

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032223\
 Data File : BM039103.D
 Acq On : 22 Mar 2023 22:00
 Operator : CG/JU
 Sample : 01932-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CE-81-031423

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 03/23/2023
 Supervised By :Jagrut Upadhyay 03/23/2023

Quant Time: Mar 23 04:27:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 22 03:36:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.963	152	321290	20.000	ng	0.00
21) Naphthalene-d8	10.775	136	1294948	20.000	ng	0.00
39) Acenaphthene-d10	14.604	164	740998	20.000	ng	0.00
64) Phenanthrene-d10	17.351	188	1490115	20.000	ng	0.00
76) Chrysene-d12	21.527	240	1377344	20.000	ng	0.00
86) Perylene-d12	23.956	264	1571734	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1877090	88.762	ng	0.00
7) Phenol-d6	7.128	99	2416373	87.969	ng	0.00
23) Nitrobenzene-d5	9.134	82	1398296	53.041	ng	0.00
42) 2,4,6-Tribromophenol	16.092	330	719701	83.958	ng	0.00
45) 2-Fluorobiphenyl	13.233	172	2775095	48.753	ng	0.00
79) Terphenyl-d14	19.968	244	3581398	47.541	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.392	178	202445	2.315	ng	99
72) Anthracene	17.480	178	706391	8.099	ng	98
73) Carbazole	17.751	167	179048	2.249	ng	98
75) Fluoranthene	19.404	202	257799	2.792	ng	100
78) Pyrene	19.762	202	272714	2.636	ng	99
81) Benzo(a)anthracene	21.509	228	247619	2.496	ng	98
83) Chrysene	21.562	228	399488	4.141	ng	99
88) Benzo(b)fluoranthene	23.215	252	256231m	2.552	ng	

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

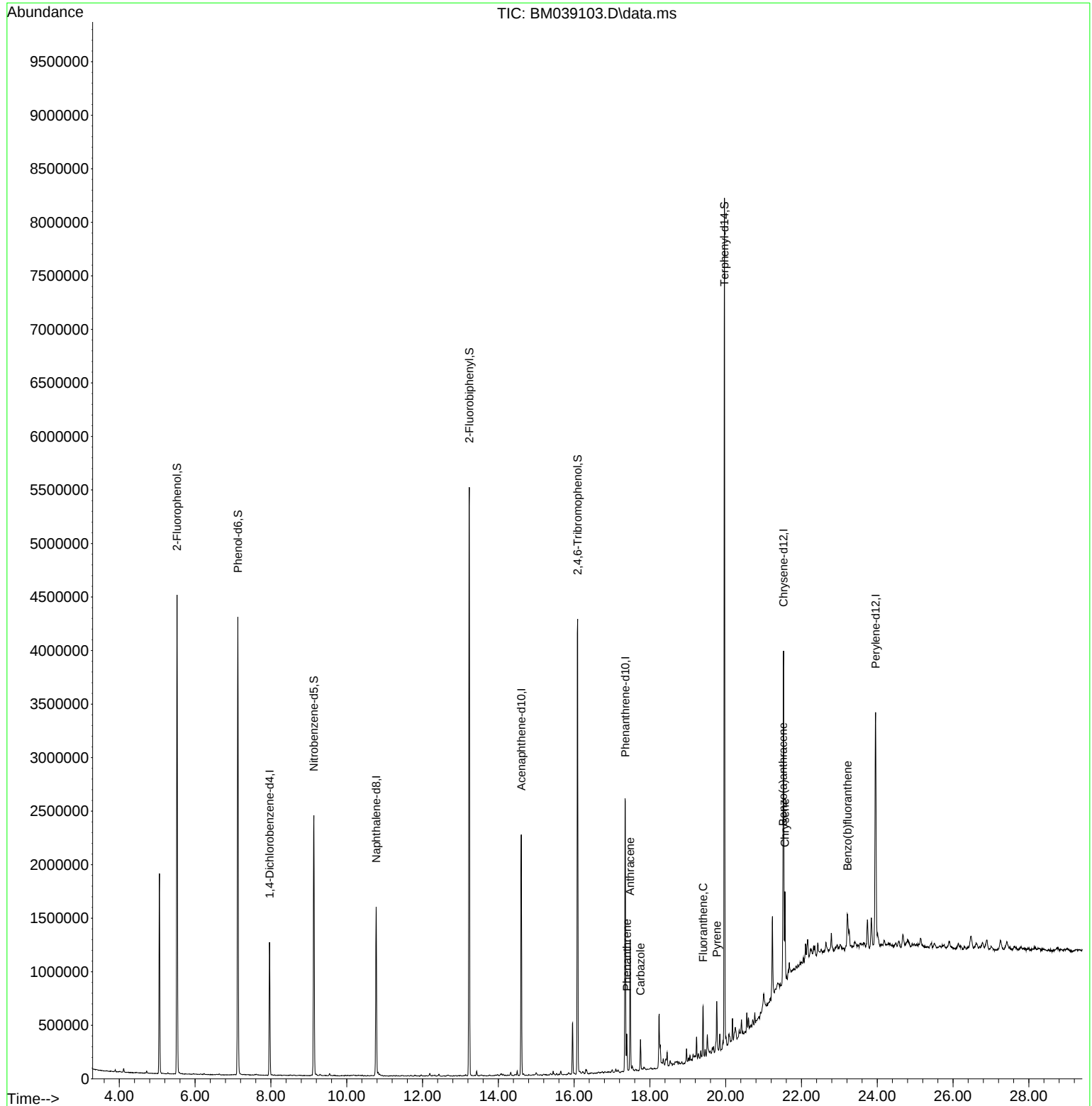
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032223\
Data File : BM039103.D
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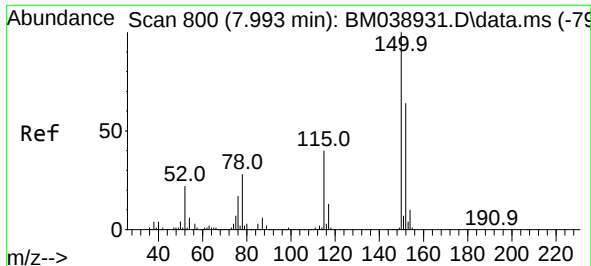
Instrument :
BNA_M
ClientSampleId :
CE-81-031423

