

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM073123\
 Data File : BM041194.D
 Acq On : 31 Jul 2023 18:03
 Operator : MA/JU
 Sample : 03768-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 FL-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/01/2023
 Supervised By :mohammad ahmed 08/01/2023

Quant Time: Jul 31 18:33:55 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 31 16:29:28 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.798	152	144422	20.000	ng	0.00
21) Naphthalene-d8	10.610	136	574107	20.000	ng	0.00
39) Acenaphthene-d10	14.469	164	342896	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	708209	20.000	ng	0.00
76) Chrysene-d12	21.445	240	607470	20.000	ng	0.02
86) Perylene-d12	23.815	264	759566	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	837193	86.639	ng	0.00
7) Phenol-d6	6.981	99	1097392	87.612	ng	0.00
23) Nitrobenzene-d5	8.975	82	688212	55.747	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	420746	86.750	ng	0.00
45) 2-Fluorobiphenyl	13.080	172	1457901	53.710	ng	0.00
79) Terphenyl-d14	19.862	244	1992331	59.299	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.663	128	2994933	96.132	ng	100
37) 2-Methylnaphthalene	12.275	142	884213	42.098	ng	99
38) 1-Methylnaphthalene	12.498	142	563984	28.690	ng	100
46) 1,1'-Biphenyl	13.298	154	335186	12.058	ng	99
52) Acenaphthene	14.539	154	3901773	193.325	ng	99
55) Dibenzofuran	14.869	168	2545838	77.314	ng	99
58) Fluorene	15.521	166	3534377	136.057	ng	99
71) Phenanthrene	17.286	178	19996676	508.194	ng	95
72) Anthracene	17.374	178	8631403	221.794	ng	99
73) Carbazole	17.645	167	3873955	109.983	ng	100
75) Fluoranthene	19.309	202	20819603	470.955	ng	97
78) Pyrene	19.680	202	19737526	464.618	ng	94
81) Benzo(a)anthracene	21.427	228	12004001	291.490	ng	96
83) Chrysene	21.486	228	10584243m	265.718	ng	
87) Indeno(1,2,3-cd)pyrene	26.303	276	7093932	127.030	ng	# 93
88) Benzo(b)fluoranthene	23.115	252	14705364	325.896	ng	97
89) Benzo(k)fluoranthene	23.150	252	5026449m	108.900	ng	
90) Benzo(a)pyrene	23.733	252	11303670	260.713	ng	94
91) Dibenzo(a,h)anthracene	26.297	278	1975958	42.422	ng	96
92) Benzo(g,h,i)perylene	27.062	276	6413406	140.716	ng	95

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

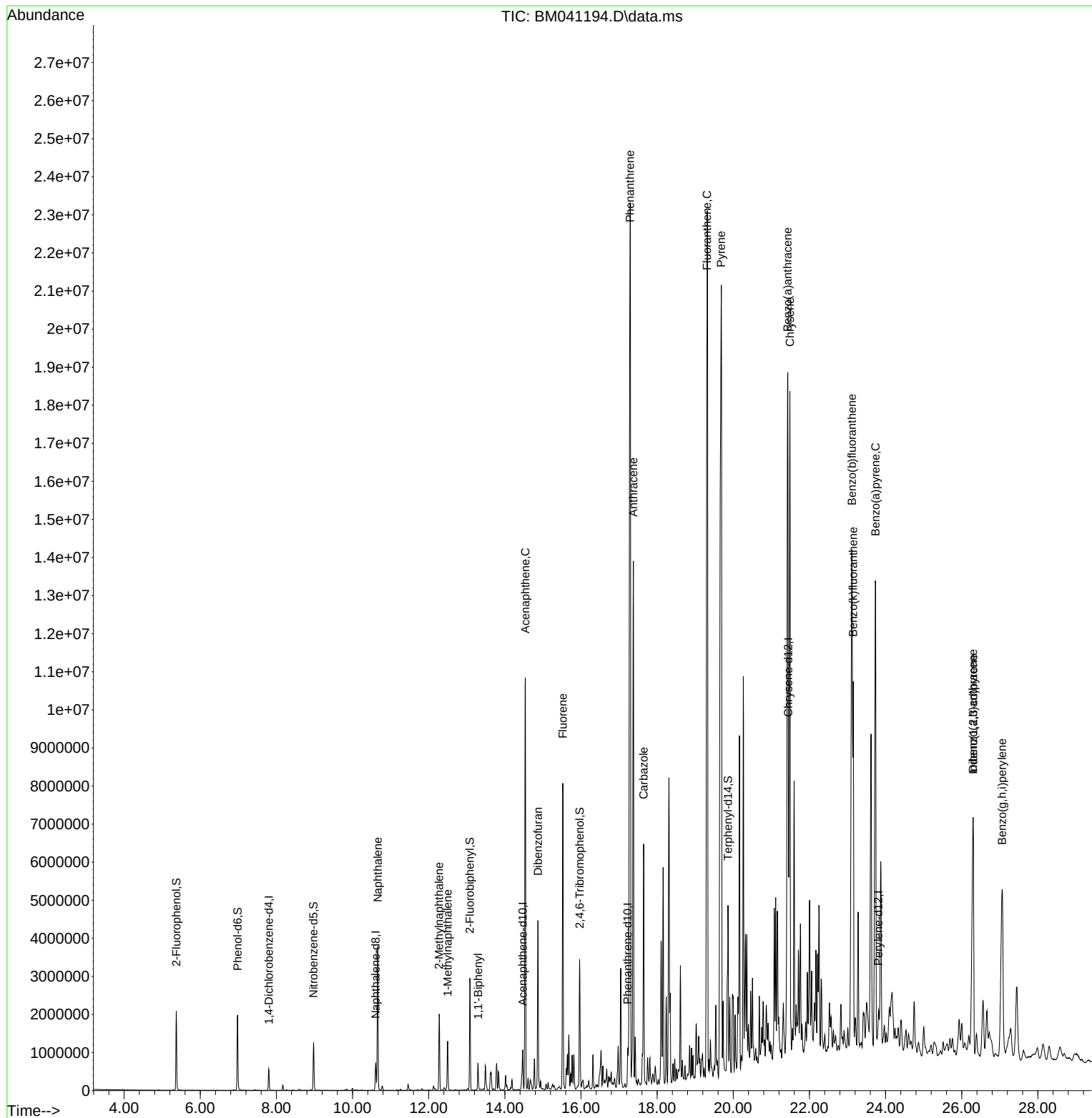
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM073123\
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ALS Vial : 15 Sample Multiplier: 1

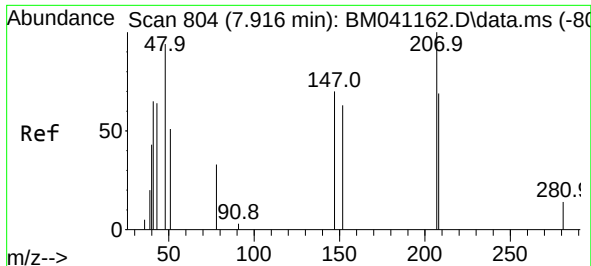
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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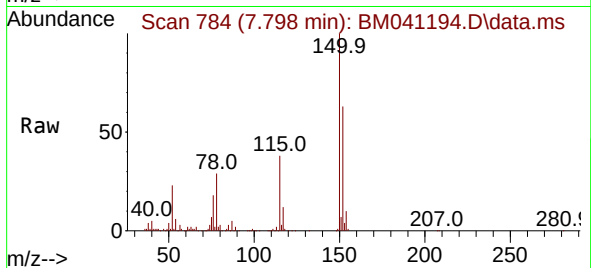
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.798 min Scan# 70
Delta R.T. 0.000 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

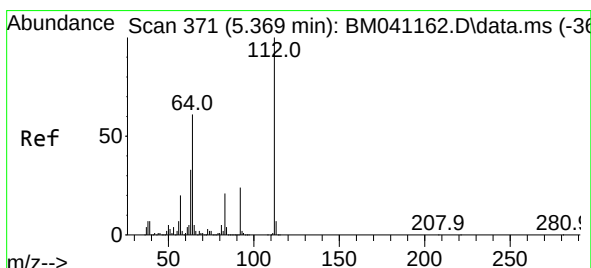
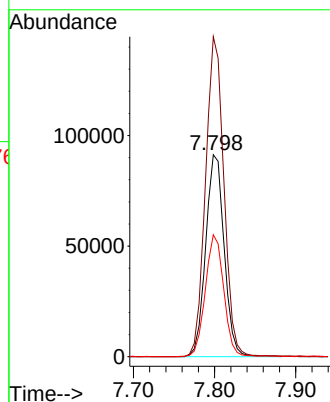
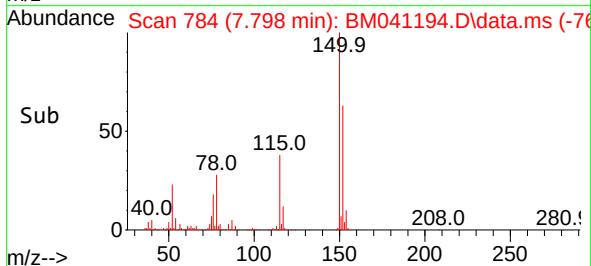
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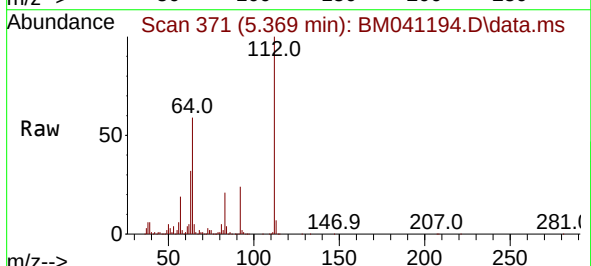
Tgt Ion:152 Resp: 14442
Ion Ratio Lower Upper
152 100
150 158.5 125.5 188.3
115 60.4 48.0 72.0

