

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090222\
 Data File : BG054843.D
 Acq On : 2 Sep 2022 16:53
 Operator : CG/JU
 Sample : N4469-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TR-06-083122

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 09/06/2022
 Supervised By : Jagrut Upadhyay 09/06/2022

Quant Time: Sep 03 00:28:32 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 25 17:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.148	152	42430	20.000	ng	0.00
21) Naphthalene-d8	10.974	136	179522	20.000	ng	0.00
39) Acenaphthene-d10	14.776	164	117412	20.000	ng	-0.01
64) Phenanthrene-d10	17.526	188	242692	20.000	ng	0.00
76) Chrysene-d12	21.821	240	223734	20.000	ng	0.00
86) Perylene-d12	25.199	264	241107	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	256839	105.409	ng	0.00
7) Phenol-d6	7.302	99	353193	105.992	ng	0.00
23) Nitrobenzene-d5	9.323	82	212175	62.045	ng	0.00
42) 2,4,6-Tribromophenol	16.268	330	142661	97.238	ng	0.00
45) 2-Fluorobiphenyl	13.407	172	515513	65.992	ng	0.00
79) Terphenyl-d14	20.128	244	712342	63.085	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.021	128	46631	4.841	ng	99
37) 2-Methylnaphthalene	12.620	142	35280	5.226	ng	97
38) 1-Methylnaphthalene	12.837	142	26461	4.029	ng	99
52) Acenaphthene	14.841	154	37434	5.333	ng	100
55) Dibenzofuran	15.175	168	46538	4.512	ng	96
58) Fluorene	15.822	166	67412	7.759	ng	100
71) Phenanthrene	17.573	178	733317	56.722	ng	100
72) Anthracene	17.661	178	173917	13.837	ng	98
73) Carbazole	17.931	167	39153	3.381	ng	98
75) Fluoranthene	19.582	202	1178033	74.903	ng	97
78) Pyrene	19.940	202	1018715	65.299	ng	98
81) Benzo(a)anthracene	21.803	228	590109	38.900	ng	99
83) Chrysene	21.873	228	503055	34.683	ng	98
87) Indeno(1,2,3-cd)pyrene	29.071	276	309542	16.911	ng	97
88) Benzo(b)fluoranthene	24.124	252	678594	44.866	ng	100
89) Benzo(k)fluoranthene	24.183	252	244924m	16.090	ng	
90) Benzo(a)pyrene	25.034	252	487510	37.727	ng	98
91) Dibenzo(a,h)anthracene	29.130	278	83781	5.618	ng	97
92) Benzo(g,h,i)perylene	30.305	276	286495	19.017	ng	96

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

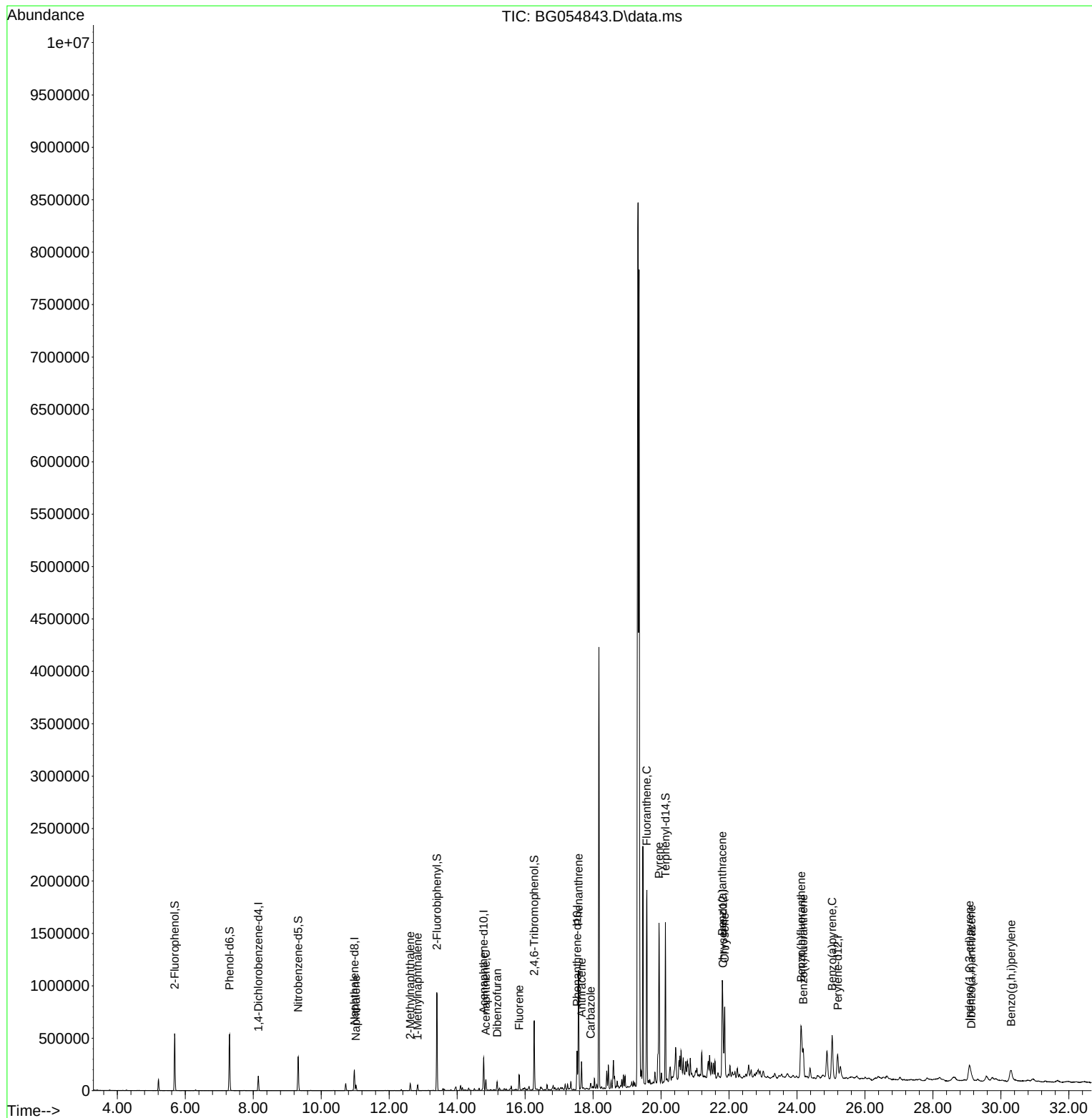
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090222\
Data File : BG054843.D
Acq On : 2 Sep 2022 16:53
Operator : CG/JU
Sample : N4469-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

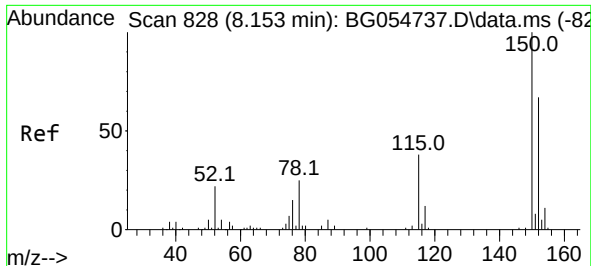
Instrument :
BNA_G
ClientSampleId :
TR-06-083122

Quant Time: Sep 03 00:28:32 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 25 17:50:55 2022
Response via : Initial Calibration

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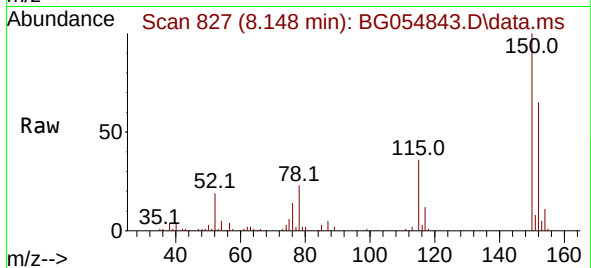
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.148 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

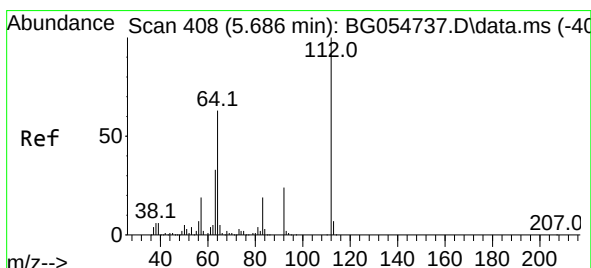
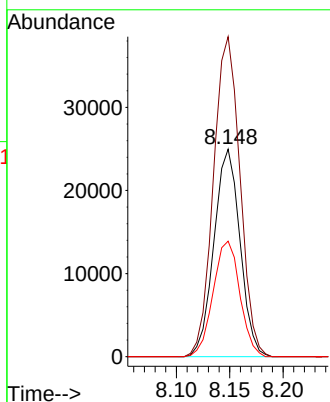
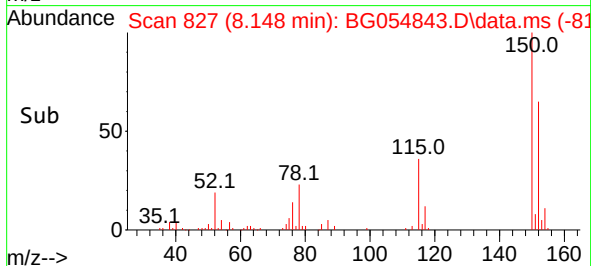
Instrument :
BNA_G
ClientSampleId :
TR-06-083122



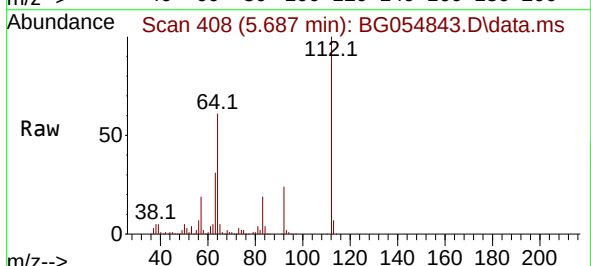
Tgt Ion:152 Resp: 42430
Ion Ratio Lower Upper
152 100
150 154.2 125.2 187.8
115 55.7 47.9 71.9

