

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032323\
 Data File : BM039133.D
 Acq On : 24 Mar 2023 01:44
 Operator : CG/JU
 Sample : 02032-02DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S-2DL

Quant Time: Mar 24 04:36:52 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

Manual Integrations APPROVED

Reviewed By : Christian
 Giraldo

03/24/2023
 Supervised By : Jagrut
 Upadhyay

03/24/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.963	152	292434	20.000	ng	0.00
21) Naphthalene-d8	10.775	136	1154310	20.000	ng	0.00
39) Acenaphthene-d10	14.604	164	639785	20.000	ng	0.00
64) Phenanthrene-d10	17.351	188	1296928	20.000	ng	0.00
76) Chrysene-d12	21.527	240	1120998	20.000	ng	0.00
86) Perylene-d12	23.968	264	1295496	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	278837	14.486	ng	0.00
7) Phenol-d6	7.122	99	350390	14.015	ng	0.00
23) Nitrobenzene-d5	9.128	82	231819	9.865	ng	-0.01
42) 2,4,6-Tribromophenol	16.092	330	111117	15.013	ng	0.00
45) 2-Fluorobiphenyl	13.228	172	460948	9.379	ng	0.00
79) Terphenyl-d14	19.968	244	651487	10.626	ng	0.00
Target Compounds						
						Qvalue
20) 3+4-Methylphenols	8.740	107	61289	2.517	ng	88
31) Naphthalene	10.828	128	11014803	167.345	ng	98
37) 2-Methylnaphthalene	12.434	142	486963	11.038	ng	99
38) 1-Methylnaphthalene	12.651	142	245464m	5.937	ng	
58) Fluorene	15.645	166	115450	2.354	ng	99
71) Phenanthrene	17.392	178	805111	10.577	ng	100
72) Anthracene	17.480	178	192169	2.532	ng	98
75) Fluoranthene	19.404	202	2575385	32.045	ng	97
78) Pyrene	19.768	202	1962298	23.306	ng	99
81) Benzo(a)anthracene	21.515	228	1737720	21.525	ng	97
83) Chrysene	21.568	228	1794124	22.851	ng	97
87) Indeno(1,2,3-cd)pyrene	26.503	276	1245134	12.631	ng	97
88) Benzo(b)fluoranthene	23.227	252	3427549	41.413	ng	98
89) Benzo(k)fluoranthene	23.268	252	1157392m	13.437	ng	
90) Benzo(a)pyrene	23.856	252	1621536	20.357	ng	97
91) Dibenzo(a,h)anthracene	26.503	278	411094	4.924	ng	# 89
92) Benzo(g,h,i)perylene	27.285	276	1138198	13.935	ng	99

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

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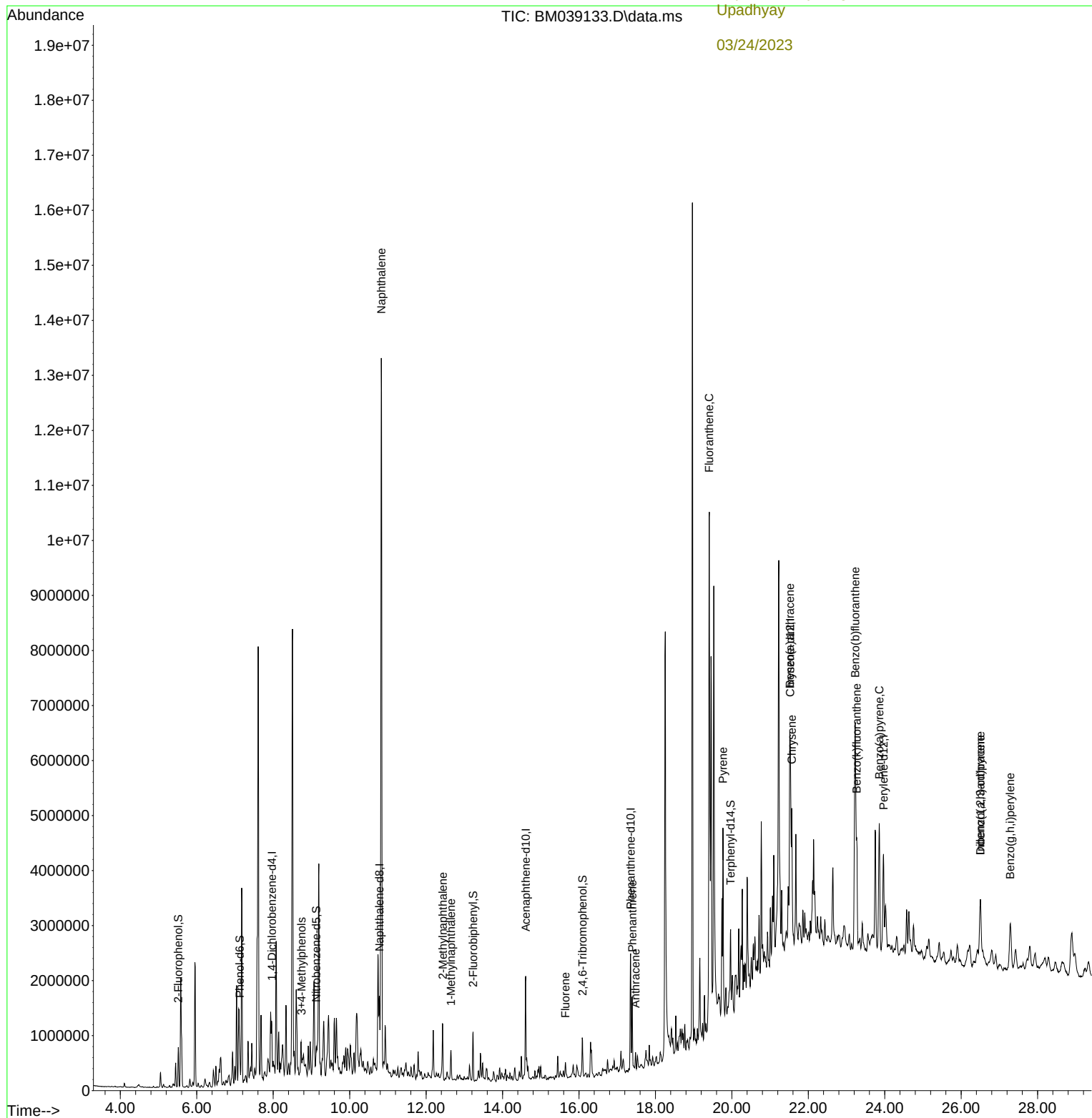
Quant Time: Mar 24 04:36:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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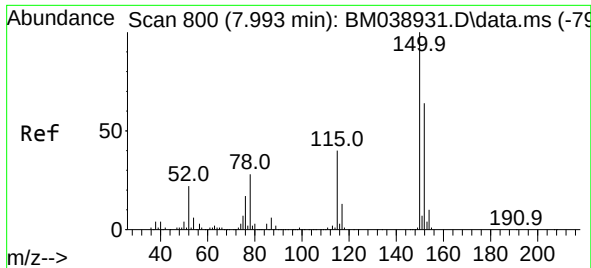
Manual Integrations
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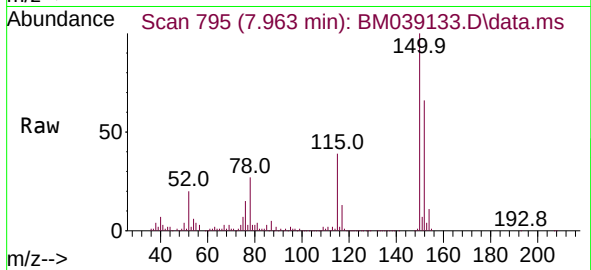
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.963 min Scan# 79
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



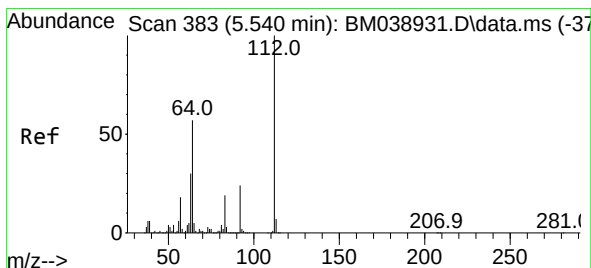
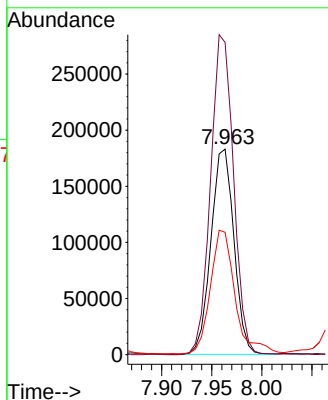
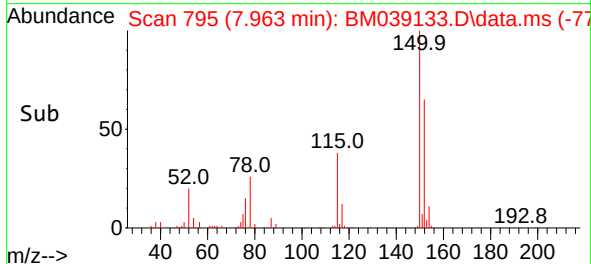
Tgt Ion:152 Resp: 292434
Ion Ratio Lower Upper
152 100
150 152.0 125.1 187.7
115 59.5 49.6 74.4