Quant Time: Mar 23 04:27:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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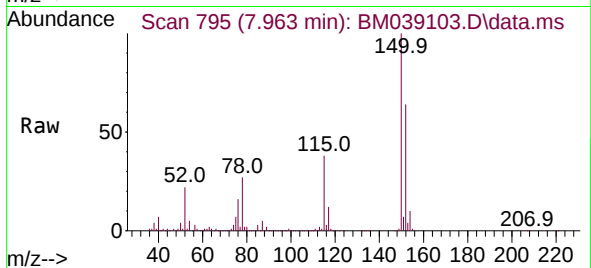
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.963 min Scan# 79
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

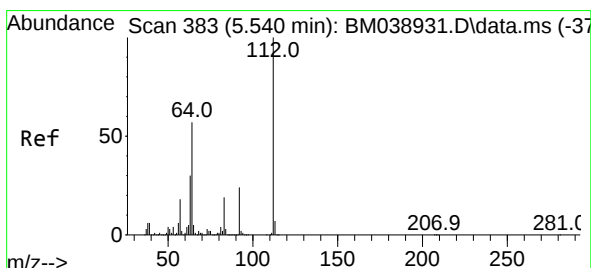
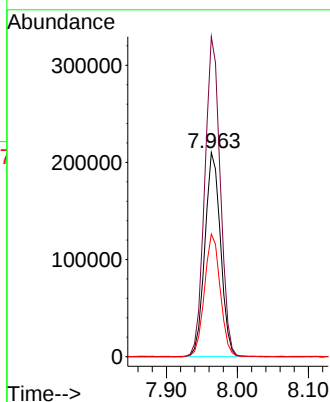
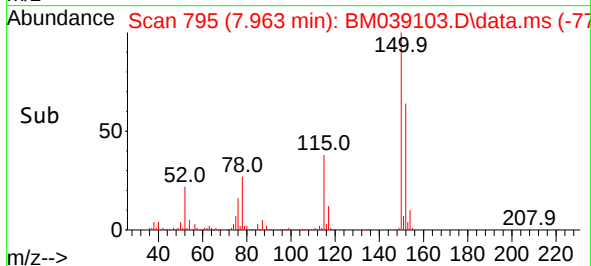
Instrument :
BNA_M
ClientSampleId :
CE-81-031423



Tgt Ion:152 Resp: 321290
Ion Ratio Lower Upper
152 100
150 156.8 125.1 187.7
115 60.1 49.6 74.4

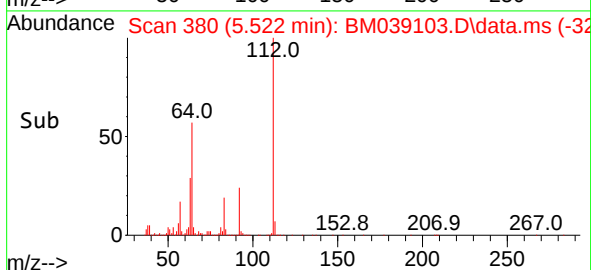
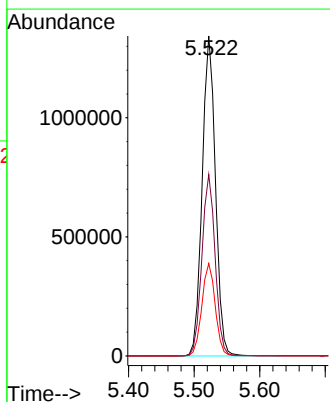
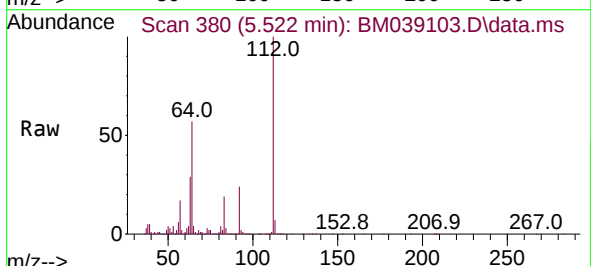
Manual Integrations
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#5
2-Fluorophenol
Concen: 88.762 ng
RT: 5.522 min Scan# 380
Delta R.T. 0.000 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

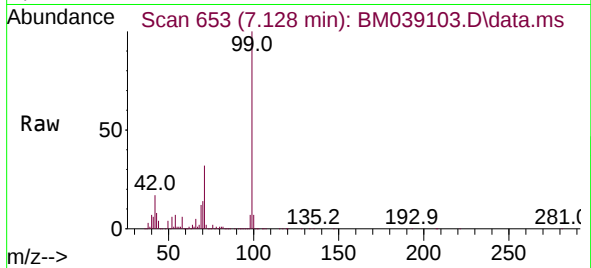
Tgt Ion:112 Resp: 1877090
Ion Ratio Lower Upper
112 100
64 56.7 45.9 68.9
63 28.9 23.8 35.8





#7
Phenol-d6
Concen: 87.969 ng
RT: 7.128 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

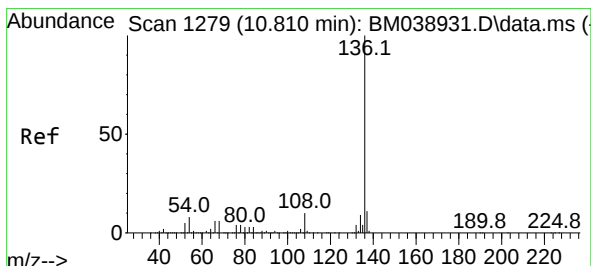
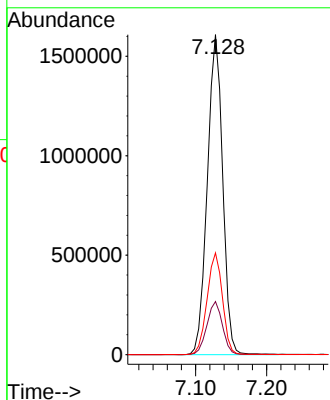
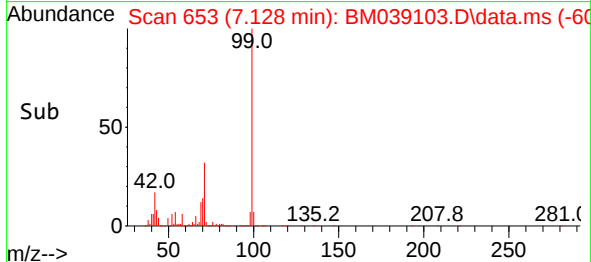
Instrument :
BNA_M
ClientSampleId :
CE-81-031423



Tgt Ion: 99 Resp: 2416373
Ion Ratio Lower Upper
99 100
42 16.6 13.5 20.3
71 31.8 25.6 38.4

