

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102022\
 Data File : BG055220.D
 Acq On : 20 Oct 2022 13:43
 Operator : CG/JU
 Sample : N5172-01DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 BU-02-101722DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 10/21/2022
 Supervised By : Jagrut Upadhyay 10/21/2022

Quant Time: Oct 20 15:36:55 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG101922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 20 09:21:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.282	152	61469	20.000	ng	0.00
21) Naphthalene-d8	11.114	136	276434	20.000	ng	0.00
39) Acenaphthene-d10	14.897	164	161686	20.000	ng	0.00
64) Phenanthrene-d10	17.630	188	305392	20.000	ng	0.00
76) Chrysene-d12	21.913	240	255480	20.000	ng	0.00
86) Perylene-d12	25.326	264	268398	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.802	112	44473	13.017	ng	0.00
7) Phenol-d6	7.418	99	60760	11.671	ng	0.00
23) Nitrobenzene-d5	9.451	82	38350	6.698	ng	-0.01
42) 2,4,6-Tribromophenol	16.372	330	16316	9.739	ng	0.00
45) 2-Fluorobiphenyl	13.523	172	79593	7.863	ng	0.00
79) Terphenyl-d14	20.203	244	95361	6.955	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.166	128	214073	14.676	ng	99
37) 2-Methylnaphthalene	12.747	142	100177	9.029	ng	96
38) 1-Methylnaphthalene	12.964	142	79706	7.277	ng	99
46) 1,1'-Biphenyl	13.734	154	23606	2.062	ng	98
52) Acenaphthene	14.962	154	36788	3.832	ng	95
55) Dibenzofuran	15.291	168	100634	7.277	ng	98
58) Fluorene	15.937	166	165797	14.237	ng	98
71) Phenanthrene	17.677	178	886700	54.411	ng	98
72) Anthracene	17.765	178	141090	8.860	ng	99
73) Carbazole	18.023	167	74482	5.079	ng	98
75) Fluoranthene	19.662	202	646894	35.836	ng	100
78) Pyrene	20.021	202	586004	30.441	ng	99
81) Benzo(a)anthracene	21.895	228	277369	16.738	ng	98
83) Chrysene	21.960	228	226633m	14.685	ng	
87) Indeno(1,2,3-cd)pyrene	29.239	276	129937	6.961	ng	# 89
88) Benzo(b)fluoranthene	24.234	252	256368	16.085	ng	# 94
89) Benzo(k)fluoranthene	24.298	252	97065m	6.013	ng	
90) Benzo(a)pyrene	25.162	252	219595	16.052	ng	# 92
91) Dibenzo(a,h)anthracene	29.292	278	37948	2.481	ng	# 86
92) Benzo(g,h,i)perylene	30.467	276	130962	8.840	ng	# 85

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

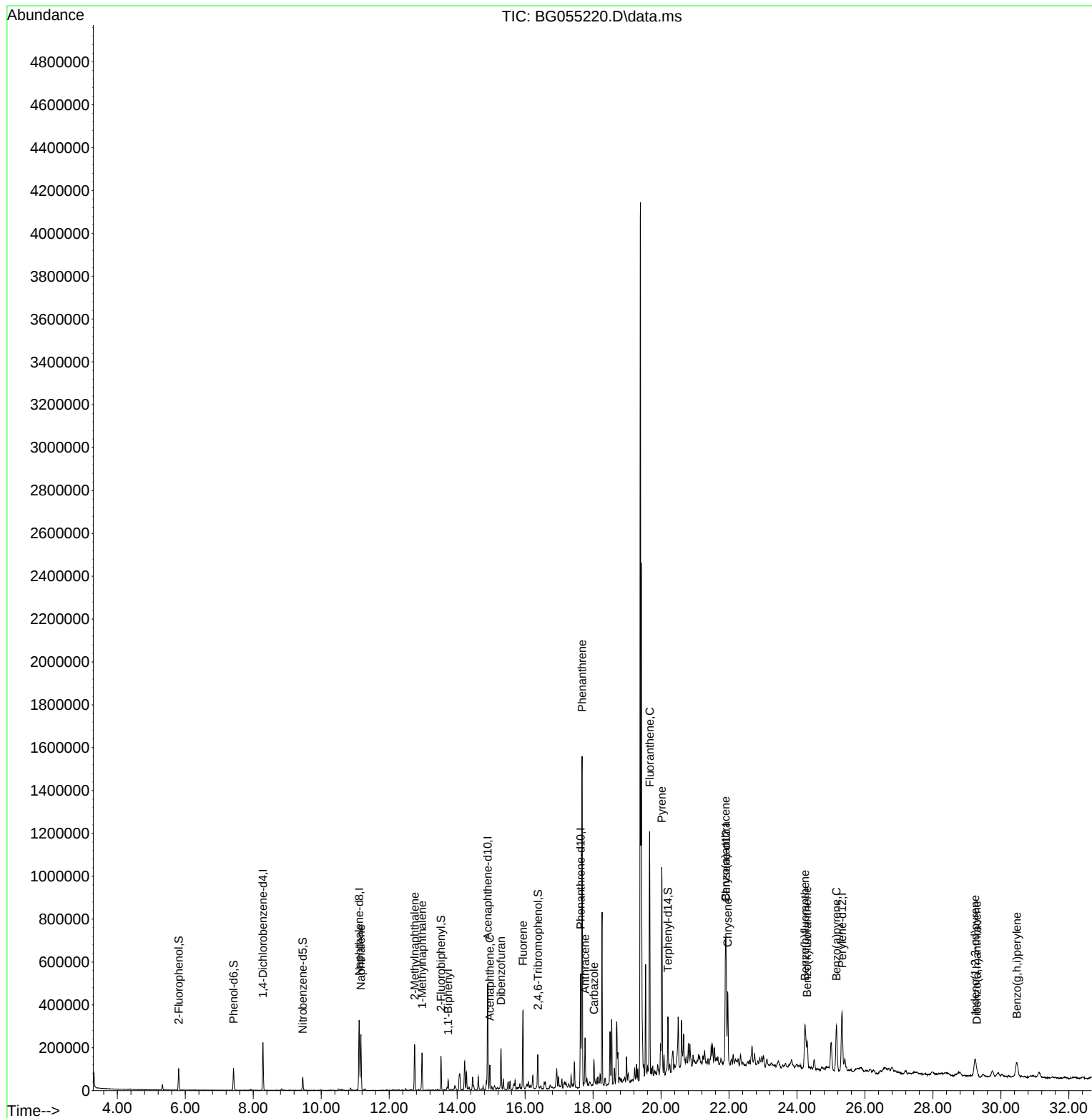
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102022\
Data File : BG055220.D
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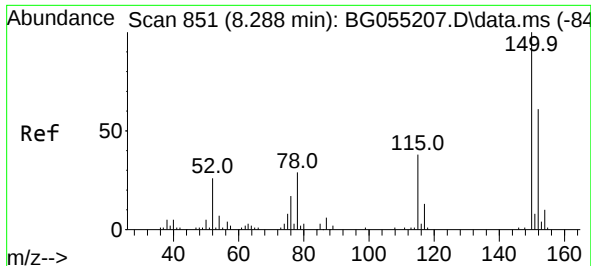
Instrument :
BNA_G
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BU-02-101722DL

Quant Time: Oct 20 15:36:55 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG101922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 20 09:21:42 2022
Response via : Initial Calibration

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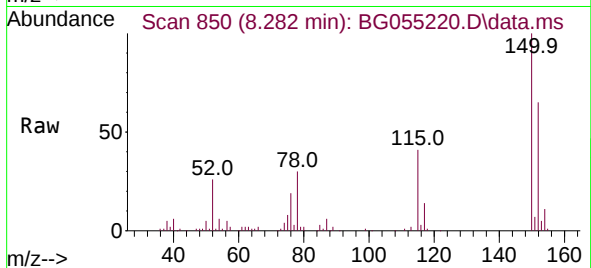
Reviewed By : Christian Giraldo 10/21/2022
Supervised By : Jagrut Upadhyay 10/21/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.282 min Scan# 851
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

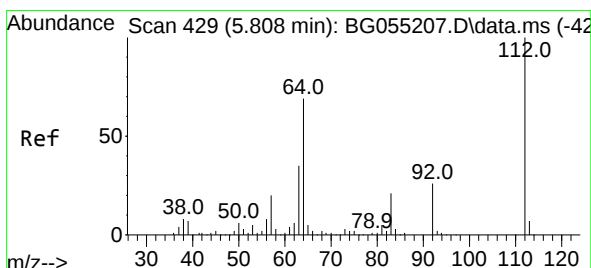
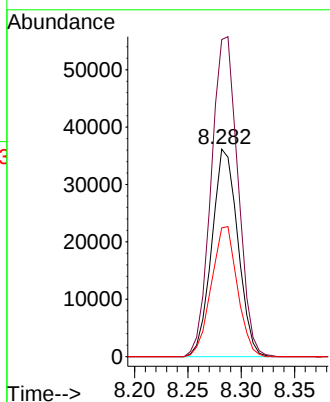
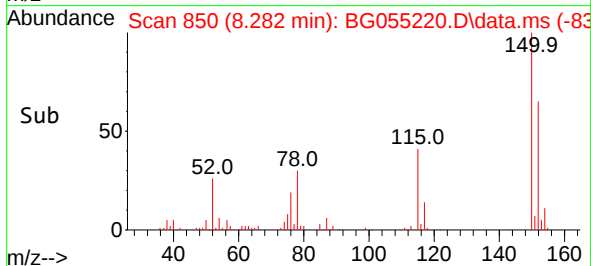
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BNA_G
ClientSampleId :
BU-02-101722DL



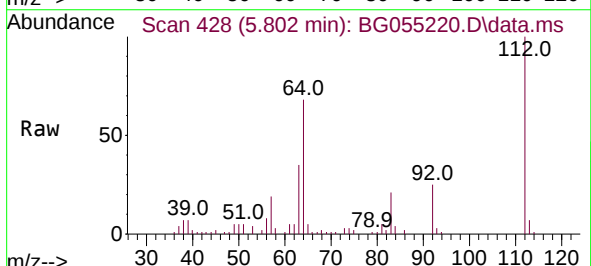
Tgt Ion:152 Resp: 61469
Ion Ratio Lower Upper
152 100
150 152.9 130.2 195.2
115 62.1 50.0 75.0

