

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM073123\
 Data File : BM041196.D
 Acq On : 31 Jul 2023 19:18
 Operator : MA/JU
 Sample : 03770-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DEL-2-RP

Manual Integrations
 APPROVED

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

Quant Time: Jul 31 19:48:02 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	7.799	152	157982	20.000	ng	0.00
21) Naphthalene-d8	10.604	136	597910	20.000	ng	0.00
39) Acenaphthene-d10	14.463	164	336764	20.000	ng	0.00
64) Phenanthrene-d10	17.222	188	693303	20.000	ng	0.00
76) Chrysene-d12	21.427	240	638321	20.000	ng	0.00
86) Perylene-d12	23.804	264	711385	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	921118	87.142	ng	0.00
7) Phenol-d6	6.981	99	1213931	88.598	ng	0.00
23) Nitrobenzene-d5	8.975	82	749934	58.329	ng	0.00
42) 2,4,6-Tribromophenol	15.963	330	464091	97.430	ng	0.00
45) 2-Fluorobiphenyl	13.081	172	1436471	53.884	ng	0.00
79) Terphenyl-d14	19.863	244	1847647	52.335	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.657	128	85455	2.634	ng	99
49) Acenaphthylene	14.187	152	290623	8.833	ng	99
52) Acenaphthene	14.528	154	80200	4.046	ng	98
55) Dibenzofuran	14.869	168	79815	2.468	ng	96
58) Fluorene	15.516	166	105811	4.147	ng	# 99
71) Phenanthrene	17.269	178	2227606	57.829	ng	99
72) Anthracene	17.357	178	678958	17.822	ng	99
73) Carbazole	17.639	167	286068	8.296	ng	99
74) Di-n-butylphthalate	18.198	149	101508	2.605	ng	97
75) Fluoranthene	19.298	202	5132349	118.594	ng	98
78) Pyrene	19.663	202	4428964	99.218	ng	99
81) Benzo(a)anthracene	21.410	228	2525687	58.366	ng	99
83) Chrysene	21.463	228	2317672	55.373	ng	97
84) Bis(2-ethylhexyl)phtha...	21.333	149	116553	6.803	ng	# 96
87) Indeno(1,2,3-cd)pyrene	26.250	276	1536075	29.369	ng	# 94
88) Benzo(b)fluoranthene	23.086	252	3323571	78.645	ng	98
89) Benzo(k)fluoranthene	23.127	252	1021102m	23.621	ng	
90) Benzo(a)pyrene	23.698	252	2221993	54.720	ng	96
91) Dibenzo(a,h)anthracene	26.256	278	416780	9.554	ng	# 80
92) Benzo(g,h,i)perylene	27.015	276	1438613	33.702	ng	97

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

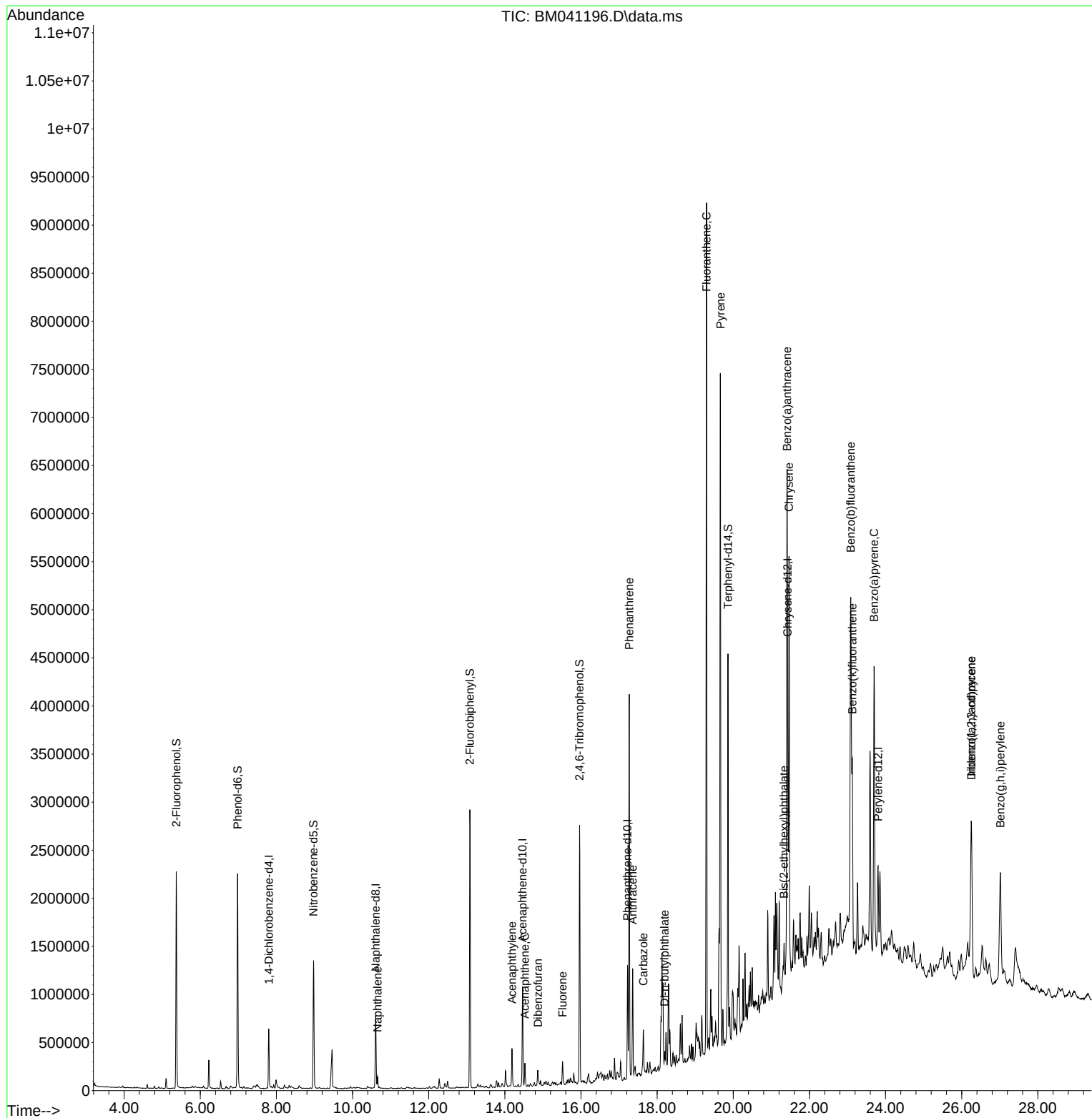
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM073123\
Data File : BM041196.D
Acq On : 31 Jul 2023 19:18
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Sample : 03770-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

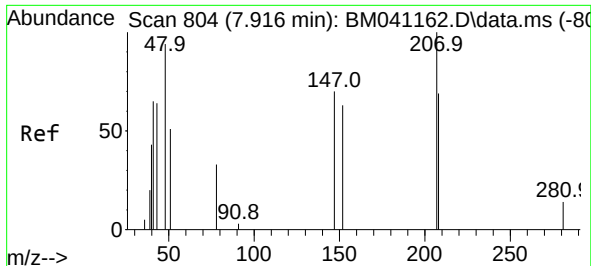
Instrument :
BNA_M
ClientSampleId :
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Quant Time: Jul 31 19:48:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 31 16:29:28 2023
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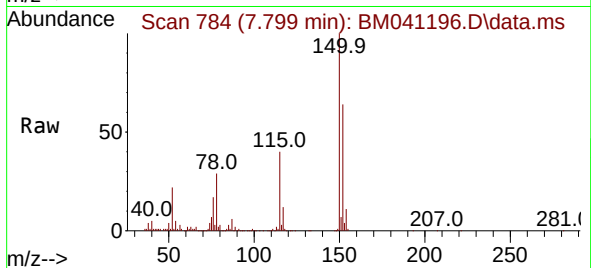
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.799 min Scan# 71
Delta R.T. 0.001 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

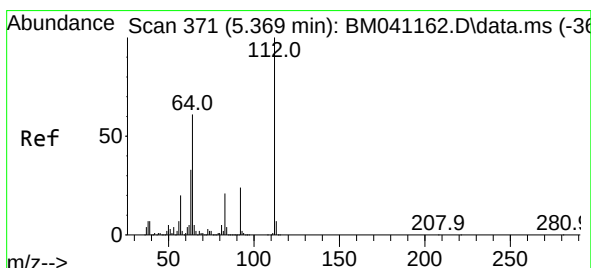
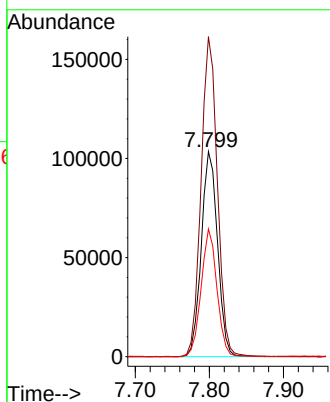
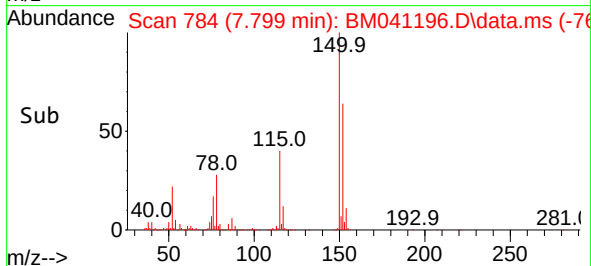
Instrument :
BNA_M
ClientSampleId :
DEL-2-RP



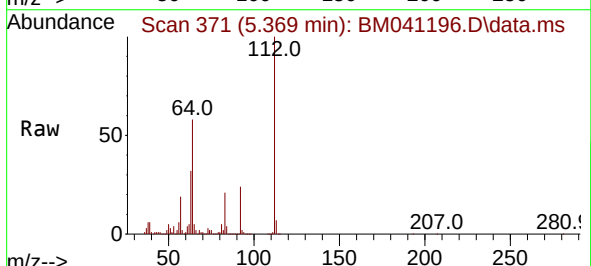
Tgt Ion:152 Resp: 15798
Ion Ratio Lower Upper
152 100
150 156.0 125.5 188.3
115 62.2 48.0 72.0