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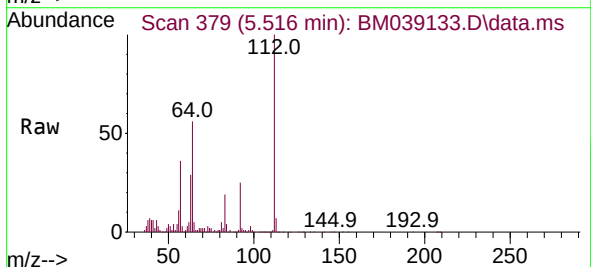
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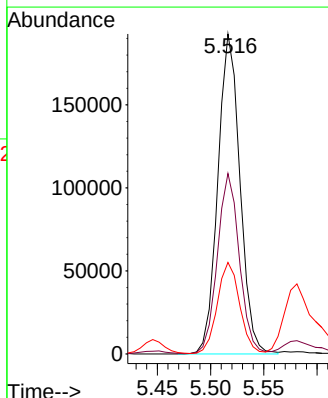
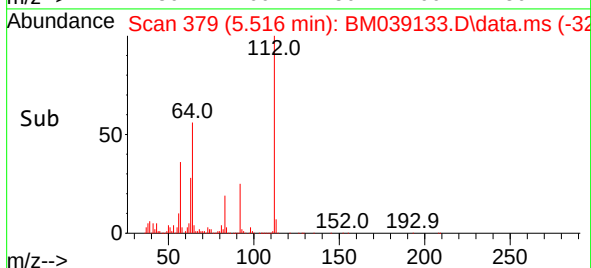
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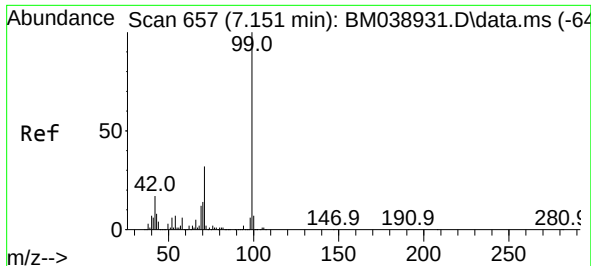


#5
2-Fluorophenol
Concen: 14.486 ng
RT: 5.516 min Scan# 379
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44



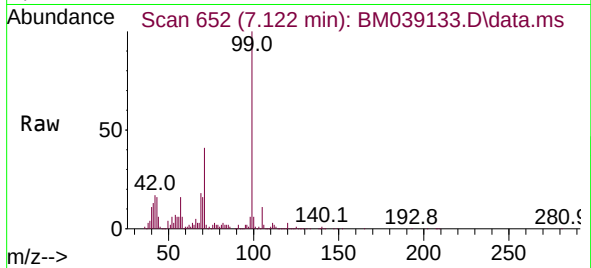
Tgt Ion:112 Resp: 278837
Ion Ratio Lower Upper
112 100
64 56.4 45.9 68.9
63 28.6 23.8 35.8





#7
Phenol-d6
Concen: 14.015 ng
RT: 7.122 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



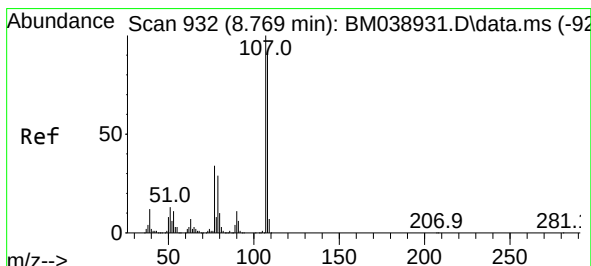
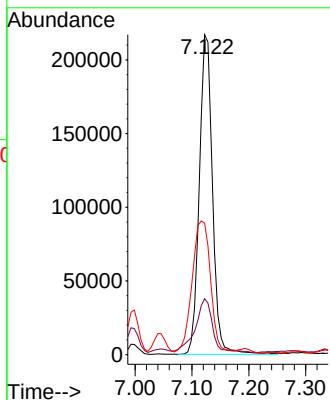
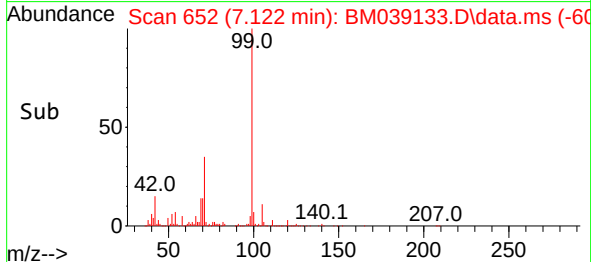
Tgt Ion: 99 Resp: 350390
Ion Ratio Lower Upper
99 100
42 17.5 13.5 20.3
71 41.2 25.6 38.4

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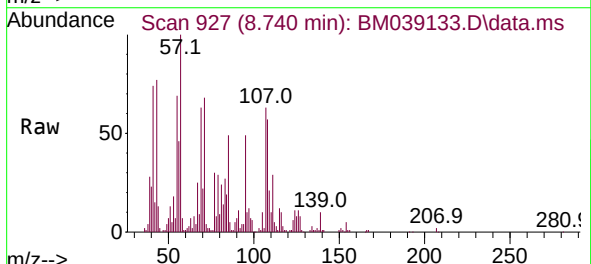
Reviewed By :Christian
Giraldo

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Supervised By :Jagrut
Upadhyay

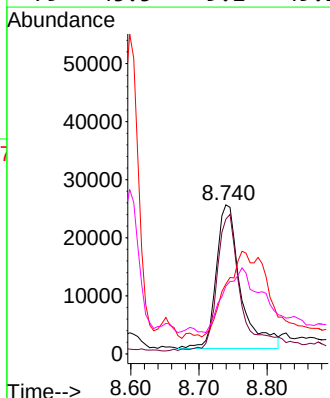
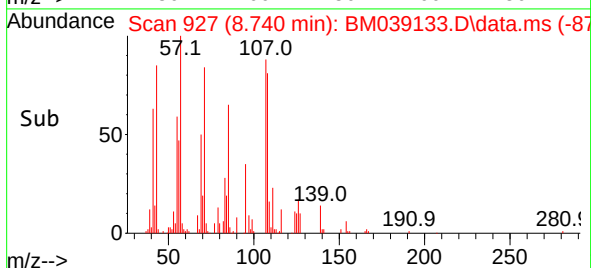
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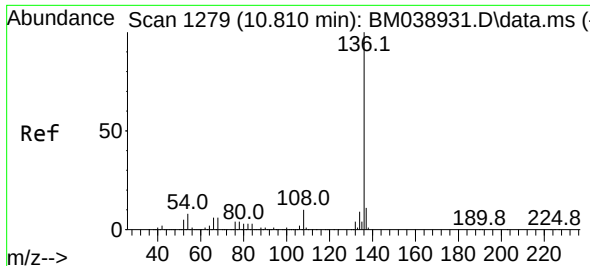


#20
3+4-Methylphenols
Concen: 2.517 ng
RT: 8.740 min Scan# 927
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44



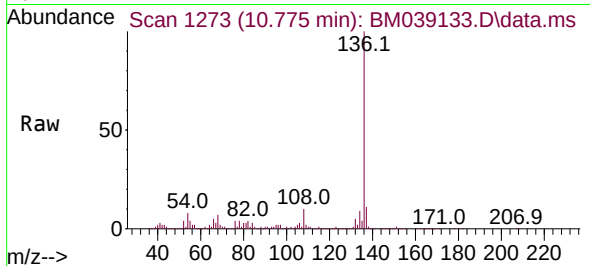
Tgt Ion:107 Resp: 61289
Ion Ratio Lower Upper
107 100
108 90.5 71.8 111.8
77 46.9 13.6 53.6
79 45.5 9.2 49.2





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.775 min Scan# 1154310
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



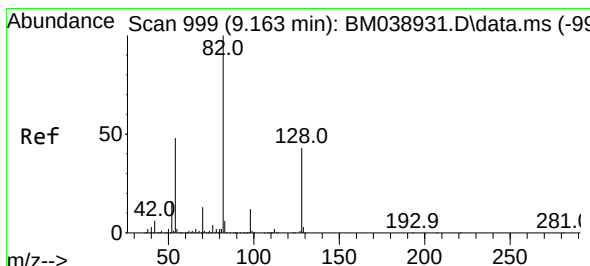
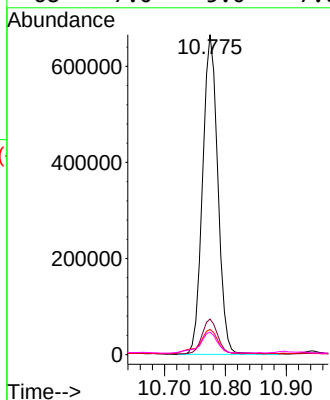
Tgt Ion:136 Resp: 1154310
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 7.9 6.3 9.5
68 7.0 5.0 7.6