Manual Integrations
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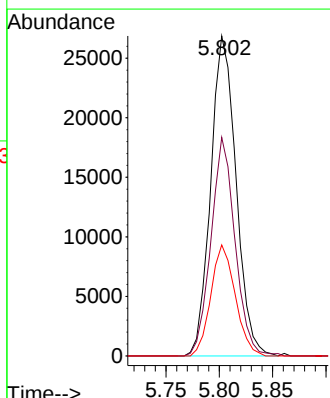
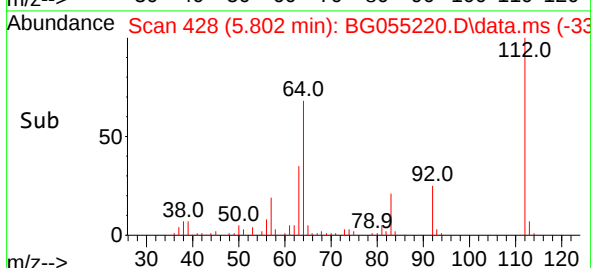
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022

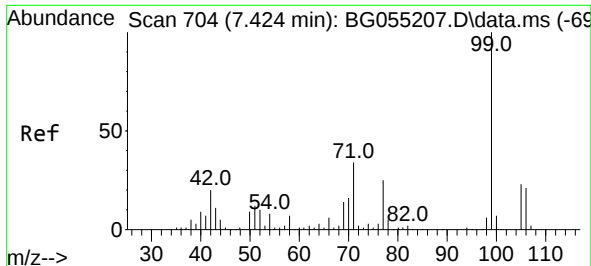


#5
2-Fluorophenol
Concen: 13.017 ng
RT: 5.802 min Scan# 428
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43



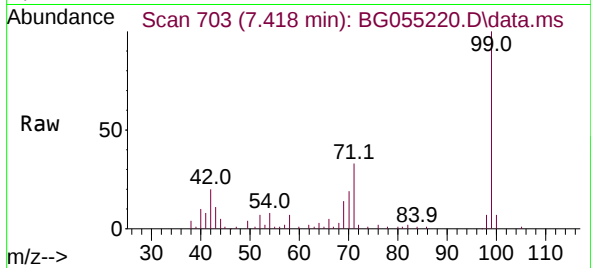
Tgt Ion:112 Resp: 44473
Ion Ratio Lower Upper
112 100
64 68.3 55.1 82.7
63 34.7 27.8 41.6





#7
Phenol-d6
Concen: 11.671 ng
RT: 7.418 min Scan# 704
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

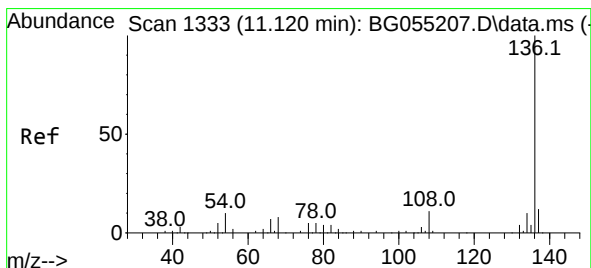
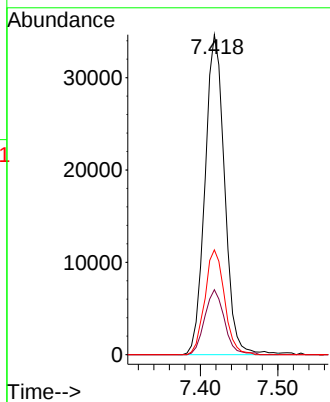
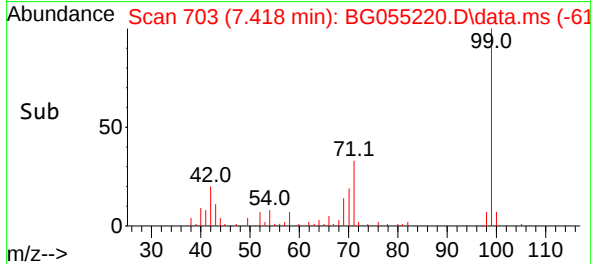
Instrument :
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ClientSampleId :
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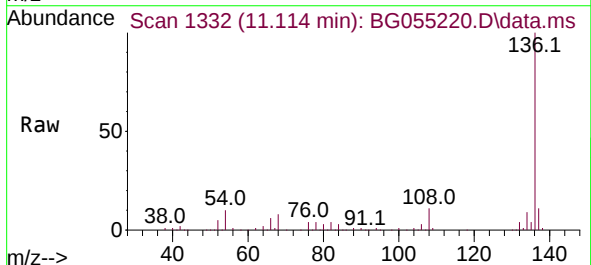
Tgt Ion: 99 Resp: 60760
Ion Ratio Lower Upper
99 100
42 20.3 16.2 24.4
71 32.7 27.3 40.9

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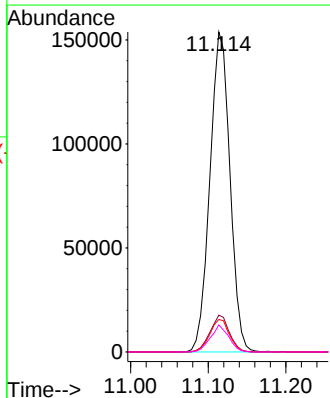
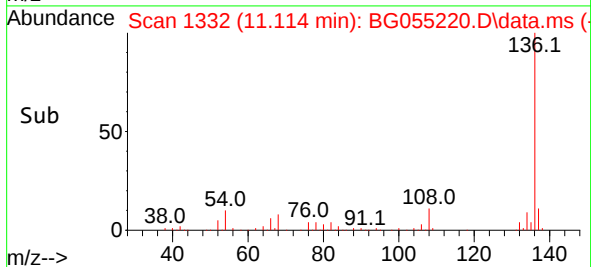
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022

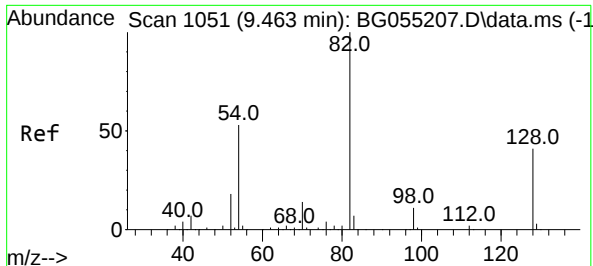


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.114 min Scan# 1332
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43



Tgt Ion:136 Resp: 276434
Ion Ratio Lower Upper
136 100
137 11.5 9.3 13.9
54 10.1 8.2 12.4
68 8.4 6.4 9.6





#23

Nitrobenzene-d5

Concen: 6.698 ng

RT: 9.451 min Scan# 1049

Delta R.T. -0.012 min

Lab File: BG055220.D

Acq: 20 Oct 2022 13:43

Instrument :

BNA_G

ClientSampleId :

BU-02-101722DL

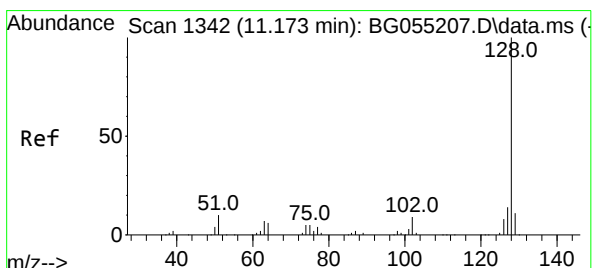
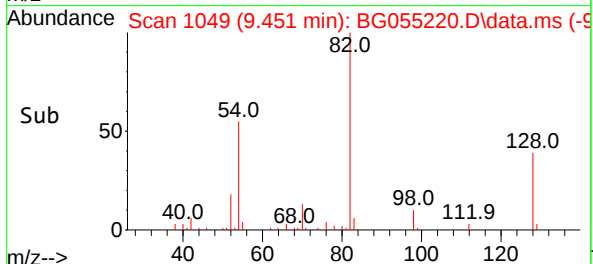
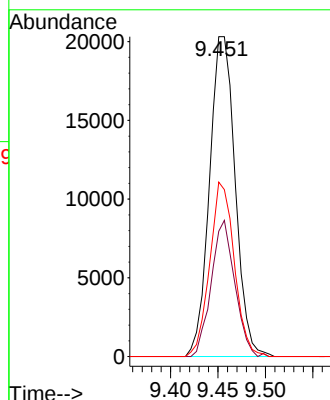
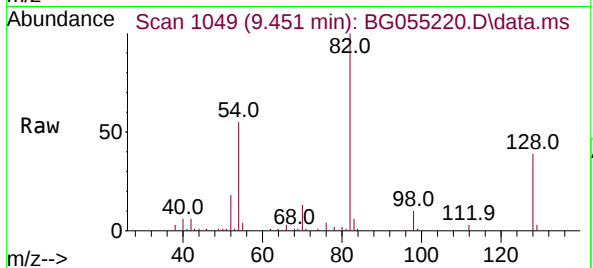
Tgt Ion: 82	Resp: 38350
Ion Ratio	Lower Upper
82 100	
128 39.2	32.3 48.5
54 54.5	42.6 63.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 10/21/2022



#31

Naphthalene

Concen: 14.676 ng

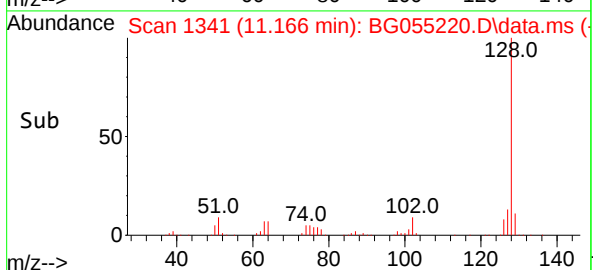
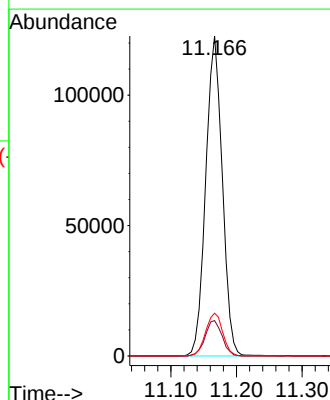
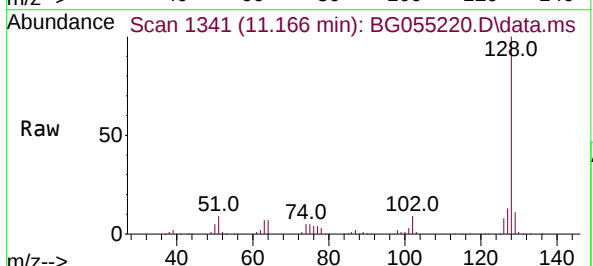
RT: 11.166 min Scan# 1341

