

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042523.D
 Acq On : 31 Oct 2023 22:35
 Operator : MA/JU
 Sample : 04938-13 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-7(0-2)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

Quant Time: Nov 01 01:51:33 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 02:55:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.928	152	68693	20.000	ng	0.00
21) Naphthalene-d8	10.745	136	259917	20.000	ng	0.00
39) Acenaphthene-d10	14.574	164	155762	20.000	ng	0.00
64) Phenanthrene-d10	17.327	188	340887	20.000	ng	0.00
76) Chrysene-d12	21.515	240	388115	20.000	ng	# 0.00
86) Perylene-d12	23.938	264	406806	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	37526	8.816	ng	0.00
7) Phenol-d6	7.092	99	43383	7.432	ng	0.00
23) Nitrobenzene-d5	9.122	82	29297	5.254	ng	-0.01
42) 2,4,6-Tribromophenol	16.068	330	17086	8.402	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	59686	5.156	ng	0.00
79) Terphenyl-d14	19.939	244	92318	4.033	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.792	128	57725	4.299	ng	98
37) 2-Methylnaphthalene	12.398	142	26865	2.841	ng	95
38) 1-Methylnaphthalene	12.621	142	27995	3.145	ng	99
49) Acenaphthylene	14.304	152	130479	9.020	ng	99
52) Acenaphthene	14.633	154	68515	7.804	ng	98
55) Dibenzofuran	14.974	168	44666	3.129	ng	98
58) Fluorene	15.621	166	124734	10.800	ng	98
71) Phenanthrene	17.374	178	2380557	133.630	ng	100
72) Anthracene	17.462	178	596653	33.814	ng	99
73) Carbazole	17.751	167	208059	14.494	ng	100
75) Fluoranthene	19.398	202	6927445	331.043	ng	96
78) Pyrene	19.762	202	6851943	257.104	ng	98
81) Benzo(a)anthracene	21.497	228	3905786	158.168	ng	98
83) Chrysene	21.556	228	3491041	139.175	ng	97
87) Indeno(1,2,3-cd)pyrene	26.497	276	2649764	109.440	ng	# 90
88) Benzo(b)fluoranthene	23.209	252	5341634	235.688	ng	97
89) Benzo(k)fluoranthene	23.244	252	1819200m	72.034	ng	
90) Benzo(a)pyrene	23.844	252	3798796m	170.249	ng	
91) Dibenzo(a,h)anthracene	26.503	278	642226m	30.393	ng	
92) Benzo(g,h,i)perylene	27.297	276	2571175	120.489	ng	# 95

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

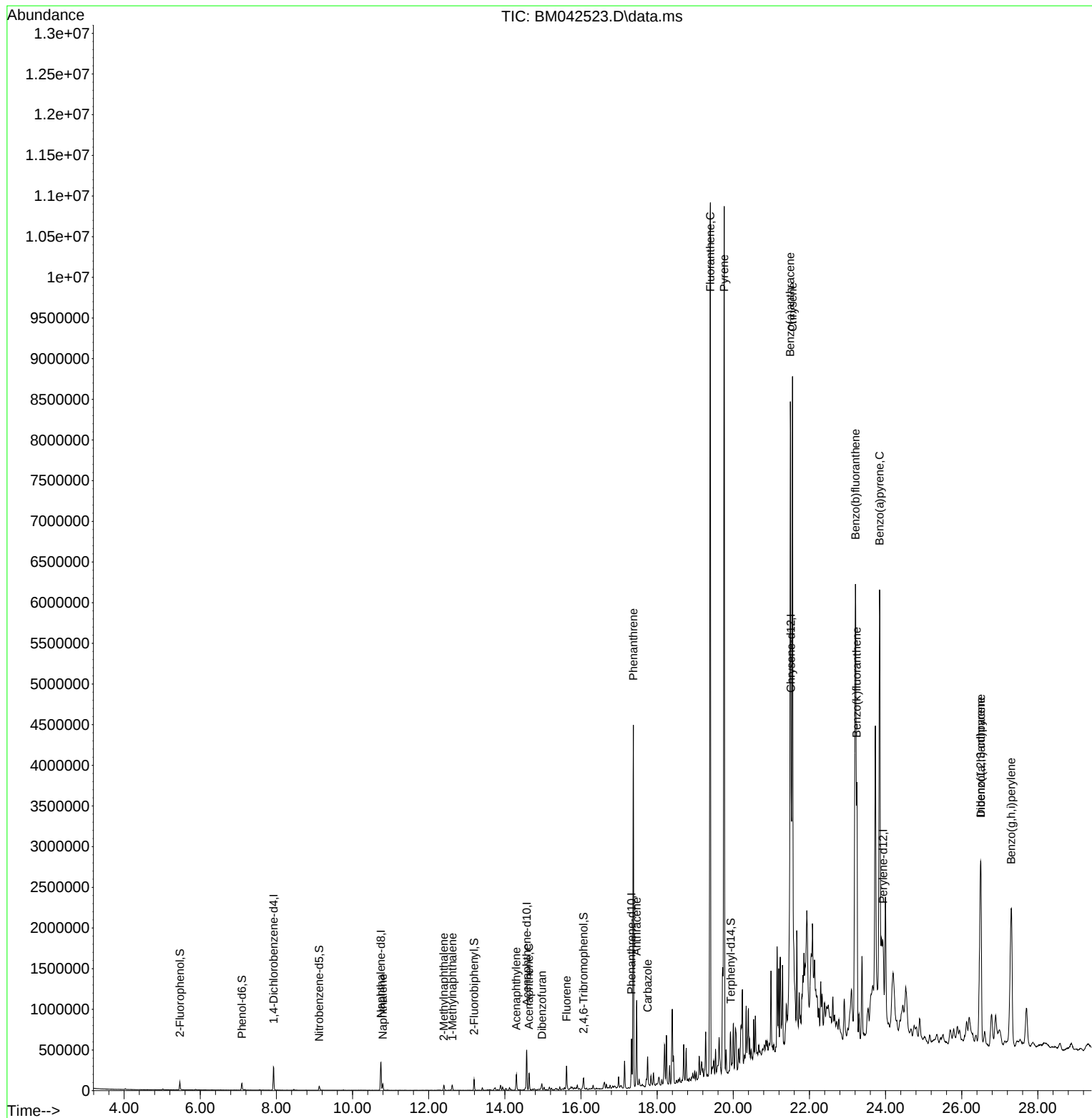
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042523.D
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ALS Vial : 12 Sample Multiplier: 1

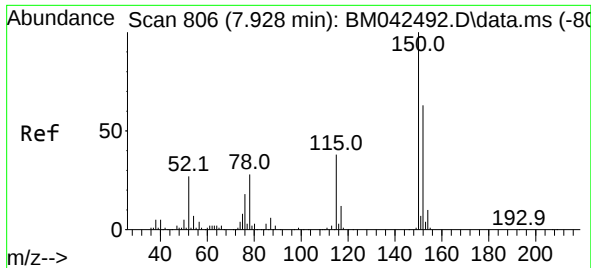
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Quant Time: Nov 01 01:51:33 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 02:55:18 2023
Response via : Initial Calibration

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Supervised By :mohammad ahmed 11/01/2023





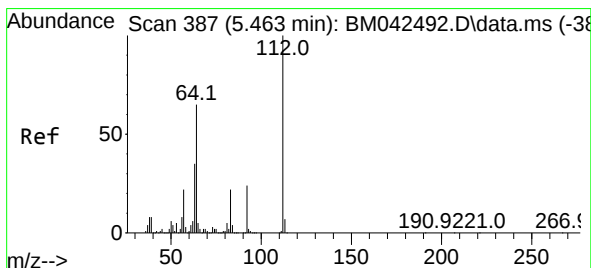
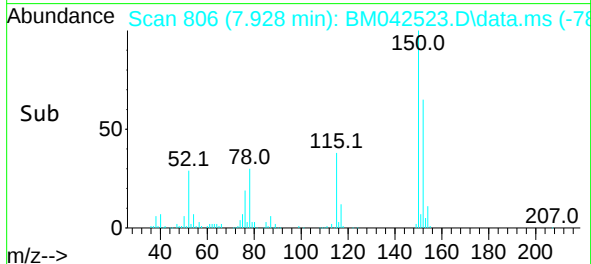
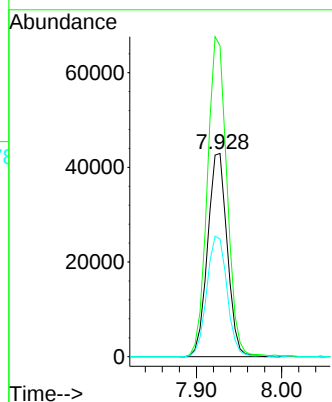
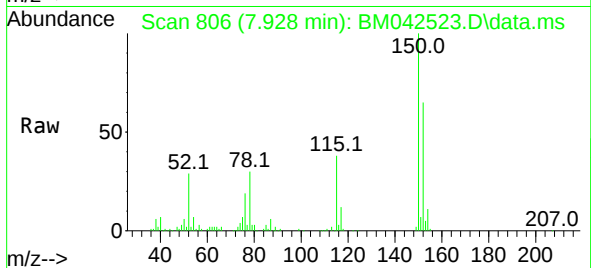
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.928 min Scan# 806
Delta R.T. -0.000 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Tgt Ion:152 Resp: 6869
Ion Ratio Lower Upper
152 100
150 153.0 127.4 191.0
115 58.0 47.9 71.9