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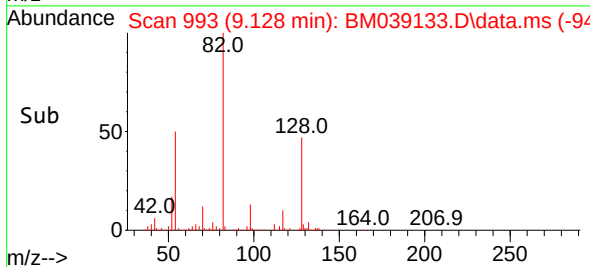
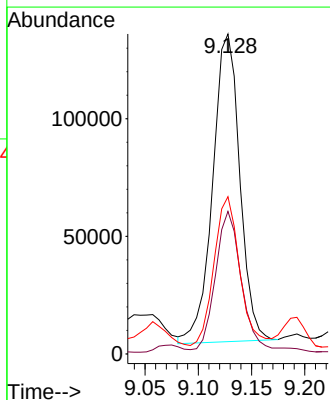
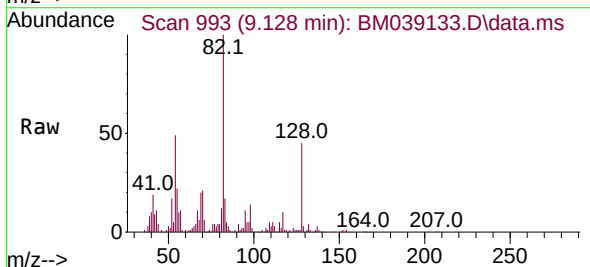
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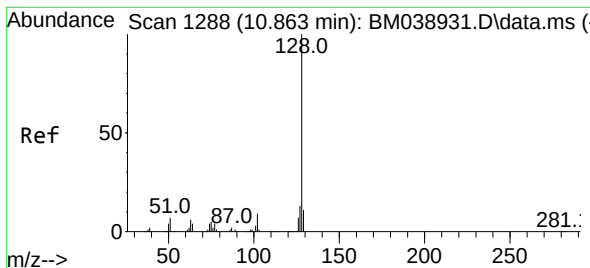
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#23
Nitrobenzene-d5
Concen: 9.865 ng
RT: 9.128 min Scan# 993
Delta R.T. -0.012 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

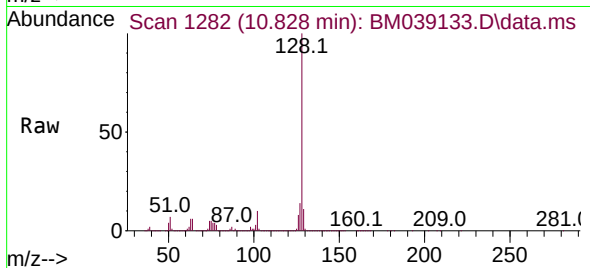
Tgt Ion: 82 Resp: 231819
Ion Ratio Lower Upper
82 100
128 44.5 34.4 51.6
54 49.1 38.8 58.2





#31
Naphthalene
Concen: 167.345 ng
RT: 10.828 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



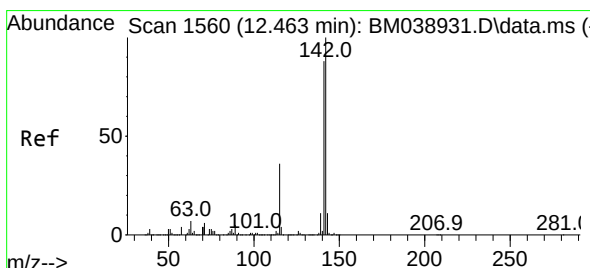
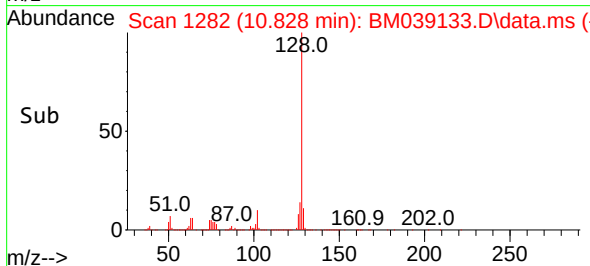
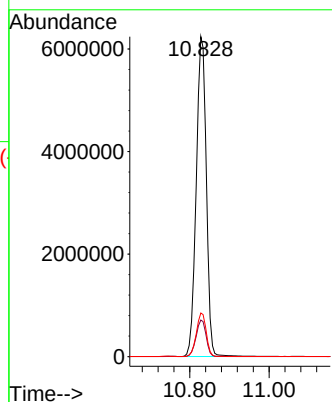
Tgt Ion:128 Resp:1101480
Ion Ratio Lower Upper
128 100
129 11.4 8.6 13.0
127 13.6 10.2 15.4

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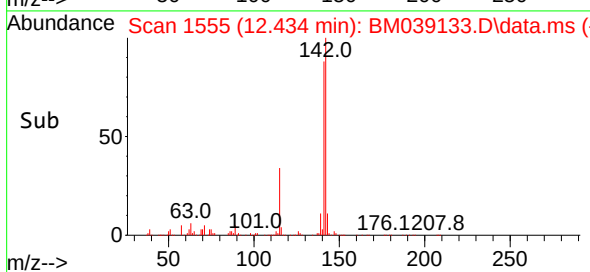
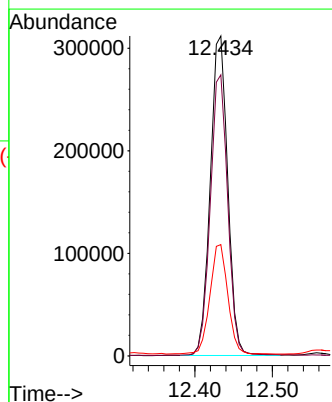
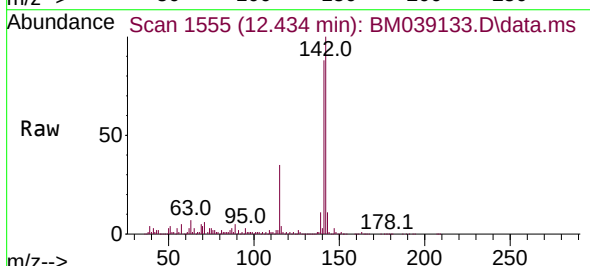
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Upadhyay

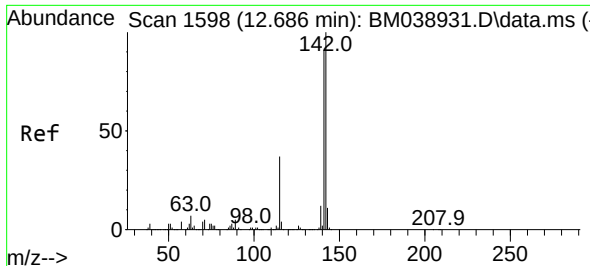
03/24/2023



#37
2-Methylnaphthalene
Concen: 11.038 ng
RT: 12.434 min Scan# 1555
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

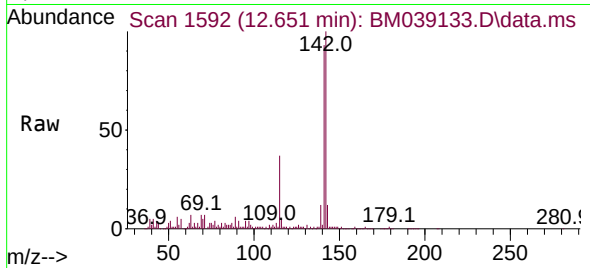
Tgt Ion:142 Resp: 486963
Ion Ratio Lower Upper
142 100
141 87.8 70.6 106.0
115 34.8 28.5 42.7





#38
1-Methylnaphthalene
Concen: 5.937 ng m
RT: 12.651 min Scan# 1592
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



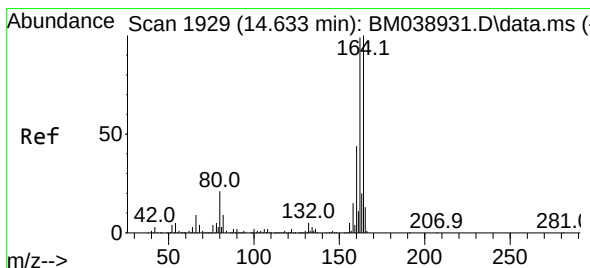
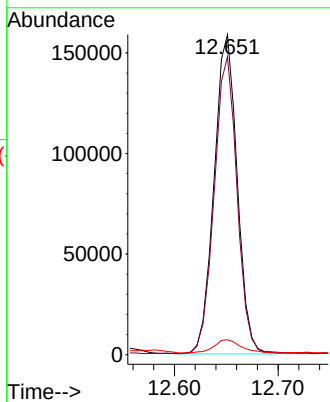
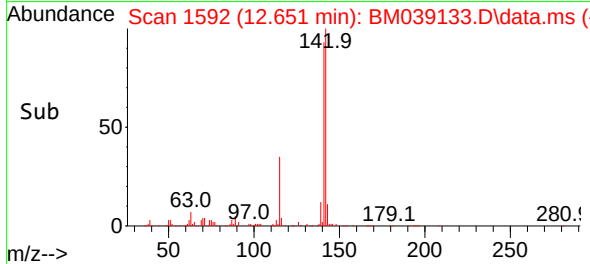
Tgt Ion:142 Resp: 245464
Ion Ratio Lower Upper
142 100
141 93.1 72.8 109.2
116 4.6 3.0 4.4

