

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM111023\
 Data File : BM042700.D
 Acq On : 10 Nov 2023 20:22
 Operator : MA/JU
 Sample : 05253-04 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 L-3(195FT)(0-5)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2023
 Supervised By :mohammad ahmed 11/16/2023

Quant Time: Nov 10 23:05:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 09 13:21:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.845	152	58179	20.000	ng	0.00
21) Naphthalene-d8	10.663	136	235494	20.000	ng	0.00
39) Acenaphthene-d10	14.504	164	158349	20.000	ng	0.00
64) Phenanthrene-d10	17.257	188	322732	20.000	ng	# 0.00
76) Chrysene-d12	21.444	240	254191	20.000	ng	# 0.00
86) Perylene-d12	23.821	264	271674	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	62506	17.339	ng	0.00
7) Phenol-d6	7.016	99	84537	17.099	ng	0.00
23) Nitrobenzene-d5	9.051	82	62721	12.416	ng	0.00
42) 2,4,6-Tribromophenol	16.004	330	40576	19.627	ng	0.00
45) 2-Fluorobiphenyl	13.121	172	149858	12.734	ng	0.00
79) Terphenyl-d14	19.874	244	208467	13.906	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.722	128	1790629	147.172	ng	100
37) 2-Methylnaphthalene	12.327	142	638841	74.555	ng	96
38) 1-Methylnaphthalene	12.545	142	408208m	50.612	ng	
46) 1,1'-Biphenyl	13.339	154	122473	10.118	ng	98
49) Acenaphthylene	14.233	152	160963	10.945	ng	98
52) Acenaphthene	14.568	154	260299	29.164	ng	99
55) Dibenzofuran	14.904	168	32494	2.239	ng	# 93
58) Fluorene	15.557	166	223539	19.038	ng	99
71) Phenanthrene	17.304	178	1359547	80.610	ng	100
72) Anthracene	17.392	178	334505	20.024	ng	98
75) Fluoranthene	19.315	202	508681	25.676	ng	97
78) Pyrene	19.686	202	920570	52.741	ng	99
81) Benzo(a)anthracene	21.427	228	299194	18.500	ng	95
83) Chrysene	21.480	228	277093	16.867	ng	96
87) Indeno(1,2,3-cd)pyrene	26.303	276	104803	6.482	ng	# 89
88) Benzo(b)fluoranthene	23.091	252	223820m	14.788	ng	
89) Benzo(k)fluoranthene	23.133	252	57617m	3.416	ng	
90) Benzo(a)pyrene	23.715	252	246143m	16.518	ng	
91) Dibenzo(a,h)anthracene	26.303	278	32356	6.119	ng	# 82
92) Benzo(g,h,i)perylene	27.079	276	120877	8.482	ng	# 93

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

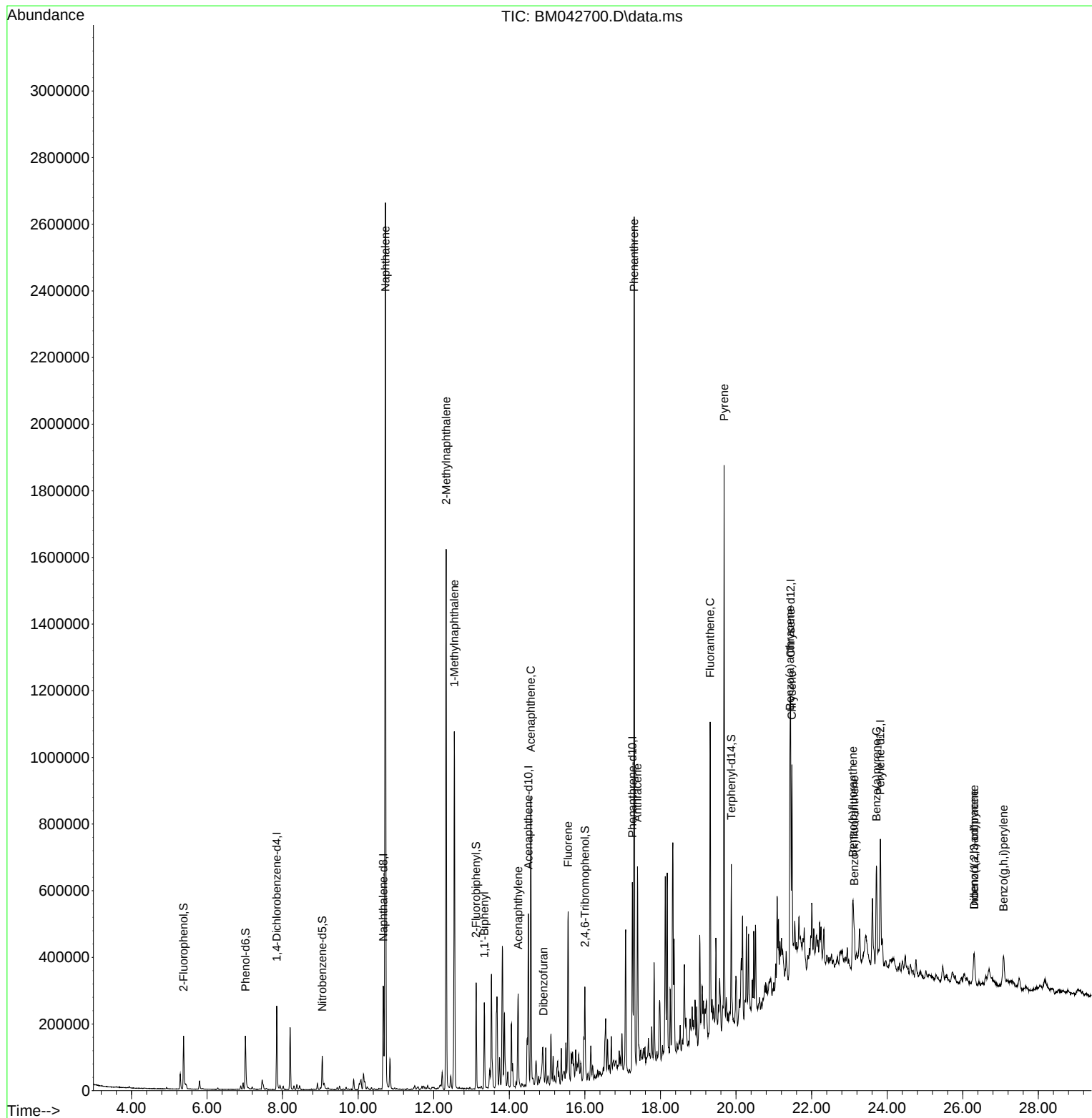
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM111023\
Data File : BM042700.D
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023





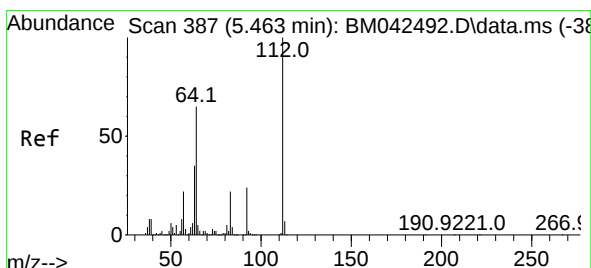
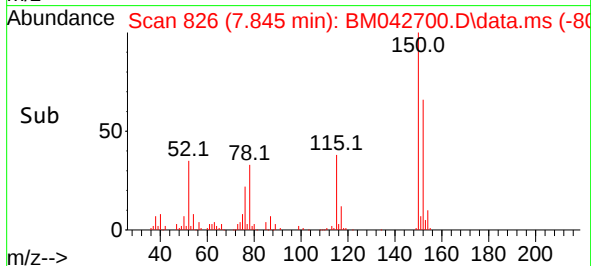
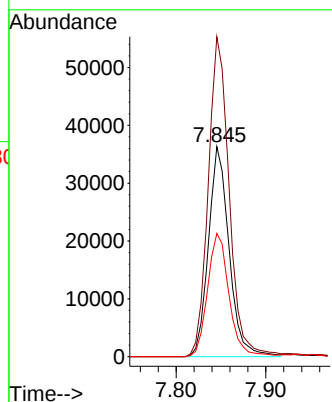
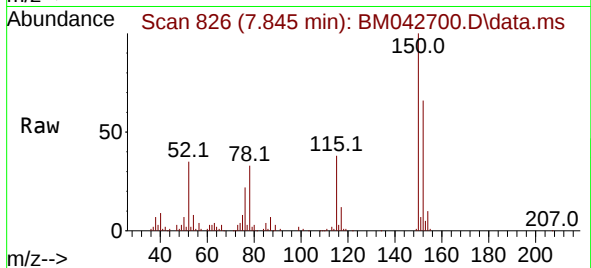
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.845 min Scan# 806
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

Instrument :
BNA_M
ClientSampleId :
L-3(195FT)(0-5)

Tgt Ion:152 Resp: 58179
Ion Ratio Lower Upper
152 100
150 152.3 127.4 191.0
115 58.6 47.9 71.9

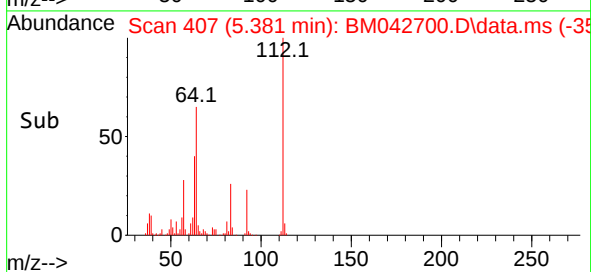
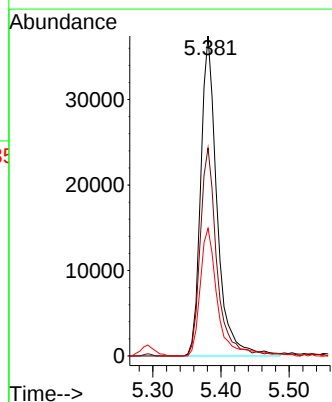
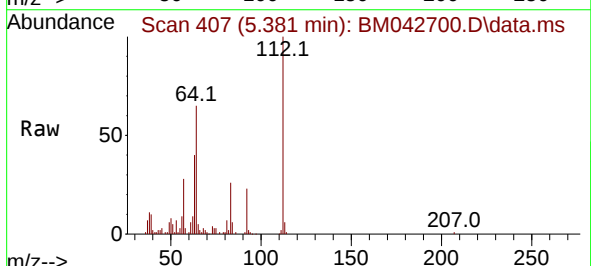
Manual Integrations
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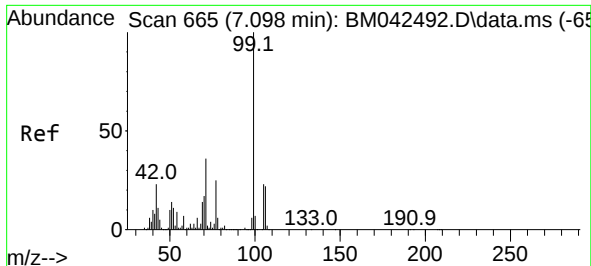
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#5
2-Fluorophenol
Concen: 17.339 ng
RT: 5.381 min Scan# 407
Delta R.T. 0.006 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

