

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
 Data File : BM042582.D
 Acq On : 03 Nov 2023 22:12
 Operator : MA/JU
 Sample : 04938-09DL2 400X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-5(0-2)DL2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2023
 Supervised By :mohammad ahmed 11/04/2023

Quant Time: Nov 03 23:26:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 03 15:52:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.916	152	49181	20.000	ng	0.00
21) Naphthalene-d8	10.733	136	180709	20.000	ng	0.00
39) Acenaphthene-d10	14.568	164	110408	20.000	ng	0.00
64) Phenanthrene-d10	17.321	188	236014	20.000	ng	0.00
76) Chrysene-d12	21.503	240	242343	20.000	ng	# 0.00
86) Perylene-d12	23.921	264	272514	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	366	0.120	ng	0.02
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng	
45) 2-Fluorobiphenyl	13.186	172	683	0.083	ng	0.00
79) Terphenyl-d14	19.927	244	1794	0.126	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.362	178	294629	23.888	ng	99
72) Anthracene	17.456	178	56359	4.613	ng	99
73) Carbazole	17.745	167	34014	3.422	ng	98
75) Fluoranthene	19.380	202	605035	41.760	ng	98
78) Pyrene	19.745	202	513649	30.867	ng	99
81) Benzo(a)anthracene	21.486	228	252933	16.404	ng	98
83) Chrysene	21.539	228	233746	14.924	ng	97
87) Indeno(1,2,3-cd)pyrene	26.450	276	158168	9.752	ng	# 90
88) Benzo(b)fluoranthene	23.174	252	331168	21.813	ng	99
89) Benzo(k)fluoranthene	23.221	252	106554m	6.298	ng	
90) Benzo(a)pyrene	23.809	252	217443	14.547	ng	95
91) Dibenzo(a,h)anthracene	26.456	278	33358	6.174	ng	# 88
92) Benzo(g,h,i)perylene	27.244	276	156583	10.954	ng	95

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

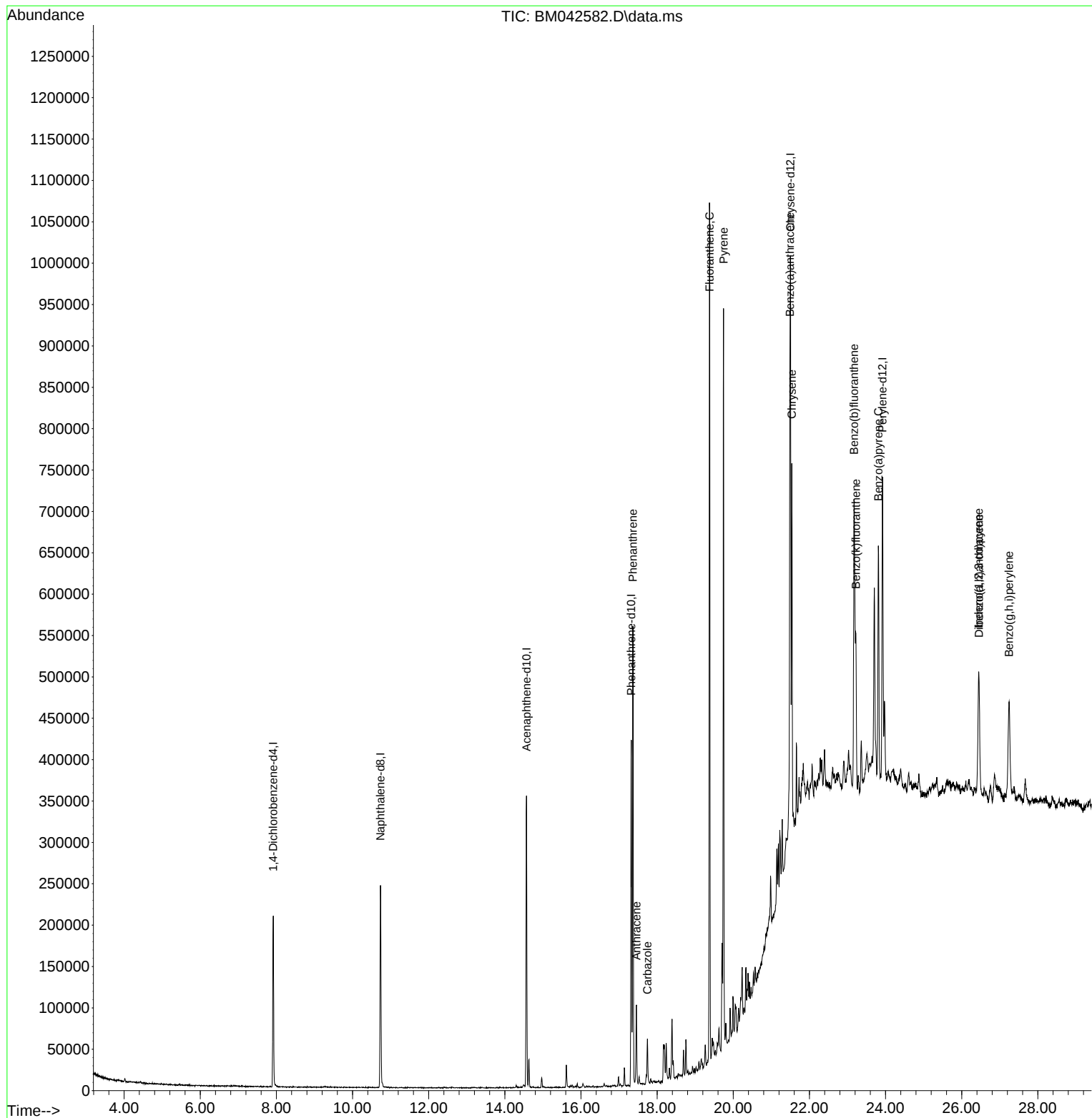
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Data File : BM042582.D
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Quant Time: Nov 03 23:26:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 03 15:52:20 2023
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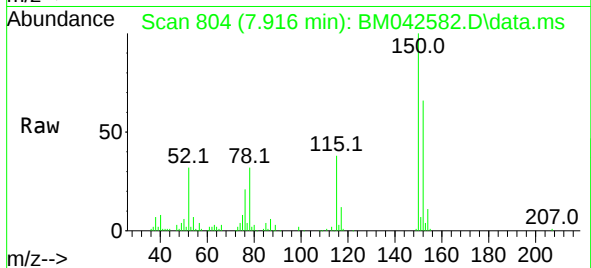
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.916 min Scan# 806
Delta R.T. 0.006 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12

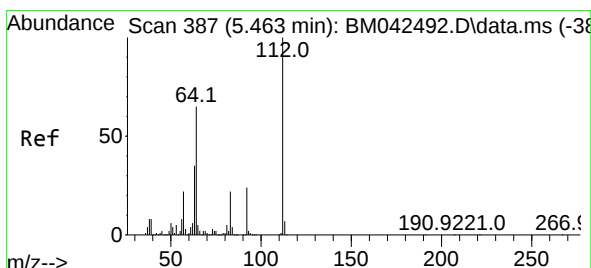
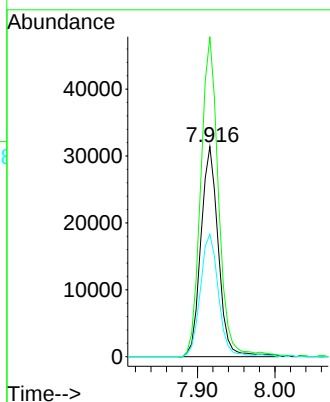
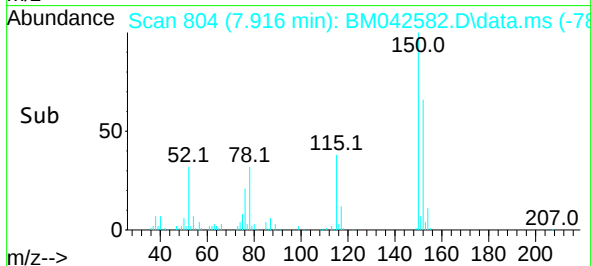
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)DL2