Manual Integrations
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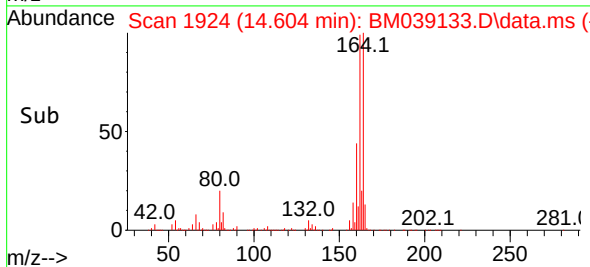
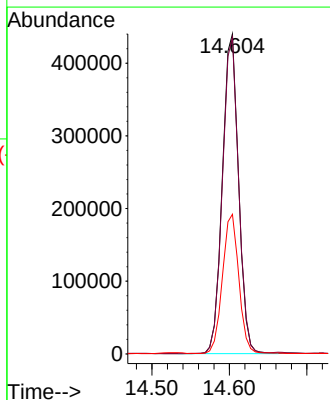
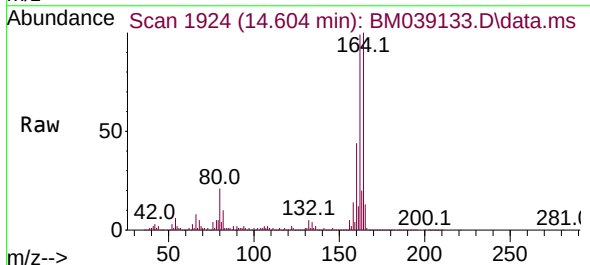
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Upadhyay

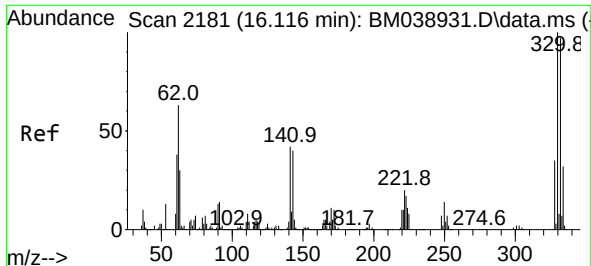
03/24/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.604 min Scan# 1924
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Tgt Ion:164 Resp: 639785
Ion Ratio Lower Upper
164 100
162 99.0 79.2 118.8
160 43.6 35.5 53.3





#42
2,4,6-Tribromophenol
Concen: 15.013 ng
RT: 16.092 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :

BNA_M

ClientSampleId :

S-2DL

Tgt Ion:330 Resp: 11111
Ion Ratio Lower Upper
330 100
332 95.7 77.4 116.0
141 34.5 32.2 48.4

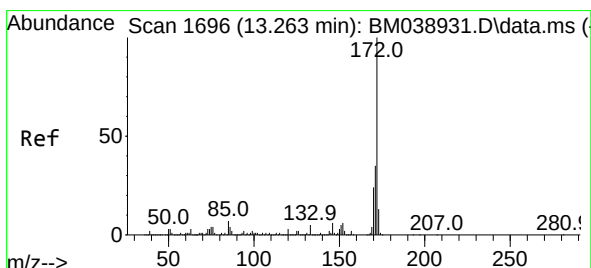
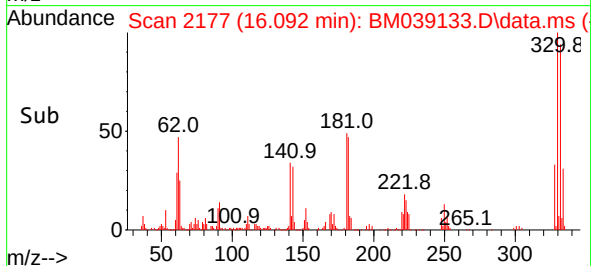
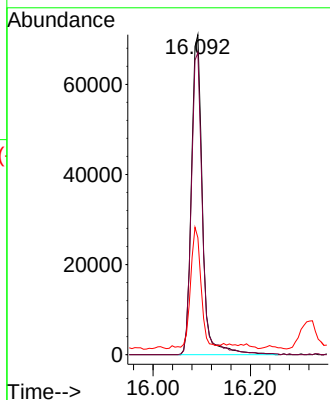
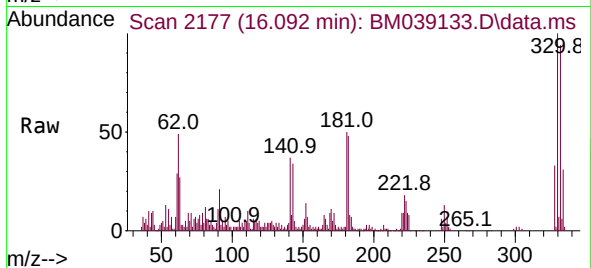
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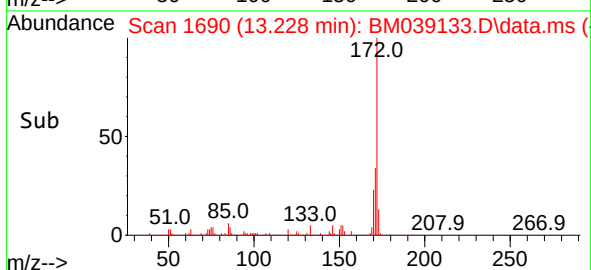
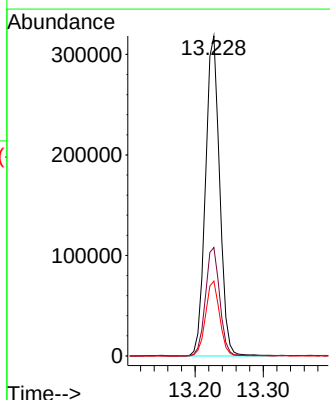
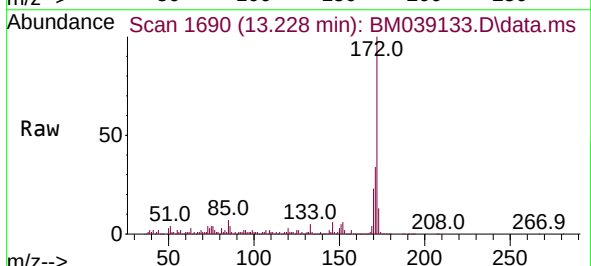
Supervised By :Jagrut
Upadhyay

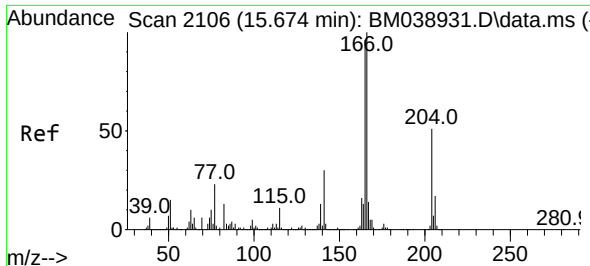
03/24/2023



#45
2-Fluorobiphenyl
Concen: 9.379 ng
RT: 13.228 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

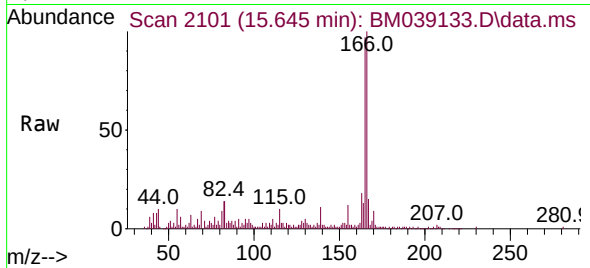
Tgt Ion:172 Resp: 460948
Ion Ratio Lower Upper
172 100
171 33.9 28.2 42.2
170 23.4 19.1 28.7





#58
Fluorene
Concen: 2.354 ng
RT: 15.645 min Scan# 2106
Delta R.T. -0.012 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



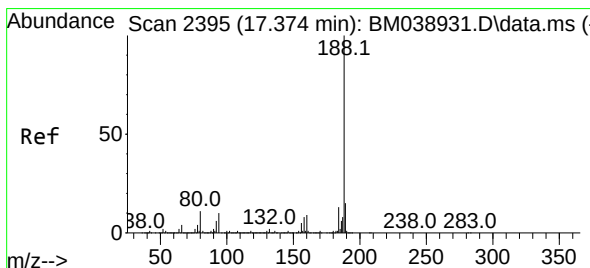
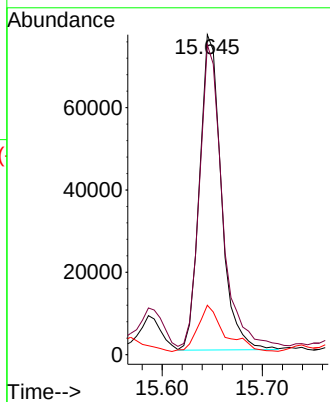
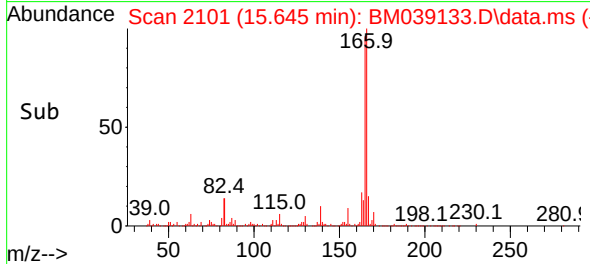
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Ion Ratio Lower Upper
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167 15.4 10.9 16.3

