

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080423\
 Data File : BM041297.D
 Acq On : 04 Aug 2023 16:47
 Operator : MA/JU
 Sample : 03862-02DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BUILDING-B-3-(5-10)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/07/2023
 Supervised By :mohammad ahmed 08/07/2023

Quant Time: Aug 04 17:49:34 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 19:20:51 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.792	152	124891	20.000	ng	0.00
21) Naphthalene-d8	10.598	136	537399	20.000	ng	0.00
39) Acenaphthene-d10	14.457	164	379181	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	885286	20.000	ng	0.00
76) Chrysene-d12	21.427	240	872581	20.000	ng	0.00
86) Perylene-d12	23.797	264	922182	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	170468	20.400	ng	0.00
7) Phenol-d6	6.975	99	216261	19.966	ng	0.00
23) Nitrobenzene-d5	8.969	82	141504	12.245	ng	0.00
42) 2,4,6-Tribromophenol	15.962	330	93915	17.511	ng	0.00
45) 2-Fluorobiphenyl	13.074	172	357467	11.909	ng	0.00
79) Terphenyl-d14	19.856	244	669733	13.877	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.645	128	512638	17.579	ng	99
37) 2-Methylnaphthalene	12.269	142	423785	21.555	ng	99
38) 1-Methylnaphthalene	12.486	142	601265	32.675	ng	100
46) 1,1'-Biphenyl	13.286	154	95094	3.094	ng	100
49) Acenaphthylene	14.180	152	277581	7.493	ng	# 94
52) Acenaphthene	14.521	154	181452	8.130	ng	99
58) Fluorene	15.510	166	345319	12.021	ng	99
71) Phenanthrene	17.262	178	1545276	31.416	ng	99
72) Anthracene	17.351	178	346856	7.130	ng	100
75) Fluoranthene	19.286	202	695666	12.589	ng	99
78) Pyrene	19.650	202	1226905	20.106	ng	100
81) Benzo(a)anthracene	21.409	228	384841	6.506	ng	# 89
83) Chrysene	21.462	228	388531	6.791	ng	# 94
88) Benzo(b)fluoranthene	23.080	252	250458m	4.572	ng	
90) Benzo(a)pyrene	23.691	252	276841	5.259	ng	96
92) Benzo(g,h,i)perylene	26.997	276	146891	2.655	ng	97