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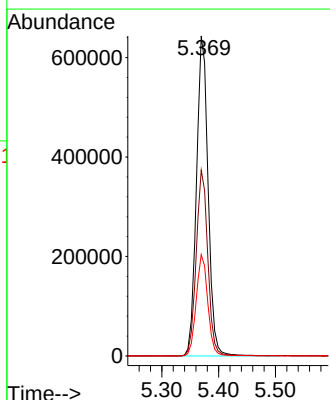
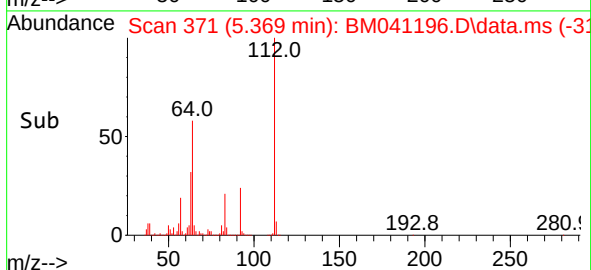
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

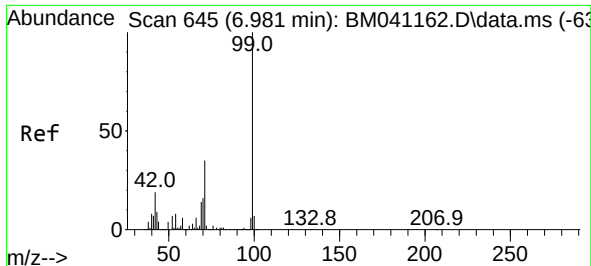


#5
2-Fluorophenol
Concen: 87.142 ng
RT: 5.369 min Scan# 371
Delta R.T. 0.006 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18



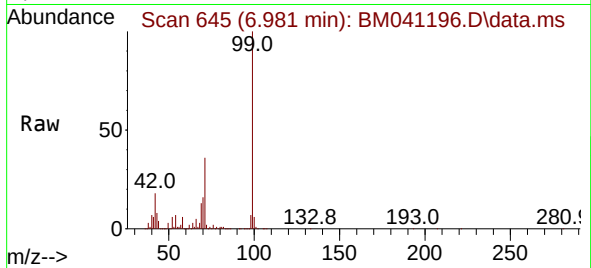
Tgt Ion:112 Resp: 921118
Ion Ratio Lower Upper
112 100
64 58.1 48.5 72.7
63 31.7 26.5 39.7





#7
Phenol-d6
Concen: 88.598 ng
RT: 6.981 min Scan# 645
Delta R.T. 0.006 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

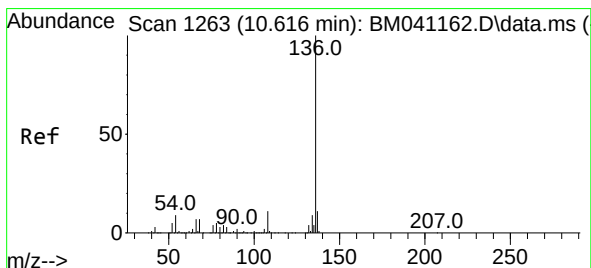
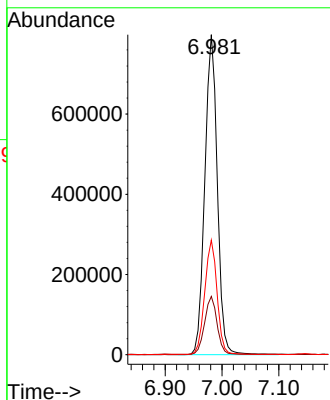
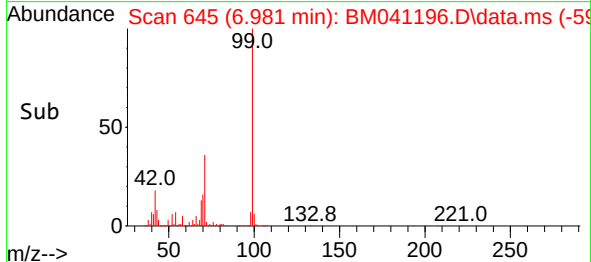
Instrument :
BNA_M
ClientSampleId :
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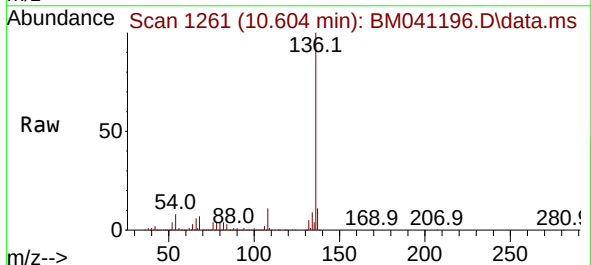
Tgt Ion: 99 Resp: 121393
Ion Ratio Lower Upper
99 100
42 18.2 15.4 23.0
71 35.8 28.2 42.4

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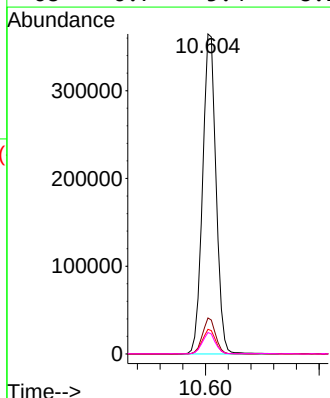
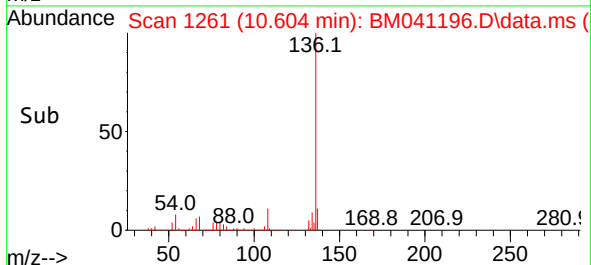
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

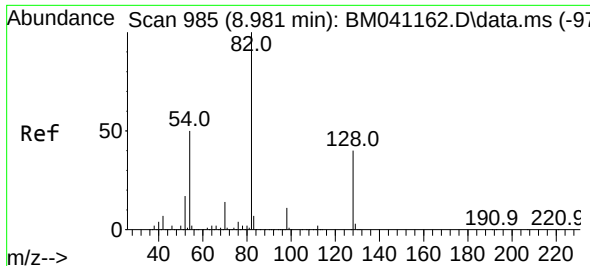


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.604 min Scan# 1261
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18



Tgt Ion:136 Resp: 597910
Ion Ratio Lower Upper
136 100
137 11.3 8.8 13.2
54 7.7 6.9 10.3
68 6.7 5.4 8.2





#23
Nitrobenzene-d5
Concen: 58.329 ng
RT: 8.975 min Scan# 985
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

Instrument :

BNA_M

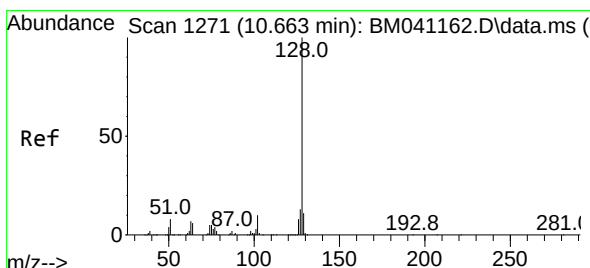
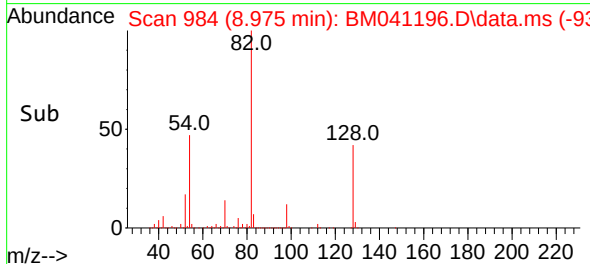
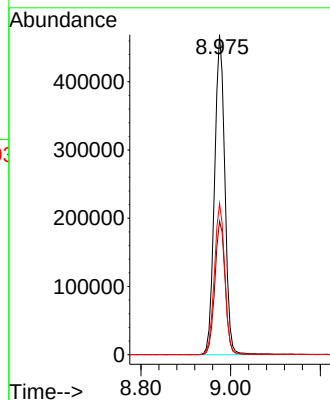
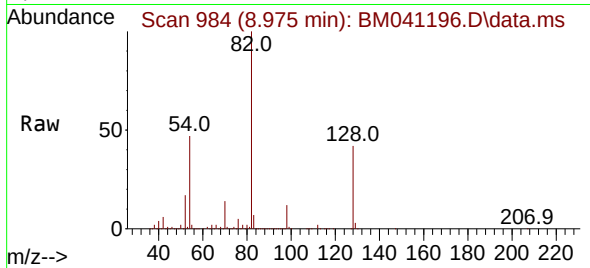
ClientSampleId :

DEL-2-RP

Tgt Ion: 82 Resp: 749934
Ion Ratio Lower Upper
82 100
128 41.7 31.8 47.6
54 47.2 40.1 60.1

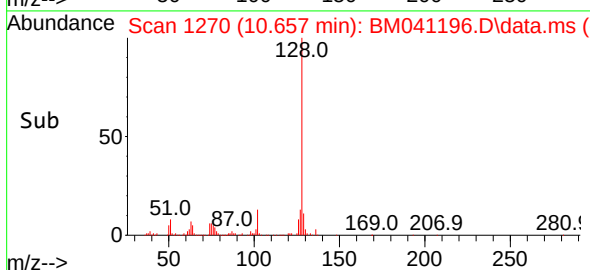
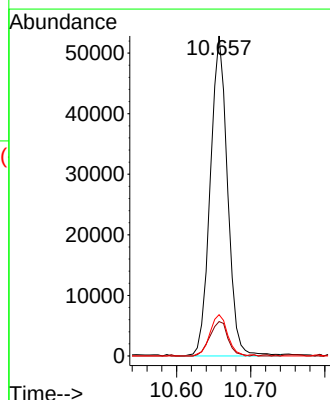
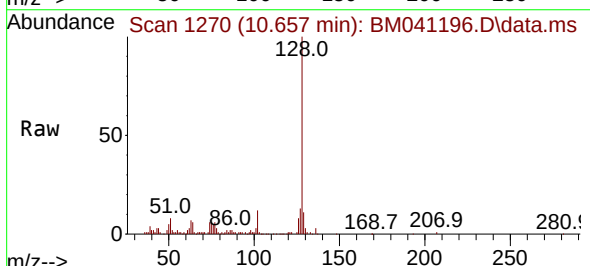
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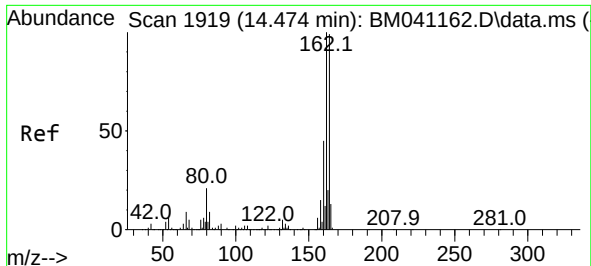
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#31
Naphthalene
Concen: 2.634 ng
RT: 10.657 min Scan# 1270
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