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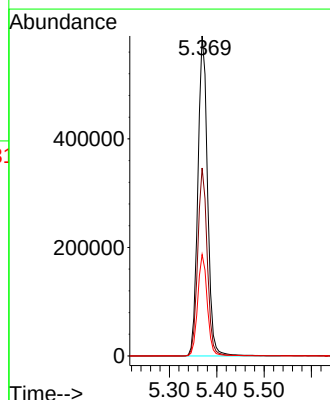
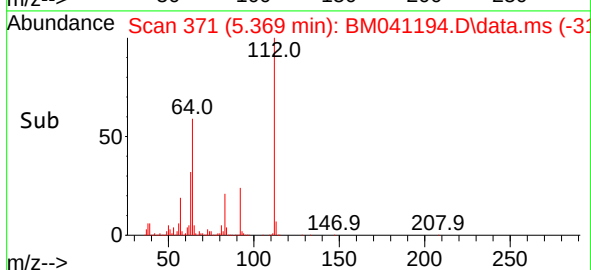
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

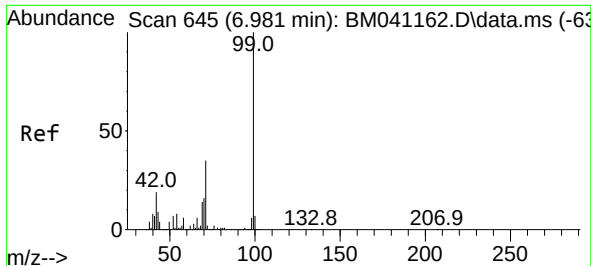


#5
2-Fluorophenol
Concen: 86.639 ng
RT: 5.369 min Scan# 371
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



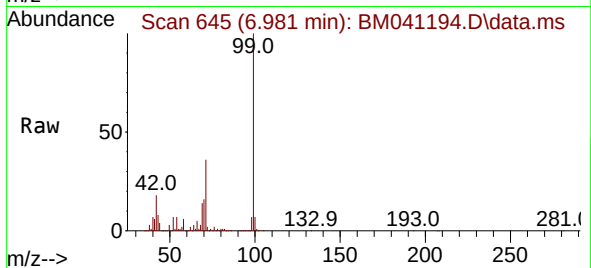
Tgt Ion:112 Resp: 837193
Ion Ratio Lower Upper
112 100
64 58.7 48.5 72.7
63 31.7 26.5 39.7





#7
Phenol-d6
Concen: 87.612 ng
RT: 6.981 min Scan# 645
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

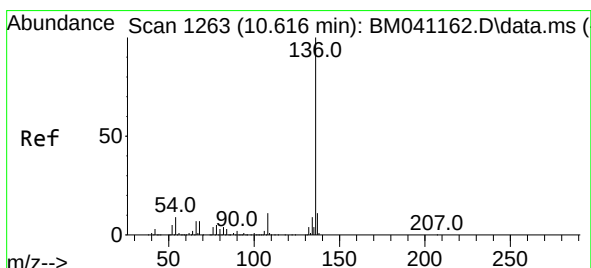
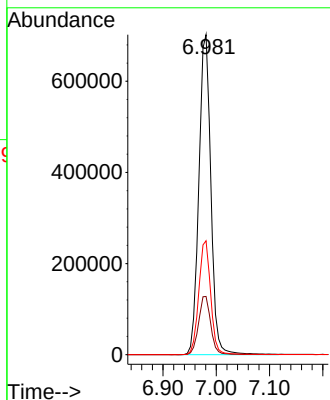
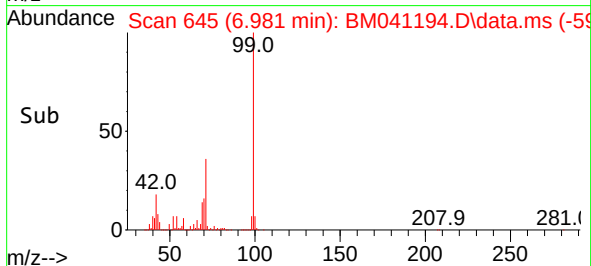
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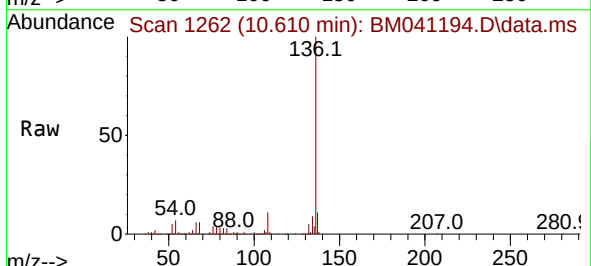
Tgt Ion: 99 Resp: 1097392
Ion Ratio Lower Upper
99 100
42 18.2 15.4 23.0
71 35.6 28.2 42.4

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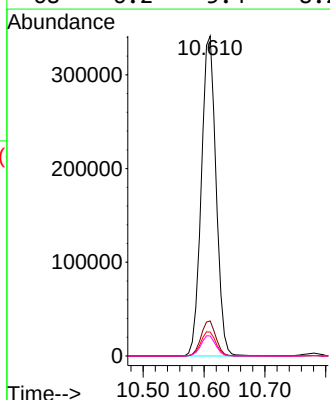
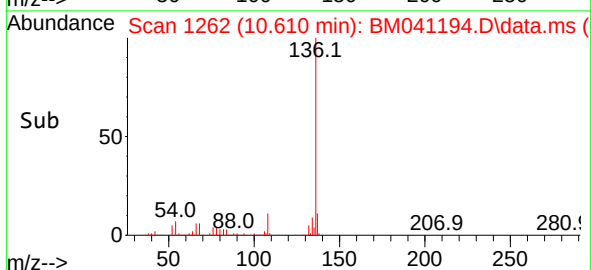
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

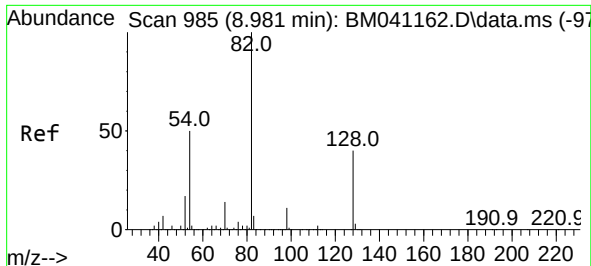


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1262
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



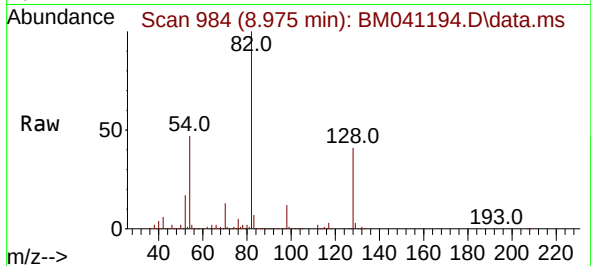
Tgt Ion:136 Resp: 574107
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 7.4 6.9 10.3
68 6.2 5.4 8.2





#23
Nitrobenzene-d5
Concen: 55.747 ng
RT: 8.975 min Scan# 984
Delta R.T. 0.000 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

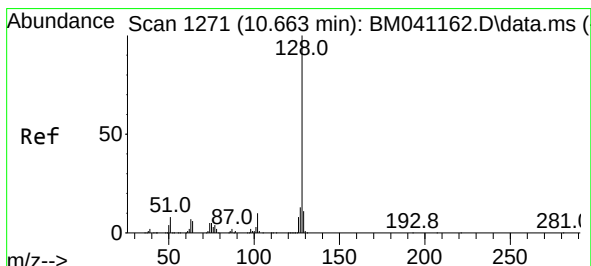
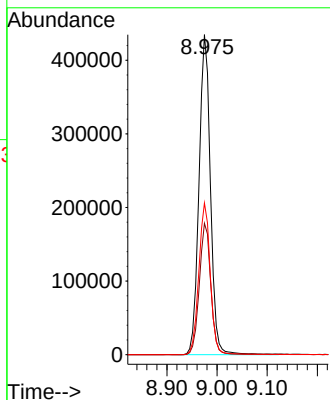
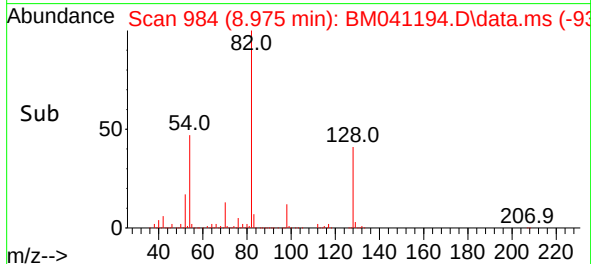
Instrument :
BNA_M
ClientSampleId :
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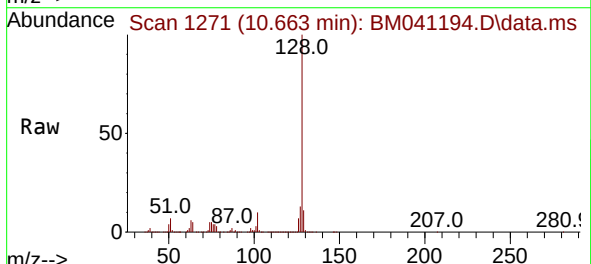
Tgt Ion: 82 Resp: 68821
Ion Ratio Lower Upper
82 100
128 41.1 31.8 47.6
54 47.4 40.1 60.1

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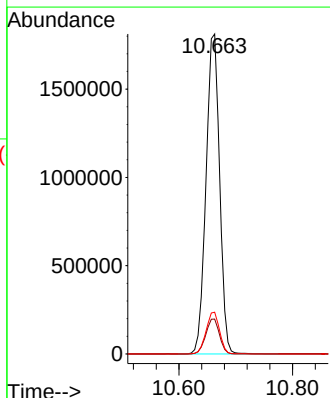
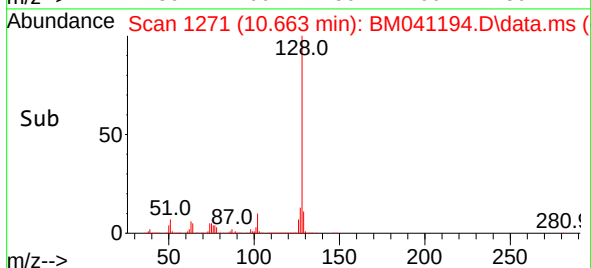
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