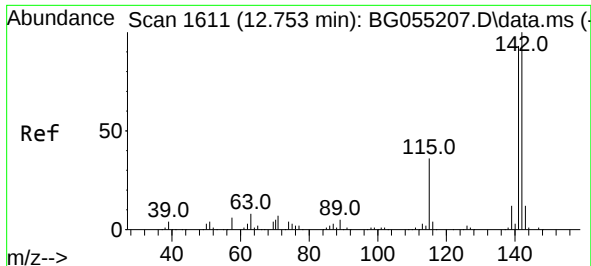
Delta R.T. -0.006 min

Lab File: BG055220.D

Acq: 20 Oct 2022 13:43

Tgt Ion:128	Resp: 214073
Ion Ratio	Lower Upper
128 100	
129 11.1	8.8 13.2
127 13.4	11.4 17.2





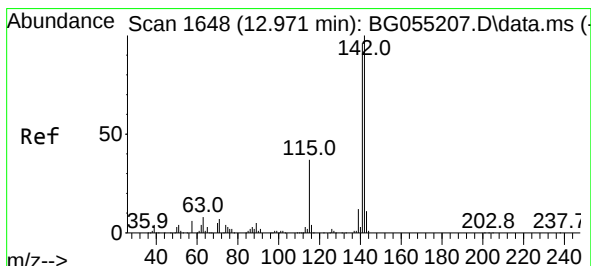
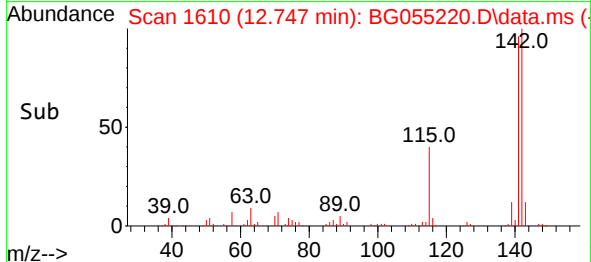
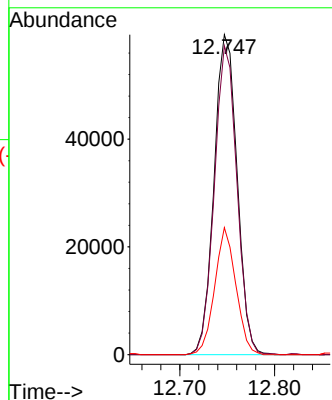
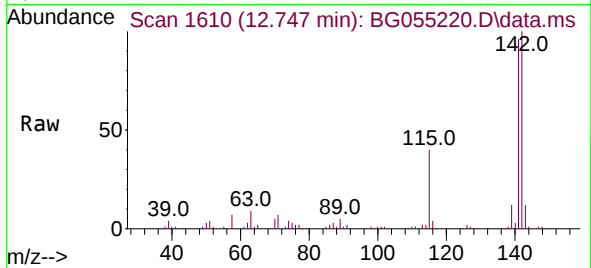
#37
2-Methylnaphthalene
Concen: 9.029 ng
RT: 12.747 min Scan# 1610
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

Instrument :
BNA_G
ClientSampleId :
BU-02-101722DL

Tgt Ion:142 Resp: 10017
Ion Ratio Lower Upper
142 100
141 96.5 74.8 112.2
115 39.7 28.6 43.0

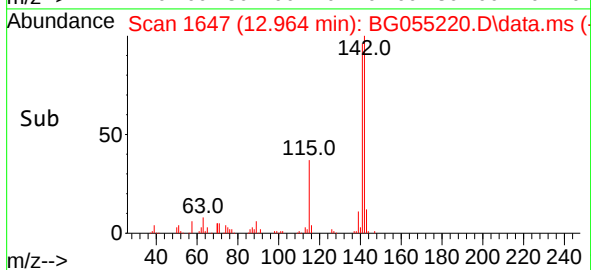
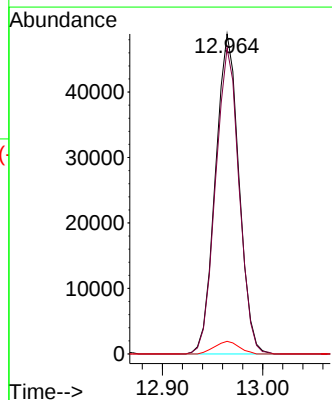
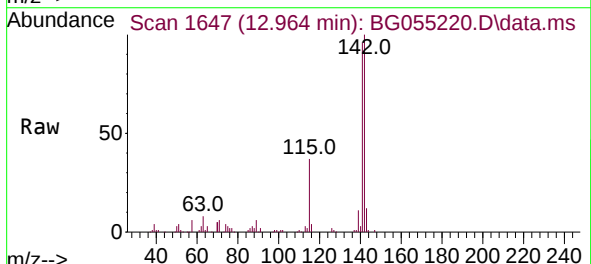
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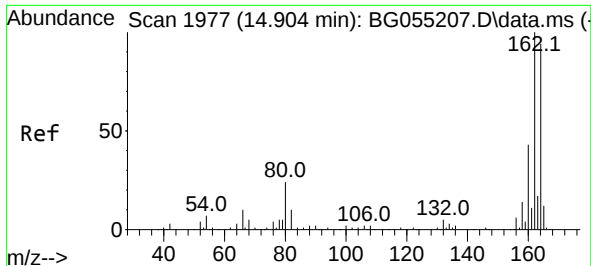
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022



#38
1-Methylnaphthalene
Concen: 7.277 ng
RT: 12.964 min Scan# 1647
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

Tgt Ion:142 Resp: 79706
Ion Ratio Lower Upper
142 100
141 95.5 77.0 115.4
116 3.9 3.0 4.4





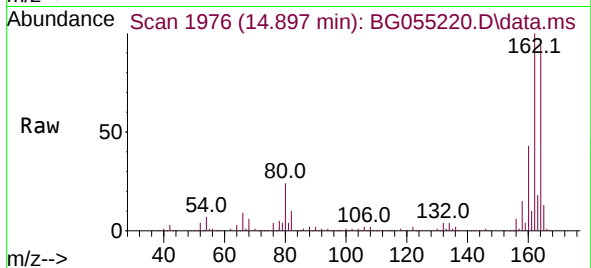
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.897 min Scan# 1976
Delta R.T. -0.007 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

Instrument :

BNA_G

ClientSampleId :

BU-02-101722DL

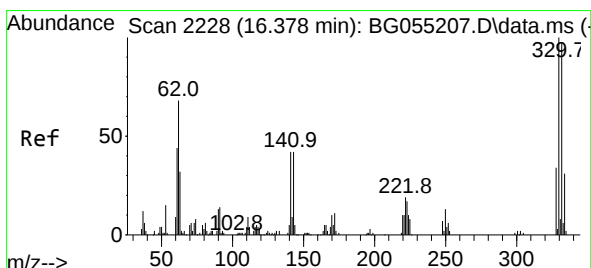
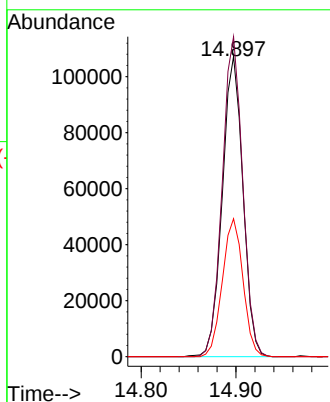
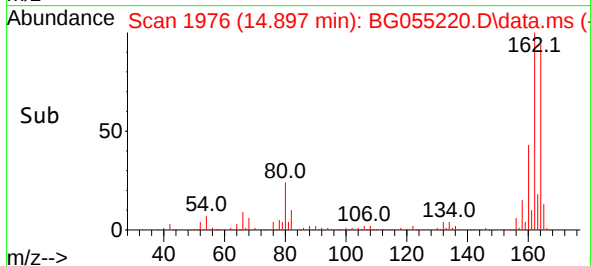


Tgt Ion:164 Resp: 161686
Ion Ratio Lower Upper
164 100
162 106.6 85.2 127.8
160 45.9 36.4 54.6

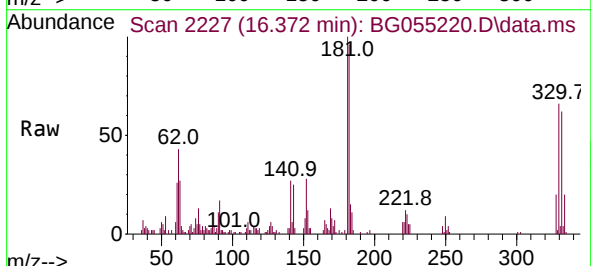
Manual Integrations

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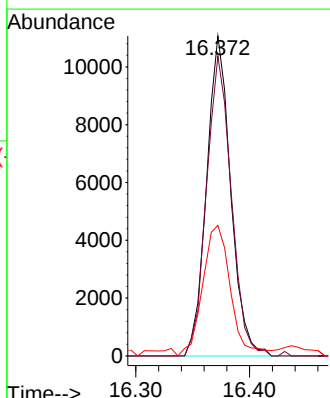
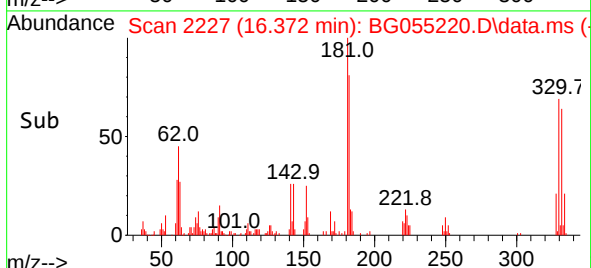
Reviewed By :Christian Giraldo 10/21/2022
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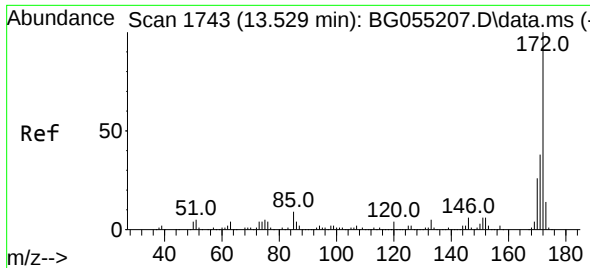


#42
2,4,6-Tribromophenol
Concen: 9.739 ng
RT: 16.372 min Scan# 2227
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43