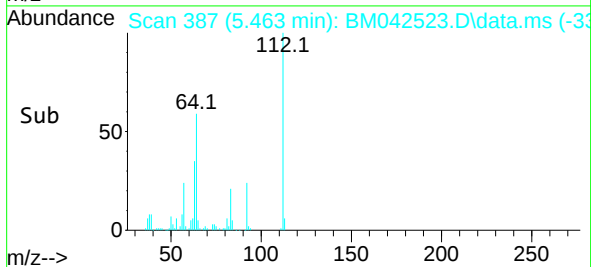
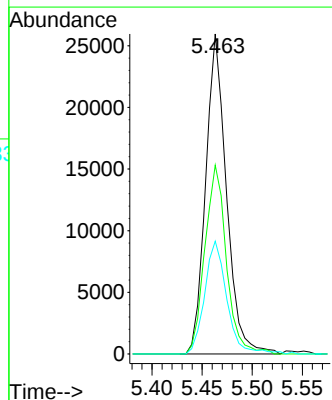
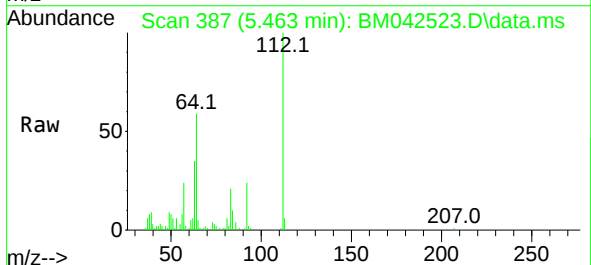
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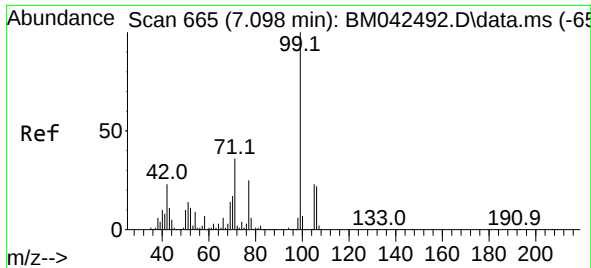
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 8.816 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

Tgt Ion:112 Resp: 37526
Ion Ratio Lower Upper
112 100
64 59.0 52.1 78.1
63 35.3 28.3 42.5





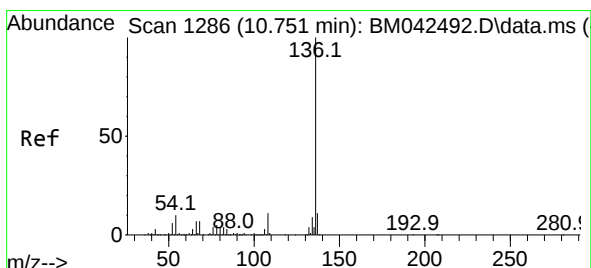
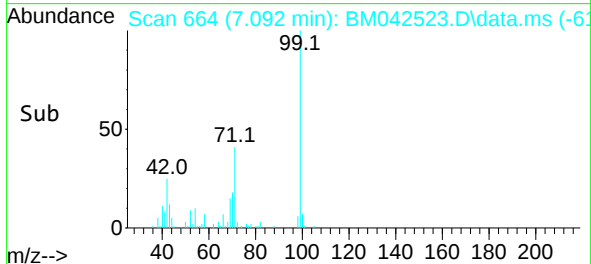
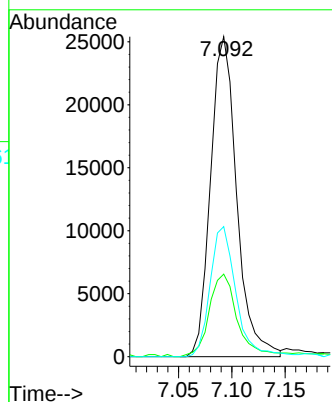
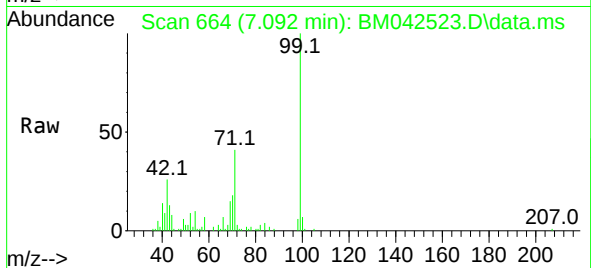
#7
Phenol-d6
Concen: 7.432 ng
RT: 7.092 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Tgt Ion: 99 Resp: 4338
Ion Ratio Lower Upper
99 100
42 25.8 18.7 28.1
71 40.7 29.1 43.7

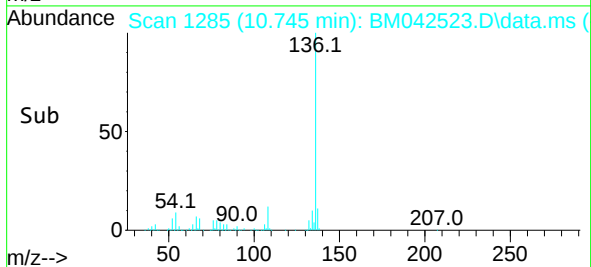
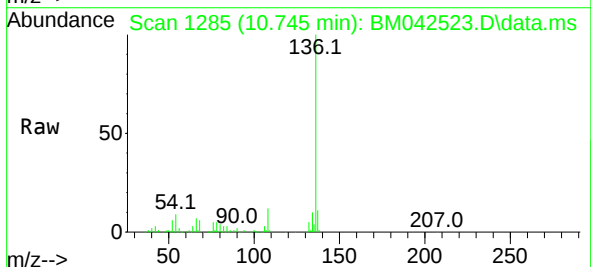
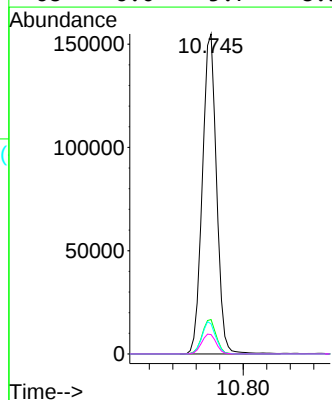
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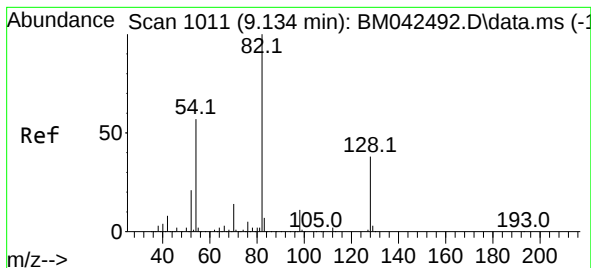
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.745 min Scan# 1285
Delta R.T. -0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

Tgt Ion:136 Resp: 259917
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.6
54 9.4 8.0 12.0
68 6.0 5.7 8.5





#23

Nitrobenzene-d5

Concen: 5.254 ng

RT: 9.122 min Scan# 1011

Delta R.T. -0.012 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)

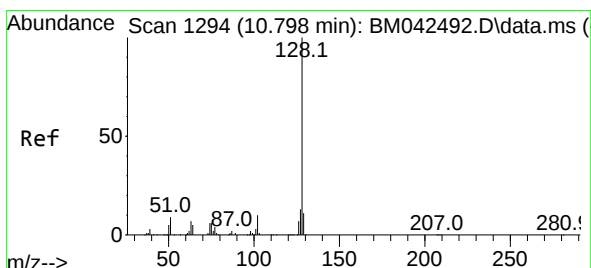
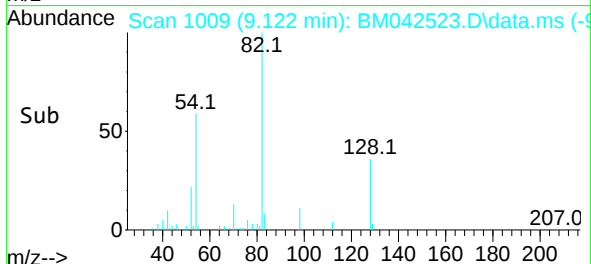
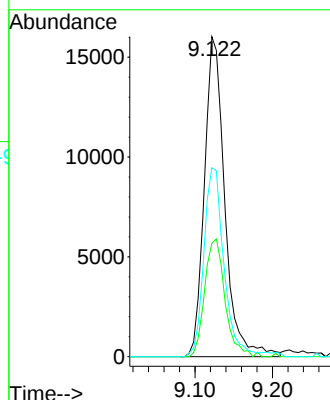
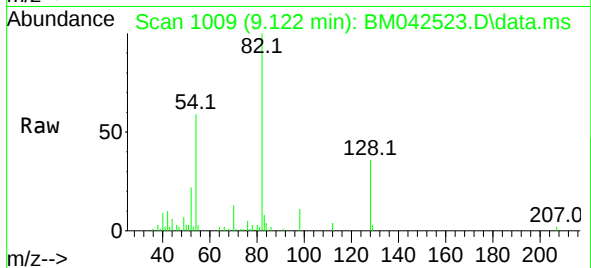
Tgt Ion:	82	Resp:	2929
Ion Ratio	Lower	Upper	
82	100		
128	35.5	30.7	46.1
54	59.0	45.3	67.9

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#31

Naphthalene

Concen: 4.299 ng

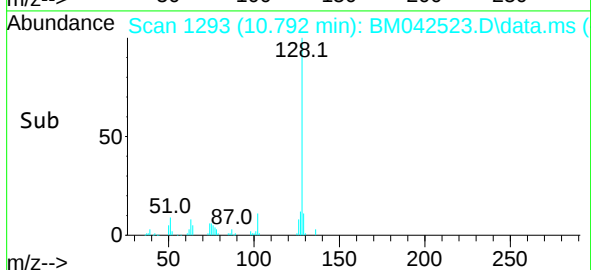
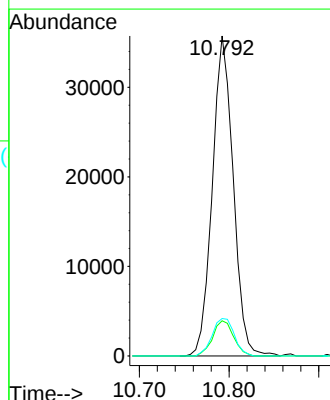
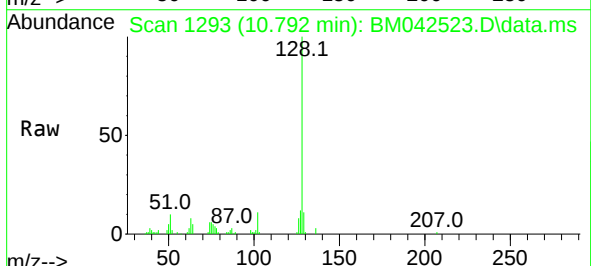
RT: 10.792 min Scan# 1293