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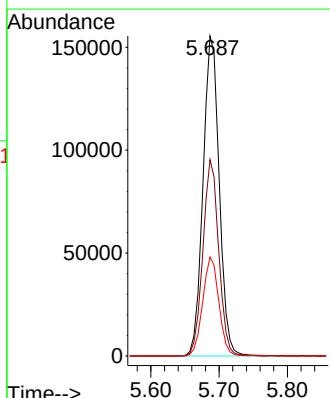
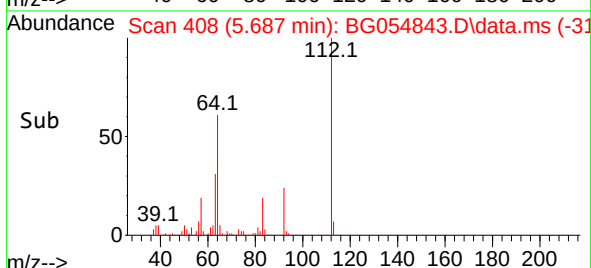
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022

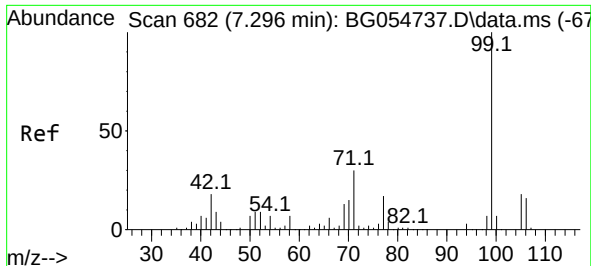


#5
2-Fluorophenol
Concen: 105.409 ng
RT: 5.687 min Scan# 408
Delta R.T. 0.001 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53



Tgt Ion:112 Resp: 256839
Ion Ratio Lower Upper
112 100
64 61.3 49.3 73.9
63 30.9 26.3 39.5





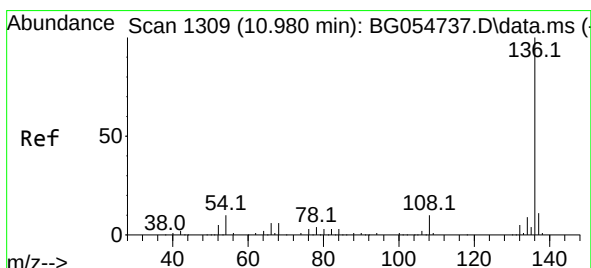
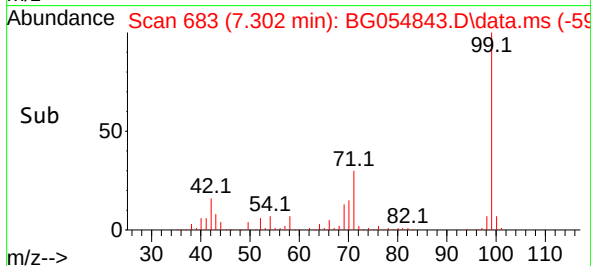
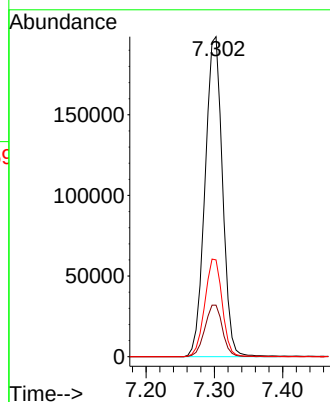
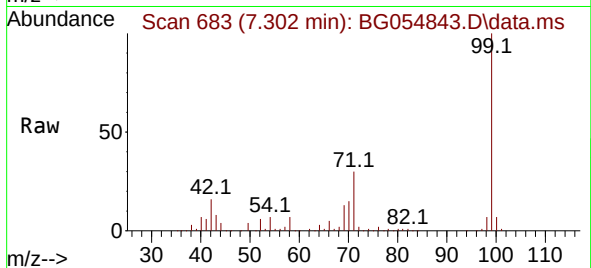
#7
Phenol-d6
Concen: 105.992 ng
RT: 7.302 min Scan# 61
Delta R.T. 0.007 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Instrument :
BNA_G
ClientSampleId :
TR-06-083122

Tgt Ion: 99 Resp: 35319
Ion Ratio Lower Upper
99 100
42 16.1 14.6 22.0
71 30.3 24.6 37.0

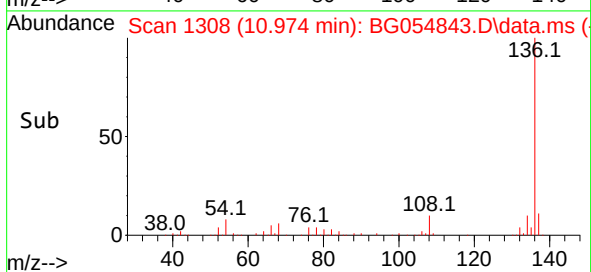
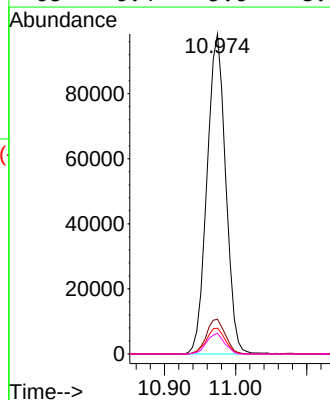
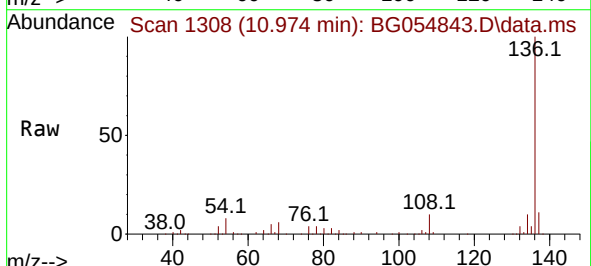
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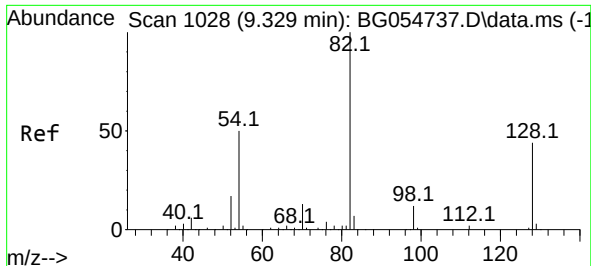
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.974 min Scan# 1308
Delta R.T. -0.006 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Tgt Ion:136 Resp: 179522
Ion Ratio Lower Upper
136 100
137 10.9 9.2 13.8
54 8.1 7.7 11.5
68 6.4 5.6 8.4





#23

Nitrobenzene-d5

Concen: 62.045 ng

RT: 9.323 min Scan# 1028

Delta R.T. -0.005 min

Lab File: BG054843.D

Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

TR-06-083122

Tgt Ion: 82 Resp: 21217

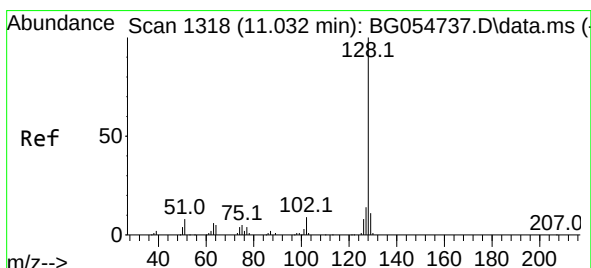
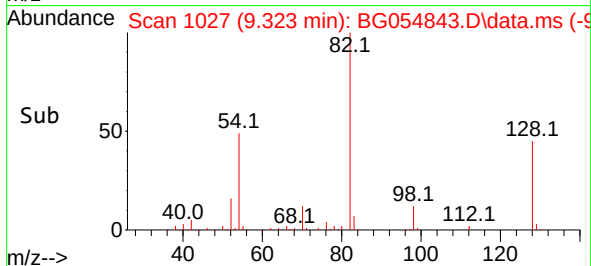
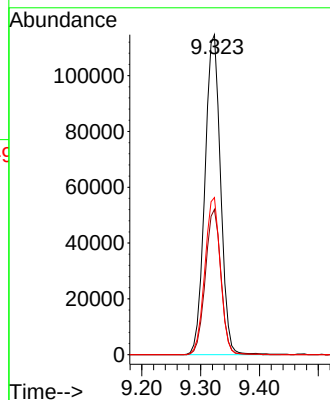
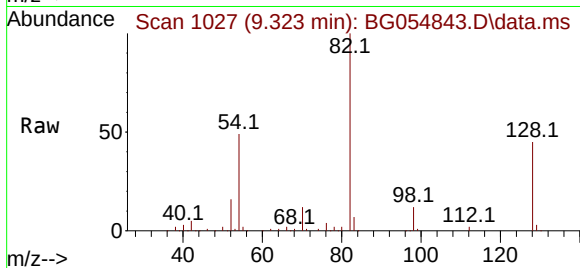
Ion	Ratio	Lower	Upper
82	100		
128	45.4	32.2	48.2
54	49.1	41.4	62.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/06/2022



#31

Naphthalene

Concen: 4.841 ng

RT: 11.021 min Scan# 1316

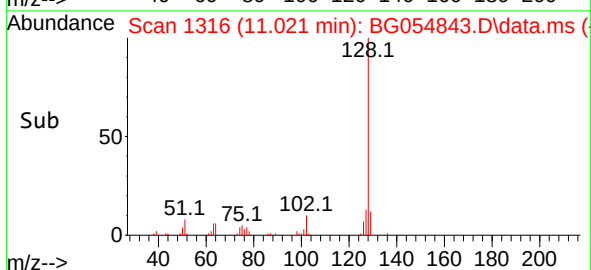
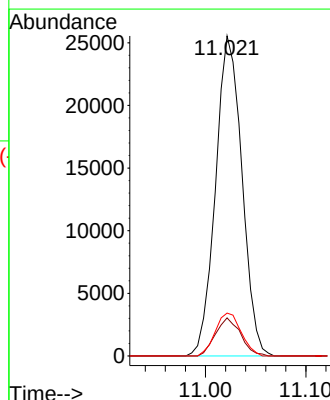
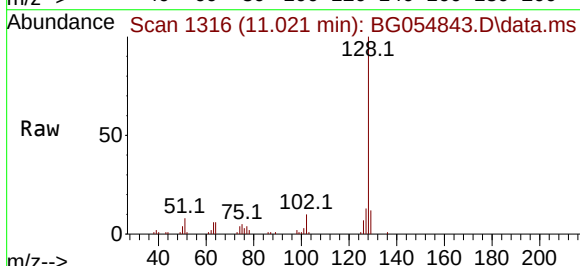
Delta R.T. -0.011 min