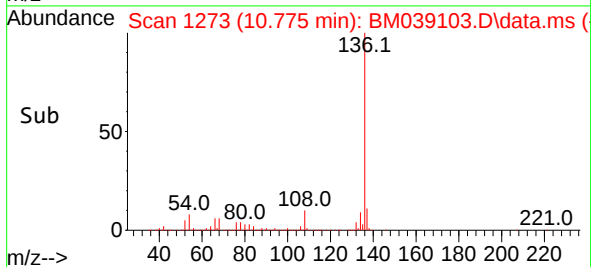
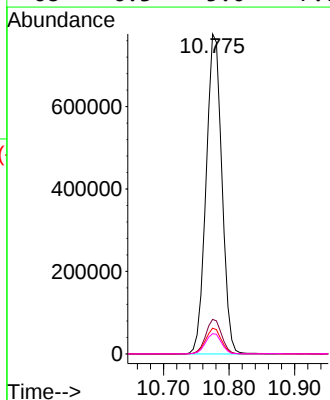
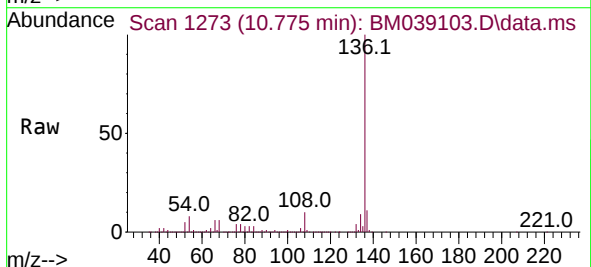
Manual Integrations
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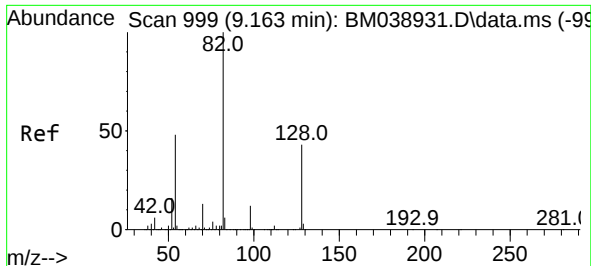
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

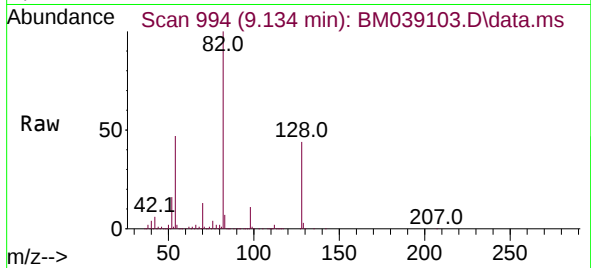
Tgt Ion:136 Resp: 1294948
Ion Ratio Lower Upper
136 100
137 10.8 8.7 13.1
54 8.0 6.3 9.5
68 6.3 5.0 7.6





#23
Nitrobenzene-d5
Concen: 53.041 ng
RT: 9.134 min Scan# 999
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

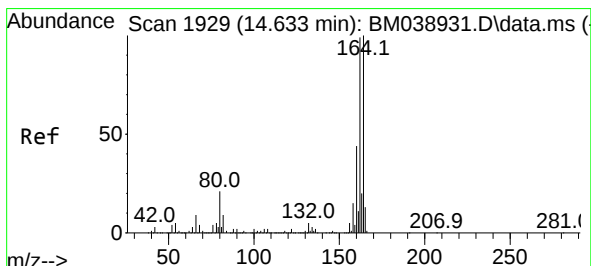
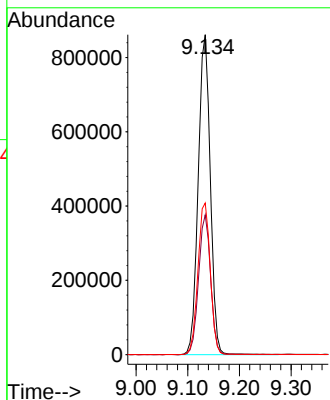
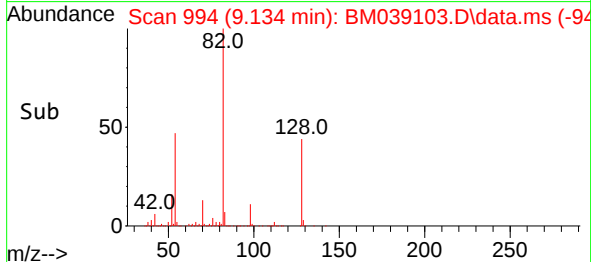
Instrument :
BNA_M
ClientSampleId :
CE-81-031423



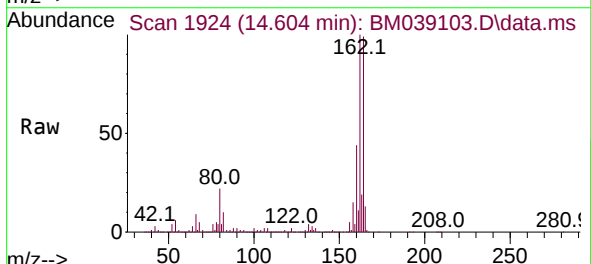
Tgt Ion: 82 Resp: 1398296
Ion Ratio Lower Upper
82 100
128 43.7 34.4 51.6
54 47.4 38.8 58.2

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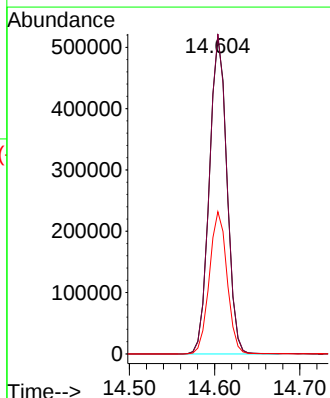
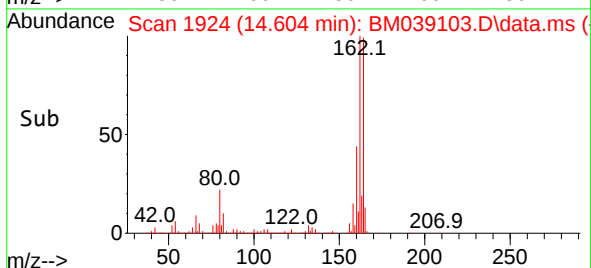
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023

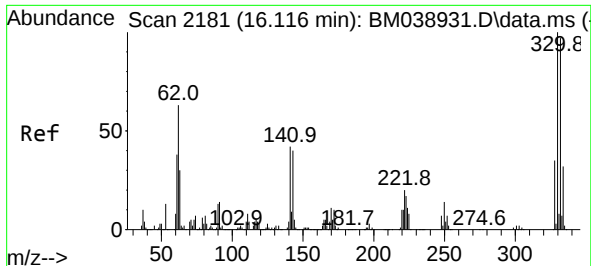


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.604 min Scan# 1924
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00