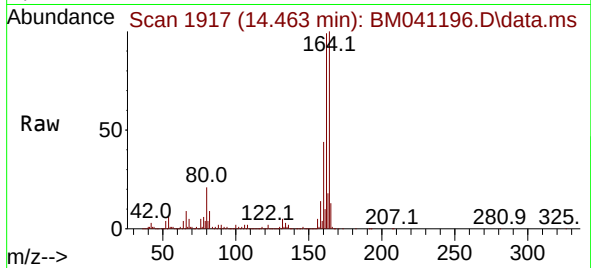
Tgt Ion:128 Resp: 85455
Ion Ratio Lower Upper
128 100
129 10.7 9.0 13.4
127 12.9 10.5 15.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.463 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

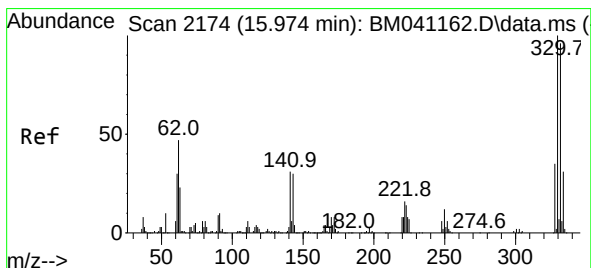
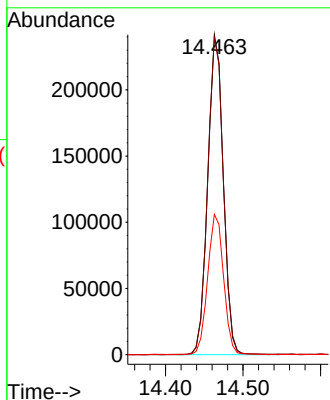
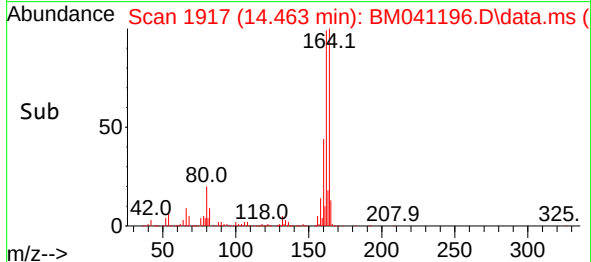
Instrument :
BNA_M
ClientSampleId :
DEL-2-RP



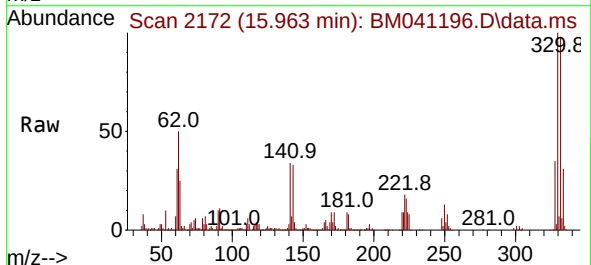
Tgt Ion:164 Resp: 336764
Ion Ratio Lower Upper
164 100
162 99.3 80.4 120.6
160 43.8 36.2 54.2

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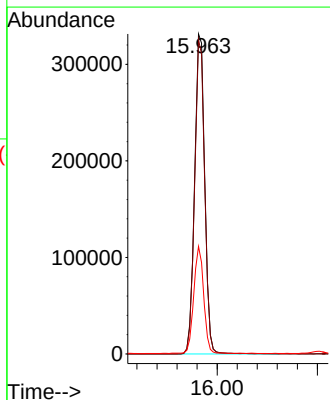
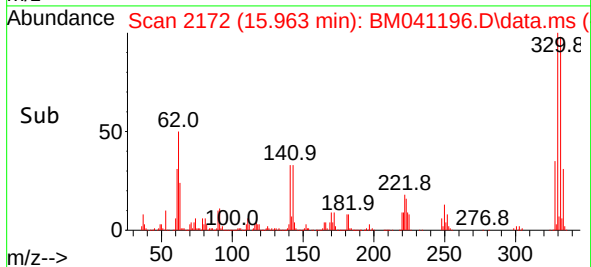
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

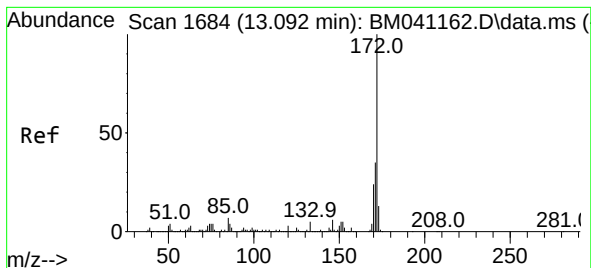


#42
2,4,6-Tribromophenol
Concen: 97.430 ng
RT: 15.963 min Scan# 2172
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18



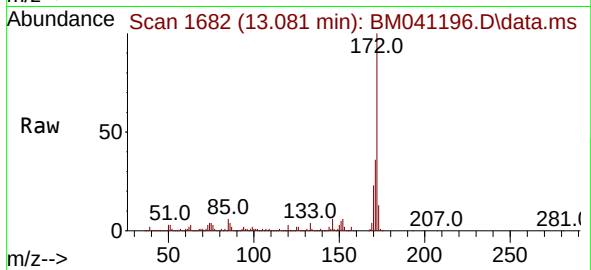
Tgt Ion:330 Resp: 464091
Ion Ratio Lower Upper
330 100
332 97.0 77.7 116.5
141 32.9 28.3 42.5





#45
2-Fluorobiphenyl
Concen: 53.884 ng
RT: 13.081 min Scan# 1684
Delta R.T. -0.006 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

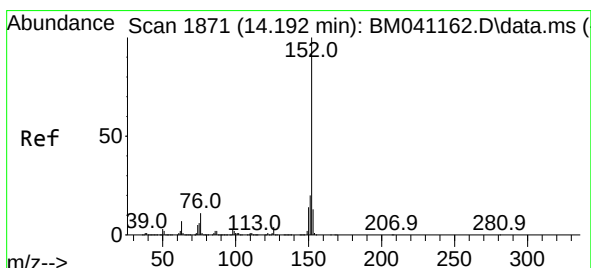
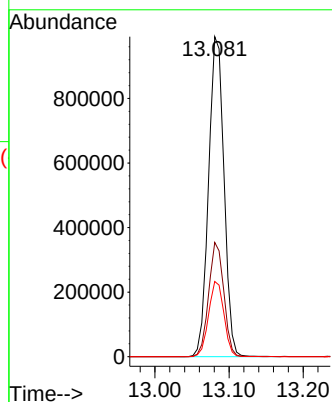
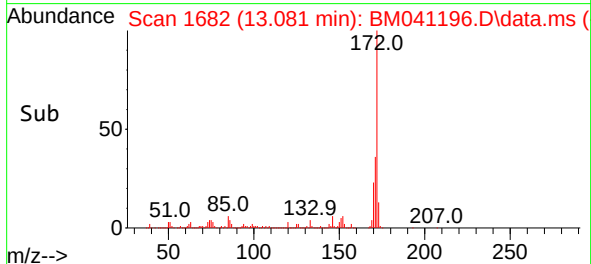
Instrument :
BNA_M
ClientSampleId :
DEL-2-RP



Tgt Ion:172 Resp: 143647
Ion Ratio Lower Upper
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171 35.7 28.1 42.1
170 23.5 18.9 28.3

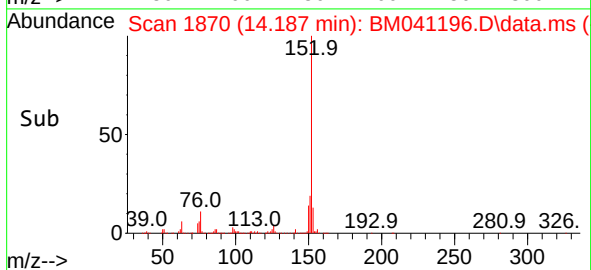
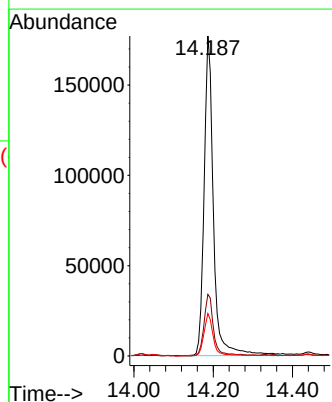
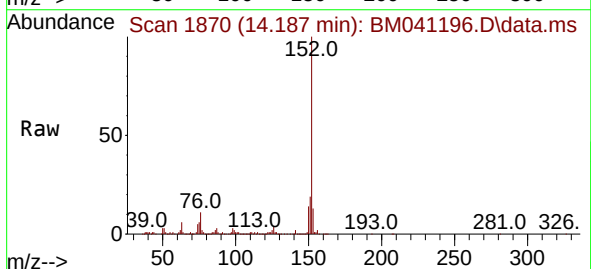
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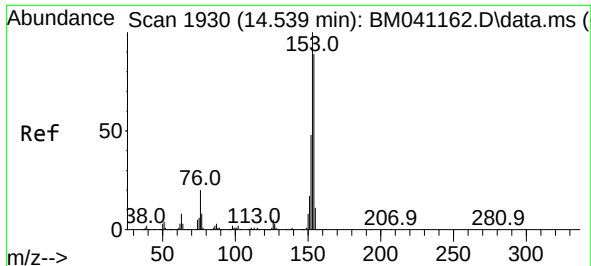
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#49
Acenaphthylene
Concen: 8.833 ng
RT: 14.187 min Scan# 1870
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

