

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072522\
 Data File : BG054381.D
 Acq On : 25 Jul 2022 15:51
 Operator : CG/JU
 Sample : N3814-04DL 25X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-3(0-5)DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 07/26/2022
 Supervised By : Jagrut Upadhyay 07/26/2022

Quant Time: Jul 26 00:54:58 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG071522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 15 15:54:11 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.988	152	27675	20.000	ng	-0.01
21) Naphthalene-d8	10.796	136	103771	20.000	ng	#-0.01
39) Acenaphthene-d10	14.621	164	79837	20.000	ng	-0.01
64) Phenanthrene-d10	17.365	188	199349	20.000	ng	#-0.01
76) Chrysene-d12	21.631	240	222766	20.000	ng	#-0.01
86) Perylene-d12	24.833	264	240973	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.567	112	5869	4.428	ng	0.00
7) Phenol-d6	7.171	99	7574	4.170	ng	0.00
23) Nitrobenzene-d5	9.157	82	5220	2.739	ng	0.00
42) 2,4,6-Tribromophenol	16.114	330	6797	4.055	ng	-0.01
45) 2-Fluorobiphenyl	13.246	172	15756	2.784	ng	-0.01
79) Terphenyl-d14	19.974	244	34605	3.082	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.849	128	23573	4.525	ng	98
37) 2-Methylnaphthalene	12.453	142	13881	3.470	ng	97
38) 1-Methylnaphthalene	12.671	142	13860m	3.556	ng	
52) Acenaphthene	14.686	154	13273	3.227	ng	95
58) Fluorene	15.667	166	24287	4.037	ng	92
71) Phenanthrene	17.412	178	405933	40.890	ng	99
72) Anthracene	17.500	178	94686	9.719	ng	98
73) Carbazole	17.771	167	29680	3.701	ng	98
75) Fluoranthene	19.422	202	650580	48.074	ng	94
78) Pyrene	19.786	202	599761	46.922	ng	97
81) Benzo(a)anthracene	21.613	228	374579	26.489	ng	98
83) Chrysene	21.678	228	335764m	25.132	ng	
87) Indeno(1,2,3-cd)pyrene	28.499	276	213988	11.673	ng	# 99
88) Benzo(b)fluoranthene	23.822	252	394985m	27.717	ng	
89) Benzo(k)fluoranthene	23.875	252	160023m	11.283	ng	
90) Benzo(a)pyrene	24.680	252	309965m	25.469	ng	
91) Dibenzo(a,h)anthracene	28.517	278	57599	3.821	ng	# 88
92) Benzo(g,h,i)perylene	29.639	276	198622	13.350	ng	# 91

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

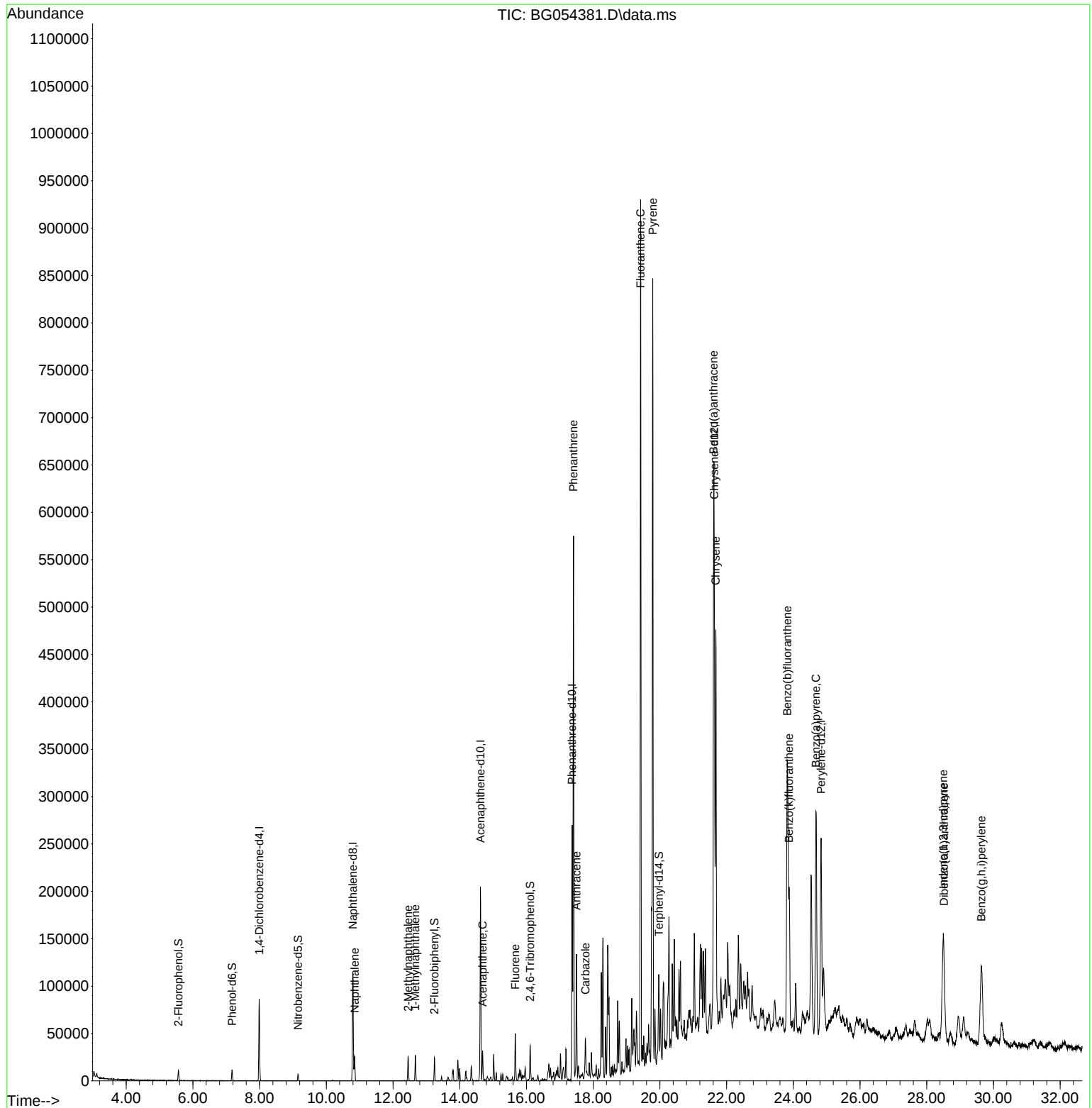
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072522\
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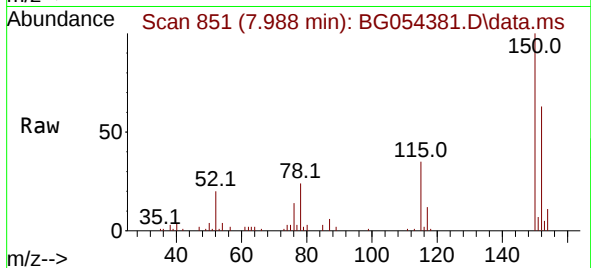
Reviewed By : Christian Giraldo 07/26/2022
Supervised By : Jagrut Upadhyay 07/26/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.988 min Scan# 81
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

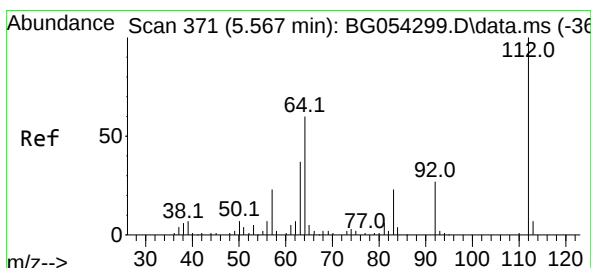
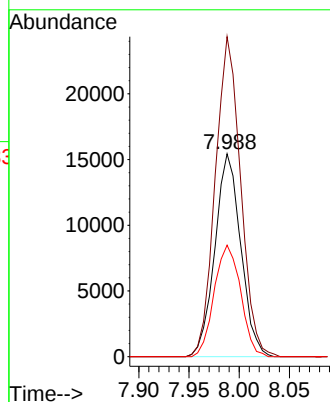
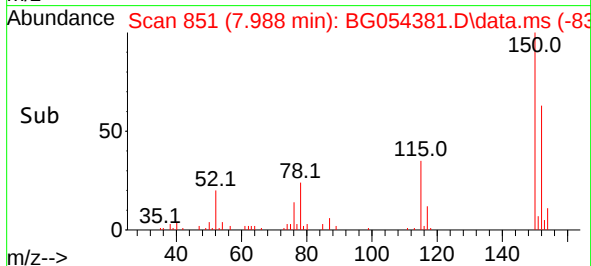
Instrument :
BNA_G
ClientSampleId :
ENV-DE-3(0-5)DL



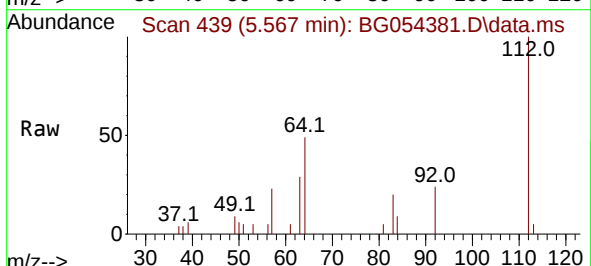
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Ion Ratio Lower Upper
152 100
150 157.7 131.6 197.4
115 54.9 50.9 76.3