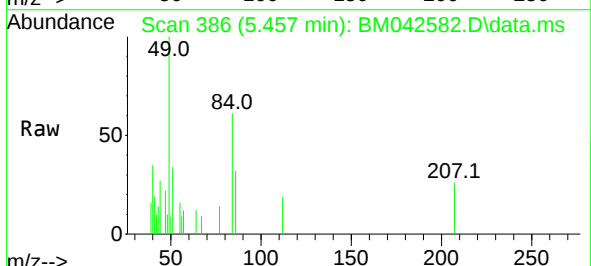
Tgt Ion:152 Resp: 4918
Ion Ratio Lower Upper
152 100
150 152.3 127.4 191.0
115 58.3 47.9 71.9

Manual Integrations
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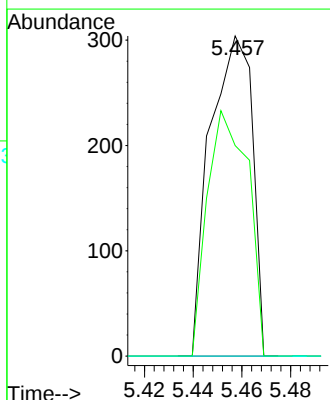
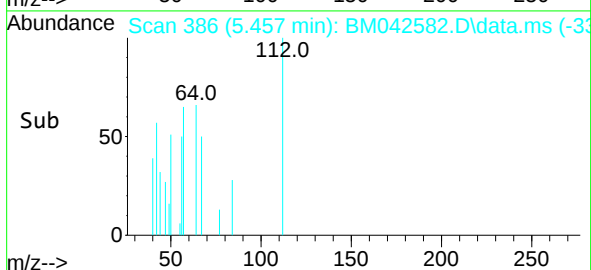
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023

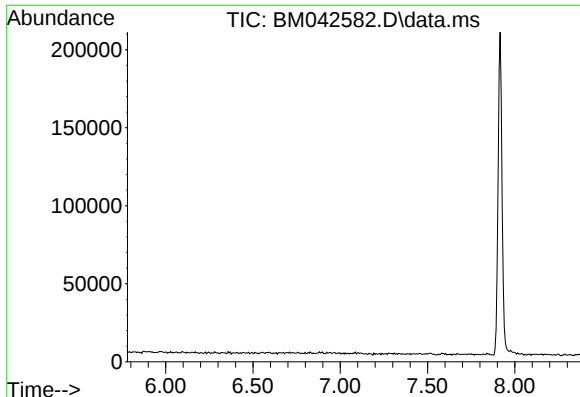


#5
2-Fluorophenol
Concen: 0.120 ng
RT: 5.457 min Scan# 386
Delta R.T. 0.017 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12



Tgt Ion:112 Resp: 366
Ion Ratio Lower Upper
112 100
64 65.8 52.1 78.1
63 0.0 28.3 42.5#





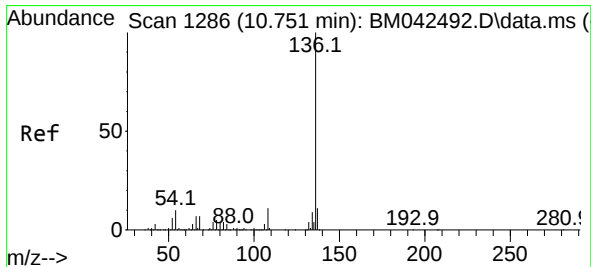
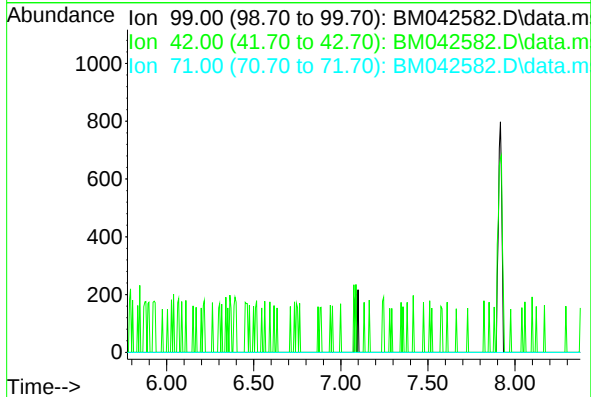
#7
 Phenol-d6
 Concen: 0.000 ng
 Expected RT: 7.08 min
 Lab File: BM042582.D
 Acq: 03 Nov 2023 22:12

Instrument :
 BNA_M
 ClientSampleId :
 A-5(0-2)DL2

Tgt Ion: 99
 Sig Exp Ratio
 99 100
 42 23.4
 71 36.4

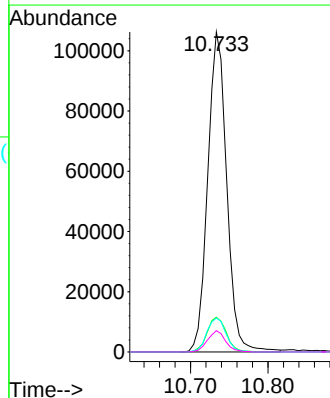
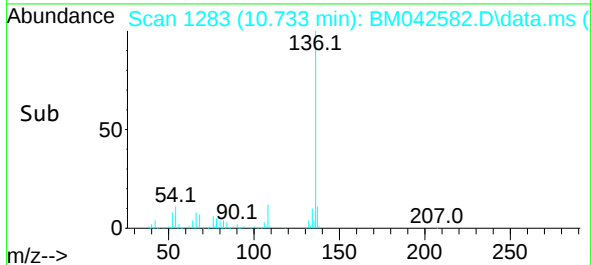
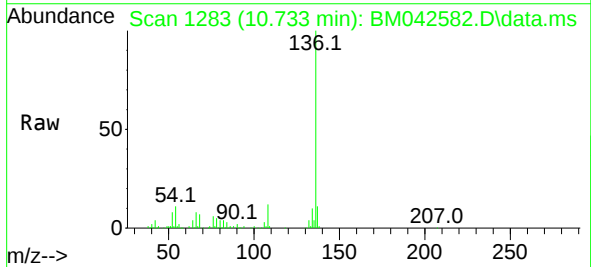
Manual Integrations APPROVED

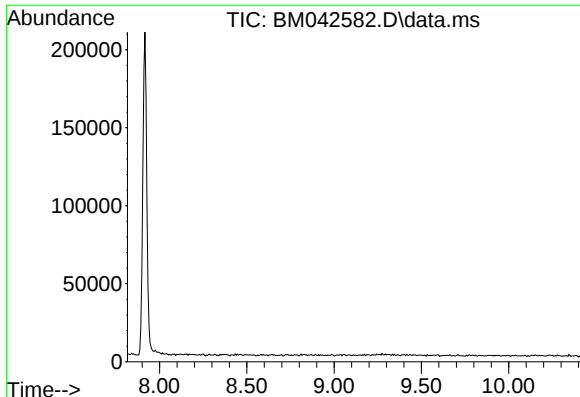
Reviewed By :Yogesh Patel 11/04/2023
 Supervised By :mohammad ahmed 11/04/2023



#21
 Naphthalene-d8
 Concen: 20.000 ng
 RT: 10.733 min Scan# 1283
 Delta R.T. 0.005 min
 Lab File: BM042582.D
 Acq: 03 Nov 2023 22:12

Tgt Ion:136 Resp: 180709
 Ion Ratio Lower Upper
 136 100
 137 10.9 9.0 13.6
 54 10.6 8.0 12.0
 68 6.6 5.7 8.5