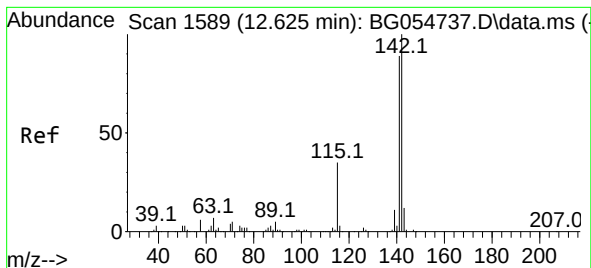
Lab File: BG054843.D

Acq: 2 Sep 2022 16:53

Tgt Ion:128 Resp: 46631

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.0	13.4
127	13.4	11.1	16.7





#37
2-Methylnaphthalene
Concen: 5.226 ng
RT: 12.620 min Scan# 1589
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

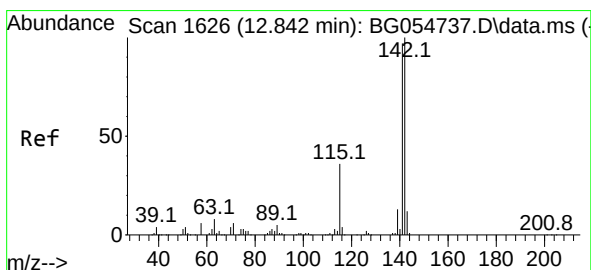
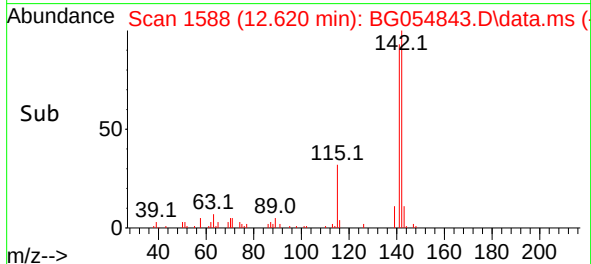
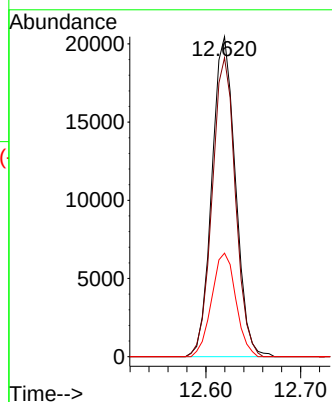
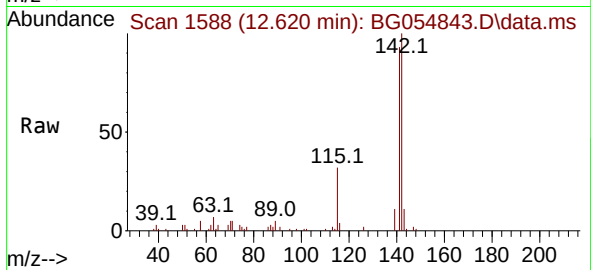
TR-06-083122

Tgt Ion:142 Resp: 35280
Ion Ratio Lower Upper
142 100
141 93.4 73.0 109.4
115 32.4 27.3 40.9

Manual Integrations

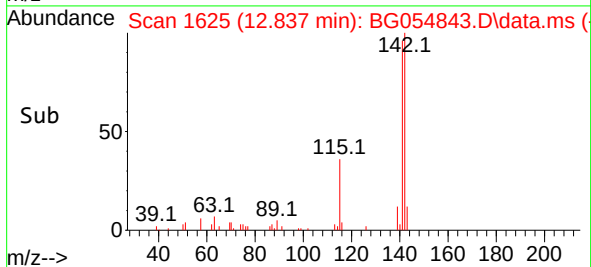
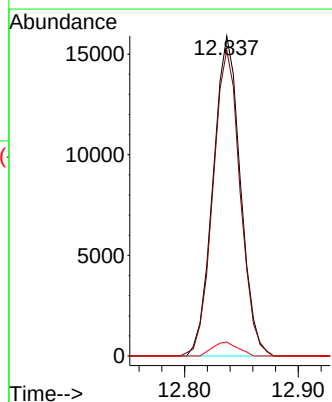
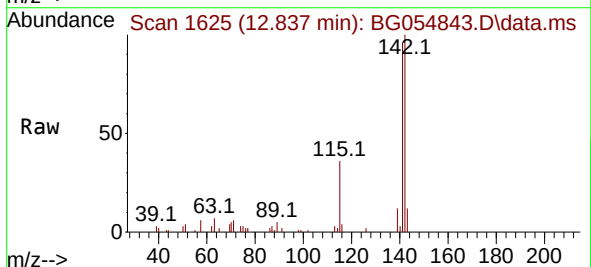
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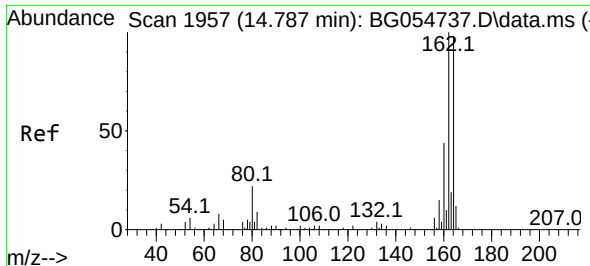
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022



#38
1-Methylnaphthalene
Concen: 4.029 ng
RT: 12.837 min Scan# 1625
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Tgt Ion:142 Resp: 26461
Ion Ratio Lower Upper
142 100
141 95.5 77.4 116.0
116 4.4 3.0 4.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.776 min Scan# 1955
Delta R.T. -0.011 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

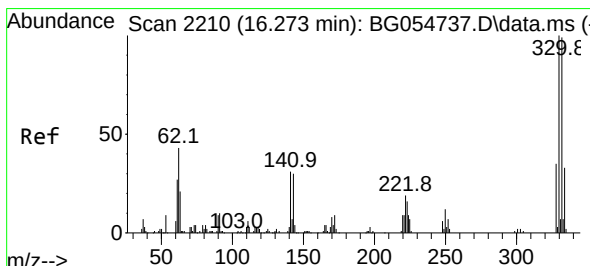
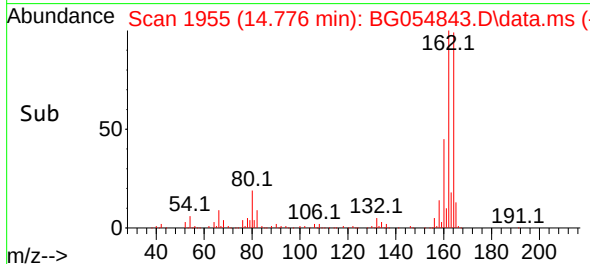
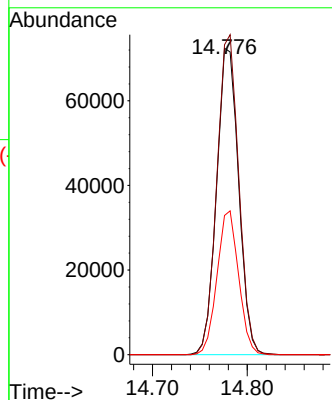
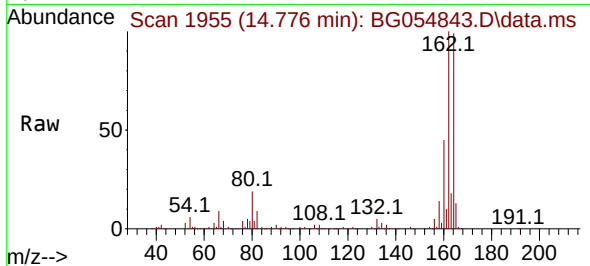
ClientSampleId :

TR-06-083122

Tgt Ion:164 Resp: 11741
Ion Ratio Lower Upper
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162 101.1 83.0 124.4
160 45.4 38.0 57.0

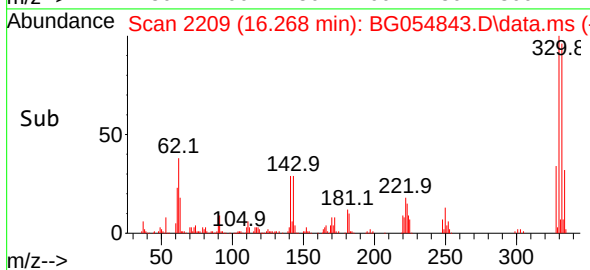
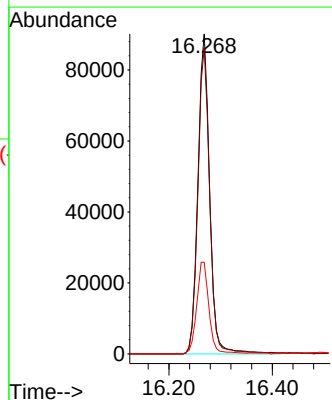
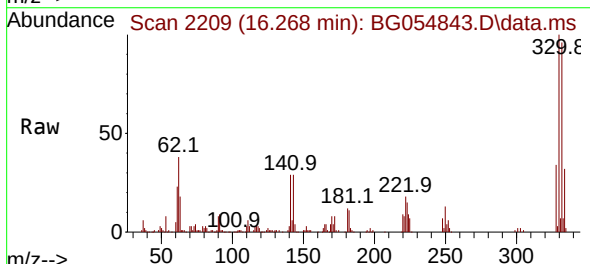
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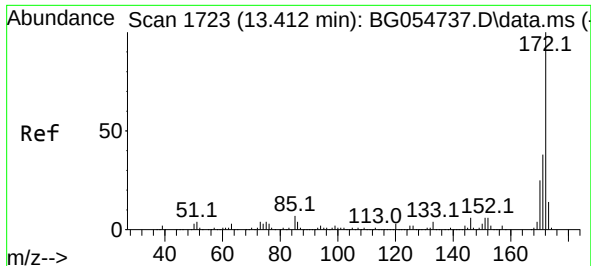
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022