Manual Integrations
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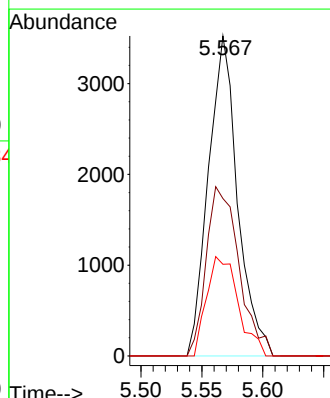
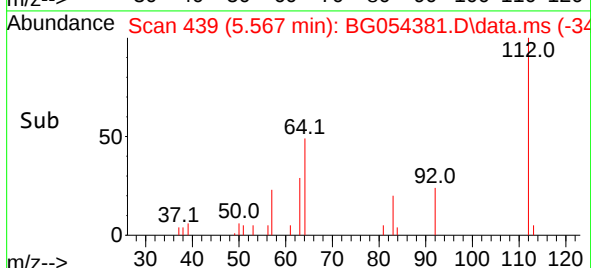
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#5
2-Fluorophenol
Concen: 4.428 ng
RT: 5.567 min Scan# 439
Delta R.T. -0.000 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51



Tgt Ion:112 Resp: 5869
Ion Ratio Lower Upper
112 100
64 49.2 55.1 82.7#
63 28.7 30.4 45.6#





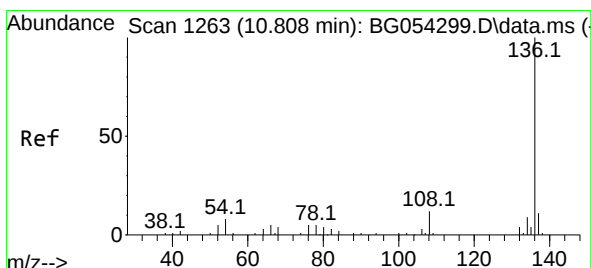
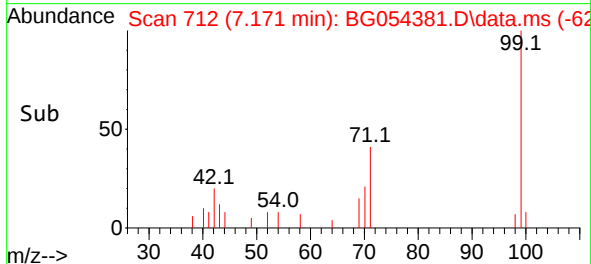
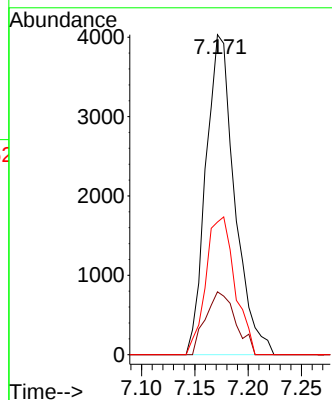
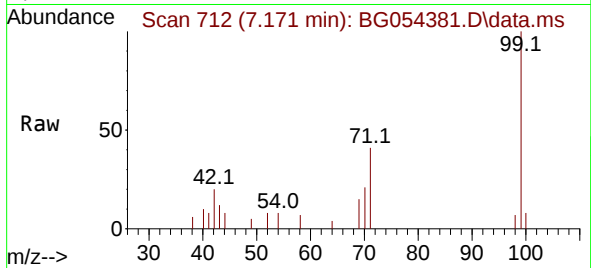
#7
Phenol-d6
Concen: 4.170 ng
RT: 7.171 min Scan# 71
Delta R.T. -0.000 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

Instrument :
BNA_G
ClientSampleId :
ENV-DE-3(0-5)DL

Tgt Ion: 99 Resp: 7574
Ion Ratio Lower Upper
99 100
42 19.6 17.0 25.6
71 41.5 33.8 50.8

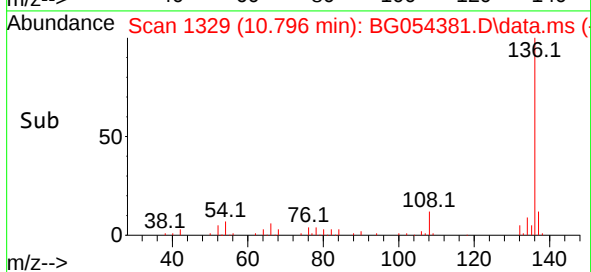
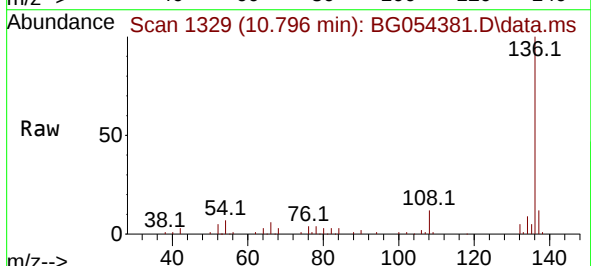
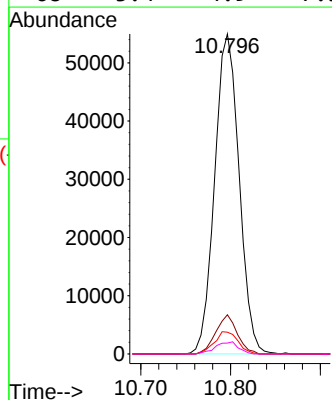
Manual Integrations
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Supervised By :Jagrut Upadhyay 07/26/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.796 min Scan# 1329
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

Tgt Ion:136 Resp: 103771
Ion Ratio Lower Upper
136 100
137 12.3 8.5 12.7
54 6.8 7.4 11.2#
68 3.4 4.9 7.3#





#23
Nitrobenzene-d5
Concen: 2.739 ng
RT: 9.157 min Scan# 1050
Delta R.T. -0.006 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

Instrument :

BNA_G

ClientSampleId :

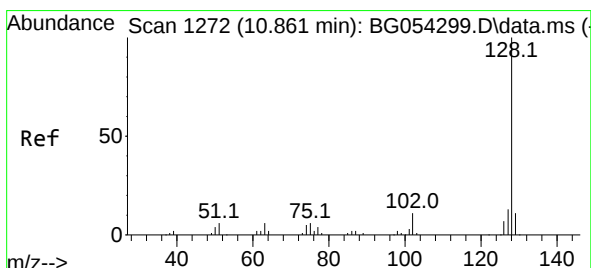
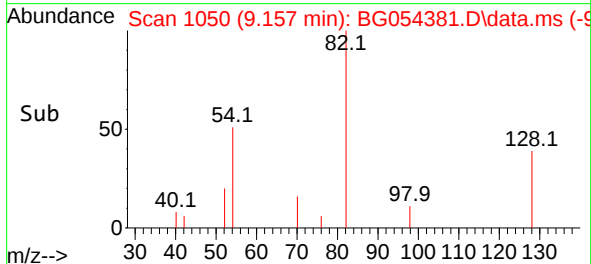
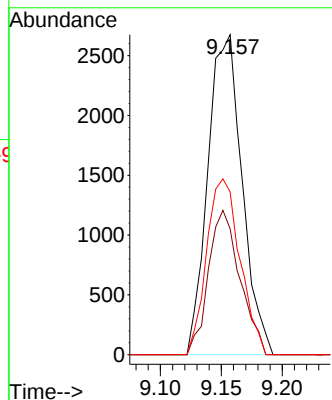
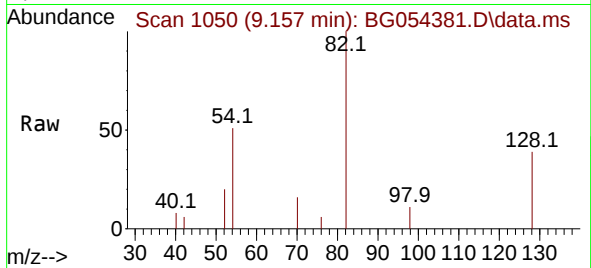
ENV-DE-3(0-5)DL

Tgt Ion: 82 Resp: 5220
Ion Ratio Lower Upper
82 100
128 39.4 27.9 41.9
54 50.8 41.2 61.8

Manual Integrations

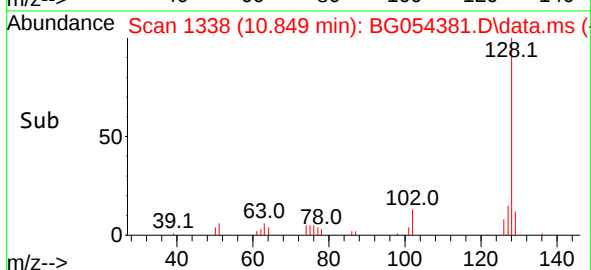
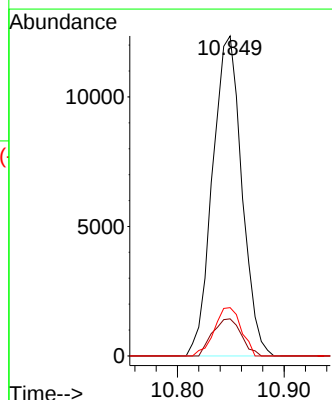
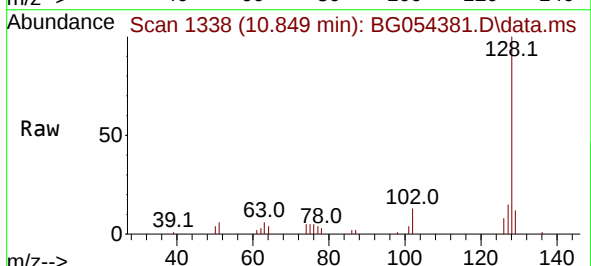
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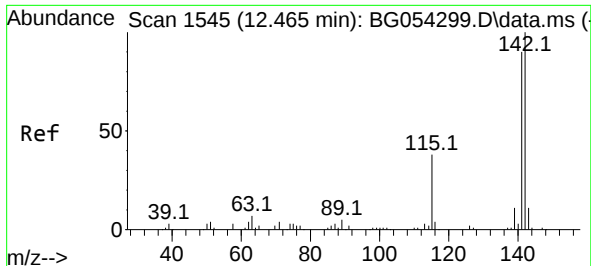
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#31
Naphthalene
Concen: 4.525 ng
RT: 10.849 min Scan# 1338
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

