

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080323\
 Data File : BM041282.D
 Acq On : 04 Aug 2023 03:35
 Operator : MA/JU
 Sample : 03815-03 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DUP-01

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/04/2023
 Supervised By :mohammad ahmed 08/04/2023

Supervised By :mohammad
 ahmed
 08/04/2023

Quant Time: Aug 04 04:05:17 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 19:20:51 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.798	152	165007	20.000	ng	0.00
21) Naphthalene-d8	10.616	136	698113	20.000	ng	0.01
39) Acenaphthene-d10	14.469	164	463011	20.000	ng	0.00
64) Phenanthrene-d10	17.239	188	835254	20.000	ng	0.02
76) Chrysene-d12	21.445	240	654850	20.000	ng	0.01
86) Perylene-d12	23.827	264	853735	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	125666	11.382	ng	0.00
7) Phenol-d6	6.981	99	173558	12.128	ng	0.00
23) Nitrobenzene-d5	8.975	82	114437	7.623	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	69870	10.669	ng	0.00
45) 2-Fluorobiphenyl	13.080	172	262762	7.169	ng	0.00
79) Terphenyl-d14	19.868	244	385736	10.650	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.675	128	28308589m	747.252	ng	
37) 2-Methylnaphthalene	12.304	142	13853006	542.397	ng	98
38) 1-Methylnaphthalene	12.522	142	9830171	411.230	ng	99
46) 1,1'-Biphenyl	13.298	154	4532758	120.758	ng	98
49) Acenaphthylene	14.204	152	10360138	229.017	ng	98
52) Acenaphthene	14.539	154	2556819	93.820	ng	99
55) Dibenzofuran	14.868	168	962295	21.642	ng	# 85
58) Fluorene	15.539	166	8739114	249.142	ng	100
71) Phenanthrene	17.298	178	26723773	575.855	ng	96
72) Anthracene	17.392	178	11226729	244.604	ng	98
73) Carbazole	17.651	167	644050	15.504	ng	97
75) Fluoranthene	19.327	202	13425578	257.503	ng	98
78) Pyrene	19.692	202	19901174	434.575	ng	94
81) Benzo(a)anthracene	21.433	228	10171919	229.131	ng	# 88
83) Chrysene	21.492	228	9007738	209.778	ng	94
87) Indeno(1,2,3-cd)pyrene	26.309	276	3821757	60.887	ng	# 92
88) Benzo(b)fluoranthene	23.115	252	8304820m	163.748	ng	
89) Benzo(k)fluoranthene	23.150	252	1925722m	37.119	ng	
90) Benzo(a)pyrene	23.744	252	9556053m	196.094	ng	
91) Dibenzo(a,h)anthracene	26.309	278	1345632	25.703	ng	96
92) Benzo(g,h,i)perylene	27.079	276	4242767	82.822	ng	# 95

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

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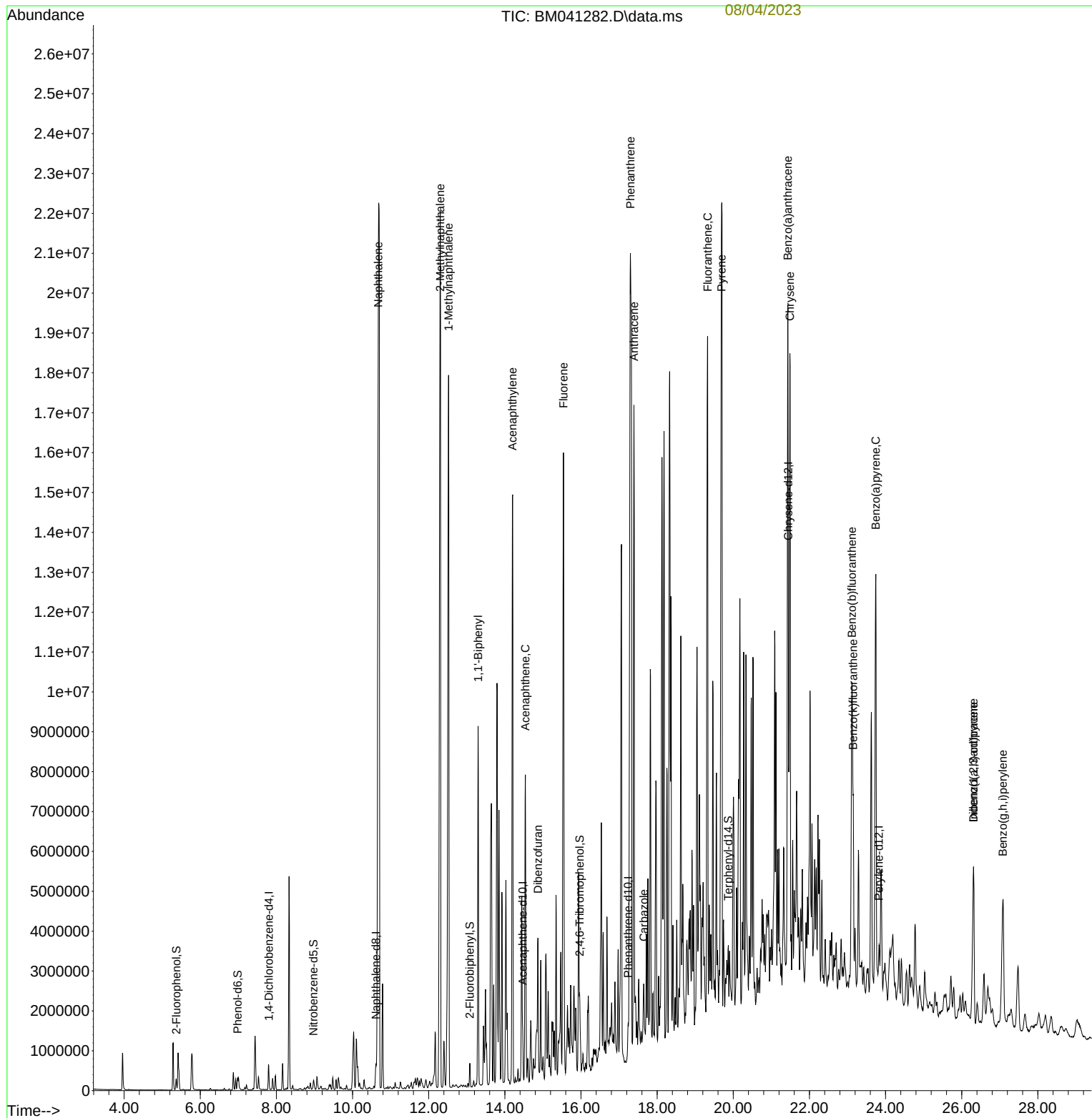
Quant Time: Aug 04 04:05:17 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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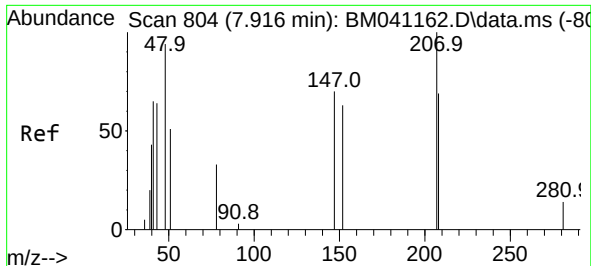
Manual Integrations
APPROVED

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Supervised By :mohammad ahmed 08/04/2023

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ahmed

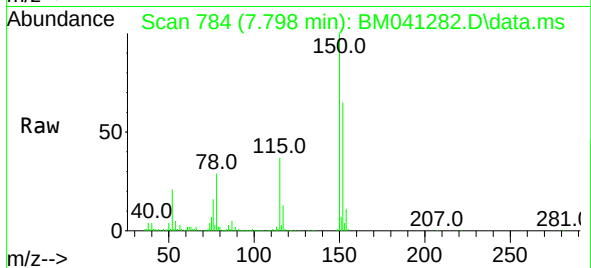
08/04/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.798 min Scan# 71
Delta R.T. 0.005 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Instrument :
BNA_M
ClientSampleId :
DUP-01

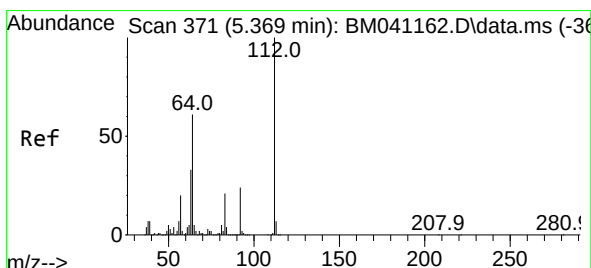
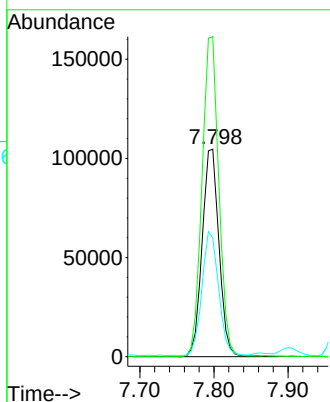
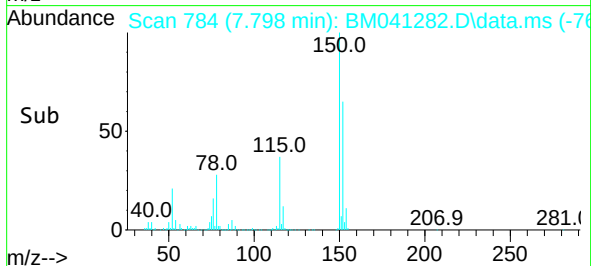


Tgt Ion:152 Resp: 16500
Ion Ratio Lower Upper
152 100
150 154.2 125.5 188.3
115 57.1 48.0 72.0

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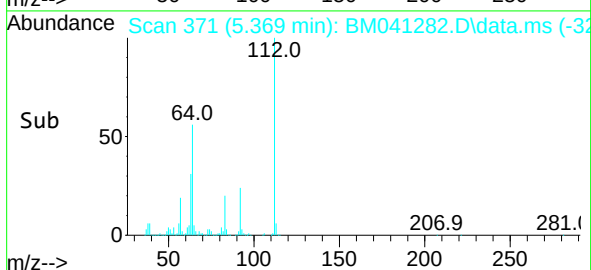
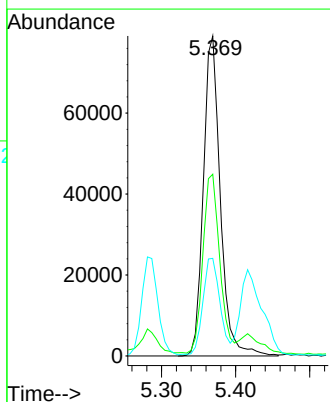
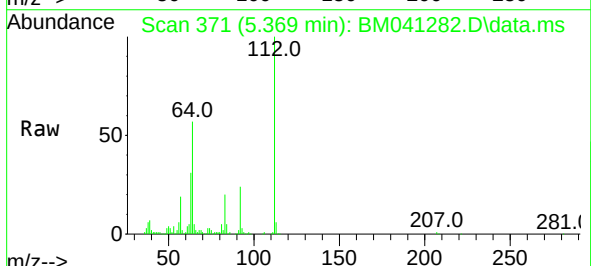
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