Manual Integrations
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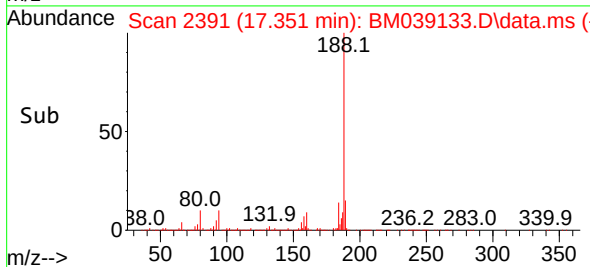
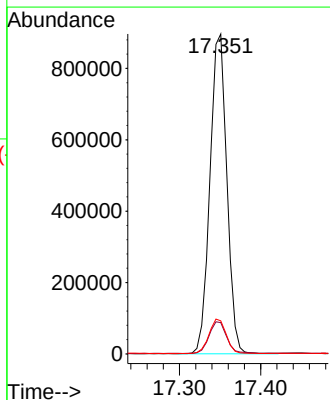
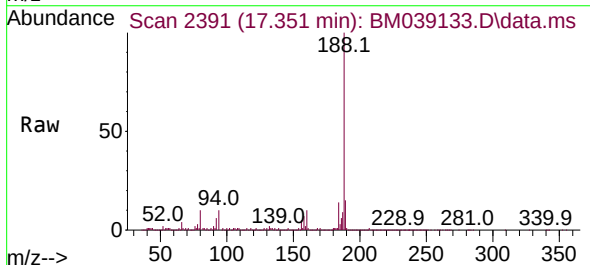
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Supervised By :Jagrut
Upadhyay

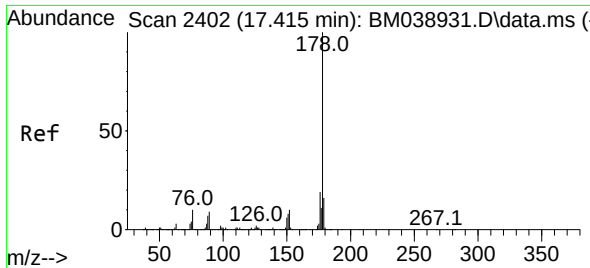
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.351 min Scan# 2391
Delta R.T. 0.000 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Tgt Ion:188 Resp: 1296928
Ion Ratio Lower Upper
188 100
94 9.8 7.9 11.9
80 10.3 8.5 12.7





#71
Phenanthrene
Concen: 10.577 ng
RT: 17.392 min Scan# 2402
Delta R.T. 0.000 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL

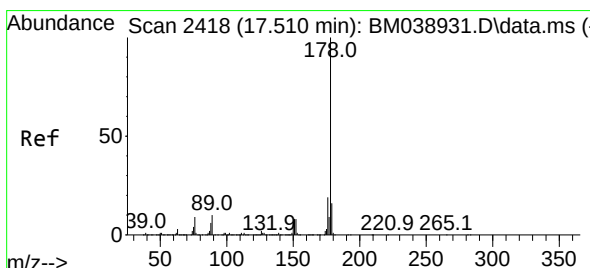
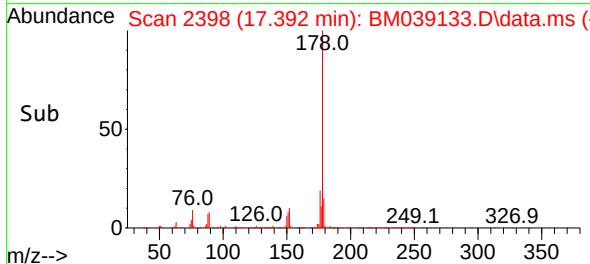
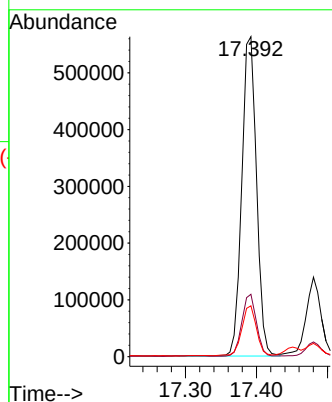
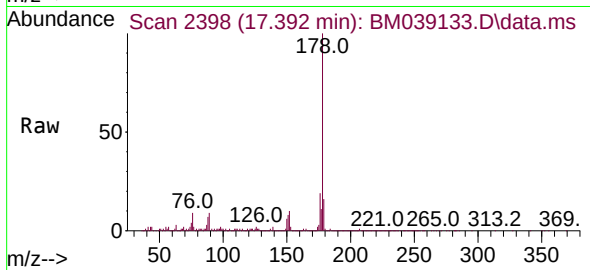
Tgt Ion:178 Resp: 805111
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 15.9 12.5 18.7

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Reviewed By :Christian
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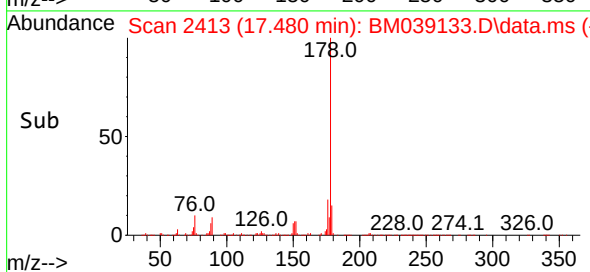
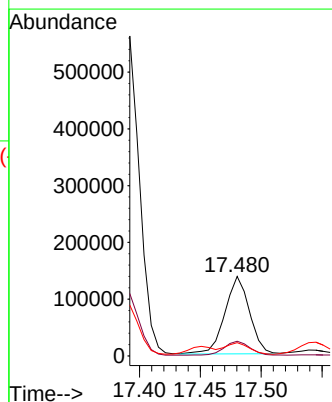
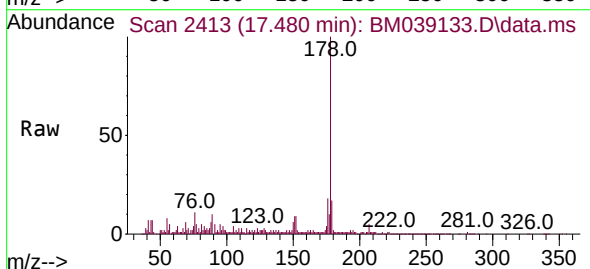
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Supervised By :Jagrut
Upadhyay

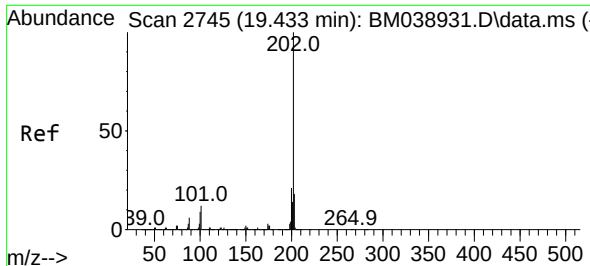
03/24/2023



#72
Anthracene
Concen: 2.532 ng
RT: 17.480 min Scan# 2413
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

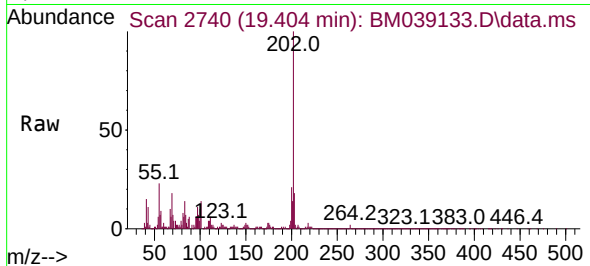
Tgt Ion:178 Resp: 192169
Ion Ratio Lower Upper
178 100
176 18.3 15.3 22.9
179 16.7 12.5 18.7





#75
Fluoranthene
Concen: 32.045 ng
RT: 19.404 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



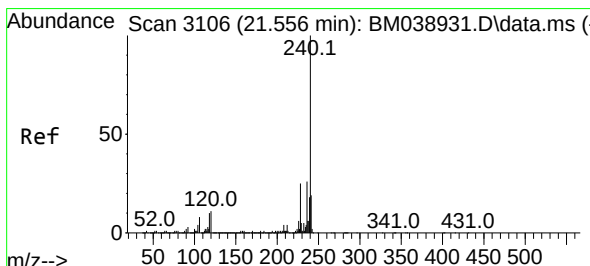
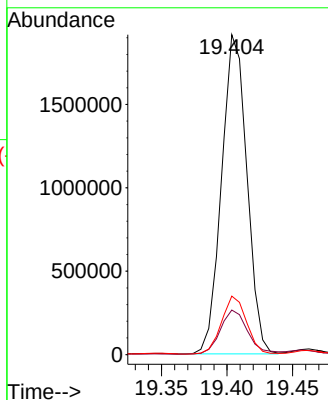
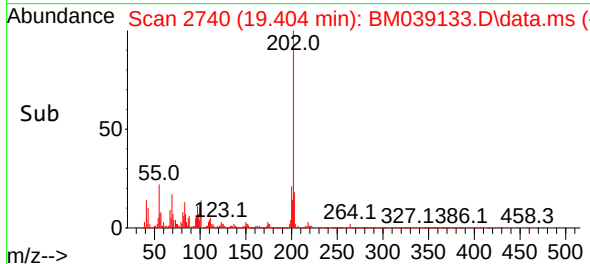
Tgt Ion:202 Resp: 2575385
Ion Ratio Lower Upper
202 100
101 13.9 0.0 31.7
203 18.3 0.0 37.6