Tgt Ion:152 Resp: 290623
Ion Ratio Lower Upper
152 100
151 19.2 16.1 24.1
153 13.2 10.5 15.7





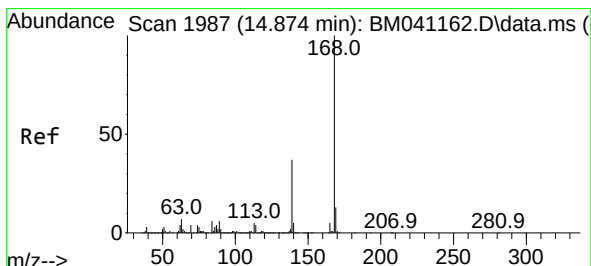
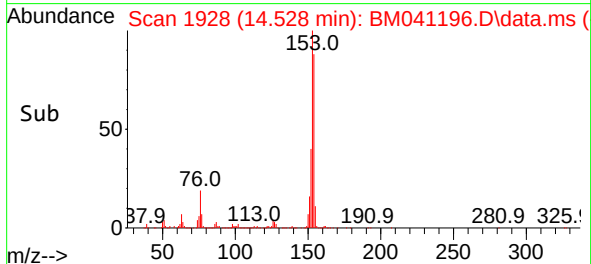
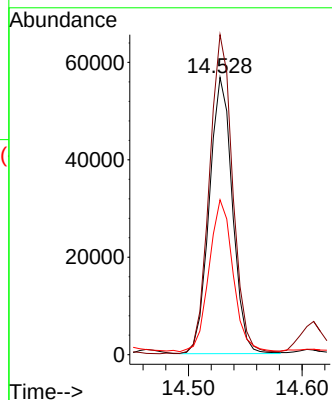
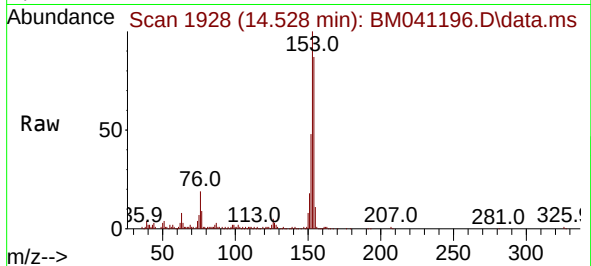
#52
Acenaphthene
Concen: 4.046 ng
RT: 14.528 min Scan# 1930
Delta R.T. -0.006 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

Instrument :
BNA_M
ClientSampleId :
DEL-2-RP

Tgt Ion:154 Resp: 80200
Ion Ratio Lower Upper
154 100
153 115.4 90.2 135.4
152 55.8 43.4 65.0

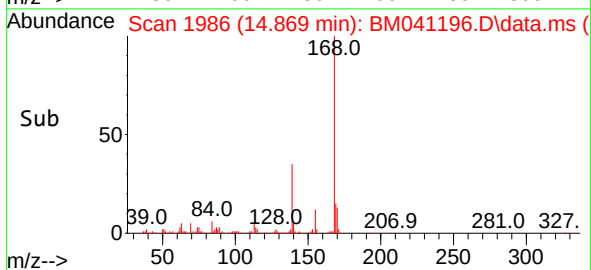
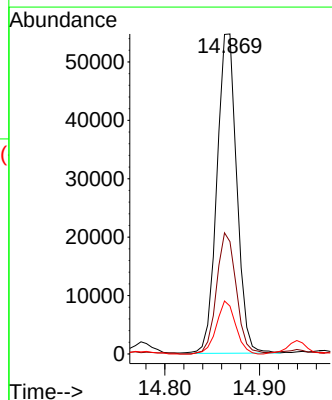
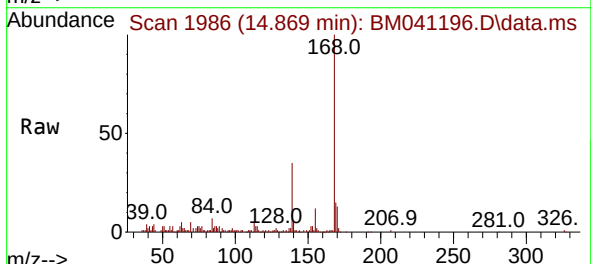
Manual Integrations
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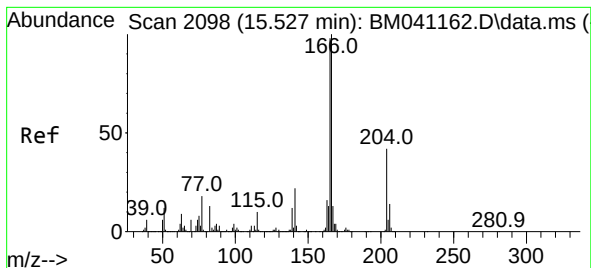
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#55
Dibenzofuran
Concen: 2.468 ng
RT: 14.869 min Scan# 1986
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

Tgt Ion:168 Resp: 79815
Ion Ratio Lower Upper
168 100
139 35.1 29.8 44.6
169 14.9 10.5 15.7





#58

Fluorene

Concen: 4.147 ng

RT: 15.516 min Scan# 2096

Delta R.T. 0.000 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Instrument :

BNA_M

ClientSampleId :

DEL-2-RP

Tgt Ion:166 Resp: 10581

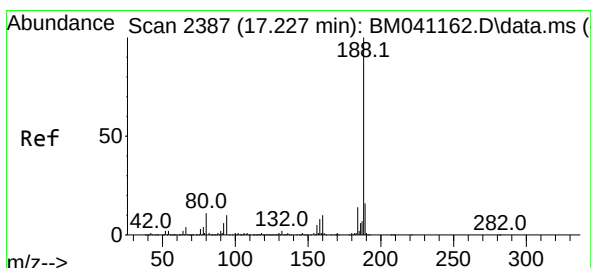
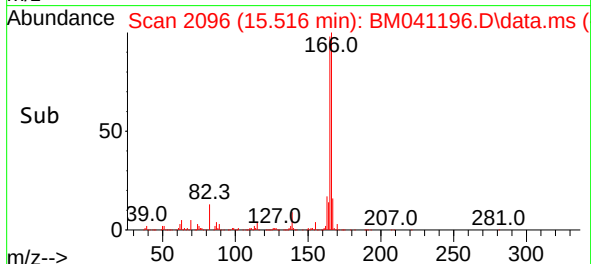
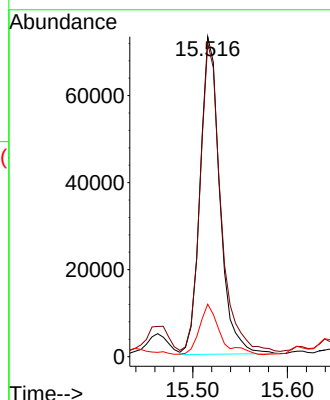
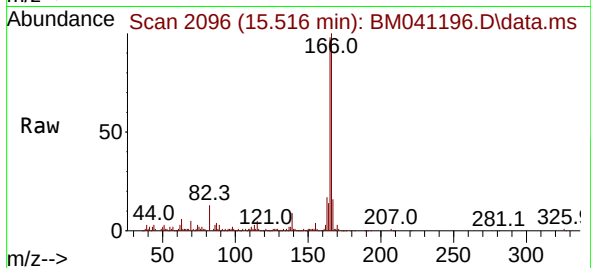
Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.2	117.4
167	16.4	10.6	16.0

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: 17.222 min Scan# 2386

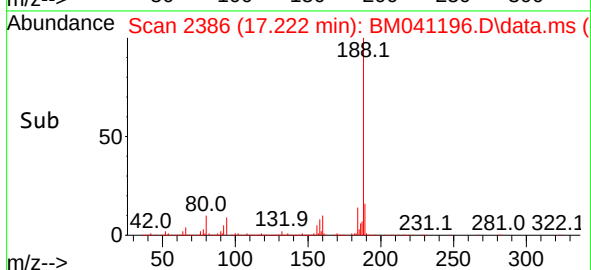
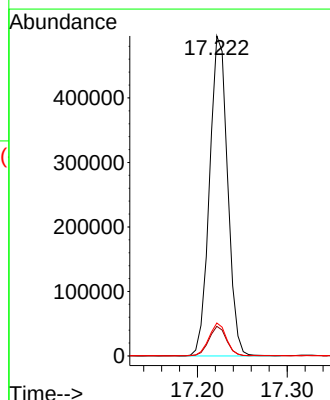
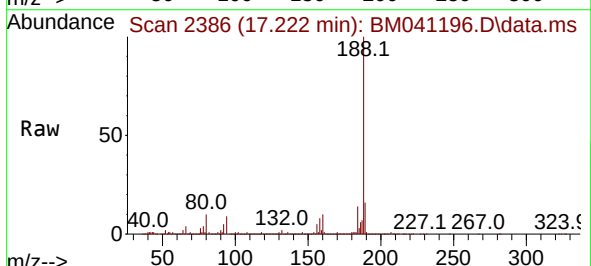
Delta R.T. 0.000 min

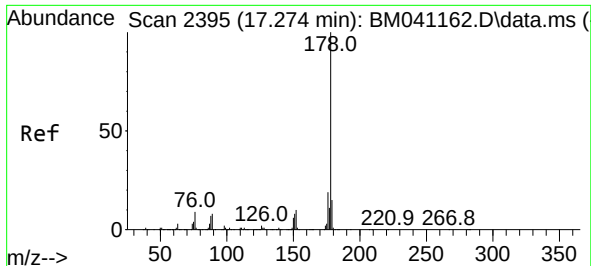
Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Tgt Ion:188 Resp: 693303

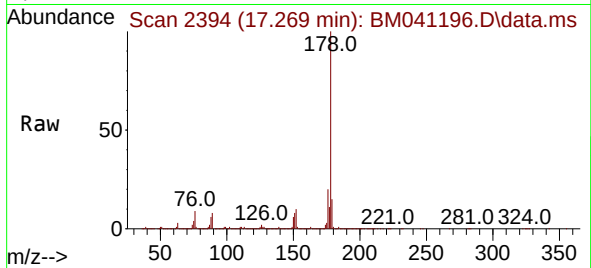
Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.2	12.2
80	10.3	8.6	13.0