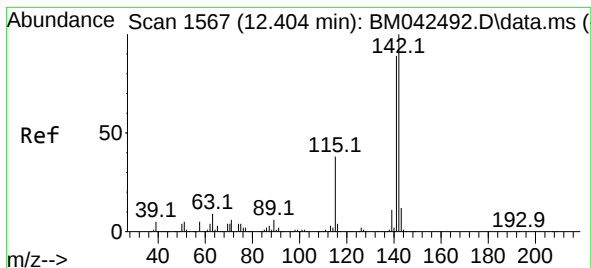
Delta R.T. -0.006 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Tgt Ion:	128	Resp:	57725
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.8	13.2
127	11.7	10.6	15.8





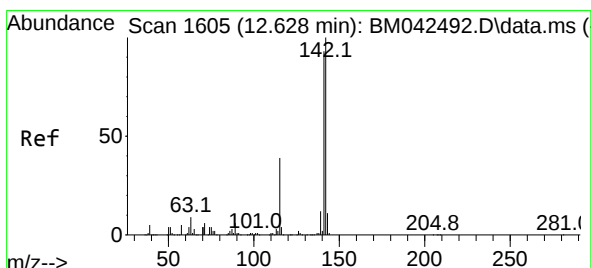
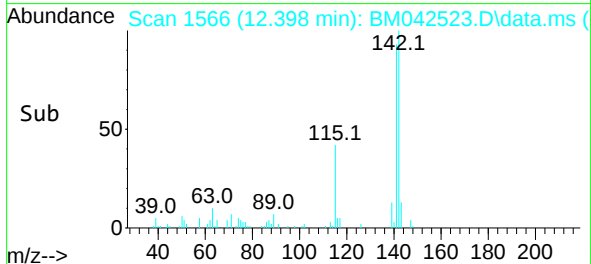
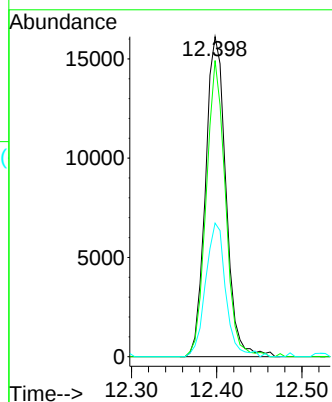
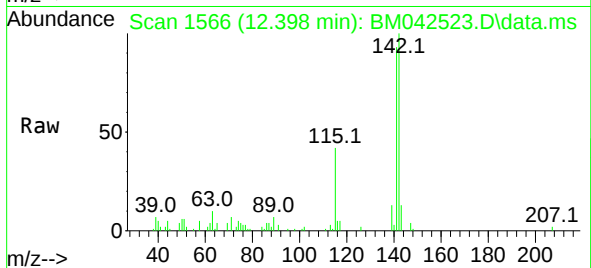
#37
2-Methylnaphthalene
Concen: 2.841 ng
RT: 12.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Tgt Ion:142 Resp: 2686
Ion Ratio Lower Upper
142 100
141 92.5 70.9 106.3
115 41.7 30.2 45.2

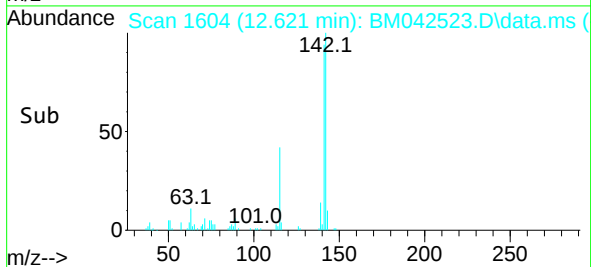
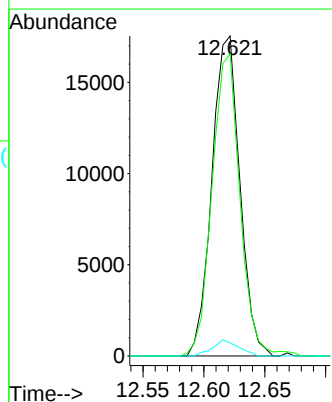
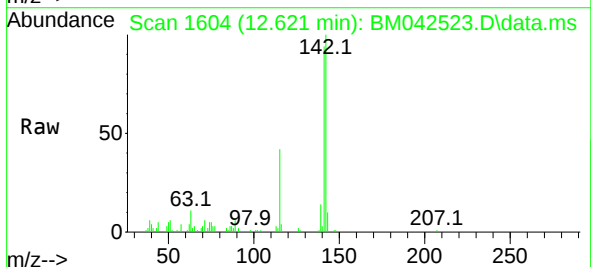
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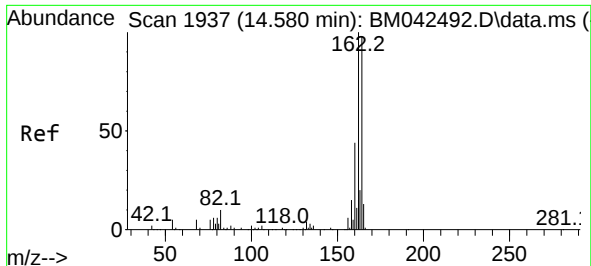
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#38
1-Methylnaphthalene
Concen: 3.145 ng
RT: 12.621 min Scan# 1604
Delta R.T. -0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

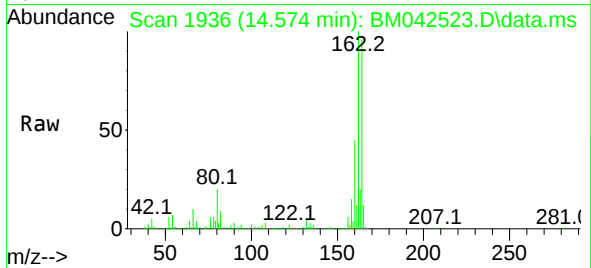
Tgt Ion:142 Resp: 27995
Ion Ratio Lower Upper
142 100
141 94.3 74.4 111.6
116 4.0 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.574 min Scan# 1936
Delta R.T. -0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

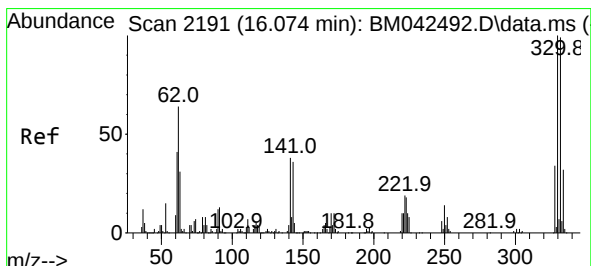
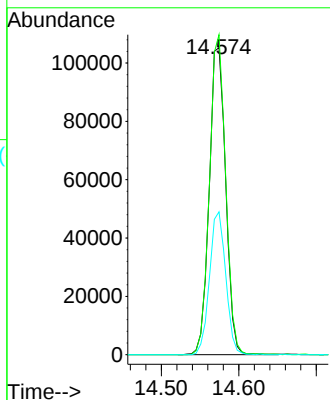
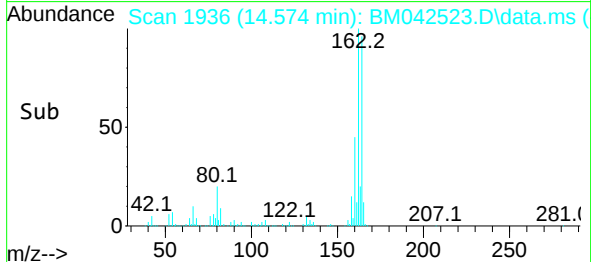
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)



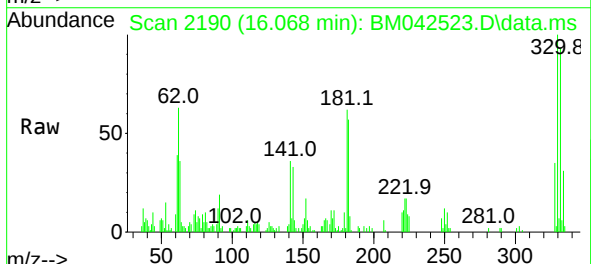
Tgt Ion:164 Resp: 155762
Ion Ratio Lower Upper
164 100
162 104.2 81.6 122.4
160 46.5 36.2 54.4

Manual Integrations
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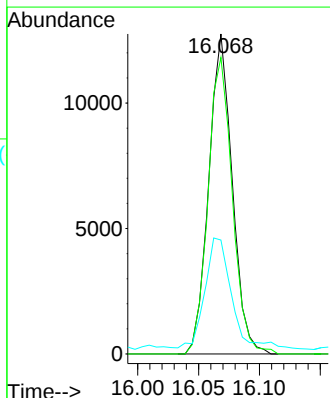
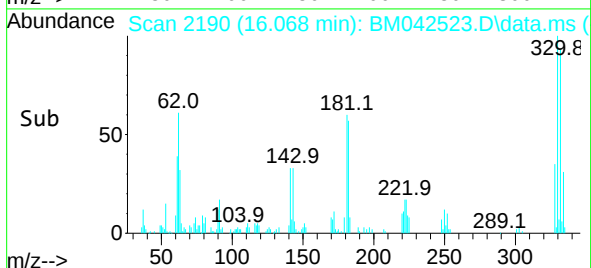
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

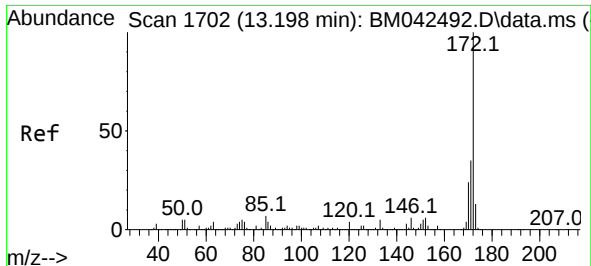


#42
2,4,6-Tribromophenol
Concen: 8.402 ng
RT: 16.068 min Scan# 2190
Delta R.T. -0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35