#42
2,4,6-Tribromophenol
Concen: 97.238 ng
RT: 16.268 min Scan# 2209
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Tgt Ion:330 Resp: 142661
Ion Ratio Lower Upper
330 100
332 95.6 79.8 119.6
141 29.9 26.8 40.2





#45
2-Fluorobiphenyl
Concen: 65.992 ng
RT: 13.407 min Scan# 1722
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

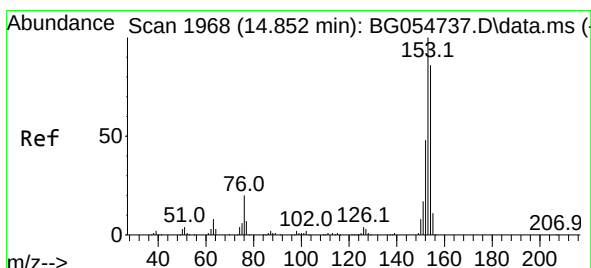
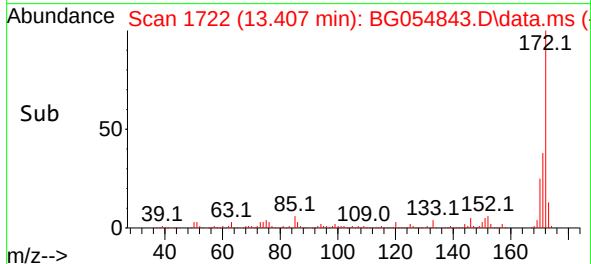
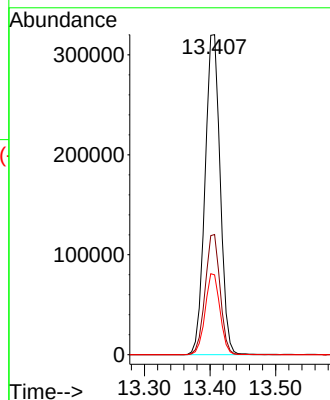
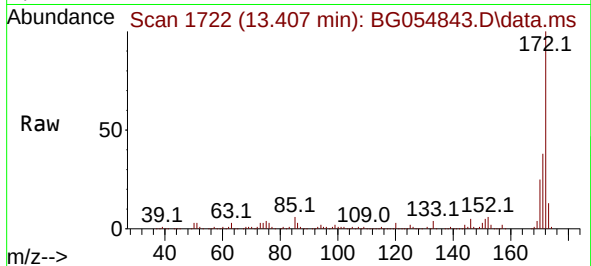
TR-06-083122

Tgt Ion:172 Resp: 51551
Ion Ratio Lower Upper
172 100
171 37.6 31.2 46.8
170 25.0 20.6 30.8

Manual Integrations

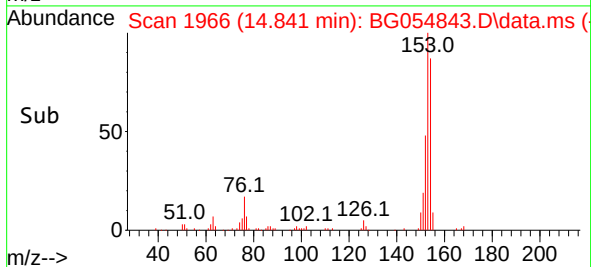
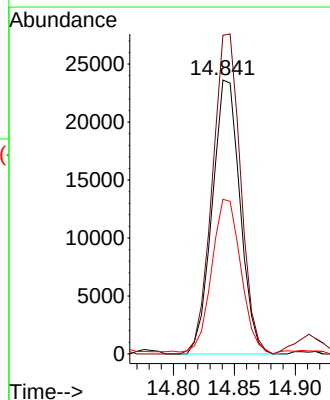
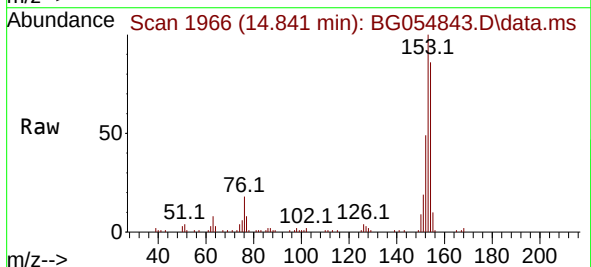
APPROVED

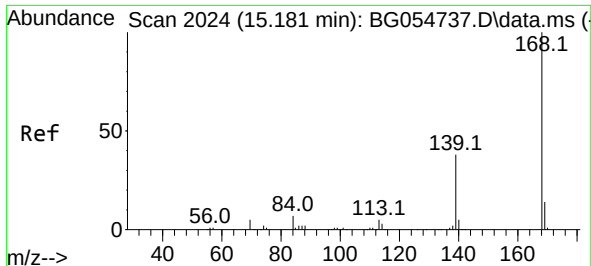
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022



#52
Acenaphthene
Concen: 5.333 ng
RT: 14.841 min Scan# 1966
Delta R.T. -0.011 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Tgt Ion:154 Resp: 37434
Ion Ratio Lower Upper
154 100
153 116.3 92.8 139.2
152 56.5 45.4 68.2





#55
Dibenzofuran
Concen: 4.512 ng
RT: 15.175 min Scan# 2023
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

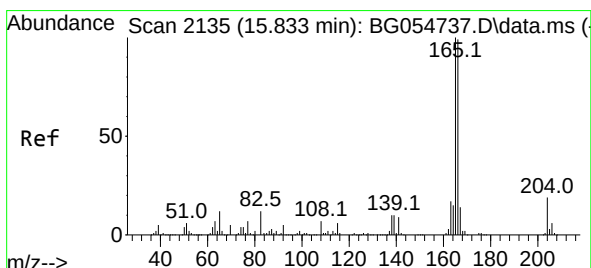
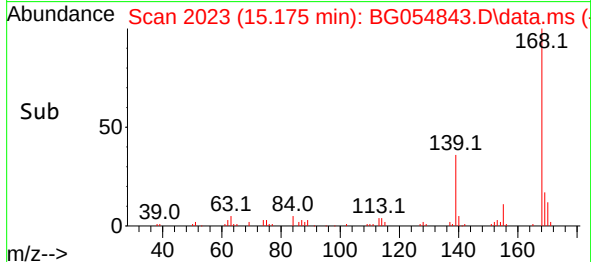
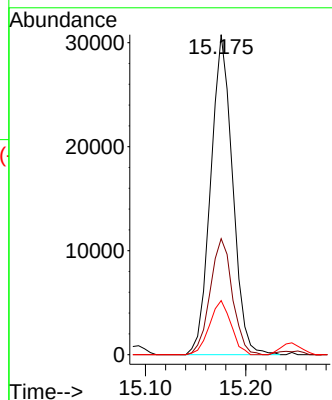
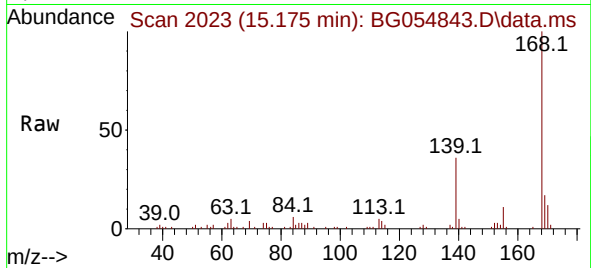
TR-06-083122

Tgt Ion:168 Resp: 46538
Ion Ratio Lower Upper
168 100
139 36.2 30.2 45.2
169 16.9 11.3 16.9

Manual Integrations

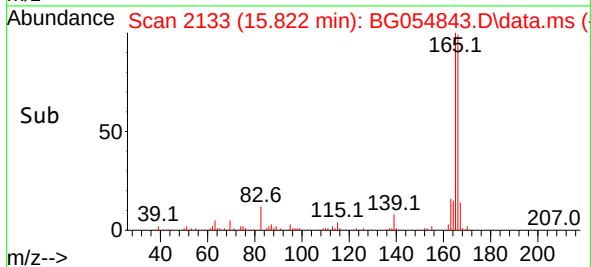
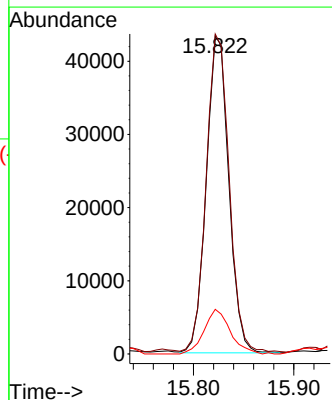
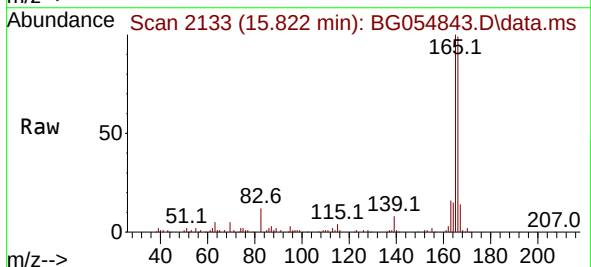
APPROVED

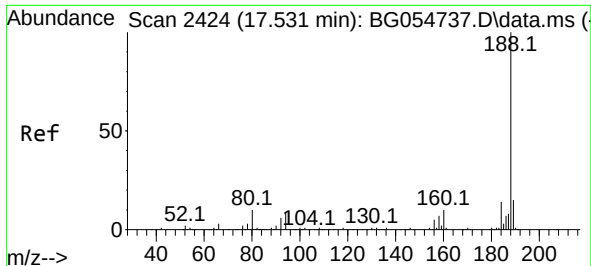
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022