Tgt Ion:128 Resp: 23573
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.6
127 15.1 11.1 16.7





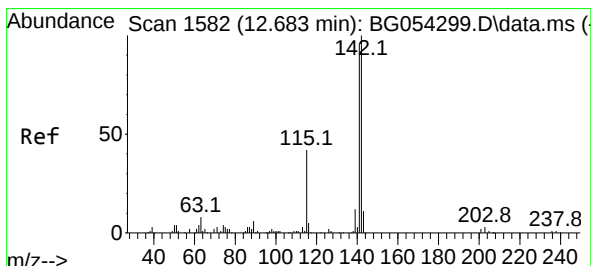
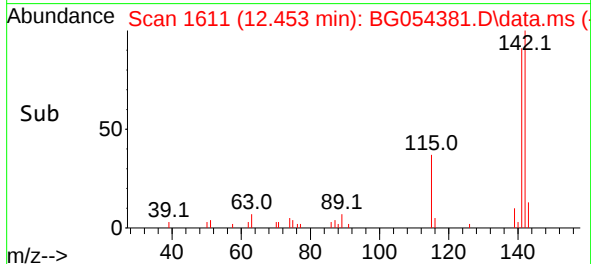
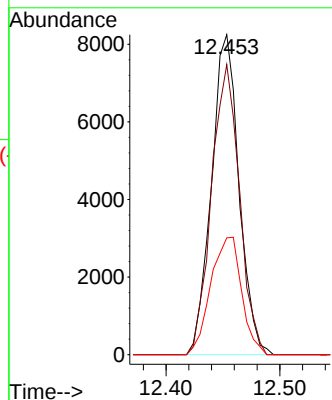
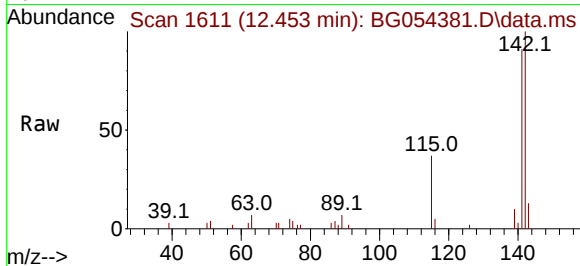
#37
2-Methylnaphthalene
Concen: 3.470 ng
RT: 12.453 min Scan# 1
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

Instrument :
BNA_G
ClientSampleId :
ENV-DE-3(0-5)DL

Tgt Ion:142 Resp: 1388
Ion Ratio Lower Upper
142 100
141 90.7 72.3 108.5
115 36.5 33.7 50.5

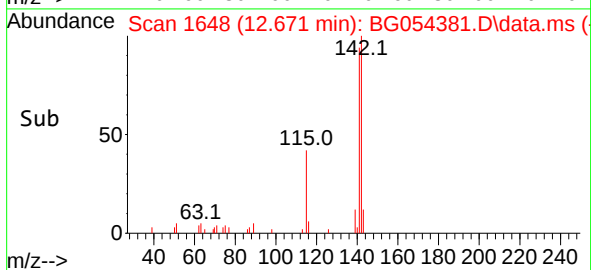
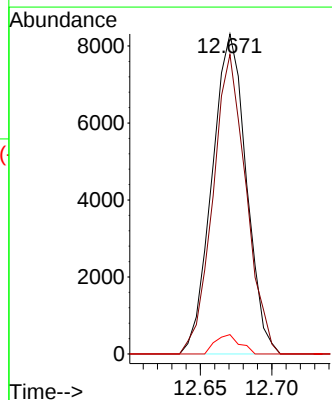
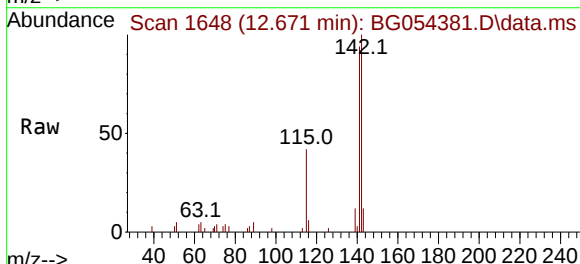
Manual Integrations
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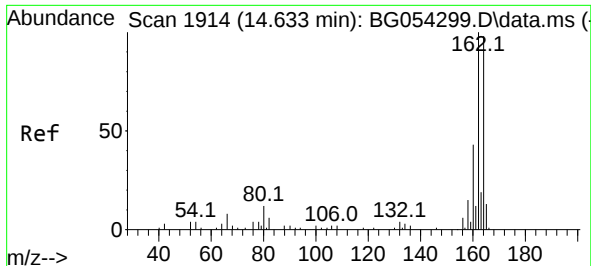
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#38
1-Methylnaphthalene
Concen: 3.556 ng m
RT: 12.671 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

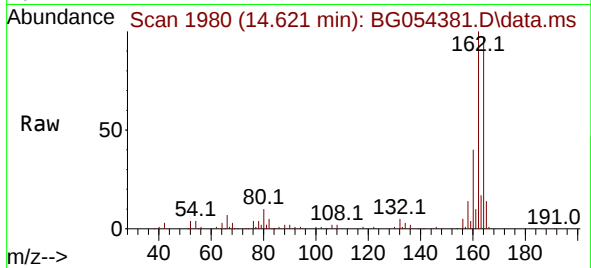
Tgt Ion:142 Resp: 13860
Ion Ratio Lower Upper
142 100
141 93.6 76.4 114.6
116 6.0 3.3 4.9#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.621 min Scan# 1914
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

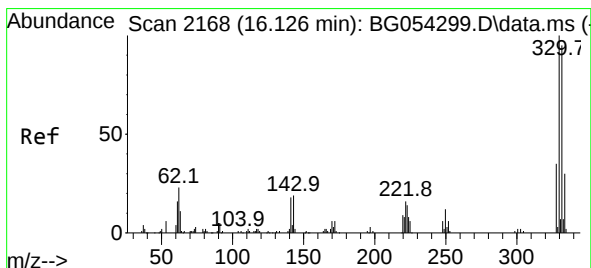
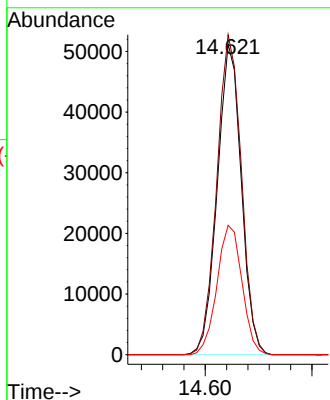
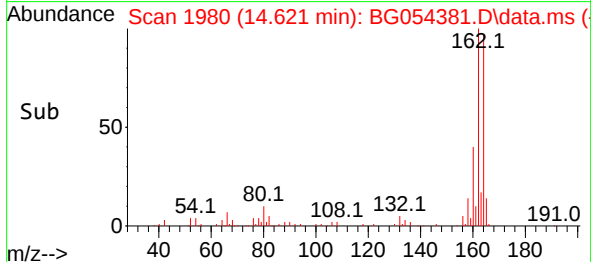
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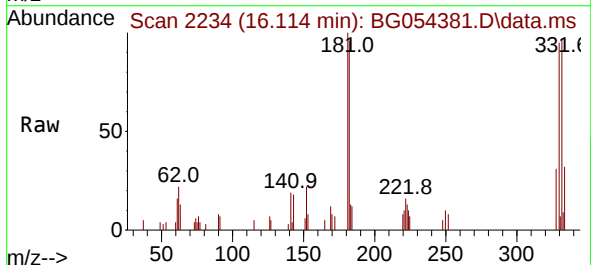
Tgt Ion:164 Resp: 7983
Ion Ratio Lower Upper
164 100
162 103.0 82.3 123.5
160 41.7 34.2 51.2

Manual Integrations
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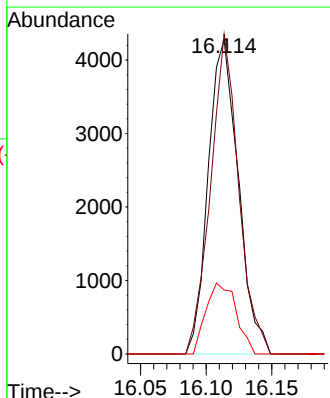
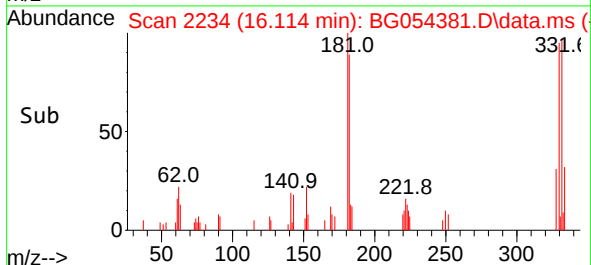
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Supervised By :Jagrut Upadhyay 07/26/2022