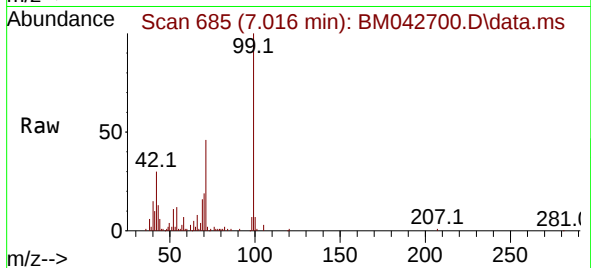
Tgt Ion:112 Resp: 62506
Ion Ratio Lower Upper
112 100
64 65.0 52.1 78.1
63 39.9 28.3 42.5





#7
Phenol-d6
Concen: 17.099 ng
RT: 7.016 min Scan# 60
Delta R.T. 0.006 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

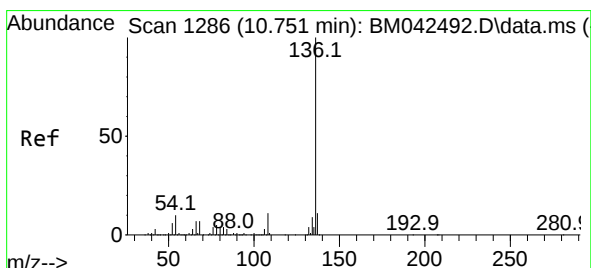
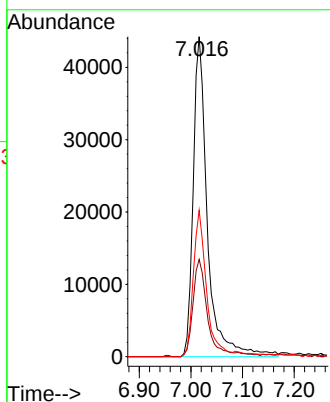
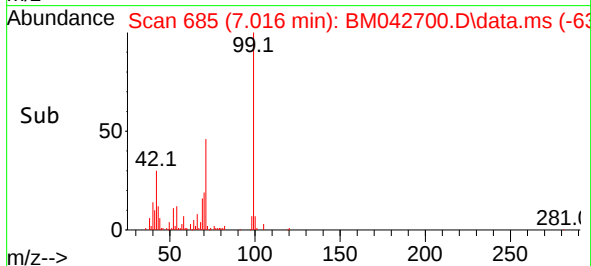
Instrument :
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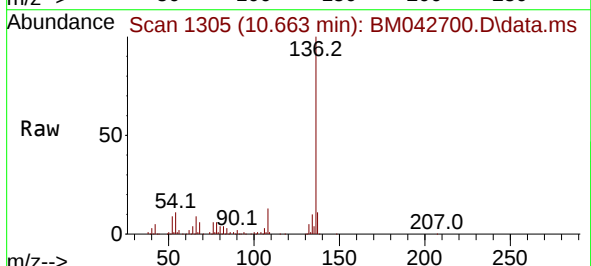
Tgt Ion: 99 Resp: 8453
Ion Ratio Lower Upper
99 100
42 30.4 18.7 28.1
71 45.8 29.1 43.7

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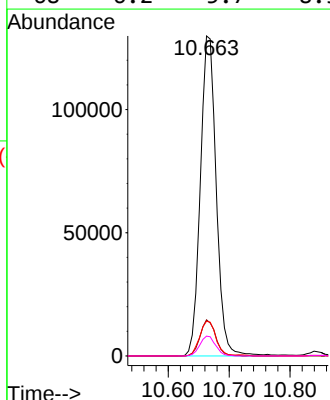
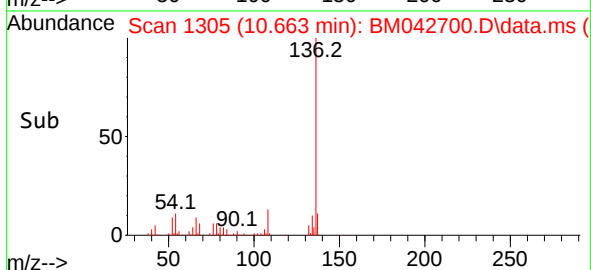
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023

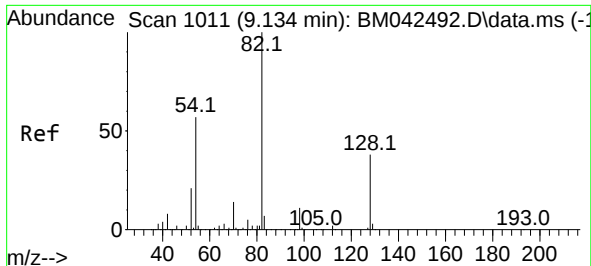


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22



Tgt Ion:136 Resp: 235494
Ion Ratio Lower Upper
136 100
137 11.3 9.0 13.6
54 10.8 8.0 12.0
68 6.2 5.7 8.5





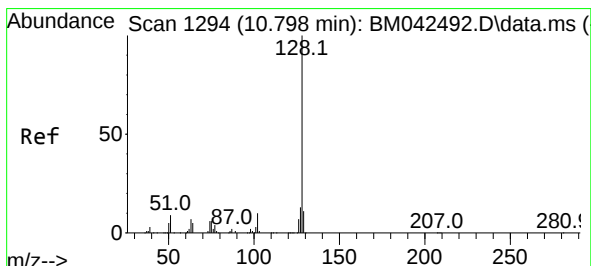
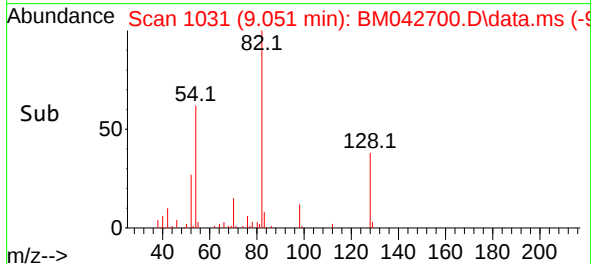
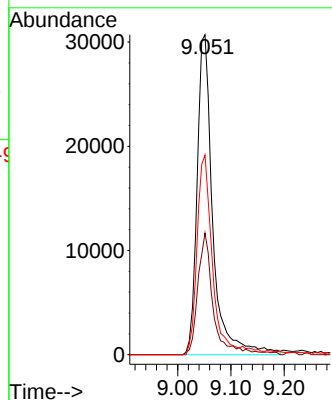
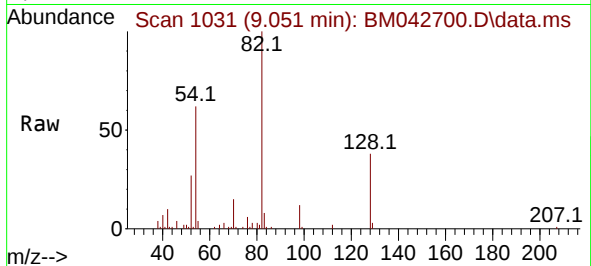
#23
Nitrobenzene-d5
Concen: 12.416 ng
RT: 9.051 min Scan# 1011
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

Instrument :
BNA_M
ClientSampleId :
L-3(195FT)(0-5)

Tgt Ion: 82 Resp: 6272
Ion Ratio Lower Upper
82 100
128 38.0 30.7 46.1
54 62.4 45.3 67.9

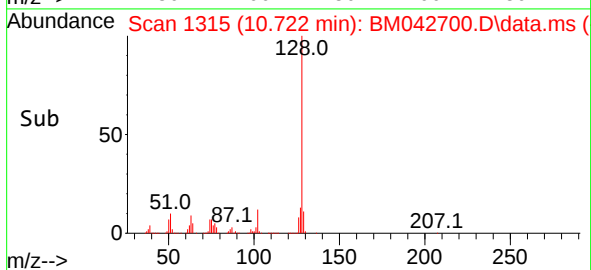
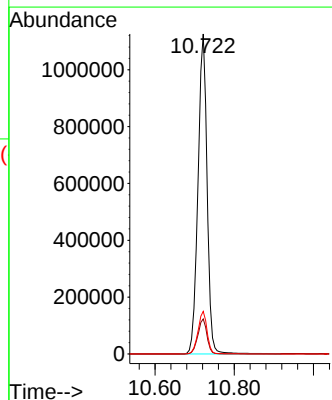
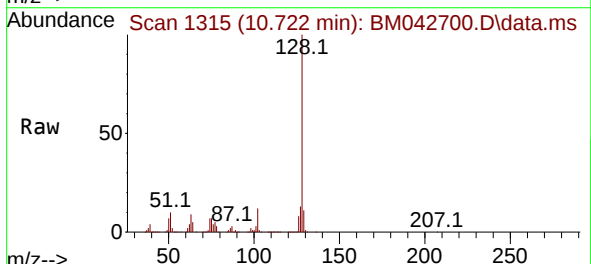
Manual Integrations
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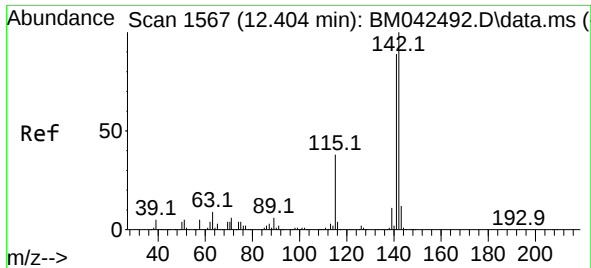
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#31
Naphthalene
Concen: 147.172 ng
RT: 10.722 min Scan# 1315
Delta R.T. 0.006 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