#58
Fluorene
Concen: 7.759 ng
RT: 15.822 min Scan# 2133
Delta R.T. -0.011 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Tgt Ion:166 Resp: 67412
Ion Ratio Lower Upper
166 100
165 100.7 80.8 121.2
167 14.0 11.4 17.0





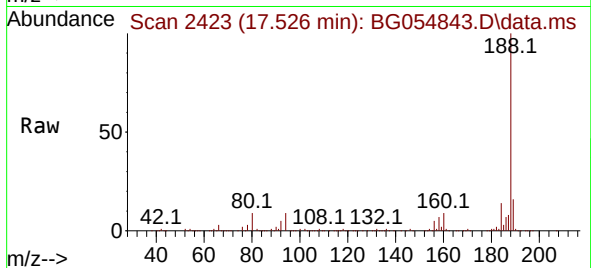
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.526 min Scan# 2426
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

TR-06-083122

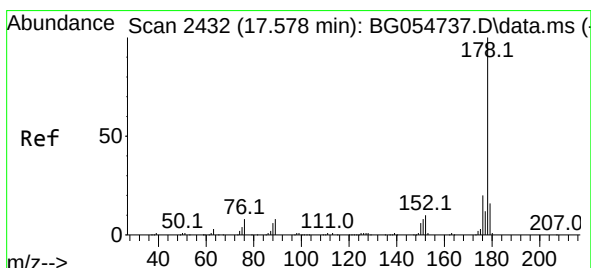
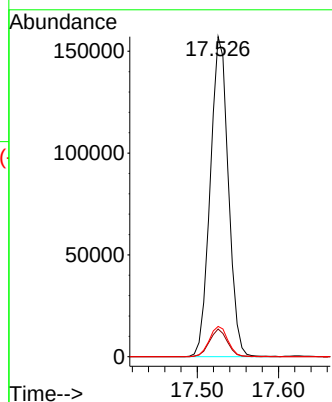
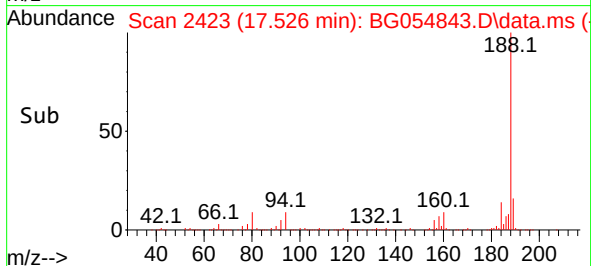


Tgt Ion:188 Resp: 242692
Ion Ratio Lower Upper
188 100
94 8.6 7.0 10.4
80 9.5 7.9 11.9

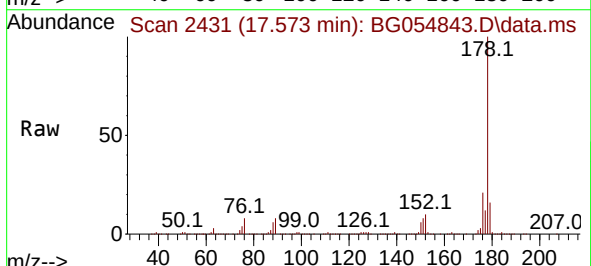
Manual Integrations

APPROVED

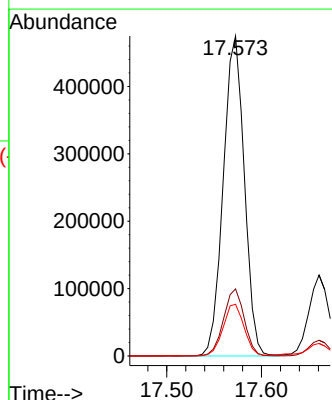
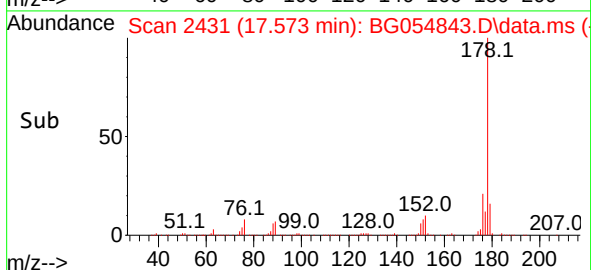
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022

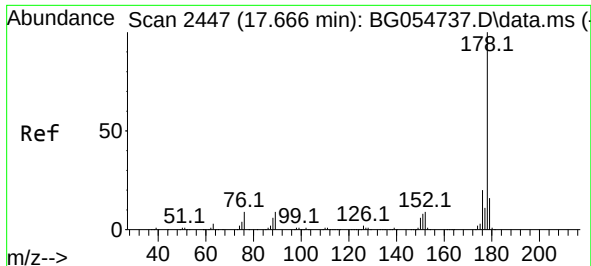


#71
Phenanthrene
Concen: 56.722 ng
RT: 17.573 min Scan# 2431
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53



Tgt Ion:178 Resp: 733317
Ion Ratio Lower Upper
178 100
176 21.0 16.6 25.0
179 16.1 12.8 19.2





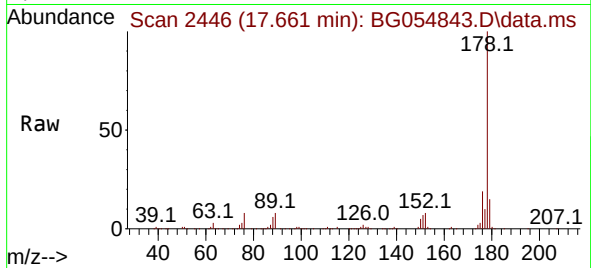
#72
 Anthracene
 Concen: 13.837 ng
 RT: 17.661 min Scan# 2447
 Delta R.T. -0.005 min
 Lab File: BG054843.D
 Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

TR-06-083122

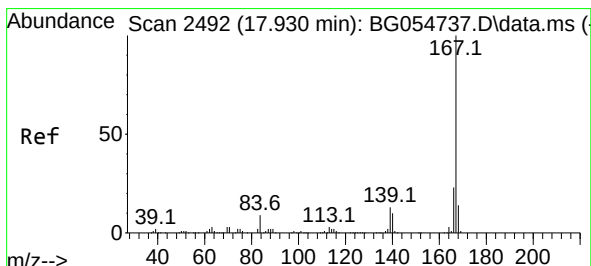
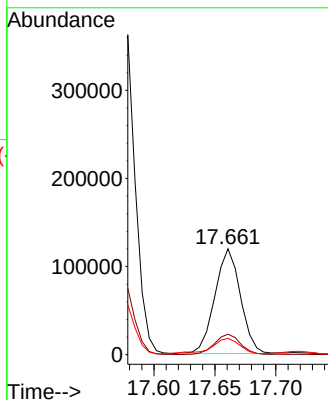
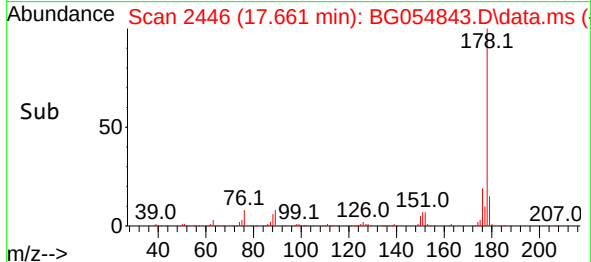


Tgt Ion:178 Resp: 173917
 Ion Ratio Lower Upper
 178 100
 176 19.3 16.2 24.4
 179 15.4 12.9 19.3

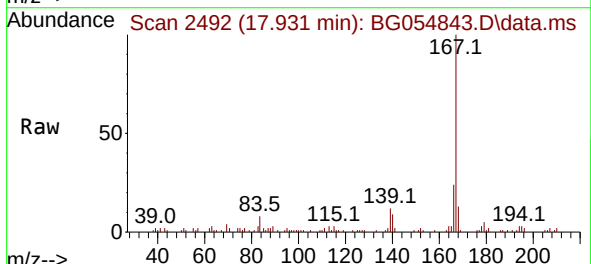
Manual Integrations

APPROVED

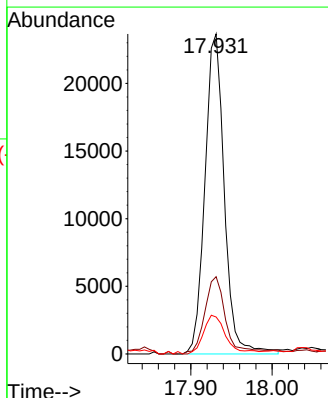
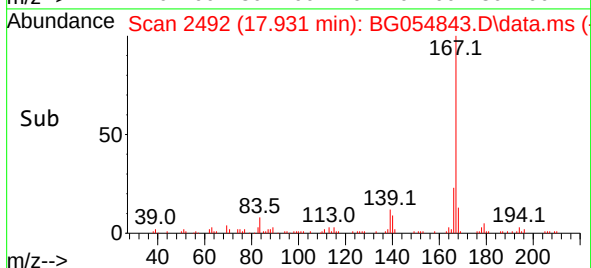
Reviewed By :Christian Giraldo 09/06/2022
 Supervised By :Jagrut Upadhyay 09/06/2022

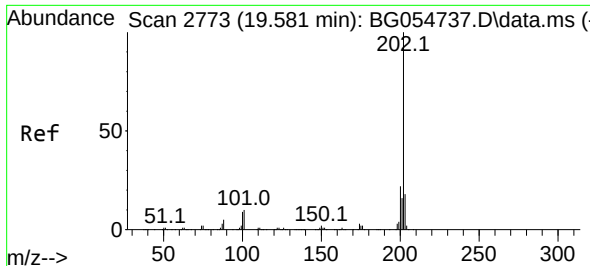


#73
 Carbazole
 Concen: 3.381 ng
 RT: 17.931 min Scan# 2492
 Delta R.T. 0.001 min
 Lab File: BG054843.D
 Acq: 2 Sep 2022 16:53