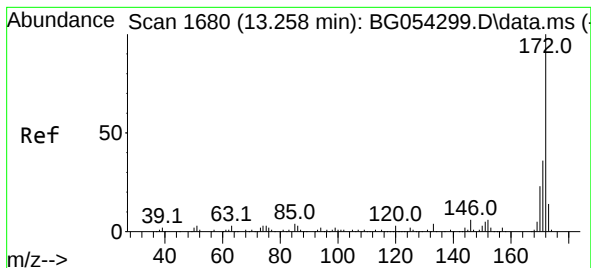


#42
2,4,6-Tribromophenol
Concen: 4.055 ng
RT: 16.114 min Scan# 2234
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51



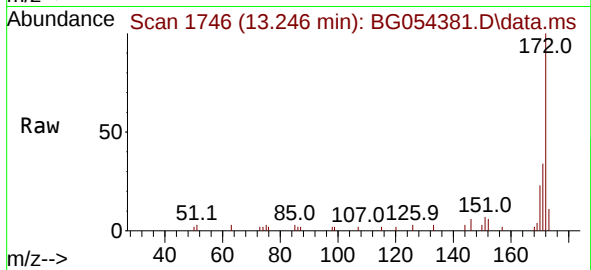
Tgt Ion:330 Resp: 6797
Ion Ratio Lower Upper
330 100
332 95.2 76.0 114.0
141 22.6 27.1 40.7#





#45
2-Fluorobiphenyl
Concen: 2.784 ng
RT: 13.246 min Scan# 11
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

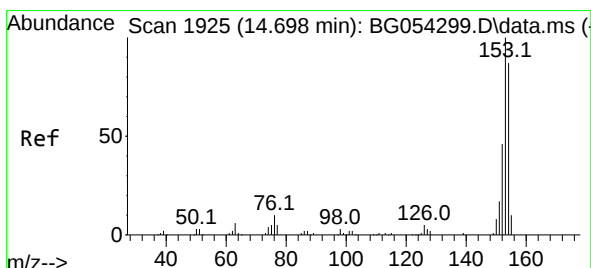
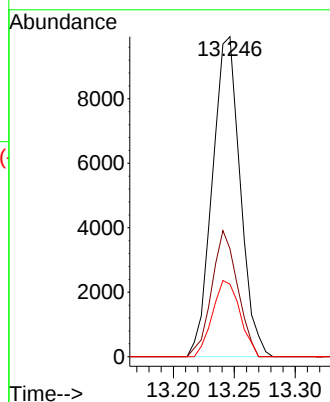
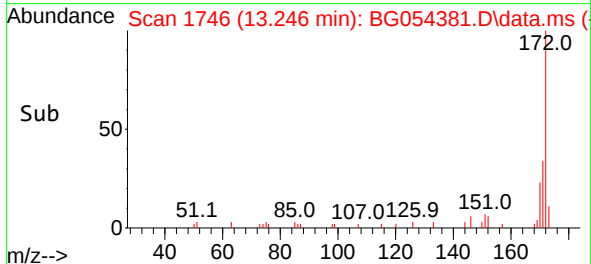
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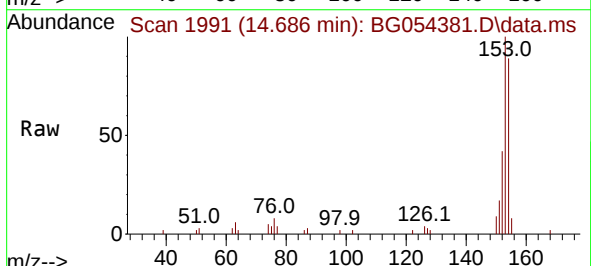
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Ion Ratio Lower Upper
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170 22.6 18.9 28.3

Manual Integrations
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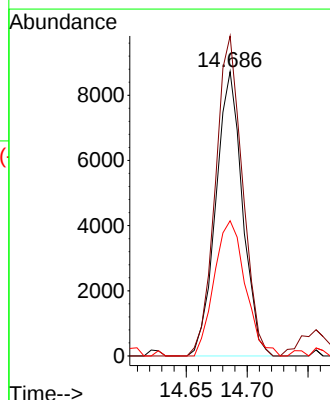
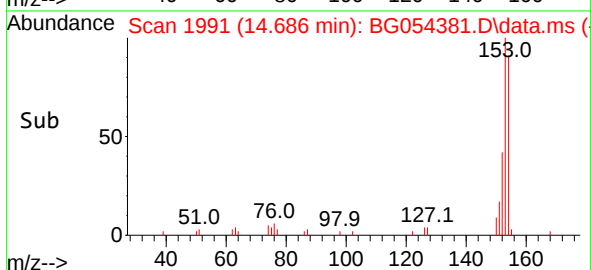
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

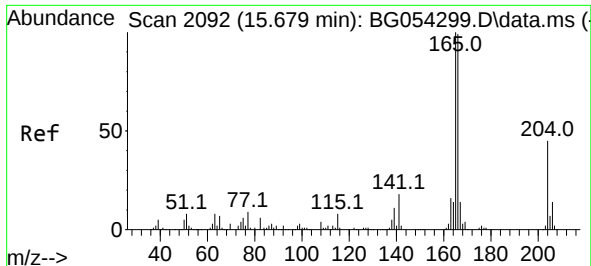


#52
Acenaphthene
Concen: 3.227 ng
RT: 14.686 min Scan# 1991
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51



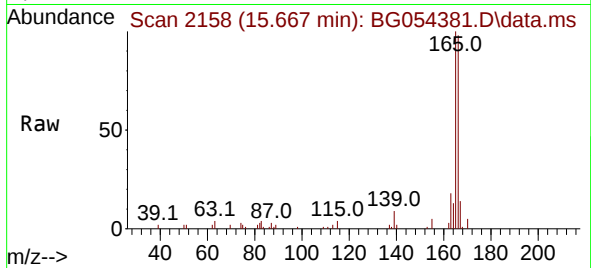
Tgt Ion:154 Resp: 13273
Ion Ratio Lower Upper
154 100
153 112.5 92.7 139.1
152 47.6 42.6 64.0





#58
Fluorene
Concen: 4.037 ng
RT: 15.667 min Scan# 2158
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

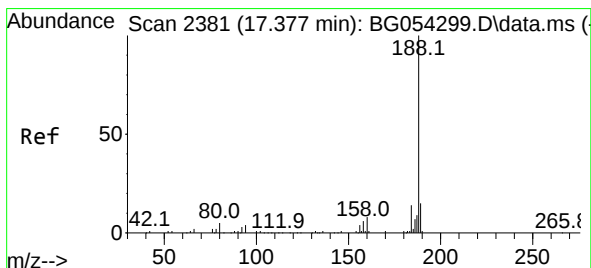
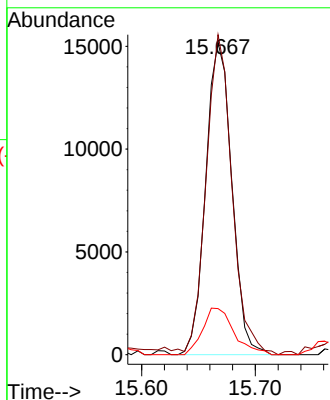
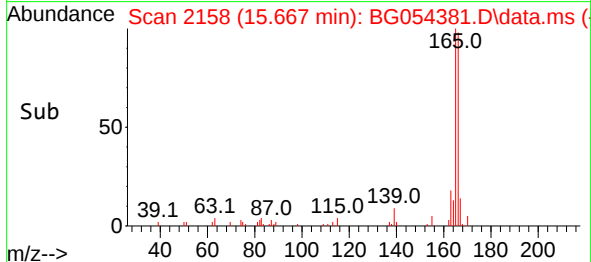
Instrument :
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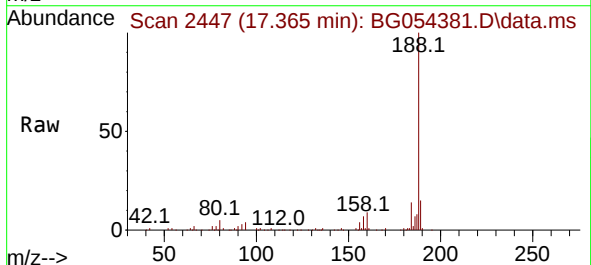
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Ion Ratio Lower Upper
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165 102.5 75.0 112.6
167 14.7 10.8 16.2

Manual Integrations
APPROVED

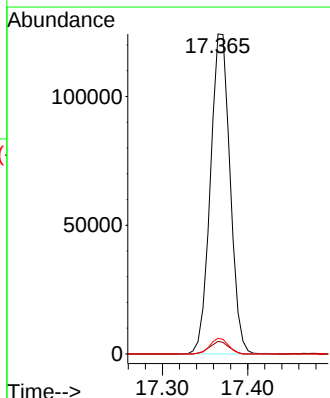
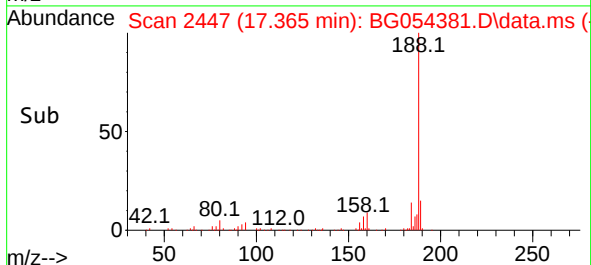
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