Tgt Ion:128 Resp: 1790629
Ion Ratio Lower Upper
128 100
129 11.0 8.8 13.2
127 13.3 10.6 15.8





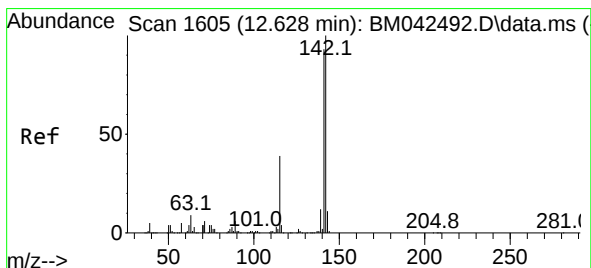
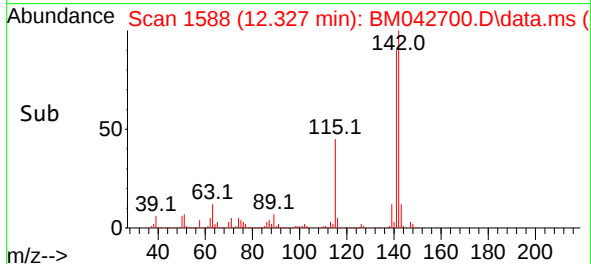
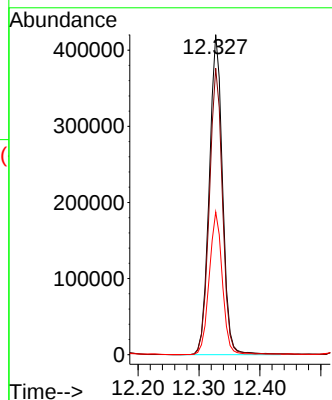
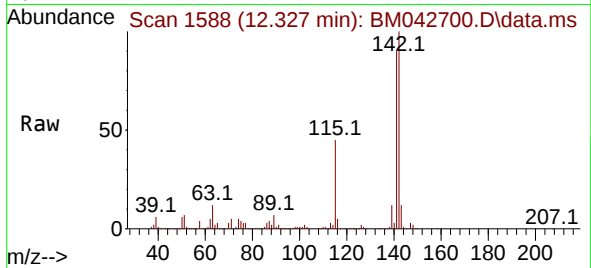
#37
2-Methylnaphthalene
Concen: 74.555 ng
RT: 12.327 min Scan# 11
Delta R.T. 0.006 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

Instrument :
BNA_M
ClientSampleId :
L-3(195FT)(0-5)

Tgt Ion:142 Resp: 63884
Ion Ratio Lower Upper
142 100
141 89.5 70.9 106.3
115 44.6 30.2 45.2

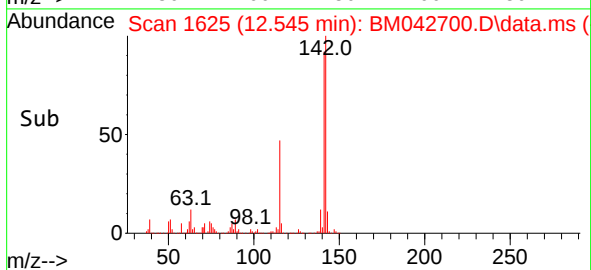
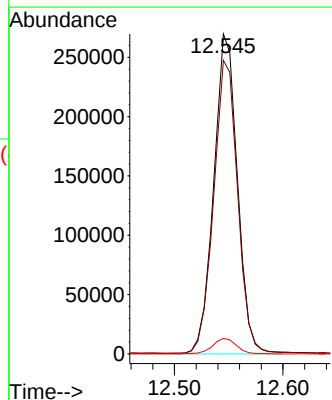
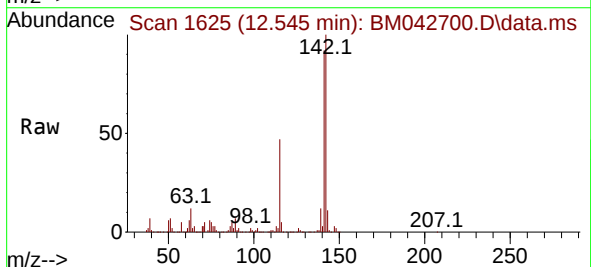
Manual Integrations
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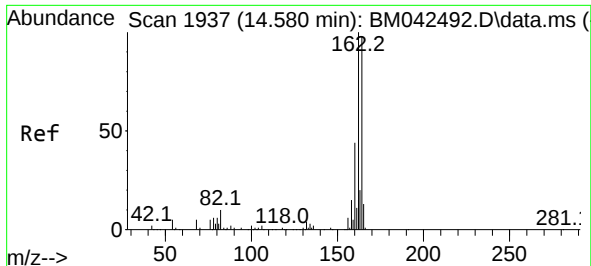
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#38
1-Methylnaphthalene
Concen: 50.612 ng m
RT: 12.545 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

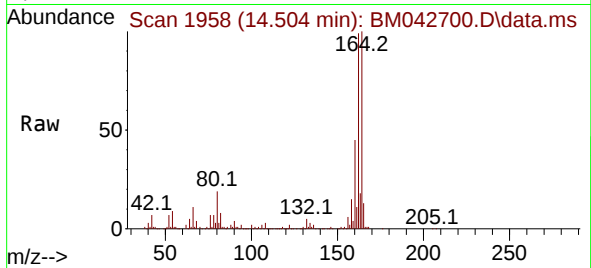
Tgt Ion:142 Resp: 408208
Ion Ratio Lower Upper
142 100
141 91.8 74.4 111.6
116 4.8 3.2 4.8#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.504 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

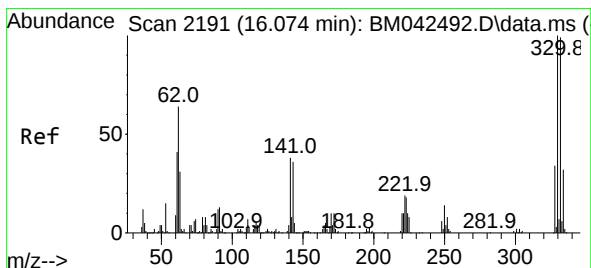
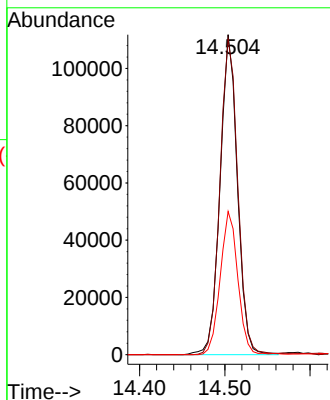
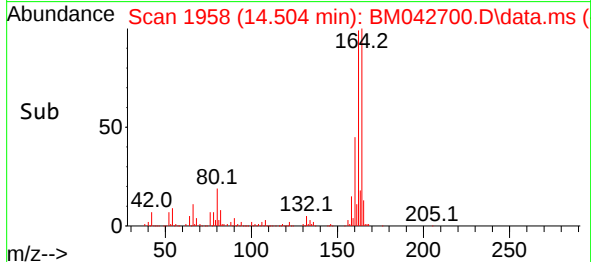
Instrument :
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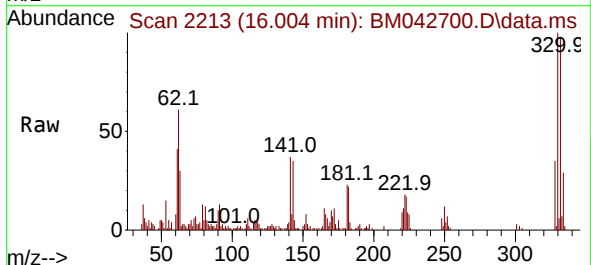
Tgt Ion:164 Resp: 158349
Ion Ratio Lower Upper
164 100
162 98.7 81.6 122.4
160 44.8 36.2 54.4

Manual Integrations
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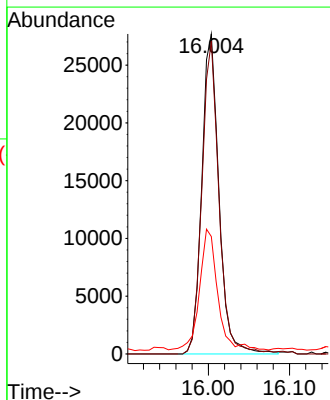
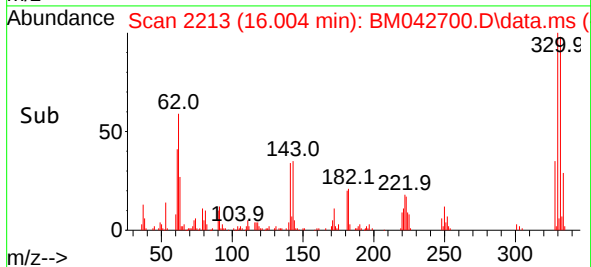
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023

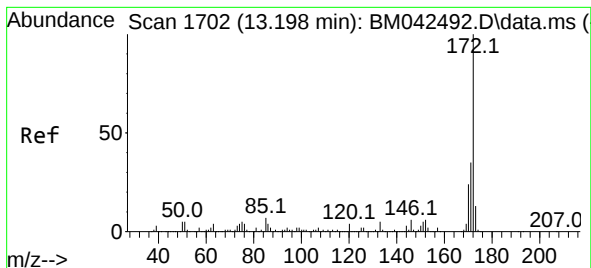


#42
2,4,6-Tribromophenol
Concen: 19.627 ng
RT: 16.004 min Scan# 2213
Delta R.T. 0.006 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22



Tgt Ion:330 Resp: 40576
Ion Ratio Lower Upper
330 100
332 97.1 78.8 118.2
141 39.6 31.1 46.7





