

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041023\
 Data File : BM039384.D
 Acq On : 10 Apr 2023 19:14
 Operator : CG/JU
 Sample : 02260-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SP-1C

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/11/2023
 Supervised By : Jagrut Upadhyay 04/11/2023

Quant Time: Apr 11 02:13:49 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 11 02:05:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.869	152	223836	20.000	ng	0.00
21) Naphthalene-d8	10.681	136	917592	20.000	ng	0.00
39) Acenaphthene-d10	14.521	164	518408	20.000	ng	0.00
64) Phenanthrene-d10	17.274	188	967235	20.000	ng	0.00
76) Chrysene-d12	21.462	240	736624	20.000	ng	0.00
86) Perylene-d12	23.850	264	843310	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	1267894	85.340	ng	0.00
7) Phenol-d6	7.040	99	1774602	92.348	ng	0.00
23) Nitrobenzene-d5	9.039	82	960836	50.893	ng	0.00
42) 2,4,6-Tribromophenol	16.015	330	482716	73.353	ng	0.00
45) 2-Fluorobiphenyl	13.145	172	1846267	48.254	ng	0.00
79) Terphenyl-d14	19.898	244	2347202	58.871	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.728	128	242824	4.911	ng	99
37) 2-Methylnaphthalene	12.345	142	86436	2.511	ng	96
38) 1-Methylnaphthalene	12.563	142	74580	2.314	ng	99
52) Acenaphthene	14.586	154	226387	7.526	ng	100
55) Dibenzofuran	14.921	168	331106	6.837	ng	96
58) Fluorene	15.568	166	281425	7.338	ng	99
71) Phenanthrene	17.315	178	5555665	104.875	ng	99
72) Anthracene	17.404	178	1043092	19.311	ng	99
73) Carbazole	17.680	167	464329	9.199	ng	100
75) Fluoranthene	19.333	202	6261793	103.696	ng	98
78) Pyrene	19.698	202	4940965	94.222	ng	99
81) Benzo(a)anthracene	21.445	228	2313827	44.538	ng	99
83) Chrysene	21.497	228	2273287	45.328	ng	97
87) Indeno(1,2,3-cd)pyrene	26.321	276	1027805	16.541	ng	95
88) Benzo(b)fluoranthene	23.127	252	2503803	48.523	ng	98
89) Benzo(k)fluoranthene	23.168	252	839495m	15.972	ng	
90) Benzo(a)pyrene	23.744	252	1650057	32.552	ng	99
91) Dibenzo(a,h)anthracene	26.327	278	286458m	5.490	ng	
92) Benzo(g,h,i)perylene	27.085	276	913810	17.810	ng	99

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

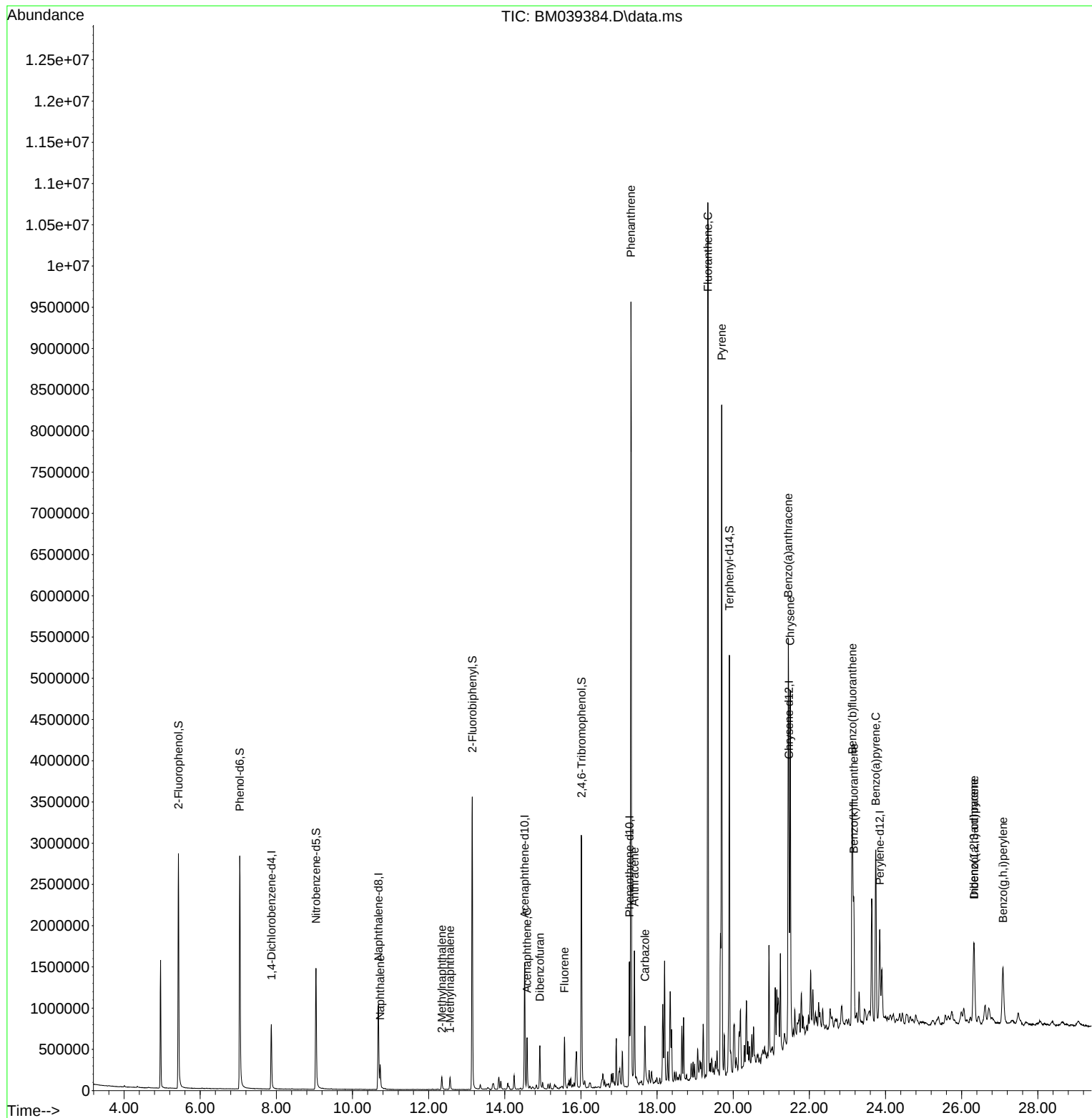
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041023\
Data File : BM039384.D
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Operator : CG/JU
Sample : 02260-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

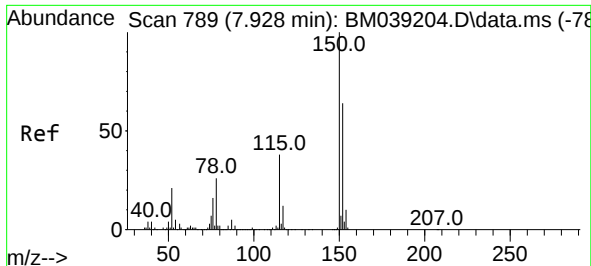
Instrument :
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Quant Time: Apr 11 02:13:49 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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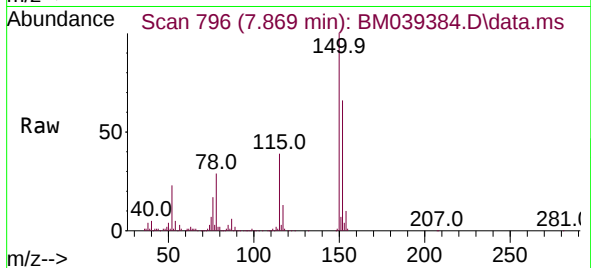
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.869 min Scan# 796
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

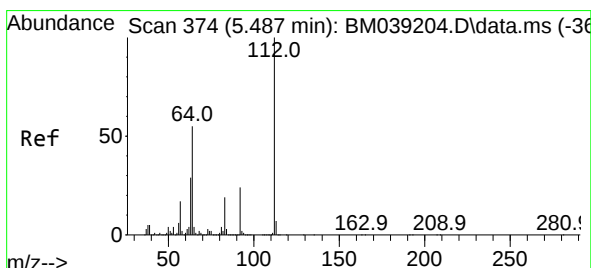
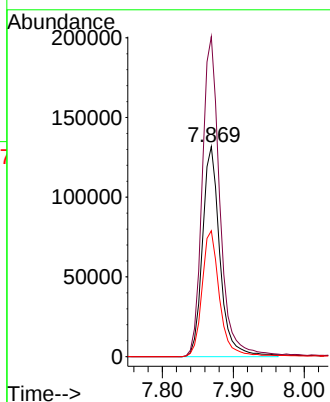
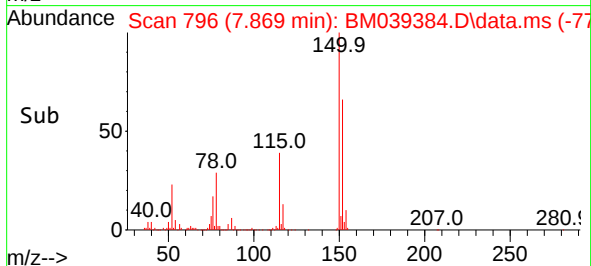
Instrument :
BNA_M
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SP-1C



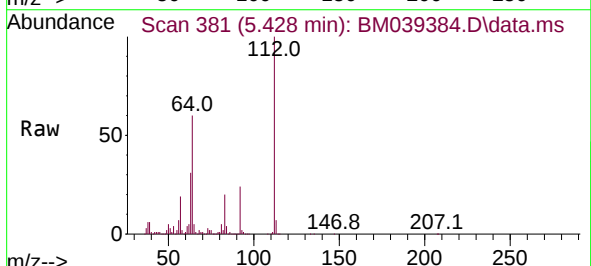
Tgt Ion:152 Resp: 223836
Ion Ratio Lower Upper
152 100
150 152.4 125.5 188.3
115 59.9 48.1 72.1