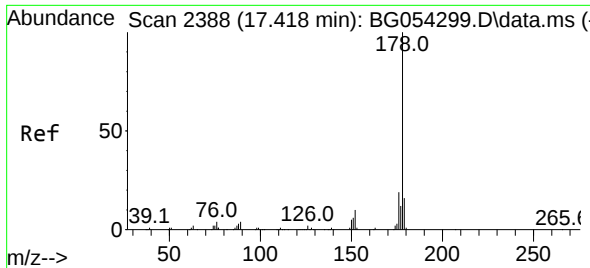


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.365 min Scan# 2447
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51



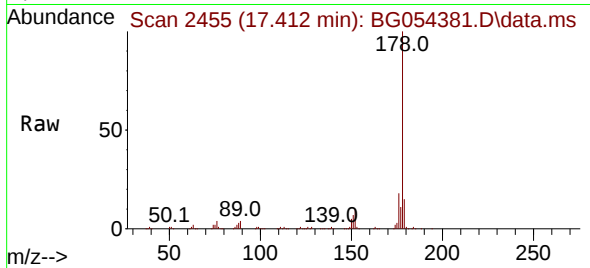
Tgt Ion:188 Resp: 199349
Ion Ratio Lower Upper
188 100
94 4.0 5.4 8.0#
80 4.9 6.8 10.2#





#71
Phenanthrene
Concen: 40.890 ng
RT: 17.412 min Scan# 2470
Delta R.T. -0.006 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

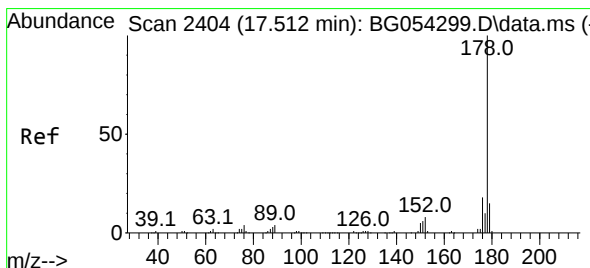
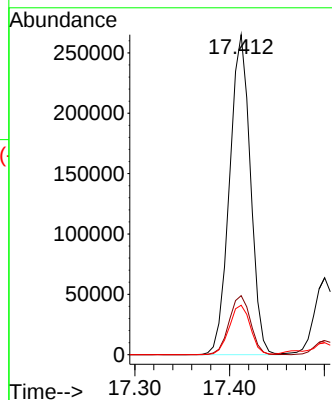
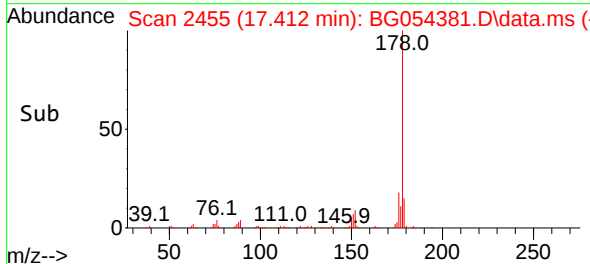
Instrument :
BNA_G
ClientSampleId :
ENV-DE-3(0-5)DL



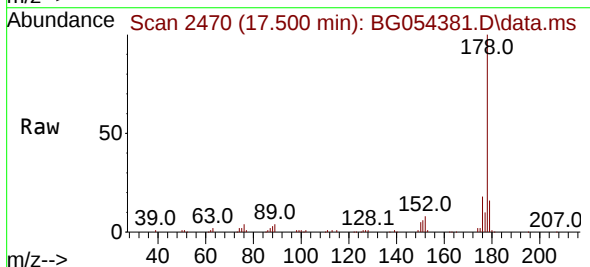
Tgt Ion:178 Resp: 40593
Ion Ratio Lower Upper
178 100
176 18.5 14.1 21.1
179 15.4 12.1 18.1

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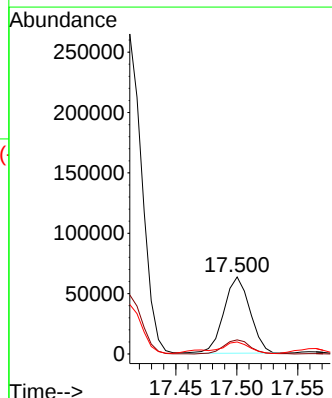
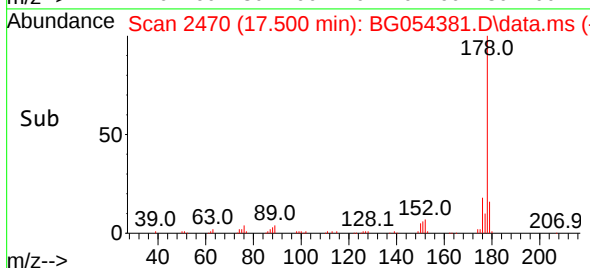
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

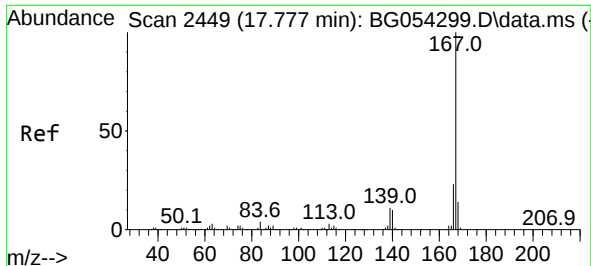


#72
Anthracene
Concen: 9.719 ng
RT: 17.500 min Scan# 2470
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51



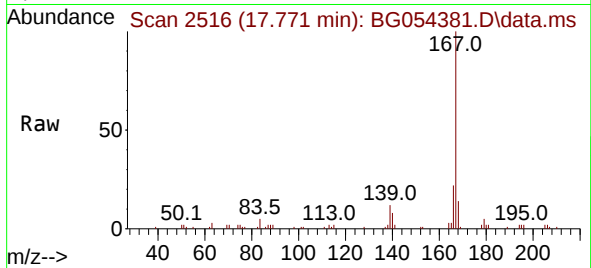
Tgt Ion:178 Resp: 94686
Ion Ratio Lower Upper
178 100
176 18.3 15.2 22.8
179 15.5 13.0 19.4





#73
 Carbazole
 Concen: 3.701 ng
 RT: 17.771 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BG054381.D
 Acq: 25 Jul 2022 15:51

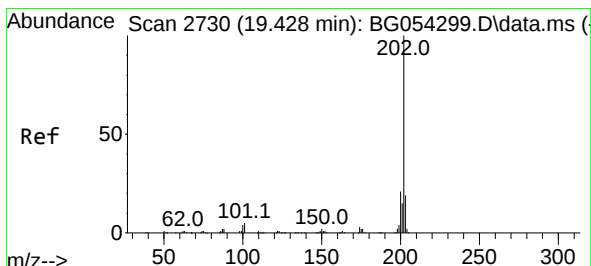
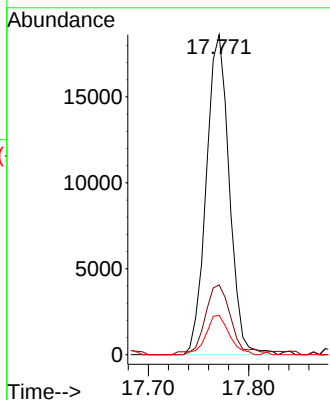
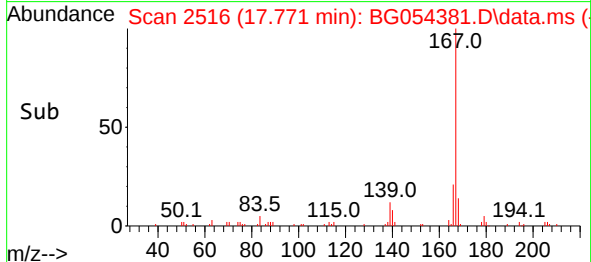
Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-3(0-5)DL



Tgt Ion:167 Resp: 29680
 Ion Ratio Lower Upper
 167 100
 166 21.8 18.2 27.2
 139 12.3 10.1 15.1

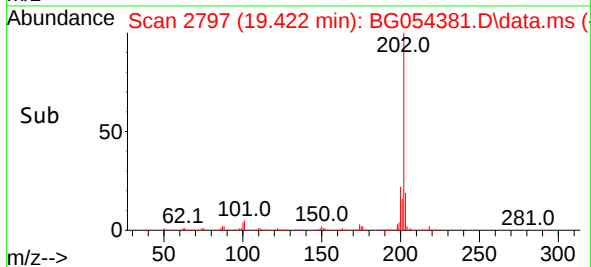
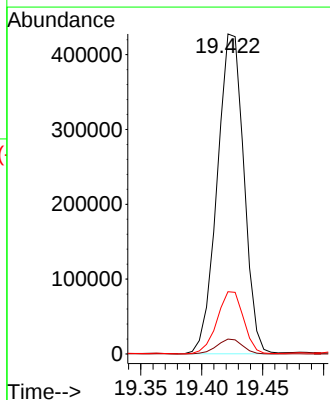
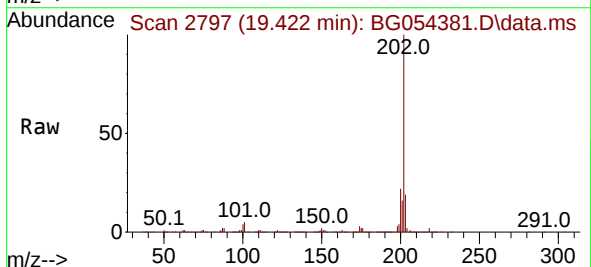
Manual Integrations
 APPROVED