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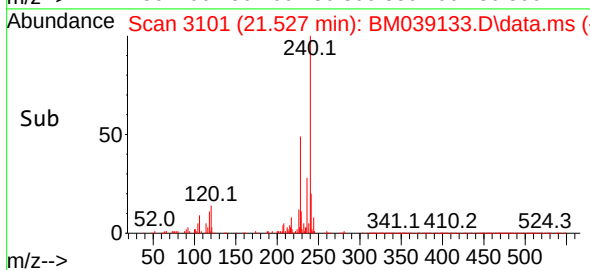
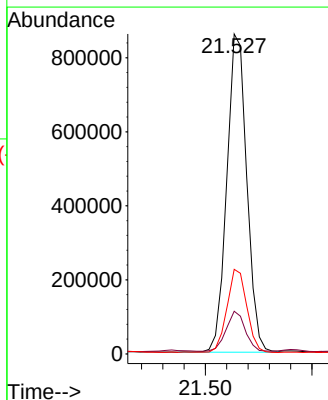
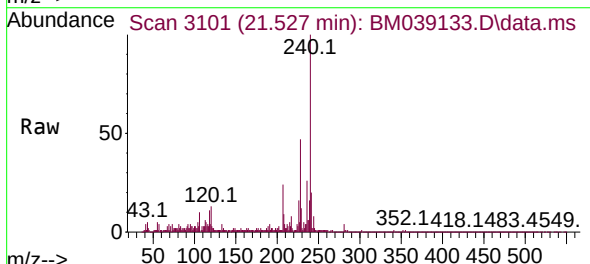
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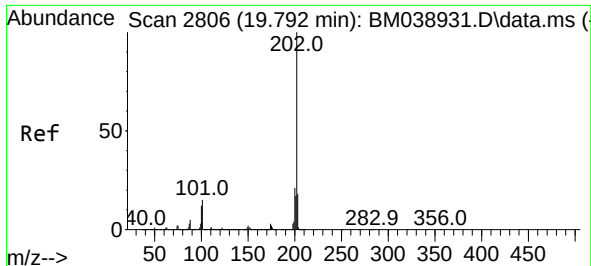
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.527 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

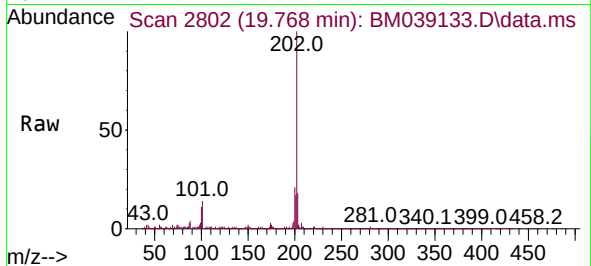
Tgt Ion:240 Resp: 1120998
Ion Ratio Lower Upper
240 100
120 13.3 9.2 13.8
236 26.4 20.8 31.2





#78
Pyrene
Concen: 23.306 ng
RT: 19.768 min Scan# 2802
Delta R.T. 0.000 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



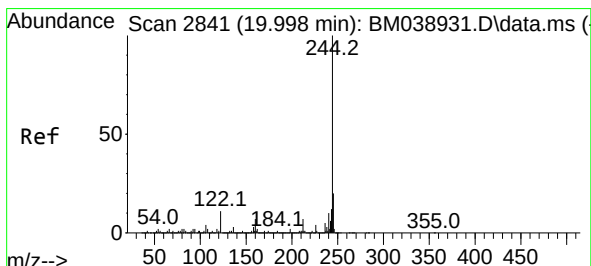
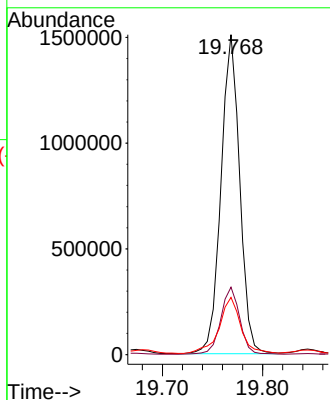
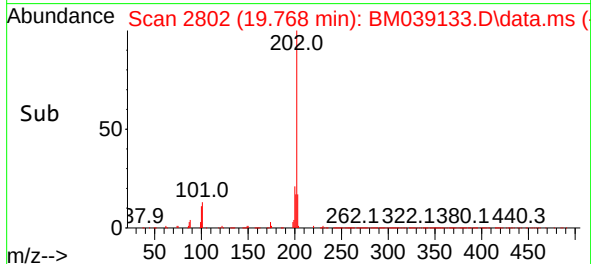
Tgt Ion:202 Resp: 1962298
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.9 14.1 21.1

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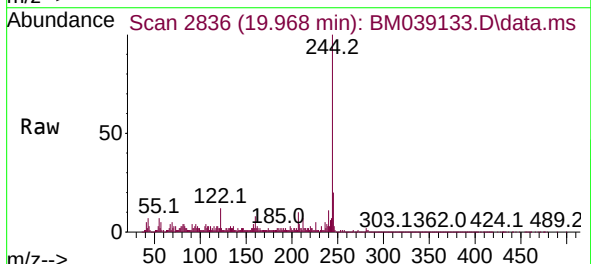
Reviewed By :Christian
Giraldo

03/24/2023
Supervised By :Jagrut
Upadhyay

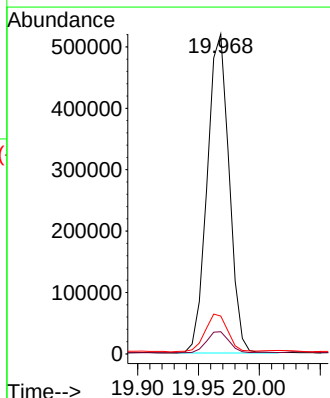
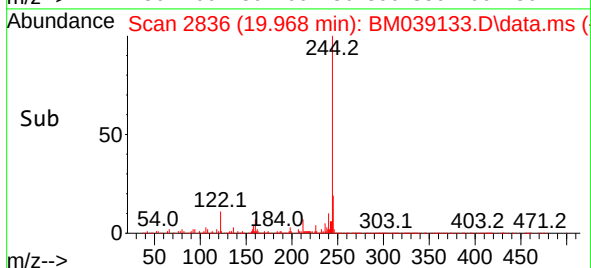
03/24/2023

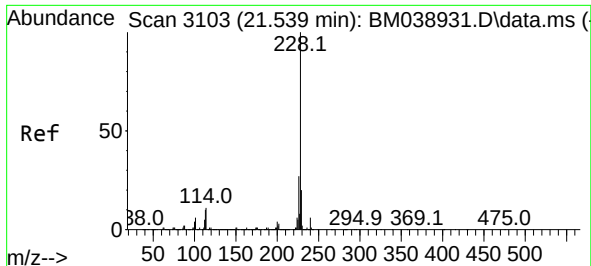


#79
Terphenyl-d14
Concen: 10.626 ng
RT: 19.968 min Scan# 2836
Delta R.T. 0.000 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44



Tgt Ion:244 Resp: 651487
Ion Ratio Lower Upper
244 100
212 6.9 5.5 8.3
122 11.8 9.0 13.4





#81
Benzo(a)anthracene
Concen: 21.525 ng
RT: 21.515 min Scan# 30
Delta R.T. 0.000 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL

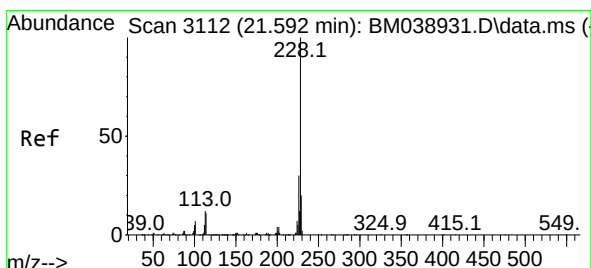
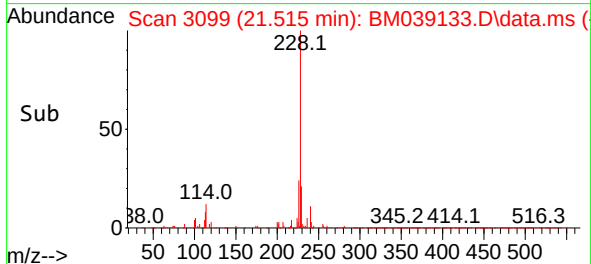
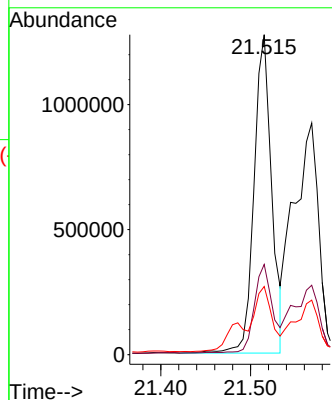
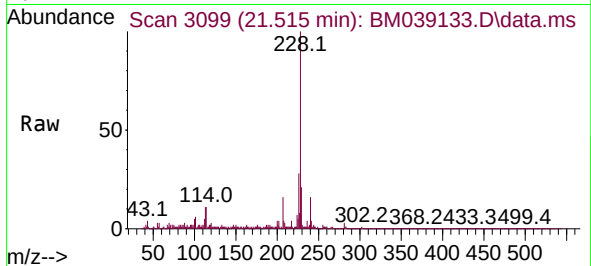
Tgt Ion:228 Resp: 1737720
Ion Ratio Lower Upper
228 100
226 28.2 21.4 32.2
229 21.3 15.7 23.5