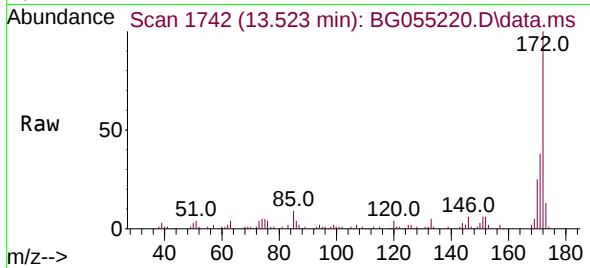
Tgt Ion:330 Resp: 16316
Ion Ratio Lower Upper
330 100
332 96.1 77.5 116.3
141 47.1 33.5 50.3





#45
2-Fluorobiphenyl
Concen: 7.863 ng
RT: 13.523 min Scan# 1742
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

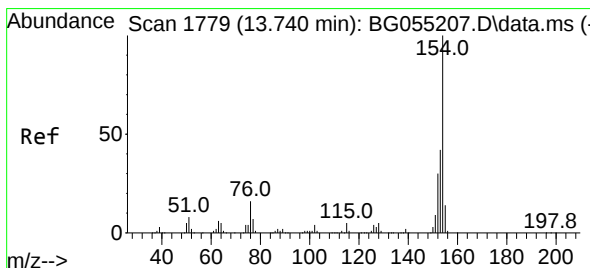
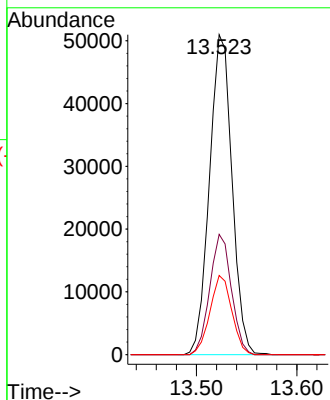
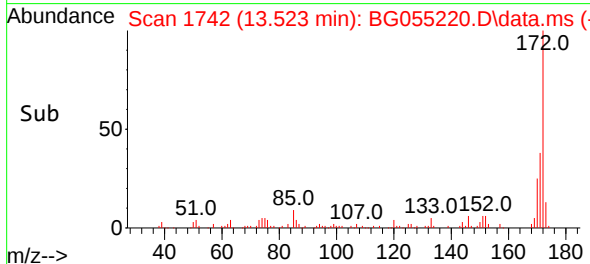
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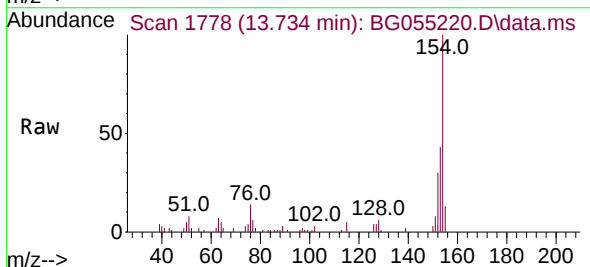
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Ion Ratio Lower Upper
172 100
171 37.6 30.3 45.5
170 24.7 20.6 30.8

Manual Integrations
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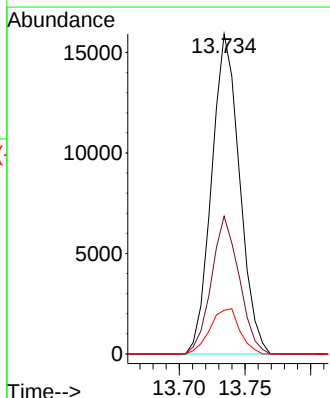
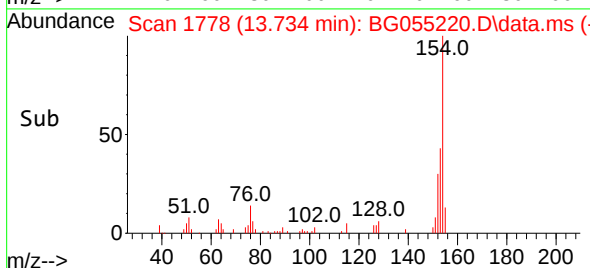
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022

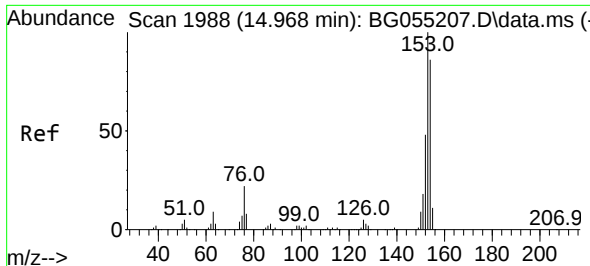


#46
1,1'-Biphenyl
Concen: 2.062 ng
RT: 13.734 min Scan# 1778
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43



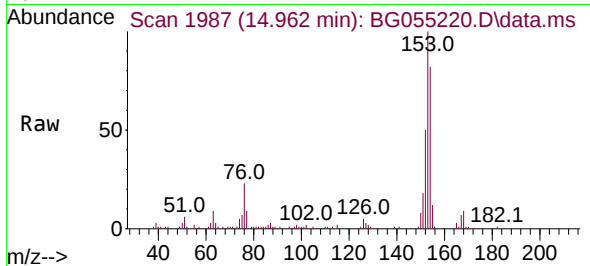
Tgt Ion:154 Resp: 23606
Ion Ratio Lower Upper
154 100
153 43.0 22.1 62.1
76 13.6 0.0 35.8





#52
Acenaphthene
Concen: 3.832 ng
RT: 14.962 min Scan# 1988
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

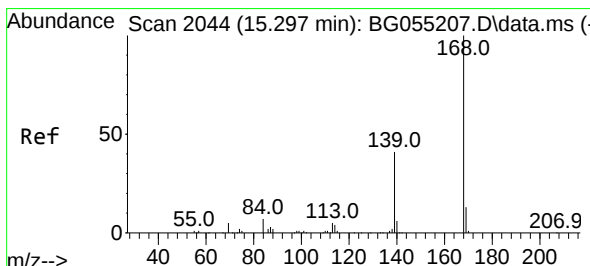
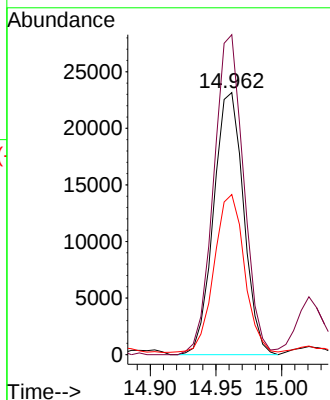
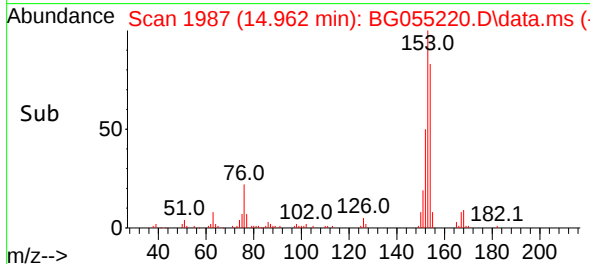
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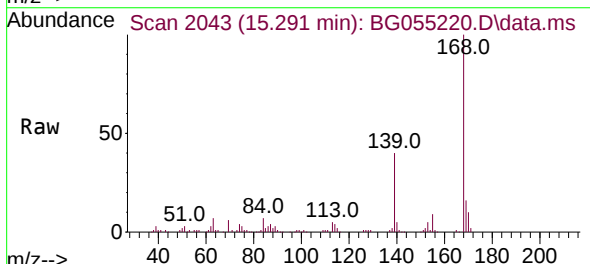
Tgt Ion:154 Resp: 36788
Ion Ratio Lower Upper
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153 122.1 93.3 139.9
152 61.1 45.1 67.7

Manual Integrations
APPROVED

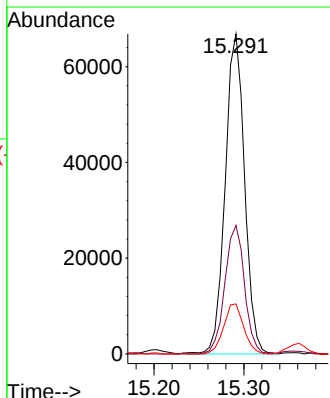
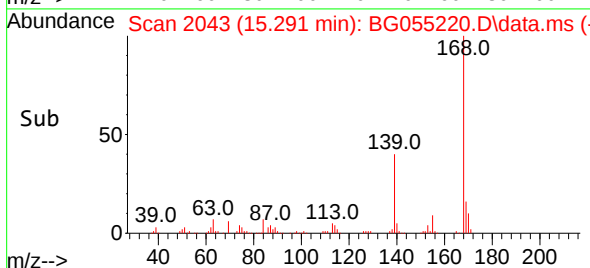
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022

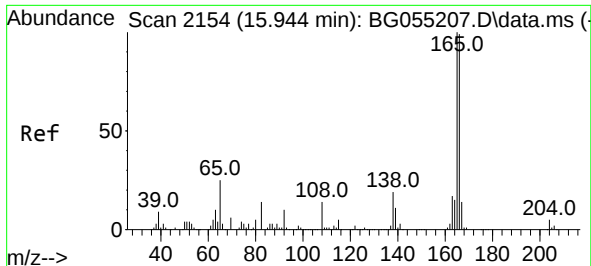


#55
Dibenzofuran
Concen: 7.277 ng
RT: 15.291 min Scan# 2043
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43



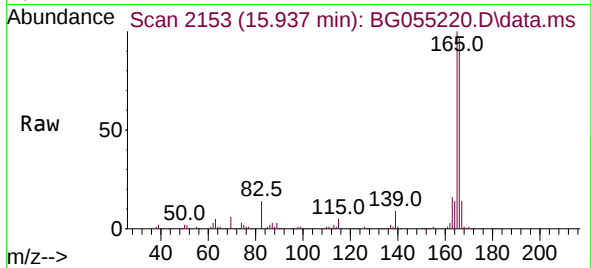
Tgt Ion:168 Resp: 100634
Ion Ratio Lower Upper
168 100
139 40.1 32.6 48.8
169 15.6 10.7 16.1





#58
Fluorene
Concen: 14.237 ng
RT: 15.937 min Scan# 2153
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