#71
Phenanthrene
Concen: 57.829 ng
RT: 17.269 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

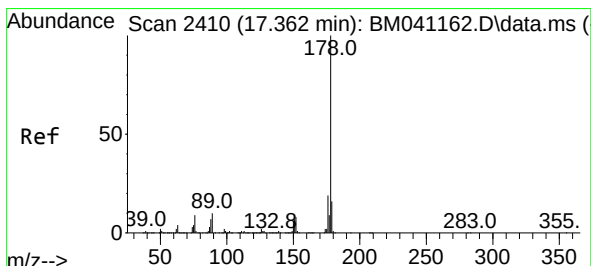
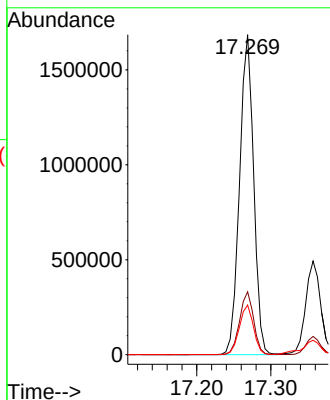
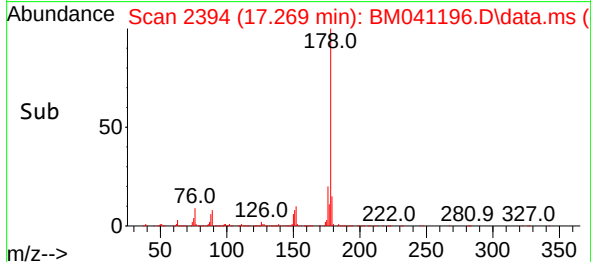
Instrument :
BNA_M
ClientSampleId :
DEL-2-RP



Tgt Ion:178 Resp: 2227600
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.5 12.1 18.1

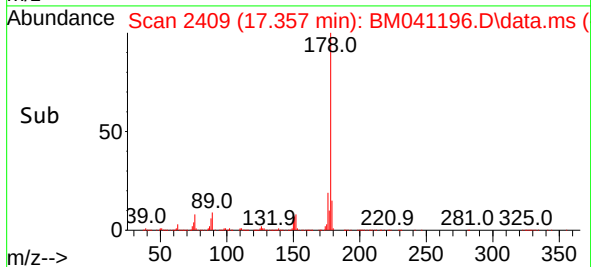
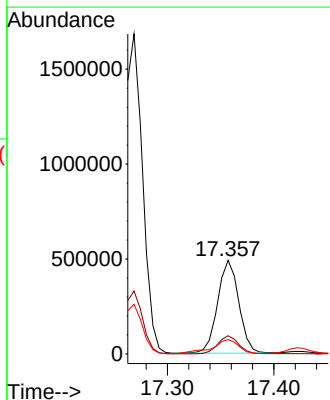
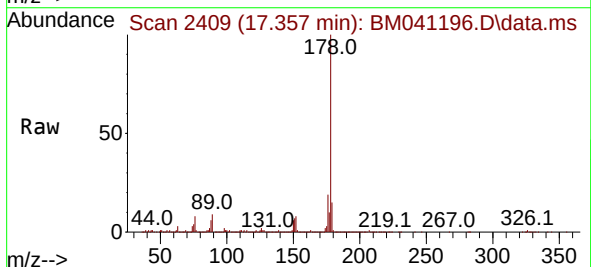
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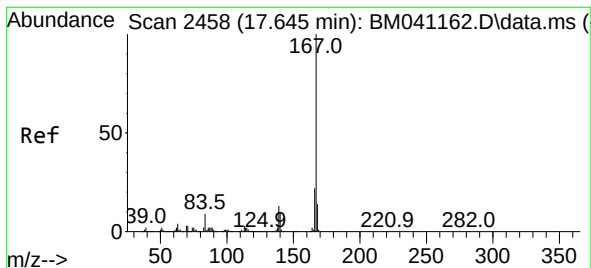
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#72
Anthracene
Concen: 17.822 ng
RT: 17.357 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

Tgt Ion:178 Resp: 678958
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.4 12.4 18.6





#73

Carbazole

Concen: 8.296 ng

RT: 17.639 min Scan# 2458

Delta R.T. 0.000 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Instrument :

BNA_M

ClientSampleId :

DEL-2-RP

Tgt Ion:167 Resp: 286068

Ion Ratio Lower Upper

167 100

166 22.0 17.3 25.9

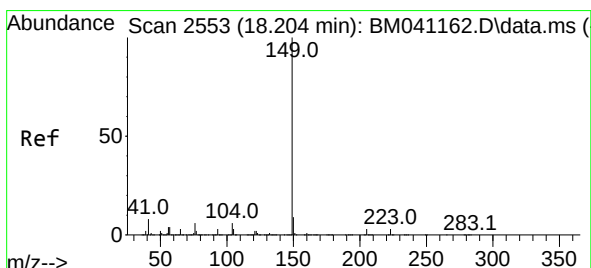
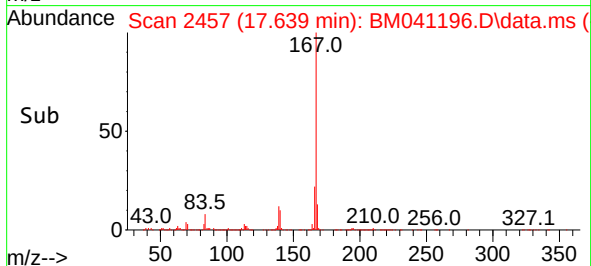
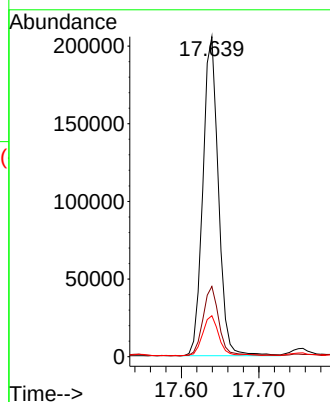
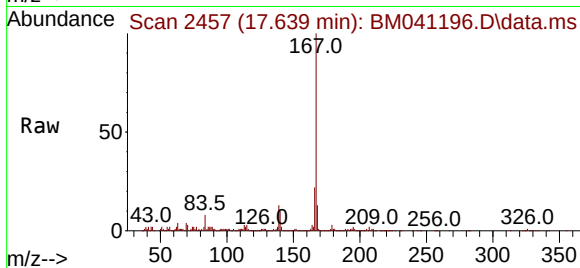
139 12.8 10.3 15.5

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Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#74

Di-n-butylphthalate

Concen: 2.605 ng

RT: 18.198 min Scan# 2552

Delta R.T. 0.000 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

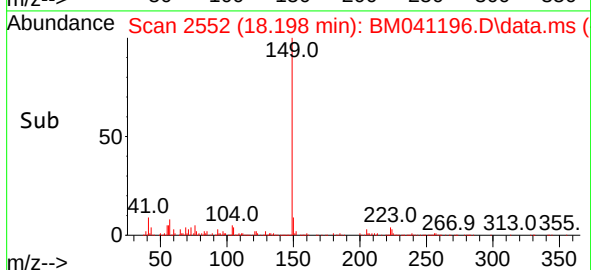
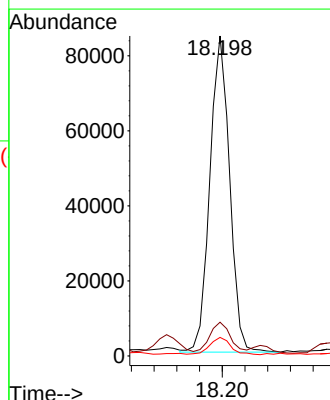
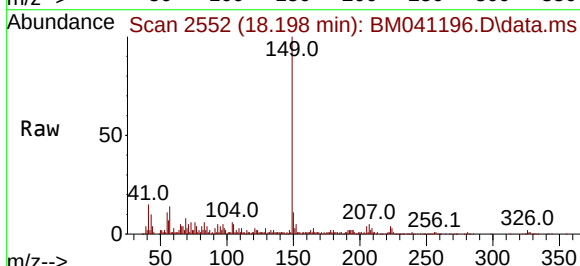
Tgt Ion:149 Resp: 101508

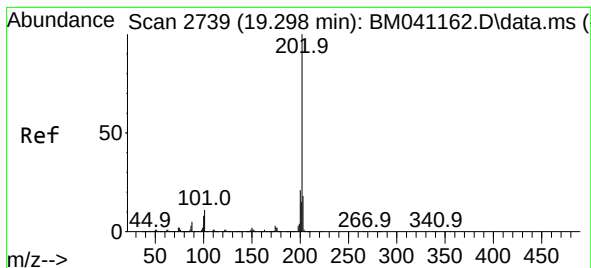
Ion Ratio Lower Upper

149 100

150 10.6 7.3 10.9

104 5.8 4.5 6.7





#75

Fluoranthene

Concen: 118.594 ng

RT: 19.298 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Instrument :

BNA_M

ClientSampleId :