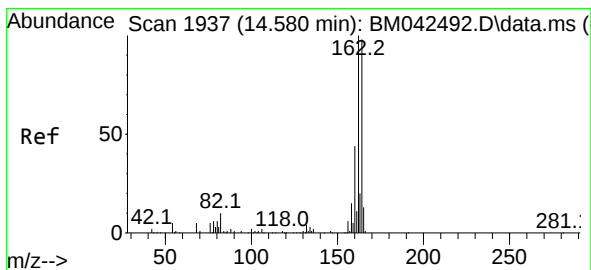
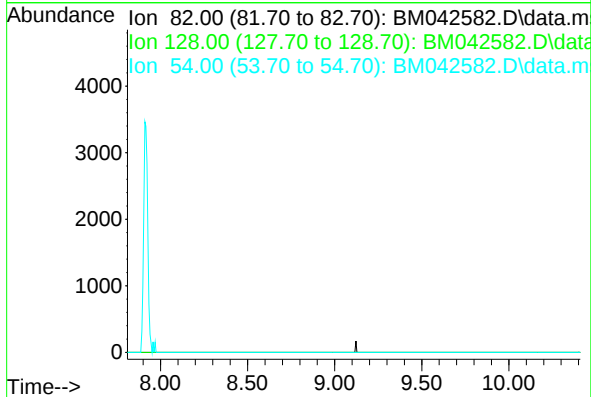
#23
 Nitrobenzene-d5
 Concen: 0.000 ng
 Expected RT: 9.11 min
 Lab File: BM042582.D
 Acq: 03 Nov 2023 22:12

Instrument :
 BNA_M
 ClientSampleId :
 A-5(0-2)DL2

Tgt Ion: 82
 Sig Exp Ratio
 82 100
 128 38.4
 54 56.6

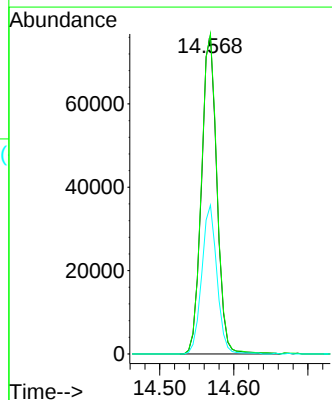
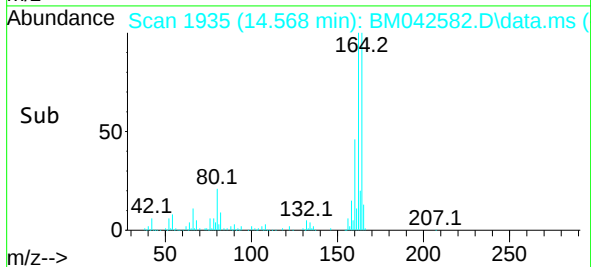
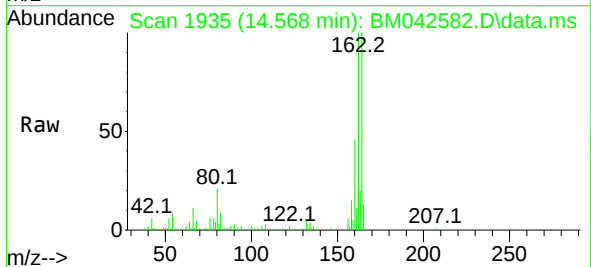
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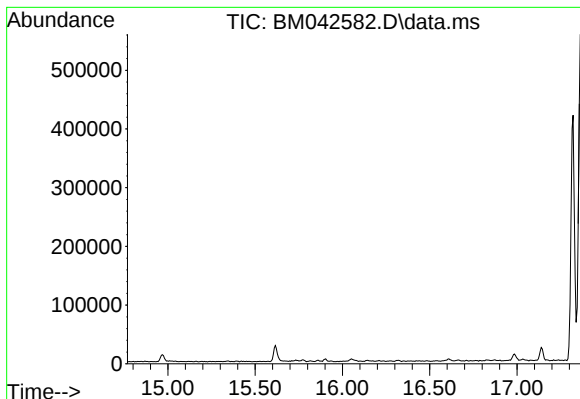
Reviewed By :Yogesh Patel 11/04/2023
 Supervised By :mohammad ahmed 11/04/2023



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.568 min Scan# 1935
 Delta R.T. 0.005 min
 Lab File: BM042582.D
 Acq: 03 Nov 2023 22:12

Tgt Ion:164 Resp: 110408
 Ion Ratio Lower Upper
 164 100
 162 100.3 81.6 122.4
 160 46.6 36.2 54.4





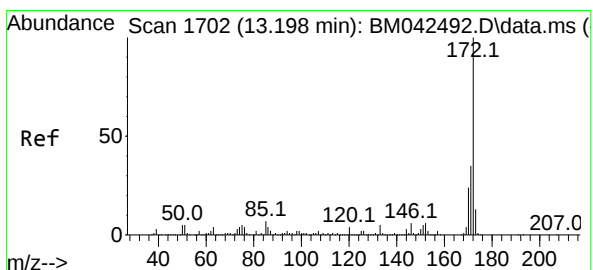
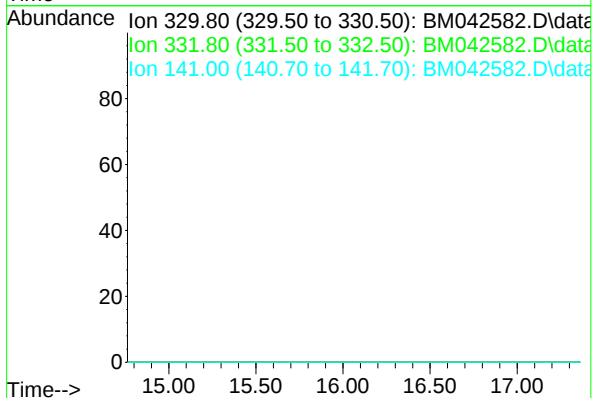
#42
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 16.06 min
 Lab File: BM042582.D
 Acq: 03 Nov 2023 22:12

Instrument :
 BNA_M
 ClientSampleId :
 A-5(0-2)DL2

Tgt Ion: 330
 Sig Exp Ratio
 330 100
 332 98.5
 141 38.9

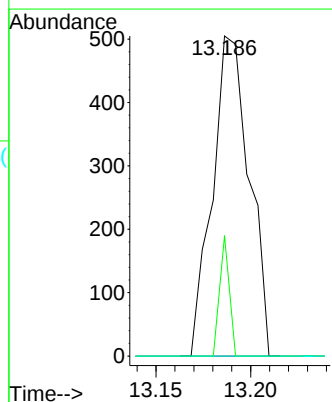
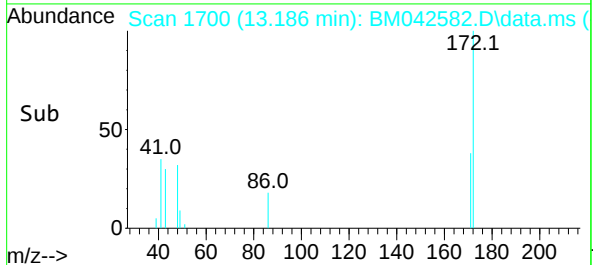
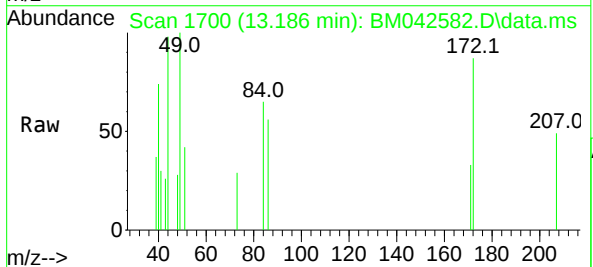
Manual Integrations APPROVED

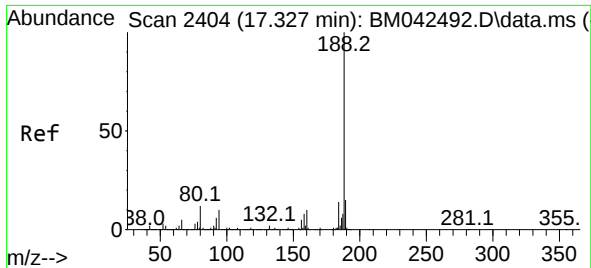
Reviewed By :Yogesh Patel 11/04/2023
 Supervised By :mohammad ahmed 11/04/2023



#45
 2-Fluorobiphenyl
 Concen: 0.083 ng
 RT: 13.186 min Scan# 1700
 Delta R.T. -0.000 min
 Lab File: BM042582.D
 Acq: 03 Nov 2023 22:12