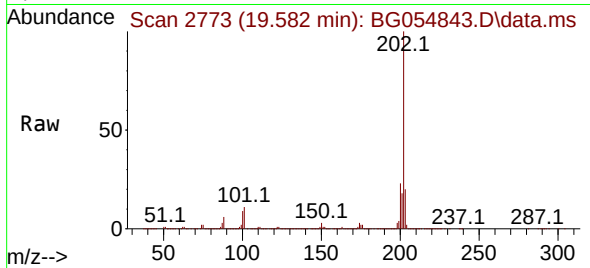
Tgt Ion:167 Resp: 39153
 Ion Ratio Lower Upper
 167 100
 166 24.1 18.8 28.2
 139 11.6 10.2 15.4





#75
Fluoranthene
Concen: 74.903 ng
RT: 19.582 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

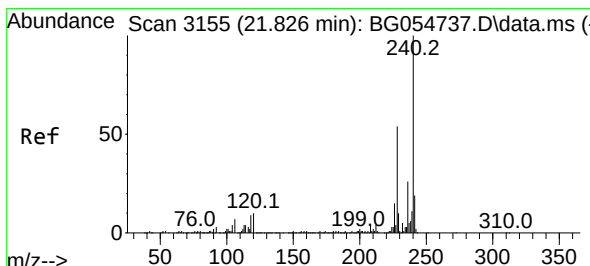
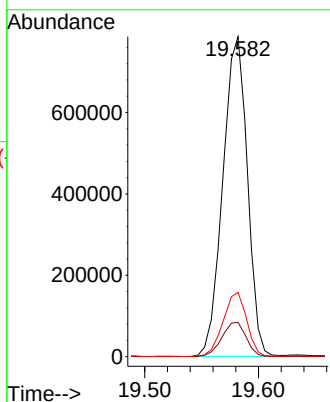
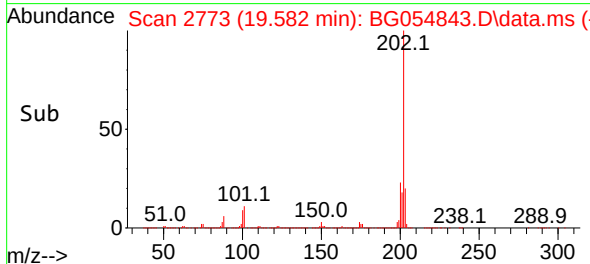
Instrument :
BNA_G
ClientSampleId :
TR-06-083122



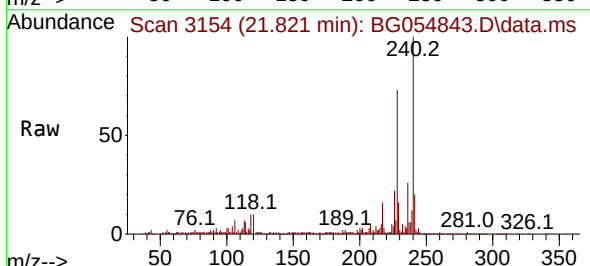
Tgt Ion:202 Resp: 117803
Ion Ratio Lower Upper
202 100
101 10.7 0.0 31.4
203 20.1 0.0 38.6

Manual Integrations
APPROVED

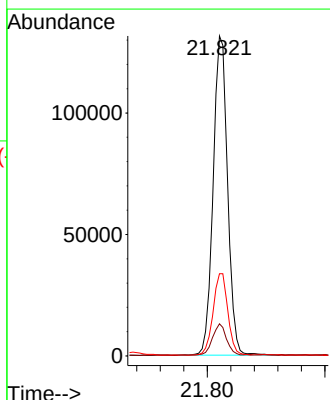
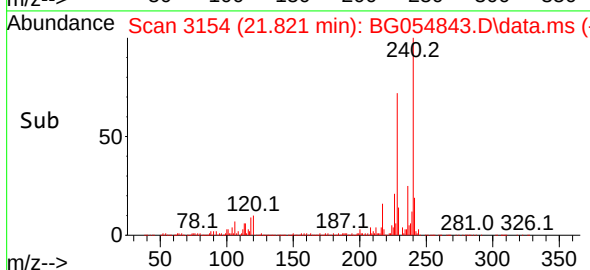
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022

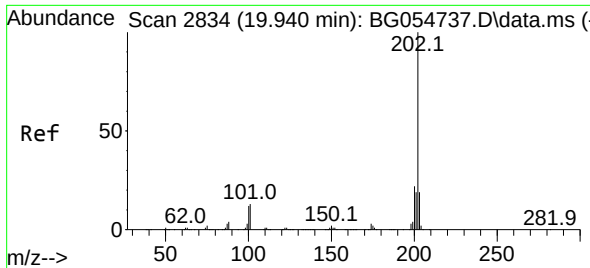


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.821 min Scan# 3154
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53



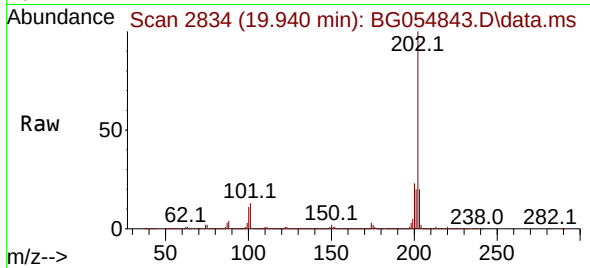
Tgt Ion:240 Resp: 223734
Ion Ratio Lower Upper
240 100
120 10.1 8.2 12.4
236 25.7 21.2 31.8





#78
Pyrene
Concen: 65.299 ng
RT: 19.940 min Scan# 2834
Delta R.T. 0.001 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

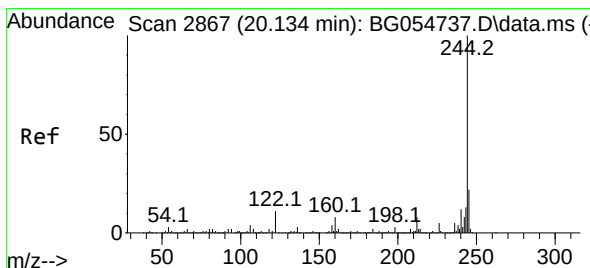
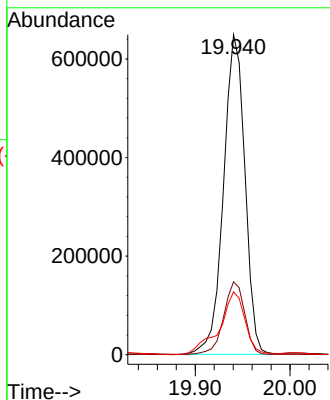
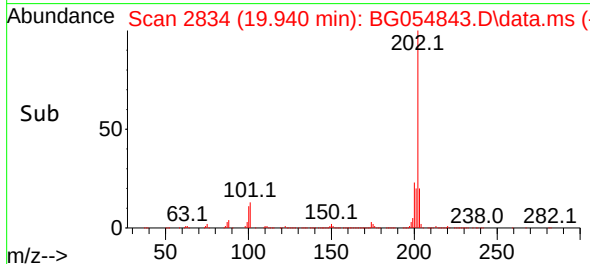
Instrument :
BNA_G
ClientSampleId :
TR-06-083122



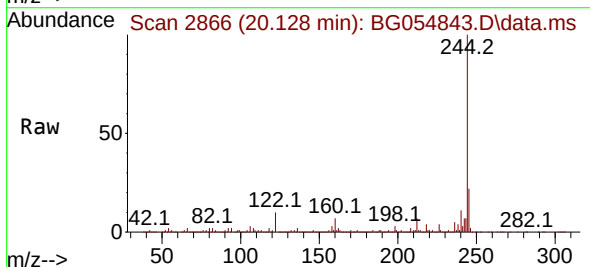
Tgt Ion:202 Resp: 1018715
Ion Ratio Lower Upper
202 100
200 22.8 17.8 26.6
203 19.6 14.6 21.8

Manual Integrations
APPROVED

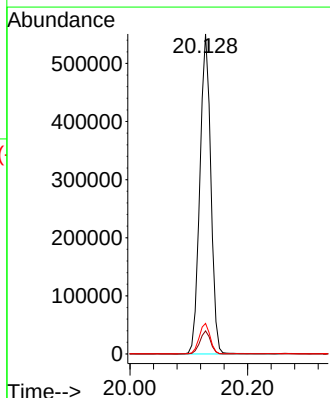
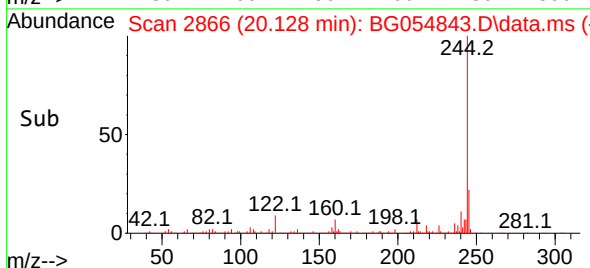
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022

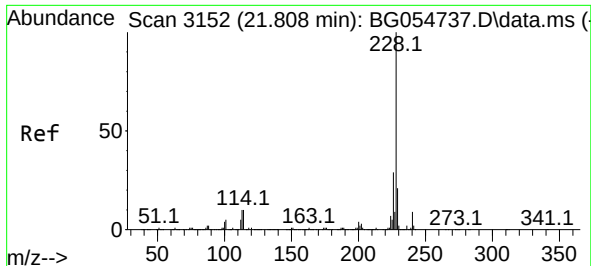


#79
Terphenyl-d14
Concen: 63.085 ng
RT: 20.128 min Scan# 2866
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53



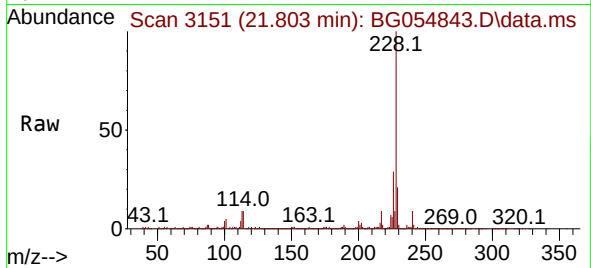
Tgt Ion:244 Resp: 712342
Ion Ratio Lower Upper
244 100
212 7.2 6.2 9.2
122 9.5 9.0 13.6