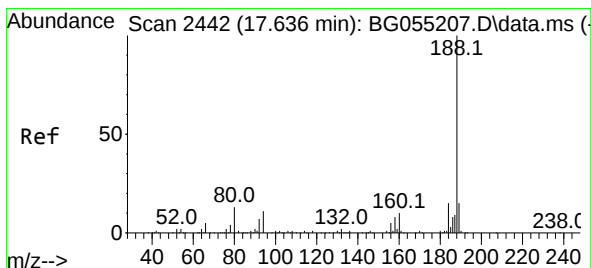
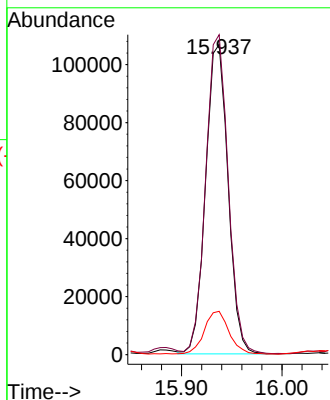
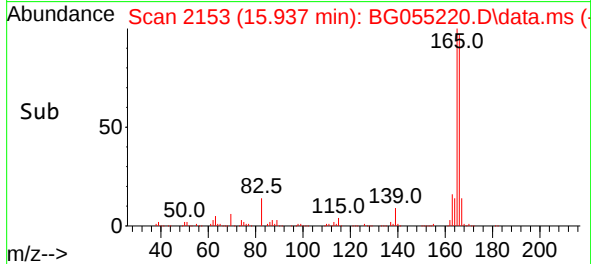
Instrument :
BNA_G
ClientSampleId :
BU-02-101722DL



Tgt Ion:166 Resp: 165792
Ion Ratio Lower Upper
166 100
165 103.2 81.0 121.6
167 14.0 11.0 16.4

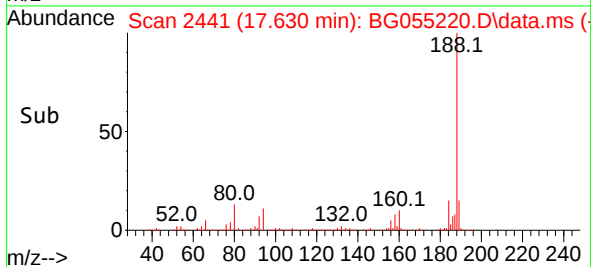
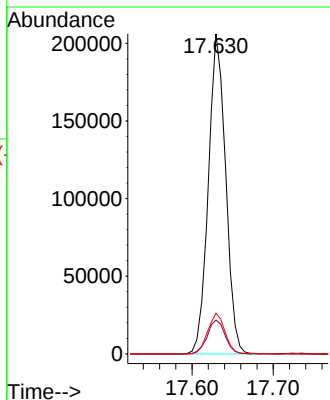
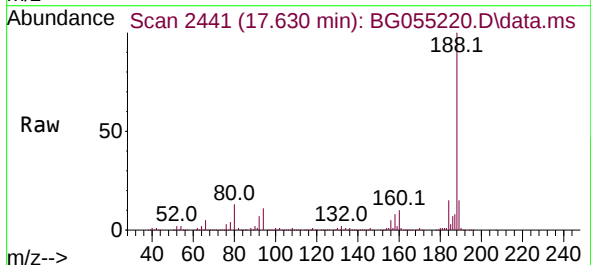
Manual Integrations
APPROVED

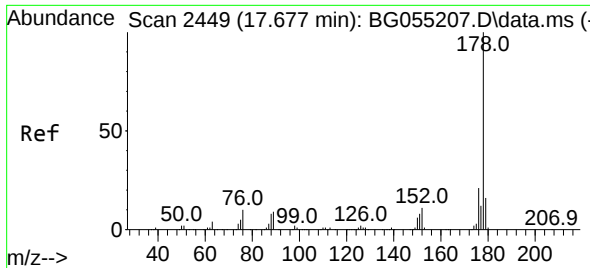
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.630 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

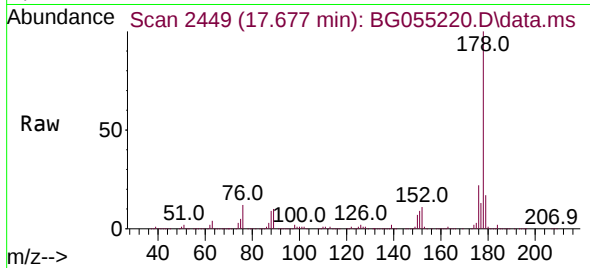
Tgt Ion:188 Resp: 305392
Ion Ratio Lower Upper
188 100
94 10.5 8.6 12.8
80 12.7 10.4 15.6





#71
Phenanthrene
Concen: 54.411 ng
RT: 17.677 min Scan# 2449
Delta R.T. -0.000 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

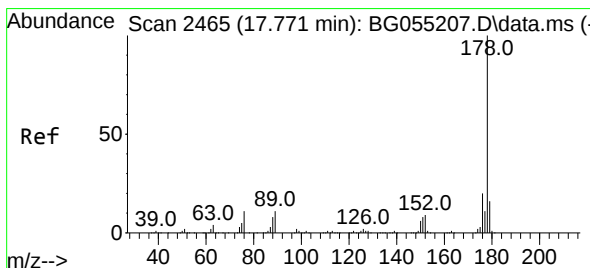
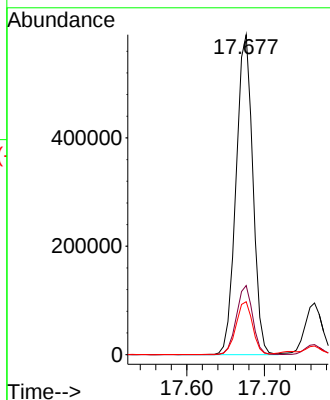
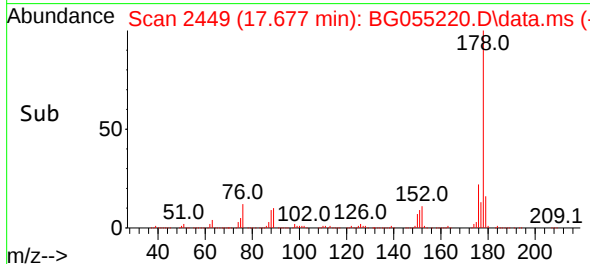
Instrument :
BNA_G
ClientSampleId :
BU-02-101722DL



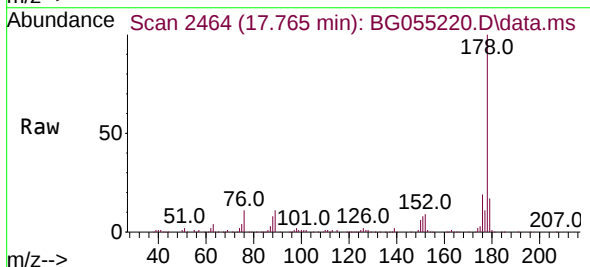
Tgt Ion:178 Resp: 886700
Ion Ratio Lower Upper
178 100
176 21.6 16.4 24.6
179 16.5 12.8 19.2

Manual Integrations
APPROVED

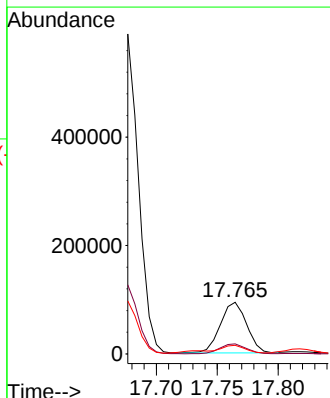
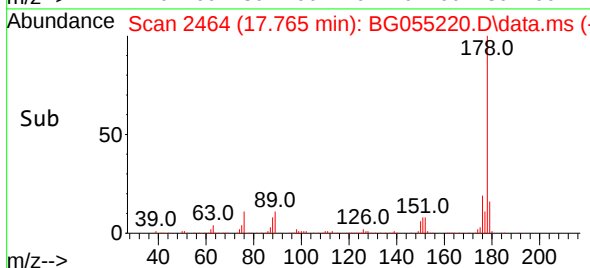
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022

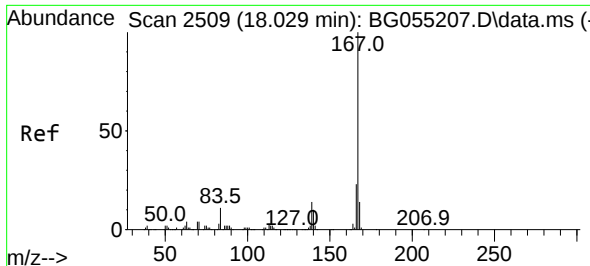


#72
Anthracene
Concen: 8.860 ng
RT: 17.765 min Scan# 2464
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43



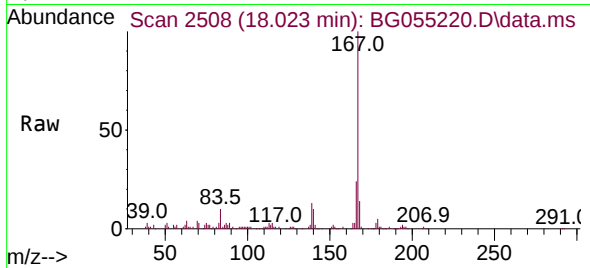
Tgt Ion:178 Resp: 141090
Ion Ratio Lower Upper
178 100
176 19.3 16.2 24.2
179 16.5 13.0 19.4





#73
 Carbazole
 Concen: 5.079 ng
 RT: 18.023 min Scan# 2509
 Delta R.T. -0.006 min
 Lab File: BG055220.D
 Acq: 20 Oct 2022 13:43

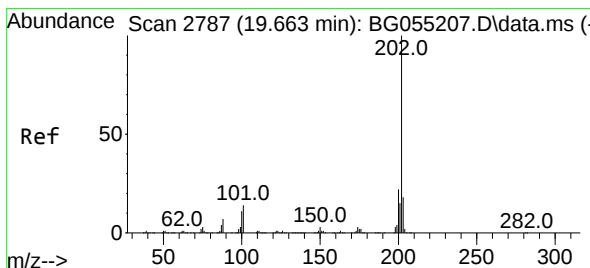
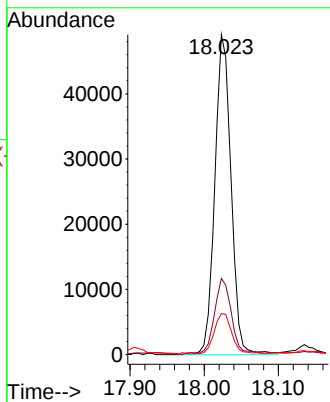
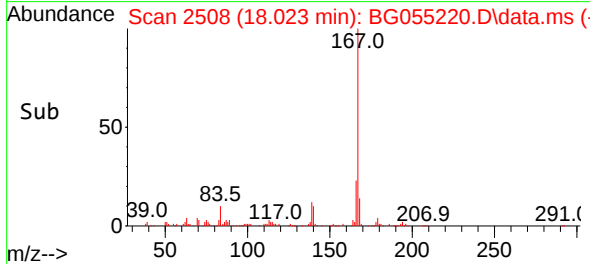
Instrument :
 BNA_G
 ClientSampleId :
 BU-02-101722DL



