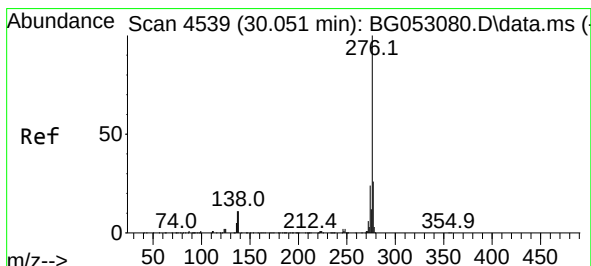
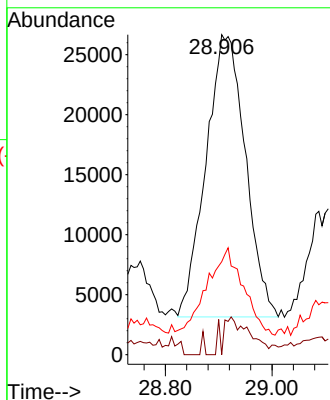
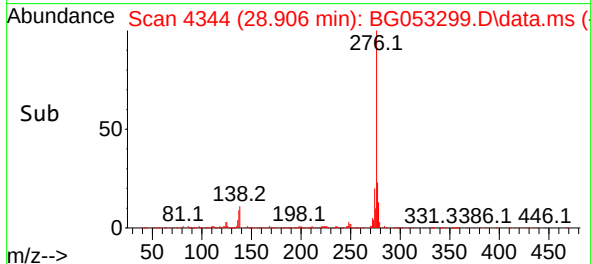
Instrument :
BNA_G
ClientSampleId :
PAT-01-041922



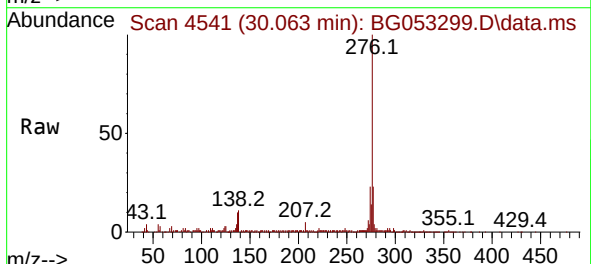
Tgt Ion:278 Resp: 12066
Ion Ratio Lower Upper
278 100
139 0.0 7.8 11.6
279 29.0 18.5 27.7

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 04/25/2022
Supervised By :Jagrut Upadhyay 04/25/2022



#92
Benzo(g,h,i)perylene
Concen: 37.757 ng
RT: 30.063 min Scan# 4541
Delta R.T. 0.026 min
Lab File: BG053299.D
Acq: 23 Apr 2022 18:55



Tgt Ion:276 Resp: 448814
Ion Ratio Lower Upper
276 100
277 23.2 18.2 27.2
138 11.2 9.1 13.7

