

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032423\
 Data File : BM039152.D
 Acq On : 24 Mar 2023 21:37
 Operator : CG/JU
 Sample : 02045-06DL 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC1-20230322DL

Manual Integrations
 APPROVED

Reviewed By :Christian
 Giraldo

03/27/2023
 Supervised By :Jagrut
 Upadhyay

Quant Time: Mar 25 01:09:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 24 15:04:20 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.945	152	252439	20.000	ng	0.00
21) Naphthalene-d8	10.763	136	1018890	20.000	ng	0.00
39) Acenaphthene-d10	14.592	164	593623	20.000	ng	0.00
64) Phenanthrene-d10	17.333	188	1251610	20.000	ng	-0.01
76) Chrysene-d12	21.515	240	1148668	20.000	ng	-0.01
86) Perylene-d12	23.944	264	1259102	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	260507	15.678	ng	0.00
7) Phenol-d6	7.110	99	318459	14.756	ng	0.00
23) Nitrobenzene-d5	9.116	82	193276	9.318	ng	0.00
42) 2,4,6-Tribromophenol	16.080	330	104459	15.211	ng	0.00
45) 2-Fluorobiphenyl	13.216	172	381953	8.376	ng	0.00
79) Terphenyl-d14	19.956	244	573169	9.123	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	10.810	128	295994	5.095	ng	99
52) Acenaphthene	14.657	154	131868	3.552	ng	100
55) Dibenzofuran	14.986	168	176322	3.035	ng	99
58) Fluorene	15.633	166	234980	5.164	ng	99
71) Phenanthrene	17.380	178	2337807	31.825	ng	100
72) Anthracene	17.468	178	527127	7.196	ng	99
73) Carbazole	17.739	167	165575	2.477	ng	99
75) Fluoranthene	19.392	202	2704080	34.864	ng	98
78) Pyrene	19.756	202	2486971	28.826	ng	100
81) Benzo(a)anthracene	21.497	228	1156429	13.980	ng	99
83) Chrysene	21.556	228	1075044m	13.362	ng	
87) Indeno(1,2,3-cd)pyrene	26.456	276	594690	6.207	ng	96
88) Benzo(b)fluoranthene	23.203	252	1283680	15.958	ng	99
89) Benzo(k)fluoranthene	23.244	252	361120m	4.314	ng	
90) Benzo(a)pyrene	23.833	252	963328	12.443	ng	98
92) Benzo(g,h,i)perylene	27.232	276	585011	7.370	ng	99

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

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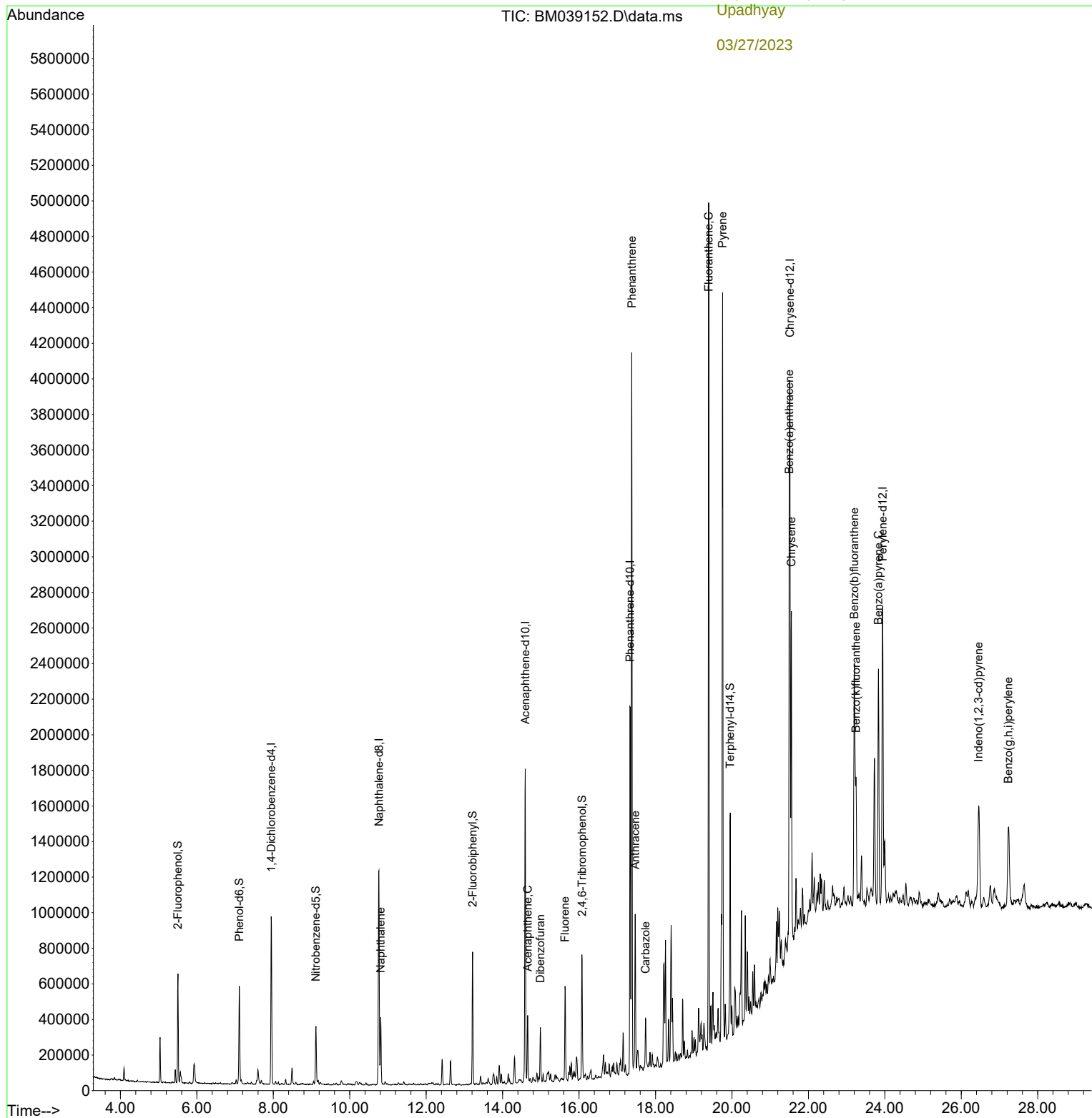
Quant Time: Mar 25 01:09:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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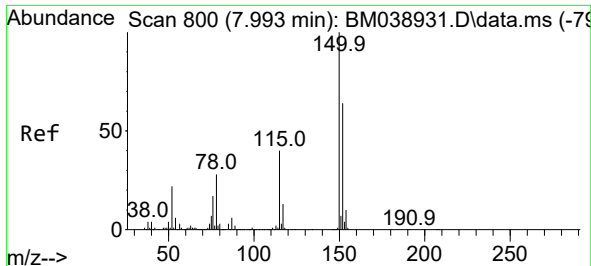
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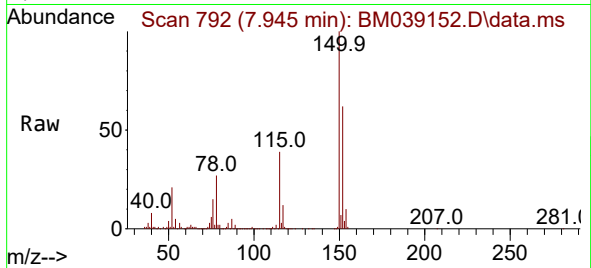
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.945 min Scan# 79
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
WC1-20230322DL



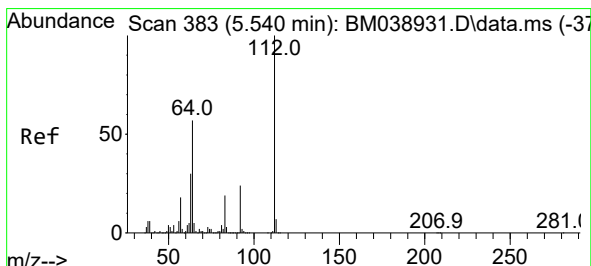
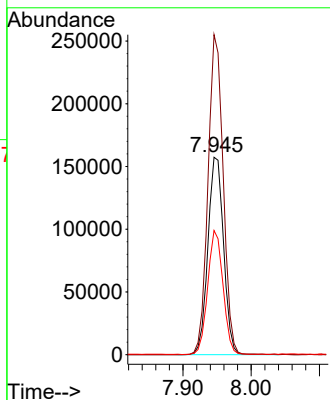
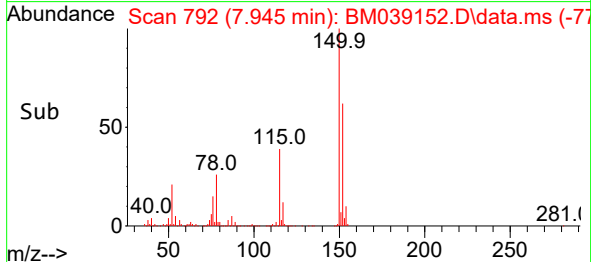
Tgt Ion:152 Resp: 252439
Ion Ratio Lower Upper
152 100
150 162.1 125.1 187.7
115 62.9 49.6 74.4