DEL-2-RP

Tgt Ion:202 Resp: 5132349

Ion Ratio Lower Upper

202 100

101 9.6 0.0 30.8

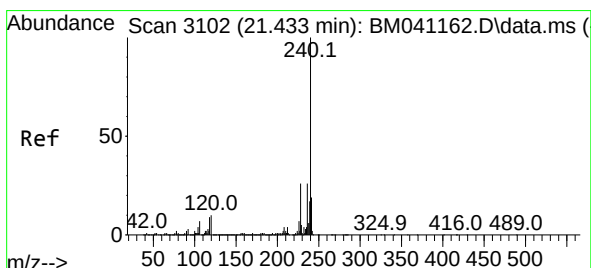
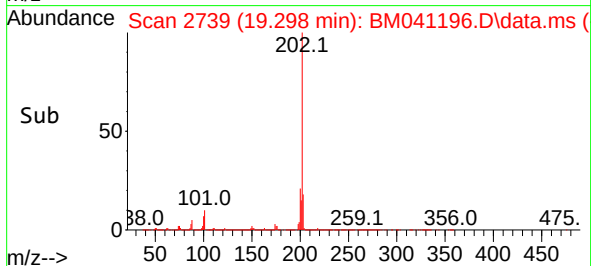
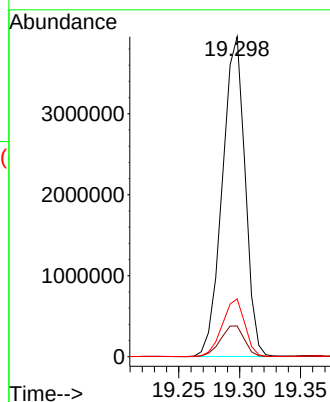
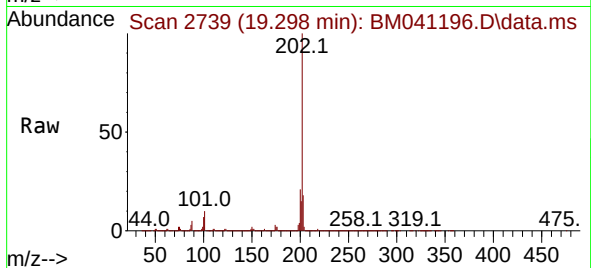
203 18.0 0.0 37.6

Manual Integrations

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Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.427 min Scan# 3101

Delta R.T. 0.000 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

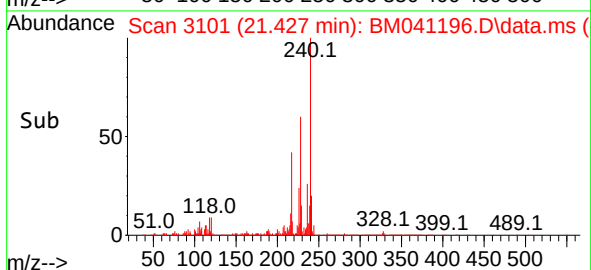
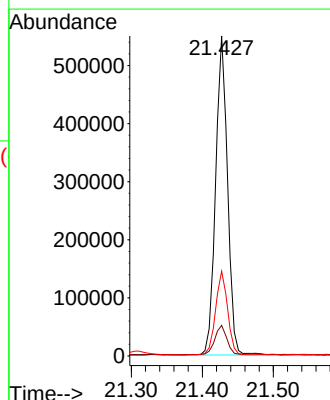
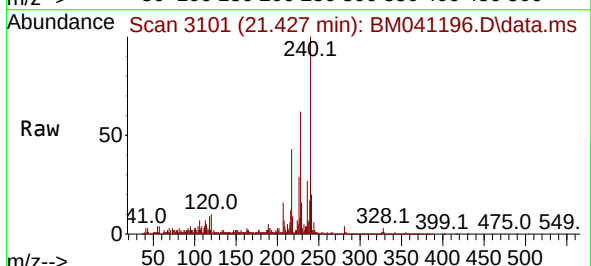
Tgt Ion:240 Resp: 638321

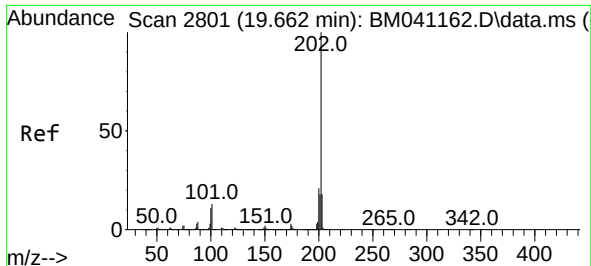
Ion Ratio Lower Upper

240 100

120 9.5 8.3 12.5

236 26.5 20.6 30.8





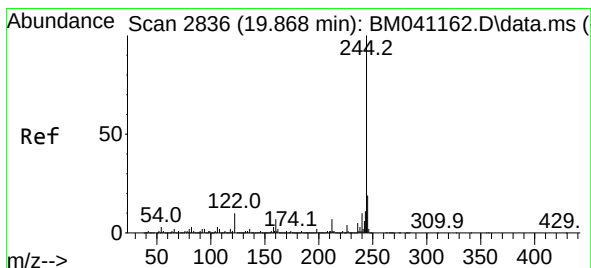
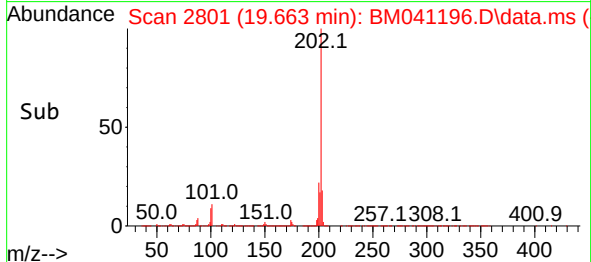
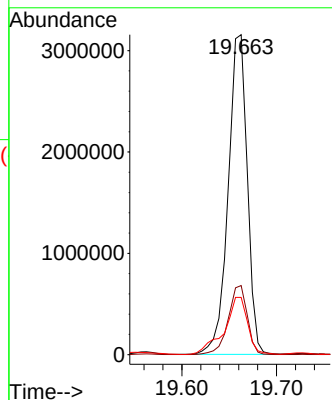
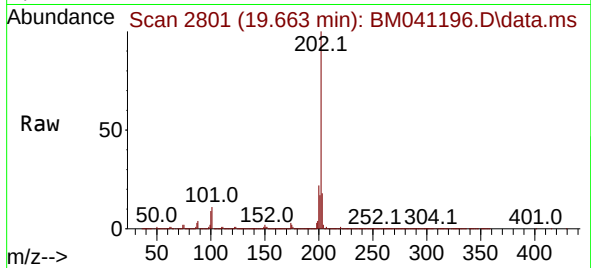
#78
 Pyrene
 Concen: 99.218 ng
 RT: 19.663 min Scan# 2801
 Delta R.T. 0.006 min
 Lab File: BM041196.D
 Acq: 31 Jul 2023 19:18

Instrument :
 BNA_M
 ClientSampleId :
 DEL-2-RP

Tgt Ion:202 Resp: 4428964
 Ion Ratio Lower Upper
 202 100
 200 21.6 16.9 25.3
 203 17.9 14.1 21.1

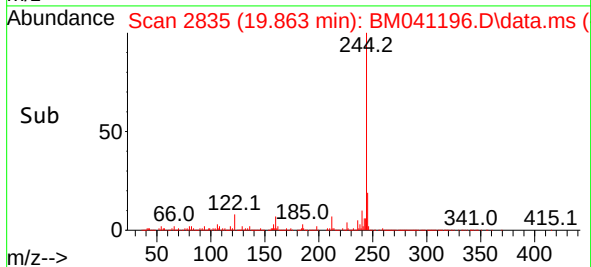
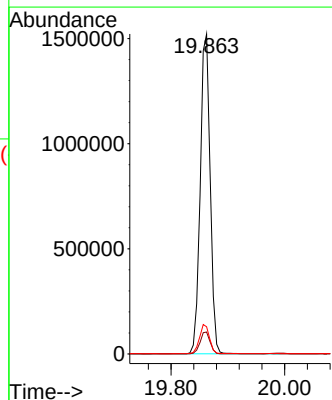
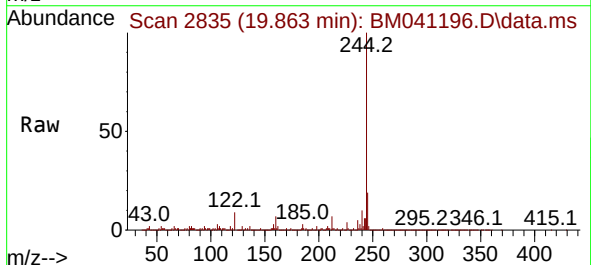
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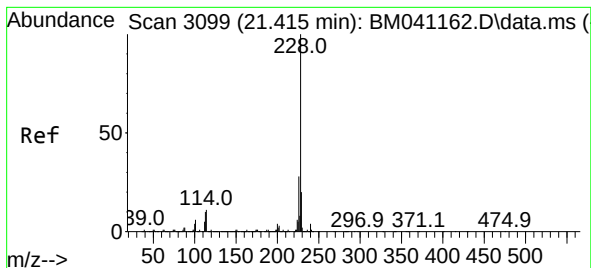
Reviewed By :Yogesh Patel 08/01/2023
 Supervised By :mohammad ahmed 08/01/2023



#79
 Terphenyl-d14
 Concen: 52.335 ng
 RT: 19.863 min Scan# 2835
 Delta R.T. 0.000 min
 Lab File: BM041196.D
 Acq: 31 Jul 2023 19:18

Tgt Ion:244 Resp: 1847647
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 8.5 7.8 11.6





#81

Benzo(a)anthracene

Concen: 58.366 ng

RT: 21.410 min Scan# 3099

Delta R.T. 0.000 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Instrument :

BNA_M

ClientSampleId :

DEL-2-RP

Tgt Ion:228 Resp: 252568

Ion Ratio Lower Upper

228 100

226 28.5 22.4 33.6

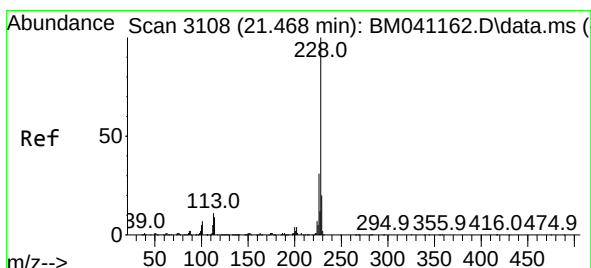
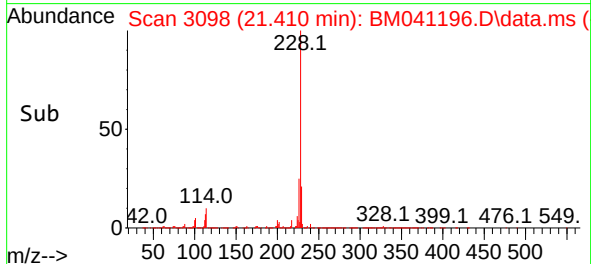
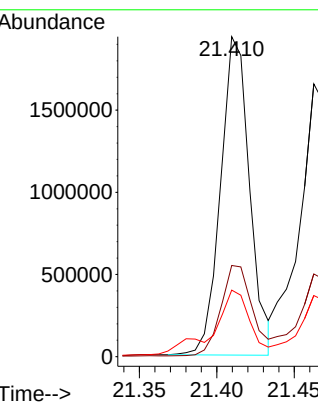
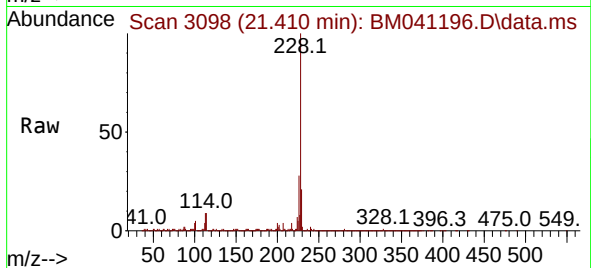
229 20.8 15.8 23.8