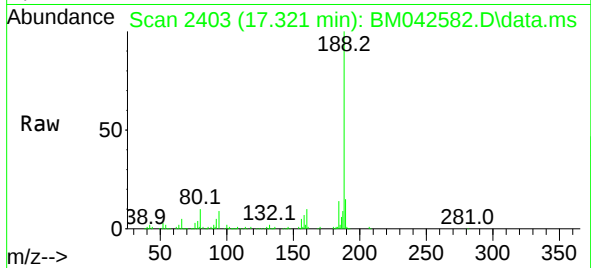
Tgt Ion:172 Resp: 683
 Ion Ratio Lower Upper
 172 100
 171 37.6 28.2 42.2
 170 0.0 19.0 28.4#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.321 min Scan# 2403
Delta R.T. 0.005 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12

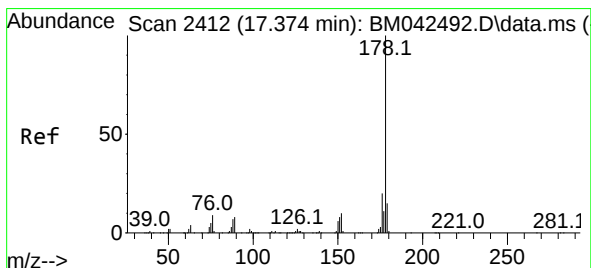
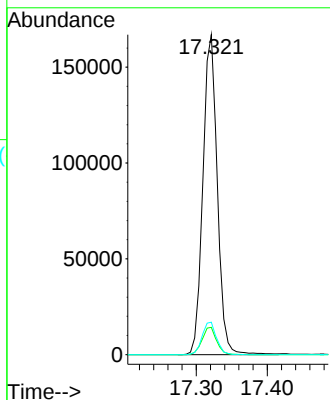
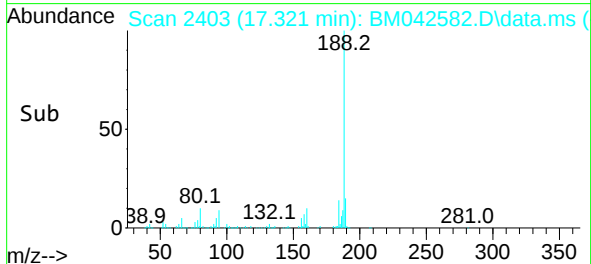
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)DL2



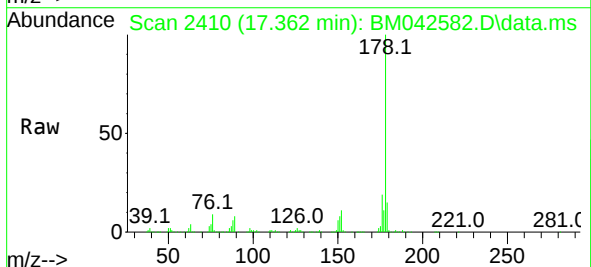
Tgt Ion:188 Resp: 236014
Ion Ratio Lower Upper
188 100
94 8.6 8.2 12.4
80 10.2 9.4 14.2

Manual Integrations
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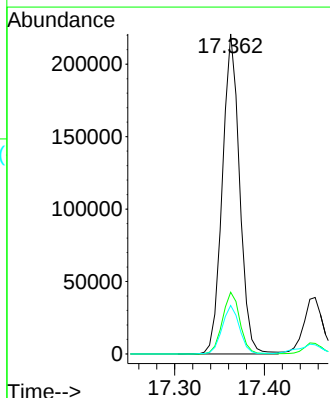
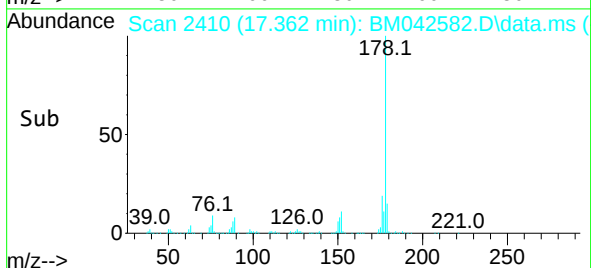
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023

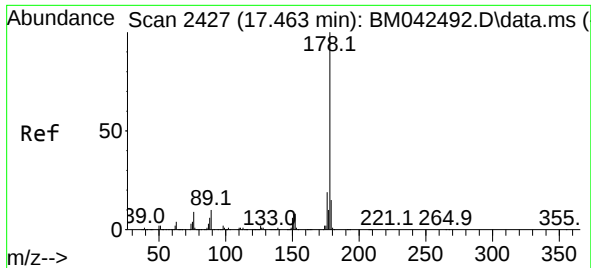


#71
Phenanthrene
Concen: 23.888 ng
RT: 17.362 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12



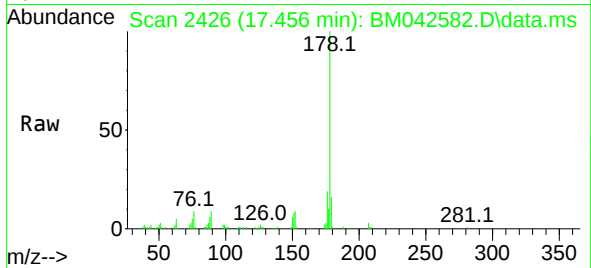
Tgt Ion:178 Resp: 294629
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.2 12.2 18.4





#72
 Anthracene
 Concen: 4.613 ng
 RT: 17.456 min Scan# 2427
 Delta R.T. 0.005 min
 Lab File: BM042582.D
 Acq: 03 Nov 2023 22:12

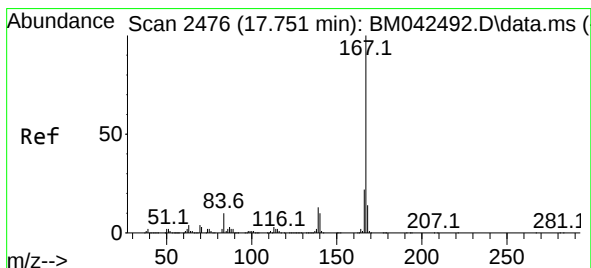
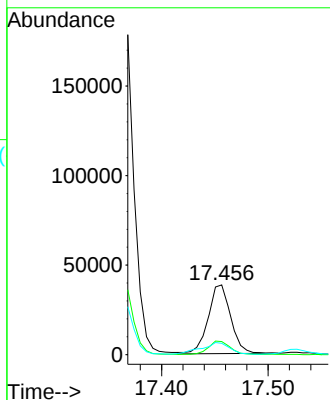
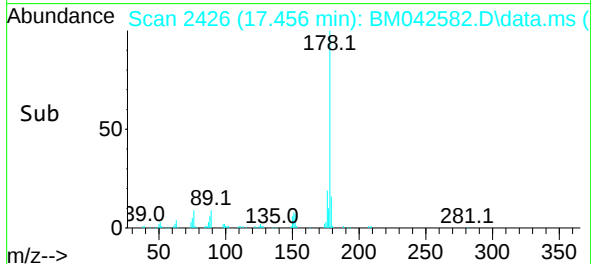
Instrument :
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 A-5(0-2)DL2



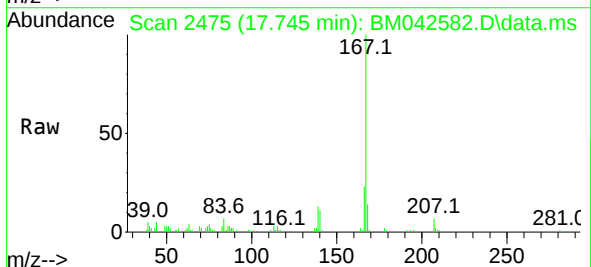
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 Ion Ratio Lower Upper
 178 100
 176 18.8 15.2 22.8
 179 16.2 12.3 18.5