Tgt Ion:167 Resp: 74482
 Ion Ratio Lower Upper
 167 100
 166 23.8 18.5 27.7
 139 12.8 11.3 16.9

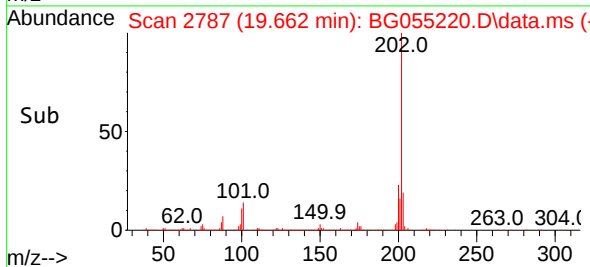
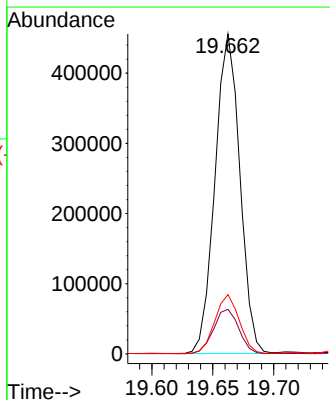
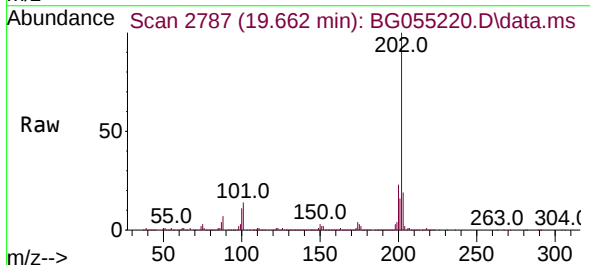
Manual Integrations
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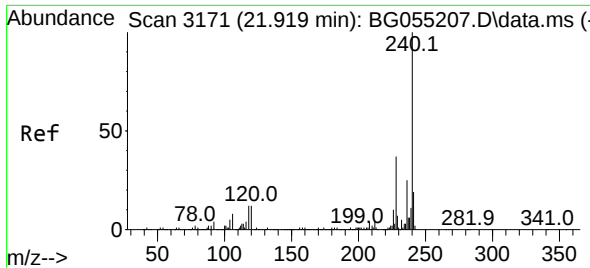
Reviewed By :Christian Giraldo 10/21/2022
 Supervised By :Jagrut Upadhyay 10/21/2022



#75
 Fluoranthene
 Concen: 35.836 ng
 RT: 19.662 min Scan# 2787
 Delta R.T. -0.000 min
 Lab File: BG055220.D
 Acq: 20 Oct 2022 13:43

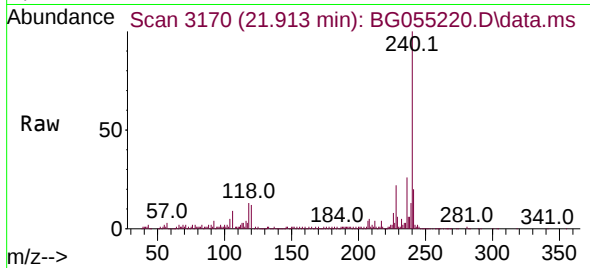
Tgt Ion:202 Resp: 646894
 Ion Ratio Lower Upper
 202 100
 101 13.9 0.0 34.2
 203 18.5 0.0 38.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.913 min Scan# 3171
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

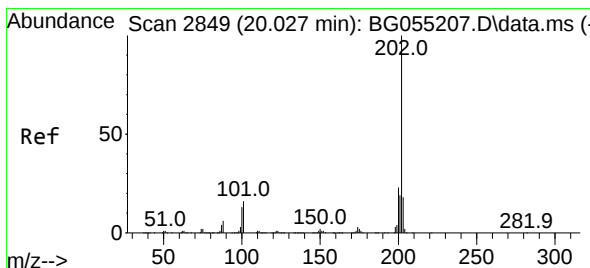
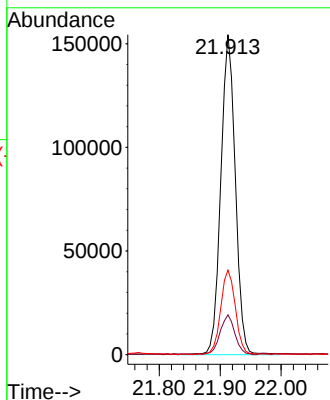
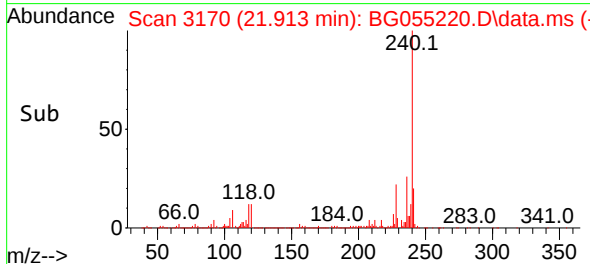
Instrument :
BNA_G
ClientSampleId :
BU-02-101722DL



Tgt Ion:240 Resp: 255480
Ion Ratio Lower Upper
240 100
120 12.4 9.2 13.8
236 26.4 20.4 30.6

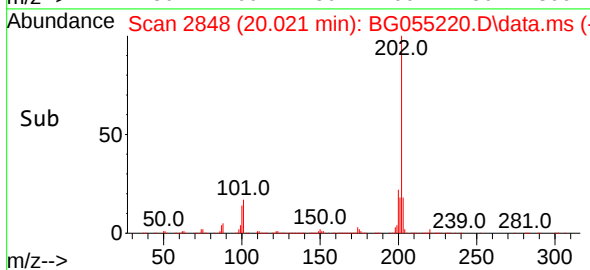
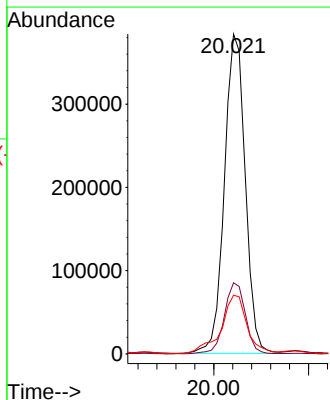
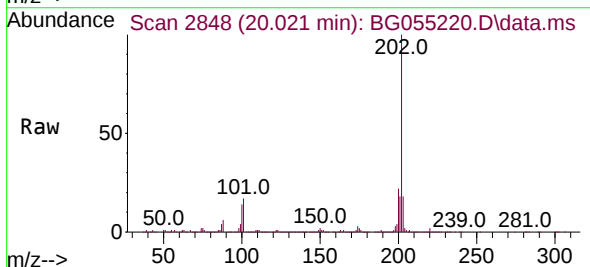
Manual Integrations
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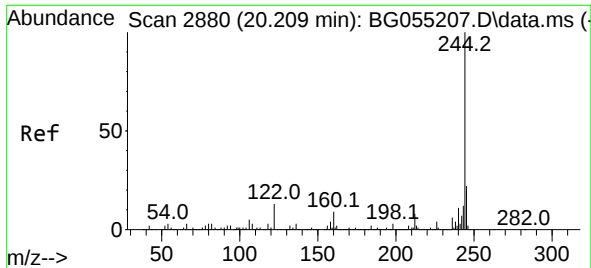
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022



#78
Pyrene
Concen: 30.441 ng
RT: 20.021 min Scan# 2848
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

Tgt Ion:202 Resp: 586004
Ion Ratio Lower Upper
202 100
200 22.2 18.2 27.2
203 18.3 14.6 22.0





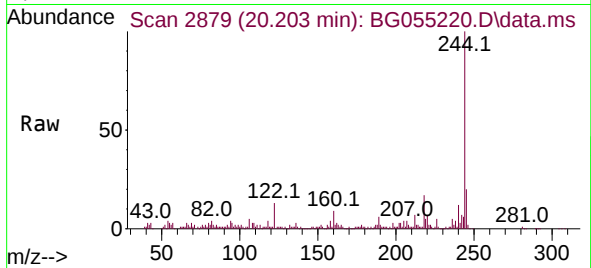
#79
 Terphenyl-d14
 Concen: 6.955 ng
 RT: 20.203 min Scan# 2880
 Delta R.T. -0.006 min
 Lab File: BG055220.D
 Acq: 20 Oct 2022 13:43

Instrument :

BNA_G

ClientSampleId :

BU-02-101722DL

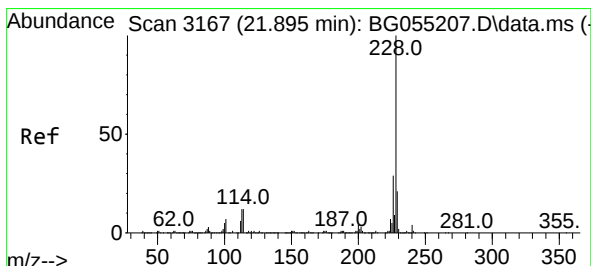
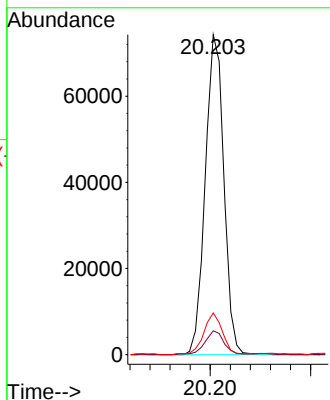
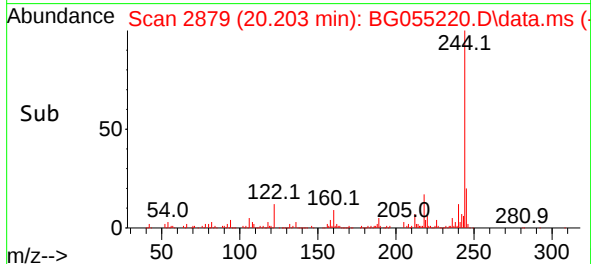