Manual Integrations
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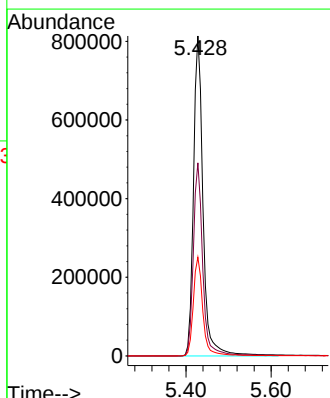
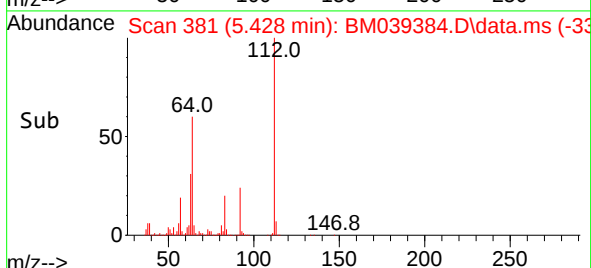
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023

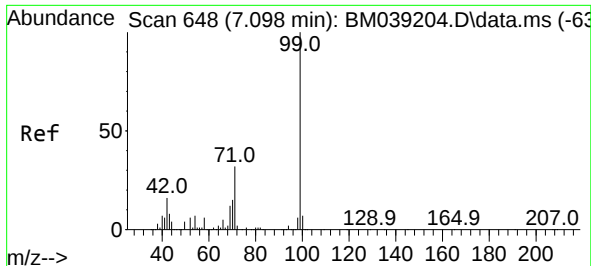


#5
2-Fluorophenol
Concen: 85.340 ng
RT: 5.428 min Scan# 381
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14



Tgt Ion:112 Resp: 1267894
Ion Ratio Lower Upper
112 100
64 60.3 44.3 66.5
63 30.8 23.0 34.6





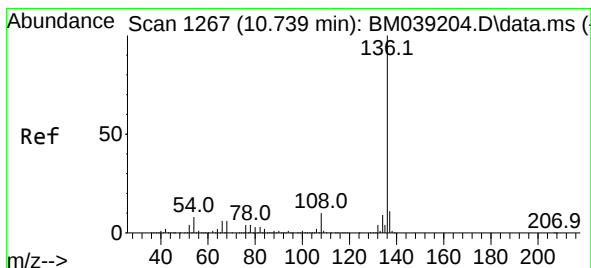
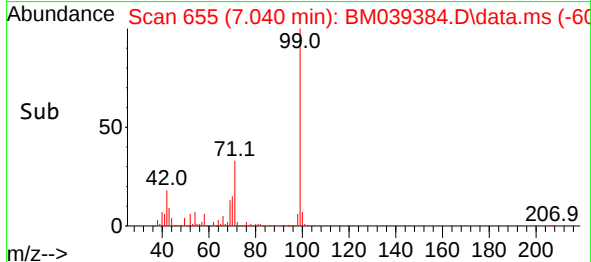
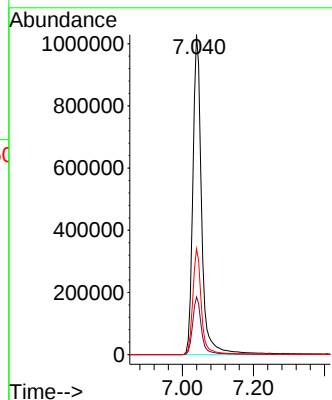
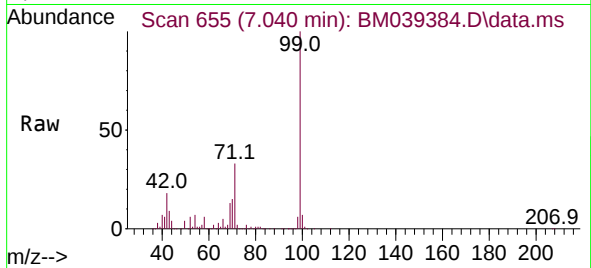
#7
Phenol-d6
Concen: 92.348 ng
RT: 7.040 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Instrument :
BNA_M
ClientSampleId :
SP-1C

Tgt Ion: 99 Resp: 1774602
Ion Ratio Lower Upper
99 100
42 18.0 13.0 19.6
71 33.1 25.5 38.3

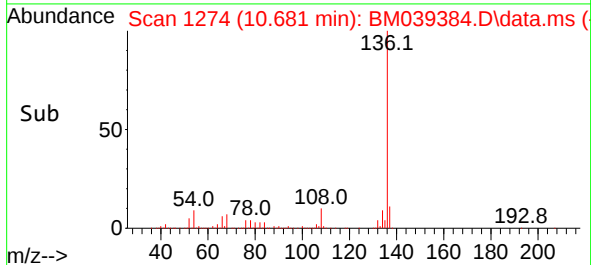
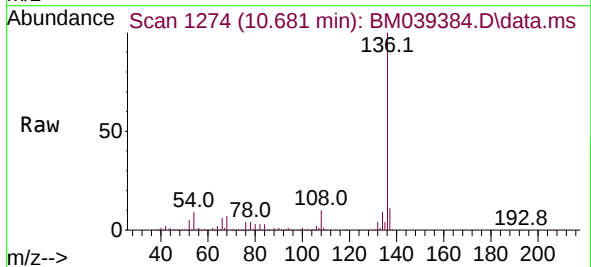
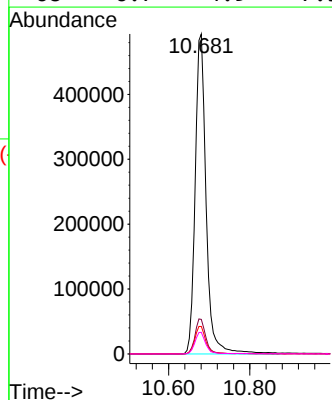
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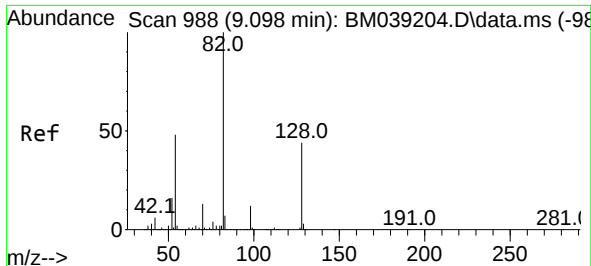
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.681 min Scan# 1274
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

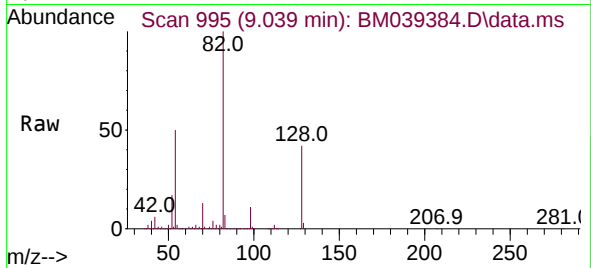
Tgt Ion:136 Resp: 917592
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 8.6 6.2 9.4
68 6.7 4.9 7.3





#23
Nitrobenzene-d5
Concen: 50.893 ng
RT: 9.039 min Scan# 995
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

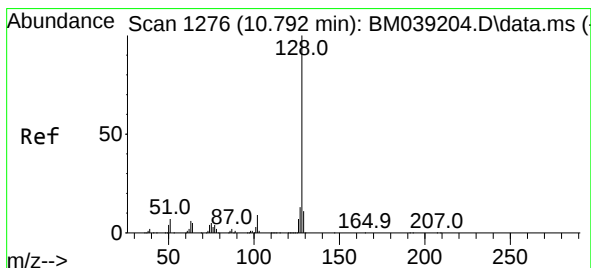
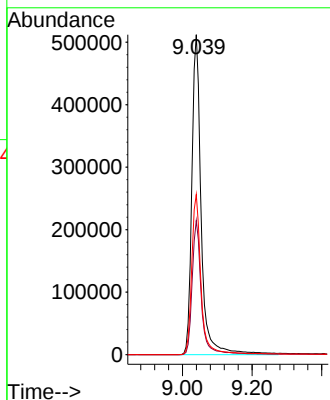
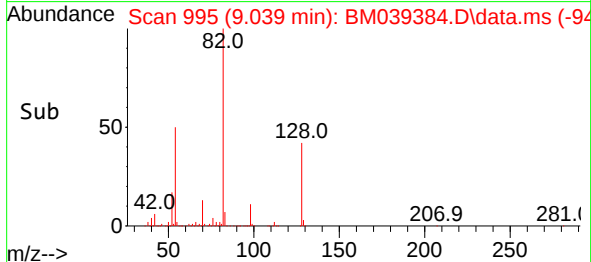
Instrument :
BNA_M
ClientSampleId :
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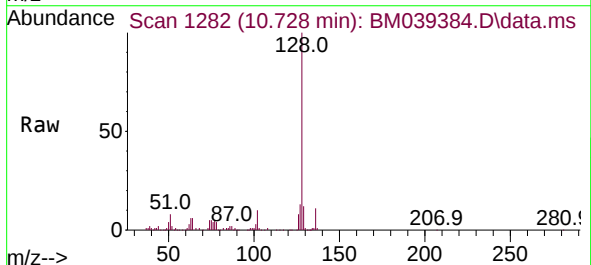
Tgt Ion: 82 Resp: 960836
Ion Ratio Lower Upper
82 100
128 41.9 35.1 52.7
54 50.0 38.5 57.7