Manual Integrations
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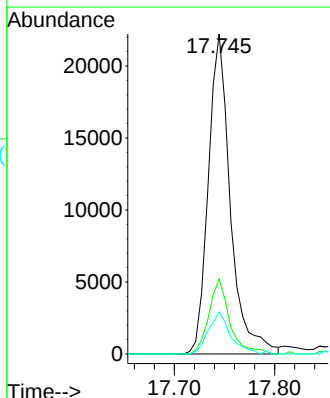
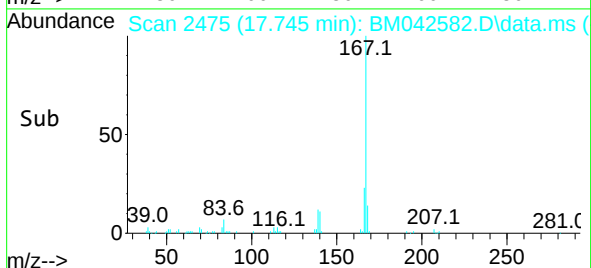
Reviewed By :Yogesh Patel 11/04/2023
 Supervised By :mohammad ahmed 11/04/2023

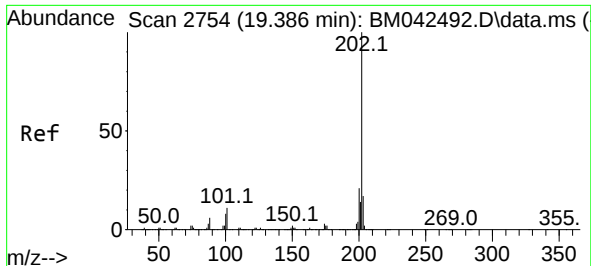


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 Carbazole
 Concen: 3.422 ng
 RT: 17.745 min Scan# 2475
 Delta R.T. 0.005 min
 Lab File: BM042582.D
 Acq: 03 Nov 2023 22:12



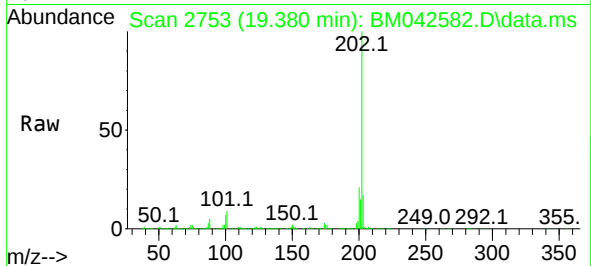
Tgt Ion:167 Resp: 34014
 Ion Ratio Lower Upper
 167 100
 166 23.4 17.4 26.2
 139 13.1 10.5 15.7





#75
Fluoranthene
Concen: 41.760 ng
RT: 19.380 min Scan# 21
Delta R.T. 0.005 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12

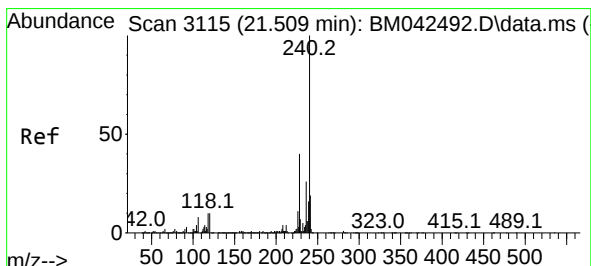
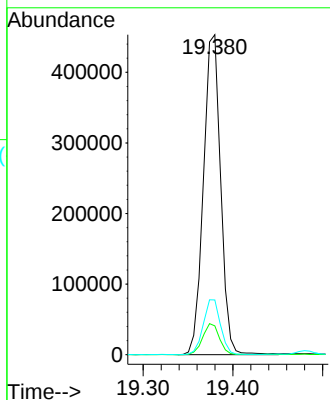
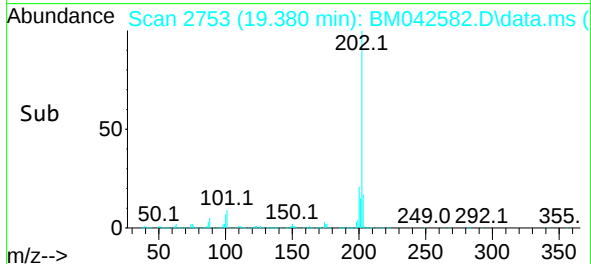
Instrument :
BNA_M
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A-5(0-2)DL2



Tgt Ion:202 Resp: 605035
Ion Ratio Lower Upper
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101 9.0 0.0 30.5
203 17.1 0.0 37.0

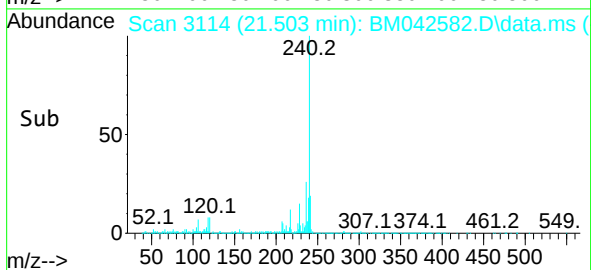
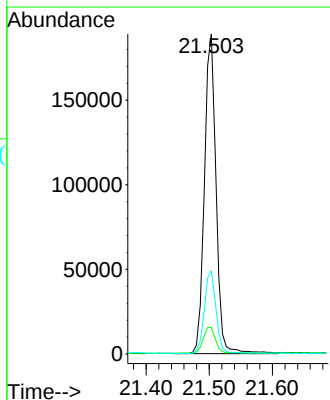
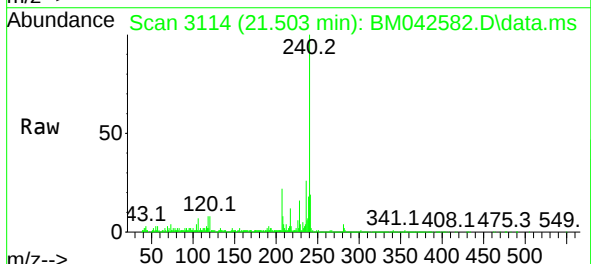
Manual Integrations
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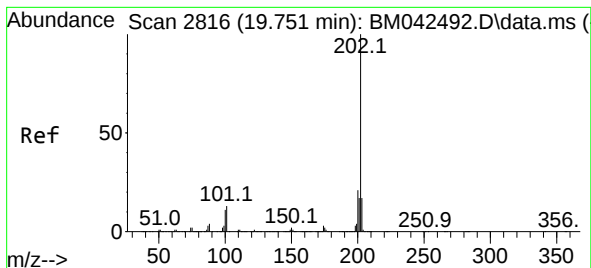
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.503 min Scan# 3114
Delta R.T. -0.000 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12

Tgt Ion:240 Resp: 242343
Ion Ratio Lower Upper
240 100
120 8.3 8.3 12.5#
236 26.0 20.8 31.2





#78

Pyrene

Concen: 30.867 ng

RT: 19.745 min Scan# 2

Delta R.T. 0.005 min

Lab File: BM042582.D

Acq: 03 Nov 2023 22:12

Instrument :

BNA_M

ClientSampleId :

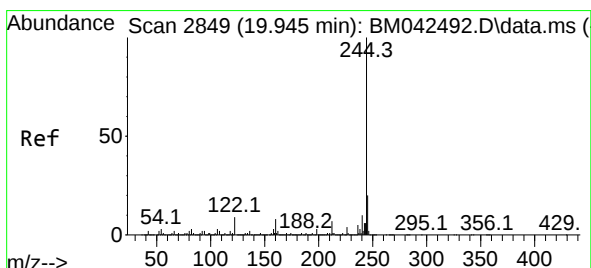
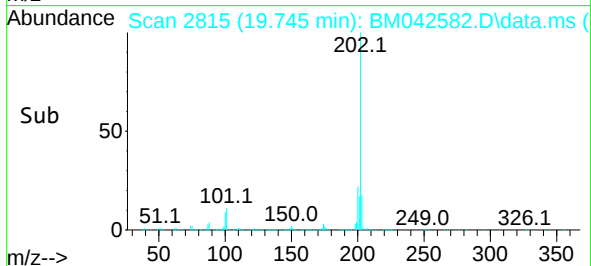
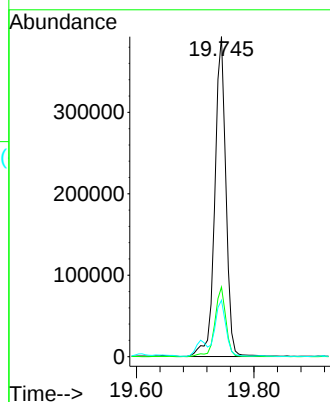
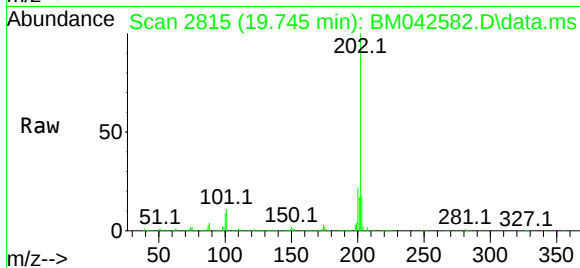
A-5(0-2)DL2