Tgt Ion:244 Resp: 95361
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.3 9.5
 122 13.0 10.0 15.0

Manual Integrations

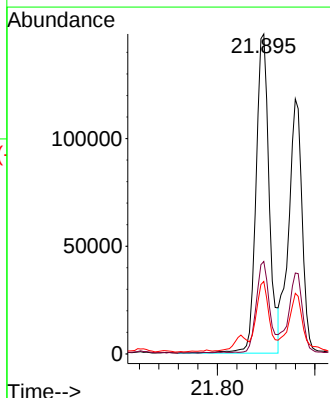
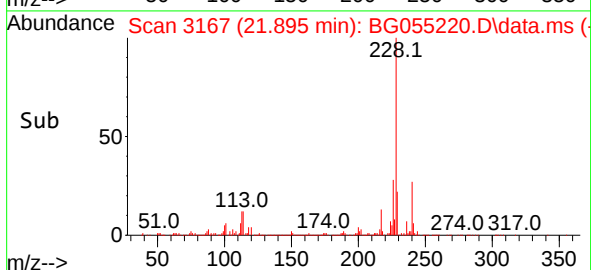
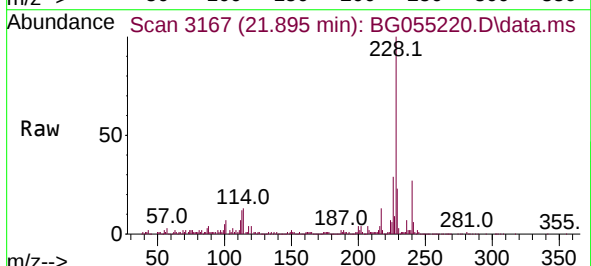
APPROVED

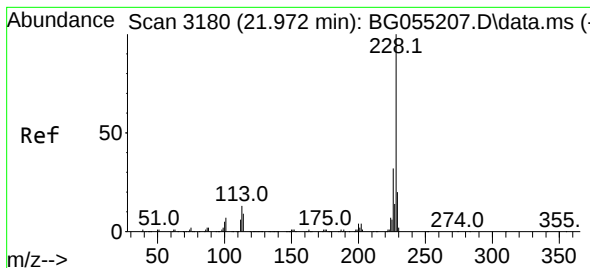
Reviewed By :Christian Giraldo 10/21/2022
 Supervised By :Jagrut Upadhyay 10/21/2022



#81
 Benzo(a)anthracene
 Concen: 16.738 ng
 RT: 21.895 min Scan# 3167
 Delta R.T. -0.000 min
 Lab File: BG055220.D
 Acq: 20 Oct 2022 13:43

Tgt Ion:228 Resp: 277369
 Ion Ratio Lower Upper
 228 100
 226 28.9 23.1 34.7
 229 22.6 16.5 24.7





#83

Chrysene

Concen: 14.685 ng m

RT: 21.960 min Scan# 31

Delta R.T. -0.012 min

Lab File: BG055220.D

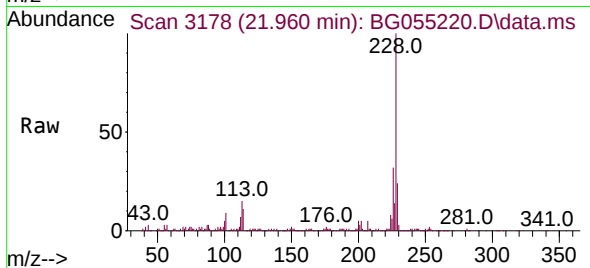
Acq: 20 Oct 2022 13:43

Instrument :

BNA_G

ClientSampleId :

BU-02-101722DL



Tgt Ion:228 Resp: 226633

Ion Ratio Lower Upper

228 100

226 31.7 25.4 38.2

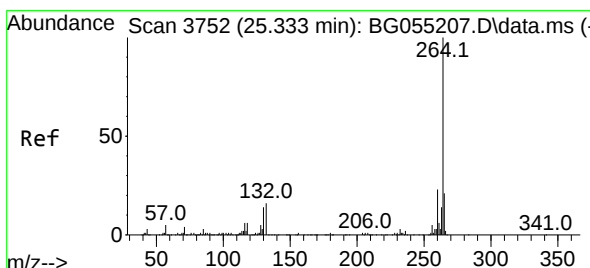
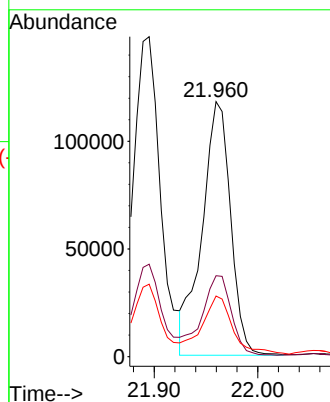
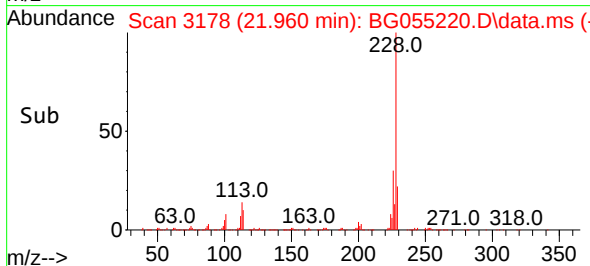
229 23.8 15.8 23.8

Manual Integrations

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Reviewed By :Christian Giraldo 10/21/2022

Supervised By :Jagrut Upadhyay 10/21/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.326 min Scan# 3751

Delta R.T. -0.006 min

Lab File: BG055220.D

Acq: 20 Oct 2022 13:43

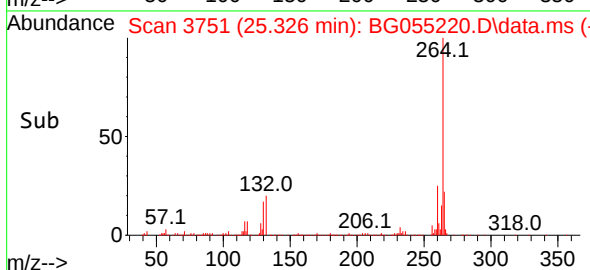
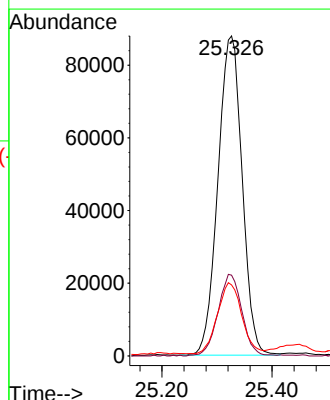
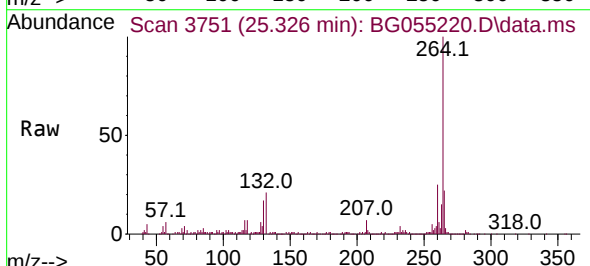
Tgt Ion:264 Resp: 268398

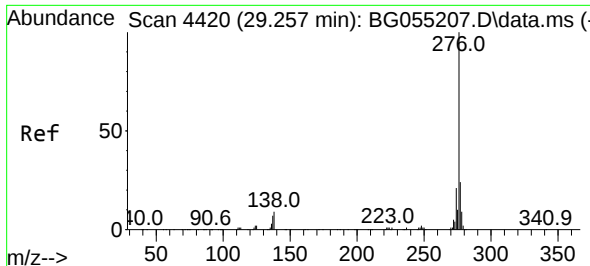
Ion Ratio Lower Upper

264 100

260 25.2 18.6 27.8

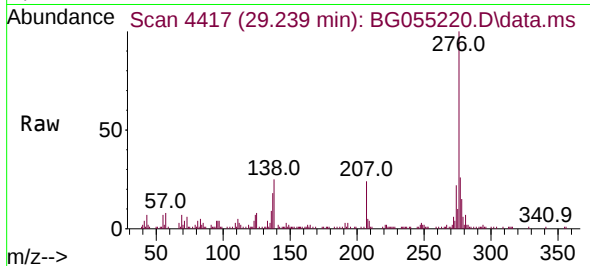
265 22.2 17.1 25.7





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.961 ng
RT: 29.239 min Scan# 4417
Delta R.T. -0.018 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

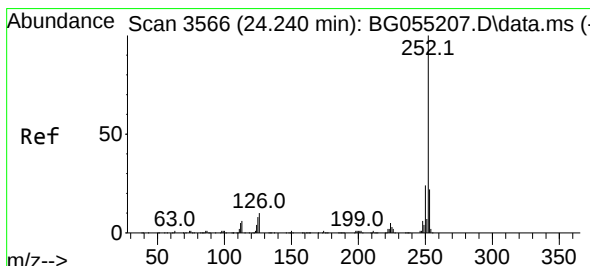
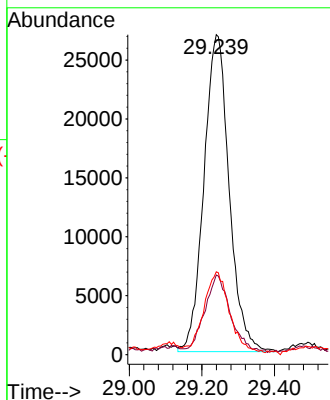
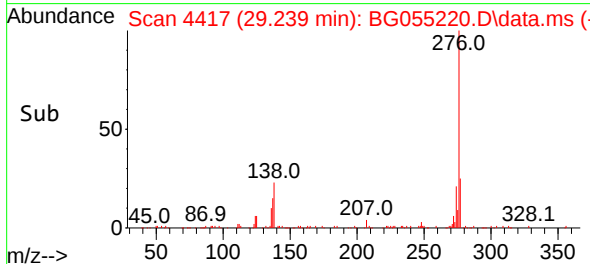
Instrument :
BNA_G
ClientSampleId :
BU-02-101722DL



Tgt Ion:276 Resp: 12993
Ion Ratio Lower Upper
276 100
138 25.1 9.5 14.3
277 26.0 20.5 30.7