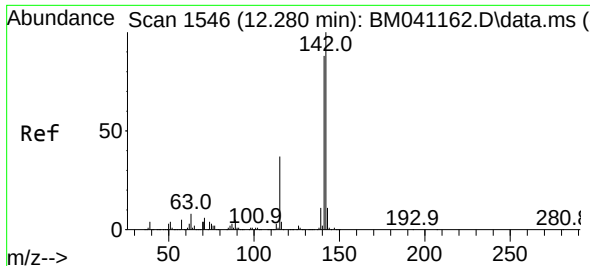


#31
Naphthalene
Concen: 96.132 ng
RT: 10.663 min Scan# 1271
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



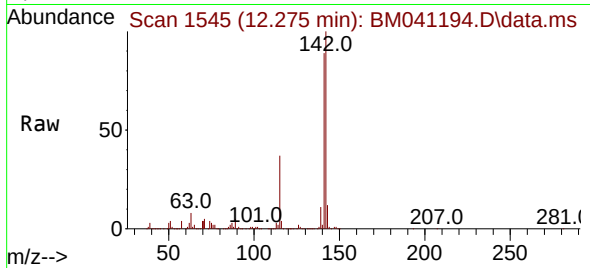
Tgt Ion:128 Resp: 2994933
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.4
127 13.0 10.5 15.7





#37
2-Methylnaphthalene
Concen: 42.098 ng
RT: 12.275 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

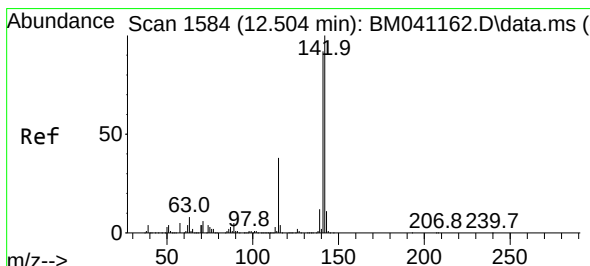
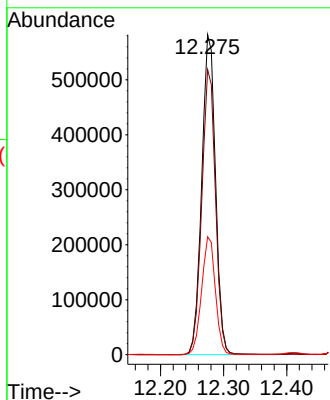
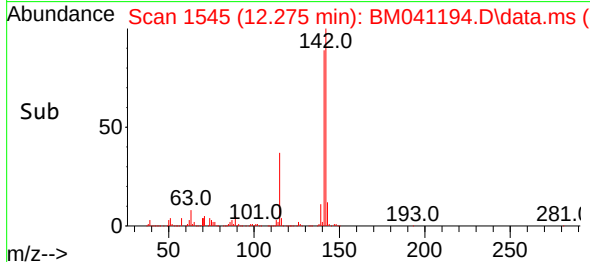
Instrument :
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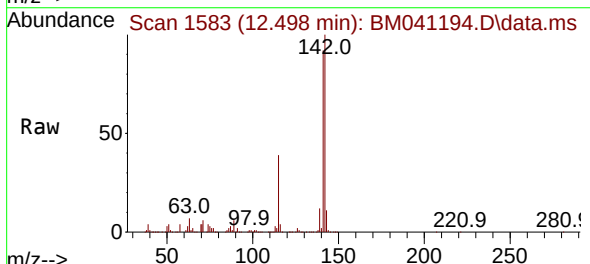
Tgt Ion:142 Resp: 884211
Ion Ratio Lower Upper
142 100
141 89.0 70.7 106.1
115 36.8 29.3 43.9

Manual Integrations
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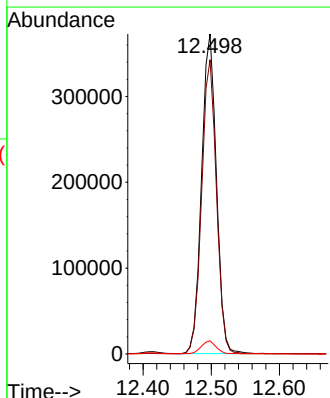
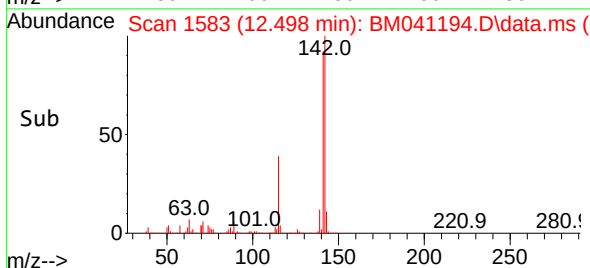
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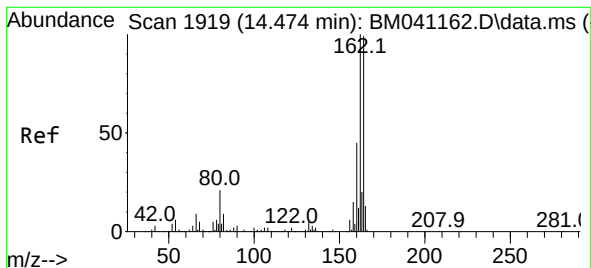


#38
1-Methylnaphthalene
Concen: 28.690 ng
RT: 12.498 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



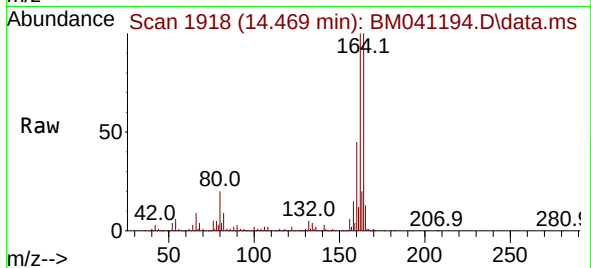
Tgt Ion:142 Resp: 563984
Ion Ratio Lower Upper
142 100
141 91.9 73.4 110.2
116 4.1 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.469 min Scan# 1918
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

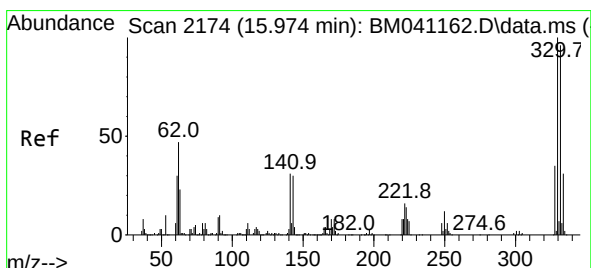
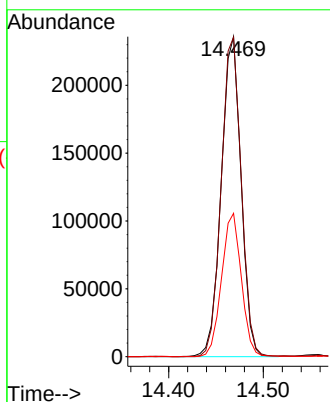
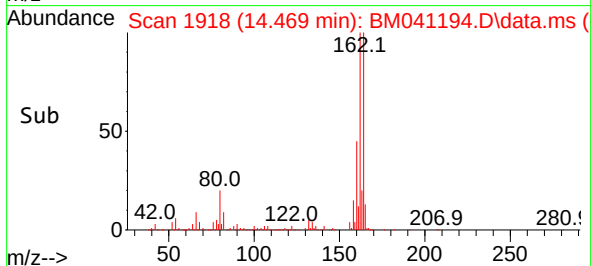
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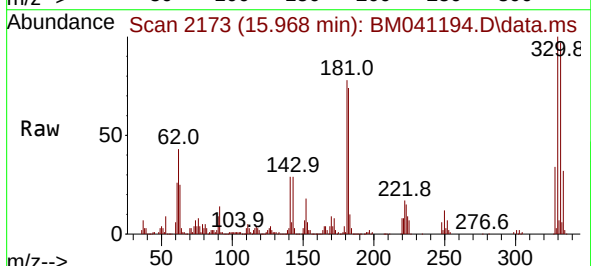
Tgt Ion:164 Resp: 342890
Ion Ratio Lower Upper
164 100
162 99.9 80.4 120.6
160 44.8 36.2 54.2

Manual Integrations
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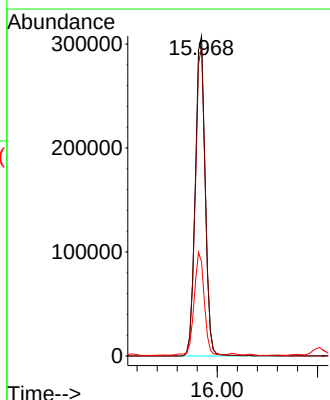
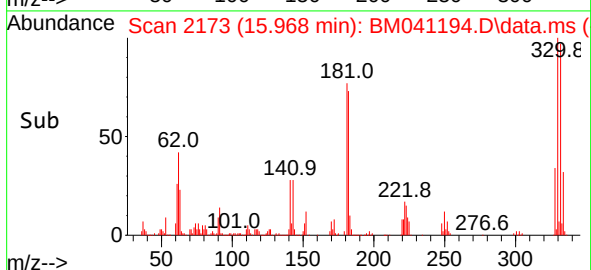
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Supervised By :mohammad ahmed 08/01/2023

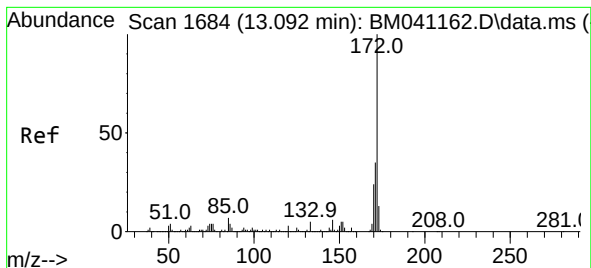


#42
2,4,6-Tribromophenol
Concen: 86.750 ng
RT: 15.968 min Scan# 2173
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



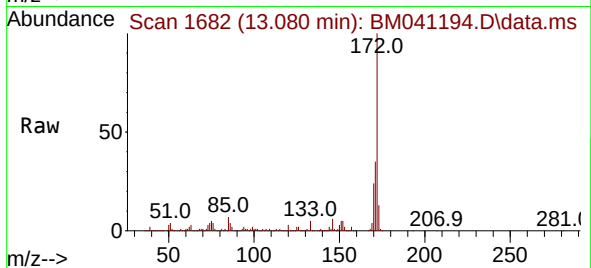
Tgt Ion:330 Resp: 420746
Ion Ratio Lower Upper
330 100
332 96.9 77.7 116.5
141 33.4 28.3 42.5