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

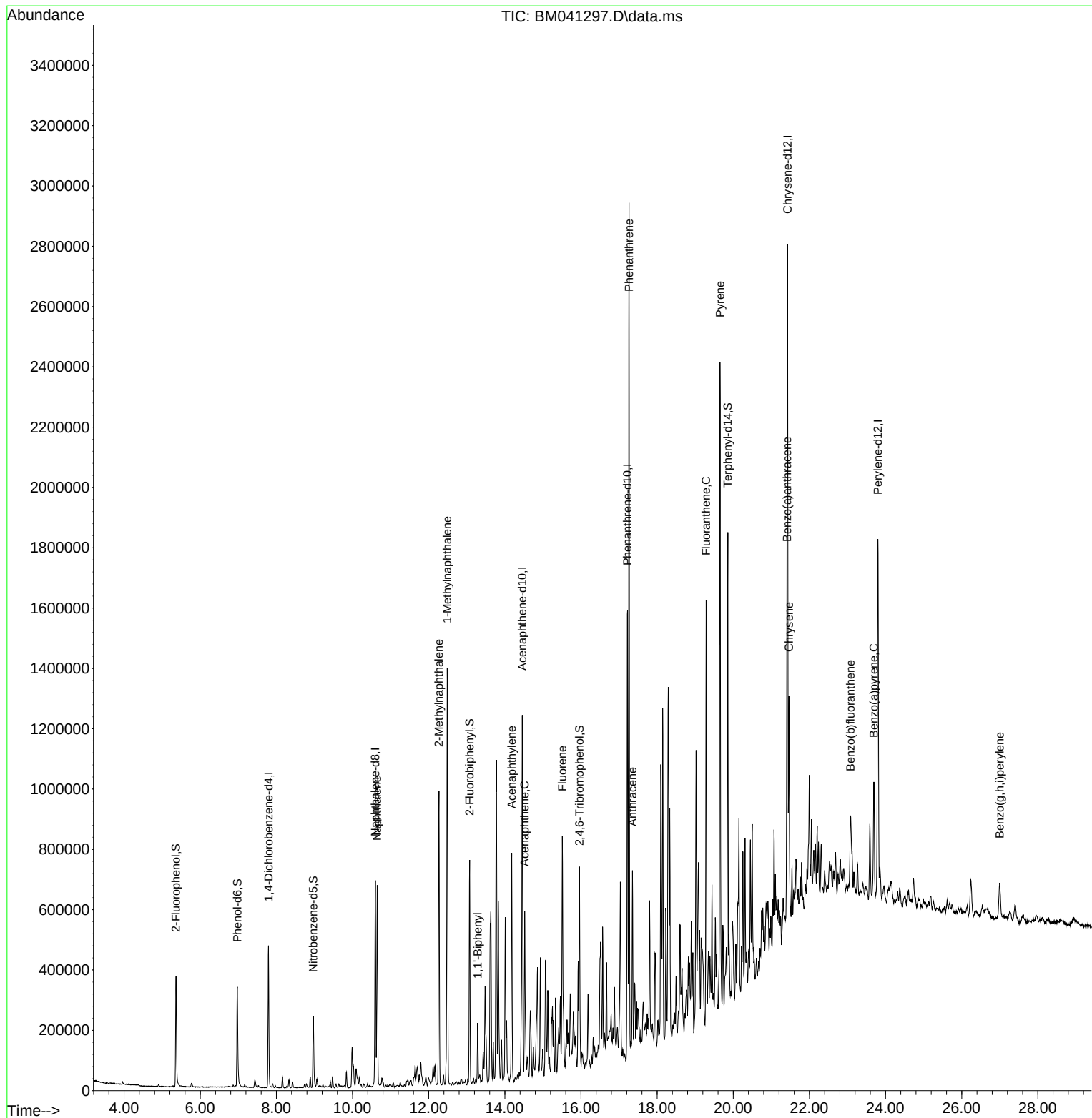
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080423\
Data File : BM041297.D
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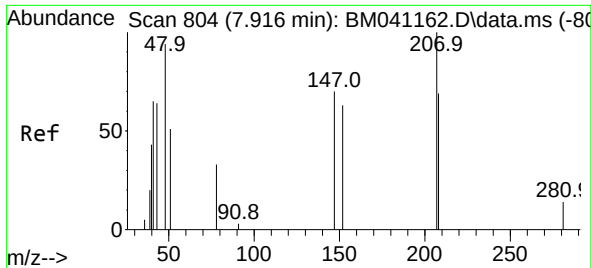
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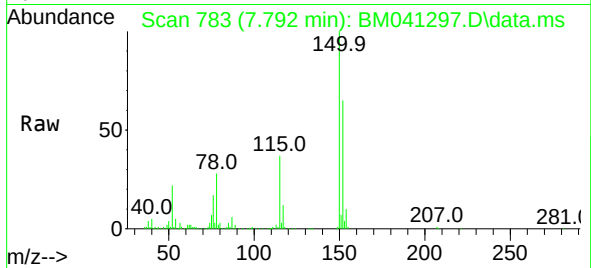
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.792 min Scan# 71
Delta R.T. -0.001 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