Tgt Ion:202 Resp: 513649
 Ion Ratio Lower Upper
 202 100
 200 21.8 16.9 25.3
 203 17.7 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2023
 Supervised By :mohammad ahmed 11/04/2023



#79

Terphenyl-d14

Concen: 0.126 ng

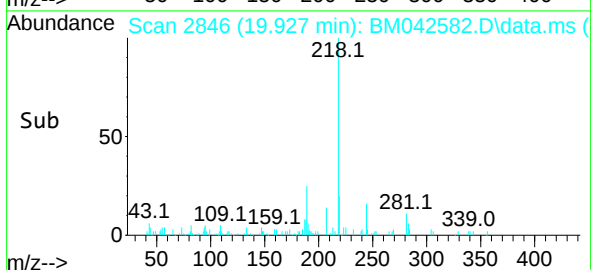
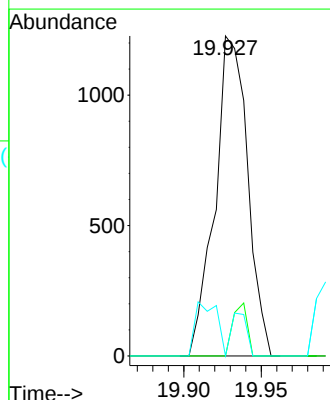
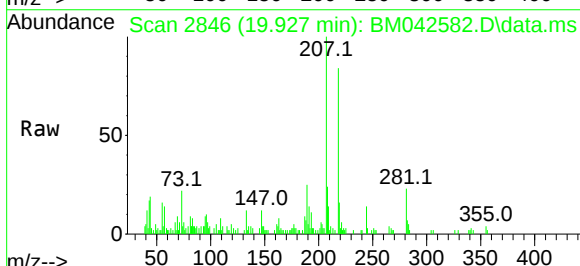
RT: 19.927 min Scan# 2846

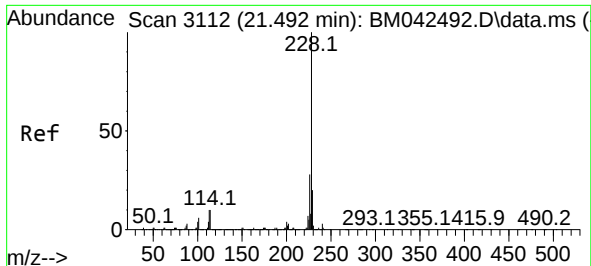
Delta R.T. -0.006 min

Lab File: BM042582.D

Acq: 03 Nov 2023 22:12

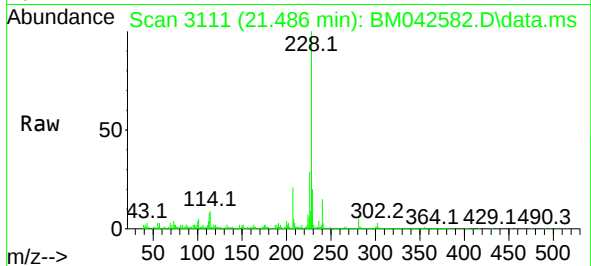
Tgt Ion:244 Resp: 1794
 Ion Ratio Lower Upper
 244 100
 212 0.0 5.4 8.2#
 122 0.0 7.2 10.8#





#81
Benzo(a)anthracene
Concen: 16.404 ng
RT: 21.486 min Scan# 3111
Delta R.T. -0.000 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12

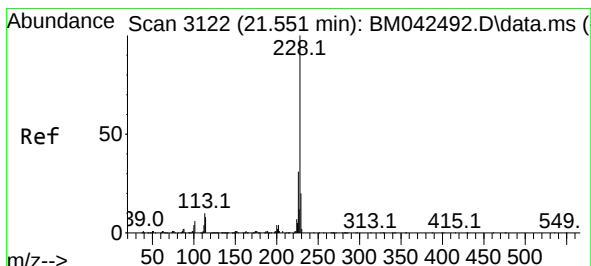
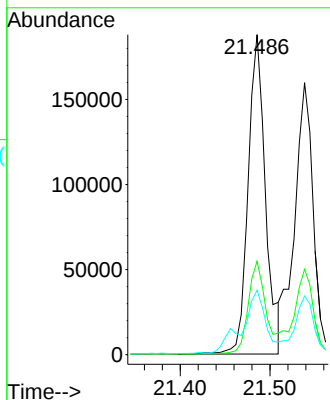
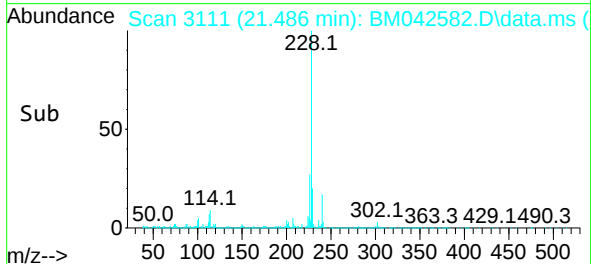
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)DL2



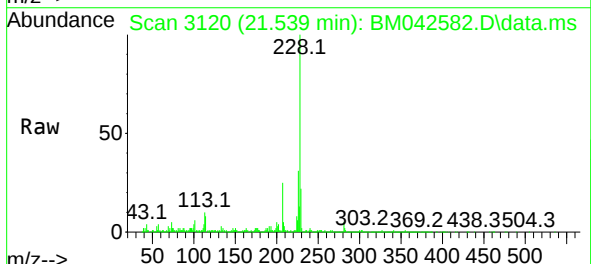
Tgt Ion:228 Resp: 252933
Ion Ratio Lower Upper
228 100
226 29.2 22.3 33.5
229 20.1 15.8 23.8

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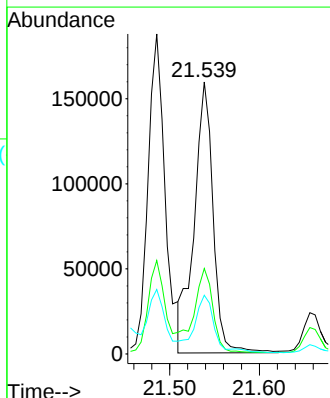
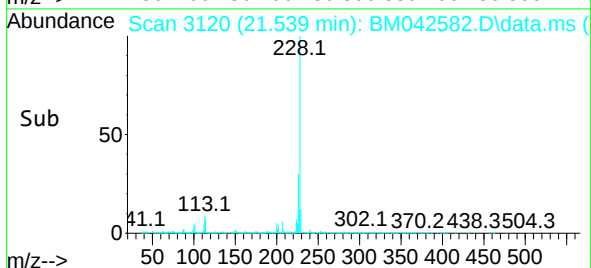
Reviewed By :Yogesh Patel 11/04/2023
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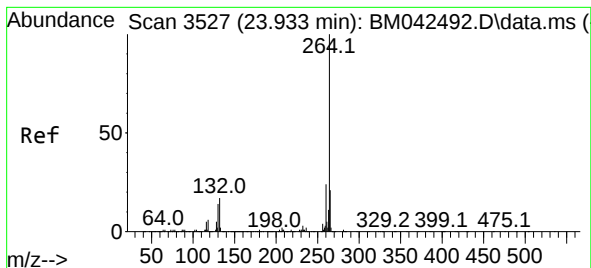