#45
2-Fluorobiphenyl
Concen: 53.710 ng
RT: 13.080 min Scan# 1682
Delta R.T. -0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

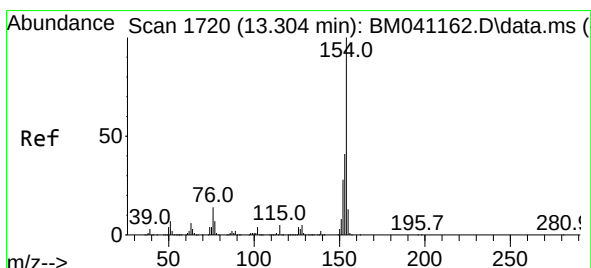
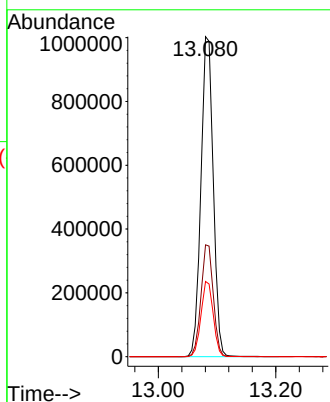
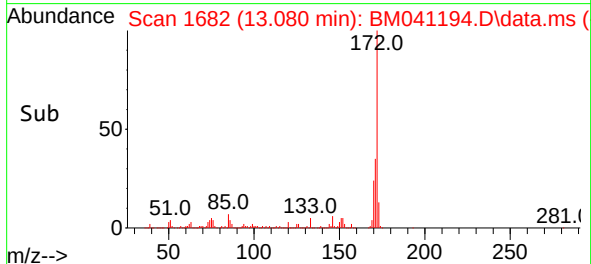
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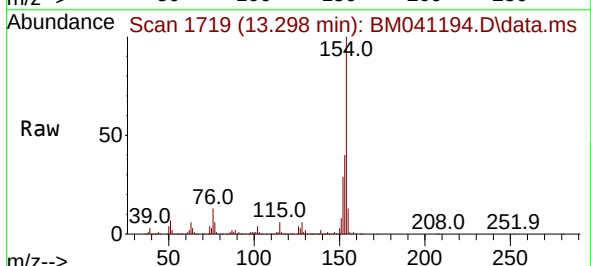
Tgt Ion:172 Resp: 145790
Ion Ratio Lower Upper
172 100
171 35.0 28.1 42.1
170 23.5 18.9 28.3

Manual Integrations
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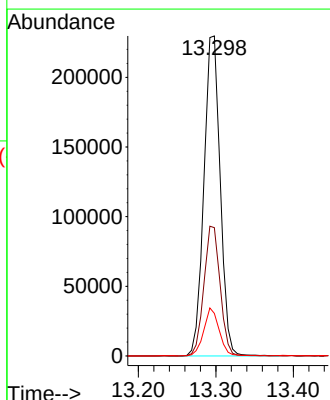
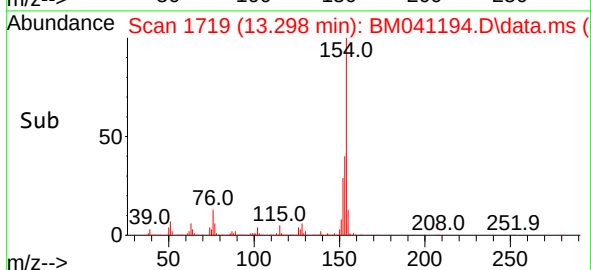
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

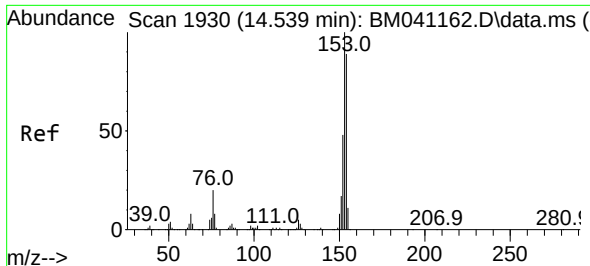


#46
1,1'-Biphenyl
Concen: 12.058 ng
RT: 13.298 min Scan# 1719
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



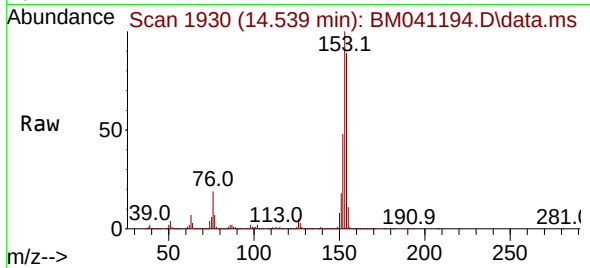
Tgt Ion:154 Resp: 335186
Ion Ratio Lower Upper
154 100
153 40.1 20.5 60.5
76 13.3 0.0 34.1





#52
Acenaphthene
Concen: 193.325 ng
RT: 14.539 min Scan# 1930
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

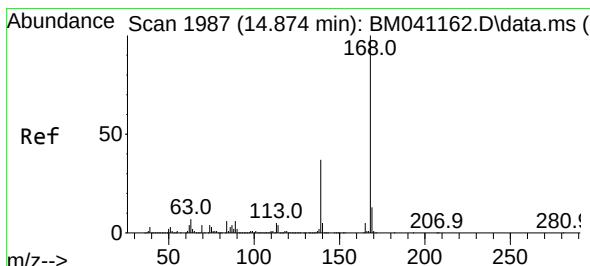
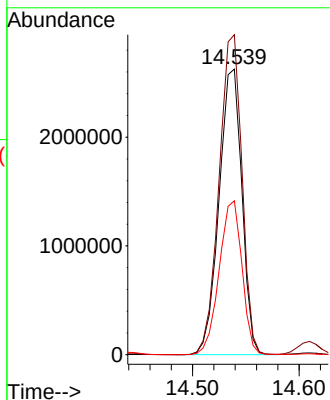
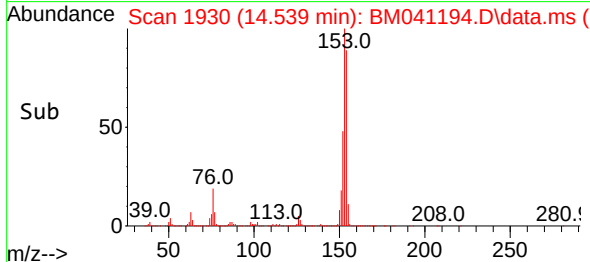
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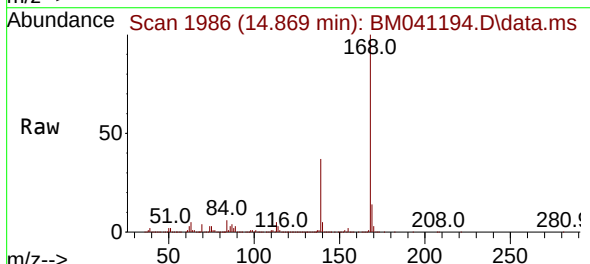
Tgt Ion:154 Resp: 390177
Ion Ratio Lower Upper
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153 112.1 90.2 135.4
152 53.9 43.4 65.0

Manual Integrations
APPROVED

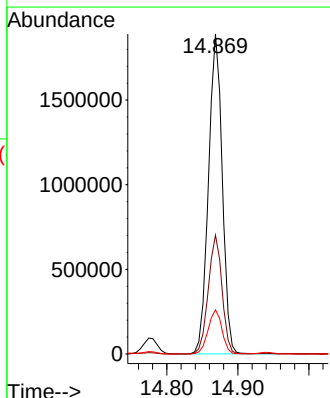
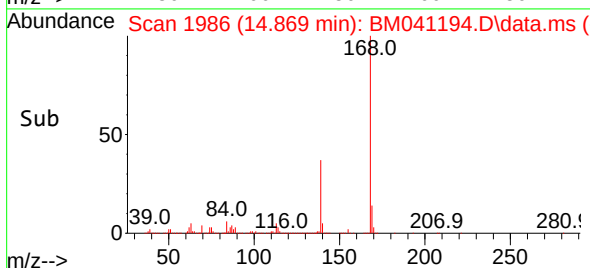
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

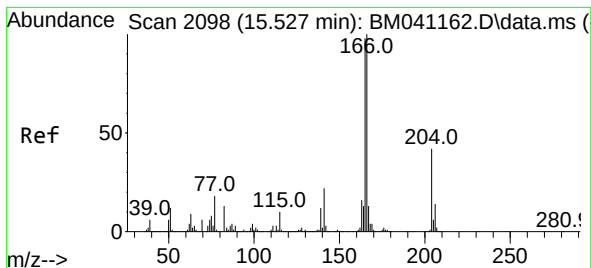


#55
Dibenzofuran
Concen: 77.314 ng
RT: 14.869 min Scan# 1986
Delta R.T. 0.000 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



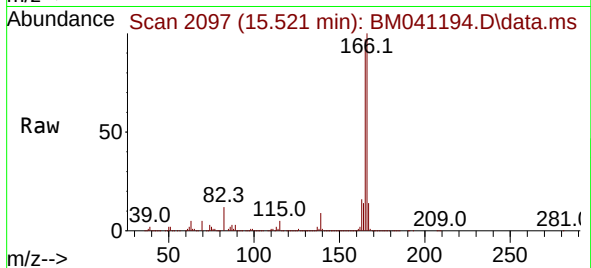
Tgt Ion:168 Resp: 2545838
Ion Ratio Lower Upper
168 100
139 37.1 29.8 44.6
169 13.8 10.5 15.7





#58
Fluorene
Concen: 136.057 ng
RT: 15.521 min Scan# 2098
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