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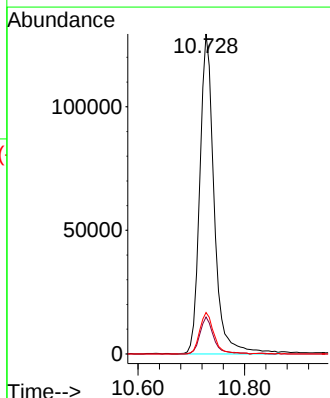
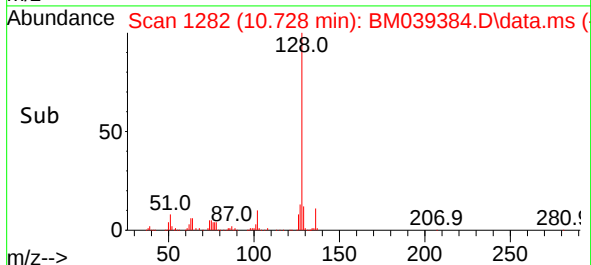
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023

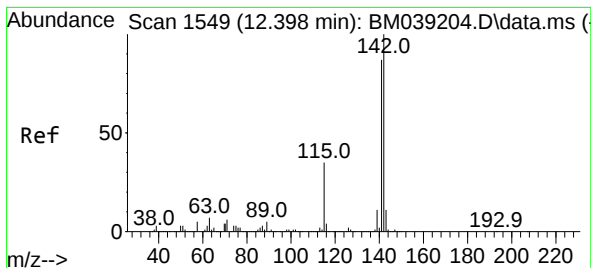


#31
Naphthalene
Concen: 4.911 ng
RT: 10.728 min Scan# 1282
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14



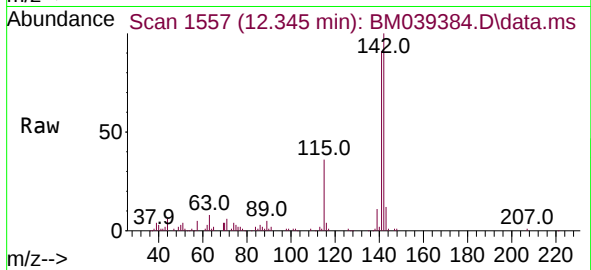
Tgt Ion:128 Resp: 242824
Ion Ratio Lower Upper
128 100
129 11.5 8.6 13.0
127 12.9 10.3 15.5





#37
2-Methylnaphthalene
Concen: 2.511 ng
RT: 12.345 min Scan# 1557
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

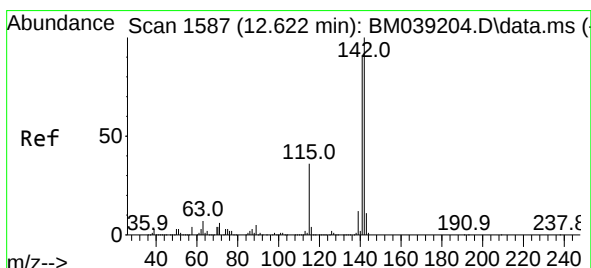
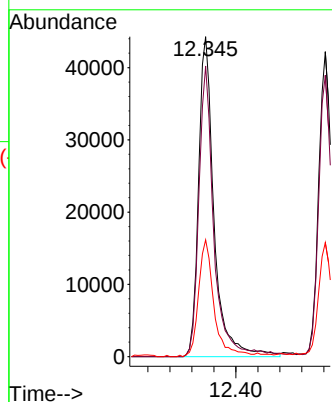
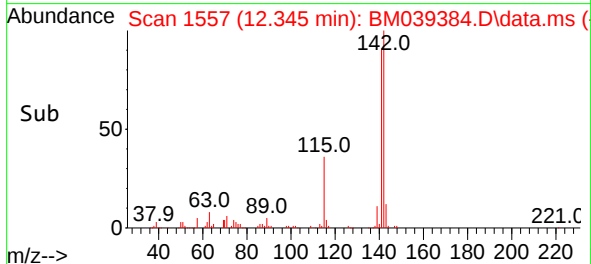
Instrument :
BNA_M
ClientSampleId :
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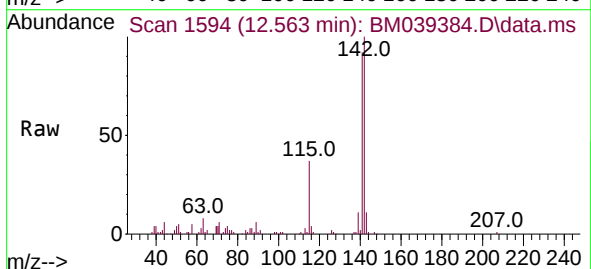
Tgt Ion:142 Resp: 86436
Ion Ratio Lower Upper
142 100
141 90.8 69.8 104.8
115 36.5 27.8 41.8

Manual Integrations
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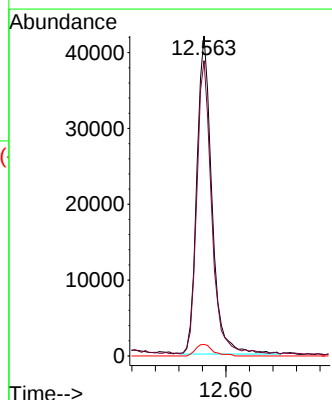
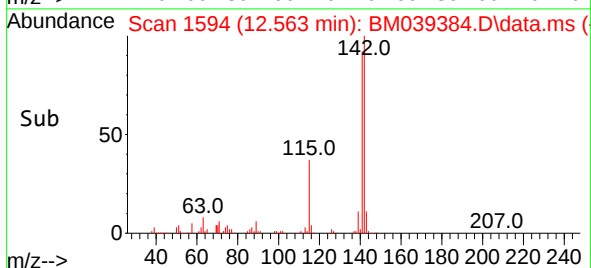
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023

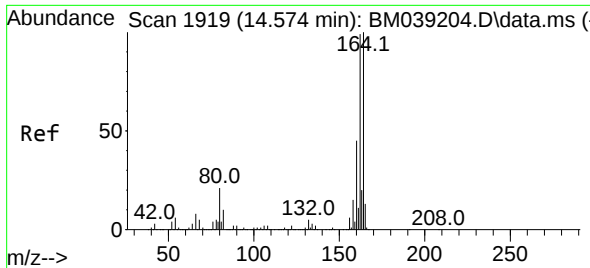


#38
1-Methylnaphthalene
Concen: 2.314 ng
RT: 12.563 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14



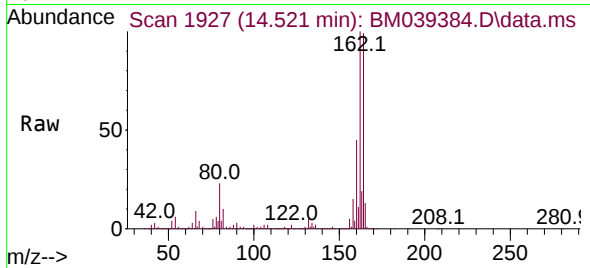
Tgt Ion:142 Resp: 74580
Ion Ratio Lower Upper
142 100
141 92.3 73.2 109.8
116 3.6 3.0 4.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.521 min Scan# 1919
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

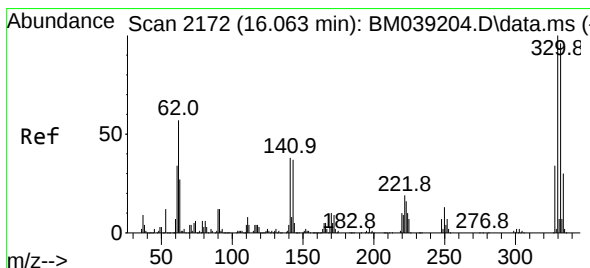
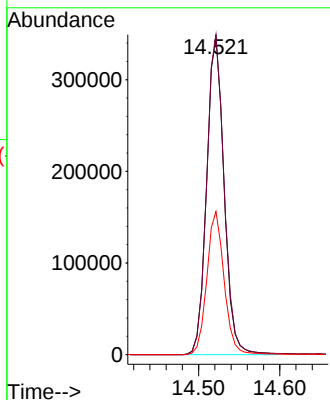
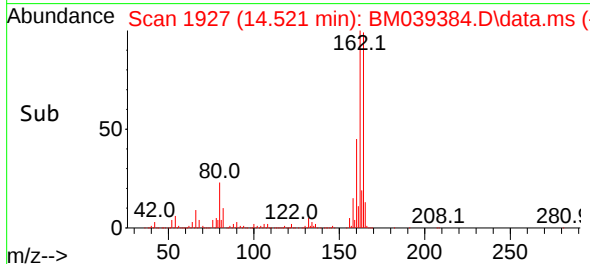
Instrument :
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ClientSampleId :
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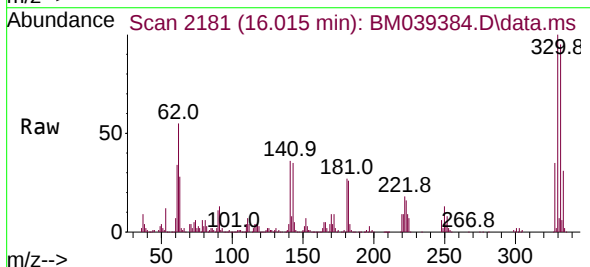
Tgt Ion:164 Resp: 518408
Ion Ratio Lower Upper
164 100
162 100.9 79.1 118.7
160 45.1 35.8 53.8

Manual Integrations
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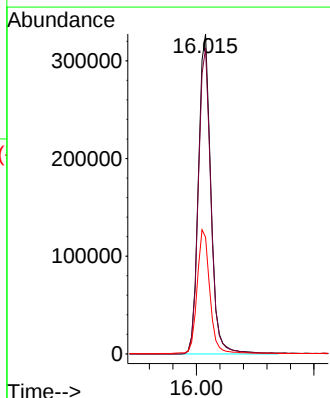
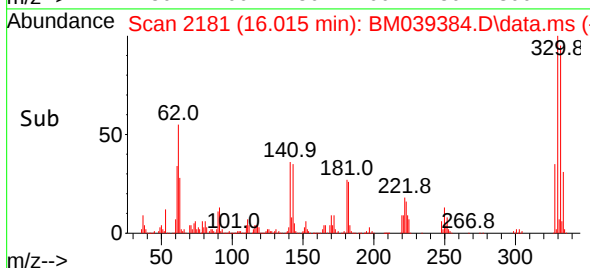
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023