#45

2-Fluorobiphenyl

Concen: 12.734 ng

RT: 13.121 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM042700.D

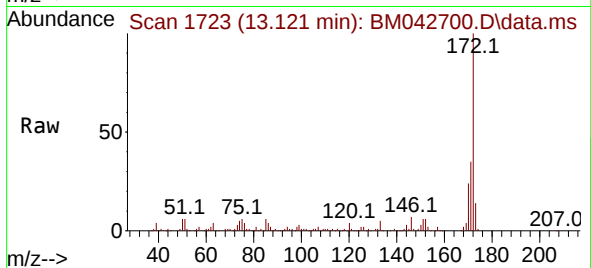
Acq: 10 Nov 2023 20:22

Instrument :

BNA_M

ClientSampleId :

L-3(195FT)(0-5)



Tgt Ion:172 Resp: 14985

Ion Ratio Lower Upper

172 100

171 35.2 28.2 42.2

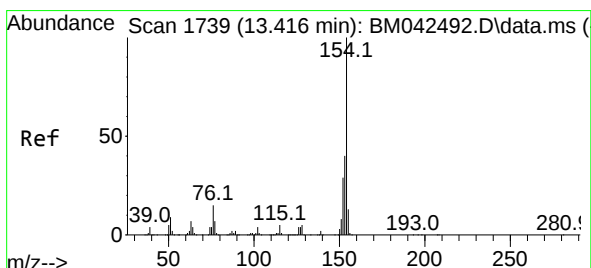
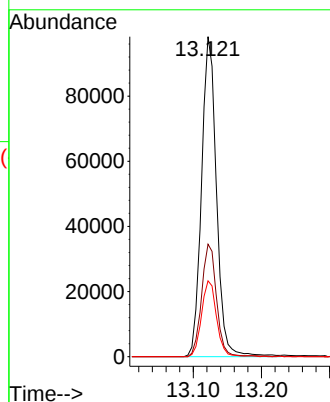
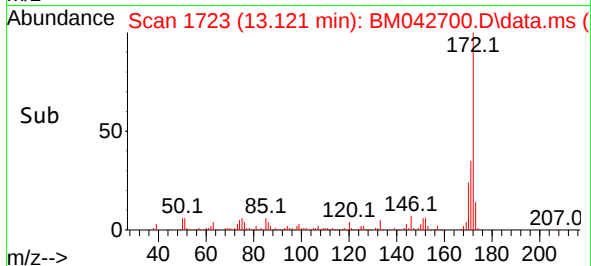
170 23.7 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2023

Supervised By :mohammad ahmed 11/16/2023



#46

1,1'-Biphenyl

Concen: 10.118 ng

RT: 13.339 min Scan# 1760

Delta R.T. 0.000 min

Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

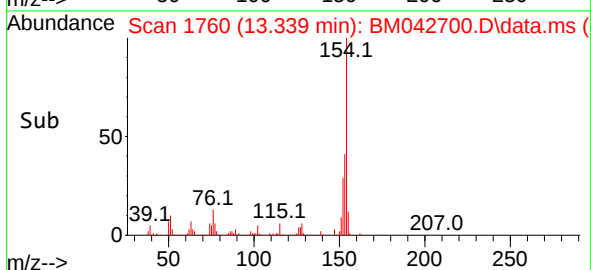
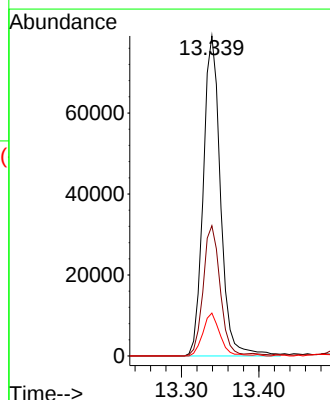
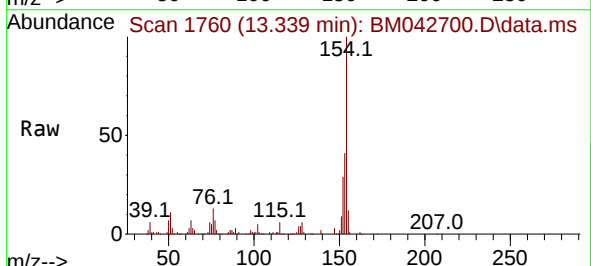
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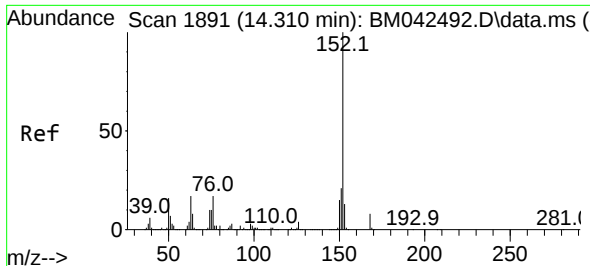
Ion Ratio Lower Upper

154 100

153 40.7 20.3 60.3

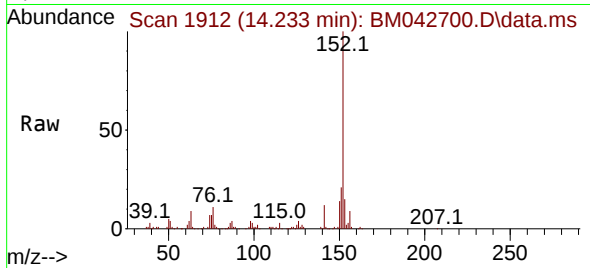
76 13.4 0.0 35.0





#49
Acenaphthylene
Concen: 10.945 ng
RT: 14.233 min Scan# 1912
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

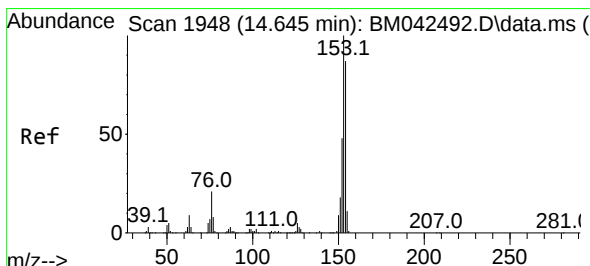
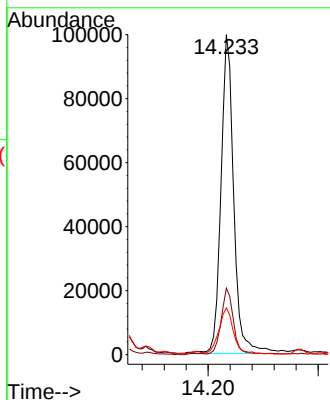
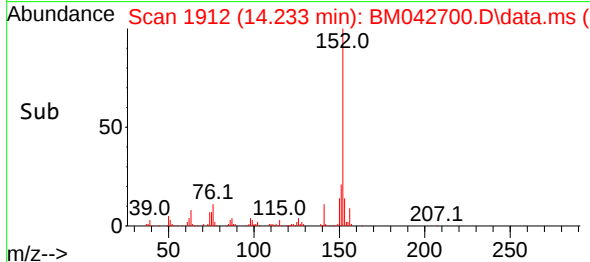
Instrument :
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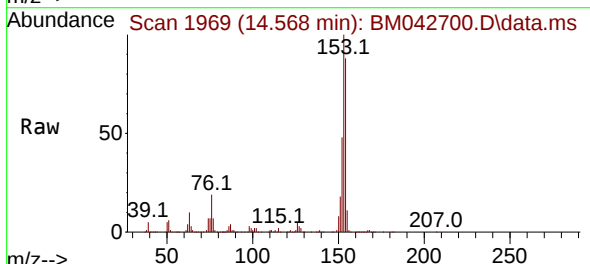
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Ion Ratio Lower Upper
152 100
151 20.8 16.4 24.6
153 14.6 10.4 15.6

Manual Integrations
APPROVED

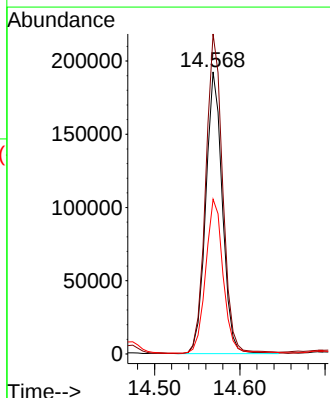
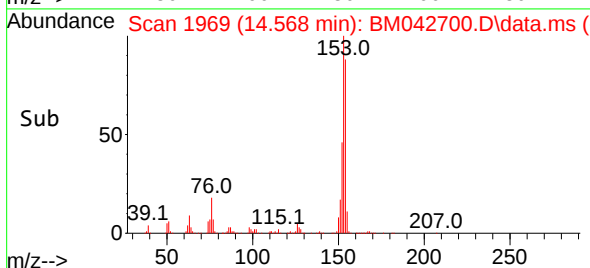
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023

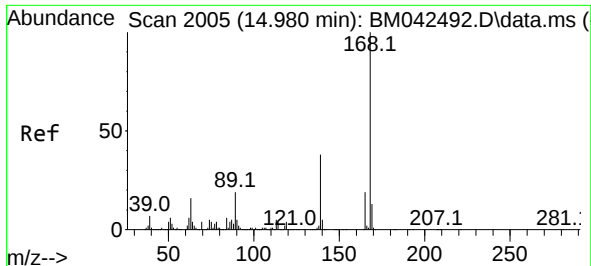


#52
Acenaphthene
Concen: 29.164 ng
RT: 14.568 min Scan# 1969
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22



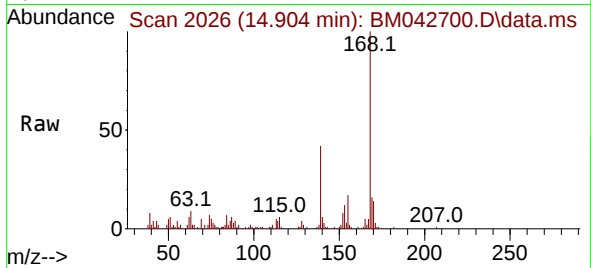
Tgt Ion:154 Resp: 260299
Ion Ratio Lower Upper
154 100
153 113.4 92.0 138.0
152 54.8 44.0 66.0





#55
Dibenzenofuran
Concen: 2.239 ng
RT: 14.904 min Scan# 2005
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