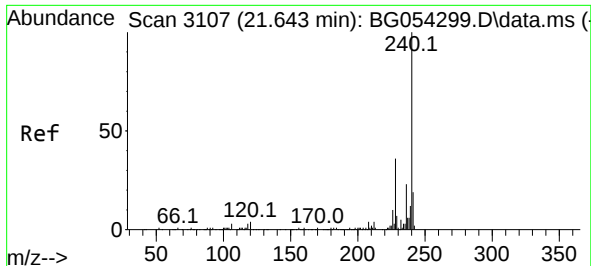
Reviewed By :Christian Giraldo 07/26/2022
 Supervised By :Jagrut Upadhyay 07/26/2022



#75
 Fluoranthene
 Concen: 48.074 ng
 RT: 19.422 min Scan# 2797
 Delta R.T. -0.006 min
 Lab File: BG054381.D
 Acq: 25 Jul 2022 15:51

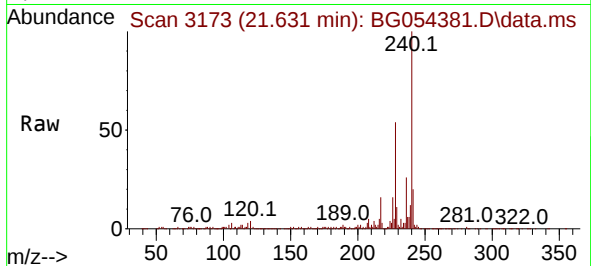
Tgt Ion:202 Resp: 650580
 Ion Ratio Lower Upper
 202 100
 101 4.7 0.0 26.9
 203 19.4 0.0 37.2





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.631 min Scan# 3107
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

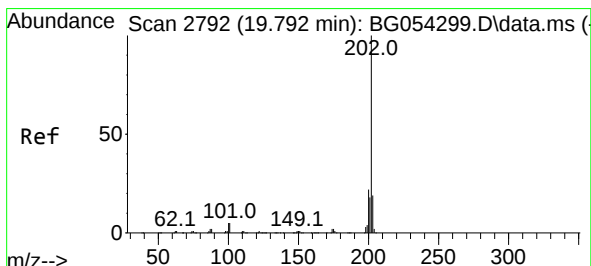
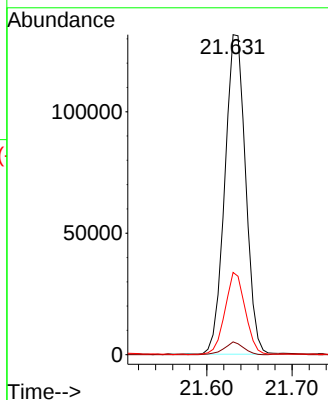
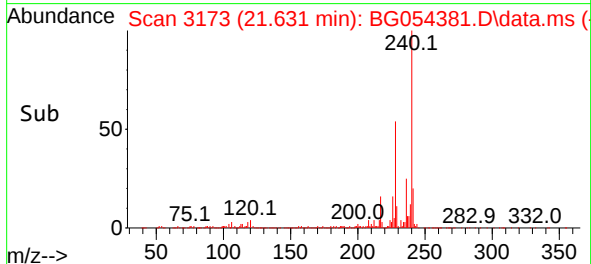
Instrument :
BNA_G
ClientSampleId :
ENV-DE-3(0-5)DL



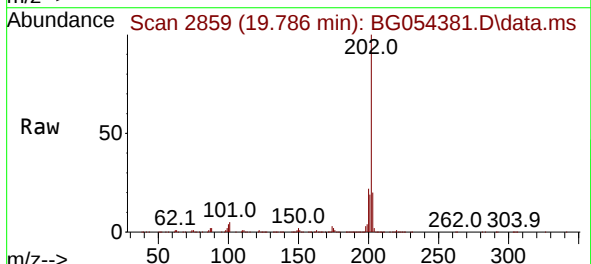
Tgt Ion:240 Resp: 222760
Ion Ratio Lower Upper
240 100
120 4.0 4.6 7.0
236 25.7 20.2 30.4

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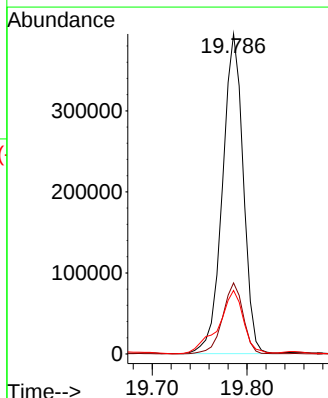
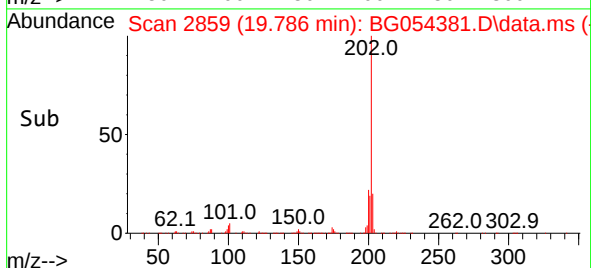
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

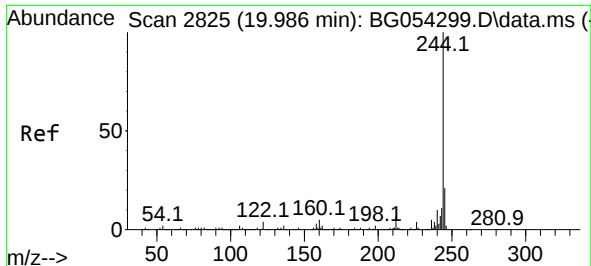


#78
Pyrene
Concen: 46.922 ng
RT: 19.786 min Scan# 2859
Delta R.T. -0.006 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51



Tgt Ion:202 Resp: 599761
Ion Ratio Lower Upper
202 100
200 22.2 16.6 24.8
203 19.8 14.6 21.8





#79
 Terphenyl-d14
 Concen: 3.082 ng
 RT: 19.974 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BG054381.D
 Acq: 25 Jul 2022 15:51

Instrument :

BNA_G

ClientSampleId :

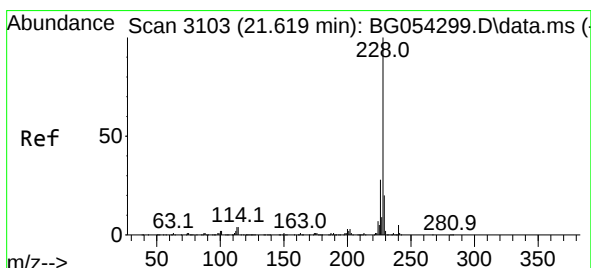
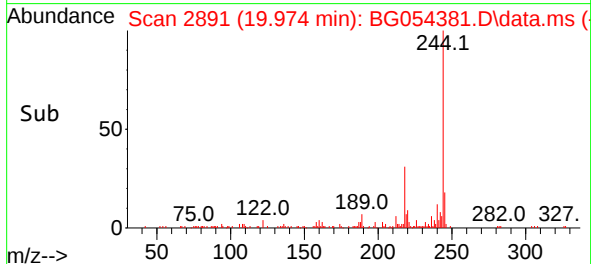
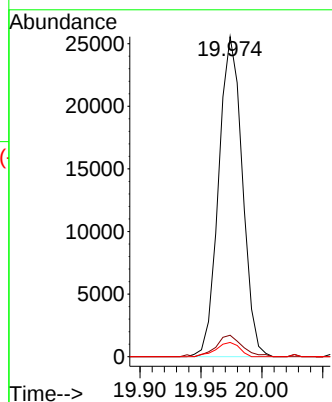
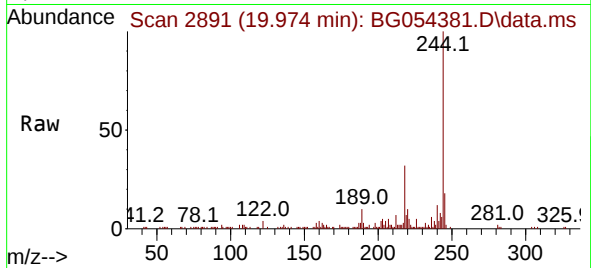
ENV-DE-3(0-5)DL

Tgt Ion:244 Resp: 3460
 Ion Ratio Lower Upper
 244 100
 212 6.7 6.5 9.7
 122 4.5 5.0 7.4

Manual Integrations

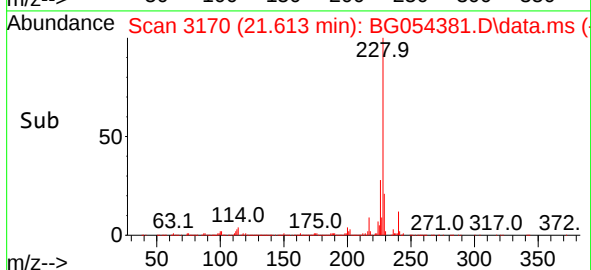
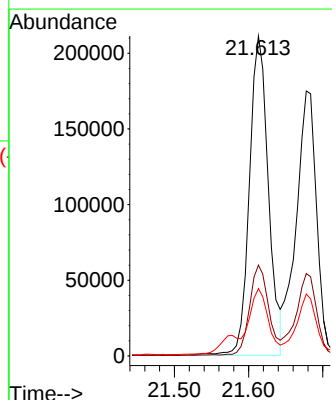
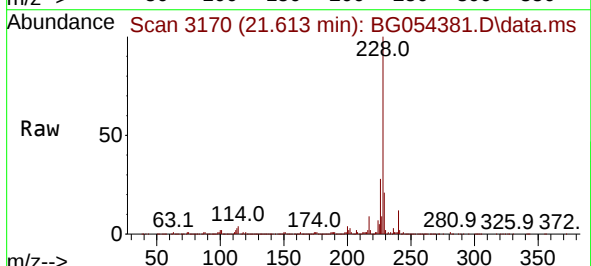
APPROVED