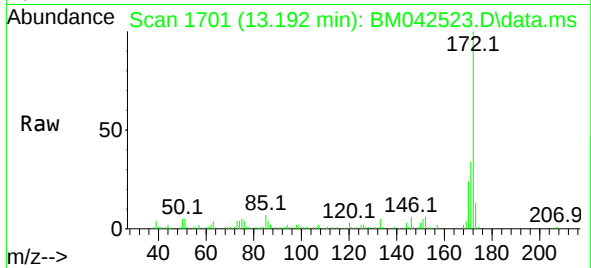
Tgt Ion:330 Resp: 17086
Ion Ratio Lower Upper
330 100
332 96.1 78.8 118.2
141 41.1 31.1 46.7





#45
2-Fluorobiphenyl
Concen: 5.156 ng
RT: 13.192 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

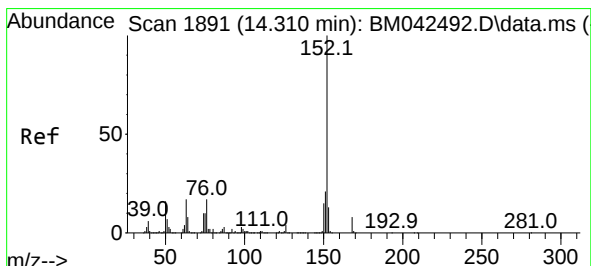
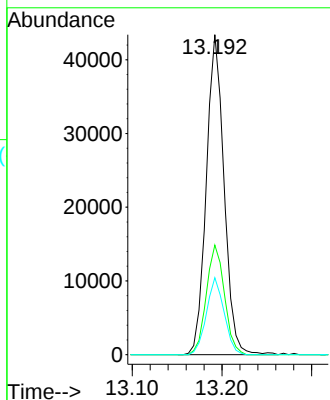
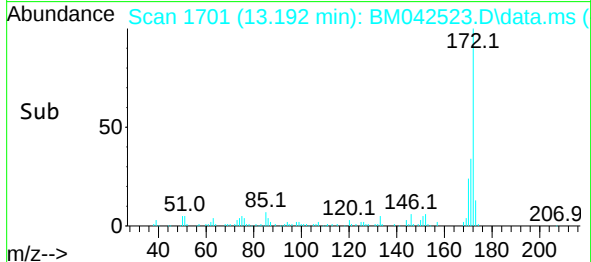
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)



Tgt Ion:172 Resp: 59680
Ion Ratio Lower Upper
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171 34.3 28.2 42.2
170 24.1 19.0 28.4

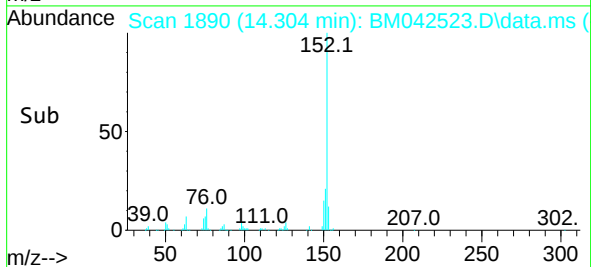
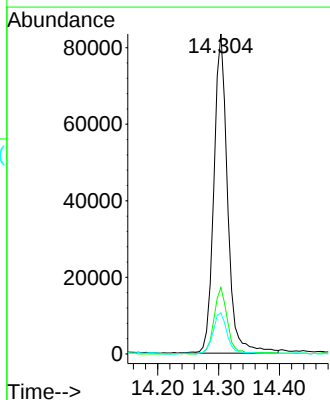
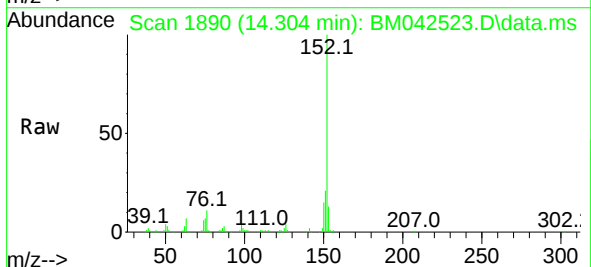
Manual Integrations
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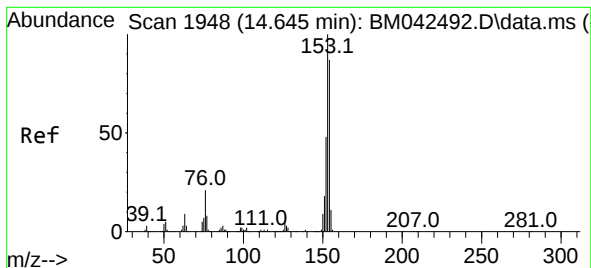
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#49
Acenaphthylene
Concen: 9.020 ng
RT: 14.304 min Scan# 1890
Delta R.T. -0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

Tgt Ion:152 Resp: 130479
Ion Ratio Lower Upper
152 100
151 20.8 16.4 24.6
153 12.9 10.4 15.6





#52

Acenaphthene

Concen: 7.804 ng

RT: 14.633 min Scan# 1946

Delta R.T. -0.012 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)

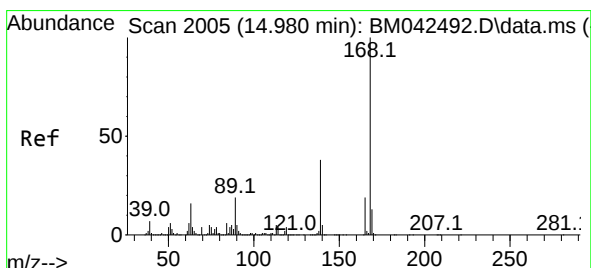
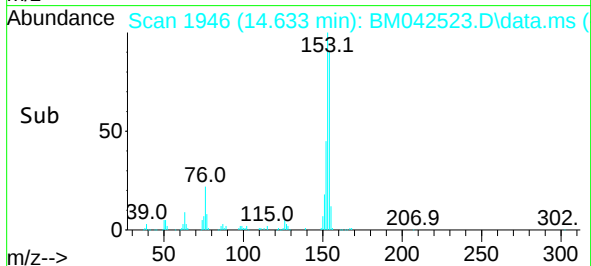
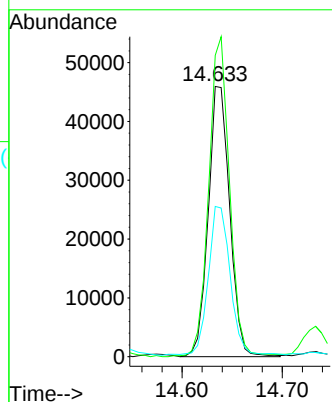
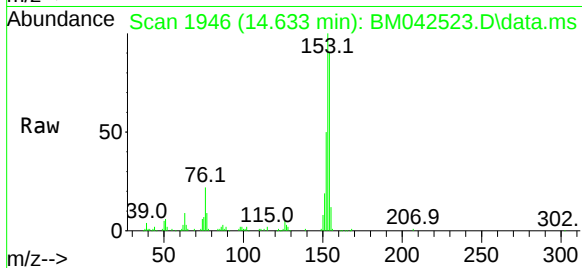
Tgt Ion:154	Resp:	6851
Ion Ratio	Lower	Upper
154	100	
153	111.4	92.0 138.0
152	55.6	44.0 66.0

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#55

Dibenzofuran

Concen: 3.129 ng

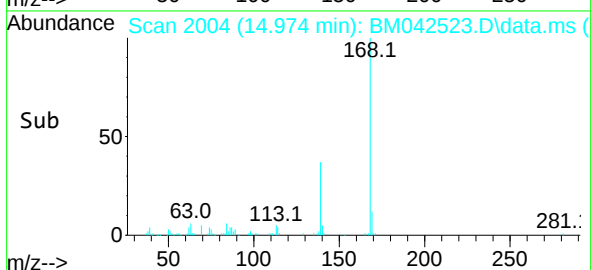
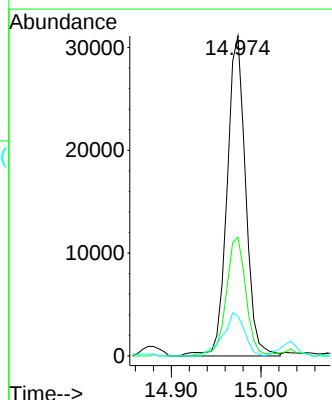
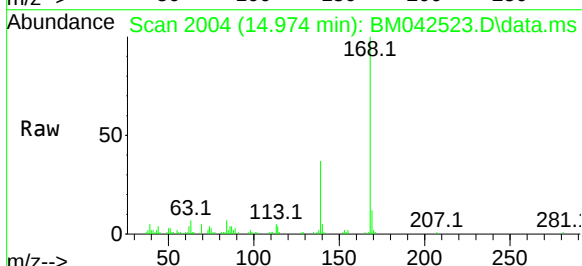
RT: 14.974 min Scan# 2004

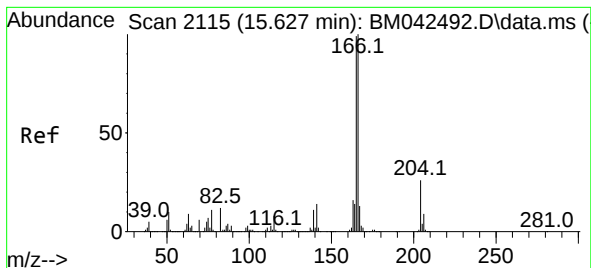
Delta R.T. -0.006 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Tgt Ion:168	Resp:	44666
Ion Ratio	Lower	Upper
168	100	
139	37.1	30.4 45.6
169	12.5	10.6 15.8





#58

Fluorene

Concen: 10.800 ng

RT: 15.621 min Scan# 2115

Delta R.T. -0.006 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)