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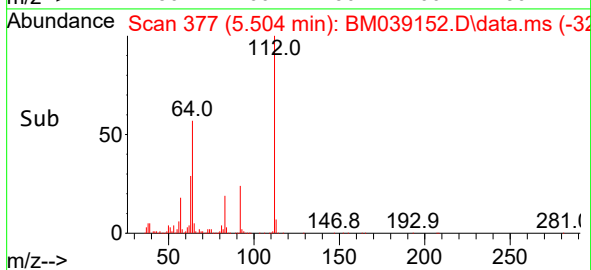
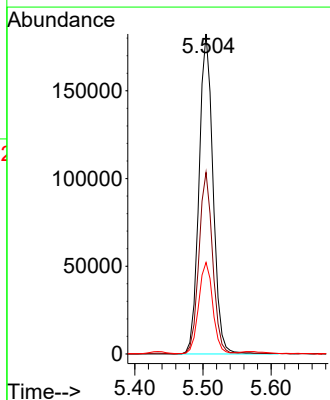
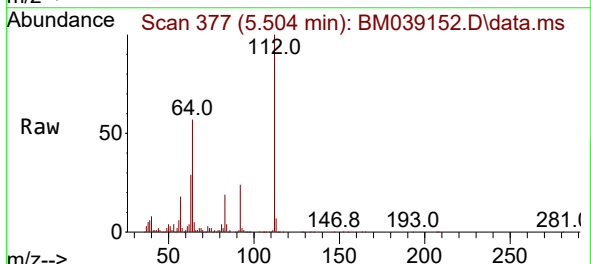
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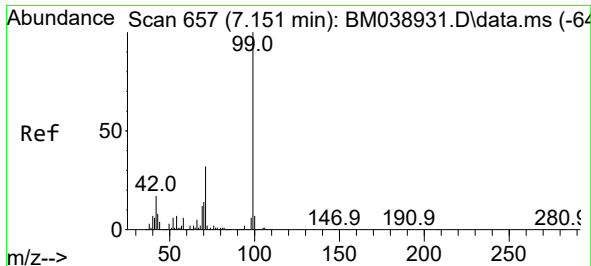
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#5
2-Fluorophenol
Concen: 15.678 ng
RT: 5.504 min Scan# 377
Delta R.T. 0.000 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

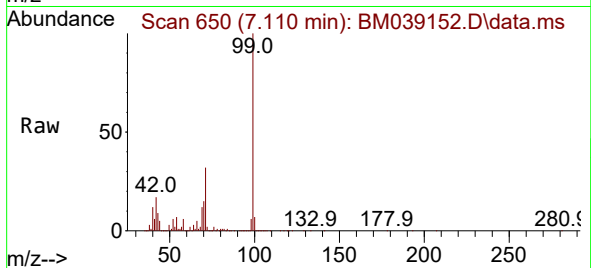
Tgt Ion:112 Resp: 260507
Ion Ratio Lower Upper
112 100
64 56.8 45.9 68.9
63 28.6 23.8 35.8





#7
Phenol-d6
Concen: 14.756 ng
RT: 7.110 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
WC1-20230322DL



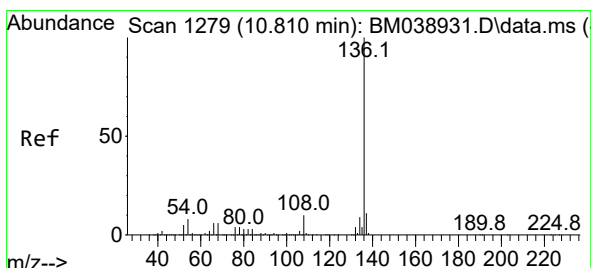
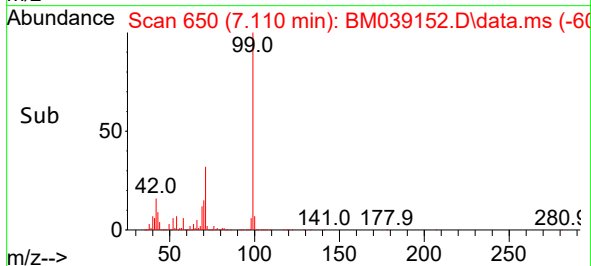
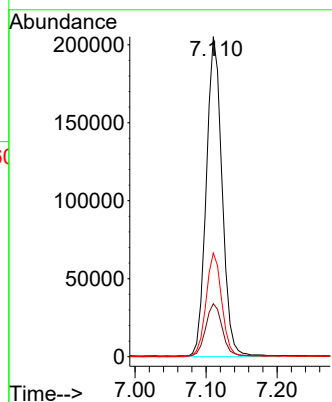
Tgt Ion: 99 Resp: 31845
Ion Ratio Lower Upper
99 100
42 16.5 13.5 20.3
71 32.4 25.6 38.4

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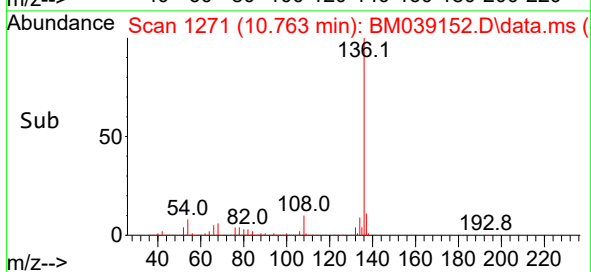
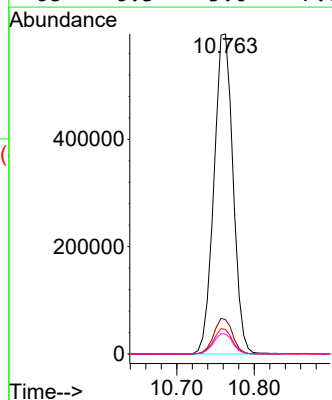
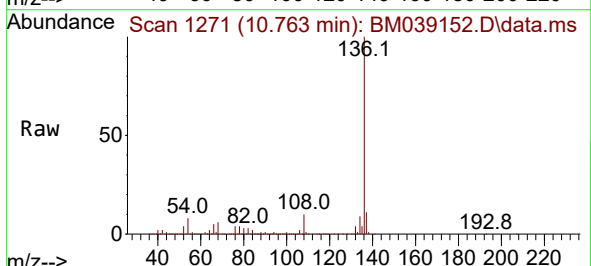
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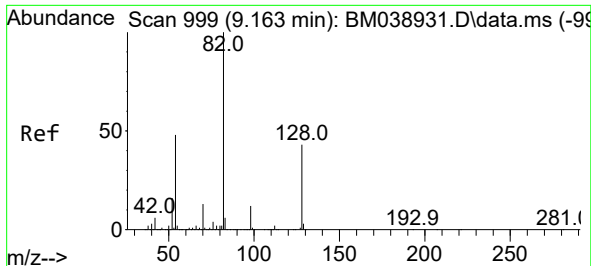
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.763 min Scan# 1271
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Tgt Ion:136 Resp: 1018890
Ion Ratio Lower Upper
136 100
137 10.8 8.7 13.1
54 7.7 6.3 9.5
68 6.3 5.0 7.6





#23
Nitrobenzene-d5
Concen: 9.318 ng
RT: 9.116 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
WC1-20230322DL

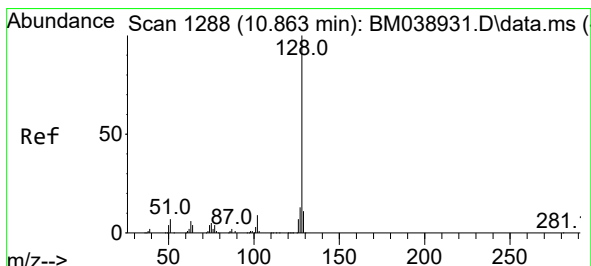
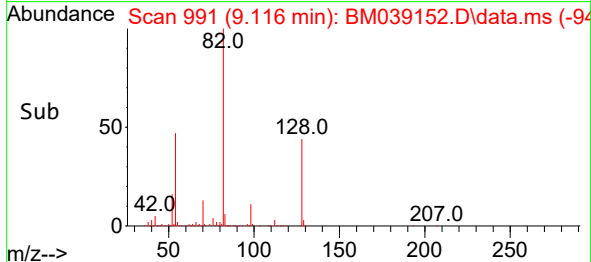
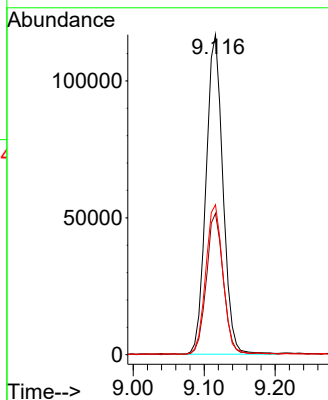
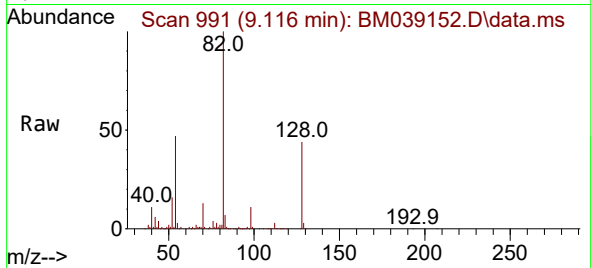
Tgt Ion: 82 Resp: 193270
Ion Ratio Lower Upper
82 100
128 44.1 34.4 51.6
54 46.8 38.8 58.2