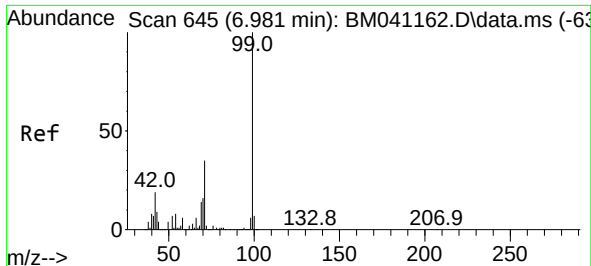
Supervised By :mohammad
ahmed
08/04/2023



#5
2-Fluorophenol
Concen: 11.382 ng
RT: 5.369 min Scan# 371
Delta R.T. -0.000 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

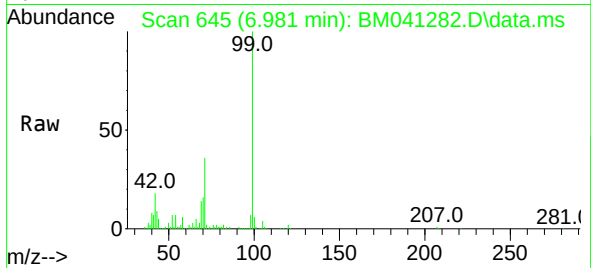
Tgt Ion:112 Resp: 125666
Ion Ratio Lower Upper
112 100
64 56.8 48.5 72.7
63 30.5 26.5 39.7





#7
Phenol-d6
Concen: 12.128 ng
RT: 6.981 min Scan# 645
Delta R.T. -0.000 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Instrument :
BNA_M
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DUP-01

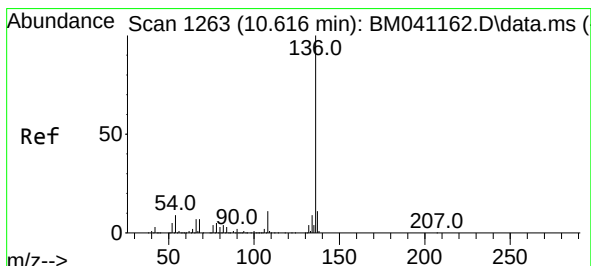
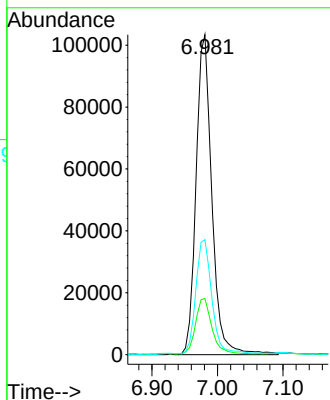
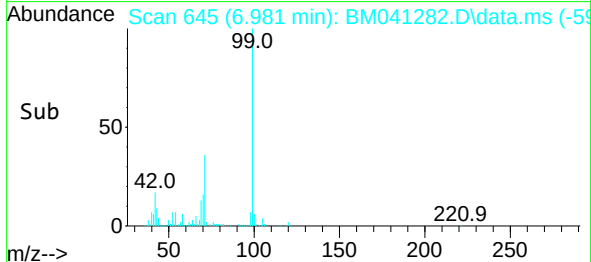


Tgt Ion: 99 Resp: 173558
Ion Ratio Lower Upper
99 100
42 17.6 15.4 23.0
71 36.0 28.2 42.4

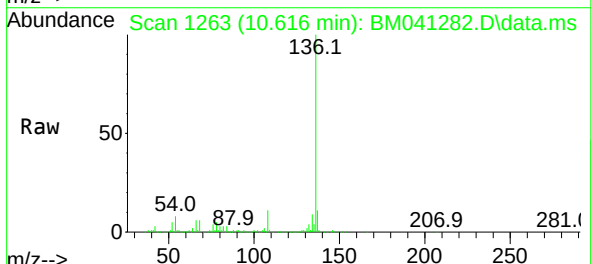
Manual Integrations
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Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

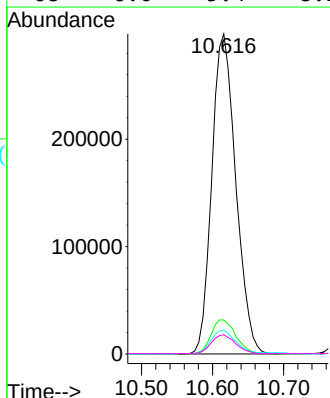
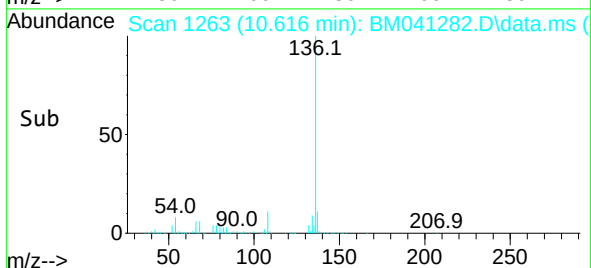
Supervised By :mohammad
ahmed
08/04/2023

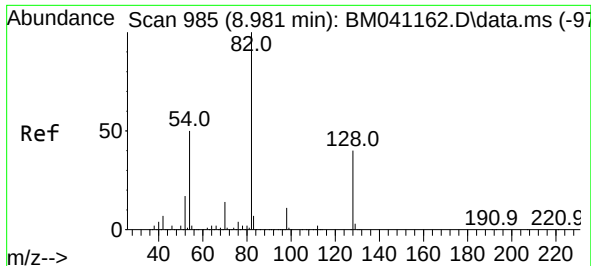


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1263
Delta R.T. 0.012 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35



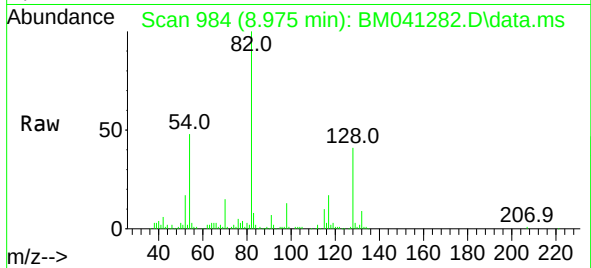
Tgt Ion:136 Resp: 698113
Ion Ratio Lower Upper
136 100
137 10.6 8.8 13.2
54 7.5 6.9 10.3
68 6.0 5.4 8.2





#23
Nitrobenzene-d5
Concen: 7.623 ng
RT: 8.975 min Scan# 91
Delta R.T. -0.000 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

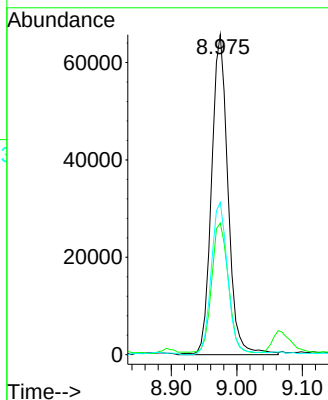
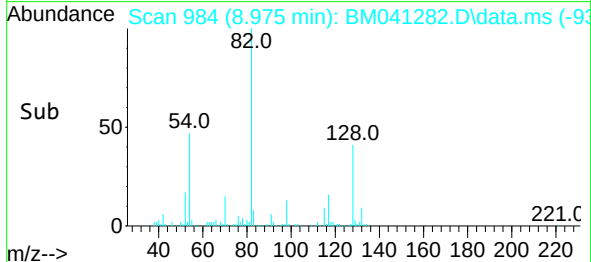
Instrument :
BNA_M
ClientSampleId :
DUP-01



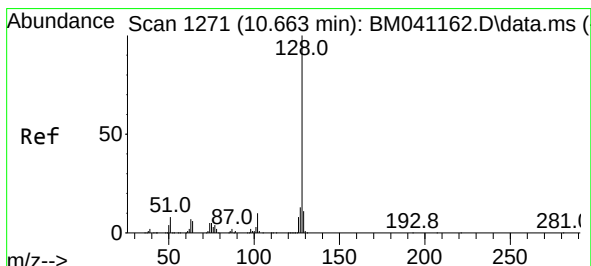
Tgt Ion: 82 Resp: 11443
Ion Ratio Lower Upper
82 100
128 41.1 31.8 47.6
54 47.6 40.1 60.1

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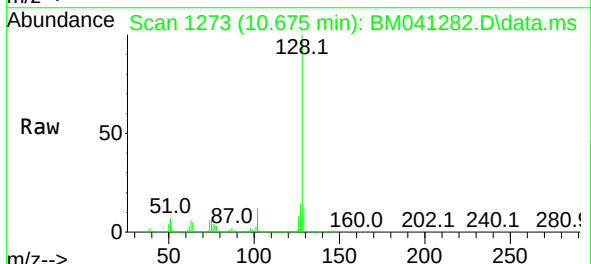
Reviewed By :Yogesh Patel 08/04/2023
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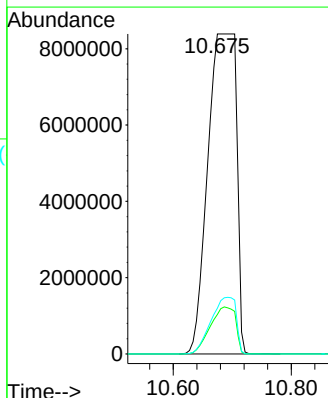
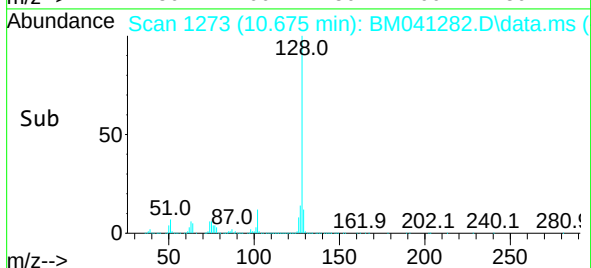
Supervised By :mohammad
ahmed
08/04/2023

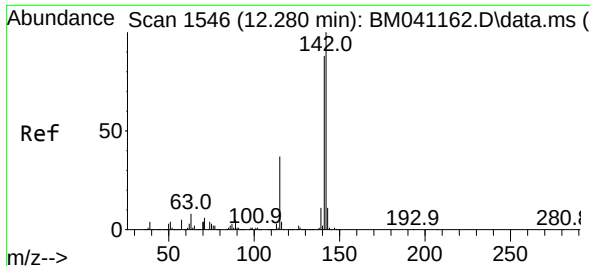


#31
Naphthalene
Concen: 747.252 ng m
RT: 10.675 min Scan# 1273
Delta R.T. 0.023 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35