Tgt Ion:164 Resp: 740998
Ion Ratio Lower Upper
164 100
162 101.1 79.2 118.8
160 44.9 35.5 53.3





#42
2,4,6-Tribromophenol
Concen: 83.958 ng
RT: 16.092 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

Instrument :

BNA_M

ClientSampleId :

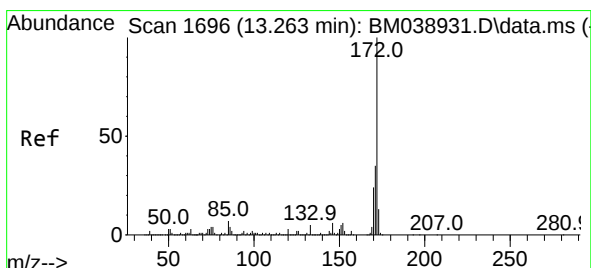
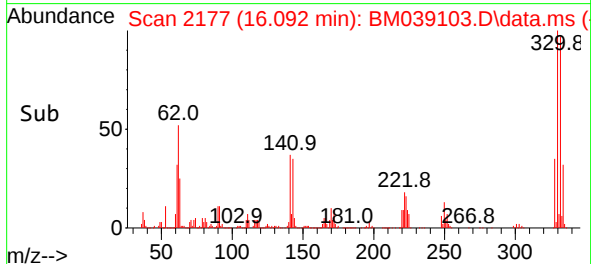
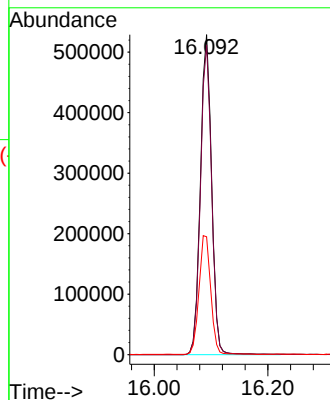
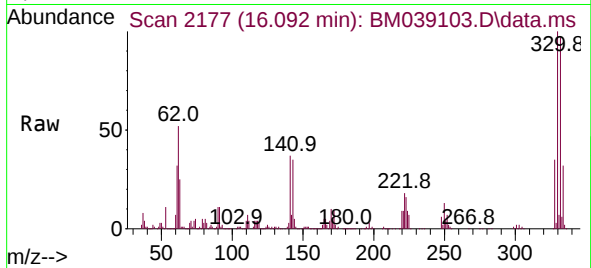
CE-81-031423

Tgt Ion:330 Resp: 719701
Ion Ratio Lower Upper
330 100
332 96.4 77.4 116.0
141 38.9 32.2 48.4

Manual Integrations

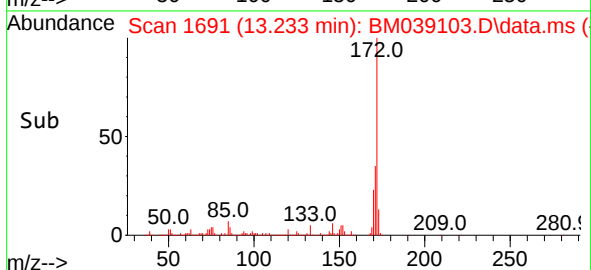
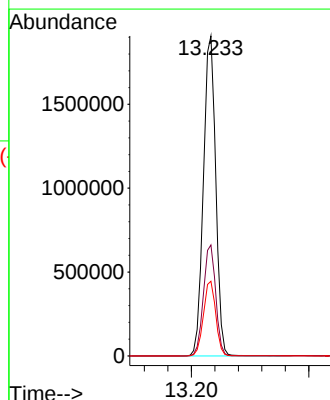
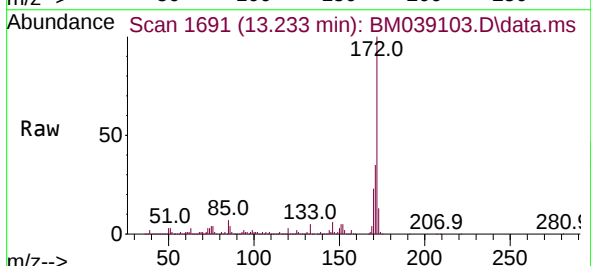
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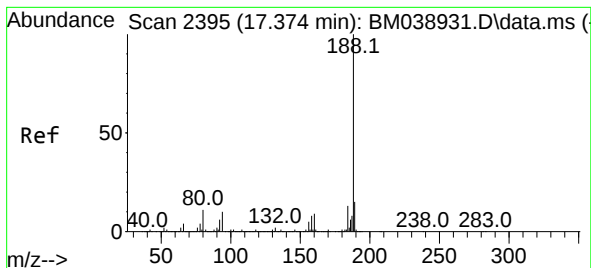
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#45
2-Fluorobiphenyl
Concen: 48.753 ng
RT: 13.233 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

Tgt Ion:172 Resp: 2775095
Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.2
170 23.3 19.1 28.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.351 min Scan# 2391

Delta R.T. 0.000 min

Lab File: BM039103.D

Acq: 22 Mar 2023 22:00

Instrument :

BNA_M

ClientSampleId :