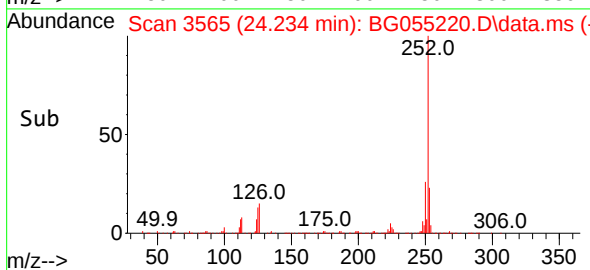
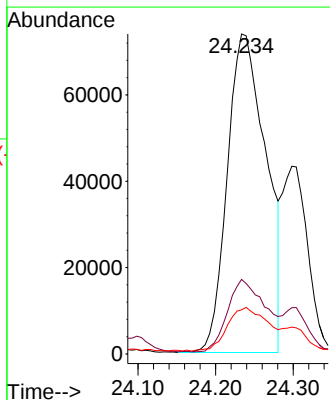
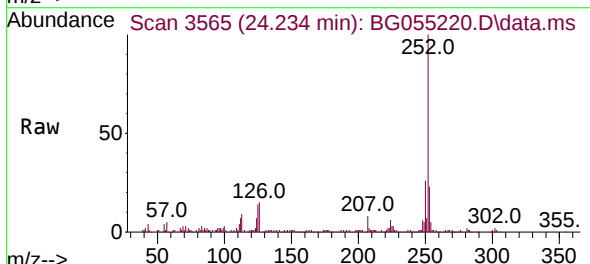
Manual Integrations
APPROVED

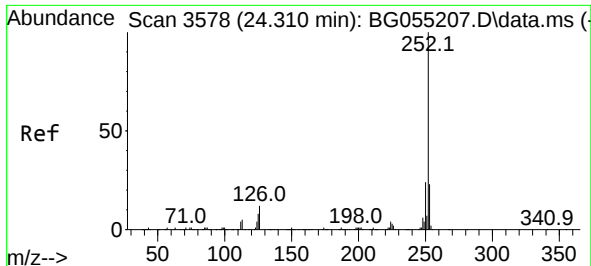
Reviewed By :Christian Giraldo 10/21/2022
Supervised By :Jagrut Upadhyay 10/21/2022



#88
Benzo(b)fluoranthene
Concen: 16.085 ng
RT: 24.234 min Scan# 3565
Delta R.T. -0.006 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

Tgt Ion:252 Resp: 256368
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.6
125 13.8 6.2 9.2#





#89

Benzo(k)fluoranthene

Concen: 6.013 ng m

RT: 24.298 min Scan# 3578

Delta R.T. -0.012 min

Lab File: BG055220.D

Acq: 20 Oct 2022 13:43

Instrument :

BNA_G

ClientSampleId :

BU-02-101722DL

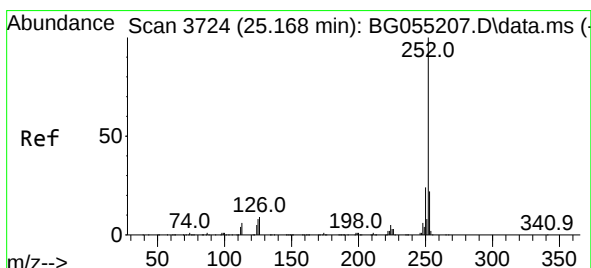
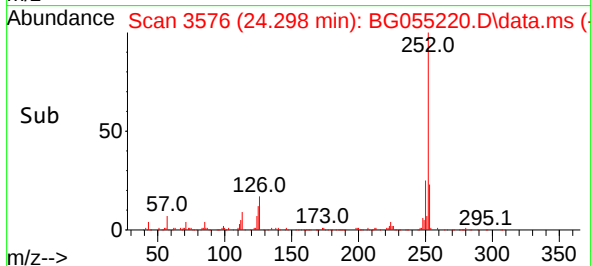
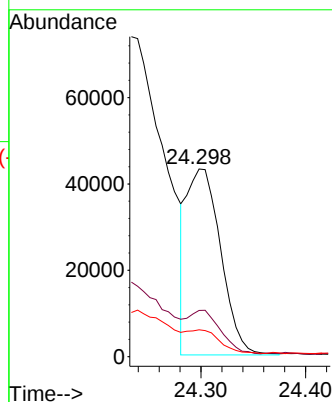
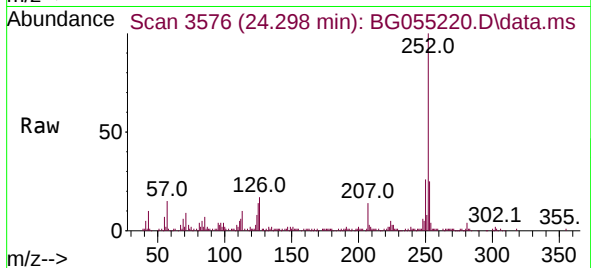
Tgt Ion:252 Resp: 97065
 Ion Ratio Lower Upper
 252 100
 253 24.7 18.0 27.0
 125 14.3 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/21/2022

Supervised By :Jagrut Upadhyay 10/21/2022



#90

Benzo(a)pyrene

Concen: 16.052 ng

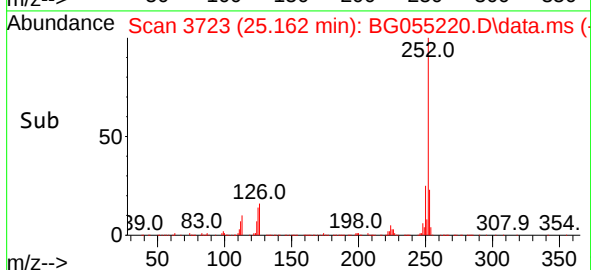
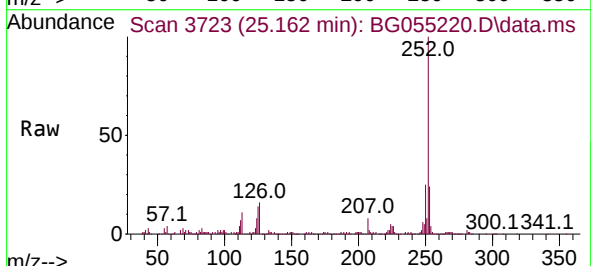
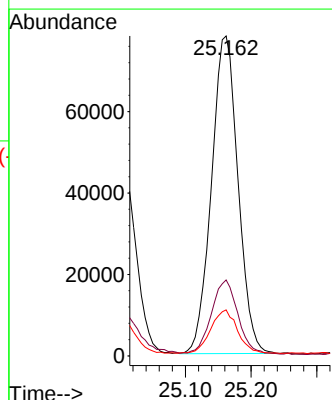
RT: 25.162 min Scan# 3723

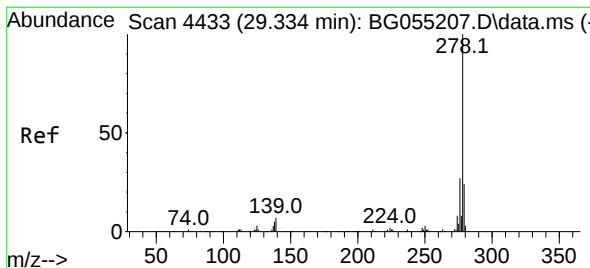
Delta R.T. -0.006 min

Lab File: BG055220.D

Acq: 20 Oct 2022 13:43

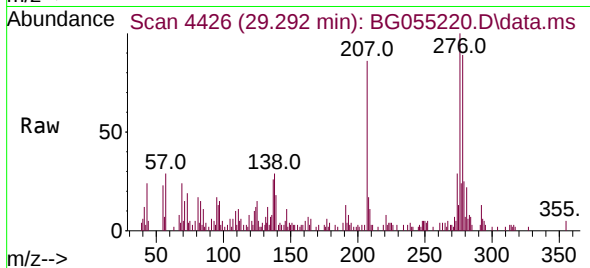
Tgt Ion:252 Resp: 219595
 Ion Ratio Lower Upper
 252 100
 253 23.7 17.4 26.2
 125 14.4 6.2 9.2





#91
Dibenzo(a,h)anthracene
Concen: 2.481 ng
RT: 29.292 min Scan# 4433
Delta R.T. -0.041 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

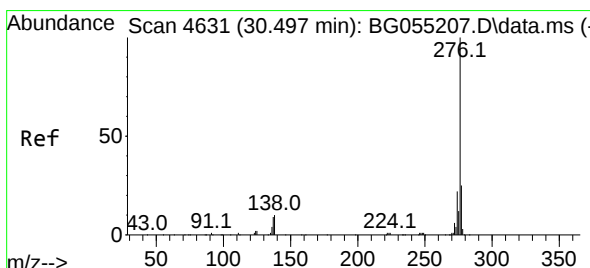
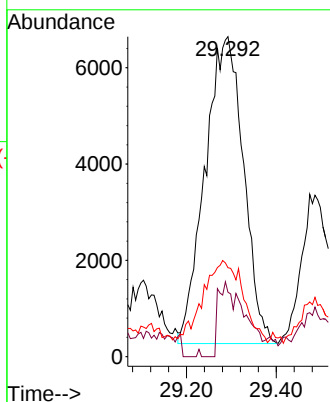
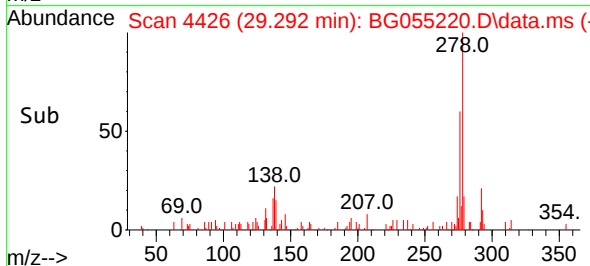
Instrument :
BNA_G
ClientSampleId :
BU-02-101722DL



Tgt Ion: 278 Resp: 37948
Ion Ratio Lower Upper
278 100
139 20.2 5.6 8.4
279 27.8 19.5 29.3

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 10/21/2022
Supervised By : Jagrut Upadhyay 10/21/2022



#92
Benzo(g,h,i)perylene
Concen: 8.840 ng
RT: 30.467 min Scan# 4626
Delta R.T. -0.030 min
Lab File: BG055220.D
Acq: 20 Oct 2022 13:43

Tgt Ion: 276 Resp: 130962
Ion Ratio Lower Upper
276 100
277 22.6 19.7 29.5
138 26.0 8.0 12.0