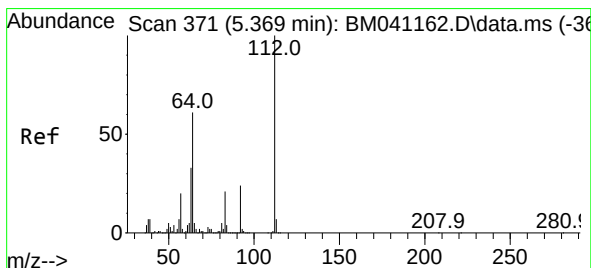
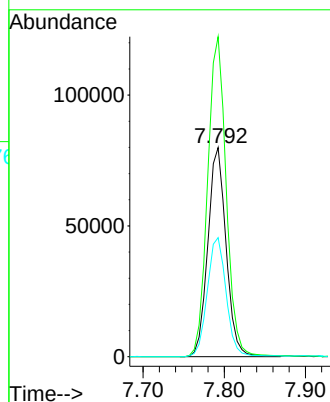
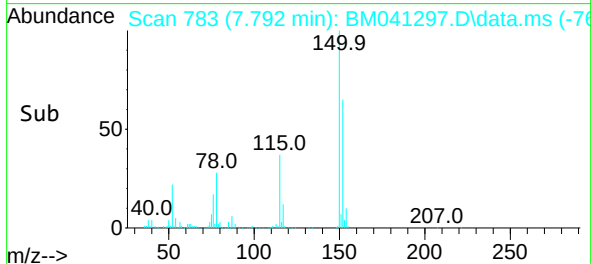
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BNA_M
ClientSampleId :
BUILDING-B-3-(5-10)DL



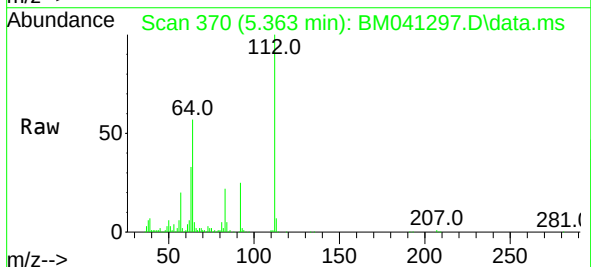
Tgt Ion:152 Resp: 12489
Ion Ratio Lower Upper
152 100
150 153.1 125.5 188.3
115 57.0 48.0 72.0

Manual Integrations
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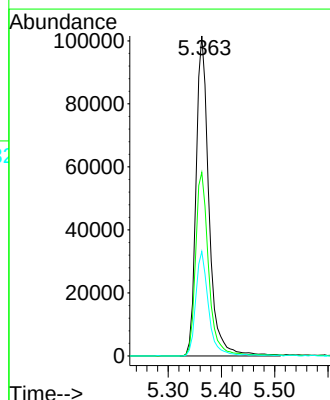
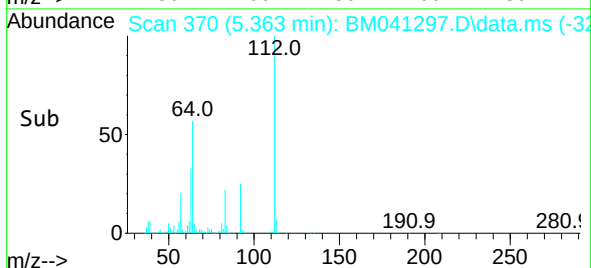
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023

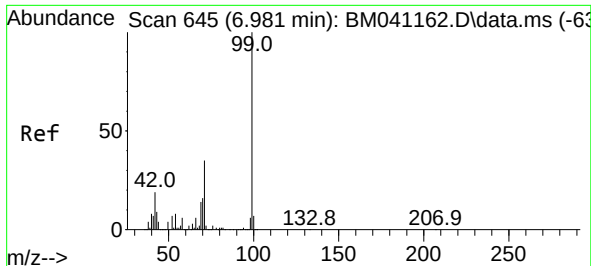


#5
2-Fluorophenol
Concen: 20.400 ng
RT: 5.363 min Scan# 370
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47



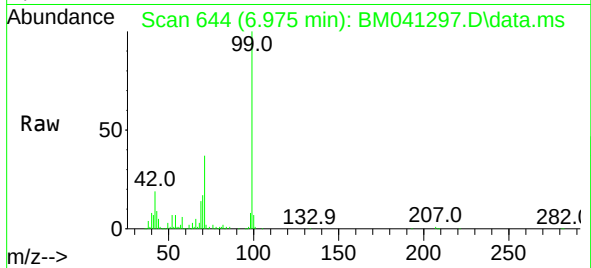
Tgt Ion:112 Resp: 170468
Ion Ratio Lower Upper
112 100
64 57.3 48.5 72.7
63 32.7 26.5 39.7