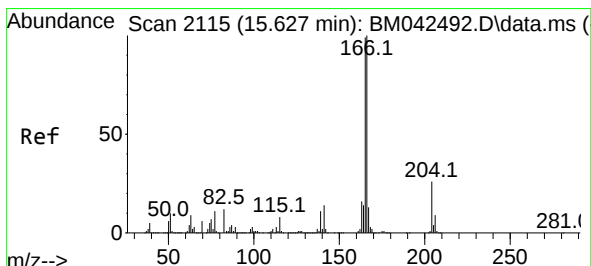
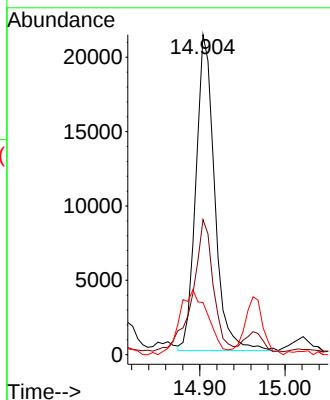
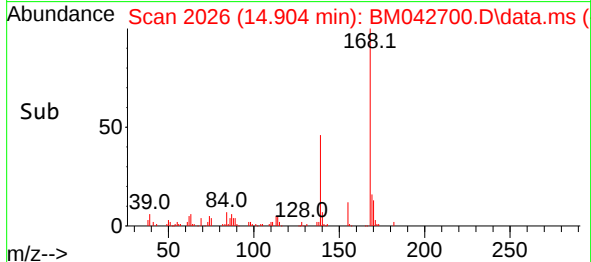
Instrument :
BNA_M
ClientSampleId :
L-3(195FT)(0-5)



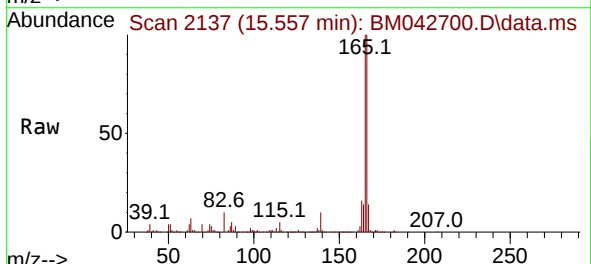
Tgt Ion:168 Resp: 32494
Ion Ratio Lower Upper
168 100
139 42.2 30.4 45.6
169 16.3 10.6 15.8

Manual Integrations
APPROVED

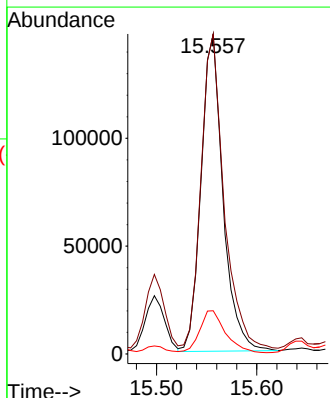
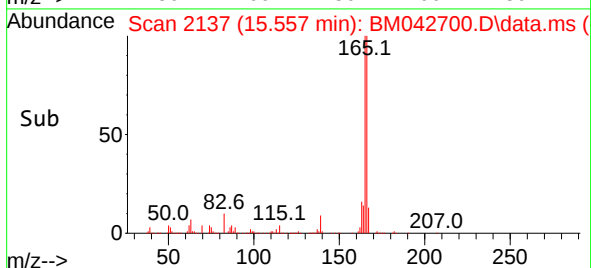
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023

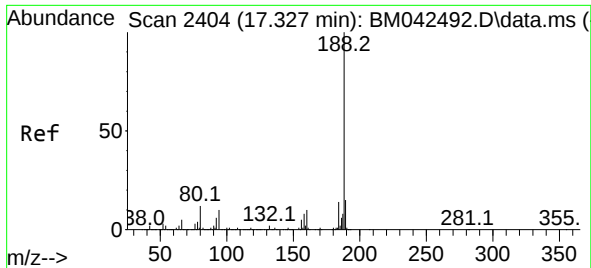


#58
Fluorene
Concen: 19.038 ng
RT: 15.557 min Scan# 2137
Delta R.T. 0.006 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22



Tgt Ion:166 Resp: 223539
Ion Ratio Lower Upper
166 100
165 100.0 79.3 118.9
167 13.5 10.5 15.7





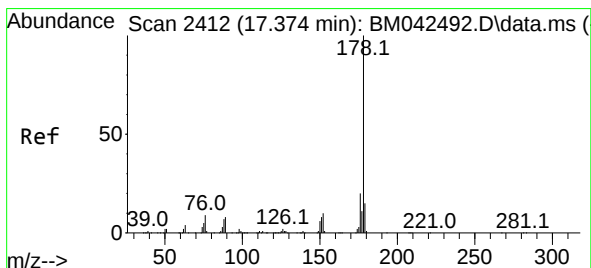
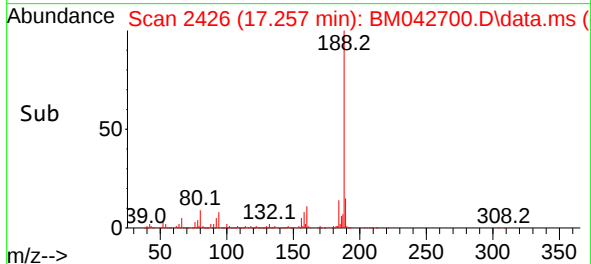
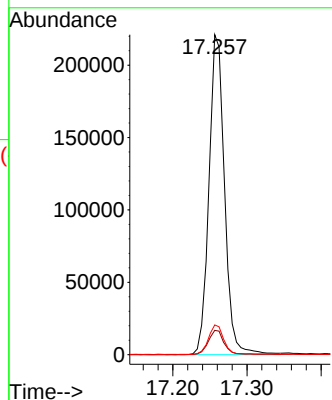
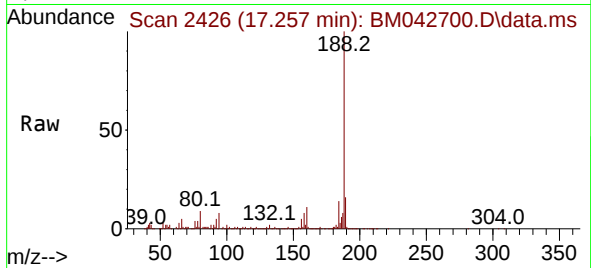
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.257 min Scan# 2404
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

Instrument :
BNA_M
ClientSampleId :
L-3(195FT)(0-5)

Tgt Ion:188 Resp: 32273
Ion Ratio Lower Upper
188 100
94 7.6 8.2 12.4
80 9.3 9.4 14.2

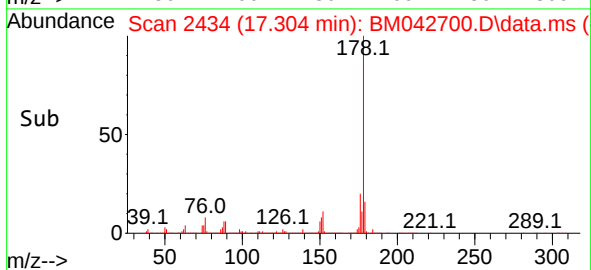
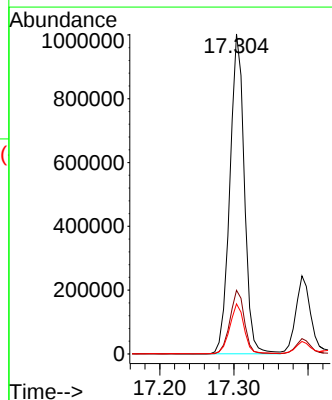
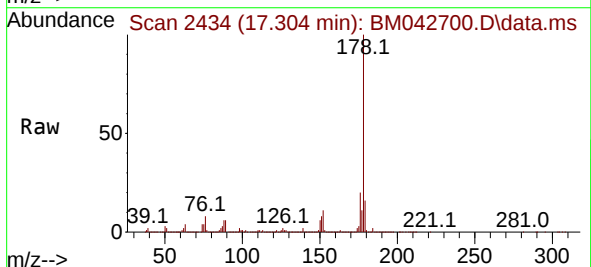
Manual Integrations
APPROVED

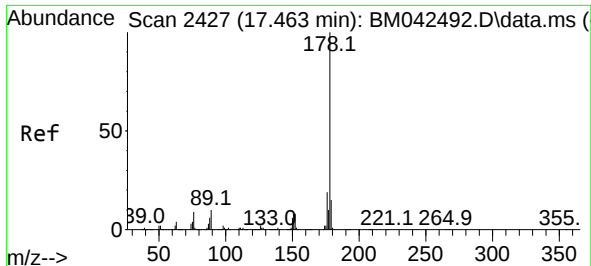
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#71
Phenanthrene
Concen: 80.610 ng
RT: 17.304 min Scan# 2434
Delta R.T. 0.006 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

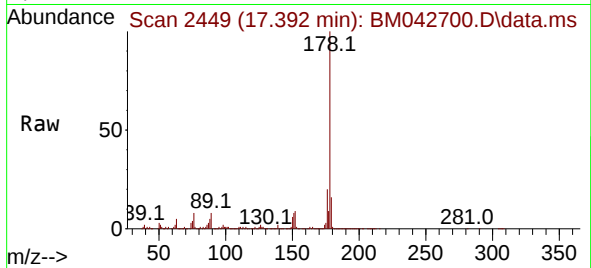
Tgt Ion:178 Resp: 1359547
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.8
179 15.7 12.2 18.4





#72
 Anthracene
 Concen: 20.024 ng
 RT: 17.392 min Scan# 2427
 Delta R.T. 0.000 min
 Lab File: BM042700.D
 Acq: 10 Nov 2023 20:22

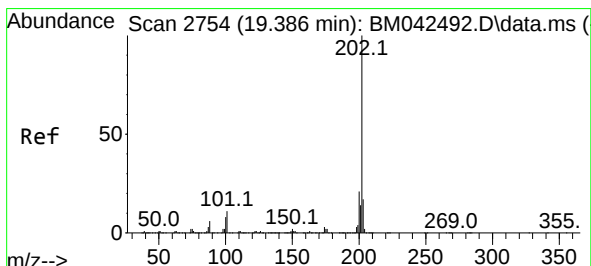
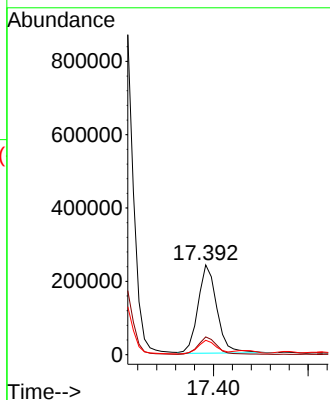
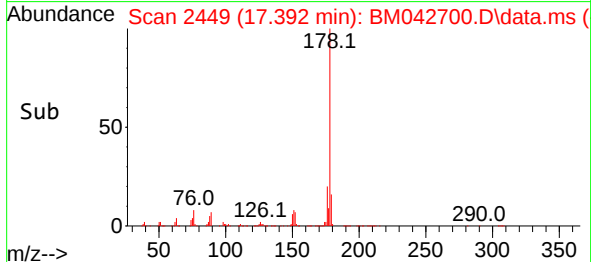
Instrument :
 BNA_M
 ClientSampleId :
 L-3(195FT)(0-5)