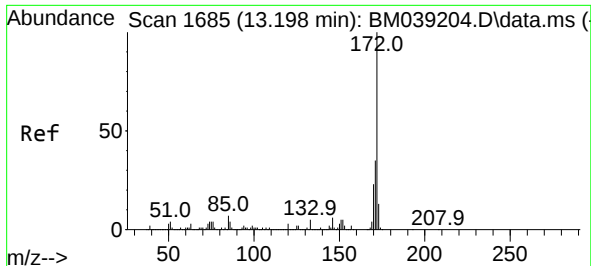


#42
2,4,6-Tribromophenol
Concen: 73.353 ng
RT: 16.015 min Scan# 2181
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14



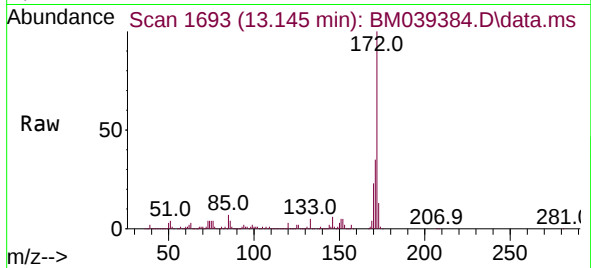
Tgt Ion:330 Resp: 482716
Ion Ratio Lower Upper
330 100
332 95.9 77.4 116.0
141 39.7 29.8 44.6





#45
2-Fluorobiphenyl
Concen: 48.254 ng
RT: 13.145 min Scan# 1685
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

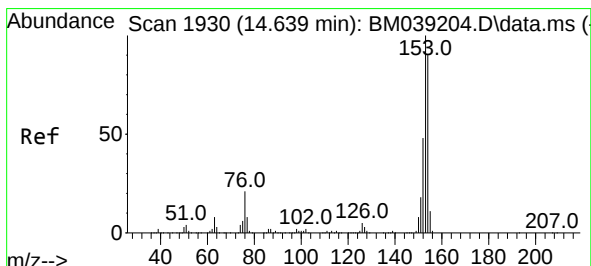
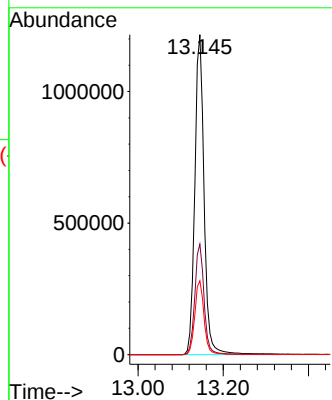
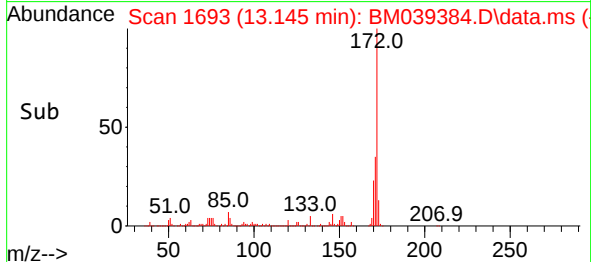
Instrument :
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Tgt Ion:172 Resp: 184626
Ion Ratio Lower Upper
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171 34.5 28.0 42.0
170 23.1 18.7 28.1

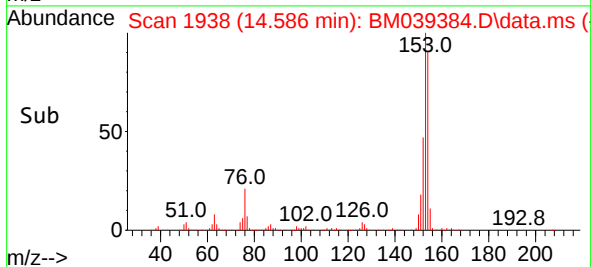
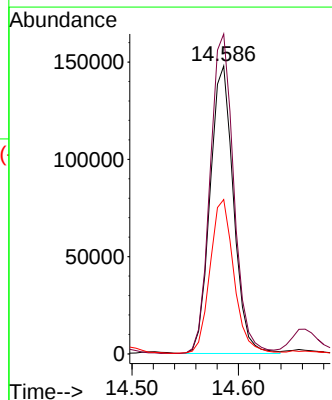
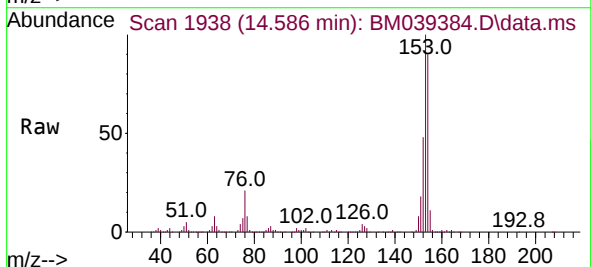
Manual Integrations
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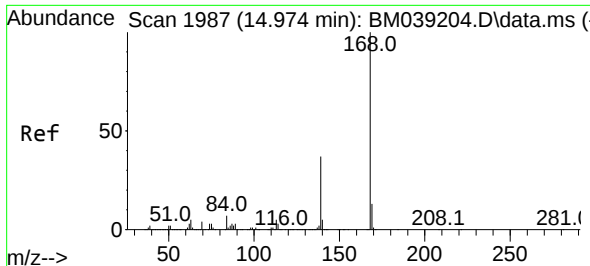
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023



#52
Acenaphthene
Concen: 7.526 ng
RT: 14.586 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

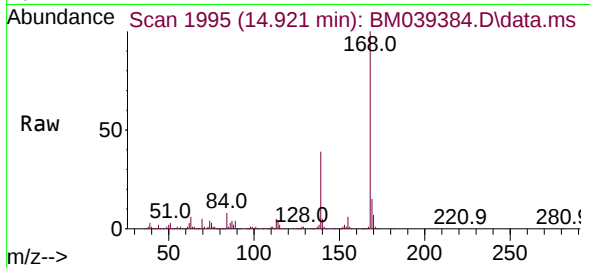
Tgt Ion:154 Resp: 226387
Ion Ratio Lower Upper
154 100
153 111.2 89.1 133.7
152 53.6 42.6 64.0





#55
Dibenzenofuran
Concen: 6.837 ng
RT: 14.921 min Scan# 1987
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

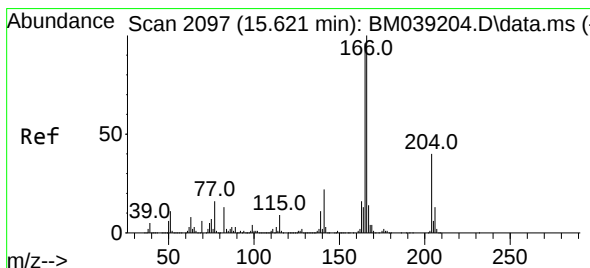
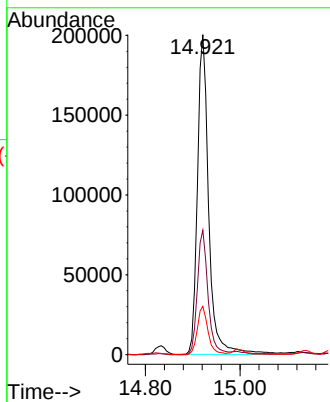
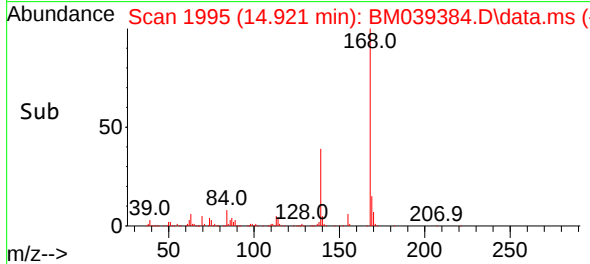
Instrument :
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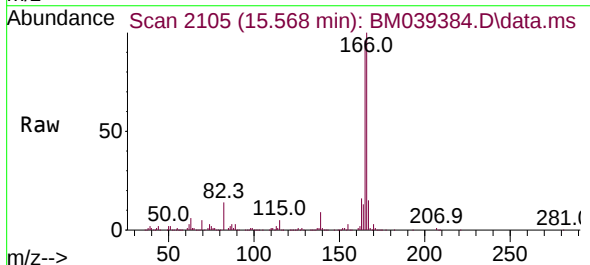
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Ion Ratio Lower Upper
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169 15.1 10.6 15.8

Manual Integrations
APPROVED

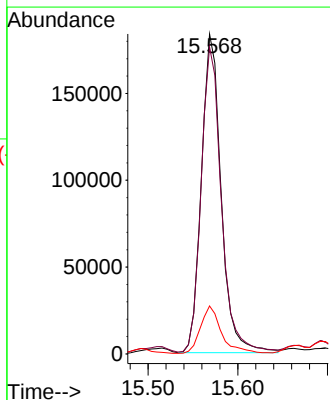
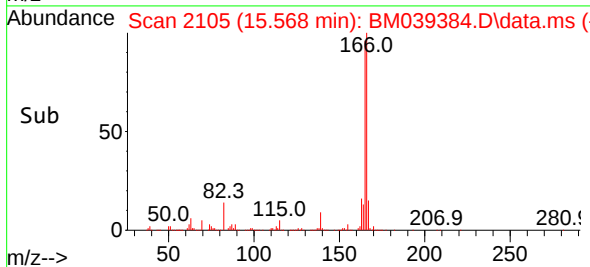
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023

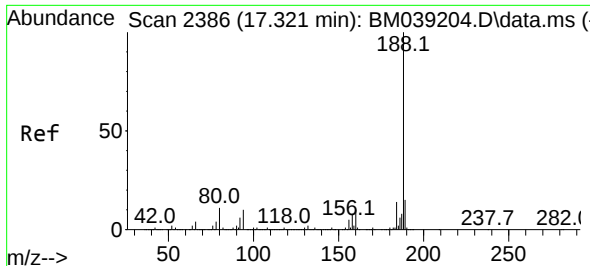


#58
Fluorene
Concen: 7.338 ng
RT: 15.568 min Scan# 2105
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14