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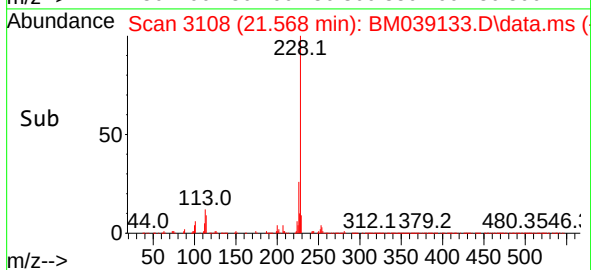
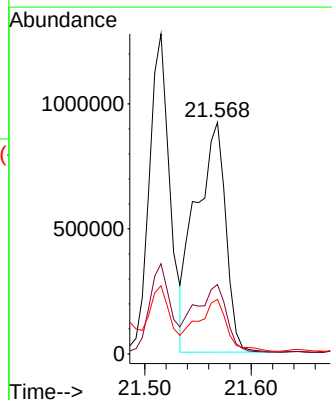
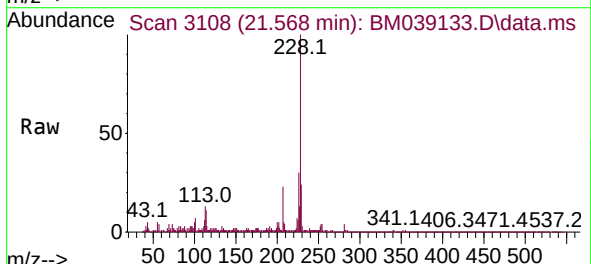
03/24/2023
Supervised By :Jagrut
Upadhyay

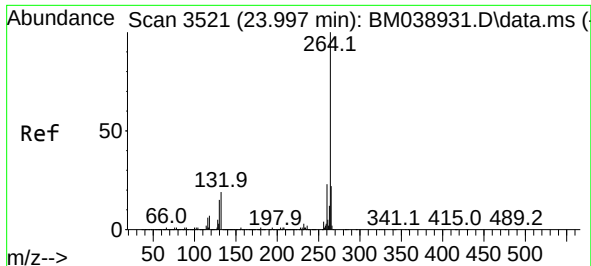
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#83
Chrysene
Concen: 22.851 ng
RT: 21.568 min Scan# 3108
Delta R.T. 0.000 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

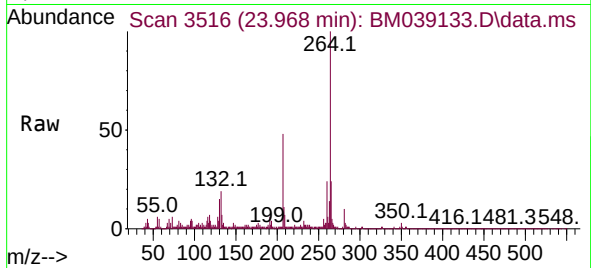
Tgt Ion:228 Resp: 1794124
Ion Ratio Lower Upper
228 100
226 29.9 24.0 36.0
229 23.6 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.968 min Scan# 3516
Delta R.T. 0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



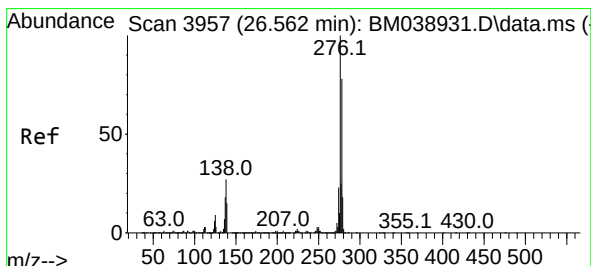
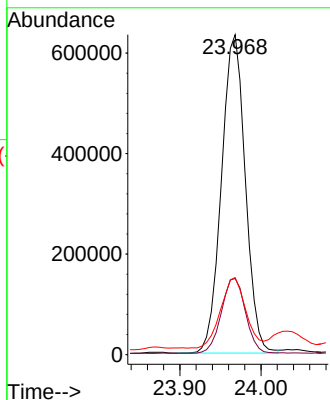
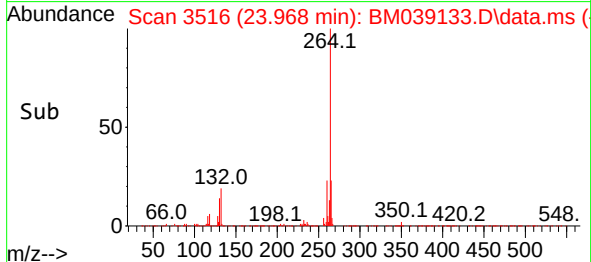
Tgt Ion:264 Resp: 1295496
Ion Ratio Lower Upper
264 100
260 23.8 18.7 28.1
265 24.1 17.9 26.9

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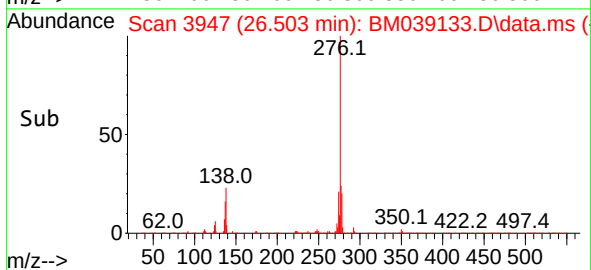
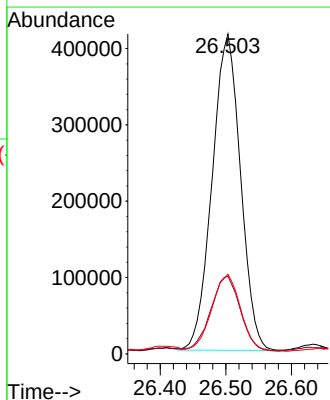
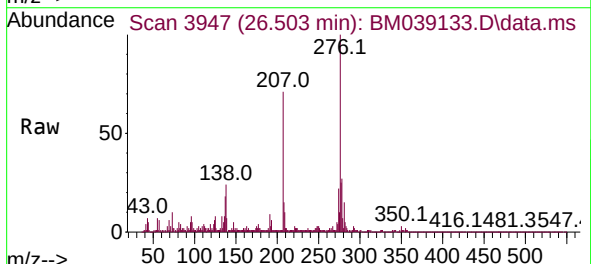
03/24/2023
Supervised By :Jagrut
Upadhyay

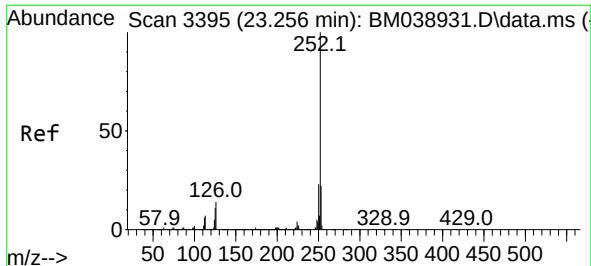
03/24/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 12.631 ng
RT: 26.503 min Scan# 3947
Delta R.T. 0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

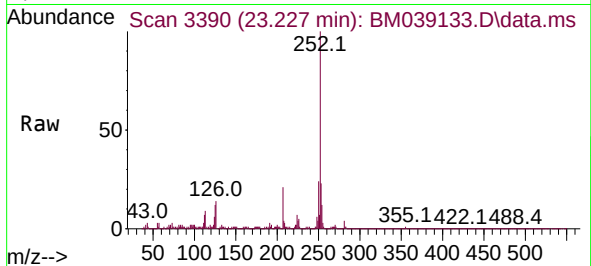
Tgt Ion:276 Resp: 1245134
Ion Ratio Lower Upper
276 100
138 24.5 22.1 33.1
277 24.7 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 41.413 ng
RT: 23.227 min Scan# 3395
Delta R.T. 0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



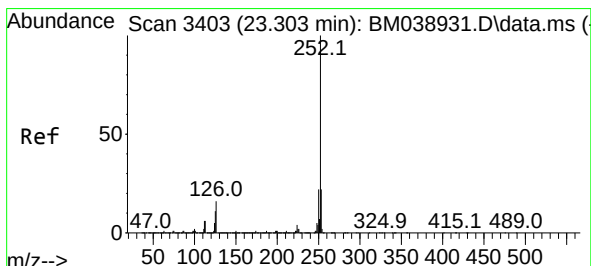
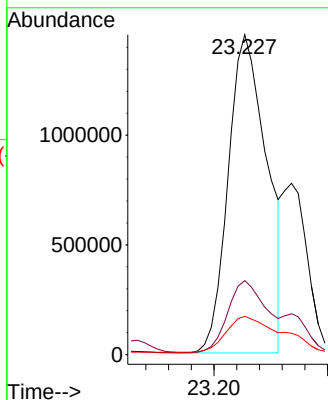
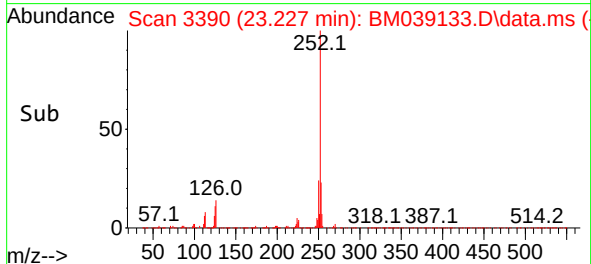
Tgt Ion:252 Resp: 3427549
Ion Ratio Lower Upper
252 100
253 23.1 17.6 26.4
125 12.0 8.8 13.2