#81
Benzo(a)anthracene
Concen: 38.900 ng
RT: 21.803 min Scan# 3152
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

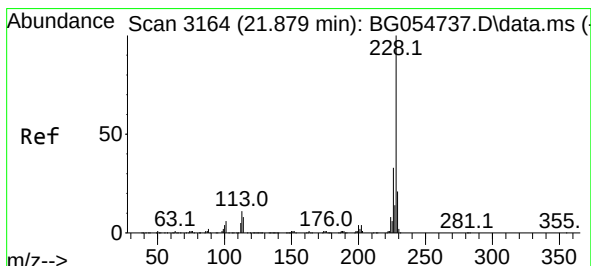
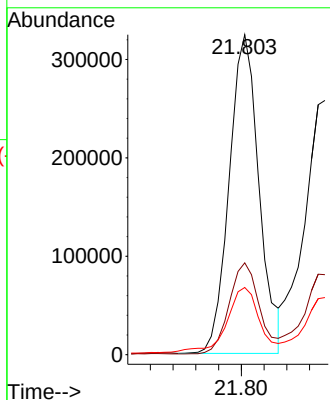
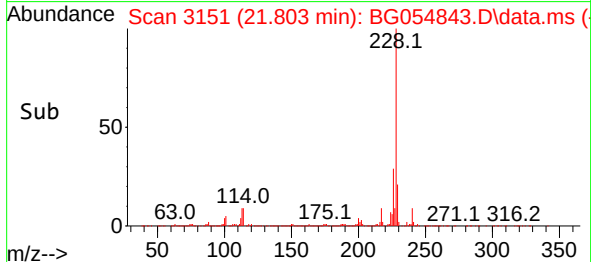
Instrument :
BNA_G
ClientSampleId :
TR-06-083122



Tgt Ion:228 Resp: 590109
Ion Ratio Lower Upper
228 100
226 28.7 23.4 35.2
229 21.0 16.5 24.7

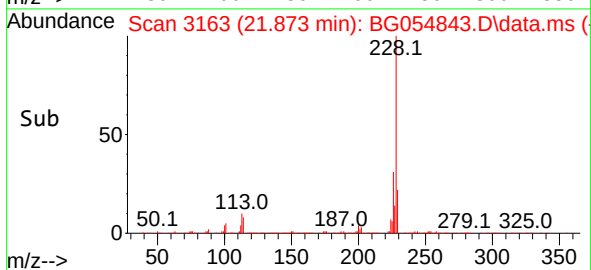
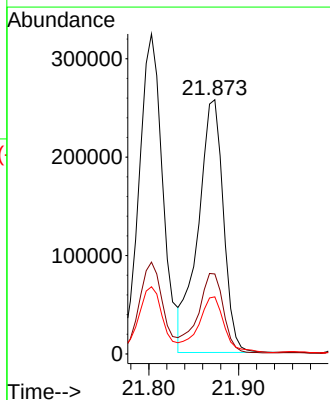
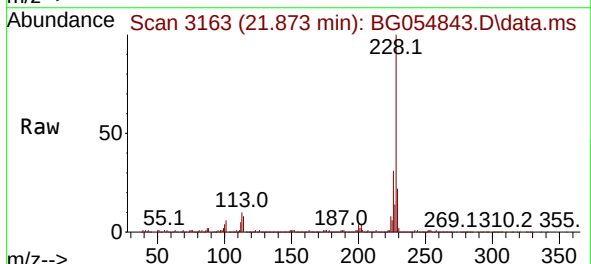
Manual Integrations
APPROVED

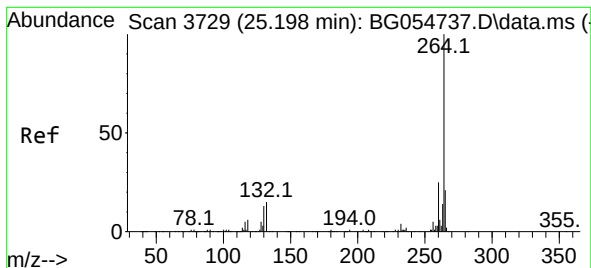
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022



#83
Chrysene
Concen: 34.683 ng
RT: 21.873 min Scan# 3163
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Tgt Ion:228 Resp: 503055
Ion Ratio Lower Upper
228 100
226 31.5 25.5 38.3
229 22.5 16.8 25.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.199 min Scan# 31

Delta R.T. 0.001 min

Lab File: BG054843.D

Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

TR-06-083122

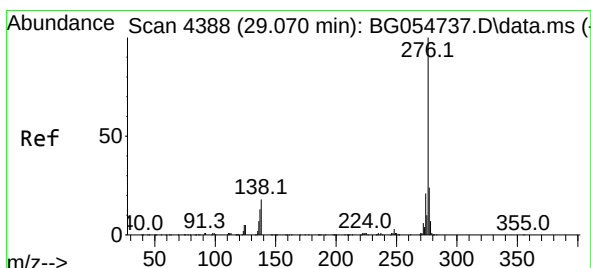
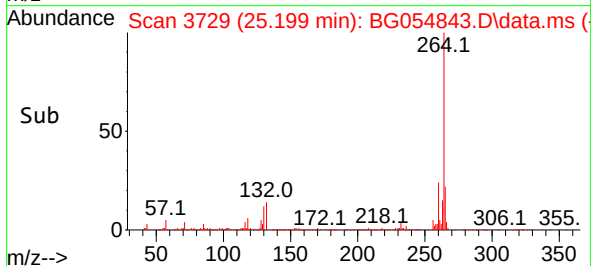
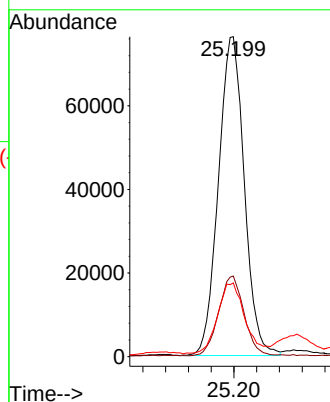
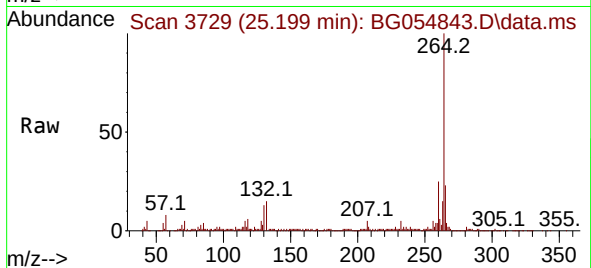
Tgt Ion:264 Resp: 24110

Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.9	29.9
265	23.0	16.9	25.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022



#87

Indeno(1,2,3-cd)pyrene

Concen: 16.911 ng

RT: 29.071 min Scan# 4388

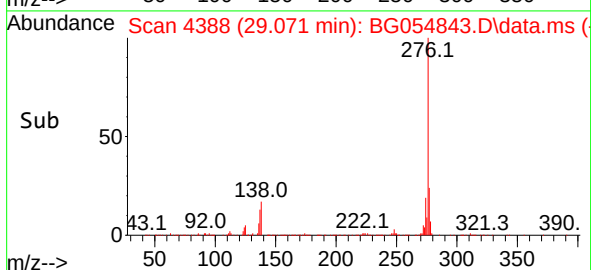
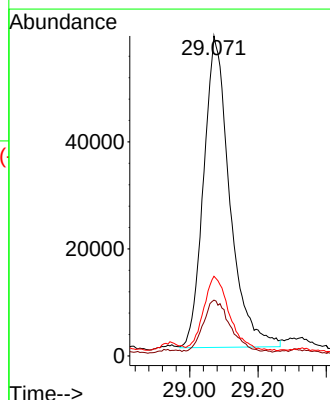
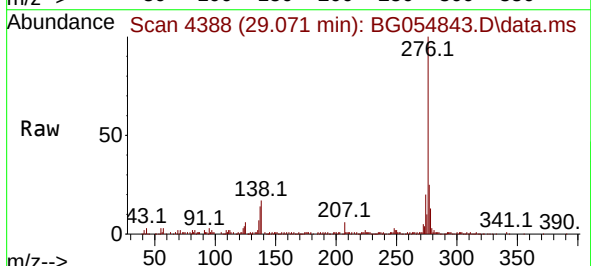
Delta R.T. 0.001 min

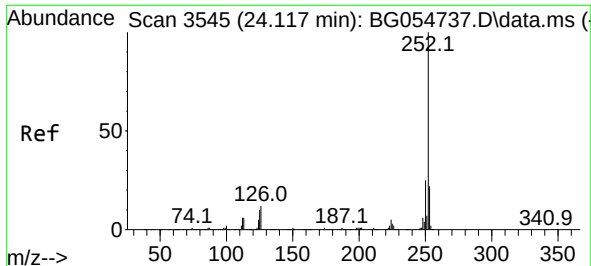
Lab File: BG054843.D

Acq: 2 Sep 2022 16:53

Tgt Ion:276 Resp: 309542

Ion	Ratio	Lower	Upper
276	100		
138	16.2	12.0	18.0
277	23.6	20.2	30.4





#88
Benzo(b)fluoranthene
Concen: 44.866 ng
RT: 24.124 min Scan# 3545
Delta R.T. 0.007 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