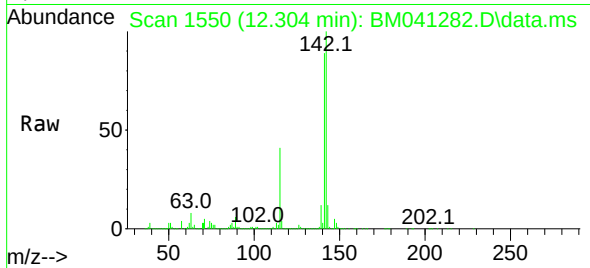
Tgt Ion:128 Resp:28308589
Ion Ratio Lower Upper
128 100
129 12.3 9.0 13.4
127 14.3 10.5 15.7





#37
2-Methylnaphthalene
Concen: 542.397 ng
RT: 12.304 min Scan# 1546
Delta R.T. 0.029 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Instrument :
BNA_M
ClientSampleId :
DUP-01

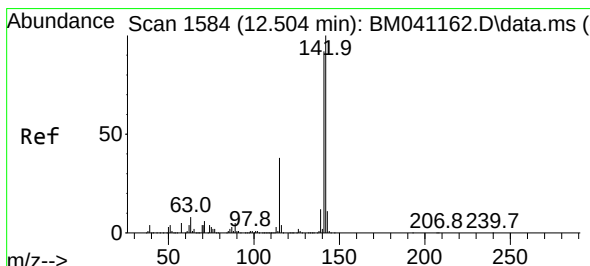
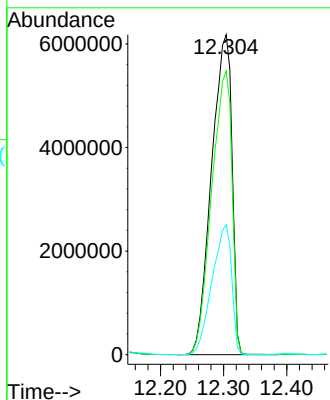
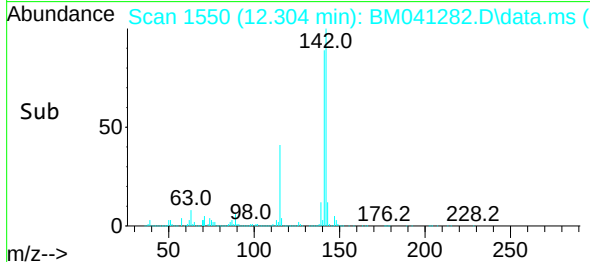


Tgt Ion:142 Resp:13853000
Ion Ratio Lower Upper
142 100
141 88.6 70.7 106.1
115 40.7 29.3 43.9

Manual Integrations
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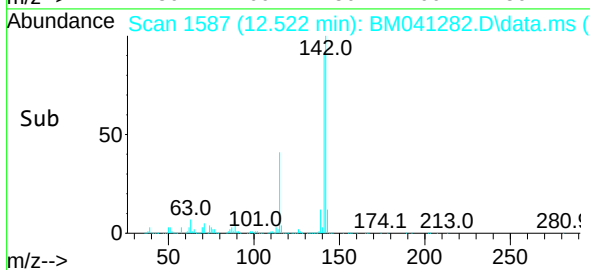
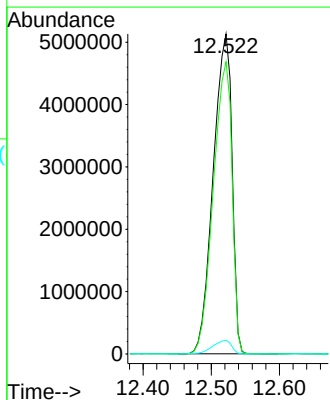
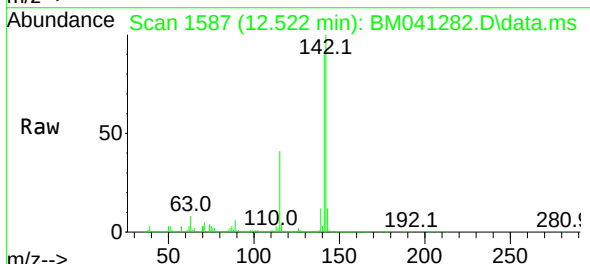
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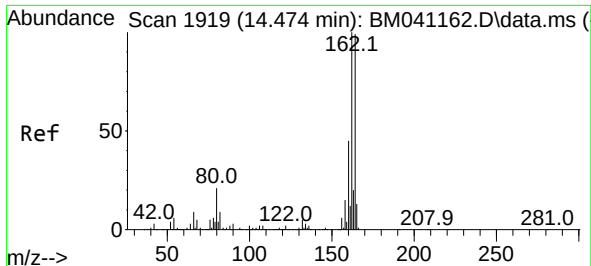
Supervised By :mohammad
ahmed
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#38
1-Methylnaphthalene
Concen: 411.230 ng
RT: 12.522 min Scan# 1587
Delta R.T. 0.029 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

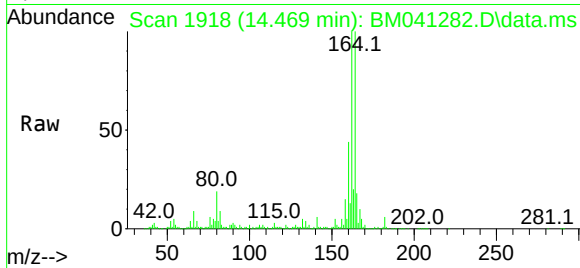
Tgt Ion:142 Resp: 9830171
Ion Ratio Lower Upper
142 100
141 91.3 73.4 110.2
116 4.3 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.469 min Scan# 1918
Delta R.T. 0.006 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Instrument :
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DUP-01

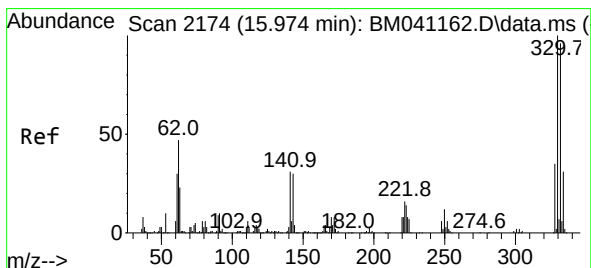
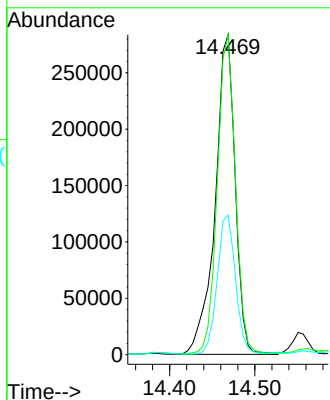
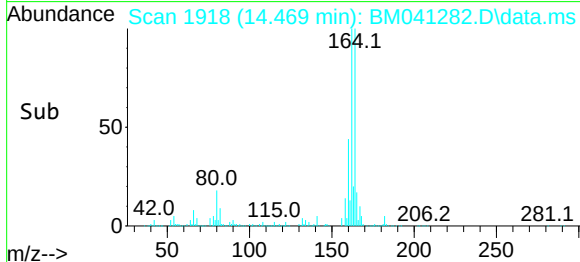


Tgt Ion:164 Resp: 46301
Ion Ratio Lower Upper
164 100
162 99.8 80.4 120.6
160 43.6 36.2 54.2

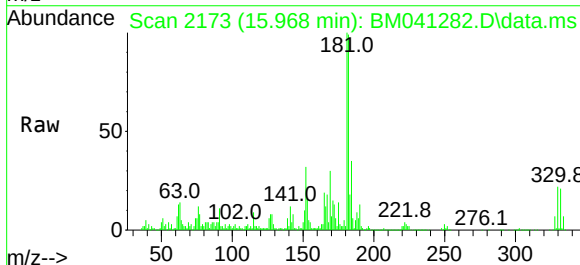
Manual Integrations
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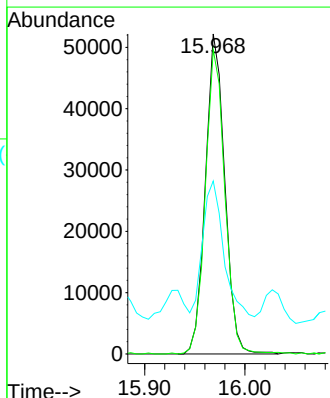
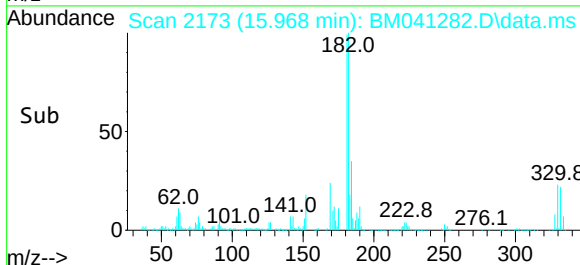
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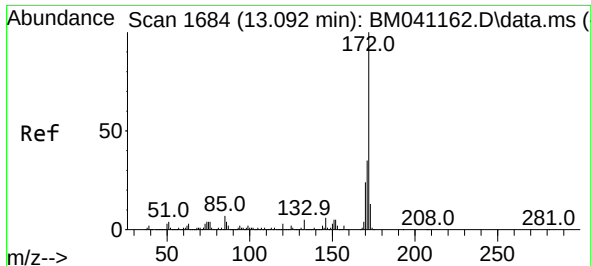


#42
2,4,6-Tribromophenol
Concen: 10.669 ng
RT: 15.968 min Scan# 2173
Delta R.T. -0.000 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35



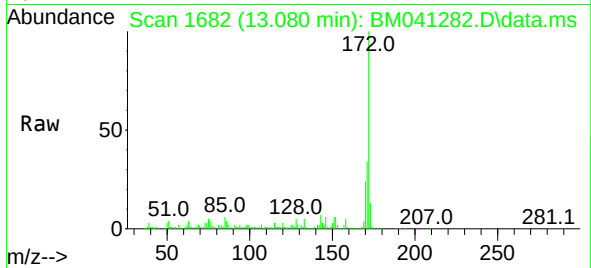
Tgt Ion:330 Resp: 69870
Ion Ratio Lower Upper
330 100
332 96.3 77.7 116.5
141 50.4 28.3 42.5#





#45
2-Fluorobiphenyl
Concen: 7.169 ng
RT: 13.080 min Scan# 1719
Delta R.T. -0.000 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