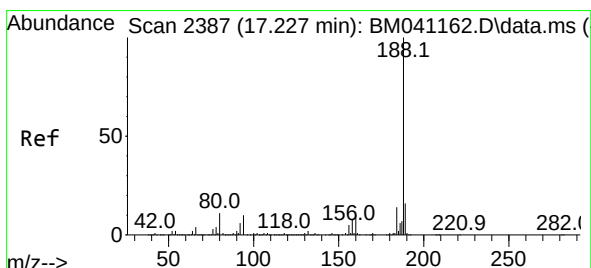
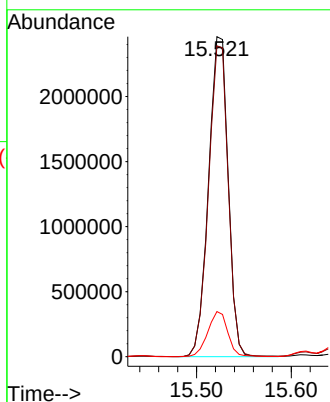
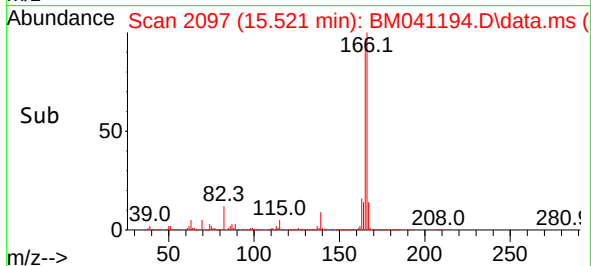
Instrument :
BNA_M
ClientSampleId :
FL-1



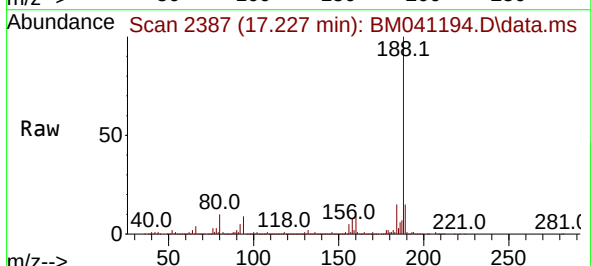
Tgt Ion:166 Resp: 353437
Ion Ratio Lower Upper
166 100
165 97.2 78.2 117.4
167 14.1 10.6 16.0

Manual Integrations
APPROVED

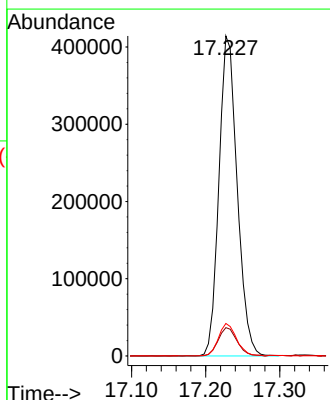
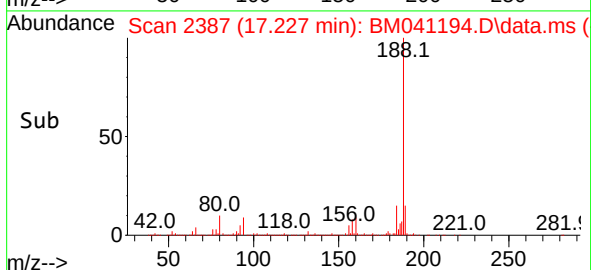
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

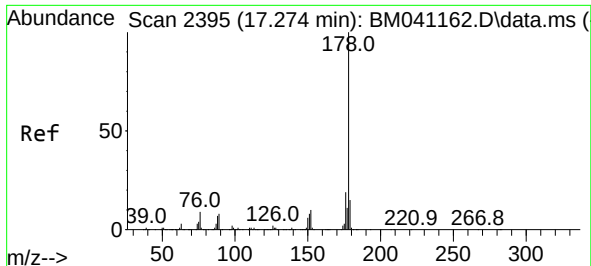


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. 0.006 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



Tgt Ion:188 Resp: 708209
Ion Ratio Lower Upper
188 100
94 8.9 8.2 12.2
80 10.2 8.6 13.0





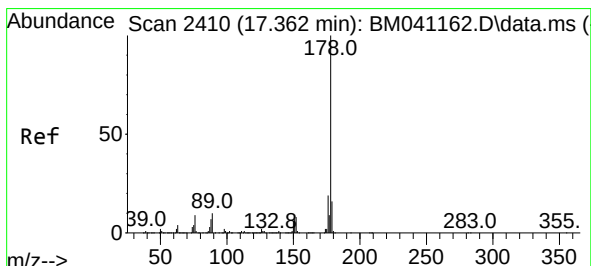
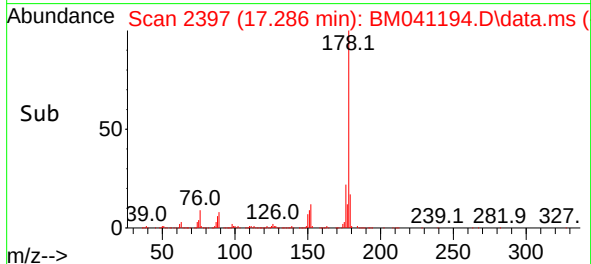
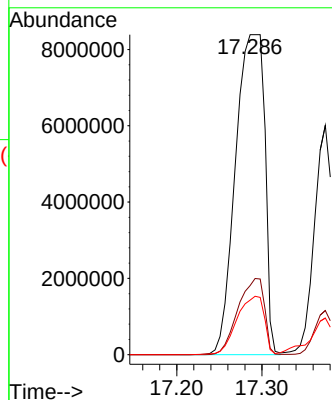
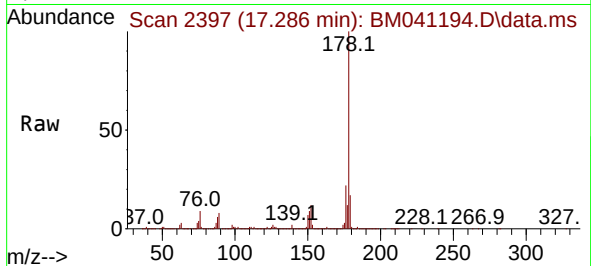
#71
Phenanthrene
Concen: 508.194 ng
RT: 17.286 min Scan# 21
Delta R.T. 0.018 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

Instrument :
BNA_M
ClientSampleId :
FL-1

Tgt Ion:178 Resp:19996670
Ion Ratio Lower Upper
178 100
176 21.6 15.6 23.4
179 17.1 12.1 18.1

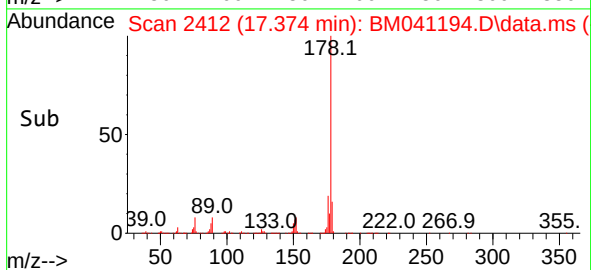
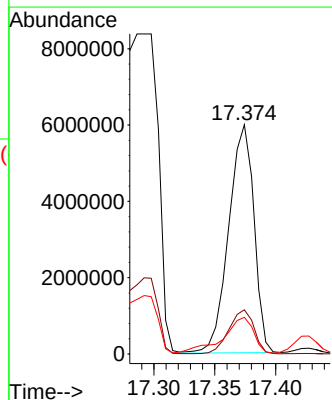
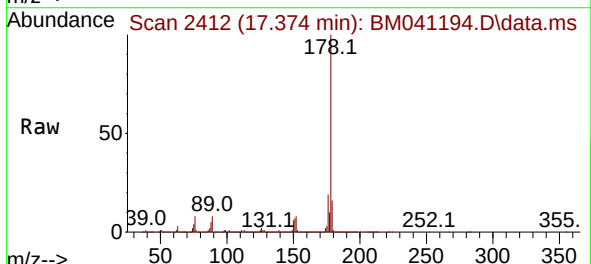
Manual Integrations
APPROVED

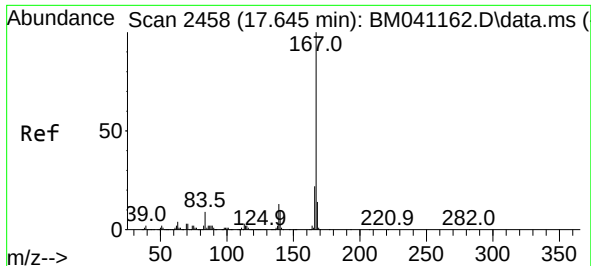
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#72
Anthracene
Concen: 221.794 ng
RT: 17.374 min Scan# 2412
Delta R.T. 0.018 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

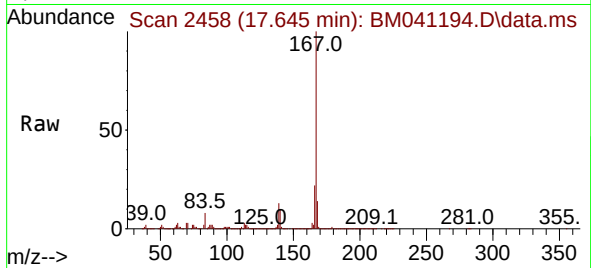
Tgt Ion:178 Resp: 8631403
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 16.0 12.4 18.6





#73
 Carbazole
 Concen: 109.983 ng
 RT: 17.645 min Scan# 2458
 Delta R.T. 0.006 min
 Lab File: BM041194.D
 Acq: 31 Jul 2023 18:03

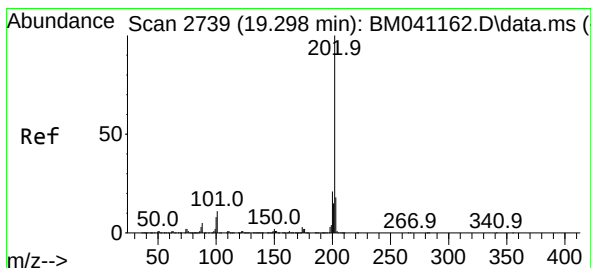
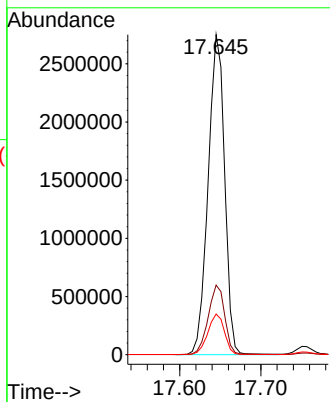
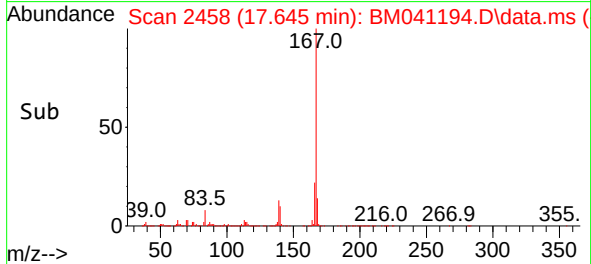
Instrument :
 BNA_M
 ClientSampleId :
 FL-1