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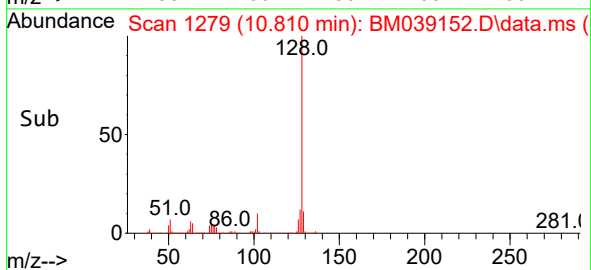
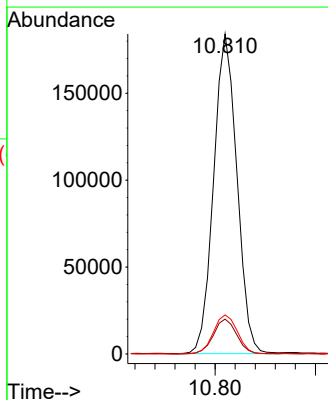
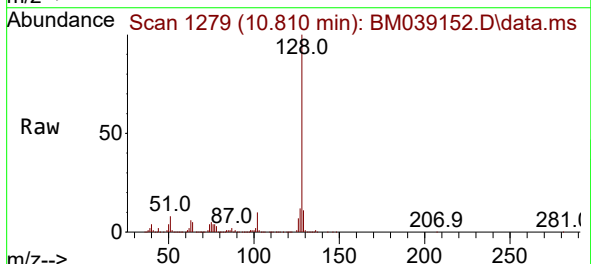
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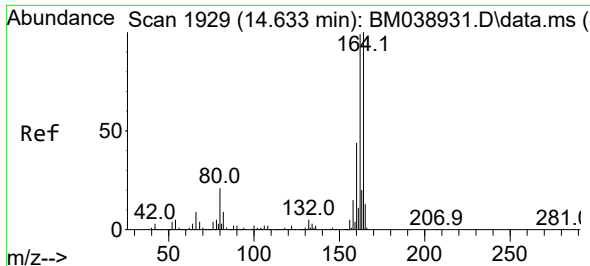
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#31
Naphthalene
Concen: 5.095 ng
RT: 10.810 min Scan# 1279
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

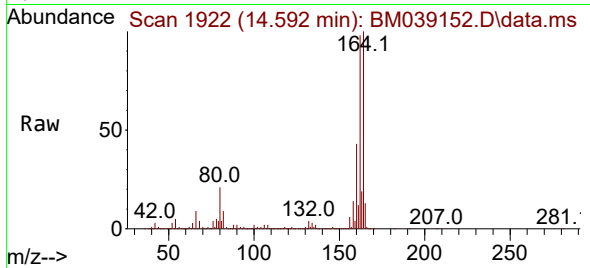
Tgt Ion:128 Resp: 295994
Ion Ratio Lower Upper
128 100
129 10.9 8.6 13.0
127 12.2 10.2 15.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.592 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
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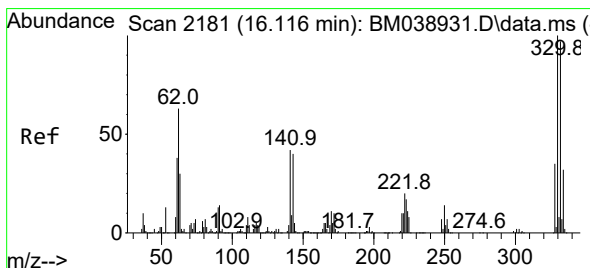
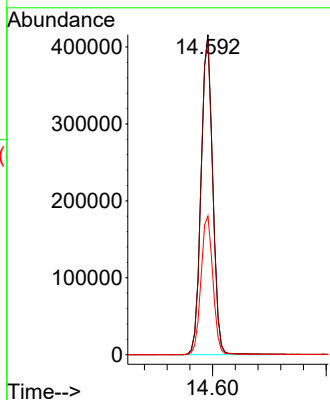
Tgt Ion:164 Resp: 59362
Ion Ratio Lower Upper
164 100
162 97.9 79.2 118.8
160 43.4 35.5 53.3

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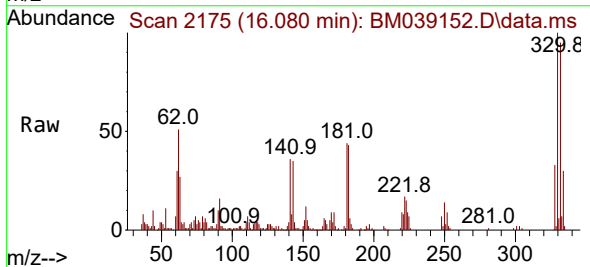
Reviewed By :Christian
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Supervised By :Jagrut
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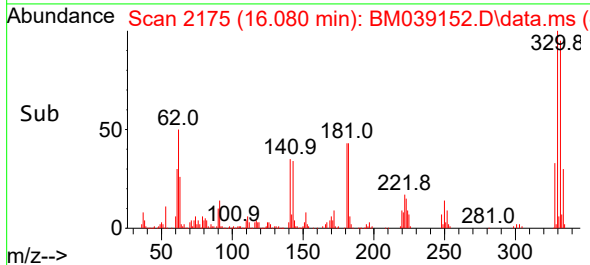
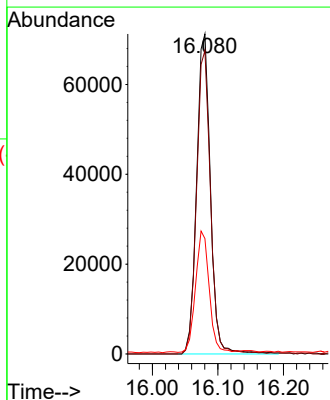
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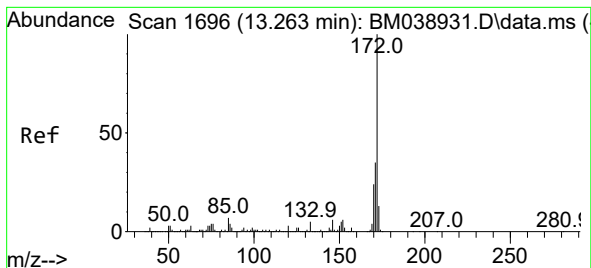


#42
2,4,6-Tribromophenol
Concen: 15.211 ng
RT: 16.080 min Scan# 2175
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37



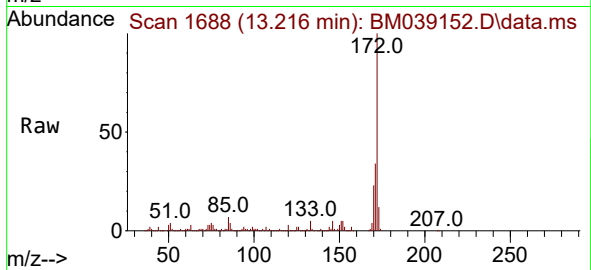
Tgt Ion:330 Resp: 104459
Ion Ratio Lower Upper
330 100
332 95.3 77.4 116.0
141 37.2 32.2 48.4





#45
2-Fluorobiphenyl
Concen: 8.376 ng
RT: 13.216 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
WC1-20230322DL



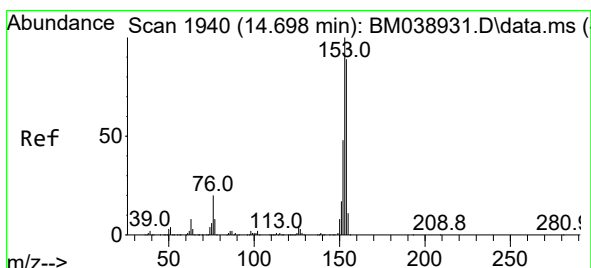
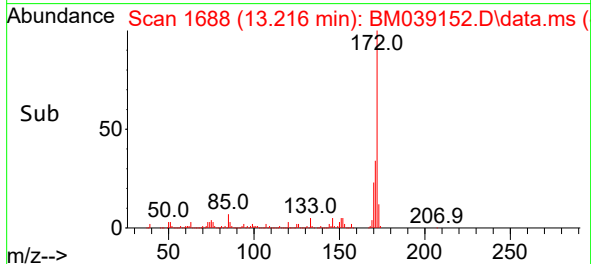
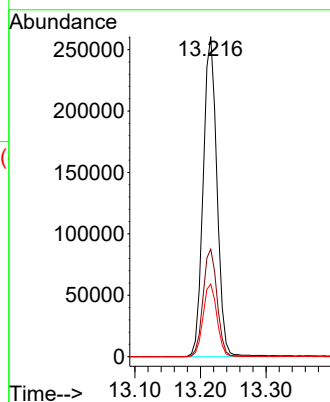
Tgt Ion:172 Resp: 38195
Ion Ratio Lower Upper
172 100
171 33.6 28.2 42.2
170 22.7 19.1 28.7