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DUP-01

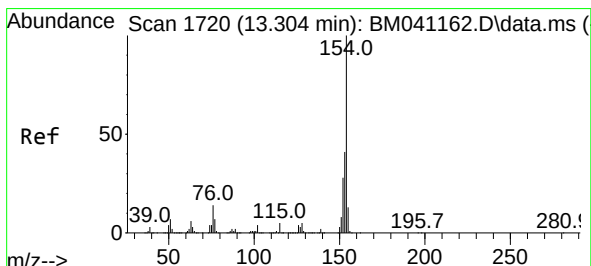
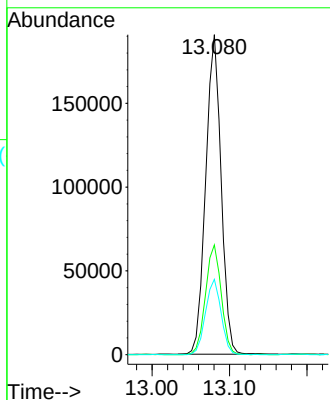
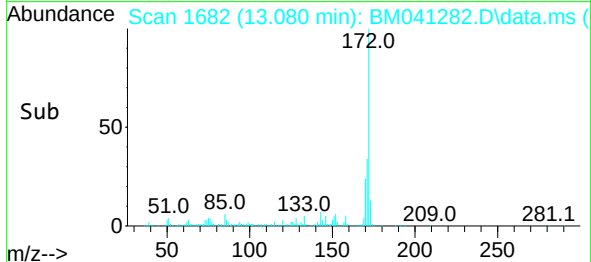


Tgt Ion:172 Resp: 262762
Ion Ratio Lower Upper
172 100
171 34.3 28.1 42.1
170 23.6 18.9 28.3

Manual Integrations
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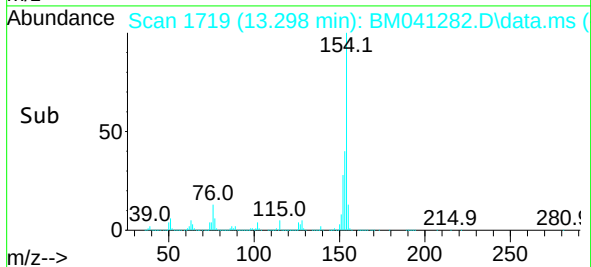
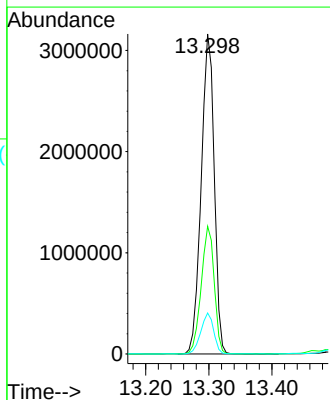
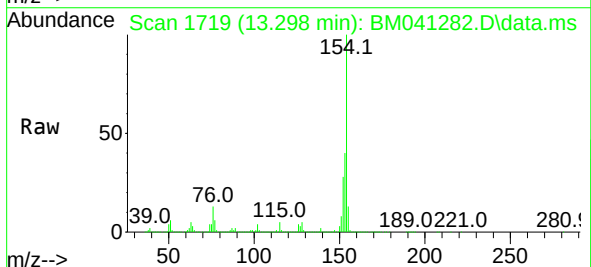
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

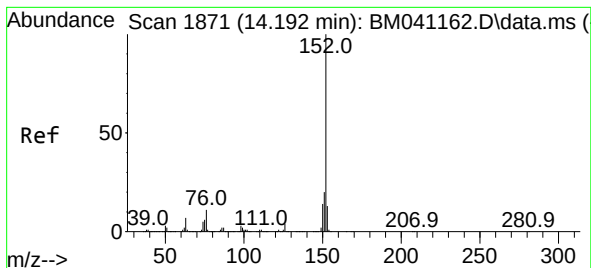
Supervised By :mohammad
ahmed
08/04/2023



#46
1,1'-Biphenyl
Concen: 120.758 ng
RT: 13.298 min Scan# 1719
Delta R.T. 0.006 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Tgt Ion:154 Resp: 4532758
Ion Ratio Lower Upper
154 100
153 39.9 20.5 60.5
76 12.8 0.0 34.1





#49

Acenaphthylene

Concen: 229.017 ng

RT: 14.204 min Scan# 1873

Delta R.T. 0.018 min

Lab File: BM041282.D

Acq: 04 Aug 2023 03:35

Instrument :

BNA_M

ClientSampleId :

DUP-01

Tgt Ion:152 Resp:1036013

Ion Ratio Lower Upper

152 100

151 20.6 16.1 24.1

153 14.6 10.5 15.7

Manual Integrations

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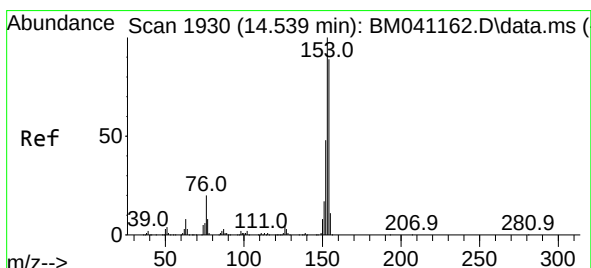
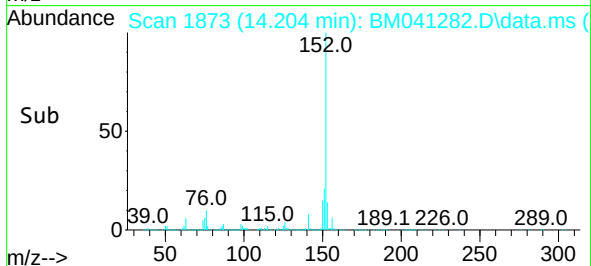
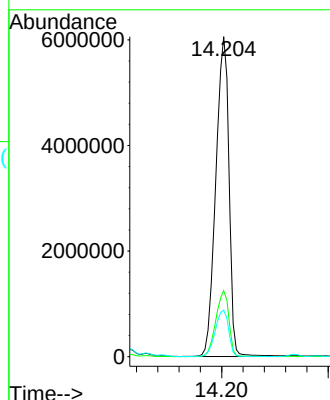
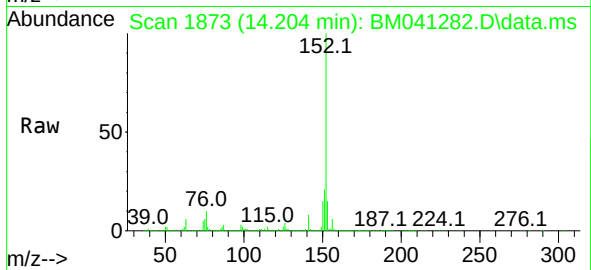
Reviewed By :Yogesh Patel 08/04/2023

Supervised By :mohammad ahmed 08/04/2023

Supervised By :mohammad

ahmed

08/04/2023



#52

Acenaphthene

Concen: 93.820 ng

RT: 14.539 min Scan# 1930

Delta R.T. 0.012 min

Lab File: BM041282.D

Acq: 04 Aug 2023 03:35

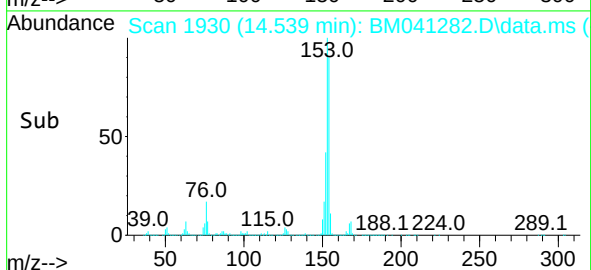
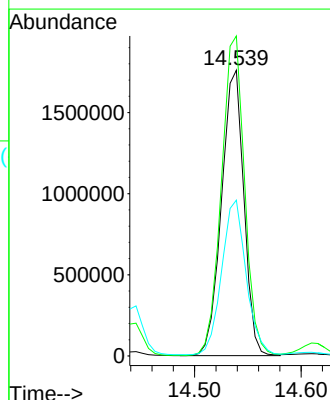
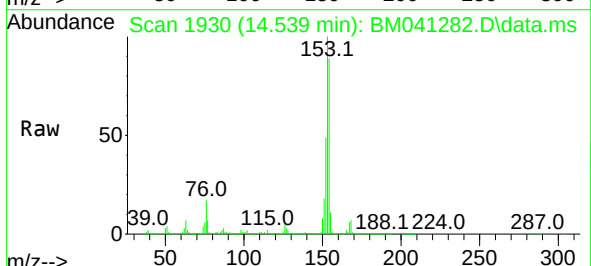
Tgt Ion:154 Resp: 2556819

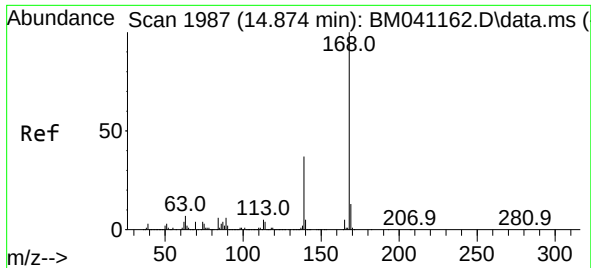
Ion Ratio Lower Upper

154 100

153 112.0 90.2 135.4

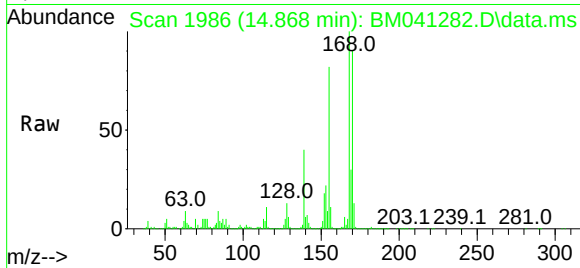
152 54.6 43.4 65.0





#55
Dibenzenofuran
Concen: 21.642 ng
RT: 14.868 min Scan# 1987
Delta R.T. 0.006 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Instrument :
BNA_M
ClientSampleId :
DUP-01

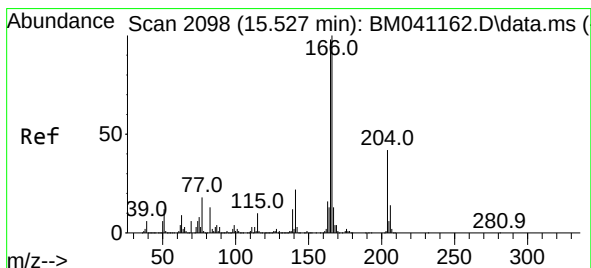
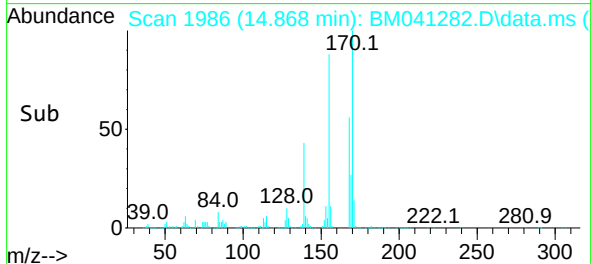
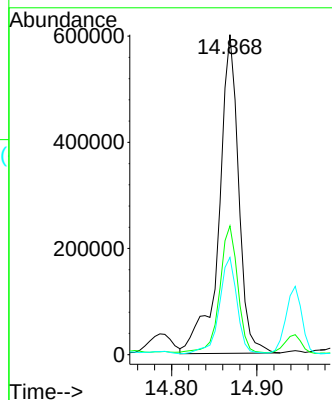