Manual Integrations

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Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#83

Chrysene

Concen: 55.373 ng

RT: 21.463 min Scan# 3107

Delta R.T. 0.000 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

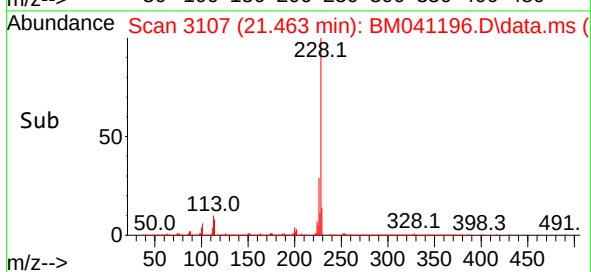
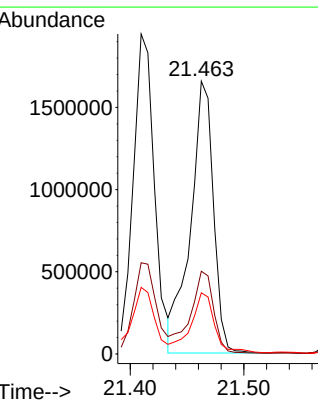
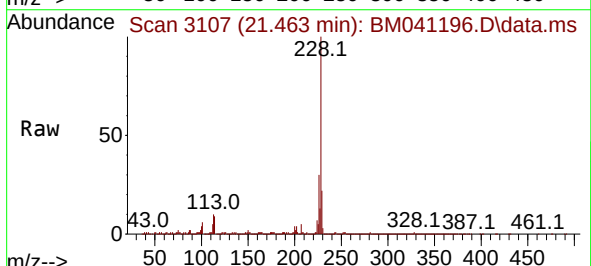
Tgt Ion:228 Resp: 2317672

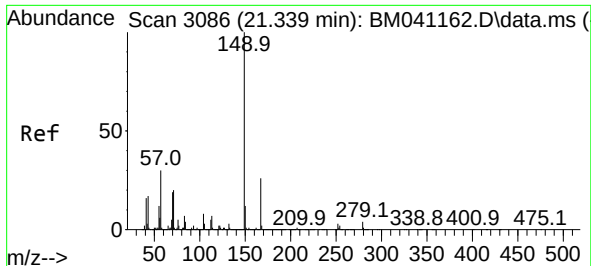
Ion Ratio Lower Upper

228 100

226 30.3 24.5 36.7

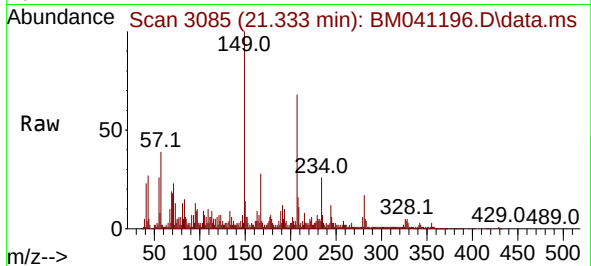
229 22.4 15.8 23.8





#84
Bis(2-ethylhexyl)phthalate
Concen: 6.803 ng
RT: 21.333 min Scan# 3085
Delta R.T. -0.006 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

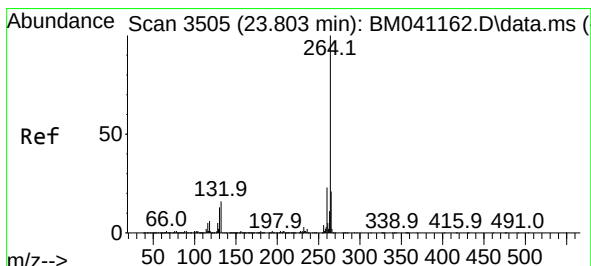
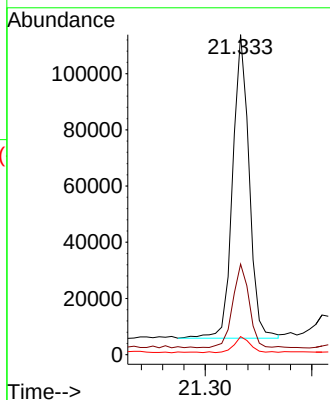
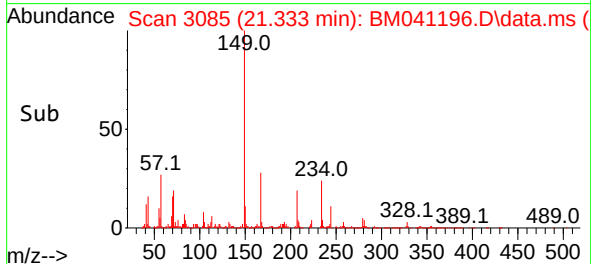
Instrument :
BNA_M
ClientSampleId :
DEL-2-RP



Tgt Ion:149 Resp: 11655
Ion Ratio Lower Upper
149 100
167 28.3 21.0 31.6
279 5.7 3.1 4.7

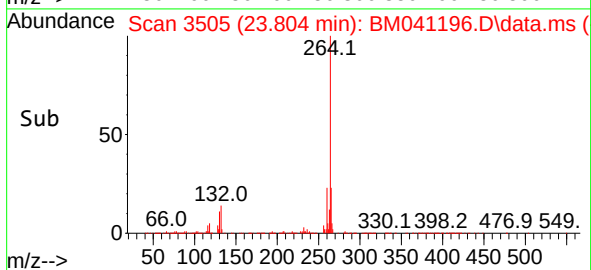
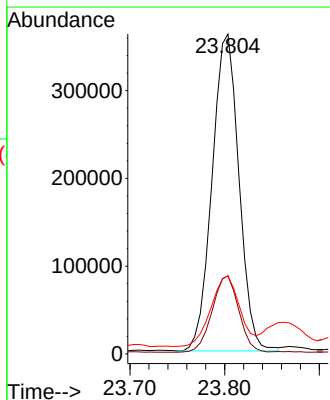
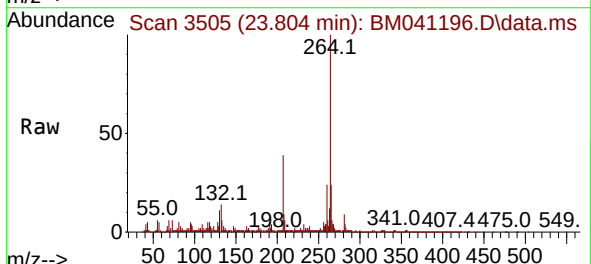
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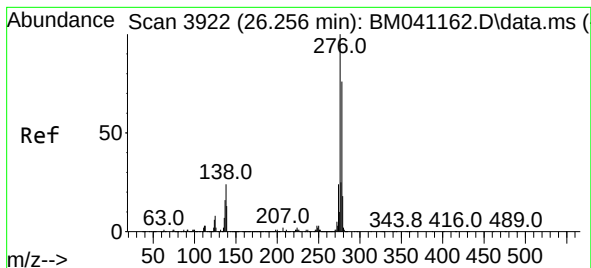
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.804 min Scan# 3505
Delta R.T. 0.006 min
Lab File: BM041196.D
Acq: 31 Jul 2023 19:18

Tgt Ion:264 Resp: 711385
Ion Ratio Lower Upper
264 100
260 24.4 18.5 27.7
265 24.4 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 29.369 ng

RT: 26.250 min Scan# 3921

Delta R.T. 0.006 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Instrument :

BNA_M

ClientSampleId :

DEL-2-RP

Tgt Ion:276 Resp: 1536079

Ion Ratio Lower Upper

276 100

138 18.6 20.0 30.0

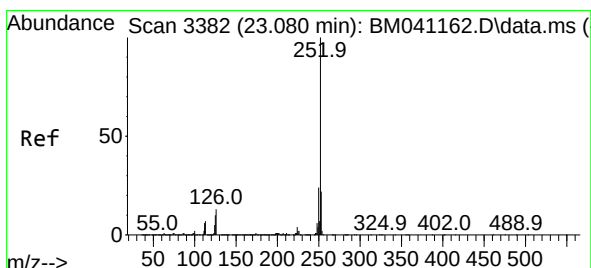
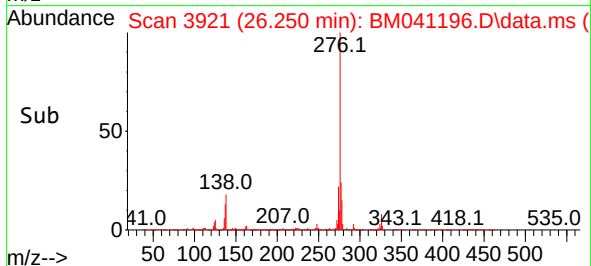
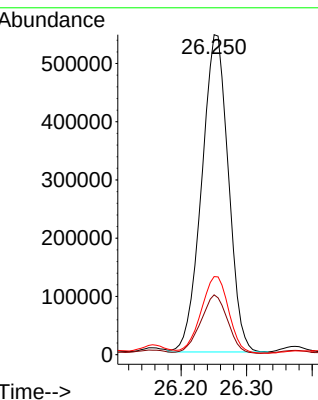
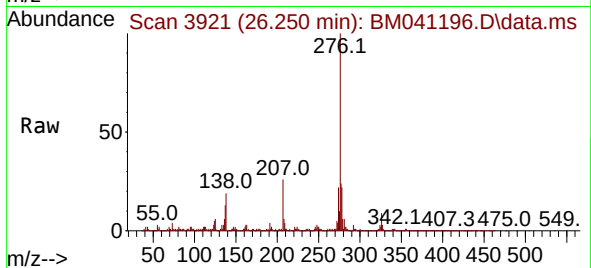
277 25.1 20.1 30.1