Tgt Ion:166 Resp: 281425
Ion Ratio Lower Upper
166 100
165 95.9 76.9 115.3
167 15.0 10.8 16.2





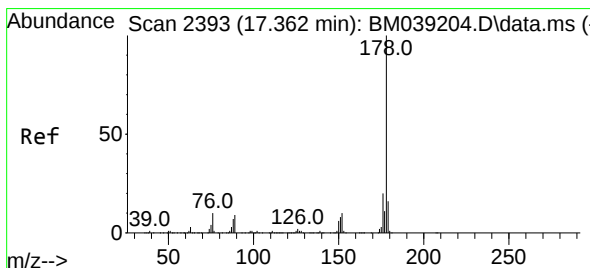
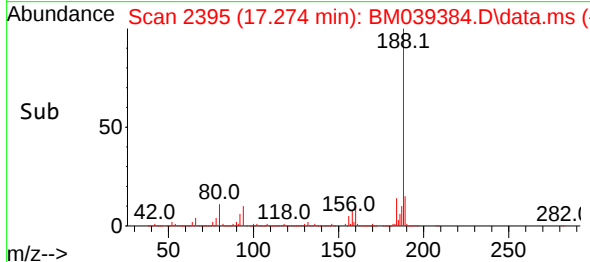
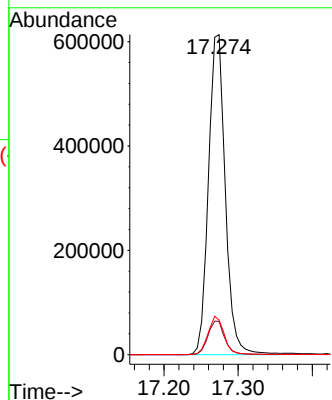
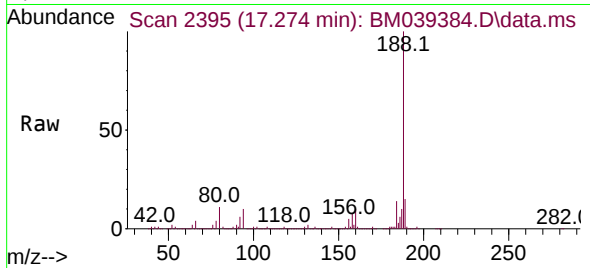
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.274 min Scan# 2400
Delta R.T. 0.006 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Instrument :
BNA_M
ClientSampleId :
SP-1C

Tgt Ion:188 Resp: 967235
Ion Ratio Lower Upper
188 100
94 10.4 8.2 12.4
80 10.8 8.9 13.3

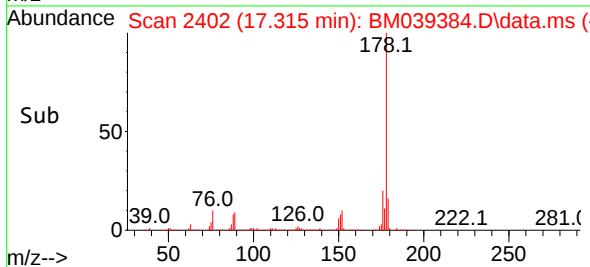
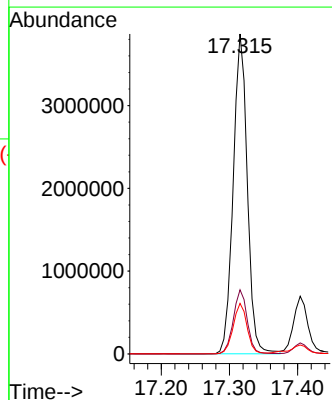
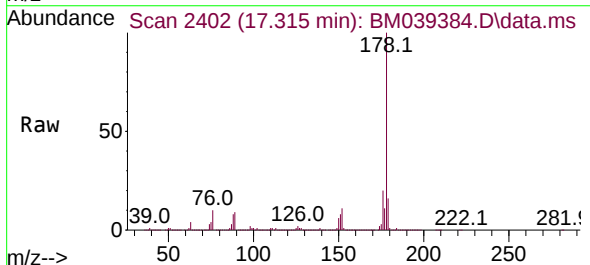
Manual Integrations
APPROVED

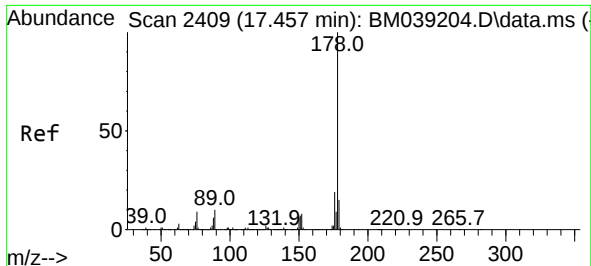
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023



#71
Phenanthrene
Concen: 104.875 ng
RT: 17.315 min Scan# 2402
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:178 Resp: 5555665
Ion Ratio Lower Upper
178 100
176 20.0 15.7 23.5
179 15.8 12.4 18.6





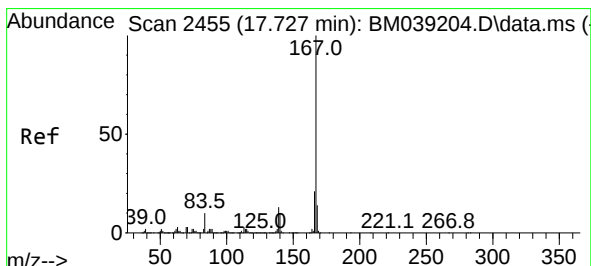
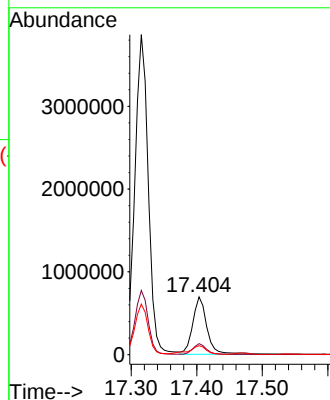
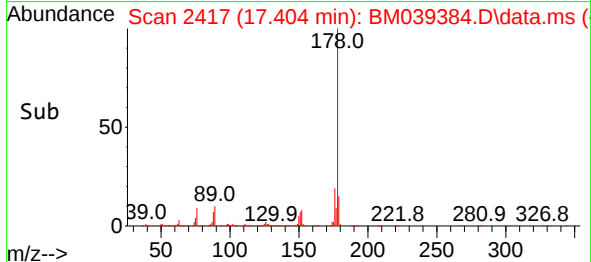
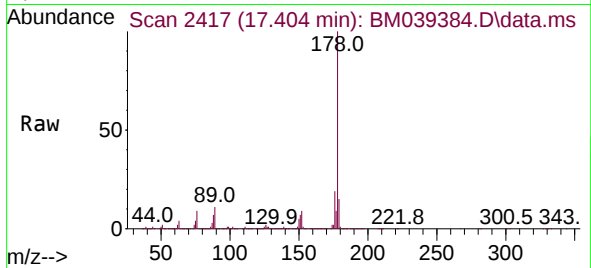
#72
 Anthracene
 Concen: 19.311 ng
 RT: 17.404 min Scan# 2409
 Delta R.T. -0.000 min
 Lab File: BM039384.D
 Acq: 10 Apr 2023 19:14

Instrument :
 BNA_M
 ClientSampleId :
 SP-1C

Tgt Ion:178 Resp: 1043092
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.9 22.3
 179 15.4 12.2 18.2

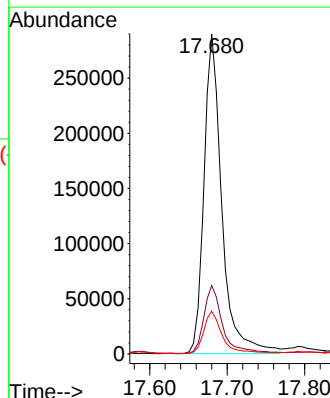
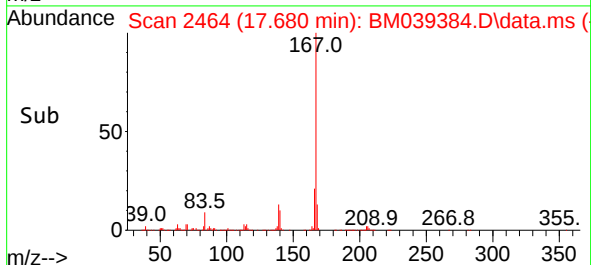
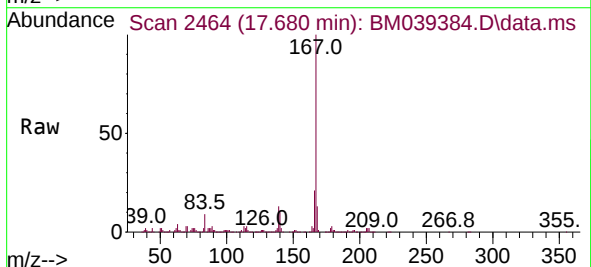
Manual Integrations
 APPROVED

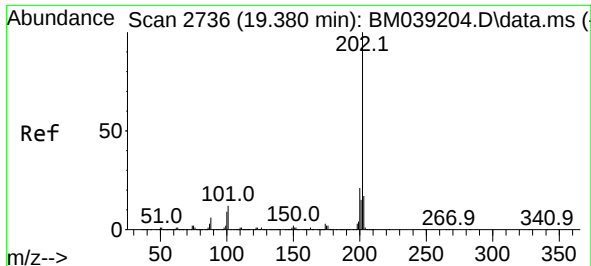
Reviewed By :Christian Giraldo 04/11/2023
 Supervised By :Jagrut Upadhyay 04/11/2023