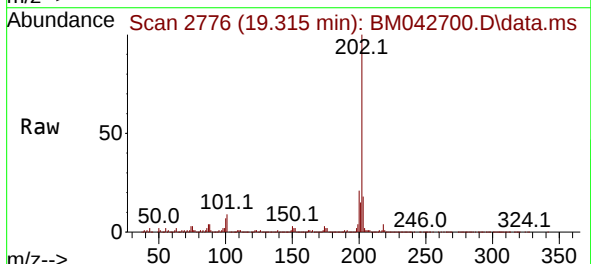
Tgt Ion:178 Resp: 33450
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.2 22.8
 179 16.0 12.3 18.5

Manual Integrations
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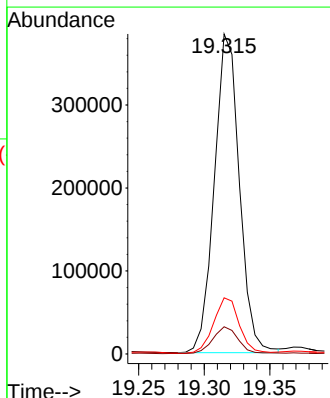
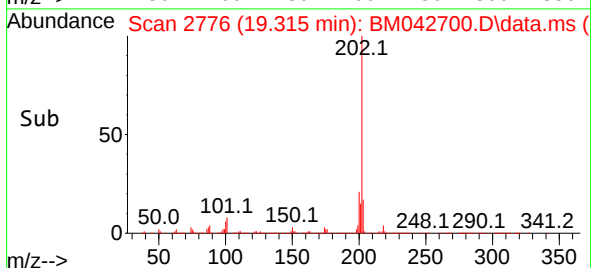
Reviewed By :Yogesh Patel 11/14/2023
 Supervised By :mohammad ahmed 11/16/2023

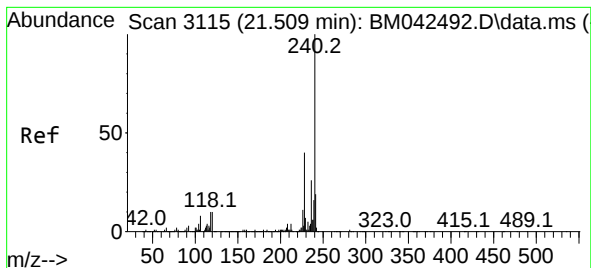


#75
 Fluoranthene
 Concen: 25.676 ng
 RT: 19.315 min Scan# 2776
 Delta R.T. 0.000 min
 Lab File: BM042700.D
 Acq: 10 Nov 2023 20:22



Tgt Ion:202 Resp: 508681
 Ion Ratio Lower Upper
 202 100
 101 8.5 0.0 30.5
 203 17.6 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.444 min Scan# 3115

Delta R.T. 0.006 min

Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

Instrument :

BNA_M

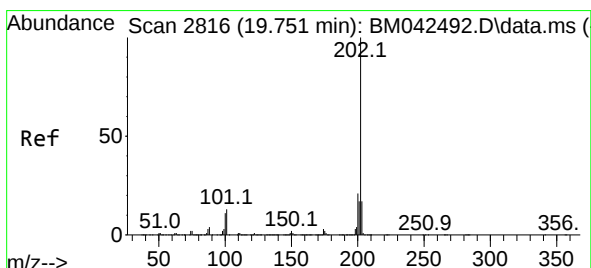
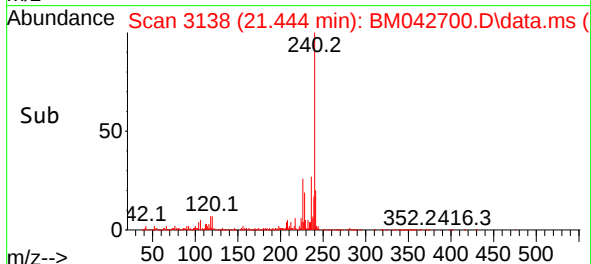
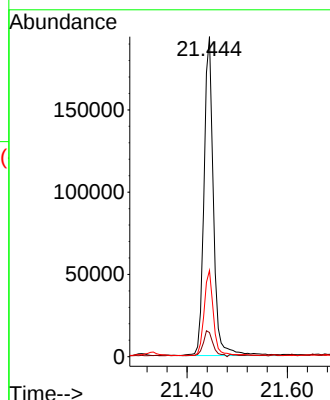
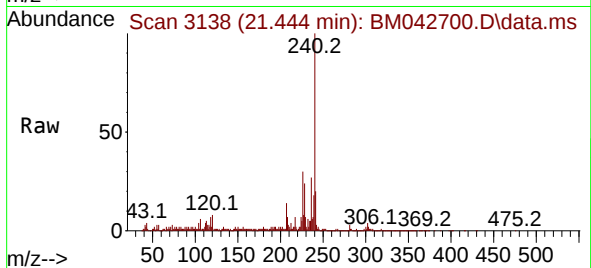
ClientSampleId :

L-3(195FT)(0-5)

Tgt Ion:240 Resp: 25419
 Ion Ratio Lower Upper
 240 100
 120 7.5 8.3 12.5
 236 26.9 20.8 31.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2023
 Supervised By :mohammad ahmed 11/16/2023



#78

Pyrene

Concen: 52.741 ng

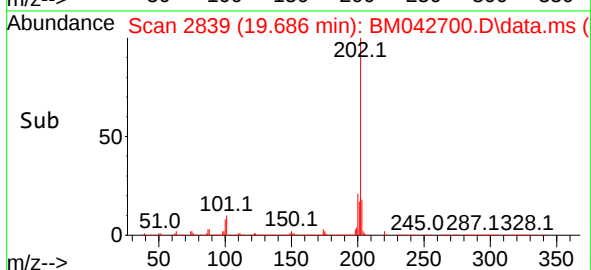
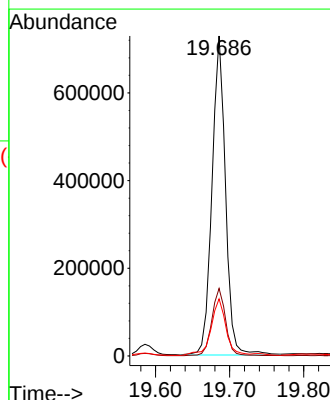
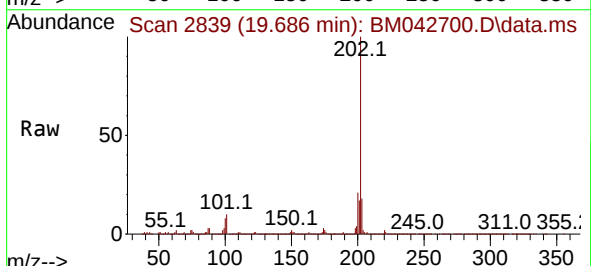
RT: 19.686 min Scan# 2839

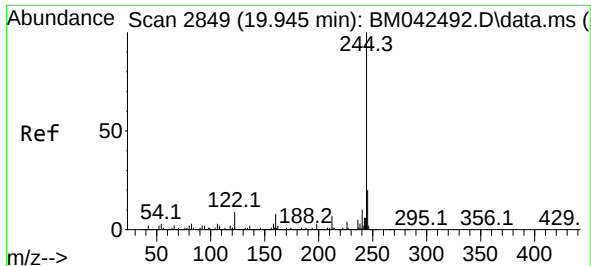
Delta R.T. 0.006 min

Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

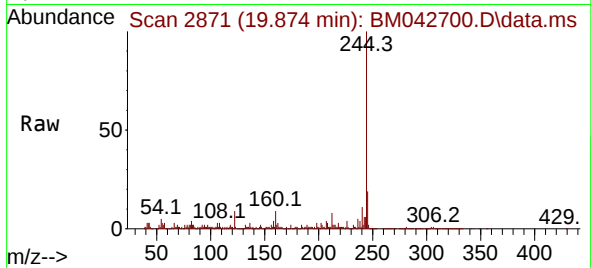
Tgt Ion:202 Resp: 920570
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.9 25.3
 203 17.8 13.7 20.5





#79
 Terphenyl-d14
 Concen: 13.906 ng
 RT: 19.874 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BM042700.D
 Acq: 10 Nov 2023 20:22

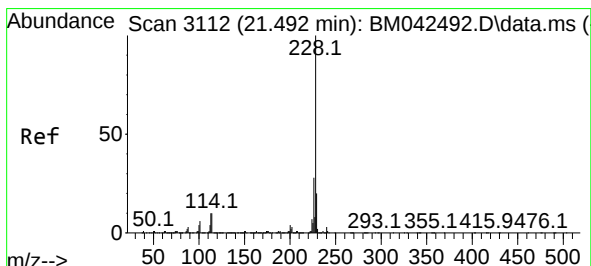
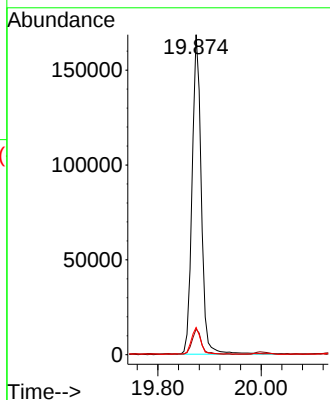
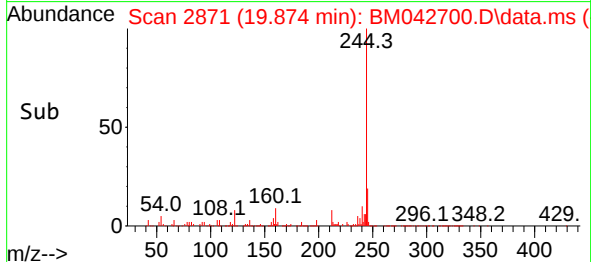
Instrument :
 BNA_M
 ClientSampleId :
 L-3(195FT)(0-5)