#83
Chrysene
Concen: 14.924 ng
RT: 21.539 min Scan# 3120
Delta R.T. -0.000 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12



Tgt Ion:228 Resp: 233746
Ion Ratio Lower Upper
228 100
226 31.4 24.4 36.6
229 21.6 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.921 min Scan# 3

Delta R.T. 0.005 min

Lab File: BM042582.D

Acq: 03 Nov 2023 22:12

Instrument :

BNA_M

ClientSampleId :

A-5(0-2)DL2

Tgt Ion:264 Resp: 272514

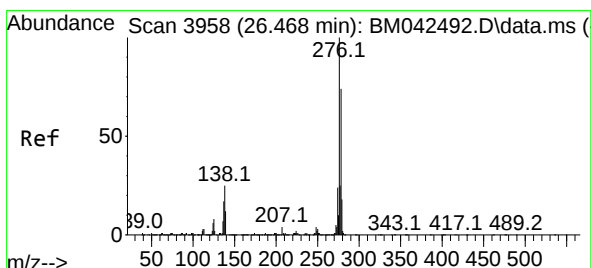
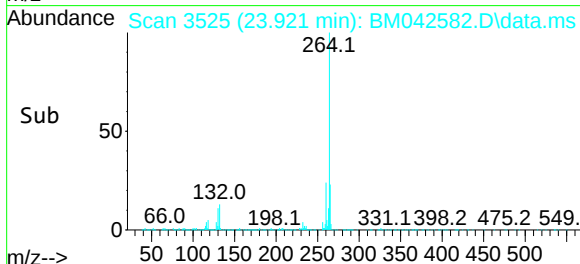
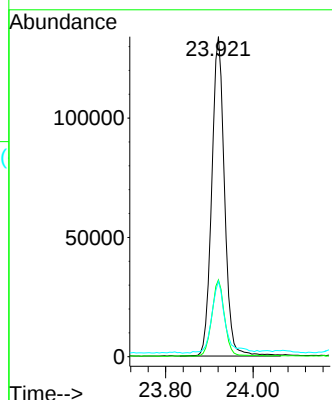
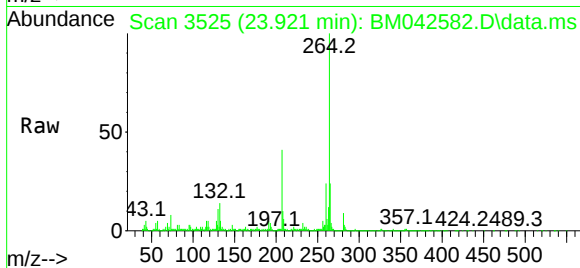
Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.4
265	23.6	18.7	28.1

Manual Integrations

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#87

Indeno(1,2,3-cd)pyrene

Concen: 9.752 ng

RT: 26.450 min Scan# 3955

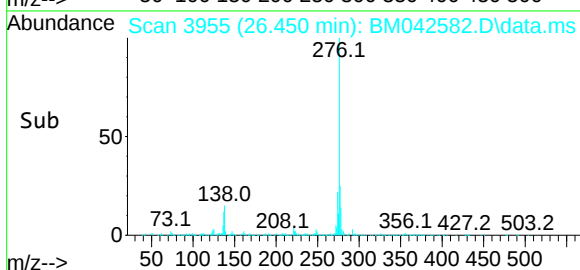
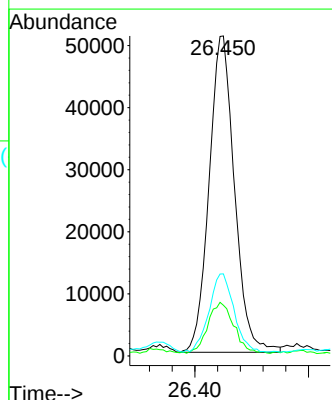
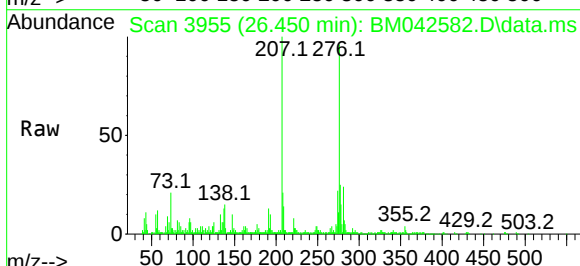
Delta R.T. -0.000 min

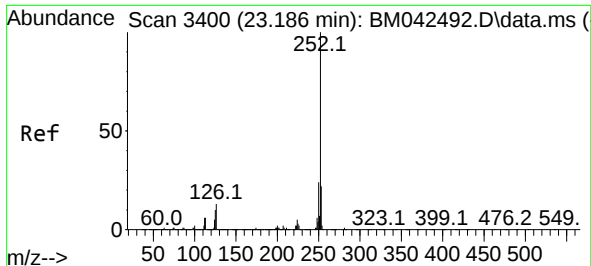
Lab File: BM042582.D

Acq: 03 Nov 2023 22:12

Tgt Ion:276 Resp: 158168

Ion	Ratio	Lower	Upper
276	100		
138	16.4	20.6	31.0#
277	24.3	19.5	29.3





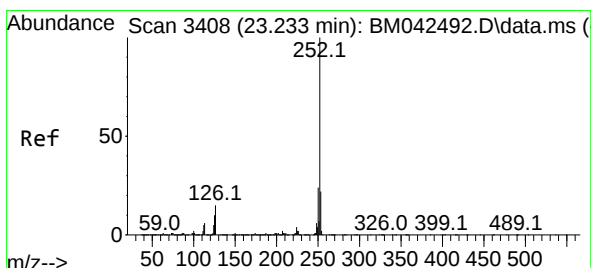
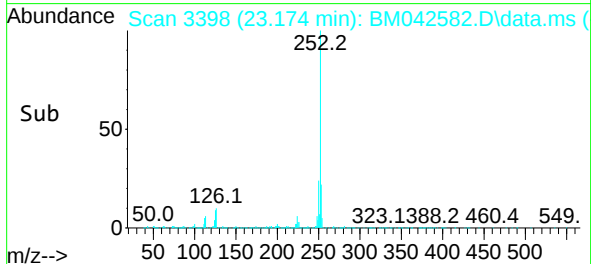
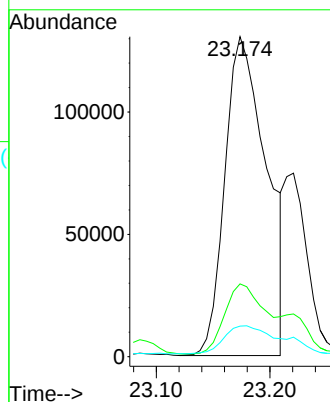
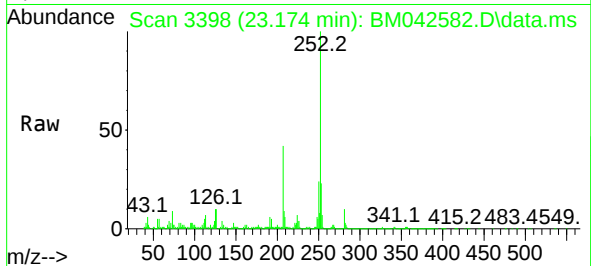
#88
Benzo(b)fluoranthene
Concen: 21.813 ng
RT: 23.174 min Scan# 3116
Delta R.T. -0.000 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12

Instrument :
BNA_M
ClientSampleId :
A-5(0-2)DL2

Tgt Ion:252 Resp: 33116
Ion Ratio Lower Upper
252 100
253 22.7 17.5 26.3
125 9.6 7.8 11.6