CE-81-031423

Tgt Ion:188 Resp: 1490115

Ion Ratio Lower Upper

188 100

94 9.6 7.9 11.9

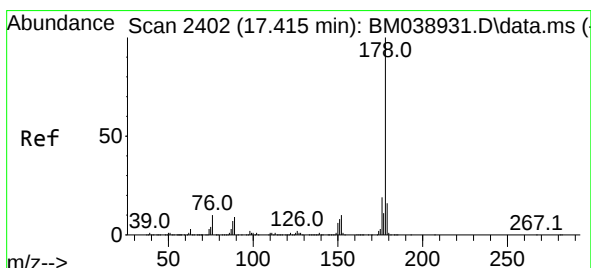
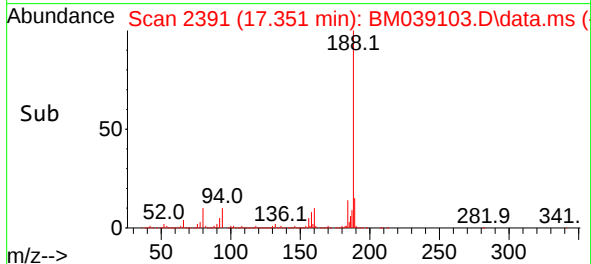
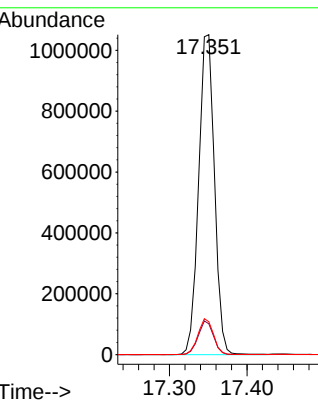
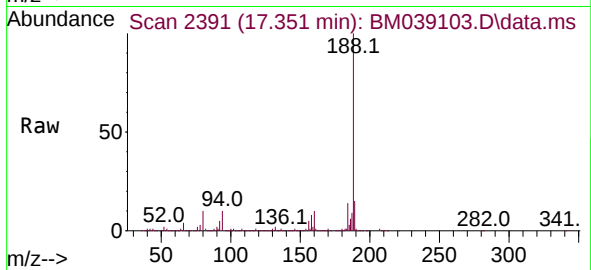
80 10.3 8.5 12.7

Manual Integrations

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Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#71

Phenanthrene

Concen: 2.315 ng

RT: 17.392 min Scan# 2398

Delta R.T. 0.000 min

Lab File: BM039103.D

Acq: 22 Mar 2023 22:00

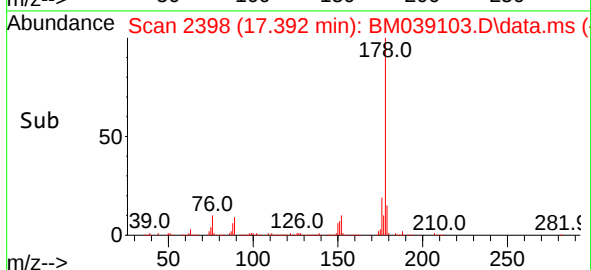
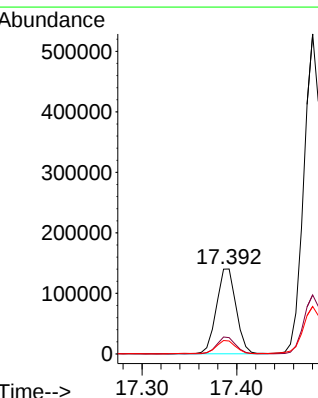
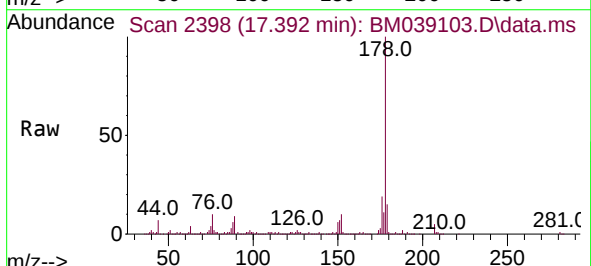
Tgt Ion:178 Resp: 202445

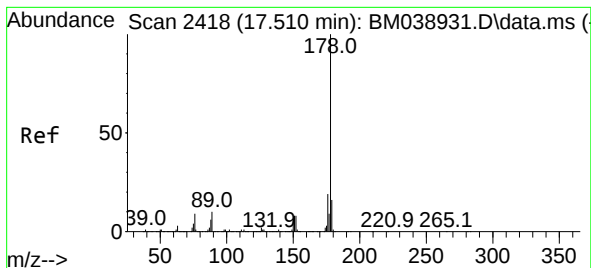
Ion Ratio Lower Upper

178 100

176 19.1 15.6 23.4

179 15.2 12.5 18.7





#72

Anthracene

Concen: 8.099 ng

RT: 17.480 min Scan# 2418

Delta R.T. -0.006 min

Lab File: BM039103.D

Acq: 22 Mar 2023 22:00

Instrument :

BNA_M

ClientSampleId :

CE-81-031423

Tgt Ion:178 Resp: 70639

Ion Ratio Lower Upper

178 100

176 18.4 15.3 22.9

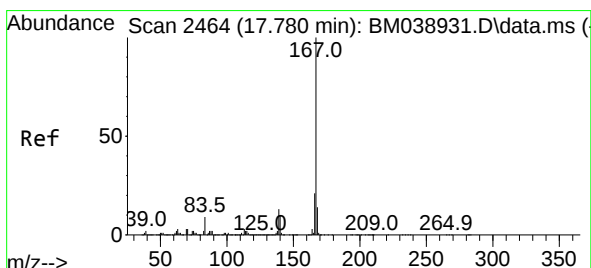
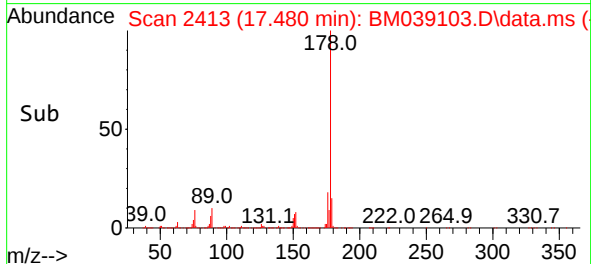
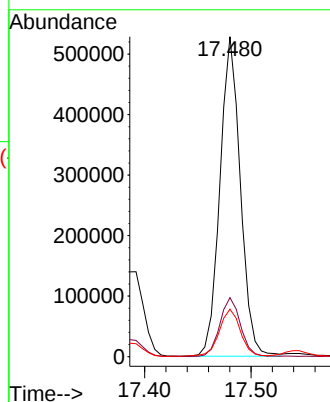
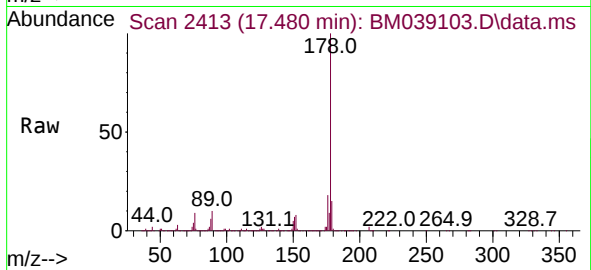
179 14.9 12.5 18.7

Manual Integrations

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Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#73