Tgt Ion:168 Resp: 962295
Ion Ratio Lower Upper
168 100
139 40.3 29.8 44.6
169 30.4 10.5 15.7

Manual Integrations
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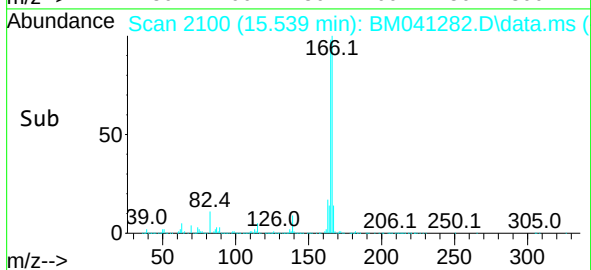
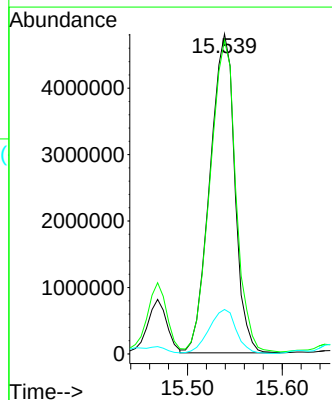
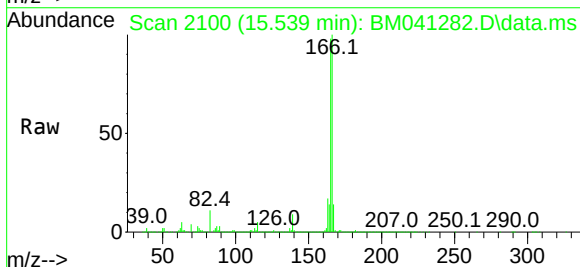
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

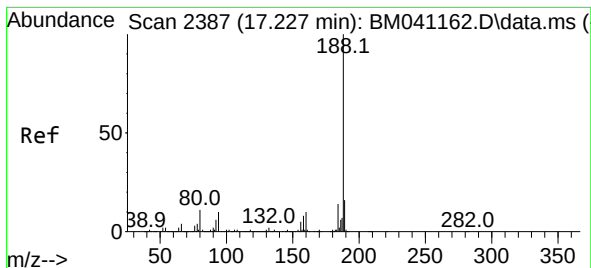
Supervised By :mohammad
ahmed
08/04/2023



#58
Fluorene
Concen: 249.142 ng
RT: 15.539 min Scan# 2100
Delta R.T. 0.023 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Tgt Ion:166 Resp: 8739114
Ion Ratio Lower Upper
166 100
165 98.0 78.2 117.4
167 13.9 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.239 min Scan# 21

Delta R.T. 0.018 min

Lab File: BM041282.D

Acq: 04 Aug 2023 03:35

Instrument :

BNA_M

ClientSampleId :

DUP-01

Tgt Ion:188 Resp: 835254
 Ion Ratio Lower Upper
 188 100
 94 8.4 8.2 12.2
 80 9.3 8.6 13.0

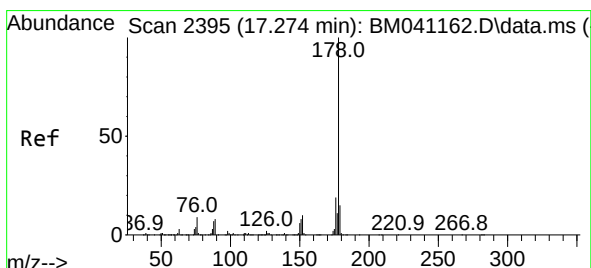
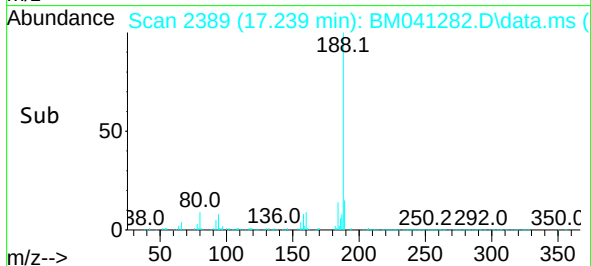
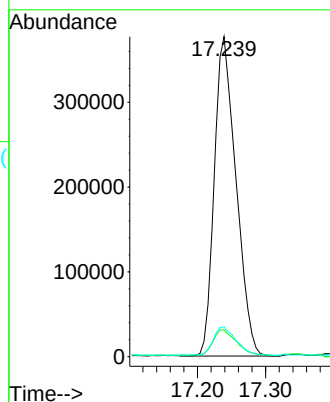
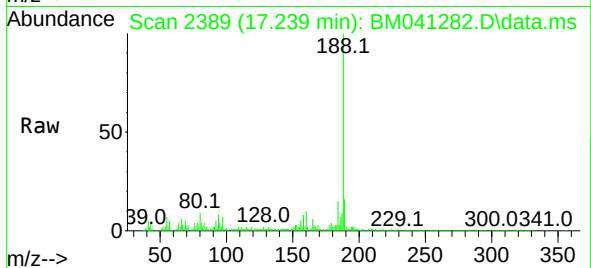
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/04/2023

Supervised By :mohammad ahmed 08/04/2023

Supervised By :mohammad
 ahmed
 08/04/2023



#71

Phenanthrene

Concen: 575.855 ng

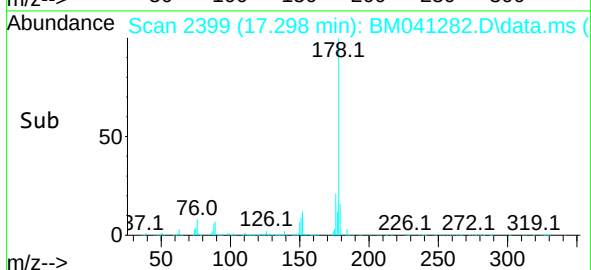
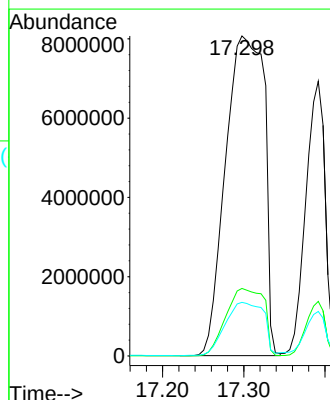
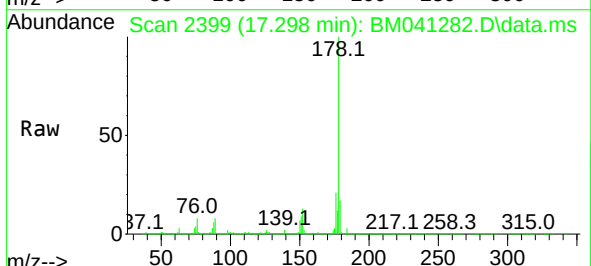
RT: 17.298 min Scan# 2399

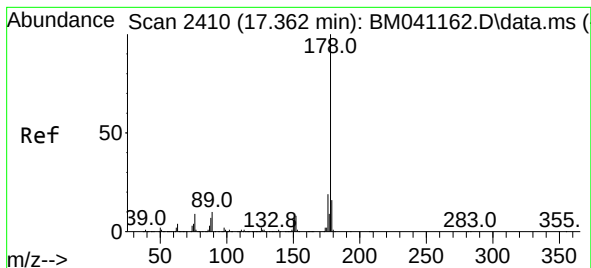
Delta R.T. 0.029 min

Lab File: BM041282.D

Acq: 04 Aug 2023 03:35

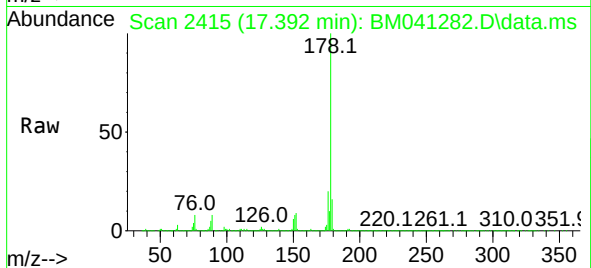
Tgt Ion:178 Resp:26723773
 Ion Ratio Lower Upper
 178 100
 176 21.1 15.6 23.4
 179 16.8 12.1 18.1





#72
 Anthracene
 Concen: 244.604 ng
 RT: 17.392 min Scan# 2410
 Delta R.T. 0.035 min
 Lab File: BM041282.D
 Acq: 04 Aug 2023 03:35

Instrument :
 BNA_M
 ClientSampleId :
 DUP-01

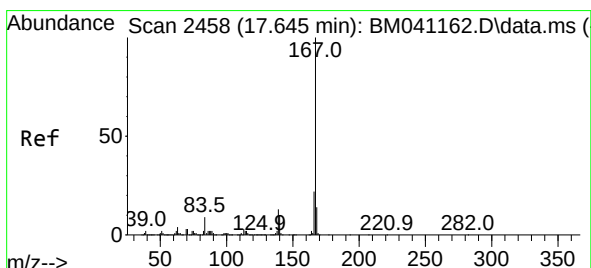
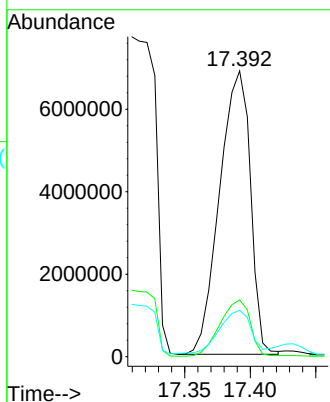
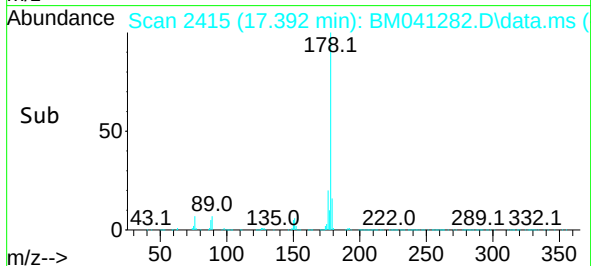


Tgt Ion:178 Resp:11226729
 Ion Ratio Lower Upper
 178 100
 176 19.8 15.2 22.8
 179 16.2 12.4 18.6