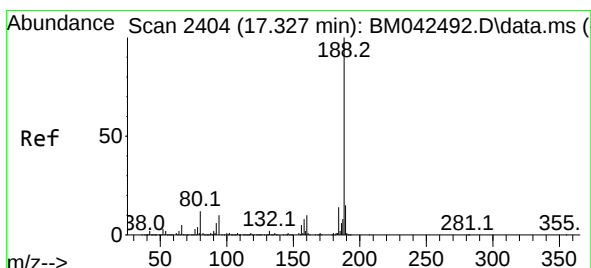
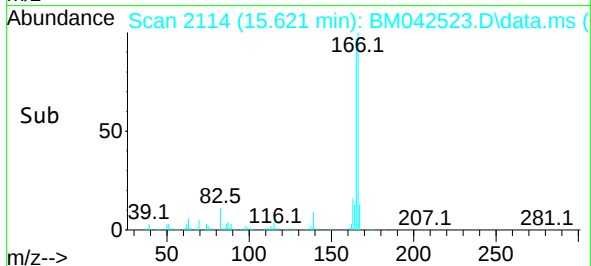
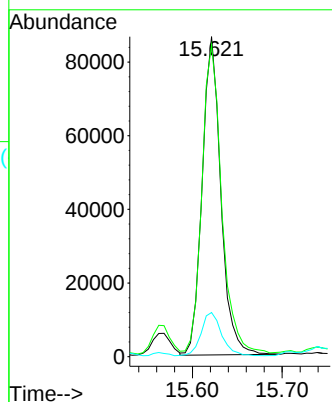
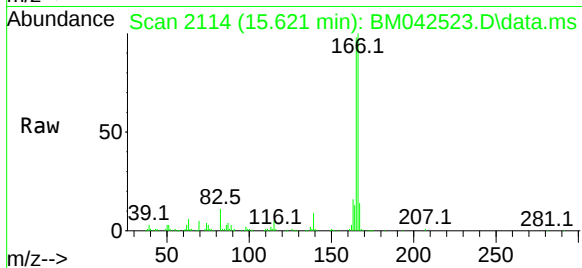
Tgt Ion:166 Resp: 124734
 Ion Ratio Lower Upper
 166 100
 165 97.5 79.3 118.9
 167 13.8 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

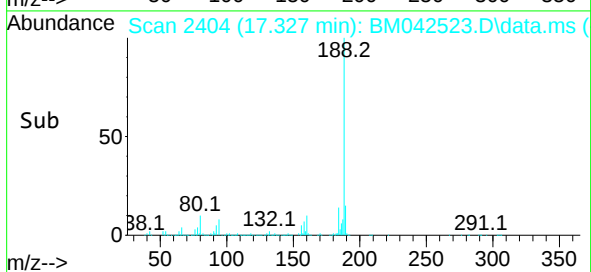
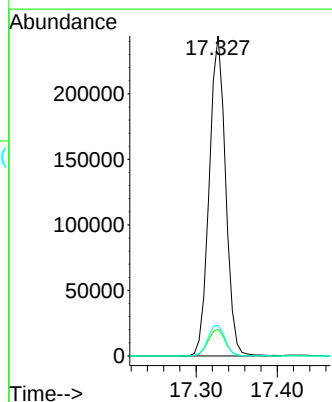
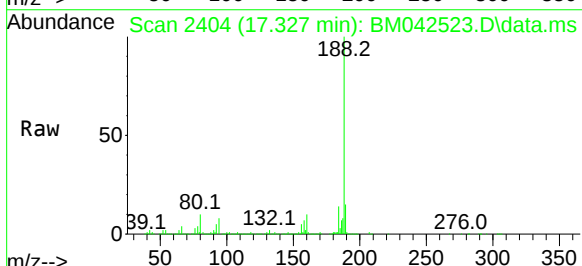
RT: 17.327 min Scan# 2404

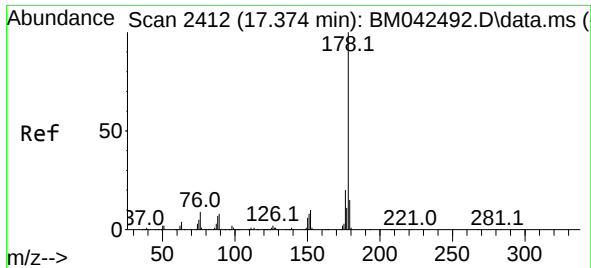
Delta R.T. 0.000 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

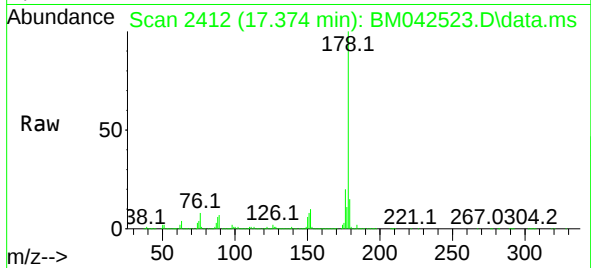
Tgt Ion:188 Resp: 340887
 Ion Ratio Lower Upper
 188 100
 94 8.4 8.2 12.4
 80 9.6 9.4 14.2





#71
Phenanthrene
Concen: 133.630 ng
RT: 17.374 min Scan# 2412
Delta R.T. -0.000 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

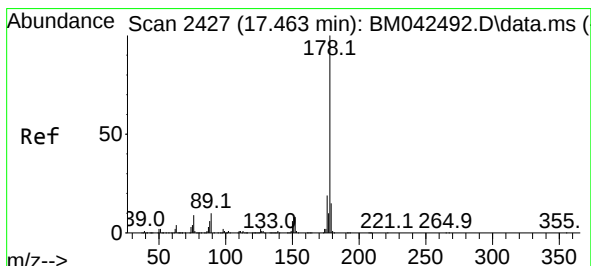
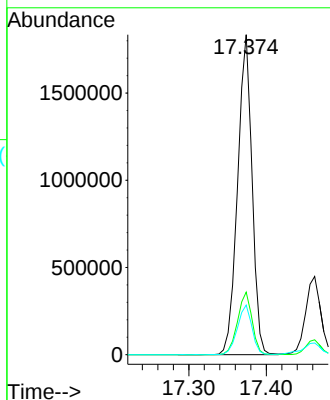
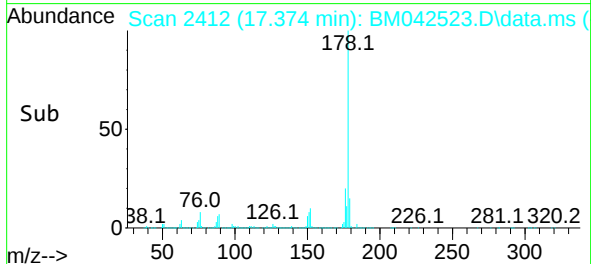
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)



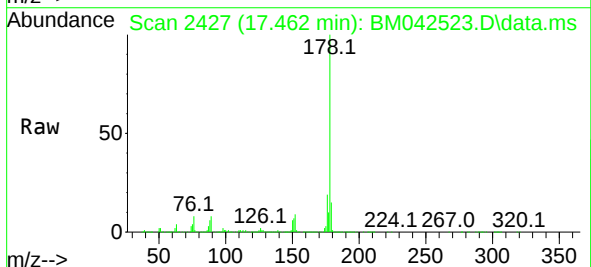
Tgt Ion:178 Resp: 238055
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.5 12.2 18.4

Manual Integrations
APPROVED

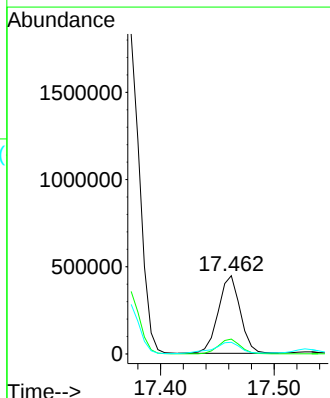
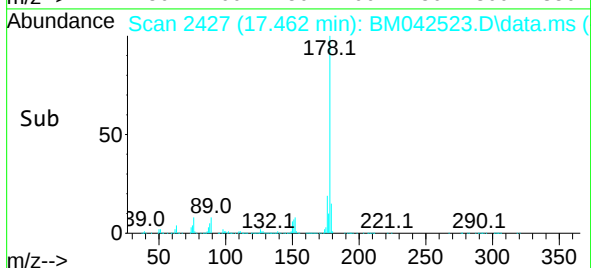
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

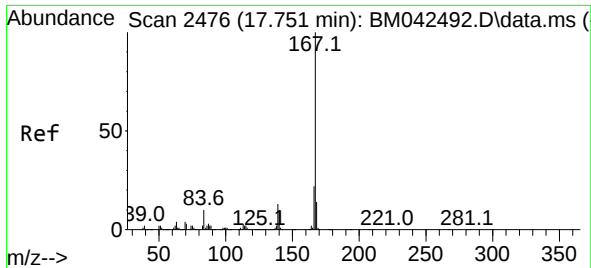


#72
Anthracene
Concen: 33.814 ng
RT: 17.462 min Scan# 2427
Delta R.T. -0.000 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35



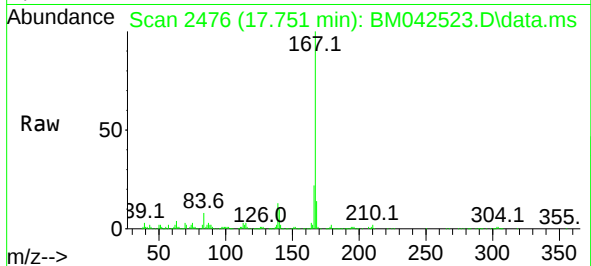
Tgt Ion:178 Resp: 596653
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.0 12.3 18.5





#73
 Carbazole
 Concen: 14.494 ng
 RT: 17.751 min Scan# 2476
 Delta R.T. -0.000 min
 Lab File: BM042523.D
 Acq: 31 Oct 2023 22:35