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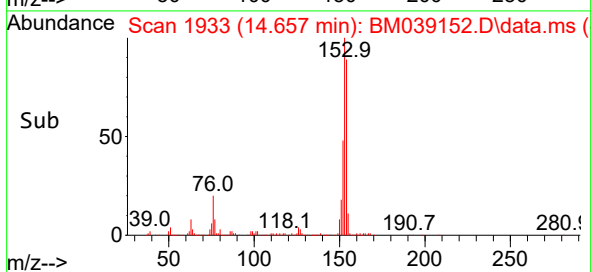
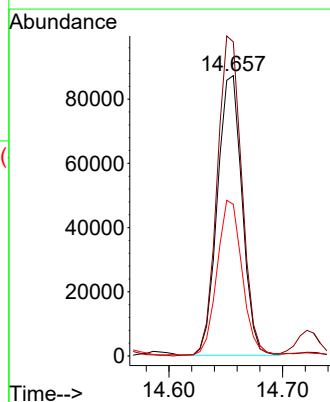
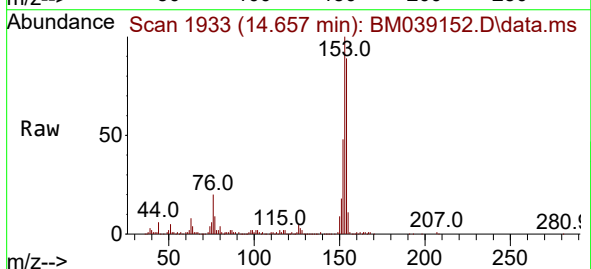
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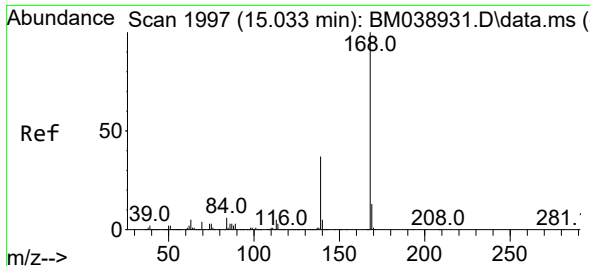
03/27/2023



#52
Acenaphthene
Concen: 3.552 ng
RT: 14.657 min Scan# 1933
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

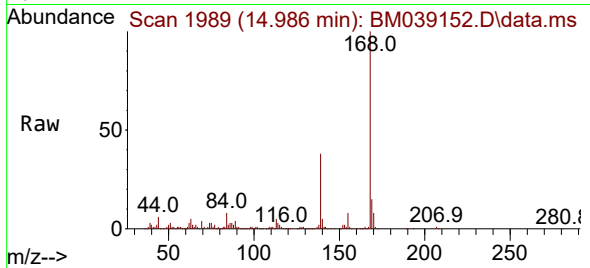
Tgt Ion:154 Resp: 131868
Ion Ratio Lower Upper
154 100
153 112.1 90.2 135.2
152 54.1 43.4 65.2





#55
Dibenzenofuran
Concen: 3.035 ng
RT: 14.986 min Scan# 1997
Delta R.T. -0.012 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
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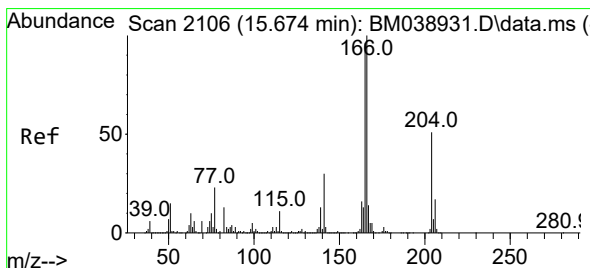
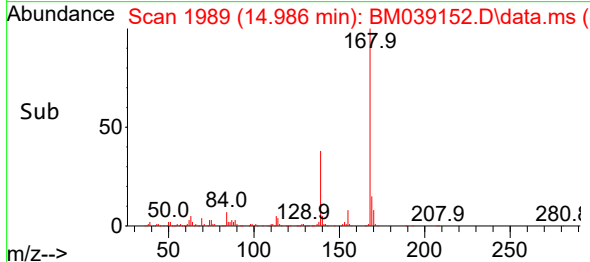
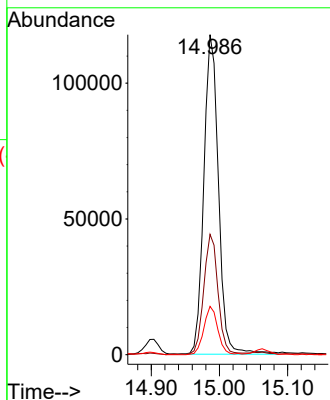
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Ion Ratio Lower Upper
168 100
139 37.6 29.9 44.9
169 15.1 10.7 16.1

Manual Integrations
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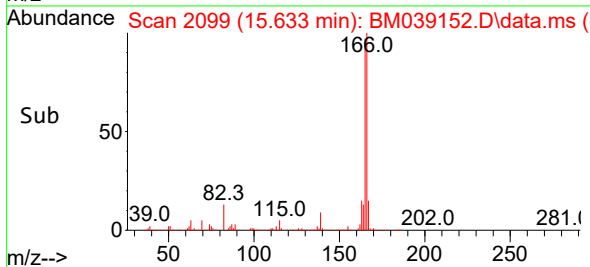
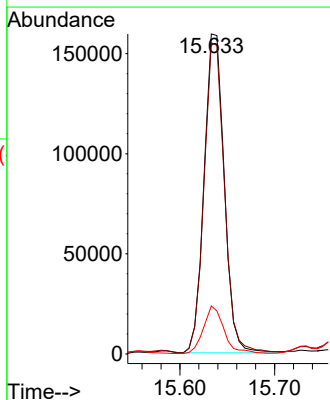
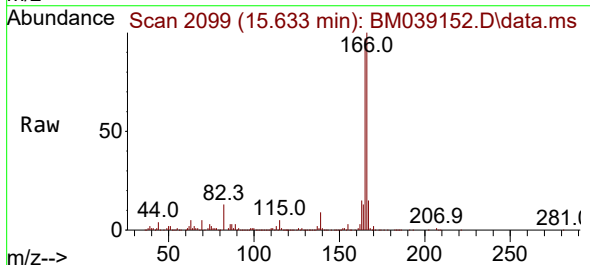
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Supervised By :Jagrut
Upadhyay

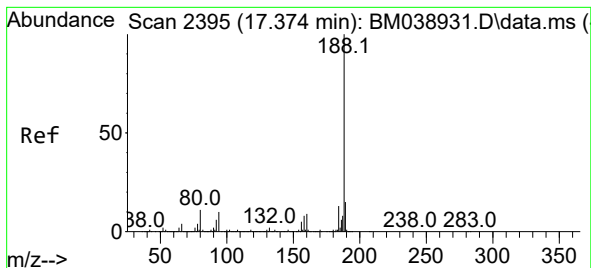
03/27/2023



#58
Fluorene
Concen: 5.164 ng
RT: 15.633 min Scan# 2099
Delta R.T. -0.012 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Tgt Ion:166 Resp: 234980
Ion Ratio Lower Upper
166 100
165 97.2 77.1 115.7
167 15.0 10.9 16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.333 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM039152.D

Acq: 24 Mar 2023 21:37

Instrument :

BNA_M

ClientSampleId :