Tgt Ion:244 Resp: 20846
 Ion Ratio Lower Upper
 244 100
 212 8.0 5.4 8.2
 122 8.5 7.2 10.8

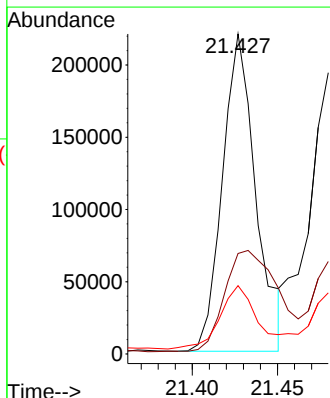
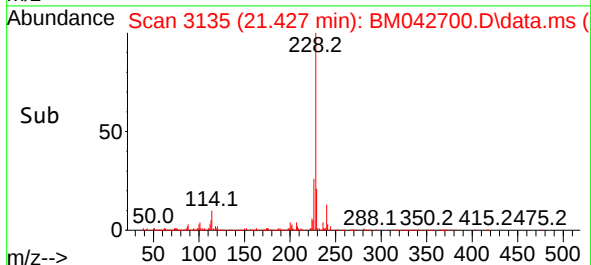
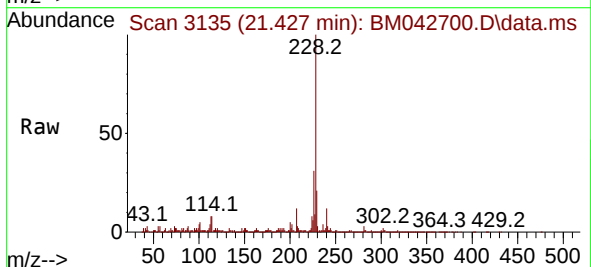
Manual Integrations
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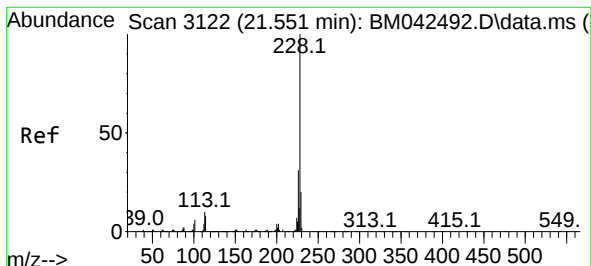
Reviewed By :Yogesh Patel 11/14/2023
 Supervised By :mohammad ahmed 11/16/2023



#81
 Benzo(a)anthracene
 Concen: 18.500 ng
 RT: 21.427 min Scan# 3135
 Delta R.T. 0.000 min
 Lab File: BM042700.D
 Acq: 10 Nov 2023 20:22

Tgt Ion:228 Resp: 299194
 Ion Ratio Lower Upper
 228 100
 226 31.4 22.3 33.5
 229 21.4 15.8 23.8





#83

Chrysene

Concen: 16.867 ng

RT: 21.480 min Scan# 3122

Delta R.T. 0.000 min

Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

Instrument :

BNA_M

ClientSampleId :

L-3(195FT)(0-5)

Tgt Ion:228 Resp: 27709

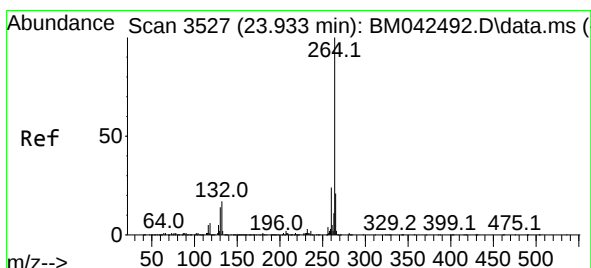
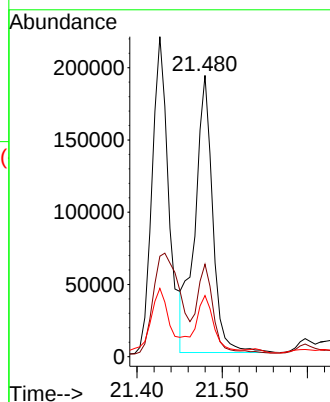
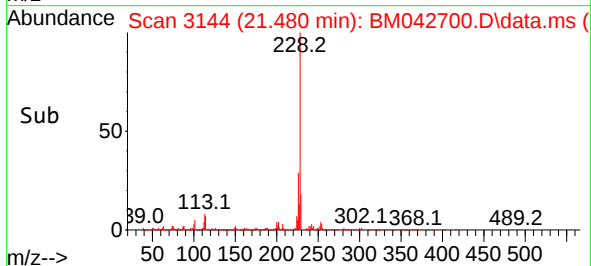
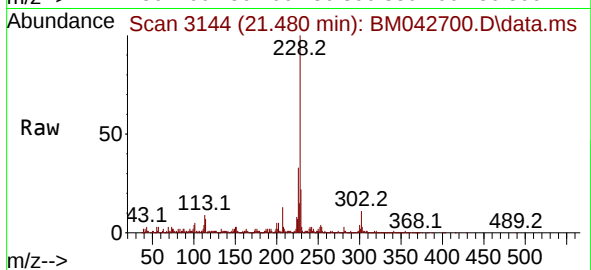
Ion	Ratio	Lower	Upper
228	100		
226	32.9	24.4	36.6
229	21.8	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2023

Supervised By :mohammad ahmed 11/16/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.821 min Scan# 3542

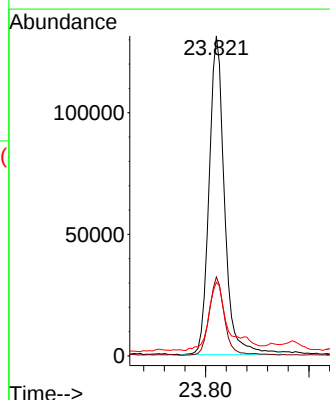
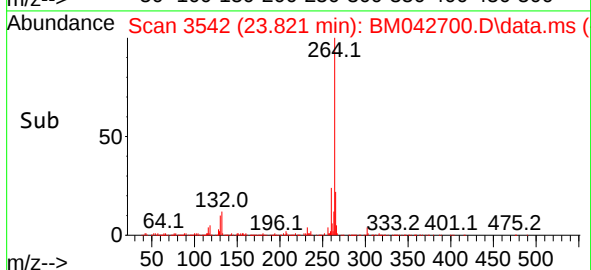
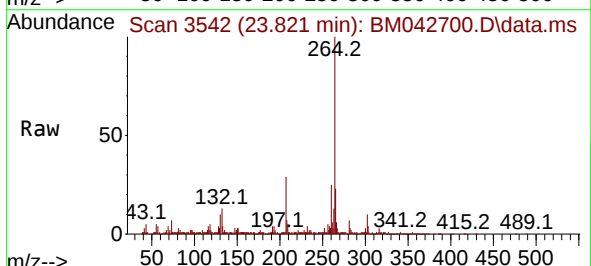
Delta R.T. 0.006 min

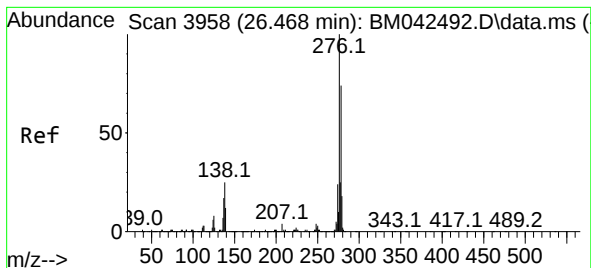
Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

Tgt Ion:264 Resp: 271674

Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.0	28.4
265	23.0	18.7	28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.482 ng

RT: 26.303 min Scan# 3958

Delta R.T. 0.000 min

Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

Instrument :

BNA_M

ClientSampleId :

L-3(195FT)(0-5)

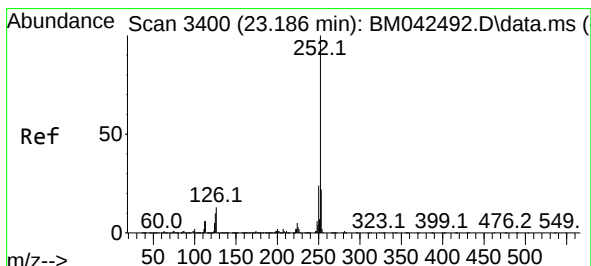
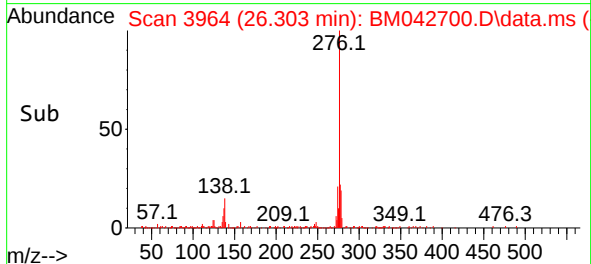
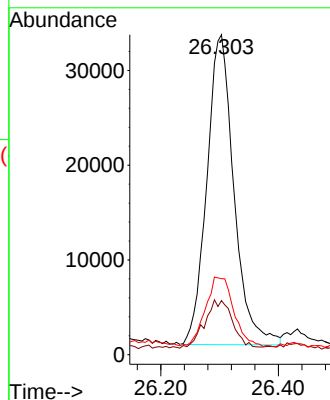
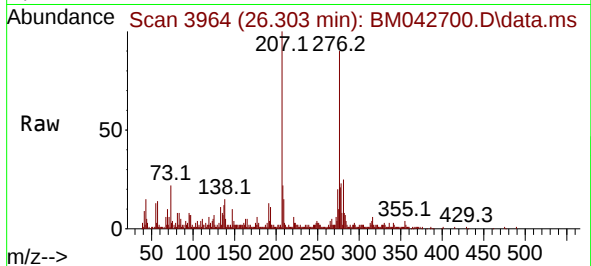
Tgt Ion:	276	Resp:	10480
Ion Ratio	Lower	Upper	
276	100		
138	15.9	20.6	31.0
277	23.7	19.5	29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2023