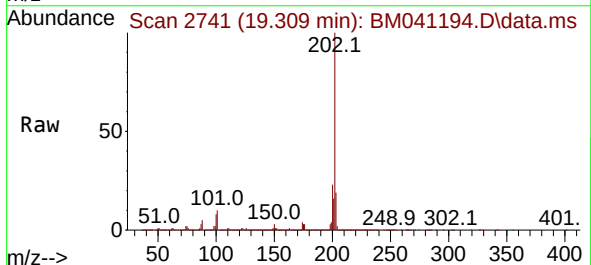
Tgt Ion:167 Resp: 3873958
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.3 25.9
 139 12.7 10.3 15.5

Manual Integrations
 APPROVED

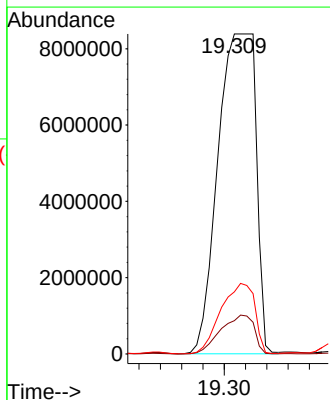
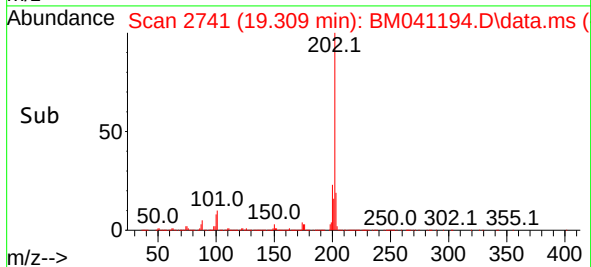
Reviewed By :Yogesh Patel 08/01/2023
 Supervised By :mohammad ahmed 08/01/2023

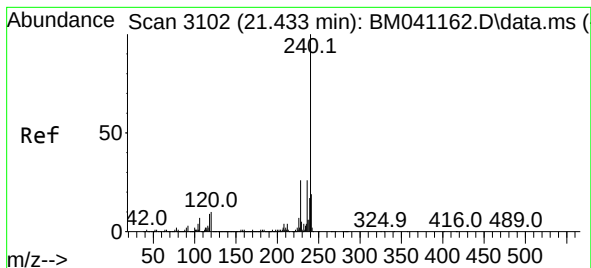


#75
 Fluoranthene
 Concen: 470.955 ng
 RT: 19.309 min Scan# 2741
 Delta R.T. 0.018 min
 Lab File: BM041194.D
 Acq: 31 Jul 2023 18:03



Tgt Ion:202 Resp:20819603
 Ion Ratio Lower Upper
 202 100
 101 10.4 0.0 30.8
 203 19.4 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.445 min Scan# 3104

Delta R.T. 0.018 min

Lab File: BM041194.D

Acq: 31 Jul 2023 18:03

Instrument :

BNA_M

ClientSampleId :

FL-1

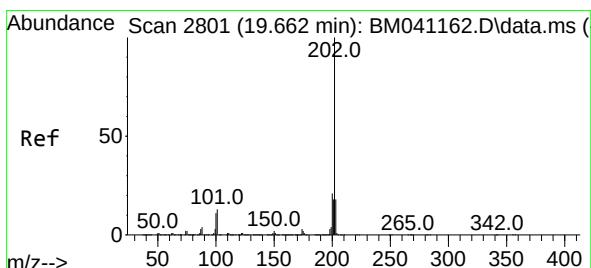
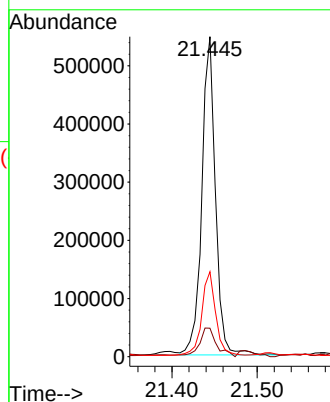
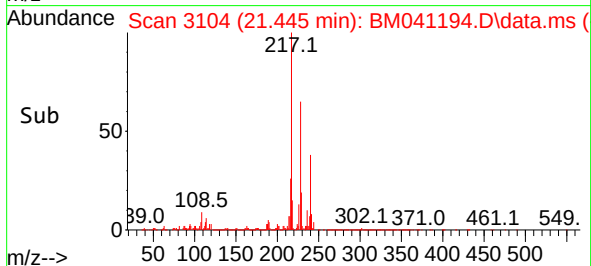
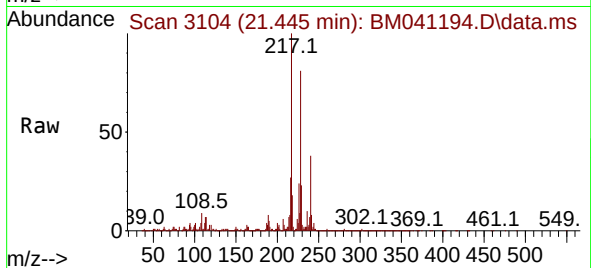
Tgt Ion:240 Resp: 607470
 Ion Ratio Lower Upper
 240 100
 120 8.9 8.3 12.5
 236 26.6 20.6 30.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#78

Pyrene

Concen: 464.618 ng

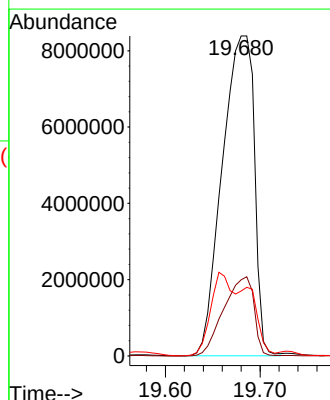
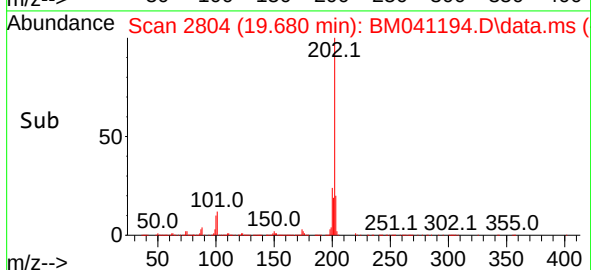
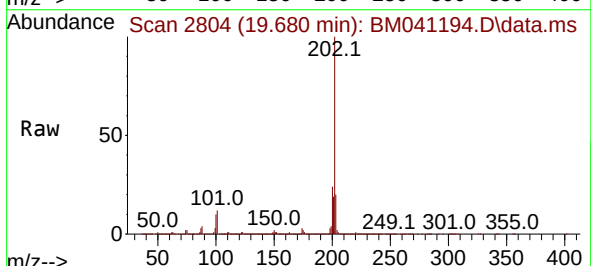
RT: 19.680 min Scan# 2804

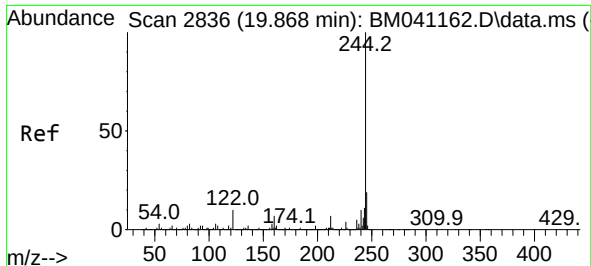
Delta R.T. 0.024 min

Lab File: BM041194.D

Acq: 31 Jul 2023 18:03

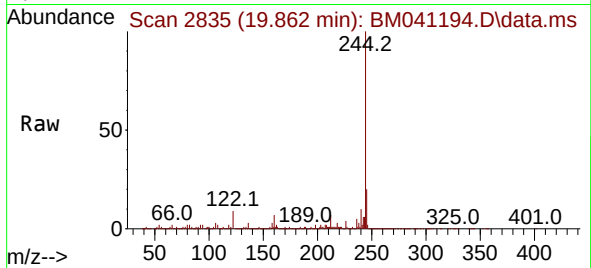
Tgt Ion:202 Resp:19737526
 Ion Ratio Lower Upper
 202 100
 200 23.8 16.9 25.3
 203 20.3 14.1 21.1





#79
 Terphenyl-d14
 Concen: 59.299 ng
 RT: 19.862 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BM041194.D
 Acq: 31 Jul 2023 18:03

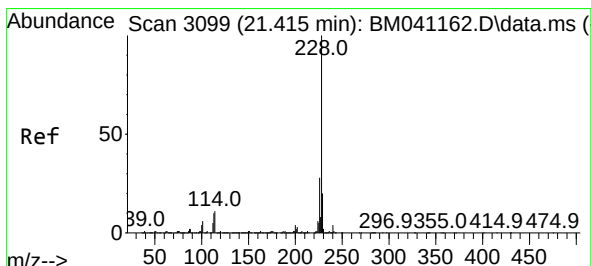
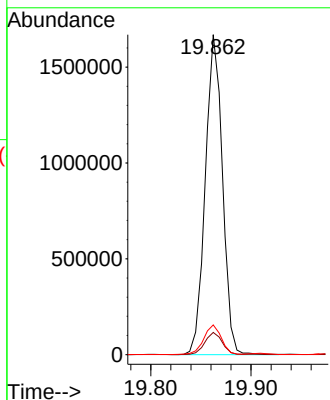
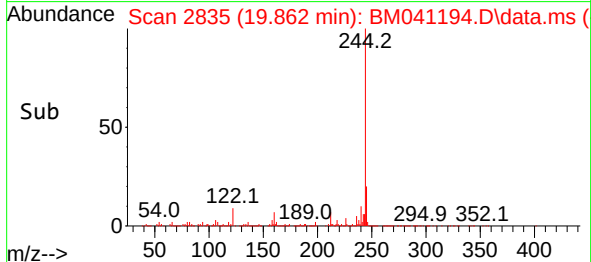
Instrument :
 BNA_M
 ClientSampleId :
 FL-1