WC1-20230322DL

Tgt Ion:188 Resp: 1251610

Ion Ratio Lower Upper

188 100

94 10.3 7.9 11.9

80 11.0 8.5 12.7

Manual Integrations

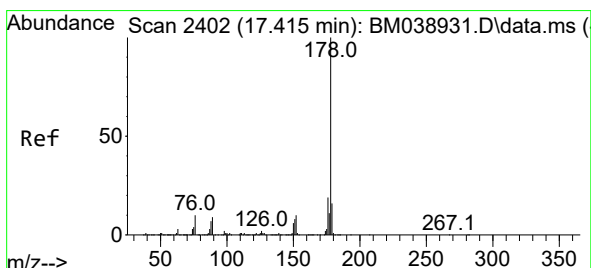
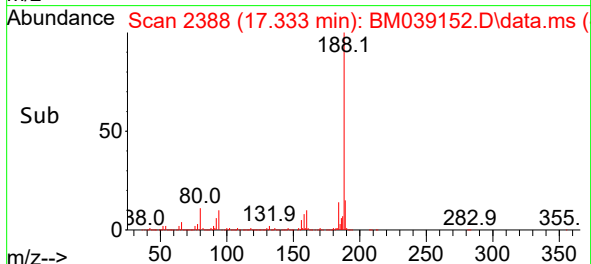
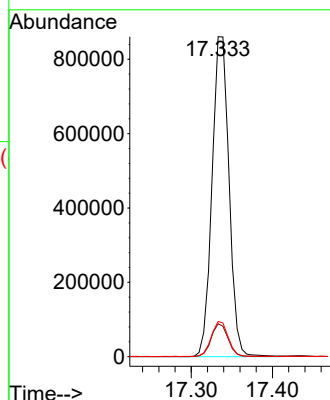
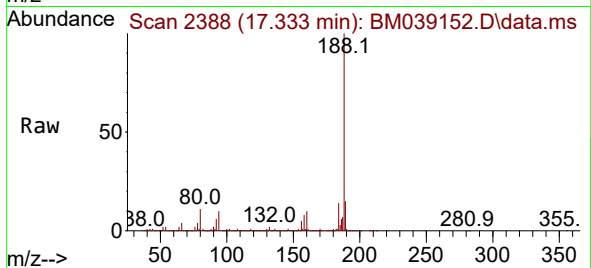
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Upadhyay

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#71

Phenanthrene

Concen: 31.825 ng

RT: 17.380 min Scan# 2396

Delta R.T. -0.006 min

Lab File: BM039152.D

Acq: 24 Mar 2023 21:37

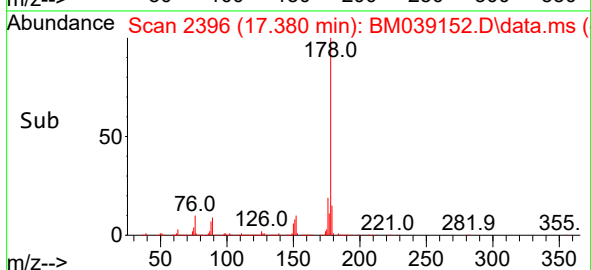
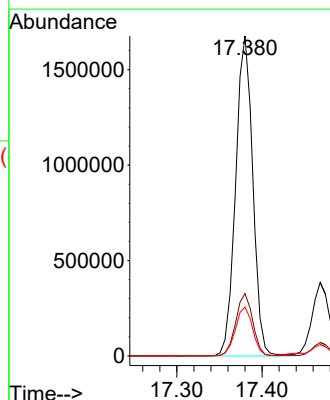
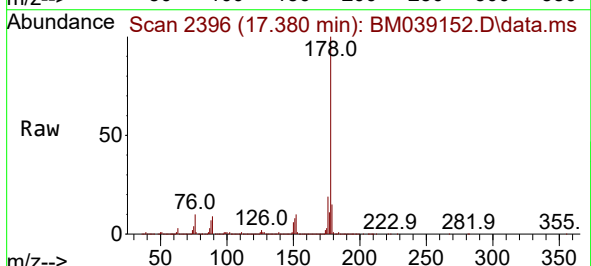
Tgt Ion:178 Resp: 2337807

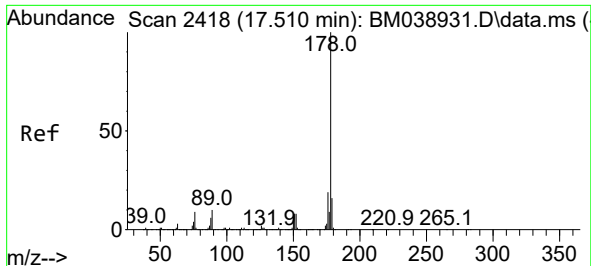
Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

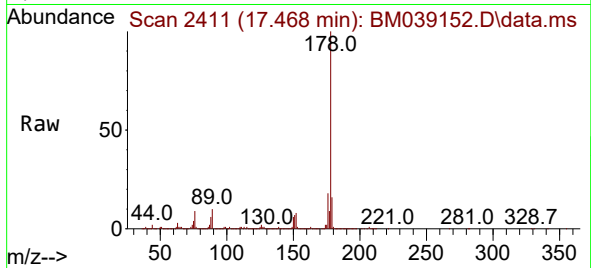
179 15.2 12.5 18.7





#72
 Anthracene
 Concen: 7.196 ng
 RT: 17.468 min Scan# 2418
 Delta R.T. -0.006 min
 Lab File: BM039152.D
 Acq: 24 Mar 2023 21:37

Instrument :
 BNA_M
 ClientSampleId :
 WC1-20230322DL



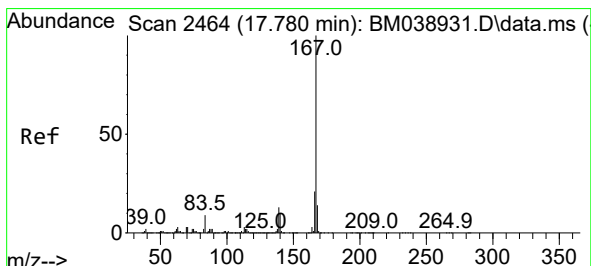
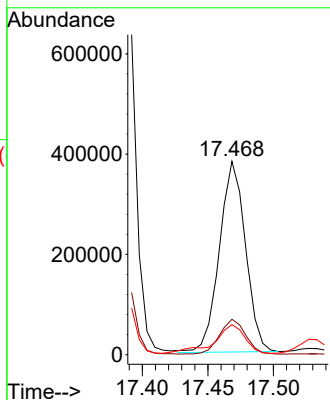
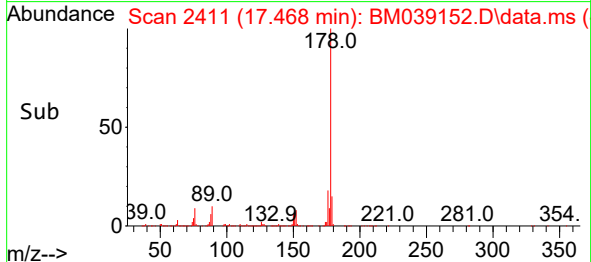
Tgt Ion:178 Resp: 52712
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.3 22.9
 179 15.5 12.5 18.7

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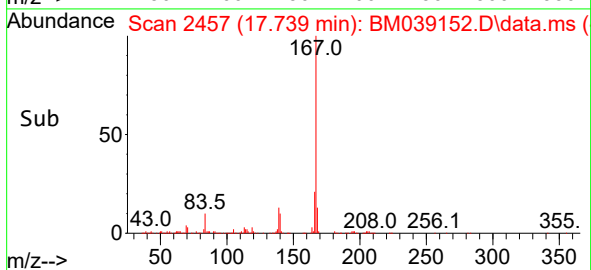
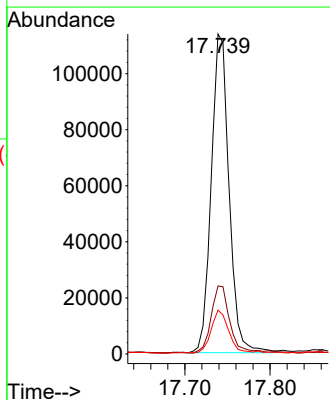
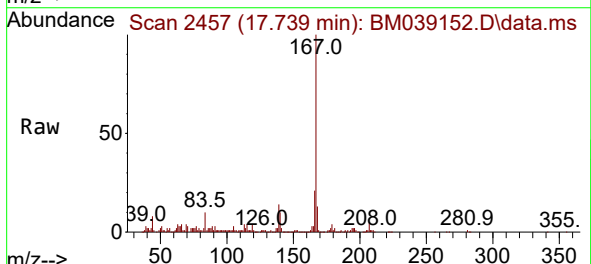
03/27/2023
 Supervised By :Jagrut
 Upadhyay

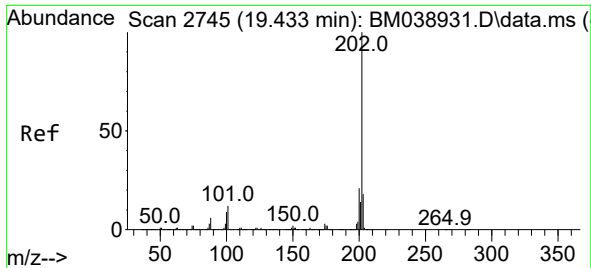
03/27/2023



#73
 Carbazole
 Concen: 2.477 ng
 RT: 17.739 min Scan# 2457
 Delta R.T. -0.012 min
 Lab File: BM039152.D
 Acq: 24 Mar 2023 21:37