#7
Phenol-d6
Concen: 19.966 ng
RT: 6.975 min Scan# 645
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

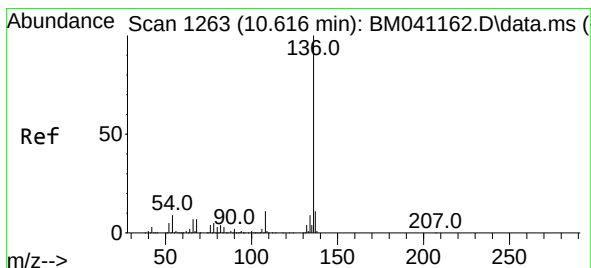
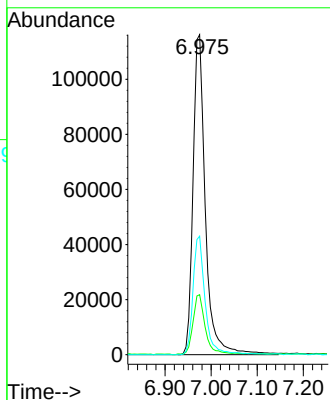
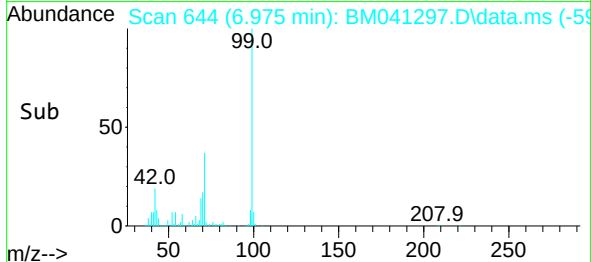
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BNA_M
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BUILDING-B-3-(5-10)DL



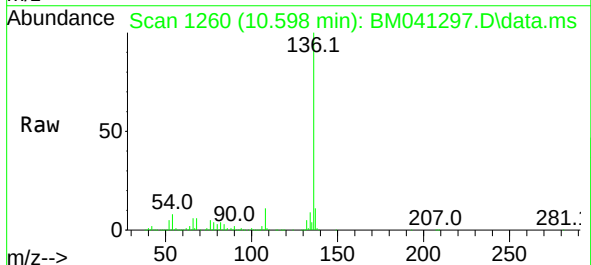
Tgt Ion: 99 Resp: 21626
Ion Ratio Lower Upper
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42 18.8 15.4 23.0
71 37.1 28.2 42.4

Manual Integrations
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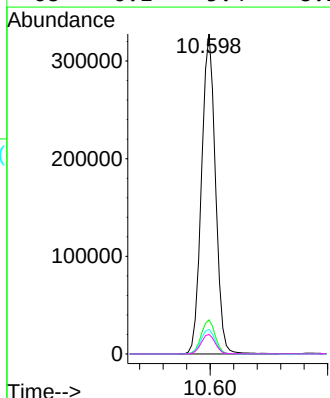
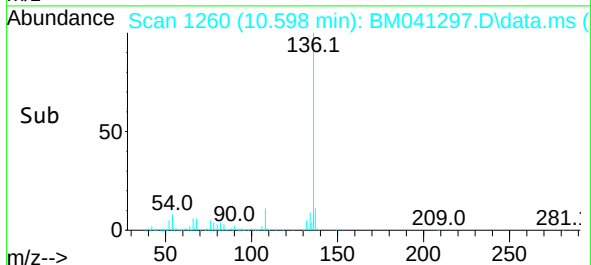
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023

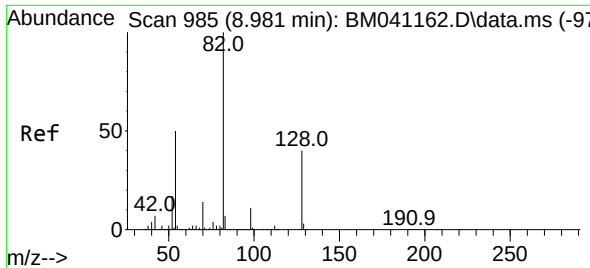


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.598 min Scan# 1260
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47