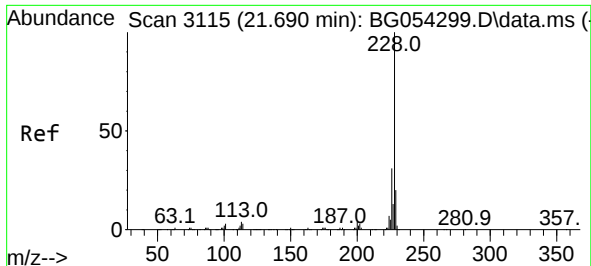
Reviewed By :Christian Giraldo 07/26/2022
 Supervised By :Jagrut Upadhyay 07/26/2022



#81
 Benzo(a)anthracene
 Concen: 26.489 ng
 RT: 21.613 min Scan# 3170
 Delta R.T. -0.006 min
 Lab File: BG054381.D
 Acq: 25 Jul 2022 15:51

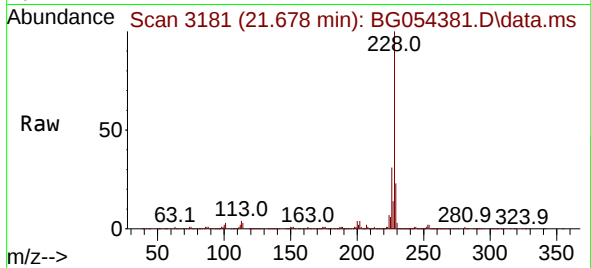
Tgt Ion:228 Resp: 374579
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.6 32.4
 229 21.0 16.2 24.2





#83
Chrysene
Concen: 25.132 ng m
RT: 21.678 min Scan# 3115
Delta R.T. -0.012 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

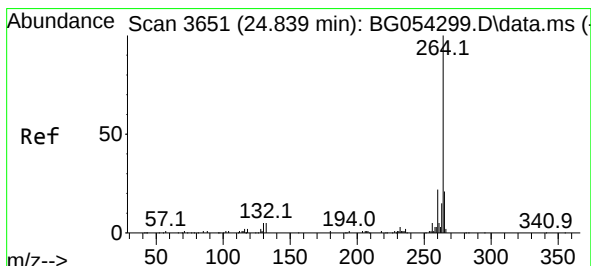
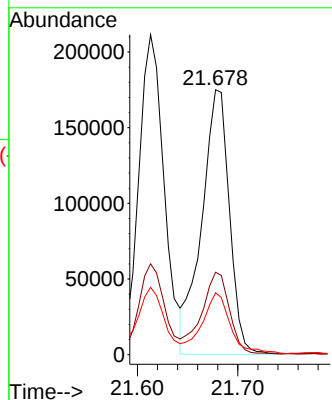
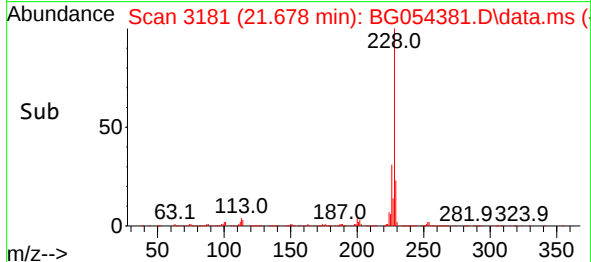
Instrument :
BNA_G
ClientSampleId :
ENV-DE-3(0-5)DL



Tgt Ion:228 Resp: 335764
Ion Ratio Lower Upper
228 100
226 31.1 23.4 35.2
229 23.4 15.5 23.3

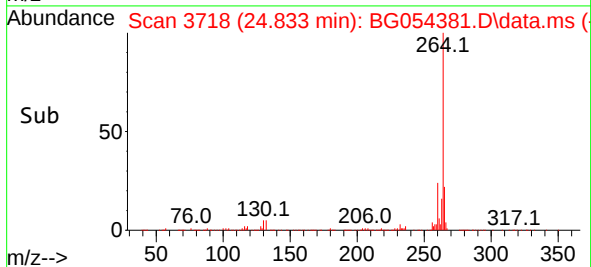
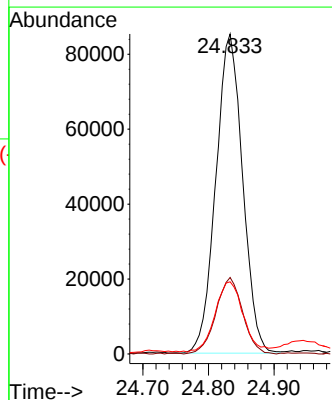
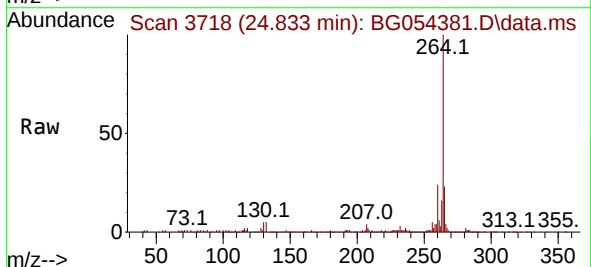
Manual Integrations
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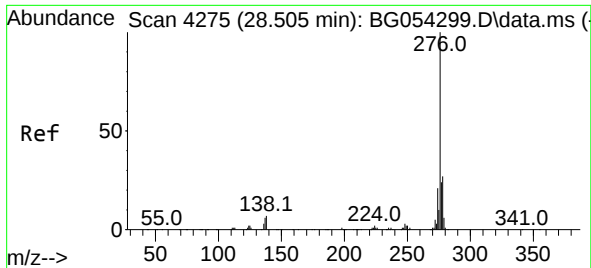
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.833 min Scan# 3718
Delta R.T. -0.006 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

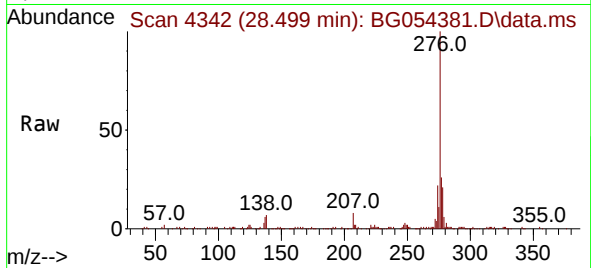
Tgt Ion:264 Resp: 240973
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.6
265 22.5 17.4 26.2





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 11.673 ng
 RT: 28.499 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: BG054381.D
 Acq: 25 Jul 2022 15:51

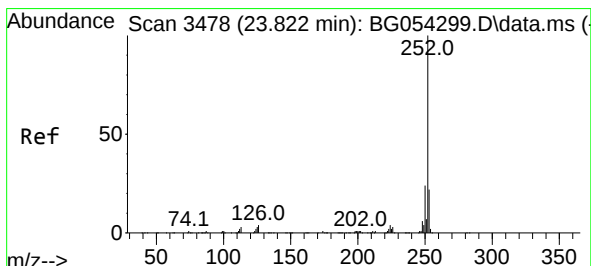
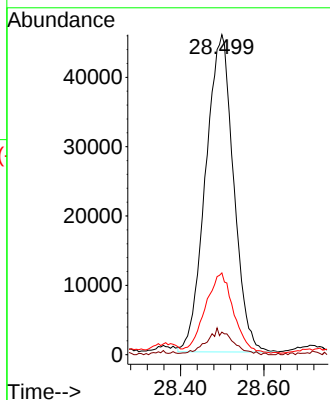
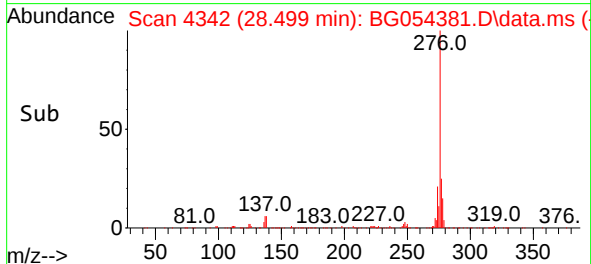
Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-3(0-5)DL



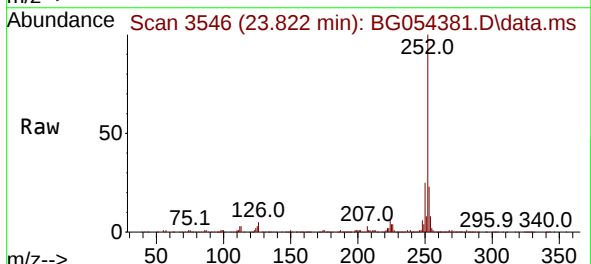
Tgt Ion:276 Resp: 21398
 Ion Ratio Lower Upper
 276 100
 138 7.6 5.0 7.4
 277 25.5 20.3 30.5