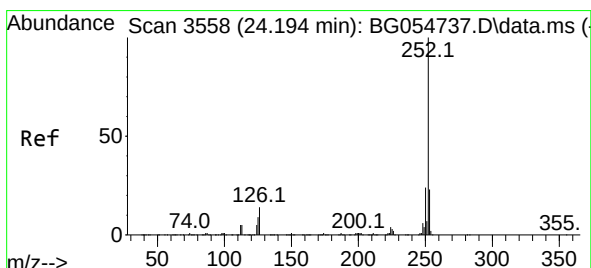
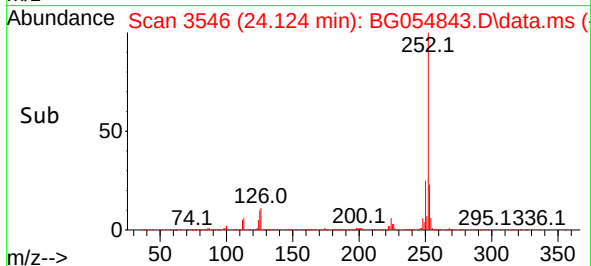
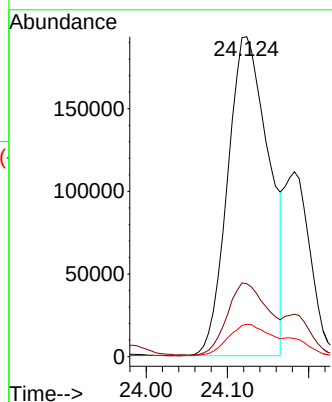
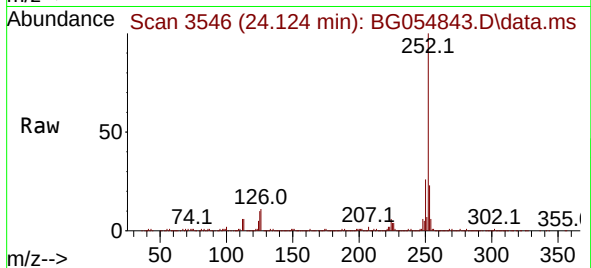
TR-06-083122

Tgt Ion:252 Resp: 678594
Ion Ratio Lower Upper
252 100
253 22.8 18.0 27.0
125 10.1 8.1 12.1

Manual Integrations

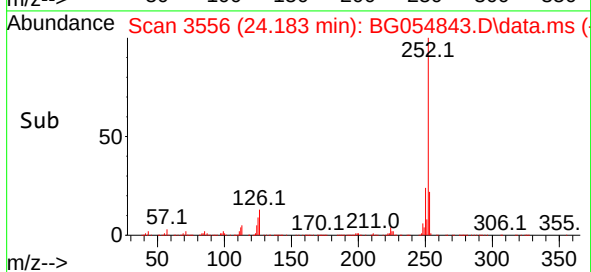
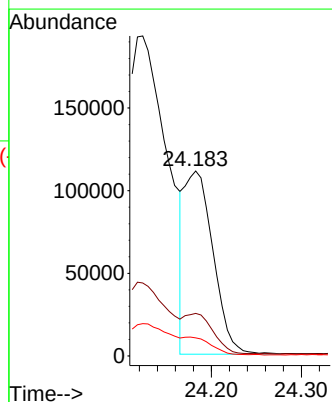
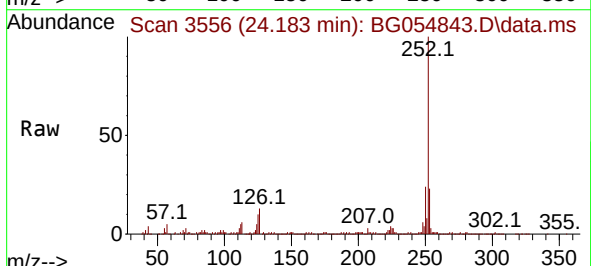
APPROVED

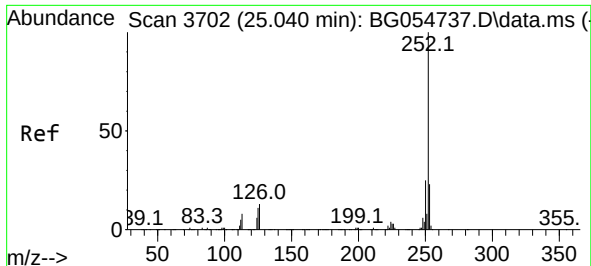
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022



#89
Benzo(k)fluoranthene
Concen: 16.090 ng m
RT: 24.183 min Scan# 3556
Delta R.T. -0.011 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Tgt Ion:252 Resp: 244924
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 9.8 8.2 12.4





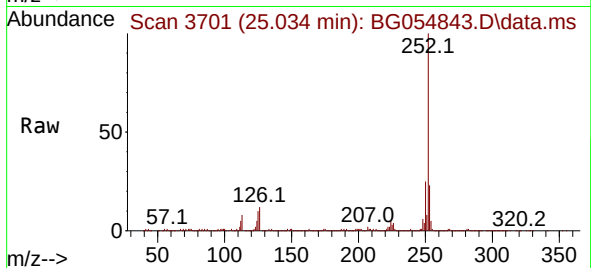
#90
Benzo(a)pyrene
Concen: 37.727 ng
RT: 25.034 min Scan# 31
Delta R.T. -0.005 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53

Instrument :

BNA_G

ClientSampleId :

TR-06-083122

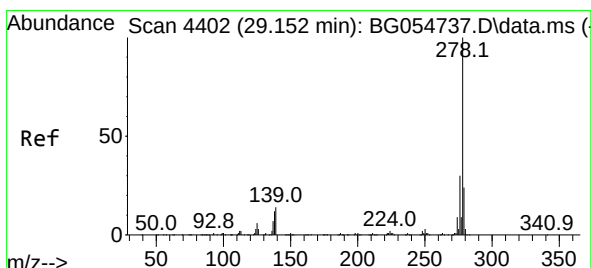
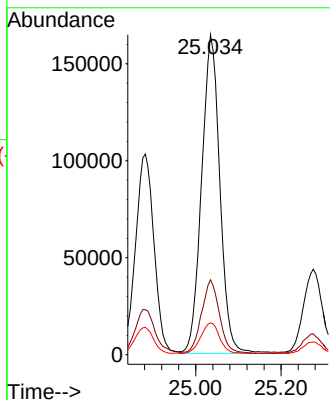
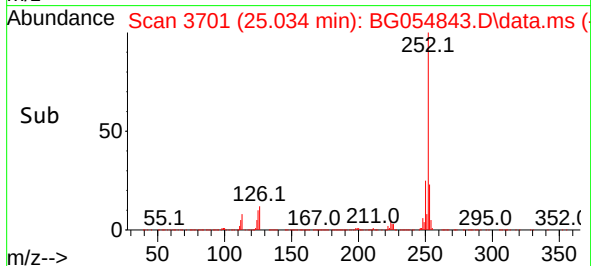


Tgt Ion:252 Resp: 487510
Ion Ratio Lower Upper
252 100
253 23.4 18.3 27.5
125 10.0 8.8 13.2

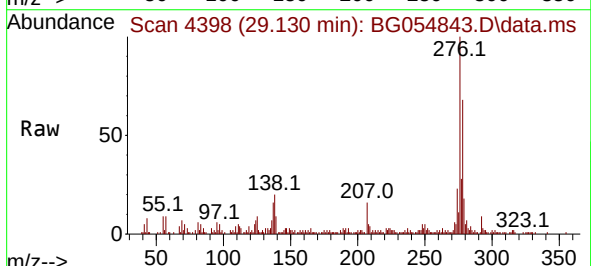
Manual Integrations

APPROVED

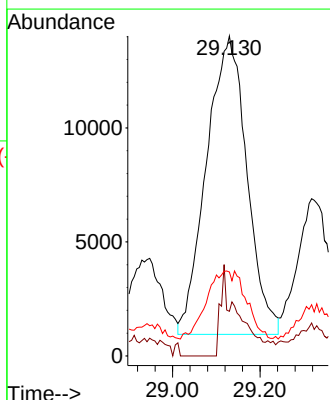
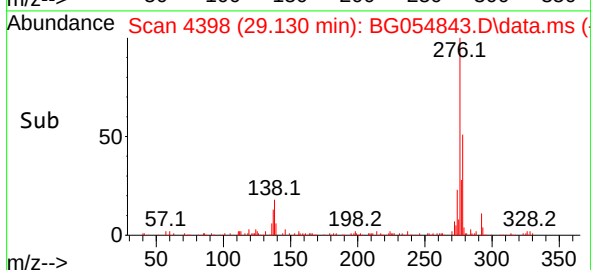
Reviewed By :Christian Giraldo 09/06/2022
Supervised By :Jagrut Upadhyay 09/06/2022

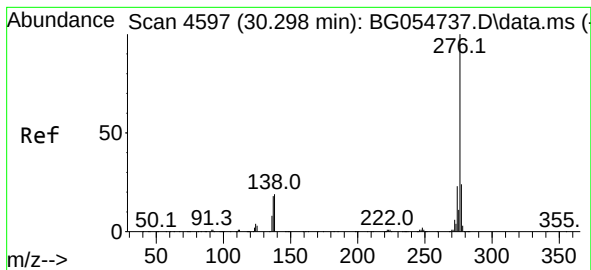


#91
Dibenzo(a,h)anthracene
Concen: 5.618 ng
RT: 29.130 min Scan# 4398
Delta R.T. -0.023 min
Lab File: BG054843.D
Acq: 2 Sep 2022 16:53



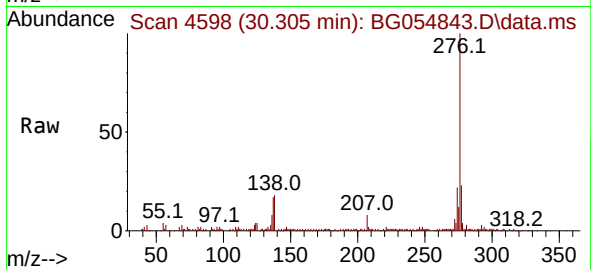
Tgt Ion:278 Resp: 83781
Ion Ratio Lower Upper
278 100
139 13.9 11.4 17.2
279 26.3 19.3 28.9





#92
 Benzo(g,h,i)perylene
 Concen: 19.017 ng
 RT: 30.305 min Scan# 4598
 Delta R.T. 0.007 min
 Lab File: BG054843.D
 Acq: 2 Sep 2022 16:53

Instrument :
 BNA_G
 ClientSampleId :
 TR-06-083122



Tgt Ion:276 Resp: 286495
 Ion Ratio Lower Upper
 276 100
 277 23.3 19.4 29.0
 138 18.1 16.6 25.0

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 09/06/2022
 Supervised By :Jagrut Upadhyay 09/06/2022