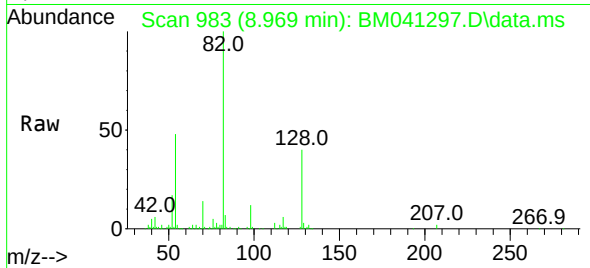
Tgt Ion:136 Resp: 537399
Ion Ratio Lower Upper
136 100
137 10.6 8.8 13.2
54 7.7 6.9 10.3
68 6.1 5.4 8.2





#23
Nitrobenzene-d5
Concen: 12.245 ng
RT: 8.969 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

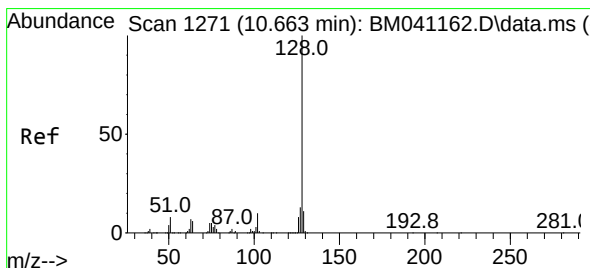
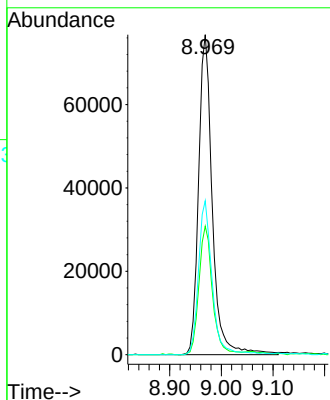
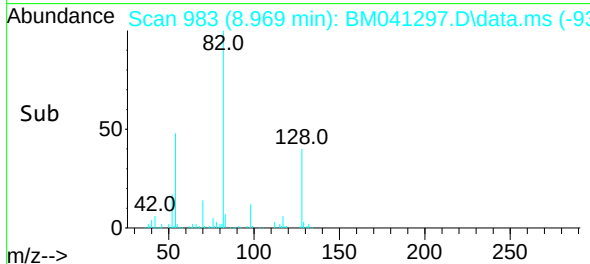
Instrument :
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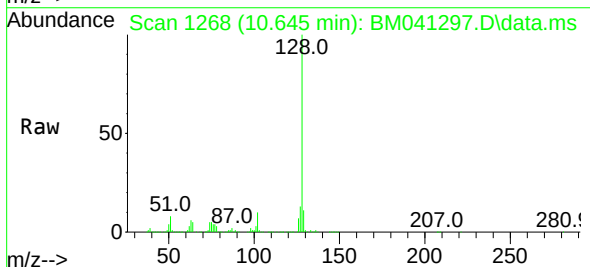
Tgt Ion: 82 Resp: 141504
Ion Ratio Lower Upper
82 100
128 40.1 31.8 47.6
54 48.1 40.1 60.1

Manual Integrations
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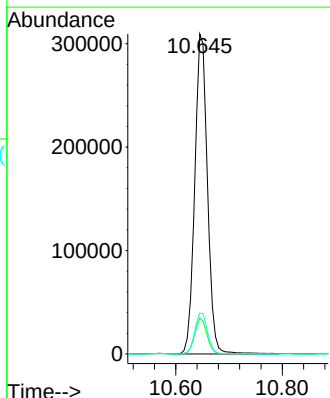
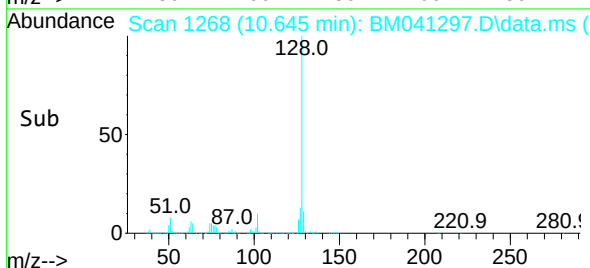
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023