Manual Integrations
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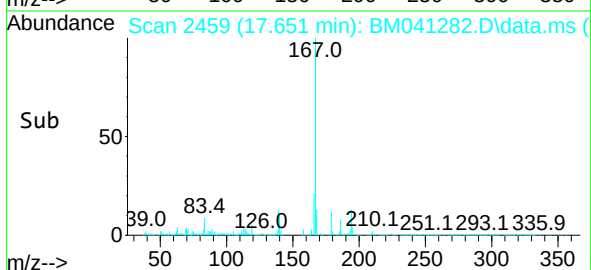
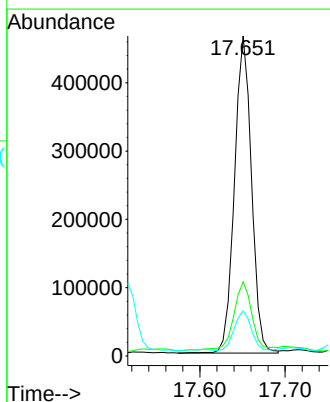
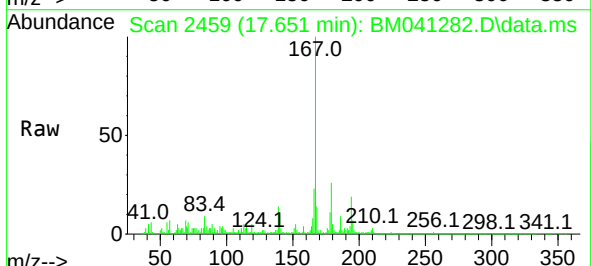
Reviewed By :Yogesh Patel 08/04/2023
 Supervised By :mohammad ahmed 08/04/2023

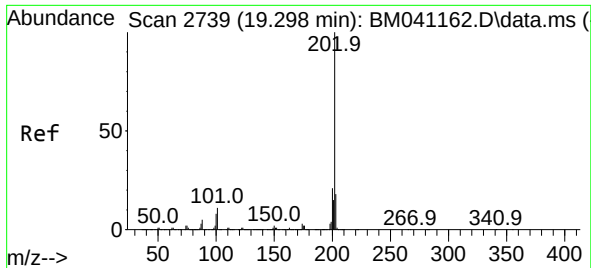
Supervised By :mohammad
 ahmed
 08/04/2023



#73
 Carbazole
 Concen: 15.504 ng
 RT: 17.651 min Scan# 2459
 Delta R.T. 0.012 min
 Lab File: BM041282.D
 Acq: 04 Aug 2023 03:35

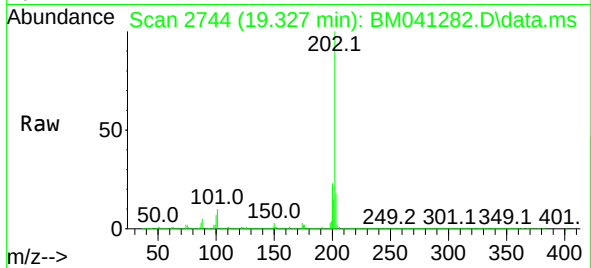
Tgt Ion:167 Resp: 644050
 Ion Ratio Lower Upper
 167 100
 166 23.2 17.3 25.9
 139 14.1 10.3 15.5





#75
Fluoranthene
Concen: 257.503 ng
RT: 19.327 min Scan# 21
Delta R.T. 0.035 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Instrument :
BNA_M
ClientSampleId :
DUP-01

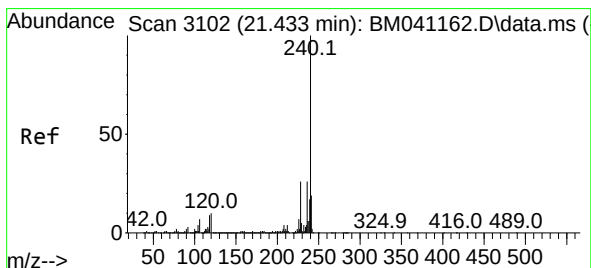
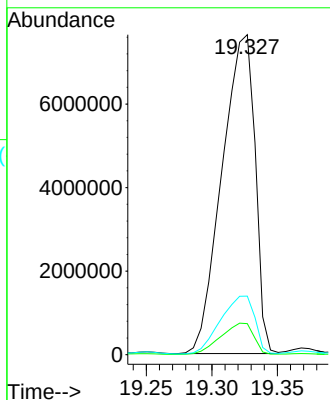


Tgt Ion:202 Resp:13425578
Ion Ratio Lower Upper
202 100
101 9.7 0.0 30.8
203 18.3 0.0 37.6

Manual Integrations
APPROVED

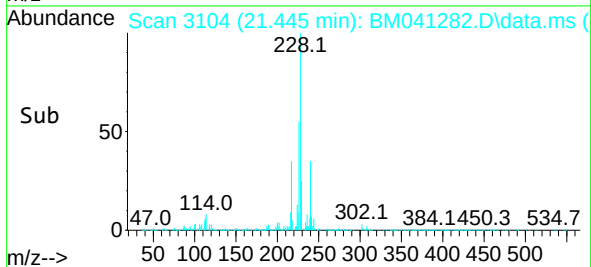
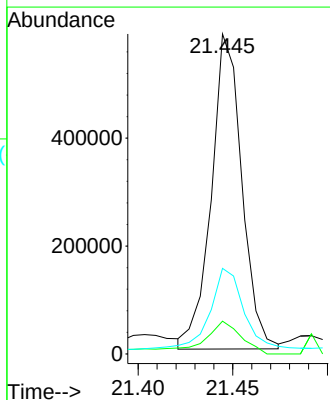
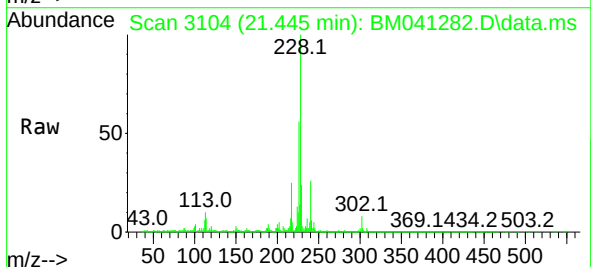
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

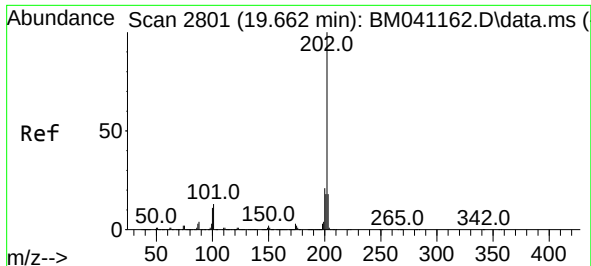
Supervised By :mohammad
ahmed
08/04/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.445 min Scan# 3104
Delta R.T. 0.012 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

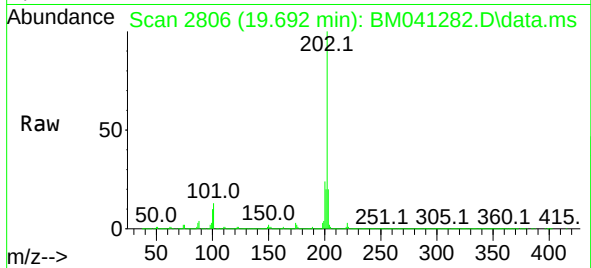
Tgt Ion:240 Resp: 654850
Ion Ratio Lower Upper
240 100
120 10.3 8.3 12.5
236 26.8 20.6 30.8





#78
Pyrene
Concen: 434.575 ng
RT: 19.692 min Scan# 21
Delta R.T. 0.035 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Instrument :
BNA_M
ClientSampleId :
DUP-01

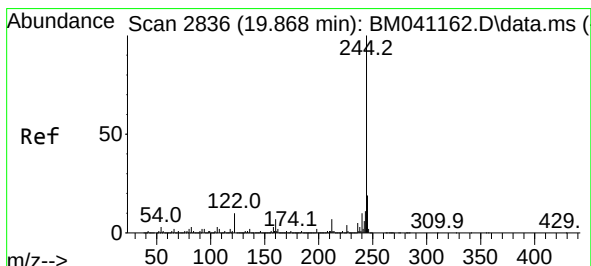
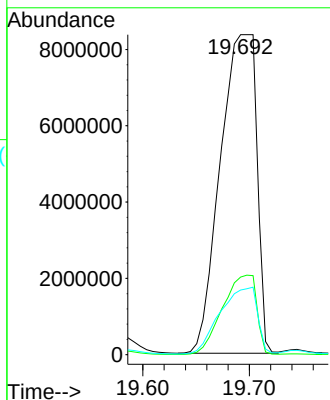
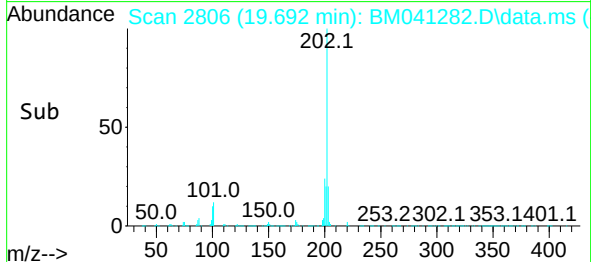


Tgt Ion:202 Resp:19901174
Ion Ratio Lower Upper
202 100
200 24.2 16.9 25.3
203 20.2 14.1 21.1

Manual Integrations
APPROVED

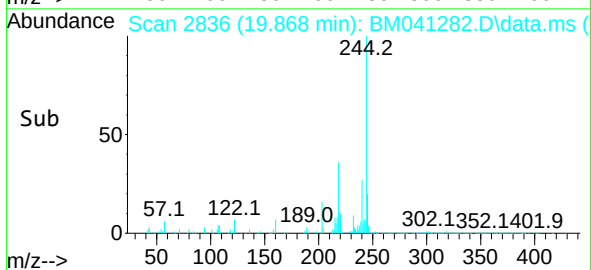
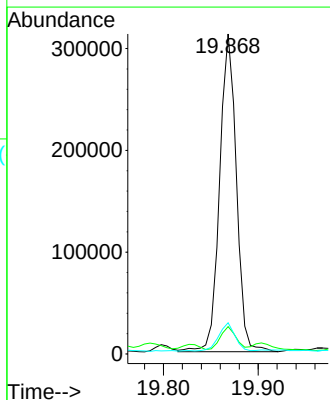
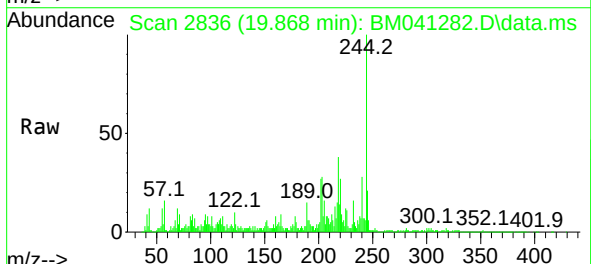
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

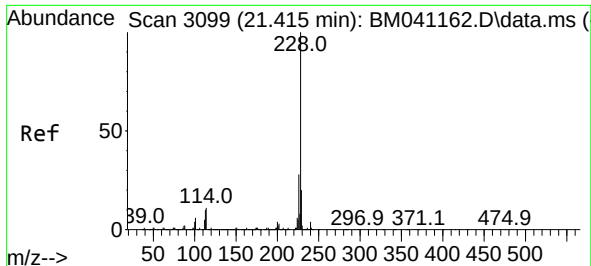
Supervised By :mohammad
ahmed
08/04/2023