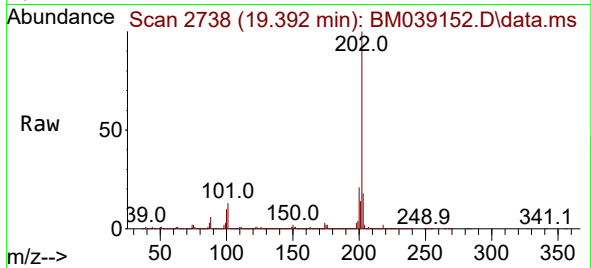
Tgt Ion:167 Resp: 165575
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.0 25.4
 139 13.7 10.3 15.5





#75
Fluoranthene
Concen: 34.864 ng
RT: 19.392 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
WC1-20230322DL



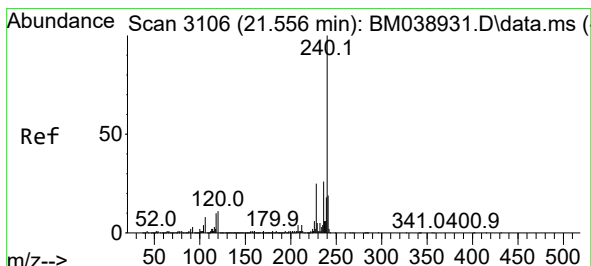
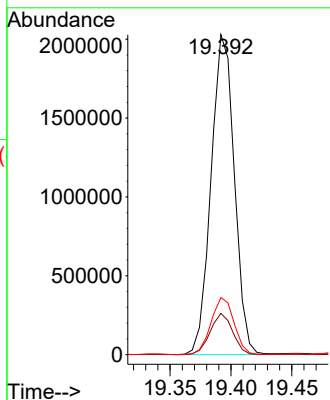
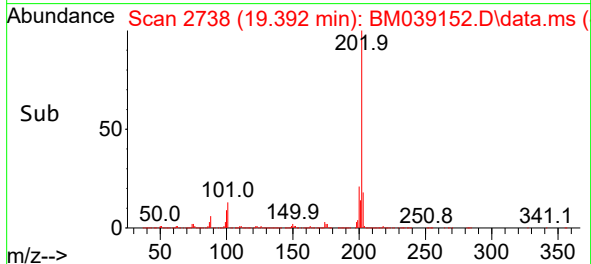
Tgt Ion:202 Resp: 2704080
Ion Ratio Lower Upper
202 100
101 12.9 0.0 31.7
203 17.9 0.0 37.6

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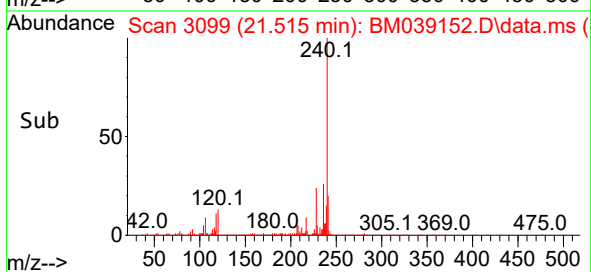
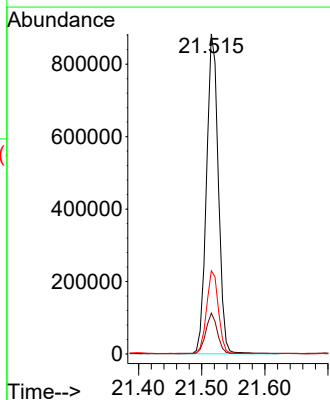
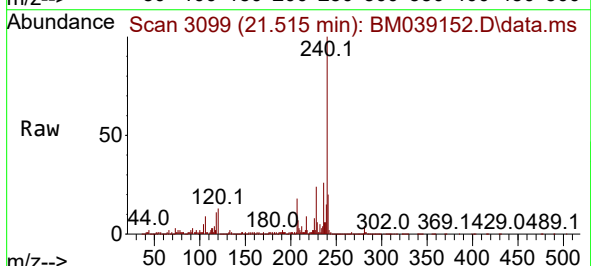
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Supervised By :Jagrut
Upadhyay

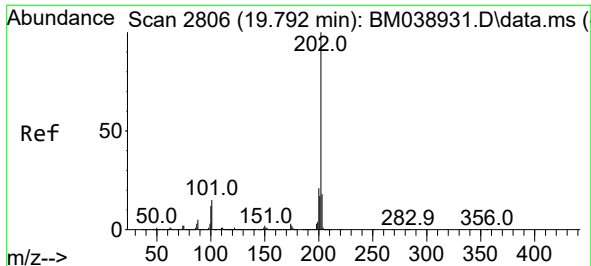
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.515 min Scan# 3099
Delta R.T. -0.012 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

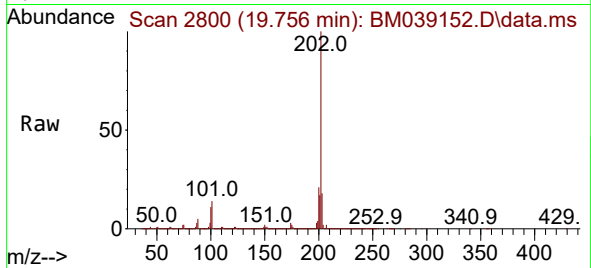
Tgt Ion:240 Resp: 1148668
Ion Ratio Lower Upper
240 100
120 12.8 9.2 13.8
236 26.0 20.8 31.2





#78
Pyrene
Concen: 28.826 ng
RT: 19.756 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
WC1-20230322DL



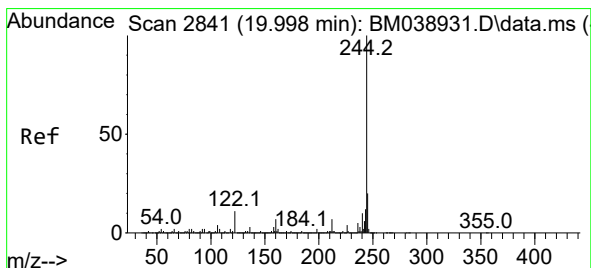
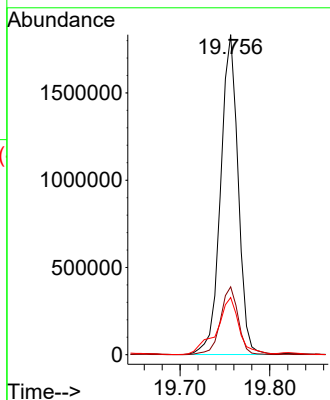
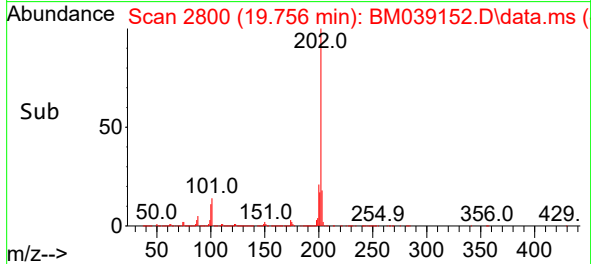
Tgt Ion:202 Resp: 248697
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 17.8 14.1 21.1

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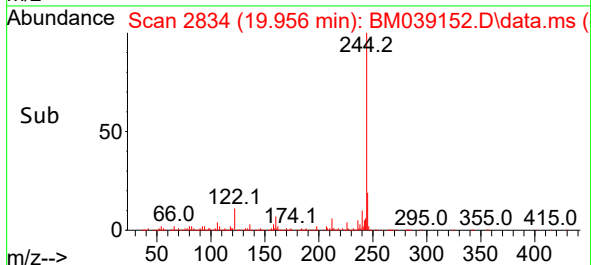
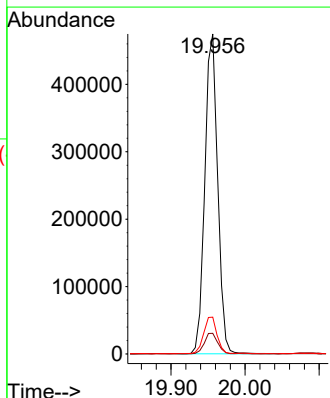
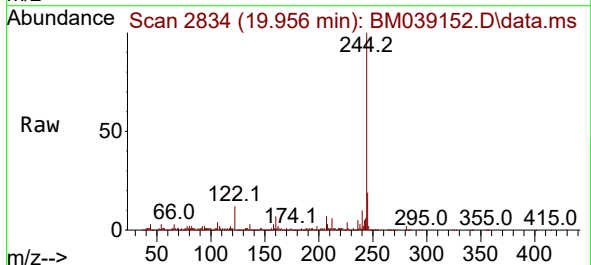
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Supervised By :Jagrut
Upadhyay

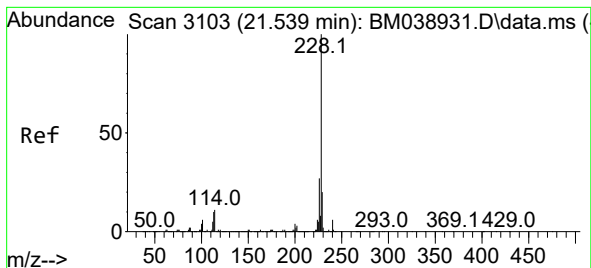
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#79
Terphenyl-d14
Concen: 9.123 ng
RT: 19.956 min Scan# 2834
Delta R.T. -0.006 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Tgt Ion:244 Resp: 573169
Ion Ratio Lower Upper
244 100
212 6.5 5.5 8.3
122 11.5 9.0 13.4