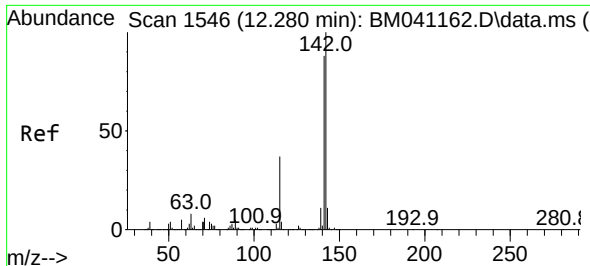


#31
Naphthalene
Concen: 17.579 ng
RT: 10.645 min Scan# 1268
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47



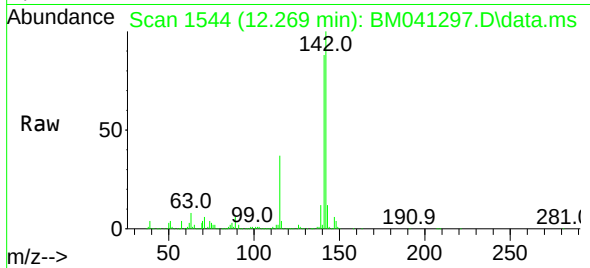
Tgt Ion:128 Resp: 512638
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.4
127 12.7 10.5 15.7





#37
2-Methylnaphthalene
Concen: 21.555 ng
RT: 12.269 min Scan# 1544
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

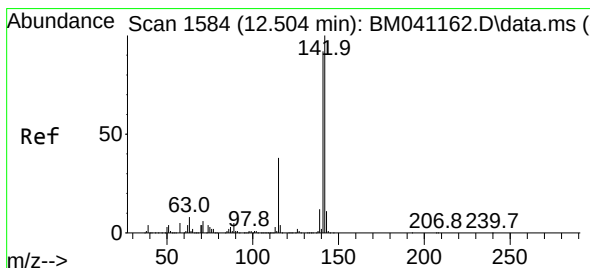
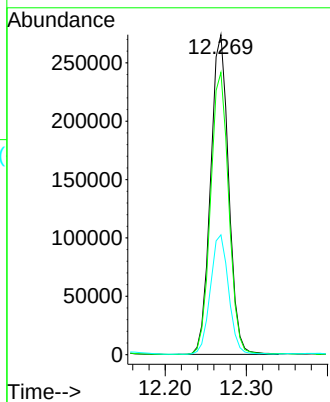
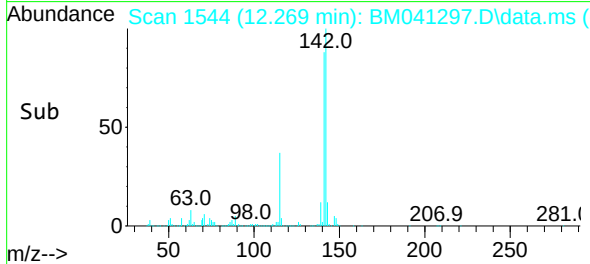
Instrument :
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ClientSampleId :
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Tgt Ion:142 Resp: 423785
Ion Ratio Lower Upper
142 100
141 88.2 70.7 106.1
115 37.5 29.3 43.9