Manual Integrations
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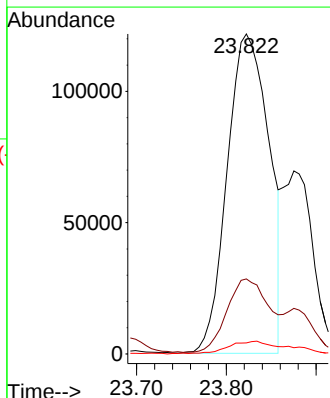
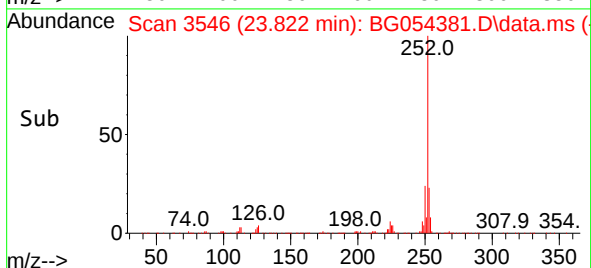
Reviewed By :Christian Giraldo 07/26/2022
 Supervised By :Jagrut Upadhyay 07/26/2022

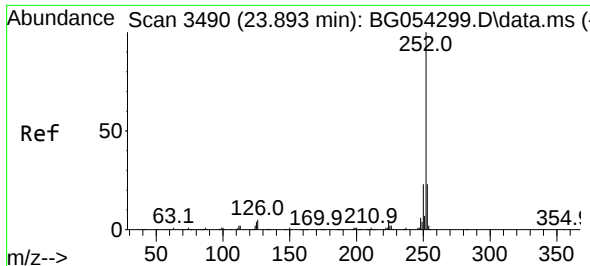


#88
 Benzo(b)fluoranthene
 Concen: 27.717 ng m
 RT: 23.822 min Scan# 3546
 Delta R.T. -0.000 min
 Lab File: BG054381.D
 Acq: 25 Jul 2022 15:51



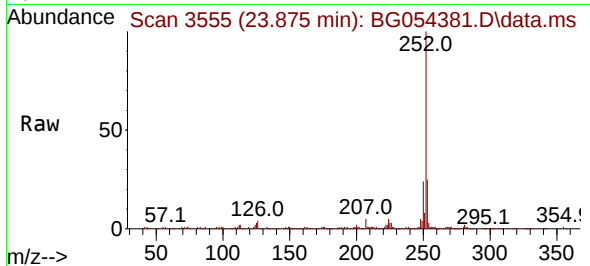
Tgt Ion:252 Resp: 394985
 Ion Ratio Lower Upper
 252 100
 253 23.4 18.0 27.0
 125 3.5 4.6 6.8





#89
Benzo(k)fluoranthene
Concen: 11.283 ng m
RT: 23.875 min Scan# 31
Delta R.T. -0.018 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

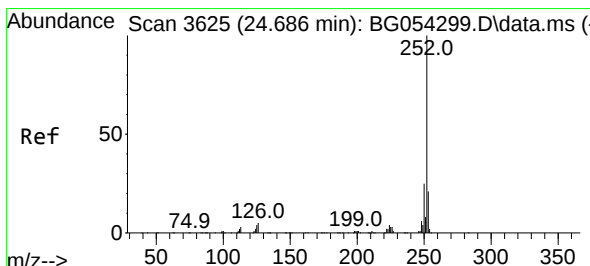
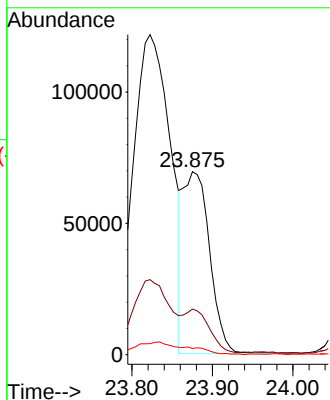
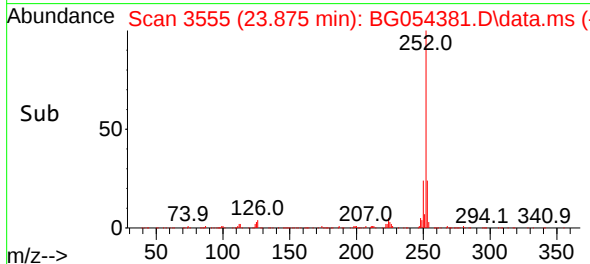
Instrument :
BNA_G
ClientSampleId :
ENV-DE-3(0-5)DL



Tgt Ion:252 Resp: 16002
Ion Ratio Lower Upper
252 100
253 24.9 18.4 27.6
125 3.4 4.8 7.2

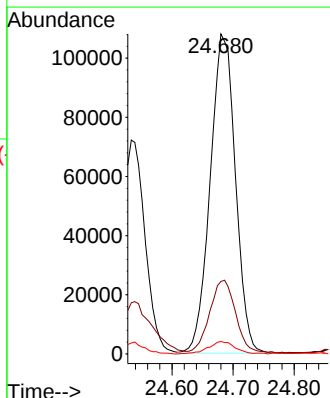
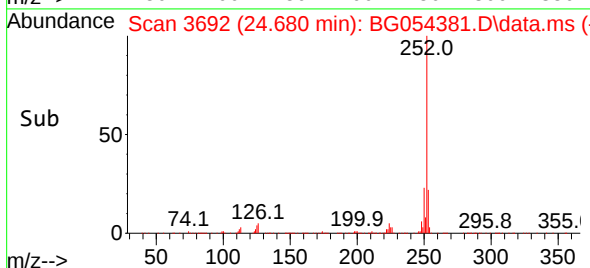
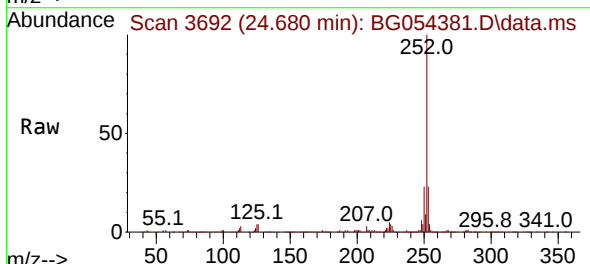
Manual Integrations
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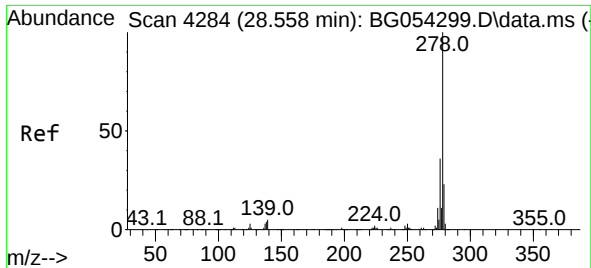
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#90
Benzo(a)pyrene
Concen: 25.469 ng m
RT: 24.680 min Scan# 3692
Delta R.T. -0.006 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

Tgt Ion:252 Resp: 309965
Ion Ratio Lower Upper
252 100
253 22.6 17.8 26.8
125 3.9 4.3 6.5





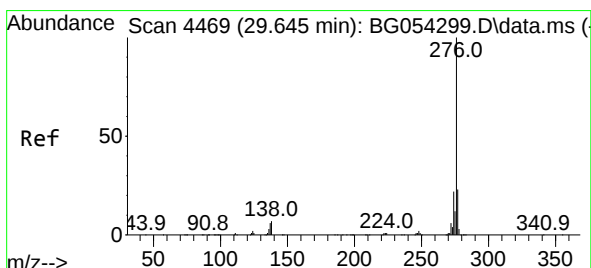
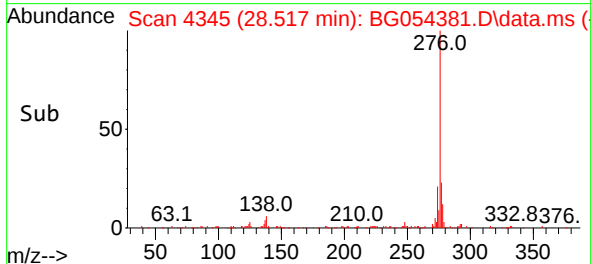
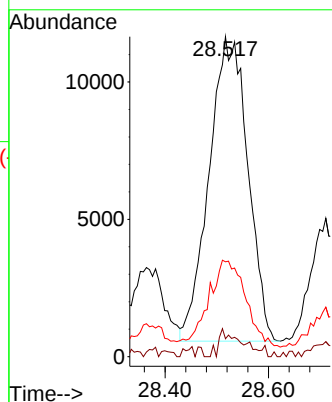
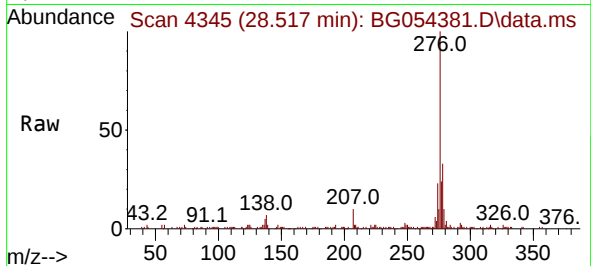
#91
Dibenzo(a,h)anthracene
Concen: 3.821 ng
RT: 28.517 min Scan# 41
Delta R.T. -0.041 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

Instrument :
BNA_G
ClientSampleId :
ENV-DE-3(0-5)DL

Tgt Ion:278 Resp: 57599
Ion Ratio Lower Upper
278 100
139 5.6 7.2 10.8
279 29.6 18.6 27.8

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#92
Benzo(g,h,i)perylene
Concen: 13.350 ng
RT: 29.639 min Scan# 4536
Delta R.T. -0.006 min
Lab File: BG054381.D
Acq: 25 Jul 2022 15:51

Tgt Ion:276 Resp: 198622
Ion Ratio Lower Upper
276 100
277 24.7 17.3 25.9
138 7.1 9.6 14.4