Carbazole

Concen: 2.249 ng

RT: 17.751 min Scan# 2459

Delta R.T. -0.006 min

Lab File: BM039103.D

Acq: 22 Mar 2023 22:00

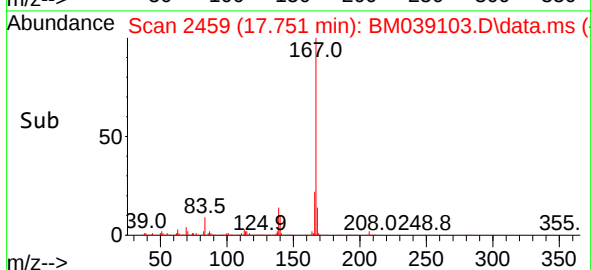
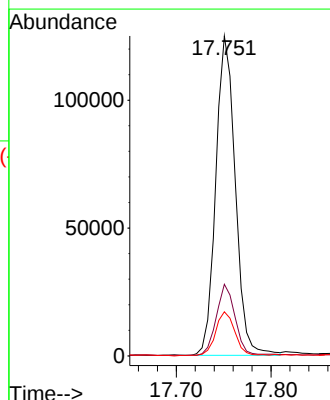
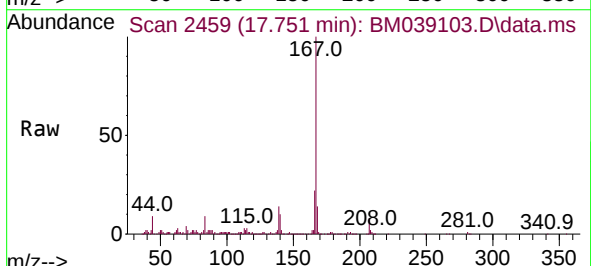
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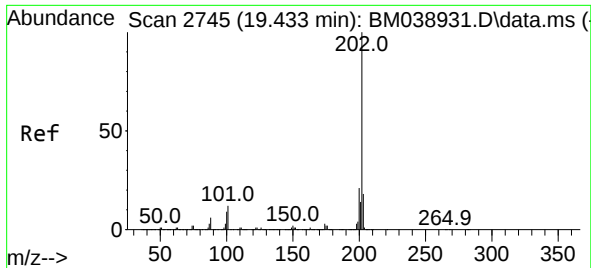
Ion Ratio Lower Upper

167 100

166 22.4 17.0 25.4

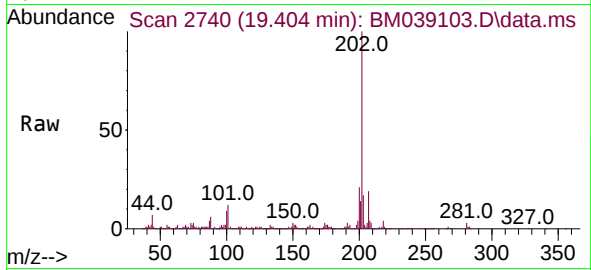
139 13.8 10.3 15.5





#75
Fluoranthene
Concen: 2.792 ng
RT: 19.404 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

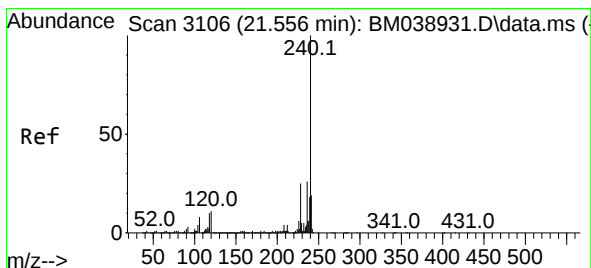
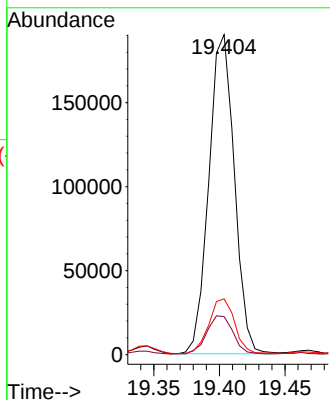
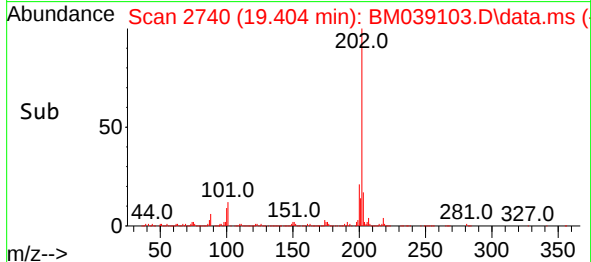
Instrument :
BNA_M
ClientSampleId :
CE-81-031423



Tgt Ion:202 Resp: 257799
Ion Ratio Lower Upper
202 100
101 11.9 0.0 31.7
203 17.4 0.0 37.6

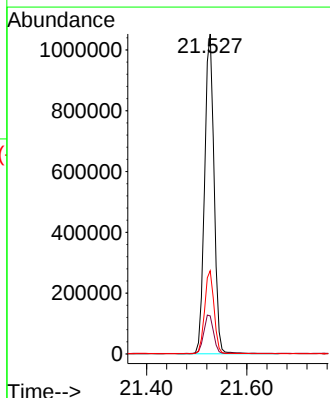
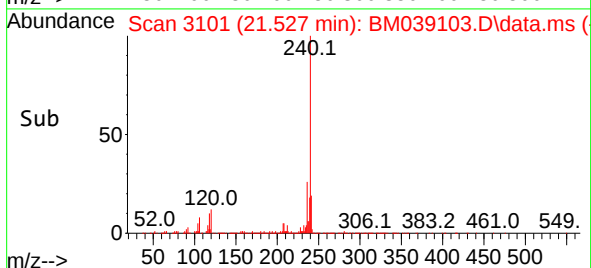
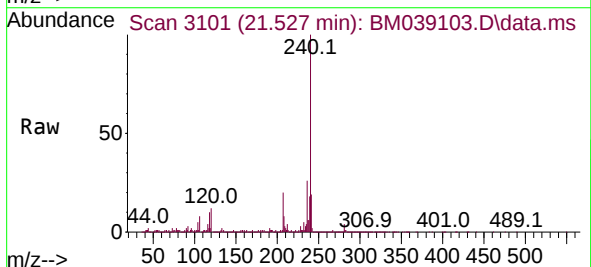
Manual Integrations
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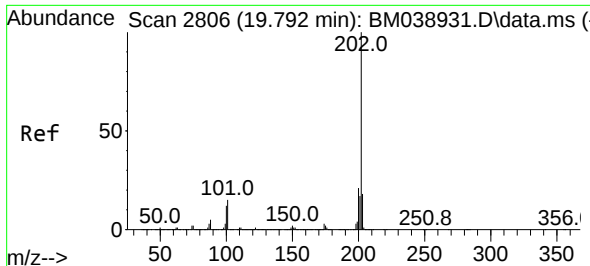
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.527 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