Supervised By :mohammad ahmed 11/16/2023



#88

Benzo(b)fluoranthene

Concen: 14.788 ng m

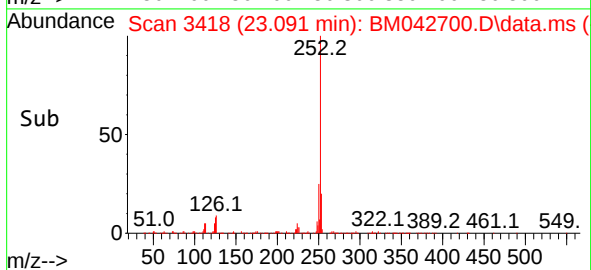
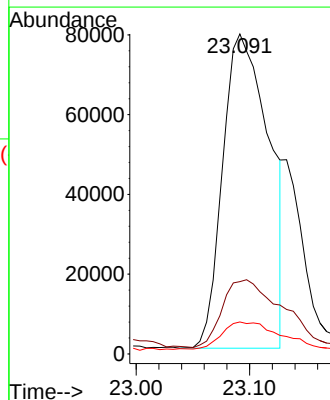
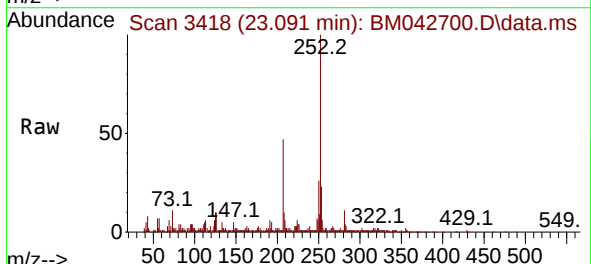
RT: 23.091 min Scan# 3418

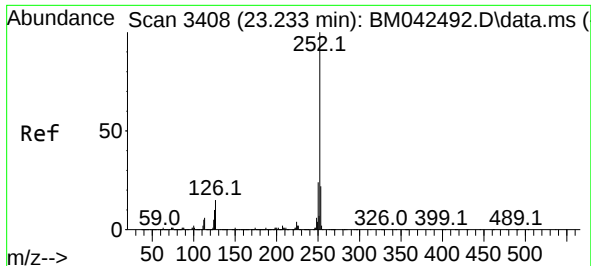
Delta R.T. 0.006 min

Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

Tgt Ion:	252	Resp:	223820
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.5	26.3
125	10.0	7.8	11.6





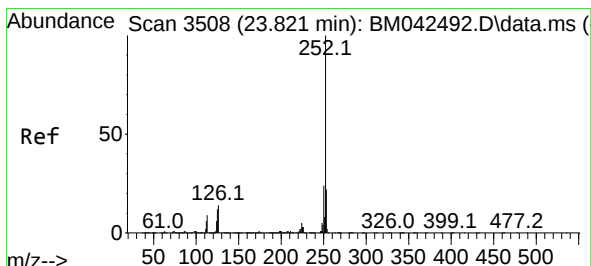
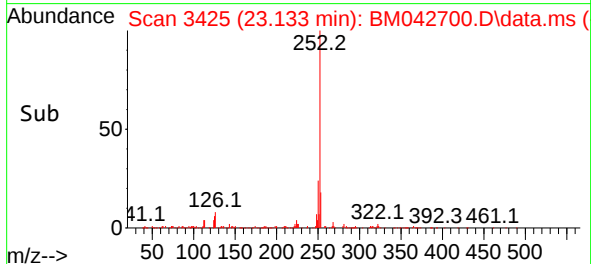
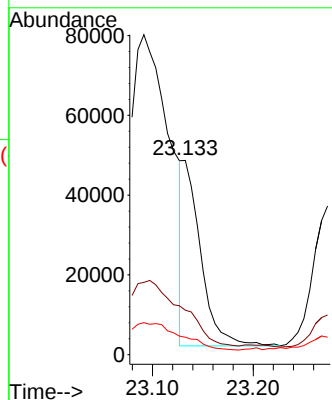
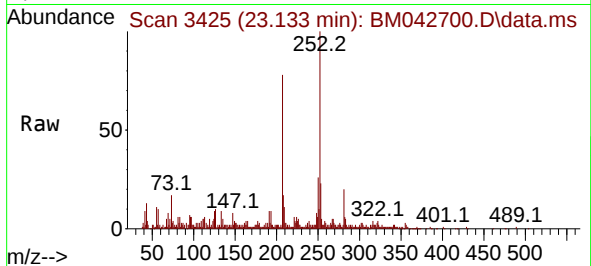
#89
Benzo(k)fluoranthene
Concen: 3.416 ng m
RT: 23.133 min Scan# 3408
Delta R.T. -0.006 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

Instrument :
BNA_M
ClientSampleId :
L-3(195FT)(0-5)

Tgt Ion:252 Resp: 5761
Ion Ratio Lower Upper
252 100
253 22.9 17.6 26.4
125 9.0 8.2 12.4

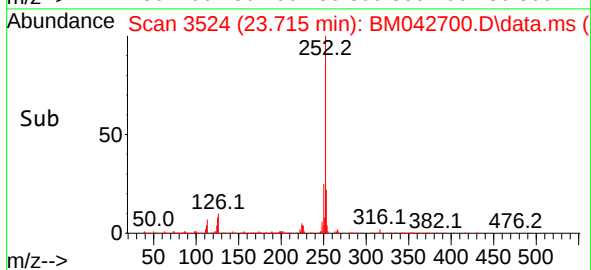
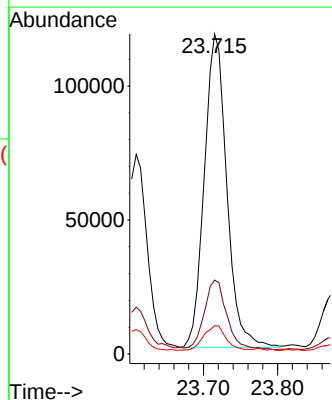
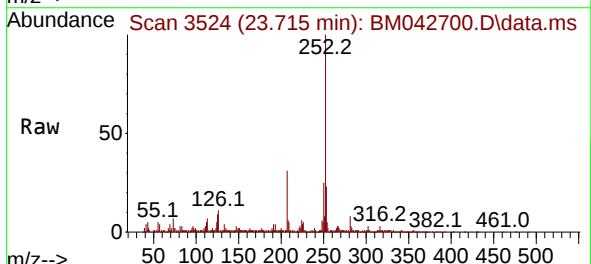
Manual Integrations
APPROVED

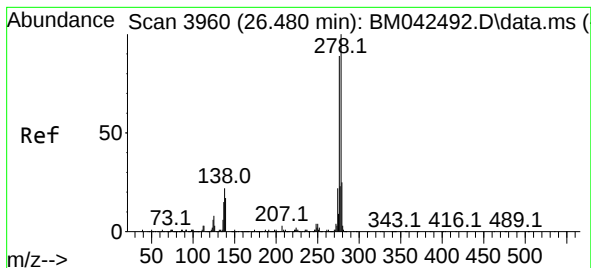
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#90
Benzo(a)pyrene
Concen: 16.518 ng m
RT: 23.715 min Scan# 3524
Delta R.T. 0.000 min
Lab File: BM042700.D
Acq: 10 Nov 2023 20:22

Tgt Ion:252 Resp: 246143
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 8.9 9.4 14.2#





#91

Dibenzo(a,h)anthracene

Concen: 6.119 ng

RT: 26.303 min Scan# 3964

Delta R.T. -0.012 min

Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

Instrument :

BNA_M

ClientSampleId :

L-3(195FT)(0-5)

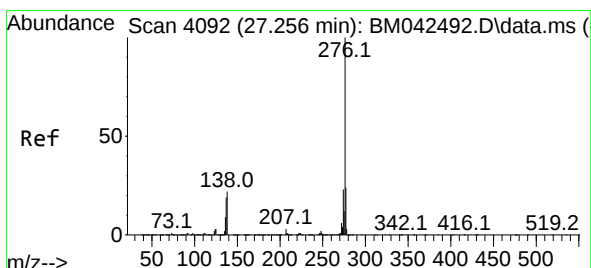
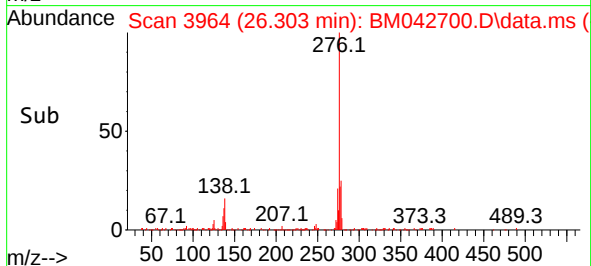
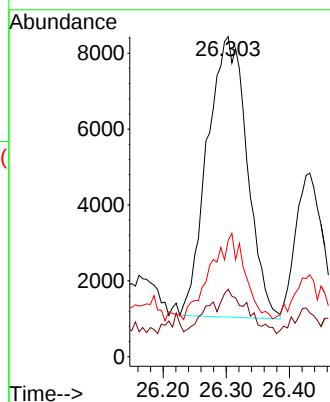
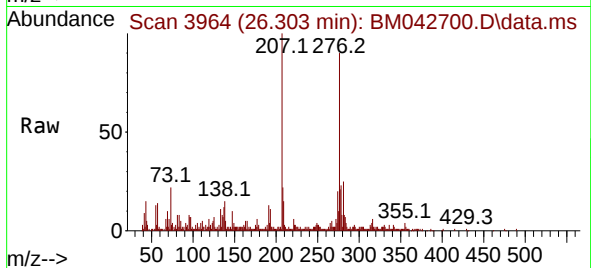
Tgt Ion:	278	Resp:	3235
Ion Ratio	Lower	Upper	
278	100		
139	21.1	13.4	20.2
279	36.3	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2023

Supervised By :mohammad ahmed 11/16/2023



#92

Benzo(g,h,i)perylene

Concen: 8.482 ng

RT: 27.079 min Scan# 4096

Delta R.T. 0.000 min

Lab File: BM042700.D

Acq: 10 Nov 2023 20:22

Tgt Ion:	276	Resp:	120877
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.2	28.8
138	15.7	17.3	25.9