#73
 Carbazole
 Concen: 9.199 ng
 RT: 17.680 min Scan# 2464
 Delta R.T. -0.000 min
 Lab File: BM039384.D
 Acq: 10 Apr 2023 19:14

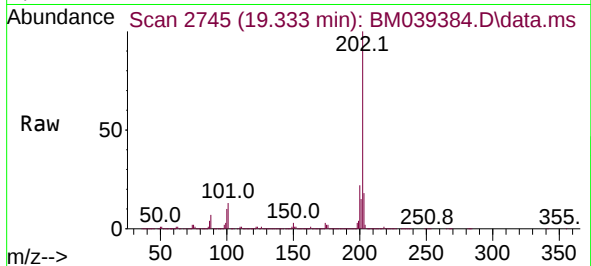
Tgt Ion:167 Resp: 464329
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.2 25.8
 139 13.3 10.6 16.0





#75
Fluoranthene
Concen: 103.696 ng
RT: 19.333 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

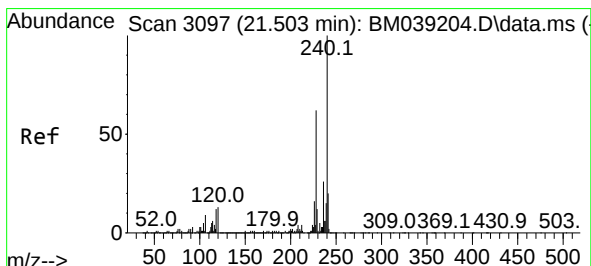
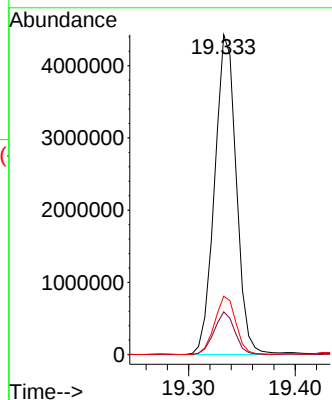
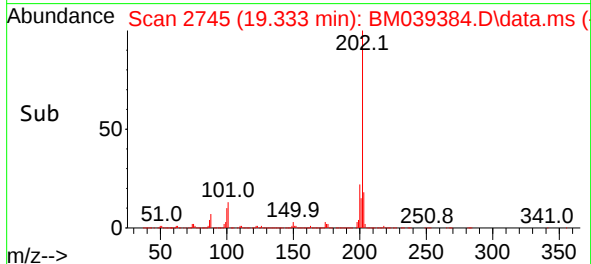
Instrument :
BNA_M
ClientSampleId :
SP-1C



Tgt Ion:202 Resp: 6261793
Ion Ratio Lower Upper
202 100
101 13.4 0.0 32.5
203 18.2 0.0 37.5

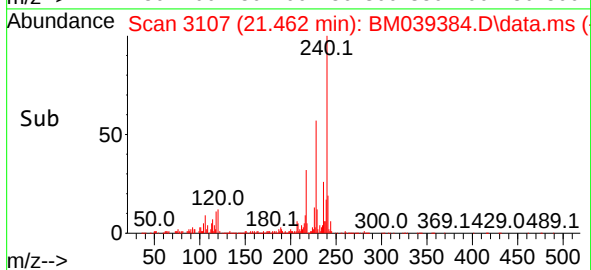
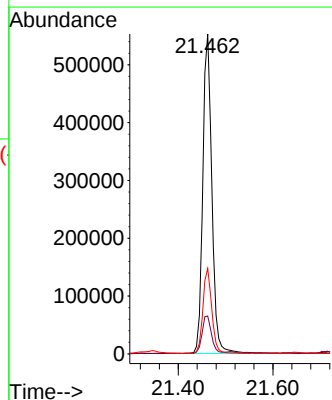
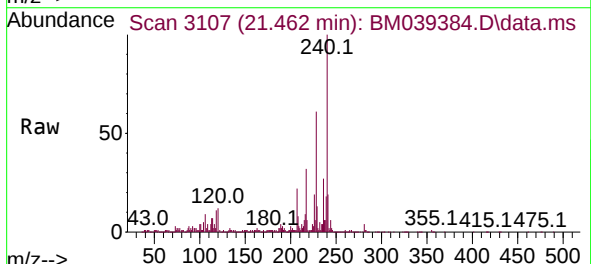
Manual Integrations
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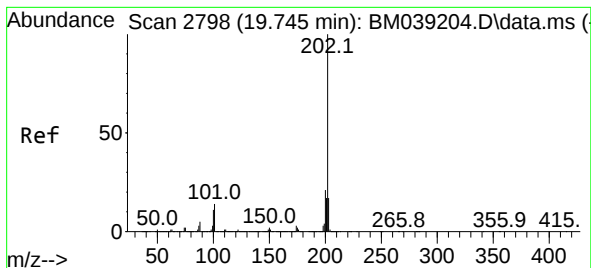
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.462 min Scan# 3107
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:240 Resp: 736624
Ion Ratio Lower Upper
240 100
120 11.8 10.2 15.2
236 26.7 20.9 31.3





#78

Pyrene

Concen: 94.222 ng

RT: 19.698 min Scan# 2841

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

Instrument :

BNA_M

ClientSampleId :

SP-1C

Tgt Ion:202 Resp: 494096

Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

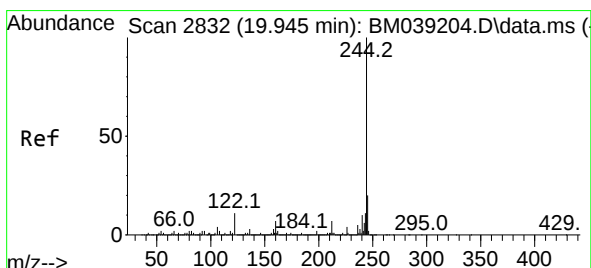
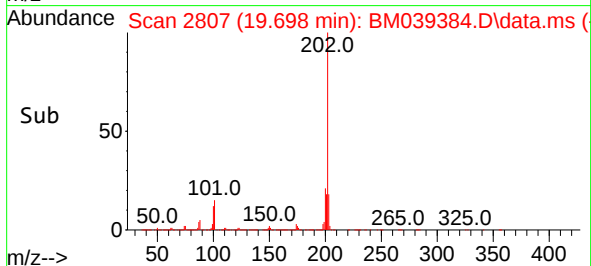
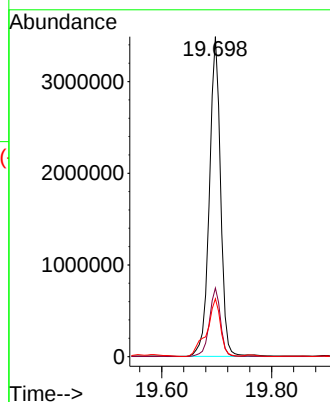
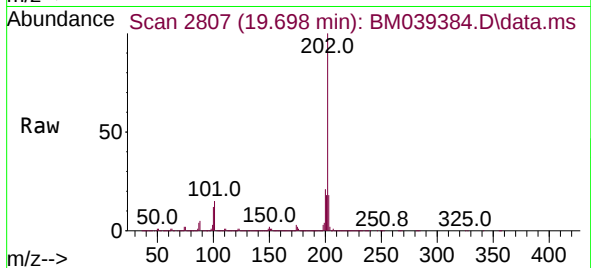
203 18.1 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/11/2023

Supervised By :Jagrut Upadhyay 04/11/2023



#79

Terphenyl-d14

Concen: 58.871 ng

RT: 19.898 min Scan# 2841

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

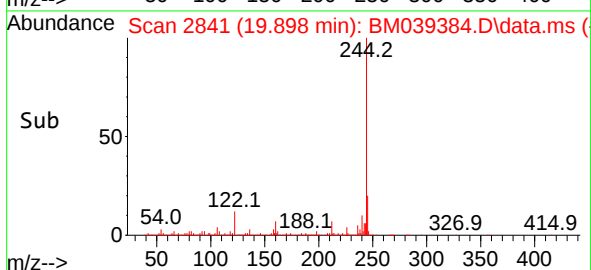
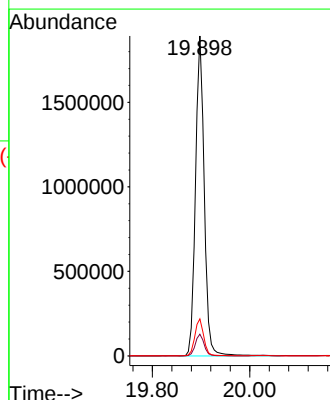
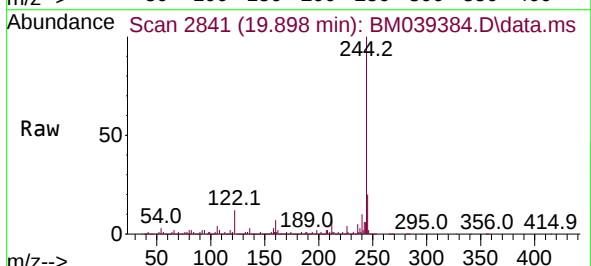
Tgt Ion:244 Resp: 2347202

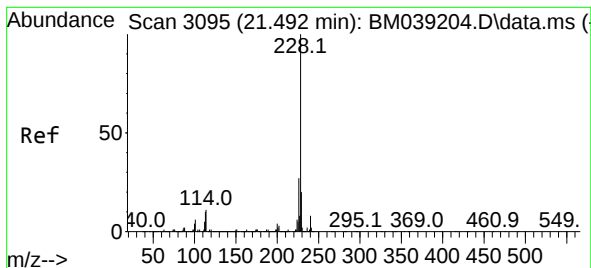
Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 11.6 9.1 13.7





#81

Benzo(a)anthracene

Concen: 44.538 ng

RT: 21.445 min Scan# 3113

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

Instrument :

BNA_M

ClientSampleId :