Manual Integrations

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Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#88

Benzo(b)fluoranthene

Concen: 78.645 ng

RT: 23.086 min Scan# 3383

Delta R.T. 0.012 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

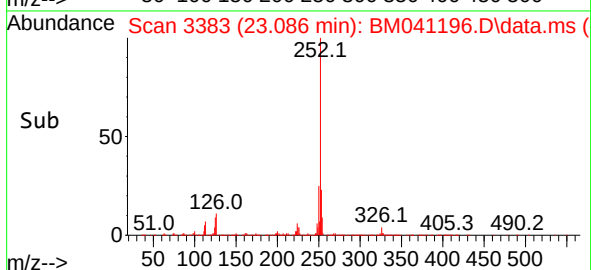
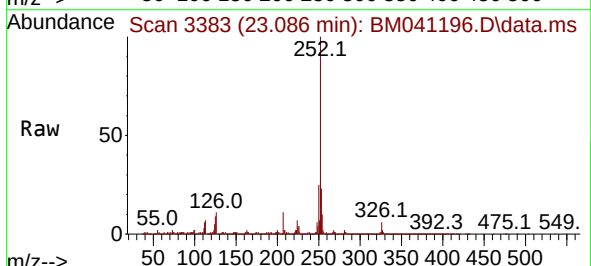
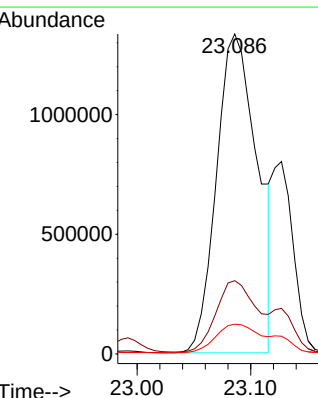
Tgt Ion:252 Resp: 3323571

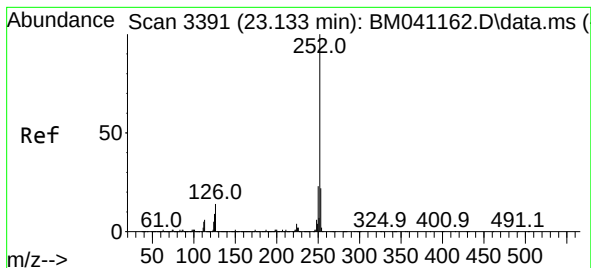
Ion Ratio Lower Upper

252 100

253 22.9 17.7 26.5

125 9.3 8.2 12.4





#89

Benzo(k)fluoranthene

Concen: 23.621 ng m

RT: 23.127 min Scan# 31

Delta R.T. 0.006 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Instrument :

BNA_M

ClientSampleId :

DEL-2-RP

Tgt Ion:252 Resp: 102110

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

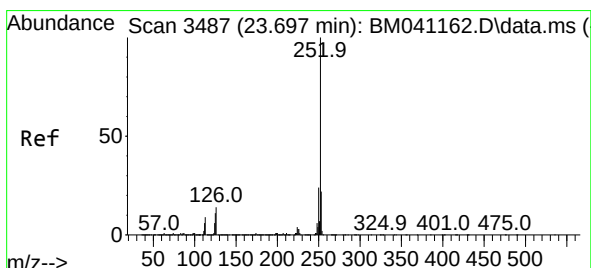
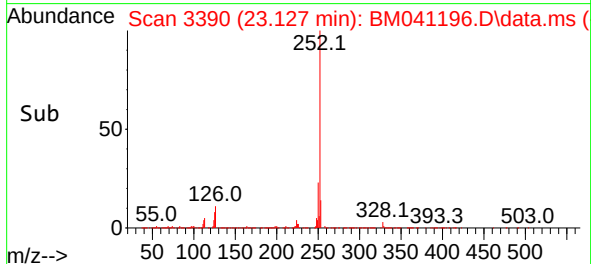
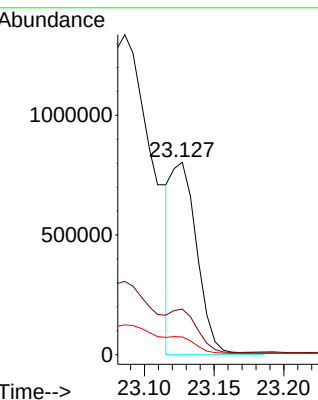
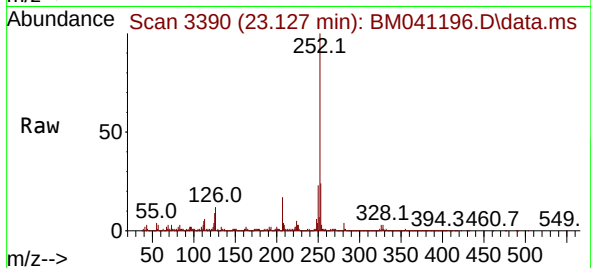
125 9.3 7.6 11.4

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: 54.720 ng

RT: 23.698 min Scan# 3487

Delta R.T. 0.006 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

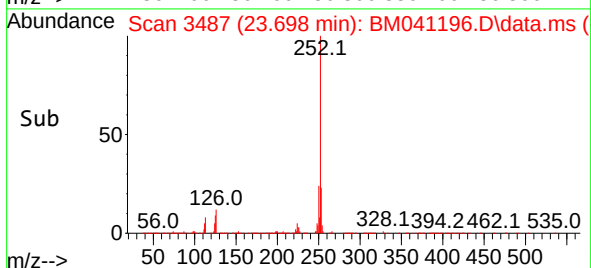
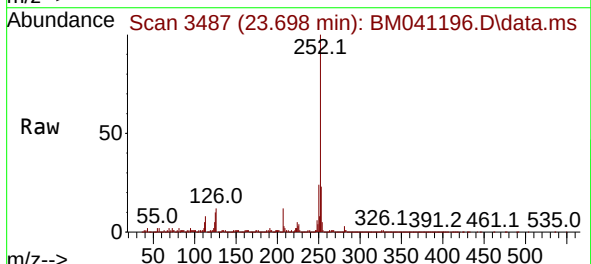
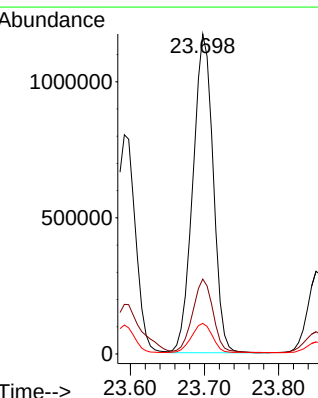
Tgt Ion:252 Resp: 2221993

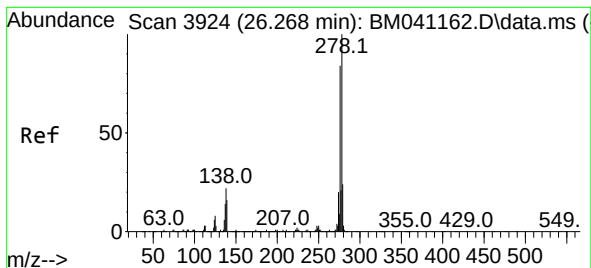
Ion Ratio Lower Upper

252 100

253 23.4 17.3 25.9

125 9.6 9.0 13.4





#91

Dibenzo(a,h)anthracene

Concen: 9.554 ng

RT: 26.256 min Scan# 3924

Delta R.T. 0.000 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Instrument :

BNA_M

ClientSampleId :

DEL-2-RP

Tgt Ion:278 Resp: 416780

Ion Ratio Lower Upper

278 100

139 0.0 12.7 19.1

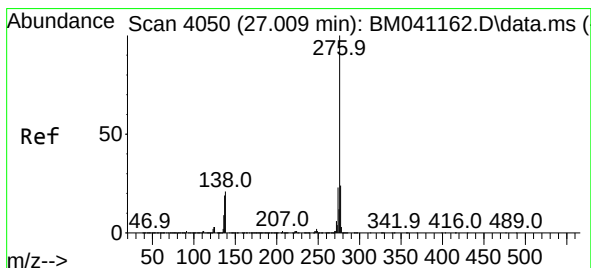
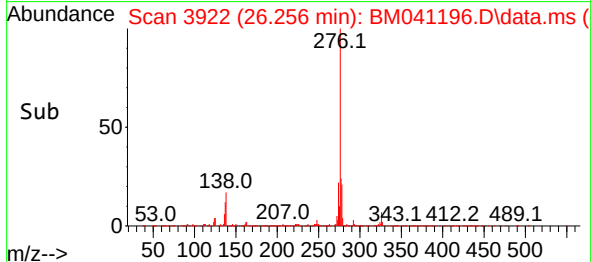
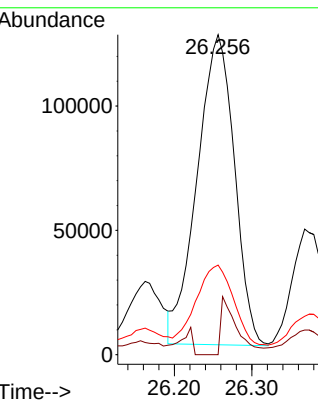
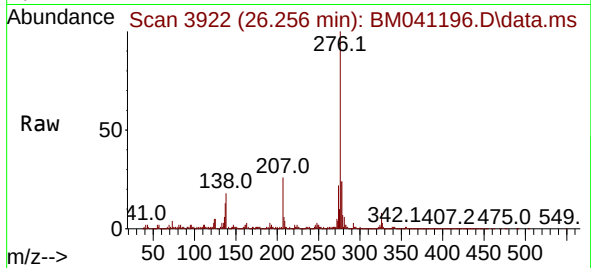
279 28.0 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#92

Benzo(g,h,i)perylene

Concen: 33.702 ng

RT: 27.015 min Scan# 4051

Delta R.T. 0.018 min

Lab File: BM041196.D

Acq: 31 Jul 2023 19:18

Tgt Ion:276 Resp: 1438613

Ion Ratio Lower Upper

276 100

277 24.3 19.1 28.7

138 18.5 17.1 25.7