#79
Terphenyl-d14
Concen: 10.650 ng
RT: 19.868 min Scan# 2836
Delta R.T. 0.006 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Tgt Ion:244 Resp: 385736
Ion Ratio Lower Upper
244 100
212 8.6 5.4 8.2#
122 9.8 7.8 11.6





#81
Benzo(a)anthracene
Concen: 229.131 ng
RT: 21.433 min Scan# 3102
Delta R.T. 0.017 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

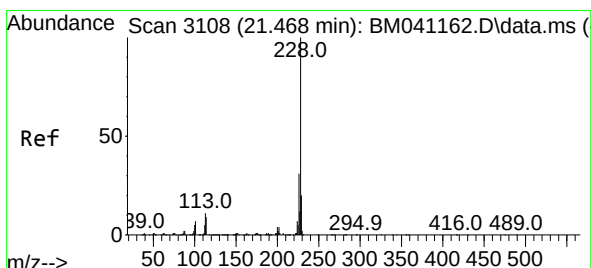
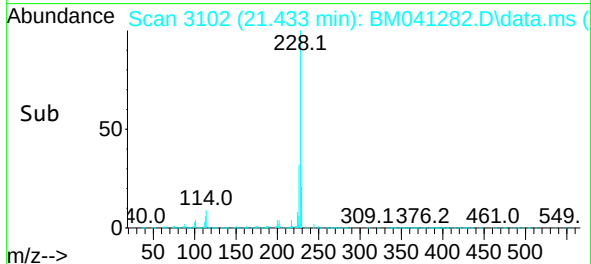
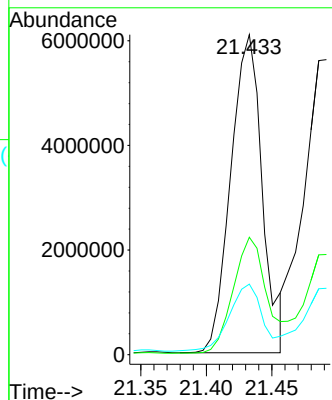
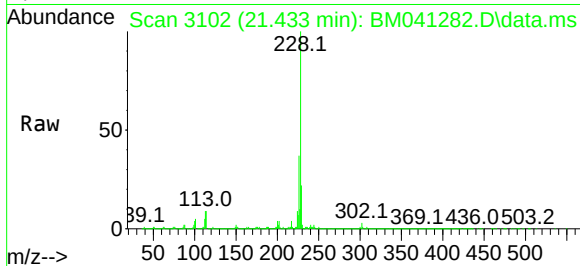
Instrument :
BNA_M
ClientSampleId :
DUP-01

Tgt Ion:228 Resp:10171919
Ion Ratio Lower Upper
228 100
226 36.7 22.4 33.6
229 22.1 15.8 23.8

Manual Integrations
APPROVED

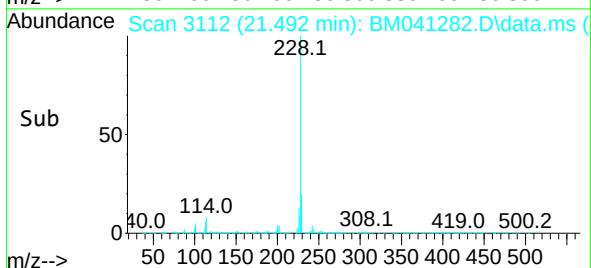
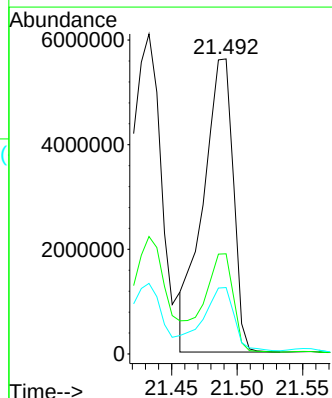
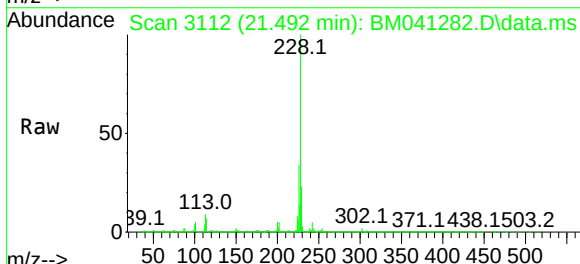
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

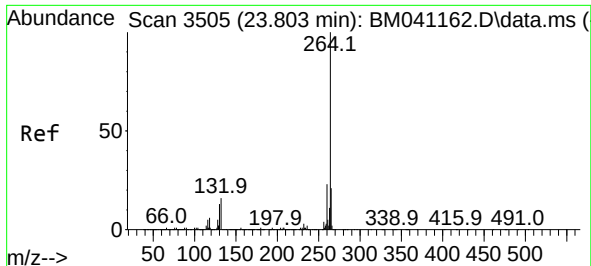
Supervised By :mohammad
ahmed
08/04/2023



#83
Chrysene
Concen: 209.778 ng
RT: 21.492 min Scan# 3112
Delta R.T. 0.023 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Tgt Ion:228 Resp: 9007738
Ion Ratio Lower Upper
228 100
226 34.0 24.5 36.7
229 22.5 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.827 min Scan# 3509
Delta R.T. 0.023 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

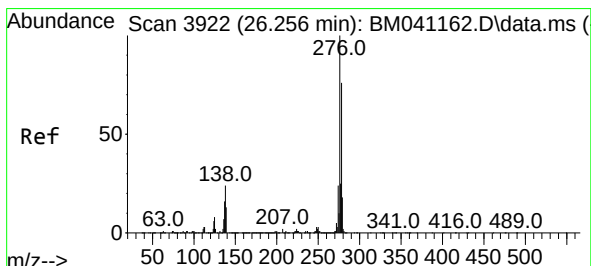
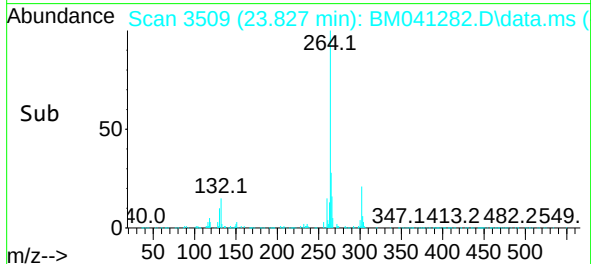
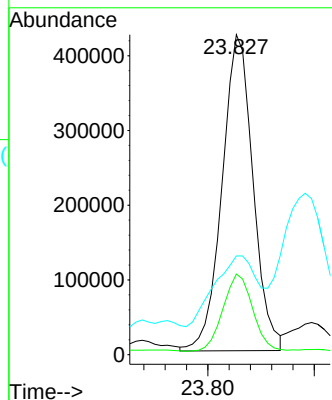
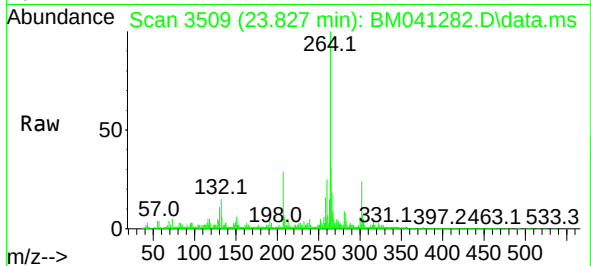
Instrument :
BNA_M
ClientSampleId :
DUP-01

Tgt Ion:264 Resp: 853735
Ion Ratio Lower Upper
264 100
260 25.2 18.5 27.7
265 30.9 17.4 26.0

Manual Integrations
APPROVED

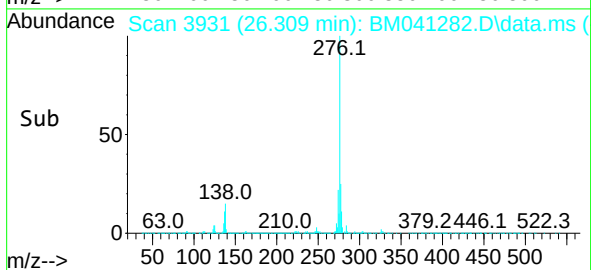
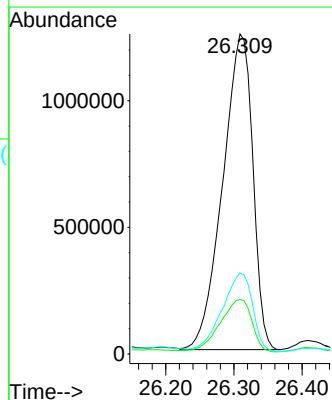
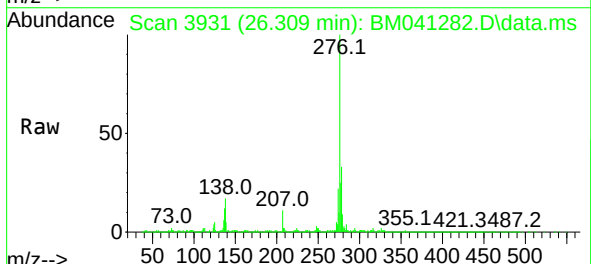
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

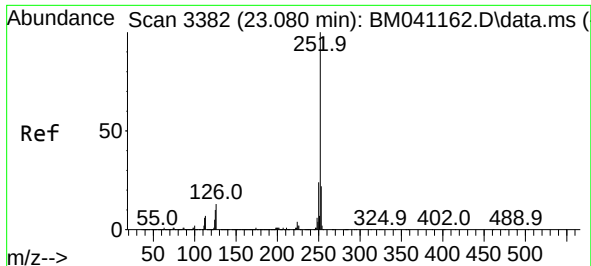
Supervised By :mohammad
ahmed
08/04/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 60.887 ng
RT: 26.309 min Scan# 3931
Delta R.T. 0.047 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

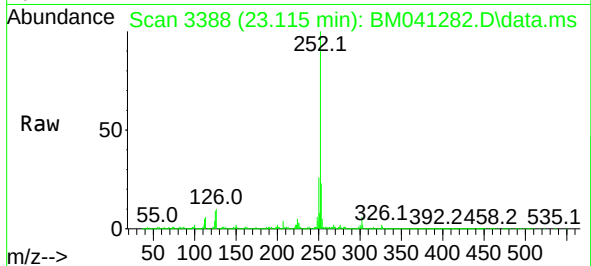
Tgt Ion:276 Resp: 3821757
Ion Ratio Lower Upper
276 100
138 17.5 20.0 30.0#
277 25.2 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 163.748 ng m
RT: 23.115 min Scan# 3388
Delta R.T. 0.029 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Instrument :
BNA_M
ClientSampleId :
DUP-01