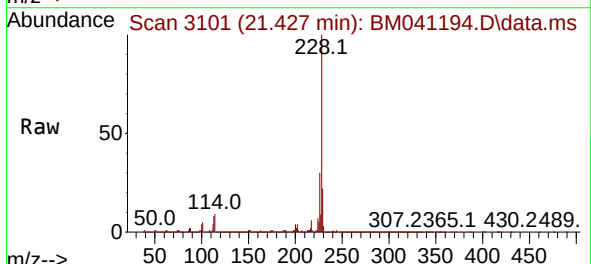
Tgt Ion:244 Resp: 199233
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.4 8.2
 122 9.3 7.8 11.6

Manual Integrations
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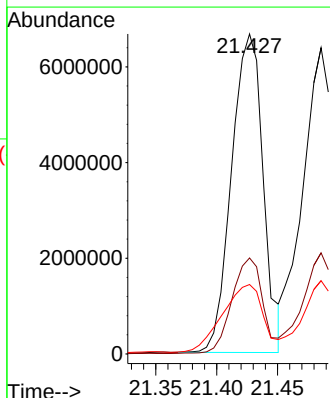
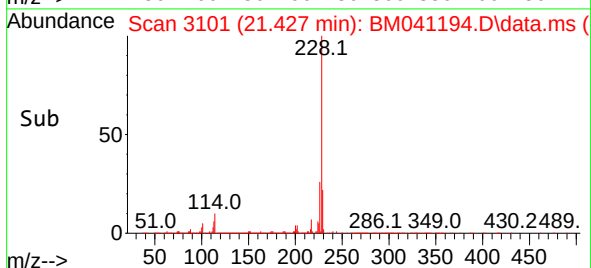
Reviewed By :Yogesh Patel 08/01/2023
 Supervised By :mohammad ahmed 08/01/2023

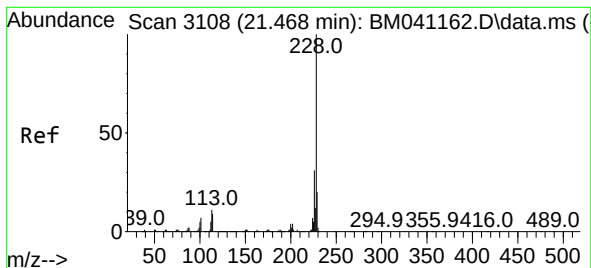


#81
 Benzo(a)anthracene
 Concen: 291.490 ng
 RT: 21.427 min Scan# 3101
 Delta R.T. 0.018 min
 Lab File: BM041194.D
 Acq: 31 Jul 2023 18:03



Tgt Ion:228 Resp:12004001
 Ion Ratio Lower Upper
 228 100
 226 30.0 22.4 33.6
 229 21.7 15.8 23.8





#83

Chrysene

Concen: 265.718 ng m

RT: 21.486 min Scan# 31

Delta R.T. 0.024 min

Lab File: BM041194.D

Acq: 31 Jul 2023 18:03

Instrument :

BNA_M

ClientSampleId :

FL-1

Tgt Ion:228 Resp:1058424

Ion Ratio Lower Upper

228 100

226 33.0 24.5 36.7

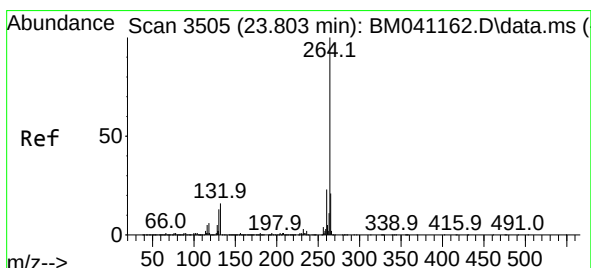
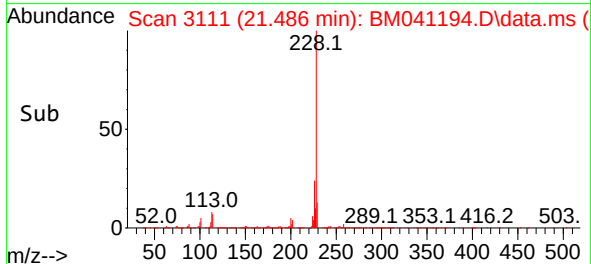
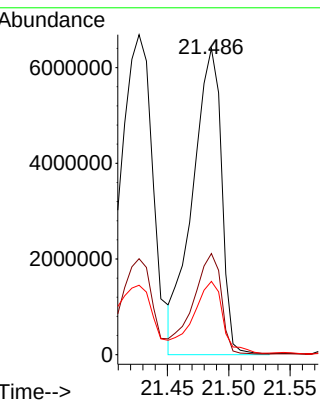
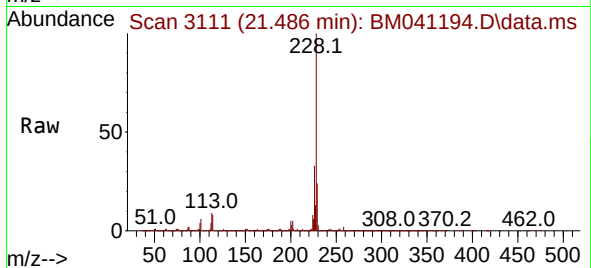
229 24.0 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.815 min Scan# 3507

Delta R.T. 0.018 min

Lab File: BM041194.D

Acq: 31 Jul 2023 18:03

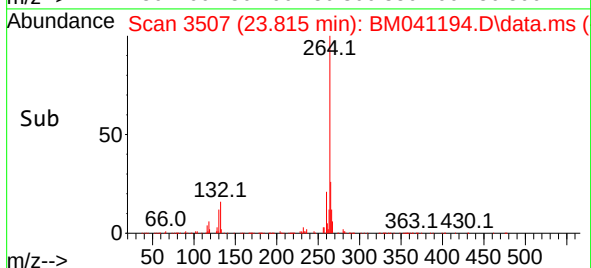
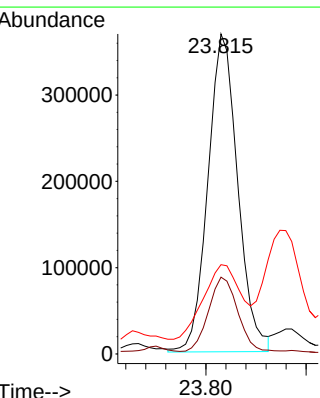
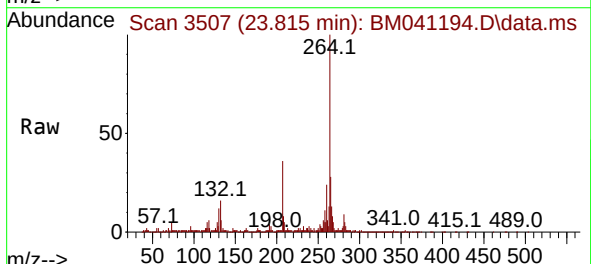
Tgt Ion:264 Resp: 759566

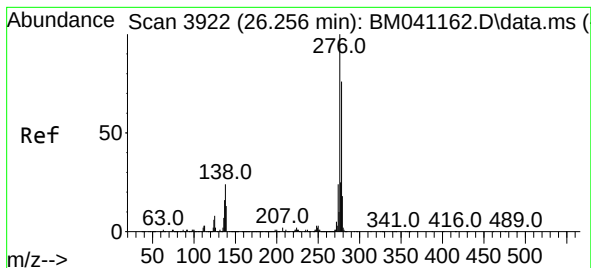
Ion Ratio Lower Upper

264 100

260 24.0 18.5 27.7

265 27.9 17.4 26.0#





#87

Indeno(1,2,3-cd)pyrene

Concen: 127.030 ng

RT: 26.303 min Scan# 3922

Delta R.T. 0.059 min

Lab File: BM041194.D

Acq: 31 Jul 2023 18:03

Instrument :

BNA_M

ClientSampleId :

FL-1

Tgt Ion:276 Resp: 709393

Ion Ratio Lower Upper

276 100

138 17.9 20.0 30.0

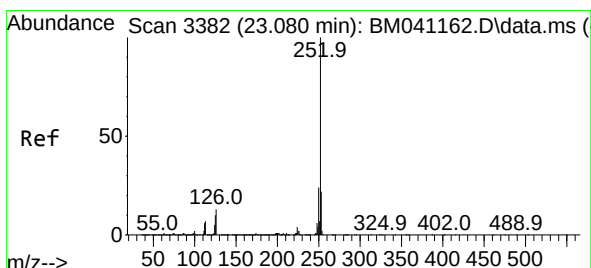
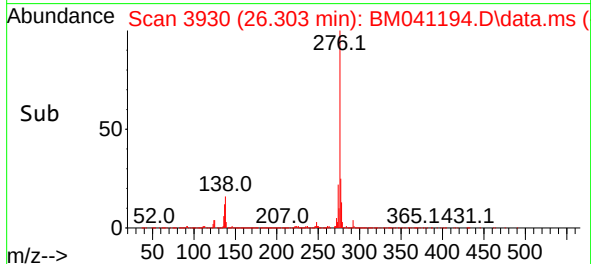
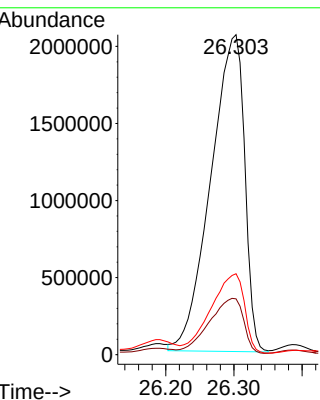
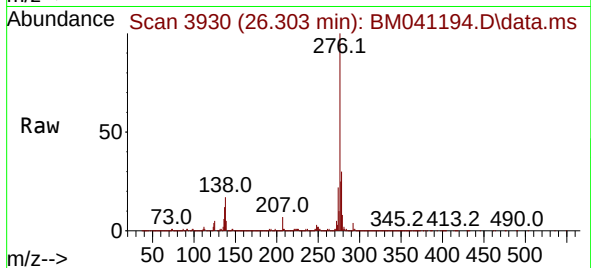
277 25.1 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#88