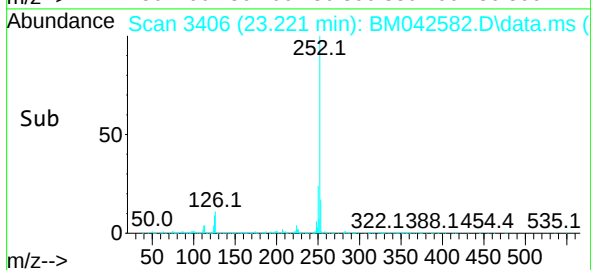
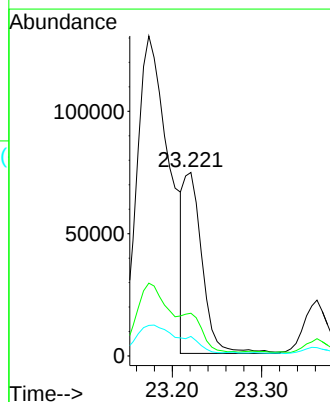
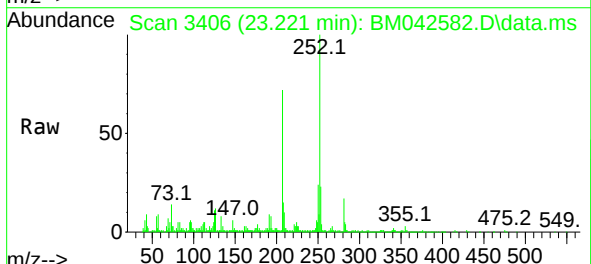
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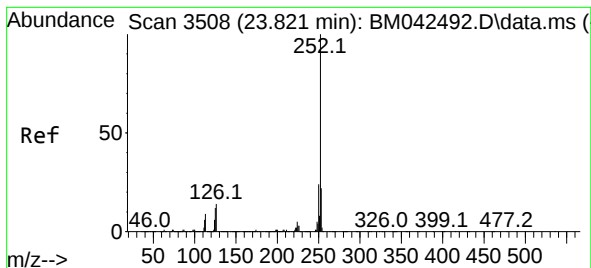
Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023



#89
Benzo(k)fluoranthene
Concen: 6.298 ng m
RT: 23.221 min Scan# 3406
Delta R.T. -0.000 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12

Tgt Ion:252 Resp: 106554
Ion Ratio Lower Upper
252 100
253 23.3 17.6 26.4
125 10.6 8.2 12.4





#90

Benzo(a)pyrene

Concen: 14.547 ng

RT: 23.809 min Scan# 3

Delta R.T. -0.000 min

Lab File: BM042582.D

Acq: 03 Nov 2023 22:12

Instrument :

BNA_M

ClientSampleId :

A-5(0-2)DL2

Tgt Ion:252 Resp: 21744

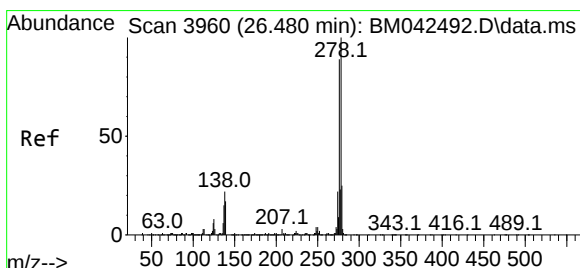
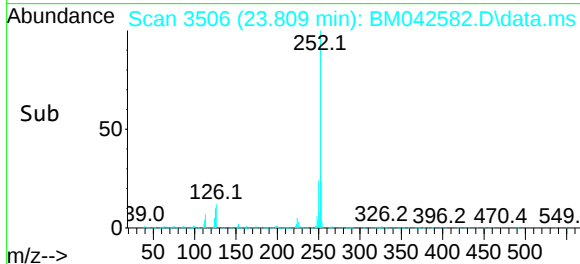
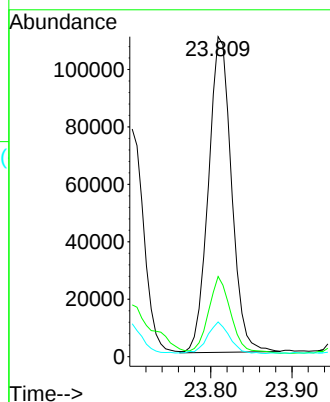
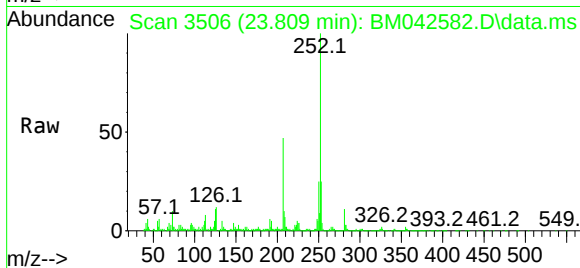
Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.5	26.3
125	10.9	9.4	14.2

Manual Integrations

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#91

Dibenzo(a,h)anthracene

Concen: 6.174 ng

RT: 26.456 min Scan# 3956

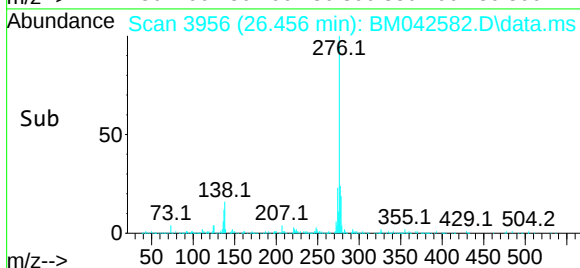
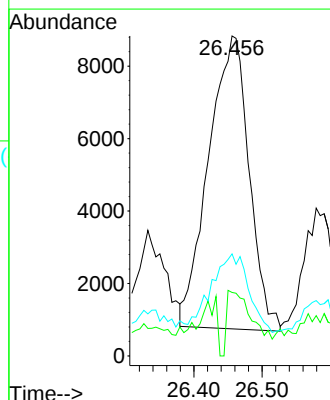
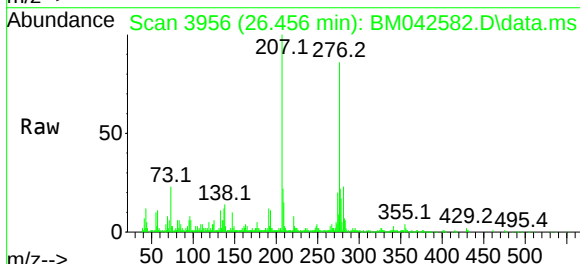
Delta R.T. -0.012 min

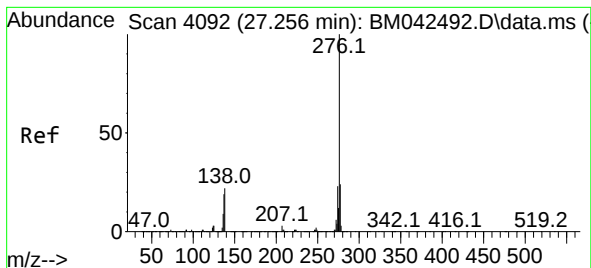
Lab File: BM042582.D

Acq: 03 Nov 2023 22:12

Tgt Ion:278 Resp: 33358

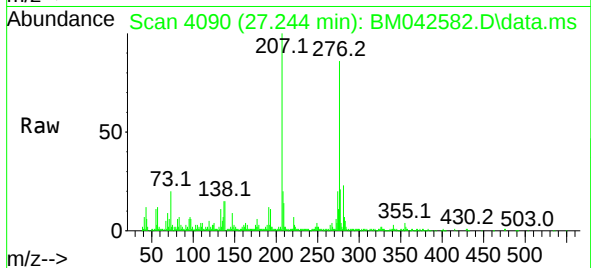
Ion	Ratio	Lower	Upper
278	100		
139	19.9	13.4	20.2
279	31.9	19.7	29.5





#92
Benzo(g,h,i)perylene
Concen: 10.954 ng
RT: 27.244 min Scan# 4090
Delta R.T. -0.000 min
Lab File: BM042582.D
Acq: 03 Nov 2023 22:12

Instrument :
BNA_M
ClientSampleId :
A-5(0-2)DL2



Tgt Ion:276 Resp: 15658
Ion Ratio Lower Upper
276 100
277 24.6 19.2 28.8
138 17.3 17.3 25.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2023
Supervised By :mohammad ahmed 11/04/2023