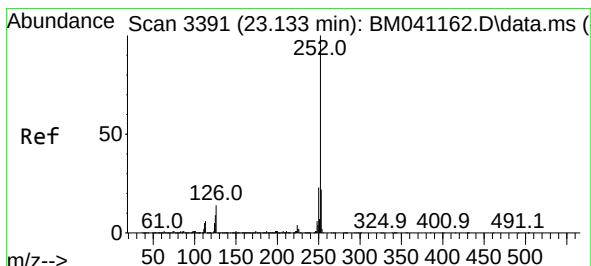
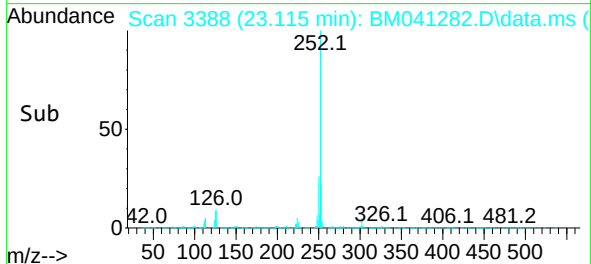
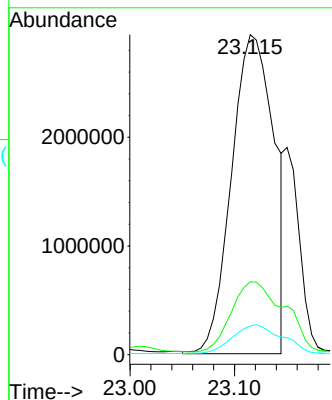


Tgt Ion:252 Resp: 8304820
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 8.9 8.2 12.4

Manual Integrations
APPROVED

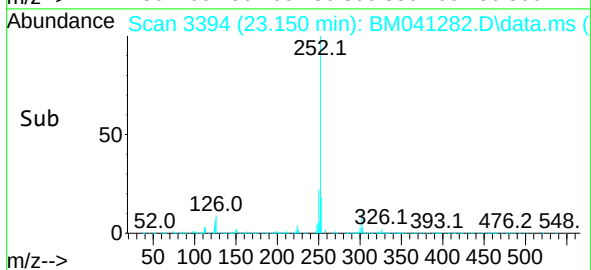
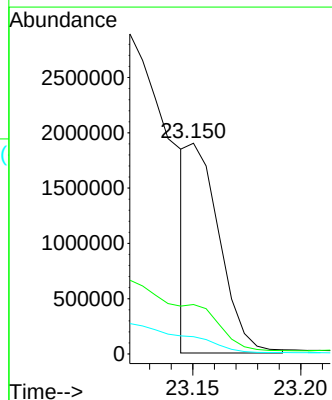
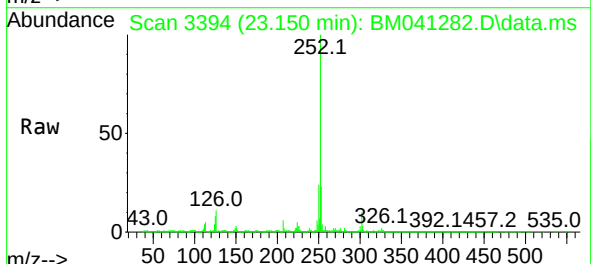
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

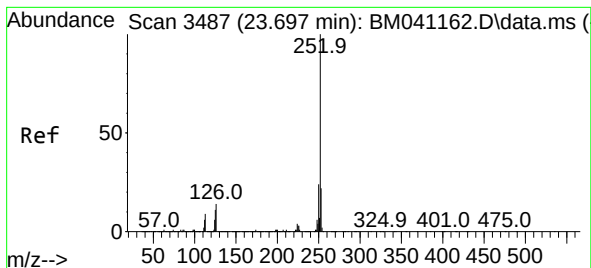
Supervised By :mohammad
ahmed
08/04/2023



#89
Benzo(k)fluoranthene
Concen: 37.119 ng m
RT: 23.150 min Scan# 3394
Delta R.T. 0.018 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

Tgt Ion:252 Resp: 1925722
Ion Ratio Lower Upper
252 100
253 23.5 17.4 26.0
125 8.2 7.6 11.4





#90

Benzo(a)pyrene

Concen: 196.094 ng m

RT: 23.744 min Scan# 34

Delta R.T. 0.047 min

Lab File: BM041282.D

Acq: 04 Aug 2023 03:35

Instrument :

BNA_M

ClientSampleId :

DUP-01

Tgt Ion:252 Resp: 955605

Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

125 8.6 9.0 13.4

Manual Integrations

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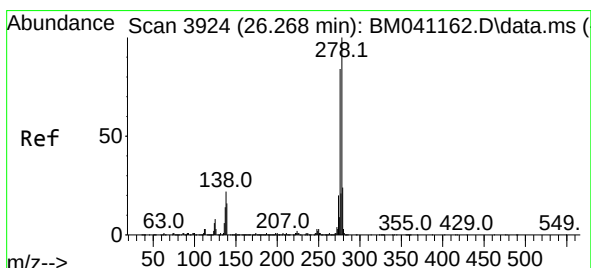
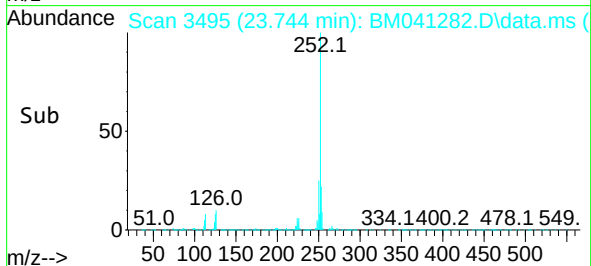
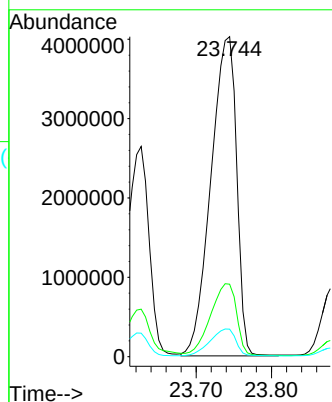
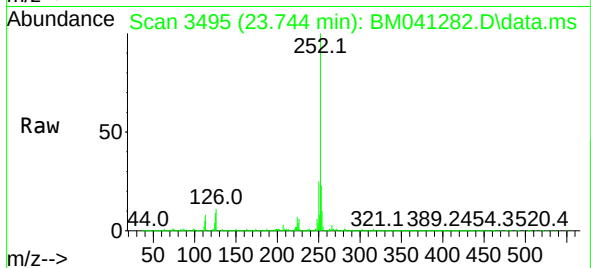
Reviewed By :Yogesh Patel 08/04/2023

Supervised By :mohammad ahmed 08/04/2023

Supervised By :mohammad

ahmed

08/04/2023



#91

Dibenzo(a,h)anthracene

Concen: 25.703 ng

RT: 26.309 min Scan# 3931

Delta R.T. 0.035 min

Lab File: BM041282.D

Acq: 04 Aug 2023 03:35

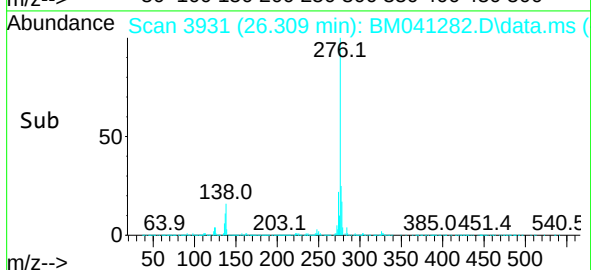
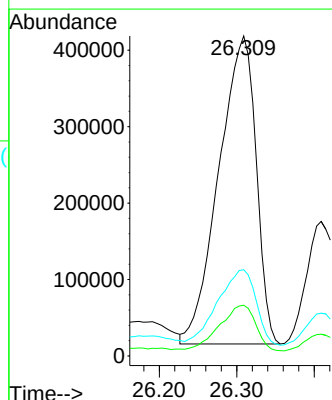
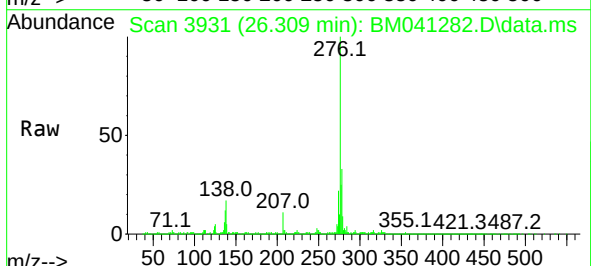
Tgt Ion:278 Resp: 1345632

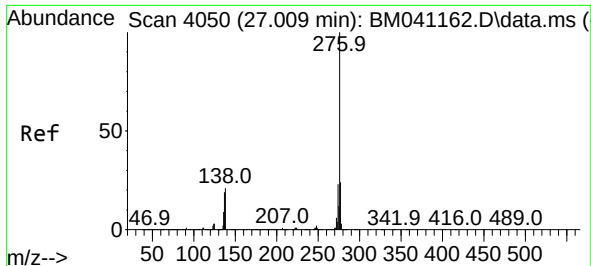
Ion Ratio Lower Upper

278 100

139 15.8 12.7 19.1

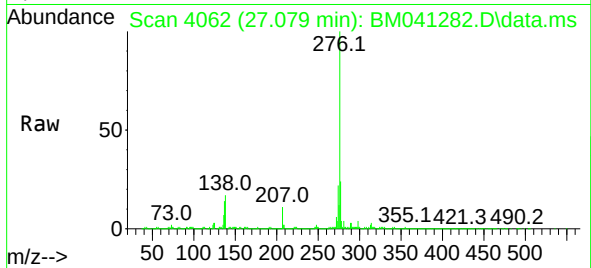
279 26.9 19.1 28.7





#92
Benzo(g,h,i)perylene
Concen: 82.822 ng
RT: 27.079 min Scan# 4050
Delta R.T. 0.065 min
Lab File: BM041282.D
Acq: 04 Aug 2023 03:35

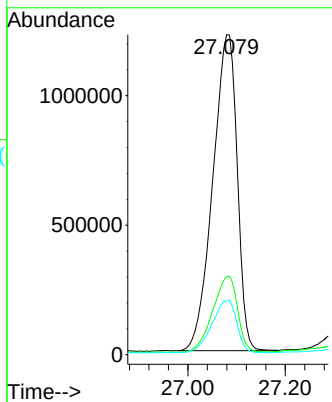
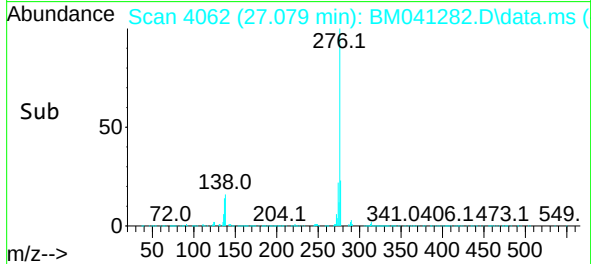
Instrument :
BNA_M
ClientSampleId :
DUP-01



Tgt Ion: 276 Resp: 424276
Ion Ratio Lower Upper
276 100
277 24.3 19.1 28.7
138 16.7 17.1 25.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023



Supervised By :mohammad
ahmed
08/04/2023