#81

Benzo(a)anthracene

Concen: 13.980 ng

RT: 21.497 min Scan# 30

Delta R.T. -0.012 min

Lab File: BM039152.D

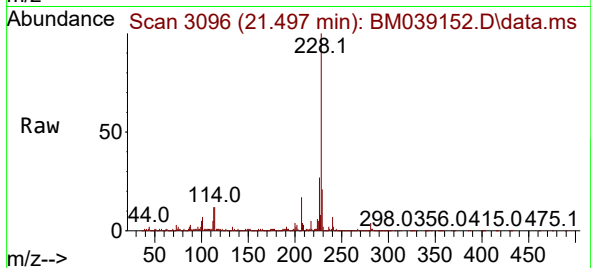
Acq: 24 Mar 2023 21:37

Instrument :

BNA_M

ClientSampleId :

WC1-20230322DL



Tgt Ion:228 Resp: 1156429

Ion Ratio Lower Upper

228 100

226 27.2 21.4 32.2

229 20.7 15.7 23.5

Manual Integrations

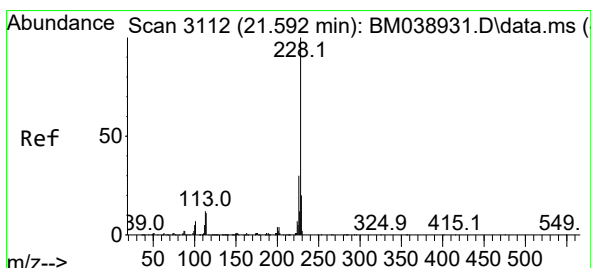
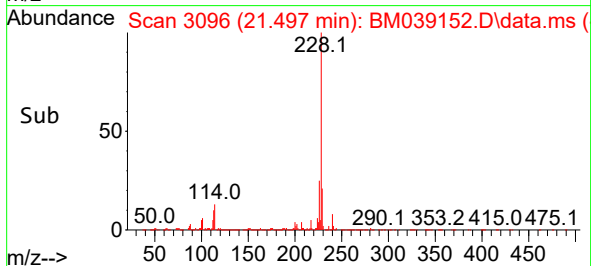
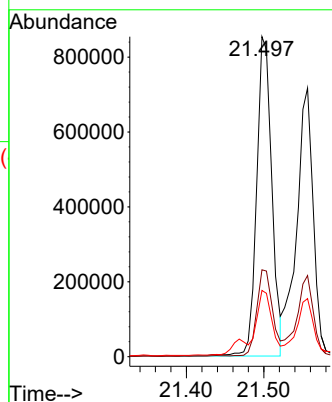
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Reviewed By :Christian
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#83

Chrysene

Concen: 13.362 ng m

RT: 21.556 min Scan# 3106

Delta R.T. -0.006 min

Lab File: BM039152.D

Acq: 24 Mar 2023 21:37

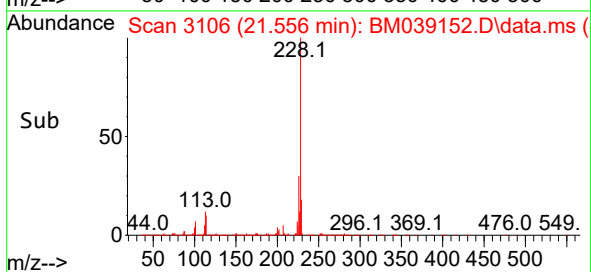
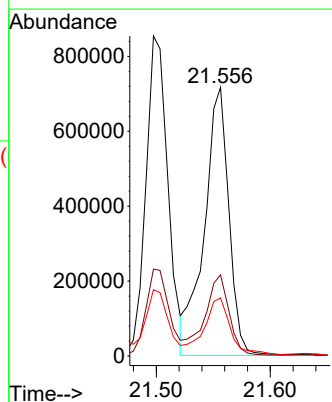
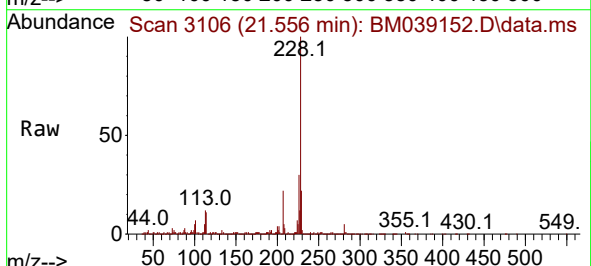
Tgt Ion:228 Resp: 1075044

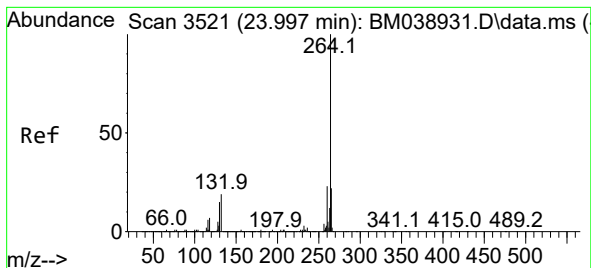
Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

229 21.6 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.944 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM039152.D

Acq: 24 Mar 2023 21:37

Instrument :

BNA_M

ClientSampleId :

WC1-20230322DL

Tgt Ion:264 Resp: 125910

Ion Ratio Lower Upper

264 100

260 24.0 18.7 28.1

265 22.6 17.9 26.9

Manual Integrations

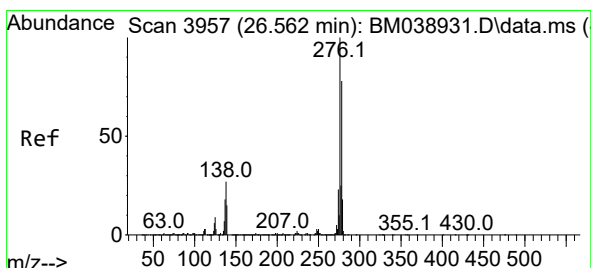
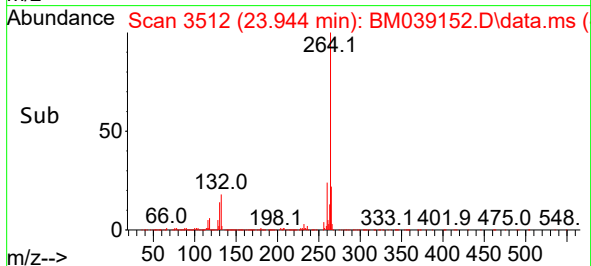
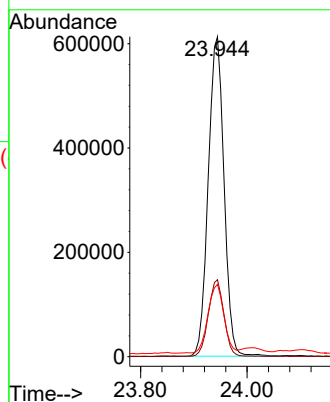
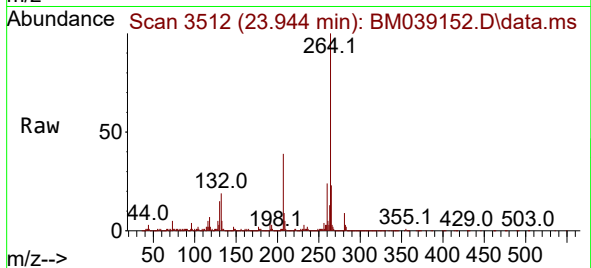
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Reviewed By :Christian
Giraldo

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Upadhyay

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#87

Indeno(1,2,3-cd)pyrene

Concen: 6.207 ng

RT: 26.456 min Scan# 3939

Delta R.T. -0.035 min

Lab File: BM039152.D

Acq: 24 Mar 2023 21:37

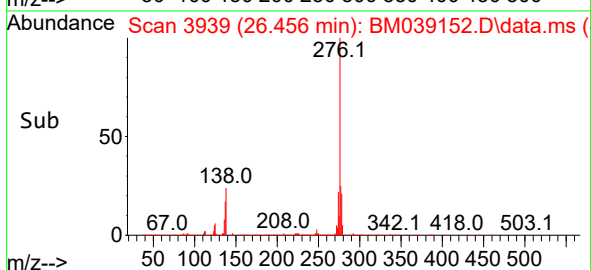
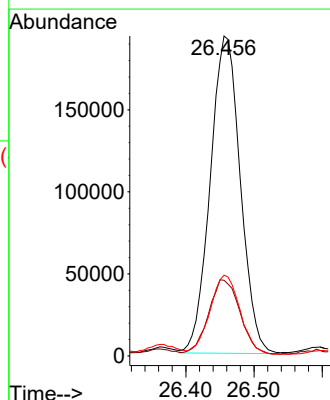
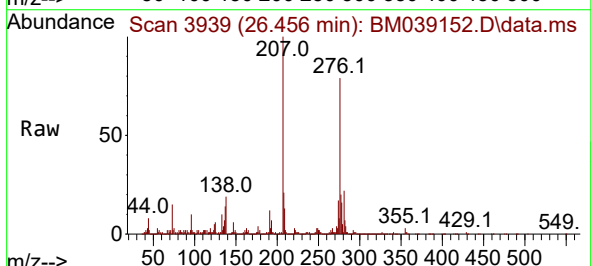
Tgt Ion:276 Resp: 594690