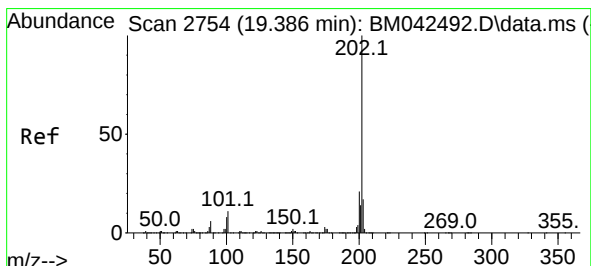
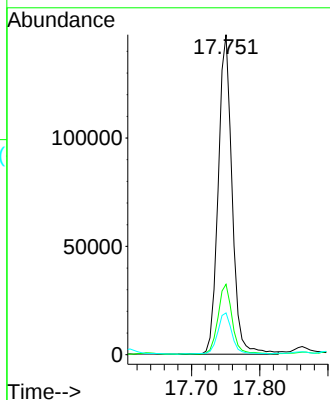
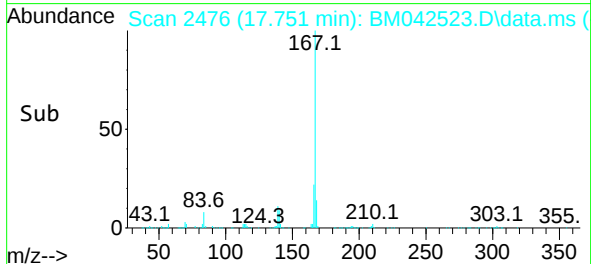
Instrument :
 BNA_M
 ClientSampleId :
 A-7(0-2)



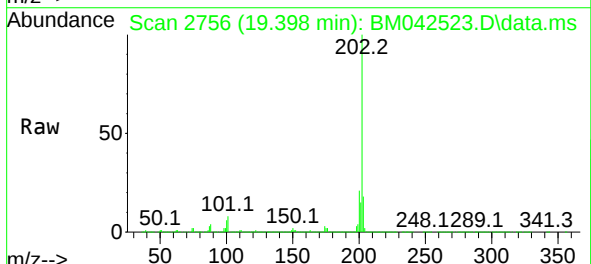
Tgt Ion:167 Resp: 208059
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.4 26.2
 139 13.1 10.5 15.7

Manual Integrations
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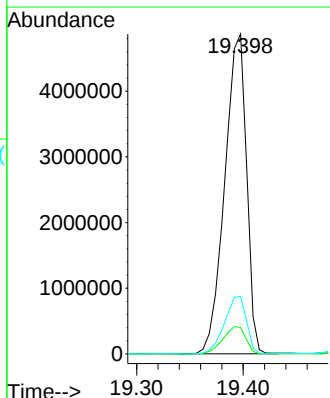
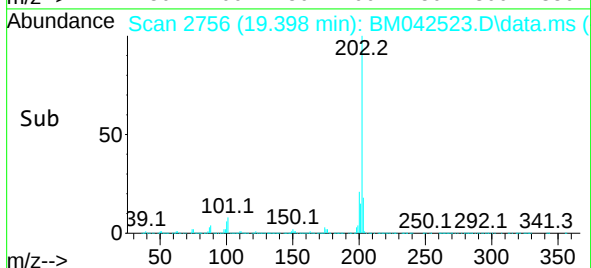
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

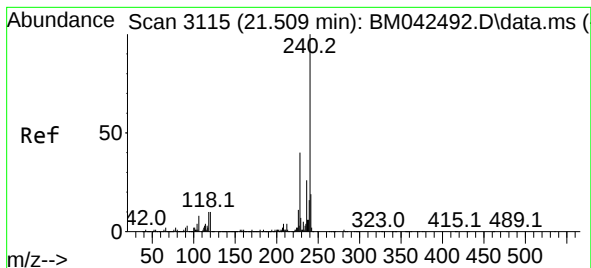


#75
 Fluoranthene
 Concen: 331.043 ng
 RT: 19.398 min Scan# 2756
 Delta R.T. 0.012 min
 Lab File: BM042523.D
 Acq: 31 Oct 2023 22:35



Tgt Ion:202 Resp: 6927445
 Ion Ratio Lower Upper
 202 100
 101 8.2 0.0 30.5
 203 18.0 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.515 min Scan# 3115

Delta R.T. 0.006 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)

Tgt Ion:240 Resp: 388115

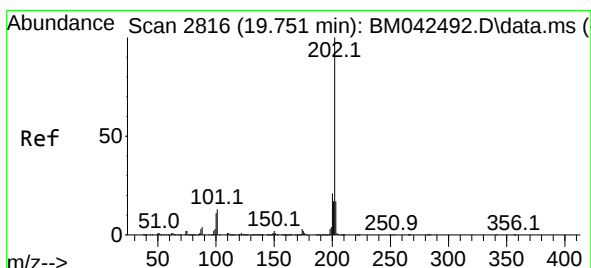
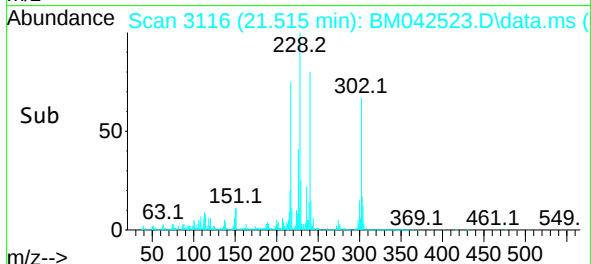
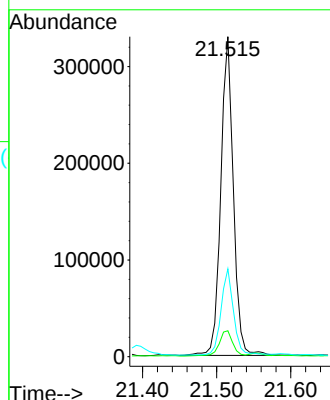
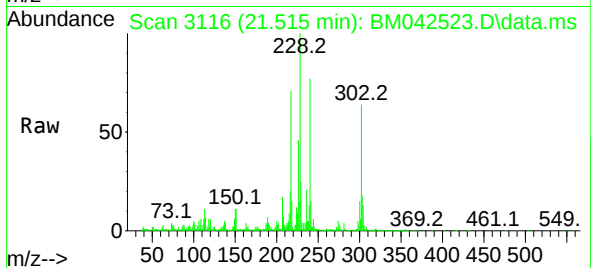
Ion	Ratio	Lower	Upper
240	100		
120	8.1	8.3	12.5
236	27.5	20.8	31.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#78

Pyrene

Concen: 257.104 ng

RT: 19.762 min Scan# 2818

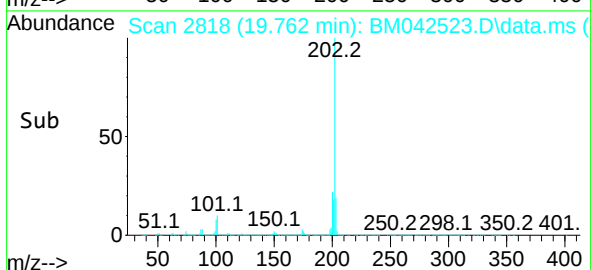
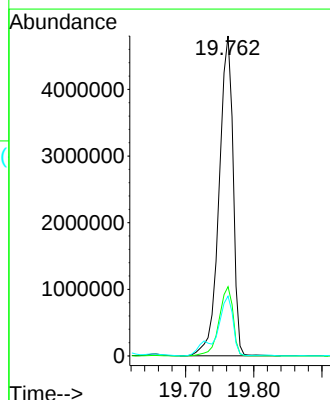
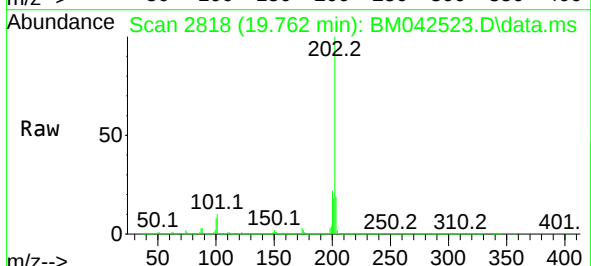
Delta R.T. 0.012 min

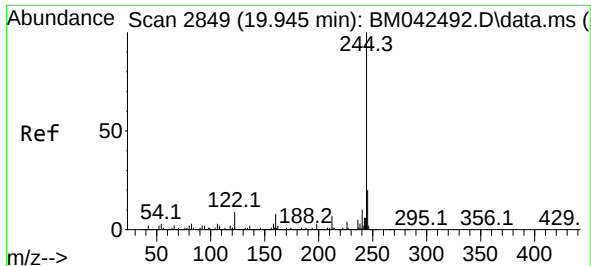
Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Tgt Ion:202 Resp: 6851943

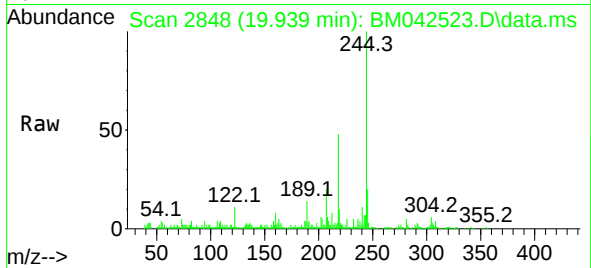
Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.9	25.3
203	18.7	13.7	20.5





#79
 Terphenyl-d14
 Concen: 4.033 ng
 RT: 19.939 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM042523.D
 Acq: 31 Oct 2023 22:35

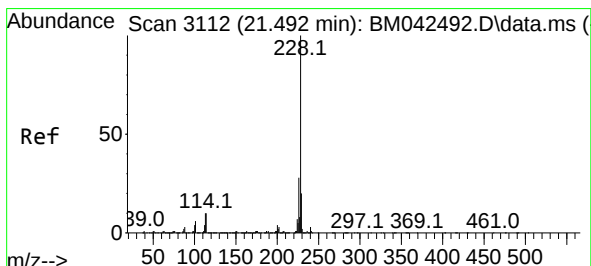
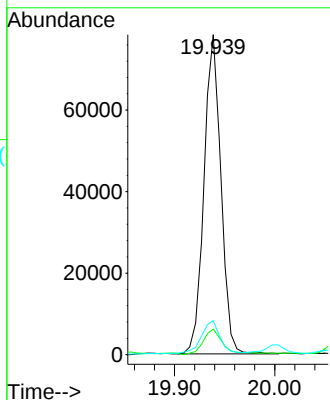
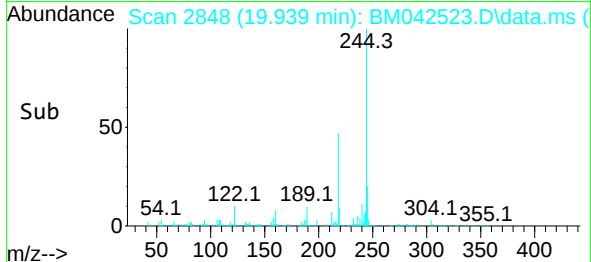
Instrument :
 BNA_M
 ClientSampleId :
 A-7(0-2)