SP-1C

Tgt Ion:228 Resp: 231382

Ion Ratio Lower Upper

228 100

226 27.2 21.9 32.9

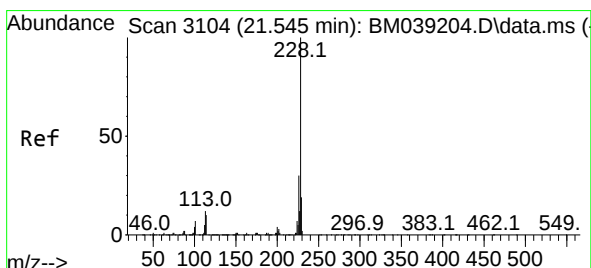
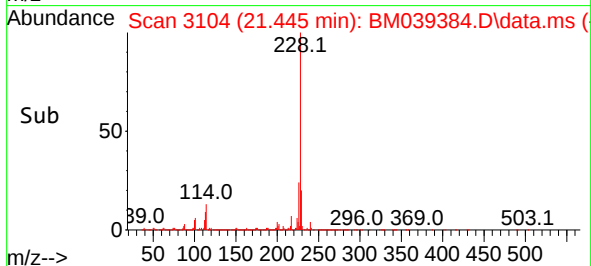
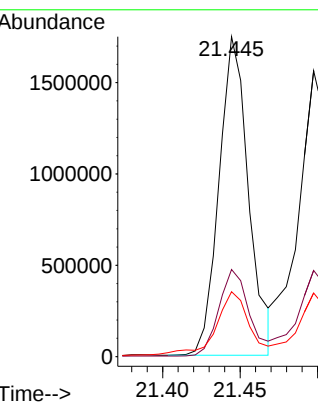
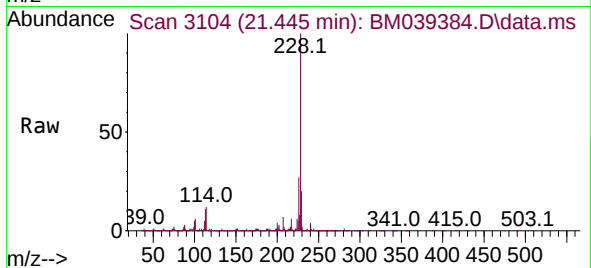
229 20.3 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/11/2023

Supervised By :Jagrut Upadhyay 04/11/2023



#83

Chrysene

Concen: 45.328 ng

RT: 21.497 min Scan# 3113

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

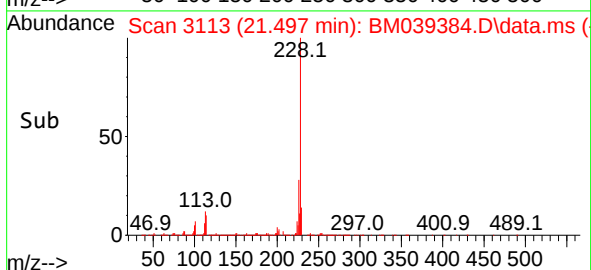
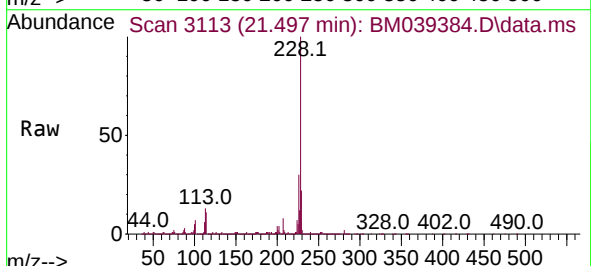
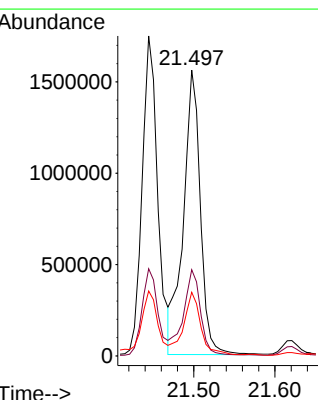
Tgt Ion:228 Resp: 2273287

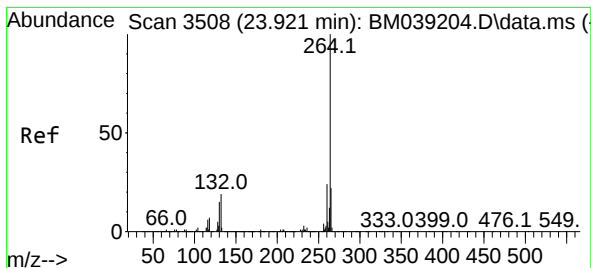
Ion Ratio Lower Upper

228 100

226 30.2 24.1 36.1

229 22.3 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.850 min Scan# 3508

Delta R.T. 0.006 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

Instrument :

BNA_M

ClientSampleId :

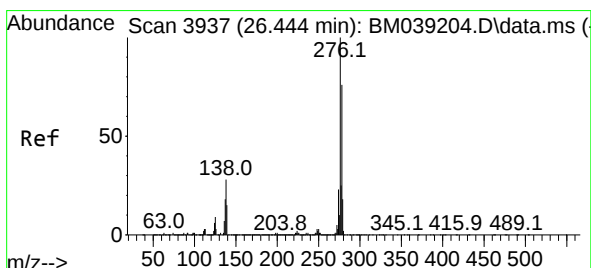
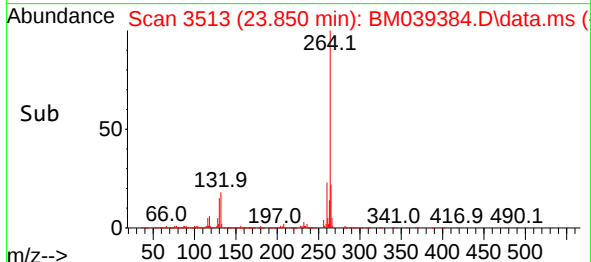
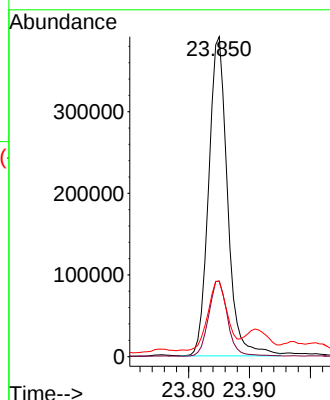
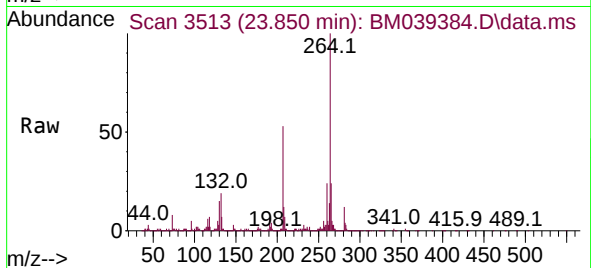
SP-1C

Tgt Ion:	264	Resp:	843310
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.0	28.6
265	23.5	18.1	27.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 16.541 ng

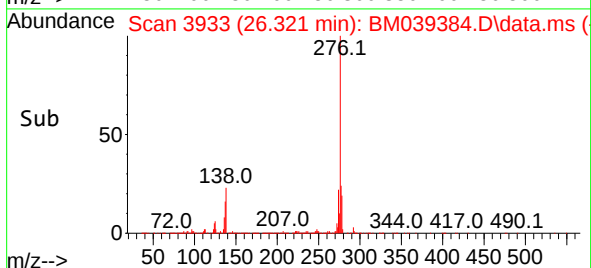
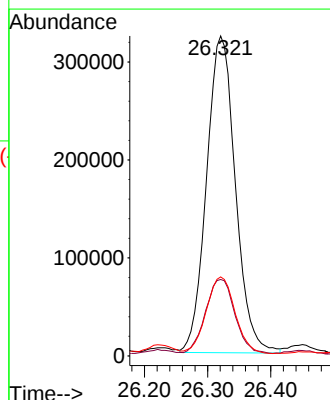
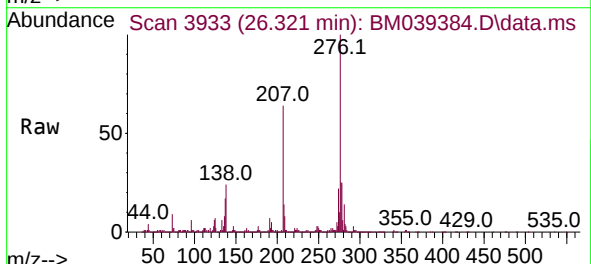
RT: 26.321 min Scan# 3933

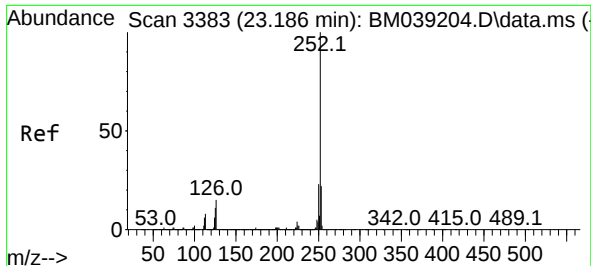
Delta R.T. -0.006 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

Tgt Ion:	276	Resp:	1027805
Ion Ratio	Lower	Upper	
276	100		
138	24.2	22.2	33.2
277	24.1	20.2	30.2