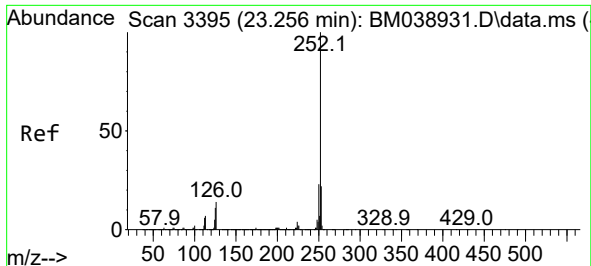
Ion Ratio Lower Upper

276 100

138 24.2 22.1 33.1

277 24.9 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 15.958 ng
RT: 23.203 min Scan# 3386
Delta R.T. -0.012 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
WC1-20230322DL

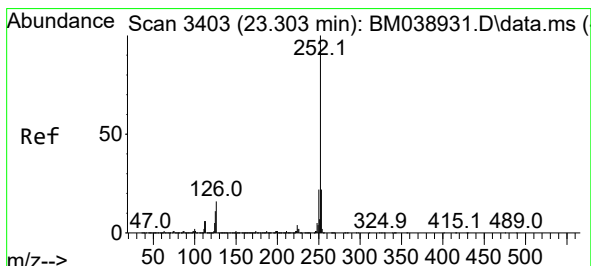
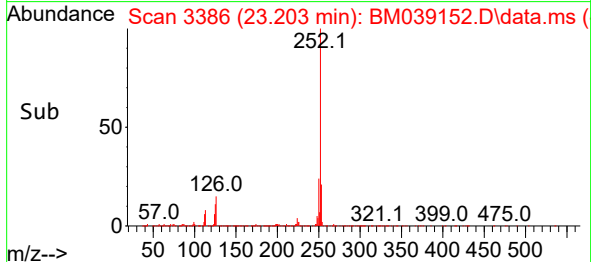
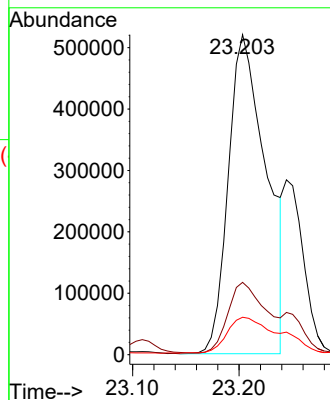
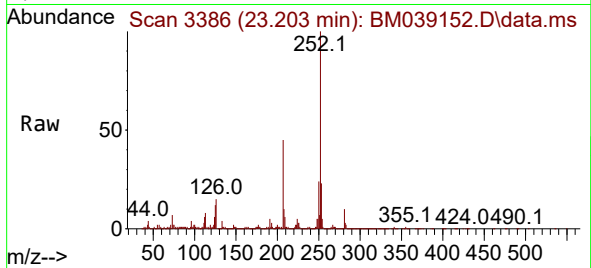
Tgt Ion:252 Resp: 128368
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 11.7 8.8 13.2

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Reviewed By :Christian
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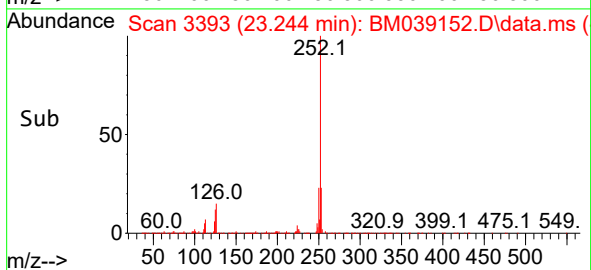
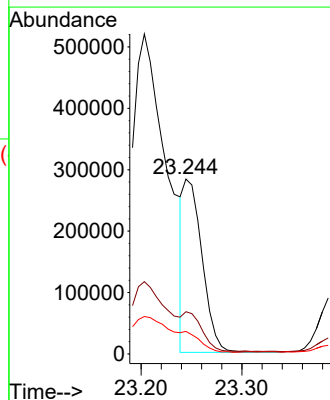
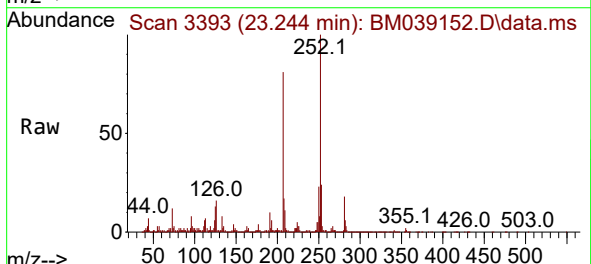
03/27/2023
Supervised By :Jagrut
Upadhyay

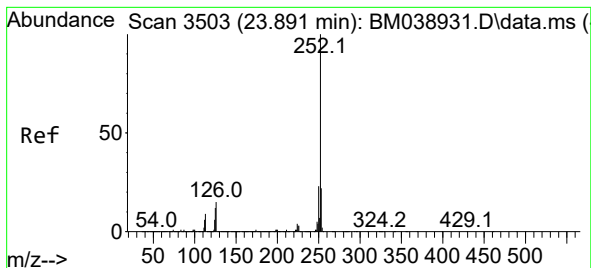
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#89
Benzo(k)fluoranthene
Concen: 4.314 ng m
RT: 23.244 min Scan# 3393
Delta R.T. -0.023 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

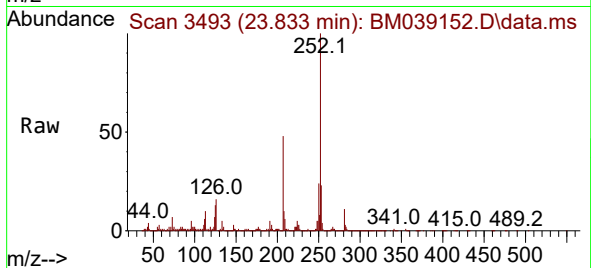
Tgt Ion:252 Resp: 361120
Ion Ratio Lower Upper
252 100
253 24.2 17.5 26.3
125 12.9 8.9 13.3





#90
Benzo(a)pyrene
Concen: 12.443 ng
RT: 23.833 min Scan# 34
Delta R.T. -0.018 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Instrument :
BNA_M
ClientSampleId :
WC1-20230322DL



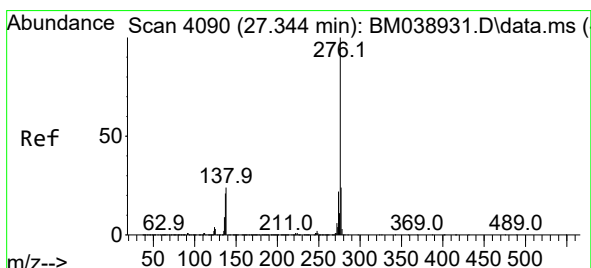
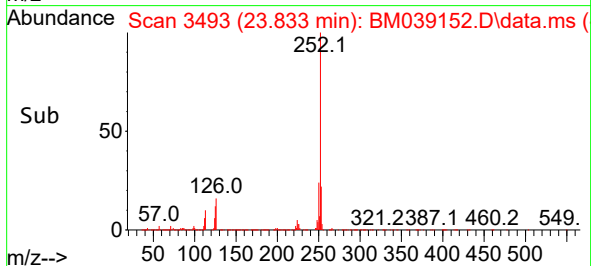
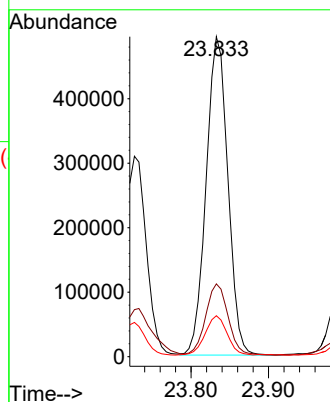
Tgt Ion:252 Resp: 963328
Ion Ratio Lower Upper
252 100
253 22.8 17.6 26.4
125 12.8 9.8 14.8

Manual Integrations
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Upadhyay

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#92
Benzo(g,h,i)perylene
Concen: 7.370 ng
RT: 27.232 min Scan# 4071
Delta R.T. -0.041 min
Lab File: BM039152.D
Acq: 24 Mar 2023 21:37

Tgt Ion:276 Resp: 585011
Ion Ratio Lower Upper
276 100
277 23.7 19.3 28.9
138 23.6 19.0 28.6