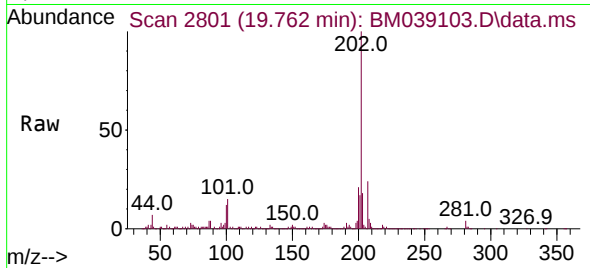
Tgt Ion:240 Resp: 1377344
Ion Ratio Lower Upper
240 100
120 11.9 9.2 13.8
236 26.0 20.8 31.2





#78
 Pyrene
 Concen: 2.636 ng
 RT: 19.762 min Scan# 2806
 Delta R.T. -0.006 min
 Lab File: BM039103.D
 Acq: 22 Mar 2023 22:00

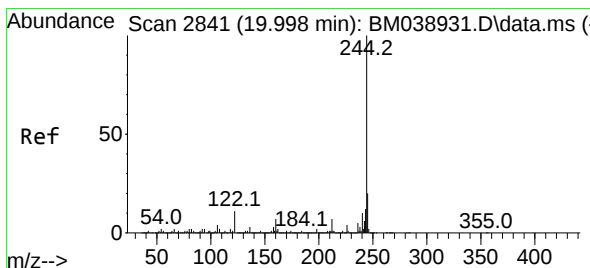
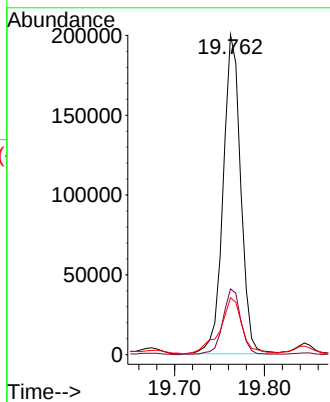
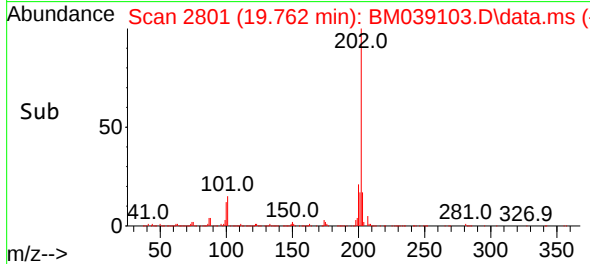
Instrument :
 BNA_M
 ClientSampleId :
 CE-81-031423



Tgt Ion:202 Resp: 272714
 Ion Ratio Lower Upper
 202 100
 200 20.5 17.1 25.7
 203 17.8 14.1 21.1

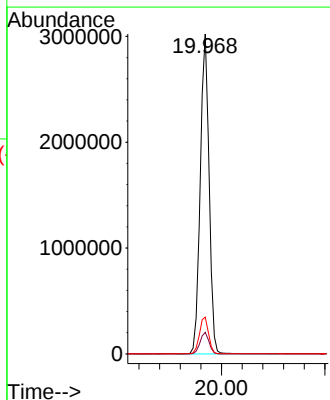
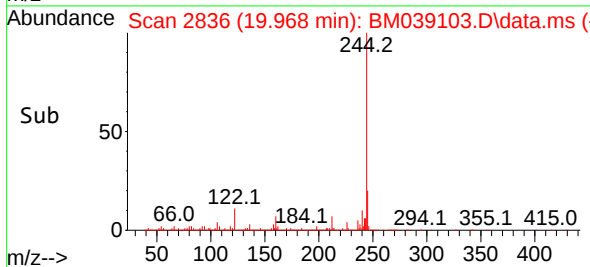
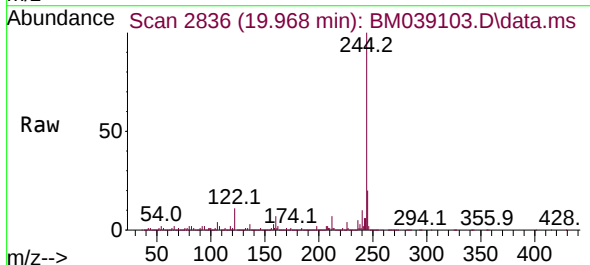
Manual Integrations
 APPROVED

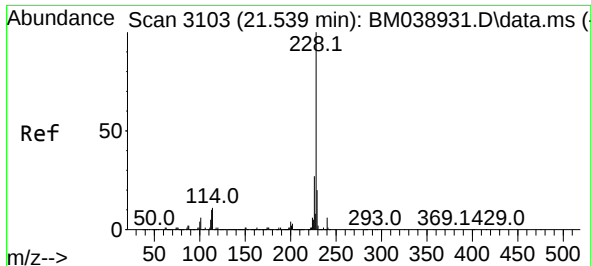
Reviewed By :Christian Giraldo 03/23/2023
 Supervised By :Jagrut Upadhyay 03/23/2023



#79
 Terphenyl-d14
 Concen: 47.541 ng
 RT: 19.968 min Scan# 2836
 Delta R.T. 0.000 min
 Lab File: BM039103.D
 Acq: 22 Mar 2023 22:00

Tgt Ion:244 Resp: 3581398
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.5 8.3
 122 11.5 9.0 13.4





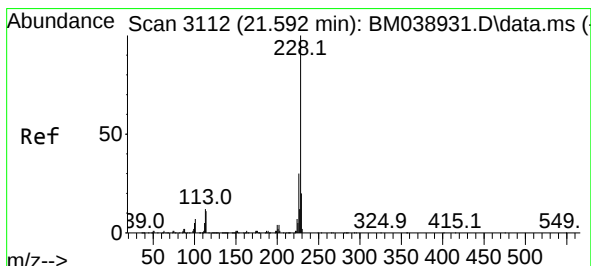
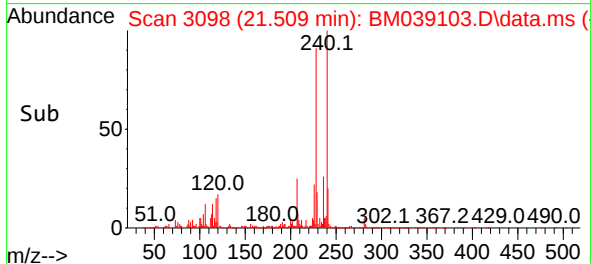
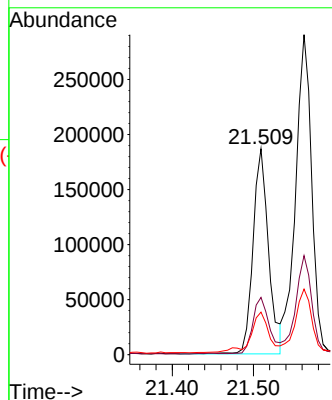
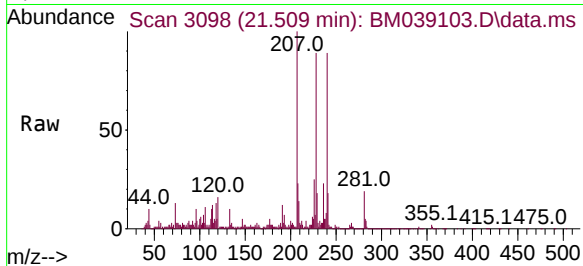
#81
Benzo(a)anthracene
Concen: 2.496 ng
RT: 21.509 min Scan# 30
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