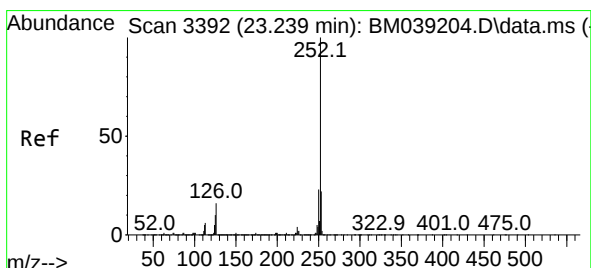
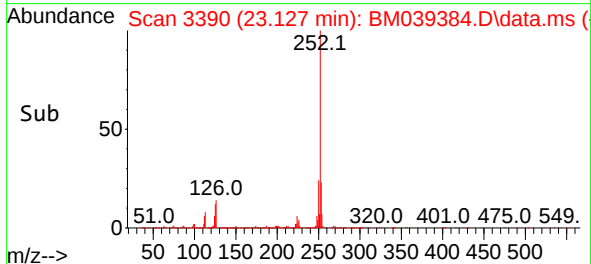
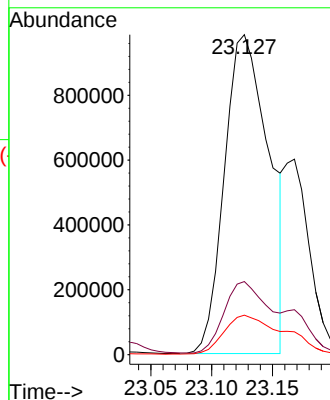
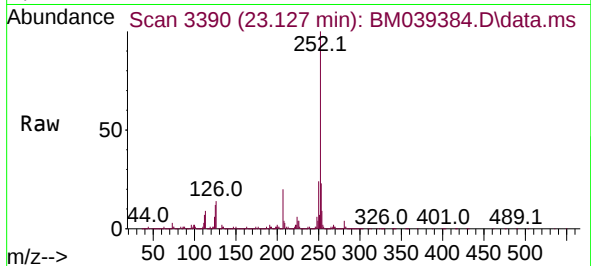
#88
Benzo(b)fluoranthene
Concen: 48.523 ng
RT: 23.127 min Scan# 3383
Delta R.T. 0.006 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Instrument :
BNA_M
ClientSampleId :
SP-1C

Tgt Ion:252 Resp: 2503803
Ion Ratio Lower Upper
252 100
253 22.8 17.6 26.4
125 12.3 9.0 13.6

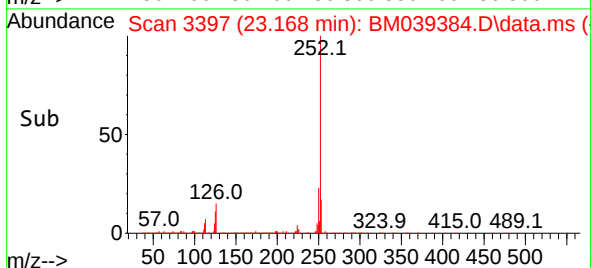
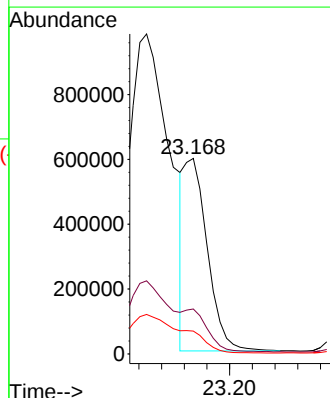
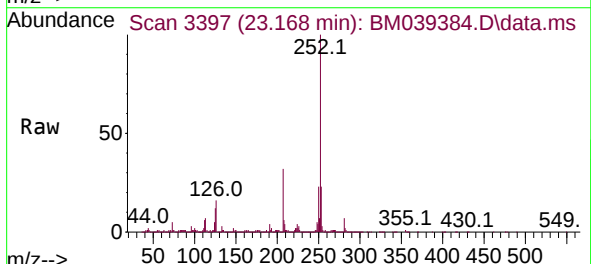
Manual Integrations
APPROVED

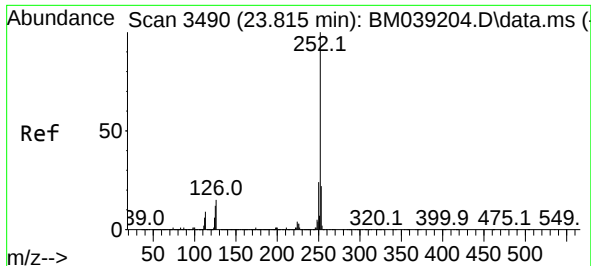
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023



#89
Benzo(k)fluoranthene
Concen: 15.972 ng m
RT: 23.168 min Scan# 3397
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

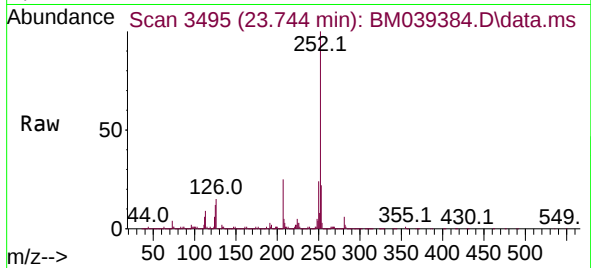
Tgt Ion:252 Resp: 839495
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 11.7 8.5 12.7





#90
Benzo(a)pyrene
Concen: 32.552 ng
RT: 23.744 min Scan# 3495
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

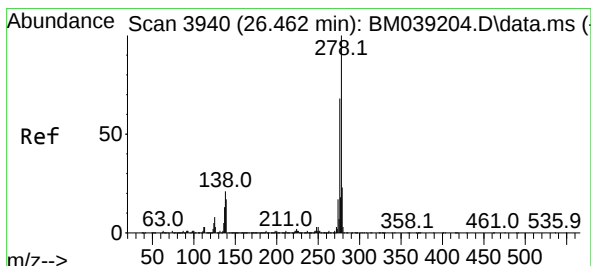
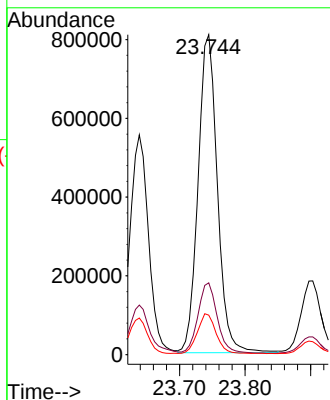
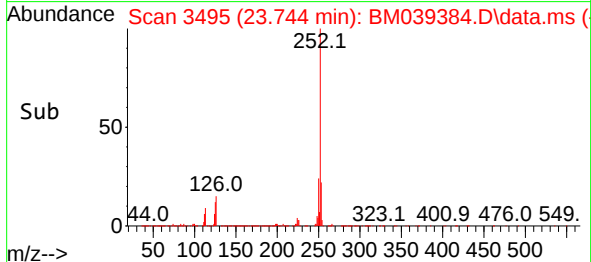
Instrument :
BNA_M
ClientSampleId :
SP-1C



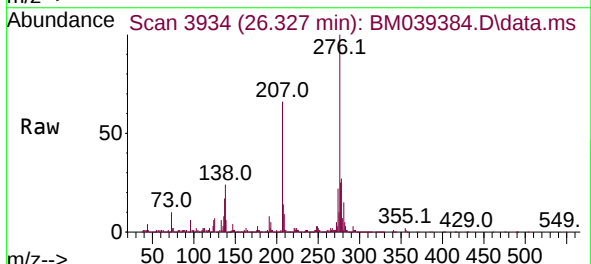
Tgt Ion:252 Resp: 165005
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 12.3 9.8 14.6

Manual Integrations
APPROVED

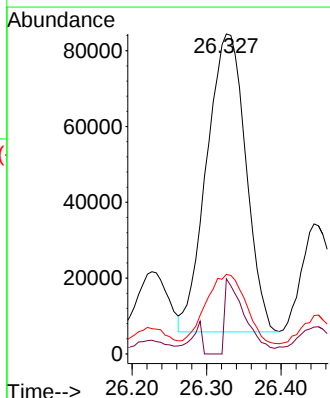
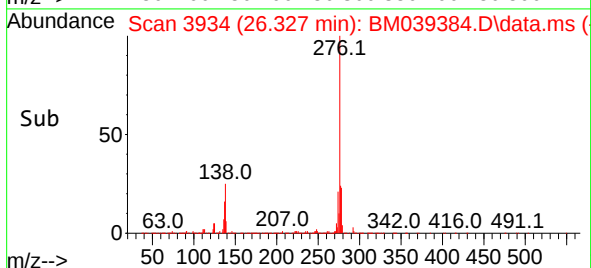
Reviewed By :Christian Giraldo 04/11/2023
Supervised By :Jagrut Upadhyay 04/11/2023

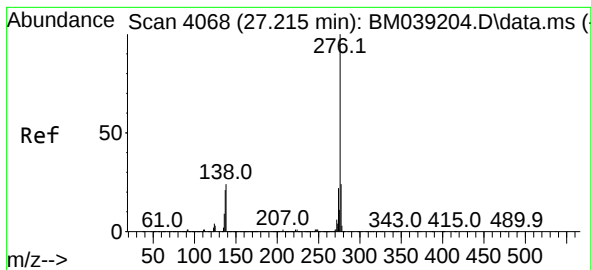


#91
Dibenzo(a,h)anthracene
Concen: 5.490 ng m
RT: 26.327 min Scan# 3934
Delta R.T. -0.018 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14



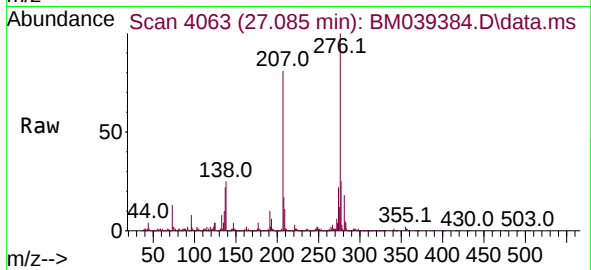
Tgt Ion:278 Resp: 286458
Ion Ratio Lower Upper
278 100
139 23.5 13.9 20.9#
279 24.8 18.8 28.2





#92
Benzo(g,h,i)perylene
Concen: 17.810 ng
RT: 27.085 min Scan# 4063
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Instrument :
BNA_M
ClientSampleId :
SP-1C



Tgt Ion: 276 Resp: 913810
Ion Ratio Lower Upper
276 100
277 24.7 19.1 28.7
138 25.0 19.5 29.3

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 04/11/2023
Supervised By : Jagrut Upadhyay 04/11/2023