Benzo(b)fluoranthene

Concen: 325.896 ng

RT: 23.115 min Scan# 3388

Delta R.T. 0.041 min

Lab File: BM041194.D

Acq: 31 Jul 2023 18:03

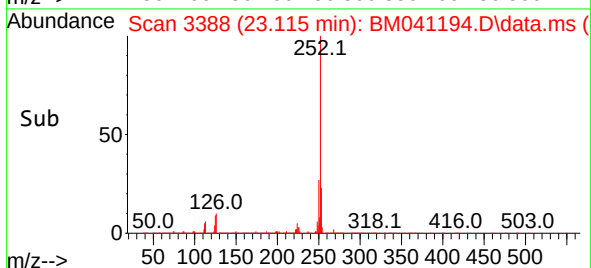
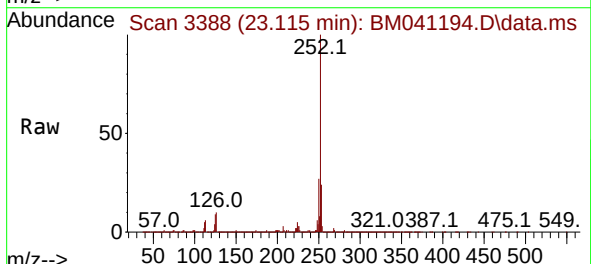
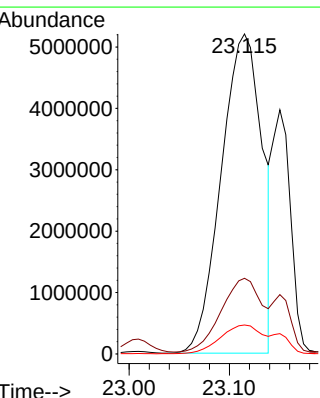
Tgt Ion:252 Resp:14705364

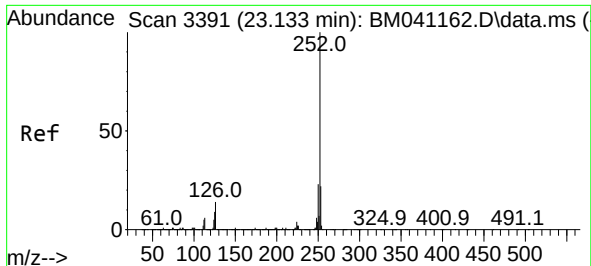
Ion Ratio Lower Upper

252 100

253 23.6 17.7 26.5

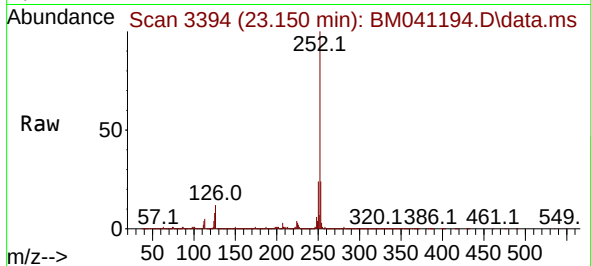
125 9.0 8.2 12.4





#89
Benzo(k)fluoranthene
Concen: 108.900 ng m
RT: 23.150 min Scan# 31
Delta R.T. 0.029 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03

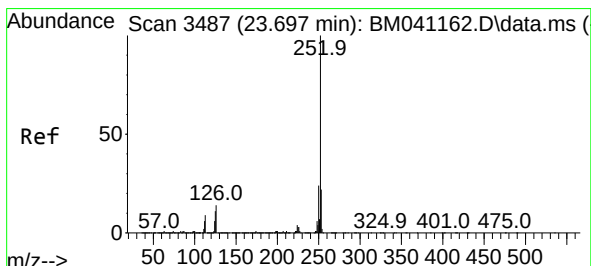
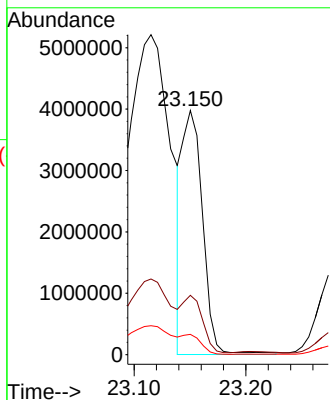
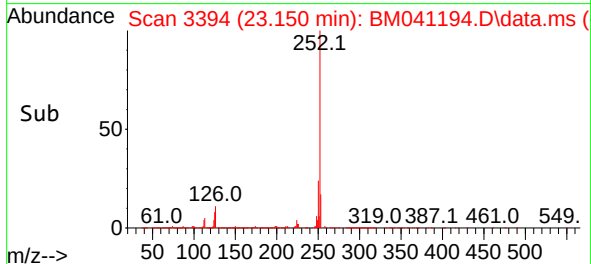
Instrument :
BNA_M
ClientSampleId :
FL-1



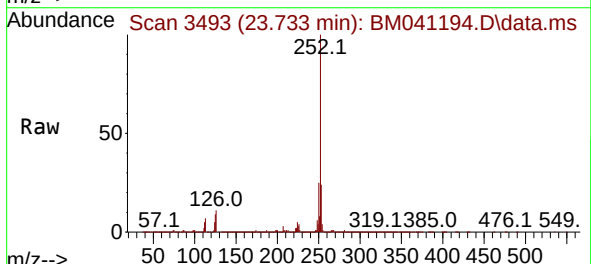
Tgt Ion:252 Resp: 5026449
Ion Ratio Lower Upper
252 100
253 24.3 17.4 26.0
125 8.3 7.6 11.4

Manual Integrations
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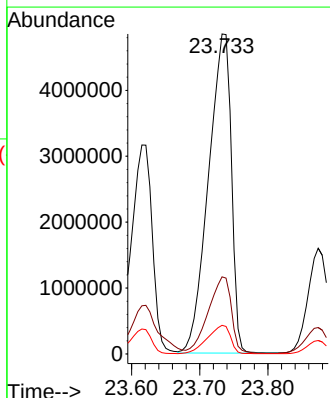
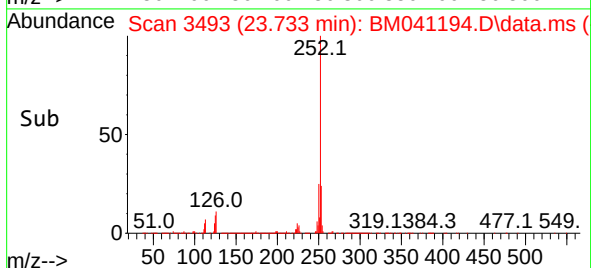
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

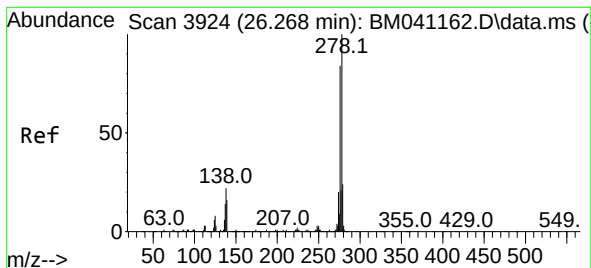


#90
Benzo(a)pyrene
Concen: 260.713 ng
RT: 23.733 min Scan# 3493
Delta R.T. 0.041 min
Lab File: BM041194.D
Acq: 31 Jul 2023 18:03



Tgt Ion:252 Resp:11303670
Ion Ratio Lower Upper
252 100
253 24.1 17.3 25.9
125 9.0 9.0 13.4





#91

Dibenzo(a,h)anthracene

Concen: 42.422 ng

RT: 26.297 min Scan# 3924

Delta R.T. 0.041 min

Lab File: BM041194.D

Acq: 31 Jul 2023 18:03

Instrument :

BNA_M

ClientSampleId :

FL-1

Tgt Ion:278 Resp: 1975958

Ion Ratio Lower Upper

278 100

139 16.5 12.7 19.1

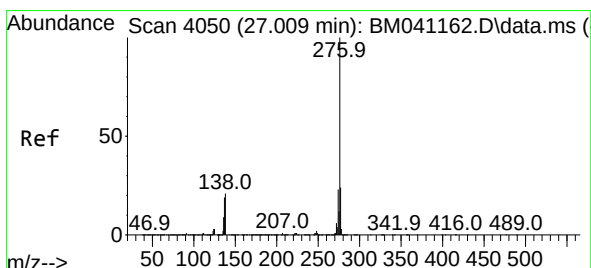
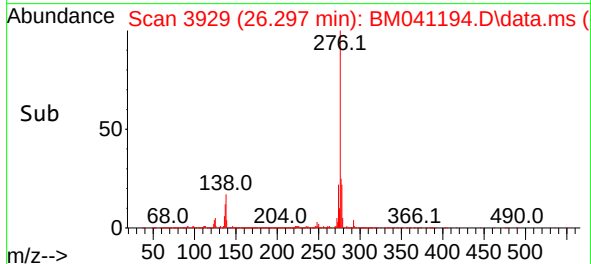
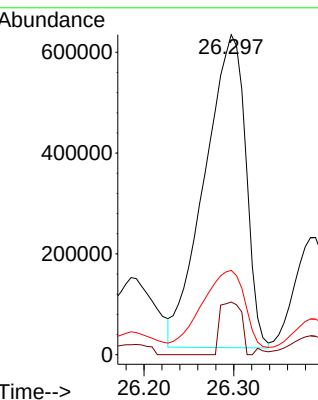
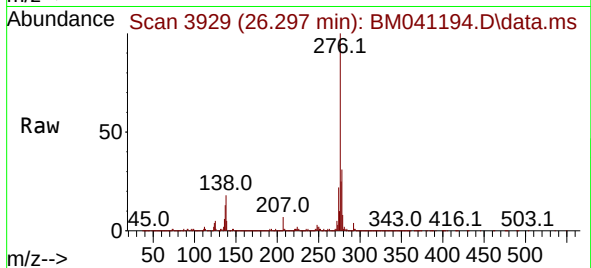
279 26.3 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#92

Benzo(g,h,i)perylene

Concen: 140.716 ng

RT: 27.062 min Scan# 4059

Delta R.T. 0.065 min

Lab File: BM041194.D

Acq: 31 Jul 2023 18:03

Tgt Ion:276 Resp: 6413406

Ion Ratio Lower Upper

276 100

277 25.3 19.1 28.7

138 18.2 17.1 25.7