Instrument :
BNA_M
ClientSampleId :
CE-81-031423

Tgt Ion:228 Resp: 247619
Ion Ratio Lower Upper
228 100
226 27.8 21.4 32.2
229 20.6 15.7 23.5

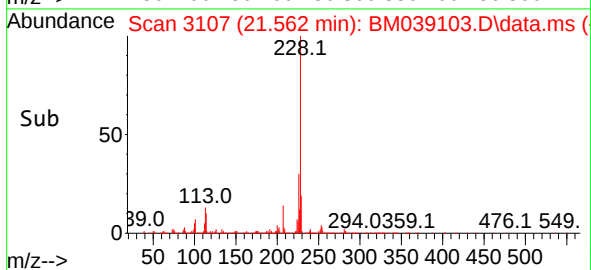
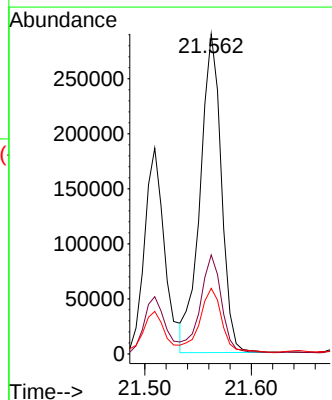
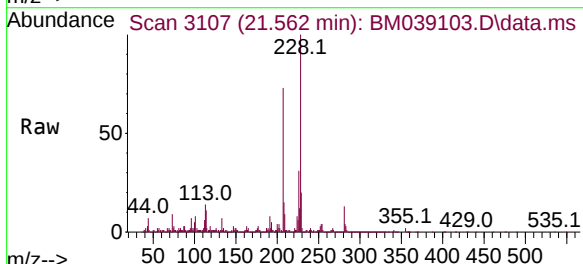
Manual Integrations
APPROVED

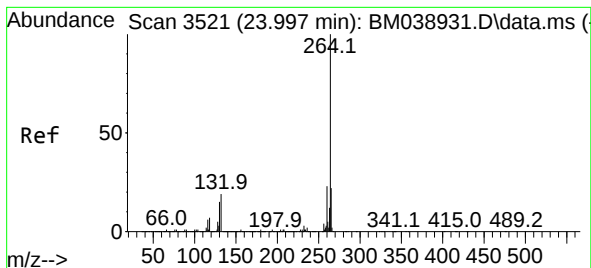
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#83
Chrysene
Concen: 4.141 ng
RT: 21.562 min Scan# 3107
Delta R.T. -0.006 min
Lab File: BM039103.D
Acq: 22 Mar 2023 22:00

Tgt Ion:228 Resp: 399488
Ion Ratio Lower Upper
228 100
226 30.9 24.0 36.0
229 20.5 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.956 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM039103.D

Acq: 22 Mar 2023 22:00

Instrument :

BNA_M

ClientSampleId :

CE-81-031423

Tgt Ion:264 Resp: 1571734

Ion Ratio Lower Upper

264 100

260 24.0 18.7 28.1

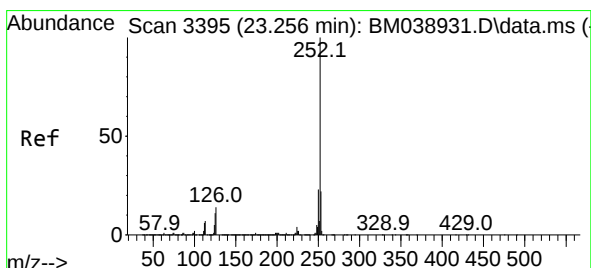
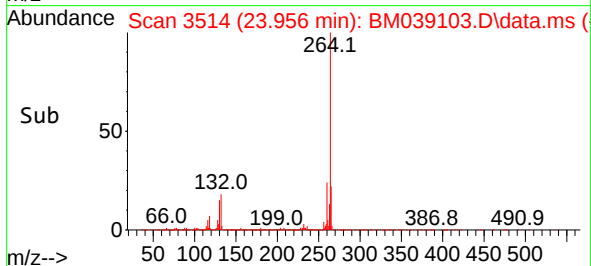
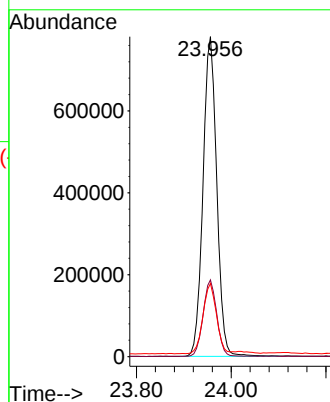
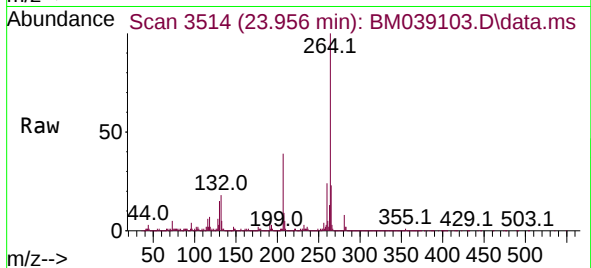
265 22.9 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#88

Benzo(b)fluoranthene

Concen: 2.552 ng m

RT: 23.215 min Scan# 3388

Delta R.T. -0.006 min

Lab File: BM039103.D

Acq: 22 Mar 2023 22:00

Tgt Ion:252 Resp: 256231

Ion Ratio Lower Upper

252 100

253 24.1 17.6 26.4

125 14.5 8.8 13.2#