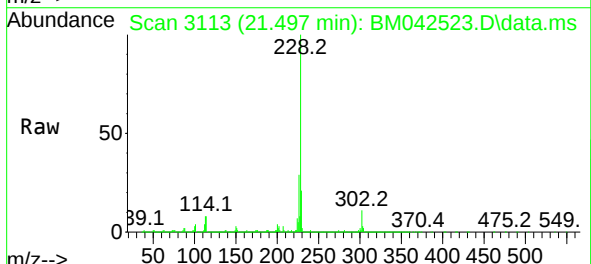
Tgt Ion:244 Resp: 92318
 Ion Ratio Lower Upper
 244 100
 212 8.0 5.4 8.2
 122 10.7 7.2 10.8

Manual Integrations
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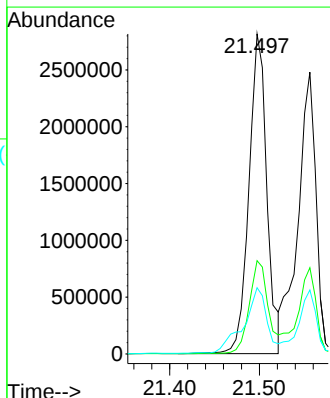
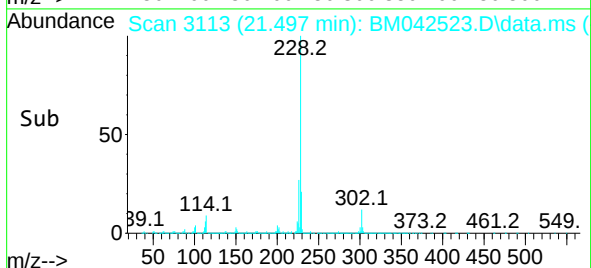
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

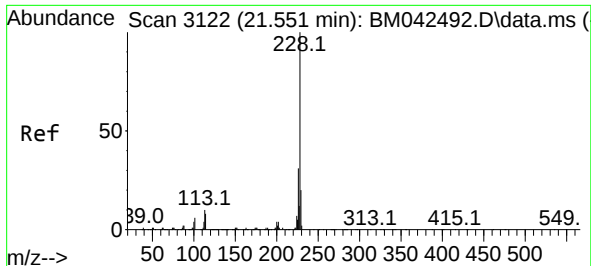


#81
 Benzo(a)anthracene
 Concen: 158.168 ng
 RT: 21.497 min Scan# 3113
 Delta R.T. 0.006 min
 Lab File: BM042523.D
 Acq: 31 Oct 2023 22:35



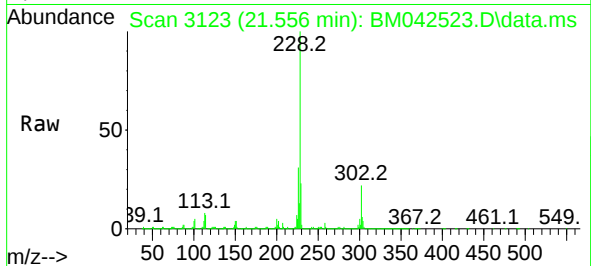
Tgt Ion:228 Resp: 3905786
 Ion Ratio Lower Upper
 228 100
 226 29.2 22.3 33.5
 229 20.7 15.8 23.8





#83
Chrysene
Concen: 139.175 ng
RT: 21.556 min Scan# 3122
Delta R.T. 0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

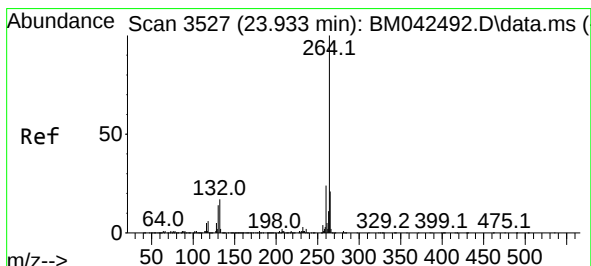
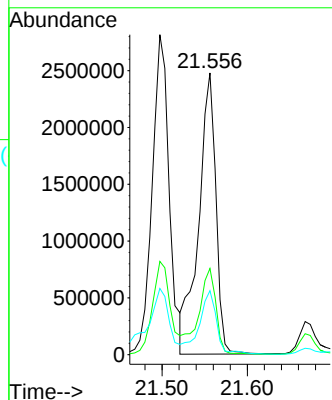
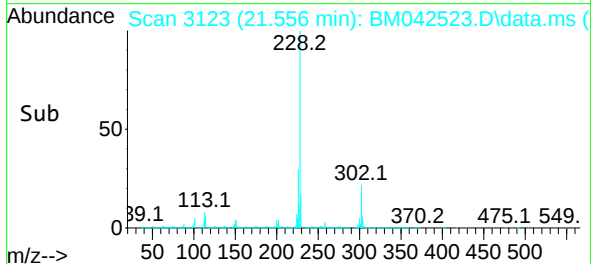
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)



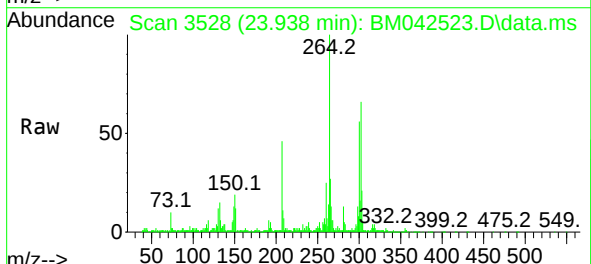
Tgt Ion:228 Resp: 349104
Ion Ratio Lower Upper
228 100
226 30.6 24.4 36.6
229 22.7 15.7 23.5

Manual Integrations
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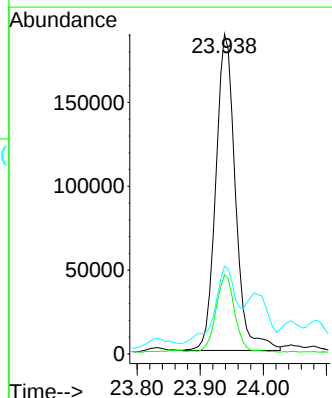
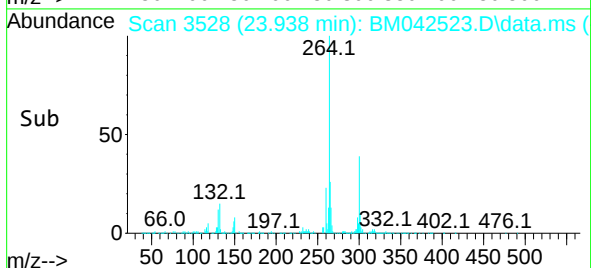
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

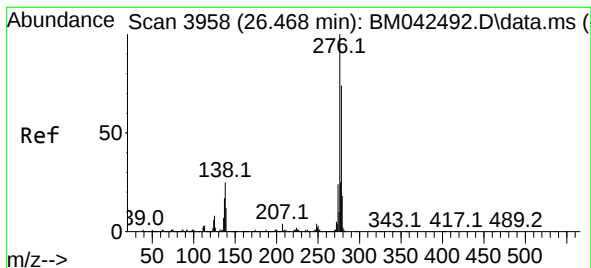


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.938 min Scan# 3528
Delta R.T. 0.006 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35



Tgt Ion:264 Resp: 406806
Ion Ratio Lower Upper
264 100
260 24.7 19.0 28.4
265 27.4 18.7 28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 109.440 ng

RT: 26.497 min Scan# 3958

Delta R.T. 0.029 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)

Tgt Ion:276 Resp: 264976

Ion Ratio Lower Upper

276 100

138 16.4 20.6 31.0

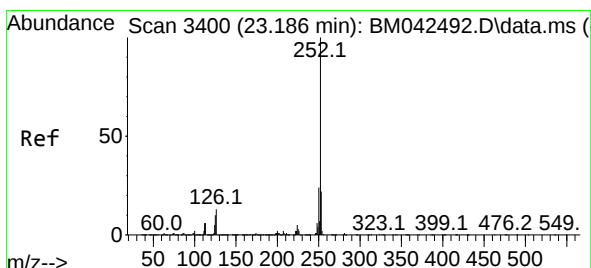
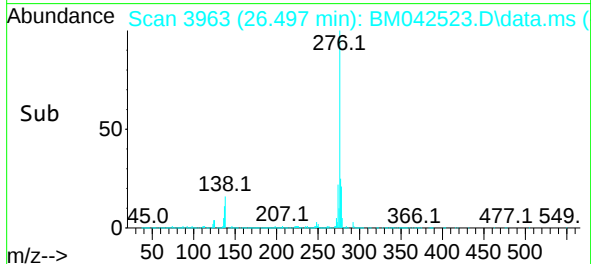
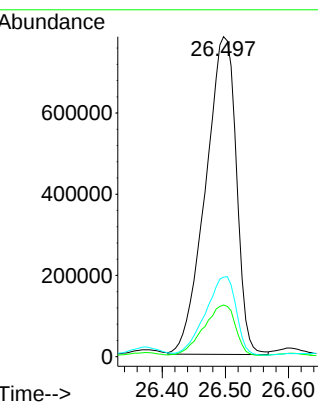
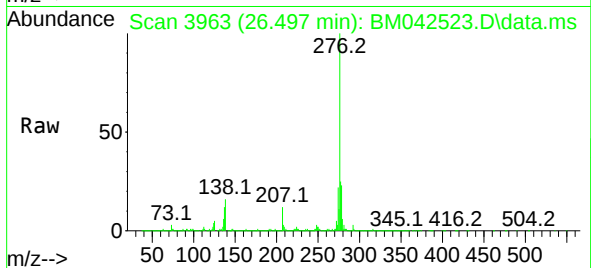
277 24.6 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#88