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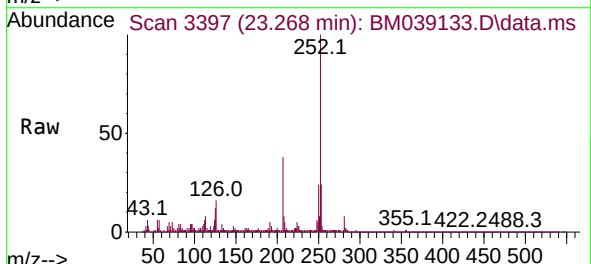
Reviewed By :Christian
Giraldo

03/24/2023
Supervised By :Jagrut
Upadhyay

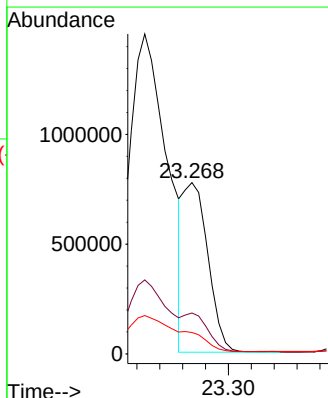
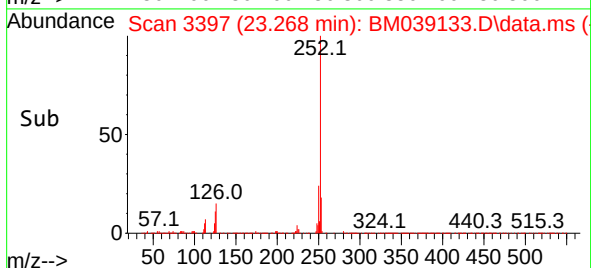
03/24/2023

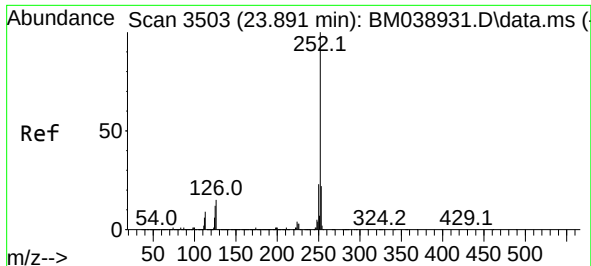


#89
Benzo(k)fluoranthene
Concen: 13.437 ng m
RT: 23.268 min Scan# 3397
Delta R.T. 0.000 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44



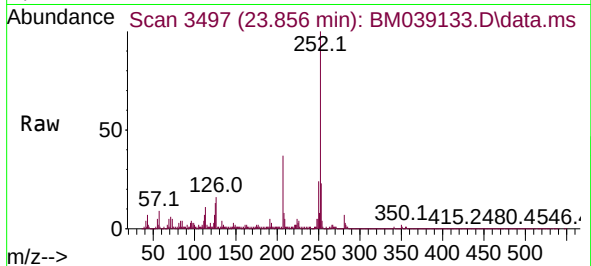
Tgt Ion:252 Resp: 1157392
Ion Ratio Lower Upper
252 100
253 23.9 17.5 26.3
125 12.5 8.9 13.3





#90
Benzo(a)pyrene
Concen: 20.357 ng
RT: 23.856 min Scan# 34
Delta R.T. 0.000 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Instrument :
BNA_M
ClientSampleId :
S-2DL



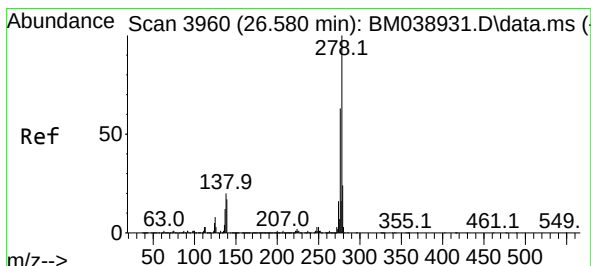
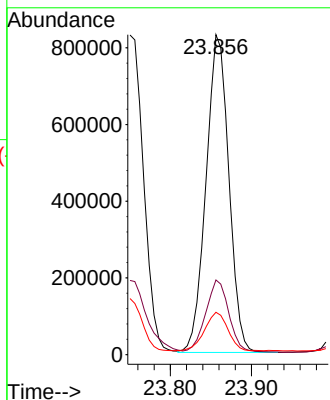
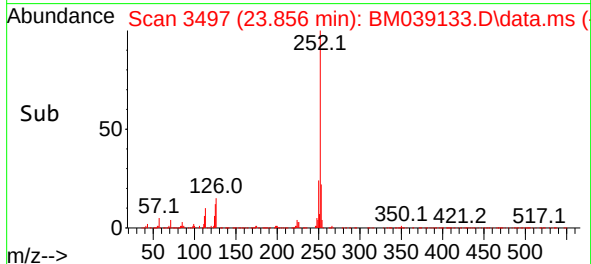
Tgt Ion:252 Resp: 1621536
Ion Ratio Lower Upper
252 100
253 23.3 17.6 26.4
125 13.2 9.8 14.8

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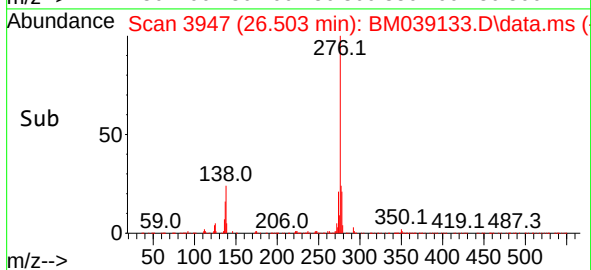
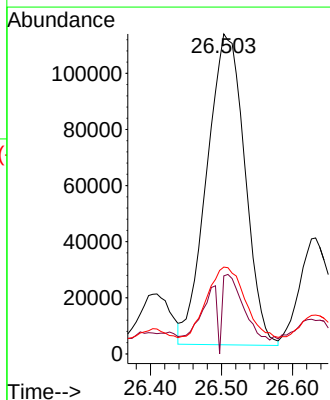
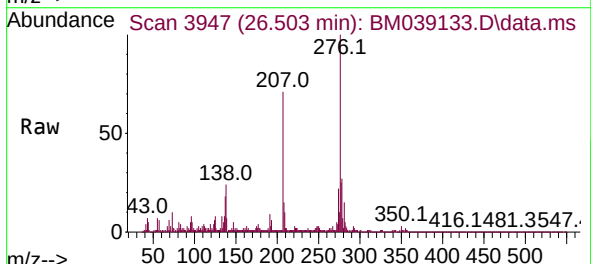
03/24/2023
Supervised By :Jagrut
Upadhyay

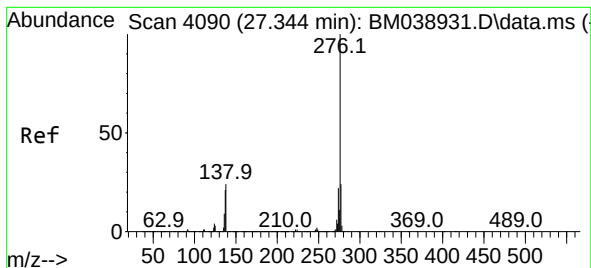
03/24/2023



#91
Dibenzo(a,h)anthracene
Concen: 4.924 ng
RT: 26.503 min Scan# 3947
Delta R.T. -0.006 min
Lab File: BM039133.D
Acq: 24 Mar 2023 01:44

Tgt Ion:278 Resp: 411094
Ion Ratio Lower Upper
278 100
139 24.4 13.7 20.5#
279 27.1 18.9 28.3





#92

Benzo(g,h,i)perylene

Concen: 13.935 ng

RT: 27.285 min Scan# 40

Delta R.T. 0.012 min

Lab File: BM039133.D

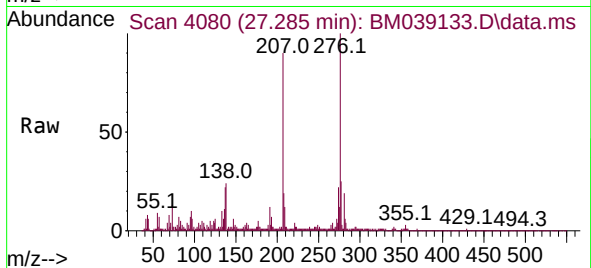
Acq: 24 Mar 2023 01:44

Instrument :

BNA_M

ClientSampleId :

S-2DL



Tgt Ion:276 Resp: 1138198

Ion Ratio Lower Upper

276 100

277 24.6 19.3 28.9

138 24.2 19.0 28.6

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Giraldo

03/24/2023

Supervised By :Jagrut
Upadhyay

03/24/2023