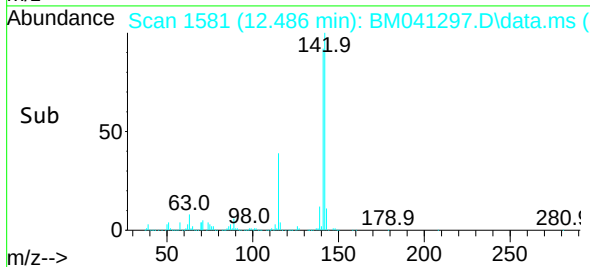
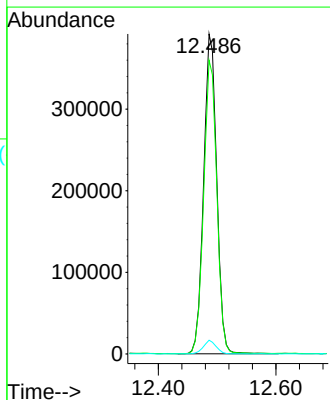
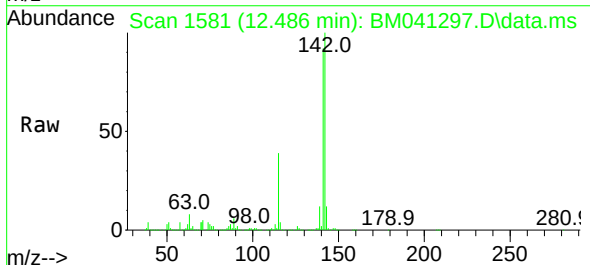
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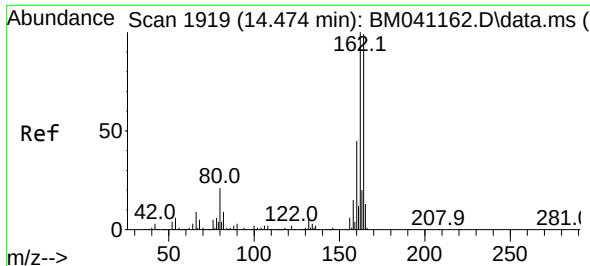
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#38
1-Methylnaphthalene
Concen: 32.675 ng
RT: 12.486 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

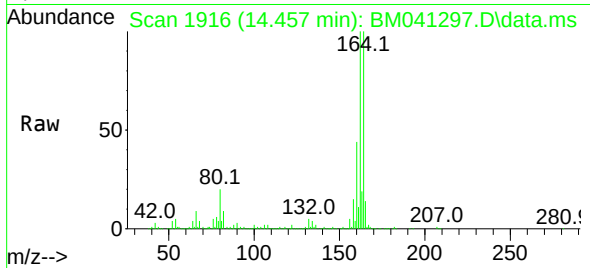
Tgt Ion:142 Resp: 601265
Ion Ratio Lower Upper
142 100
141 91.8 73.4 110.2
116 4.3 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.457 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

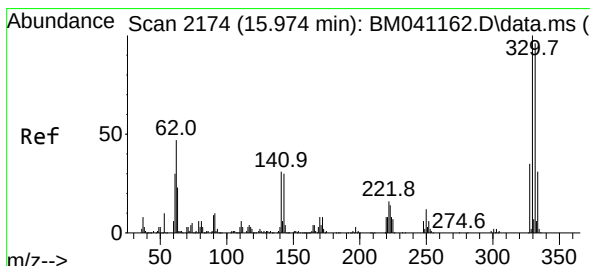
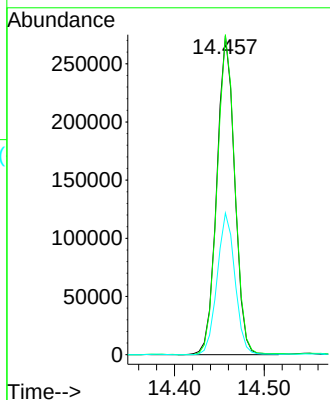
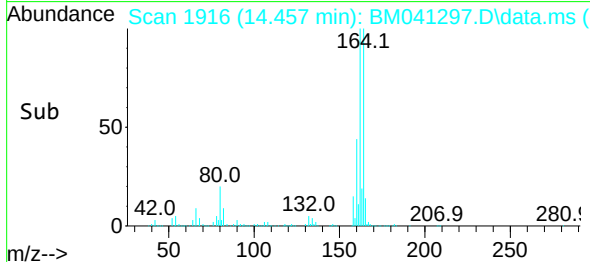
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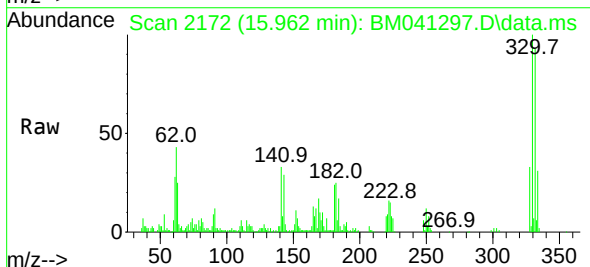
Tgt Ion:164 Resp: 37918
Ion Ratio Lower Upper
164 100
162 100.4 80.4 120.6
160 44.4 36.2 54.2