Benzo(b)fluoranthene

Concen: 235.688 ng

RT: 23.209 min Scan# 3404

Delta R.T. 0.023 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

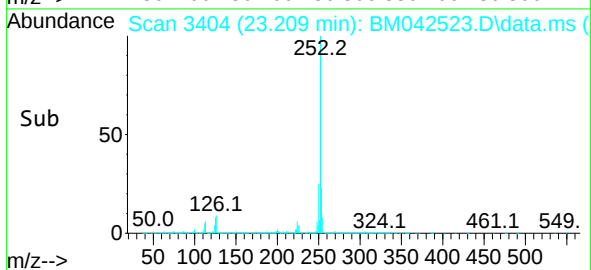
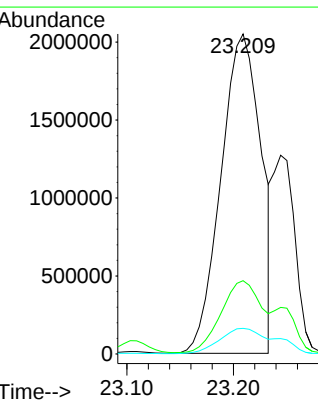
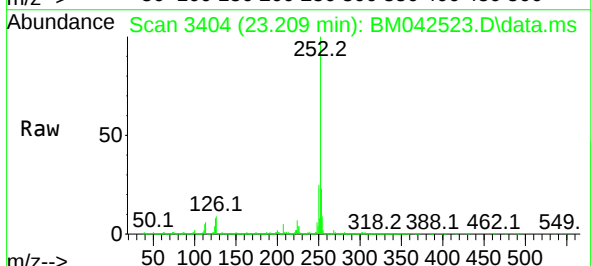
Tgt Ion:252 Resp: 5341634

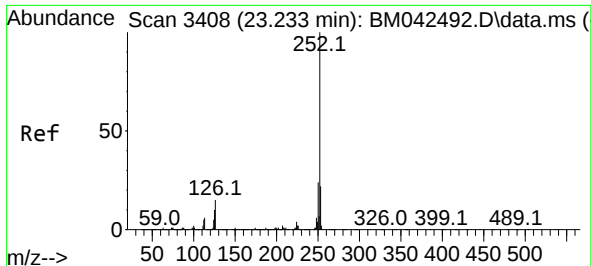
Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 8.0 7.8 11.6





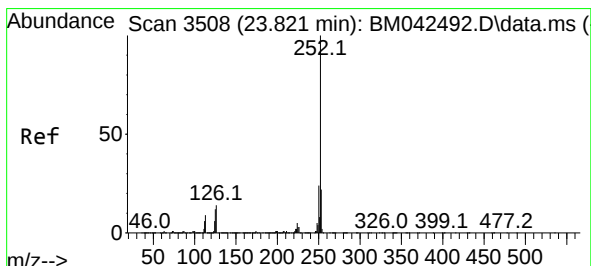
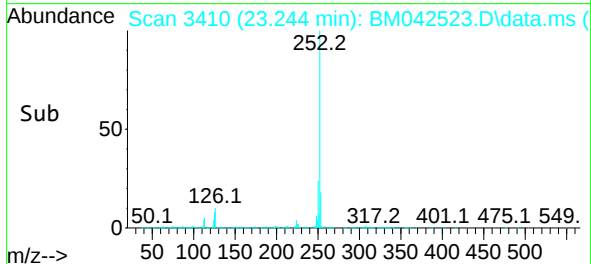
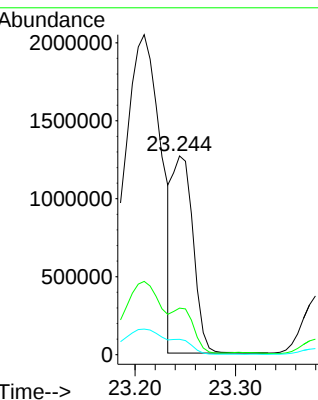
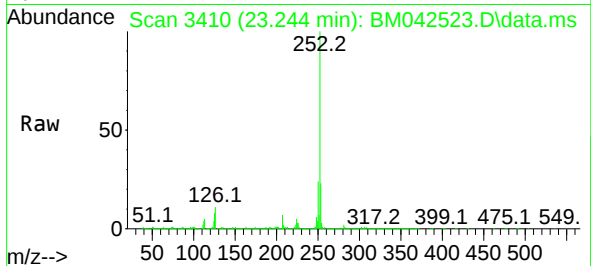
#89
Benzo(k)fluoranthene
Concen: 72.034 ng m
RT: 23.244 min Scan# 3408
Delta R.T. 0.012 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)

Tgt Ion:252 Resp: 1819200
Ion Ratio Lower Upper
252 100
253 23.5 17.6 26.4
125 7.7 8.2 12.4

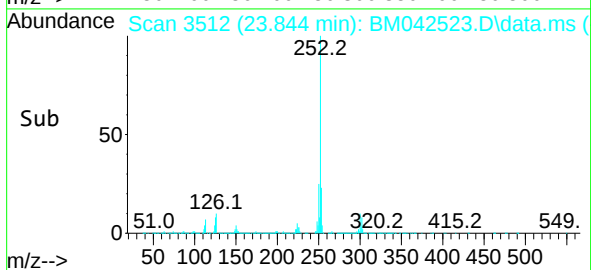
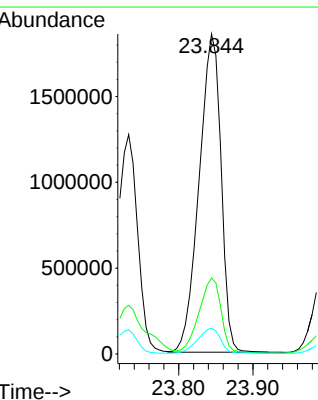
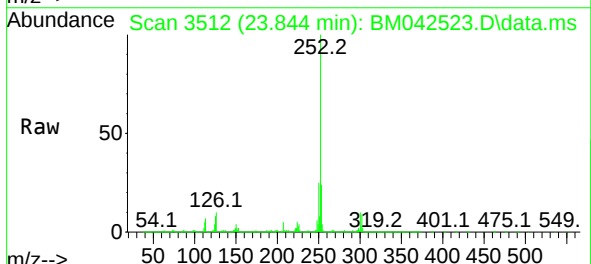
Manual Integrations
APPROVED

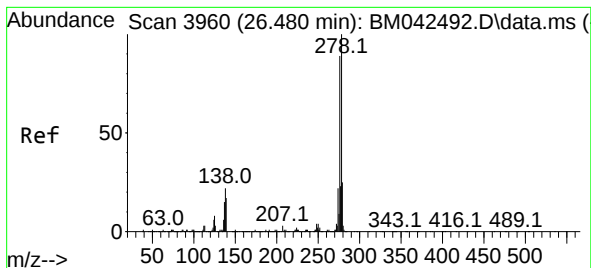
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#90
Benzo(a)pyrene
Concen: 170.249 ng m
RT: 23.844 min Scan# 3512
Delta R.T. 0.023 min
Lab File: BM042523.D
Acq: 31 Oct 2023 22:35

Tgt Ion:252 Resp: 3798796
Ion Ratio Lower Upper
252 100
253 23.8 17.5 26.3
125 8.1 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 30.393 ng m

RT: 26.503 min Scan# 3964

Delta R.T. 0.023 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)

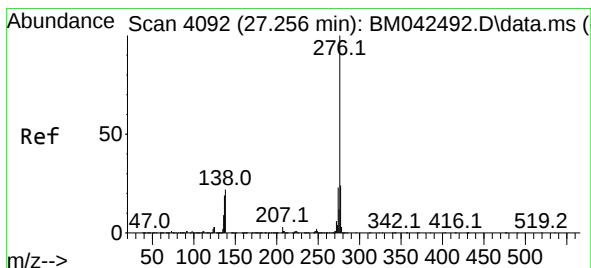
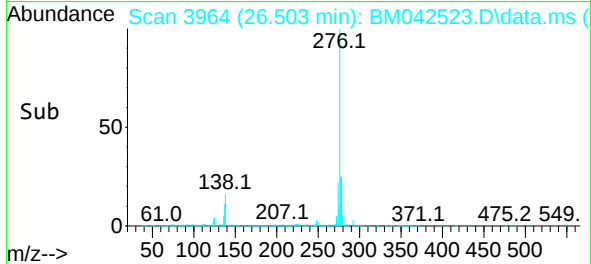
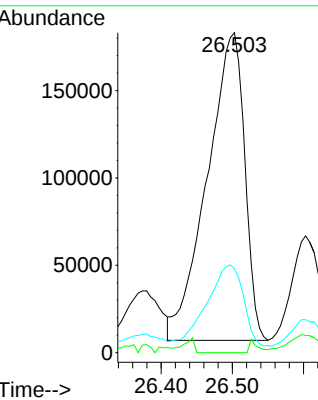
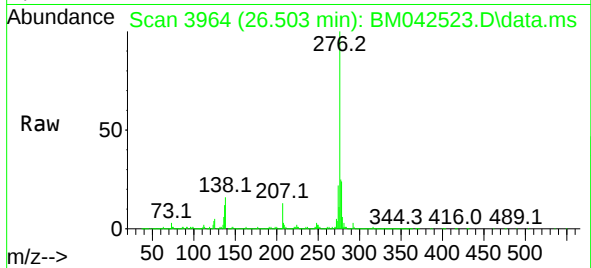
Tgt Ion:278 Resp: 642220
 Ion Ratio Lower Upper
 278 100
 139 0.0 13.4 20.2
 279 26.2 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#92

Benzo(g,h,i)perylene

Concen: 120.489 ng

RT: 27.297 min Scan# 4099

Delta R.T. 0.041 min

Lab File: BM042523.D

Acq: 31 Oct 2023 22:35

Tgt Ion:276 Resp: 2571175
 Ion Ratio Lower Upper
 276 100
 277 24.2 19.2 28.8
 138 17.2 17.3 25.9