Manual Integrations
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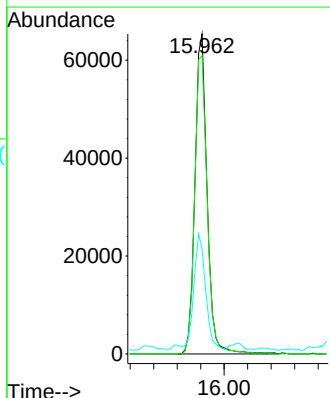
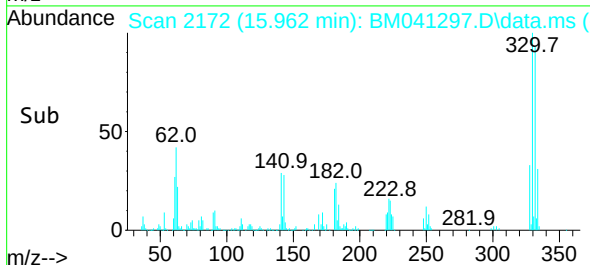
Reviewed By :Yogesh Patel 08/07/2023
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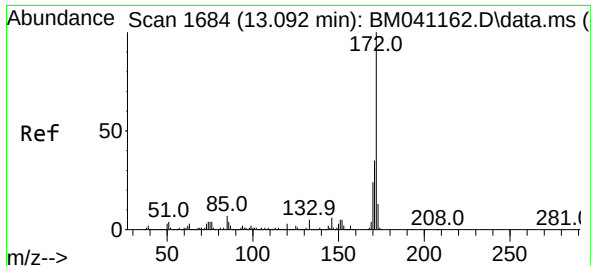


#42
2,4,6-Tribromophenol
Concen: 17.511 ng
RT: 15.962 min Scan# 2172
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47



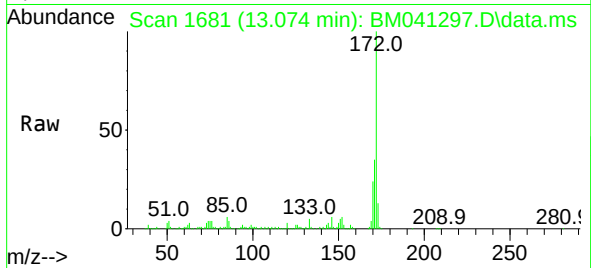
Tgt Ion:330 Resp: 93915
Ion Ratio Lower Upper
330 100
332 96.2 77.7 116.5
141 36.3 28.3 42.5





#45
2-Fluorobiphenyl
Concen: 11.909 ng
RT: 13.074 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

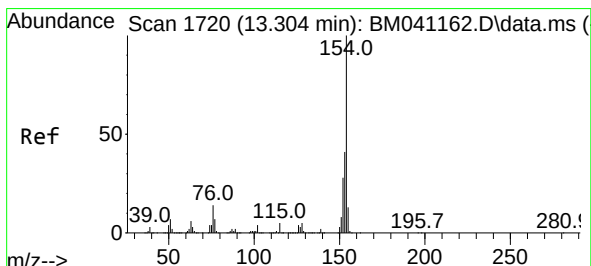
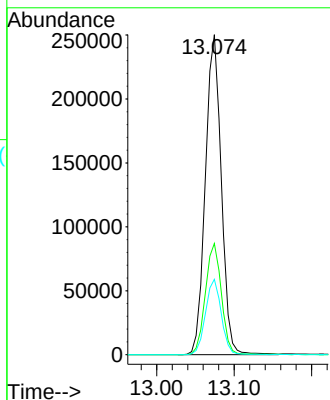
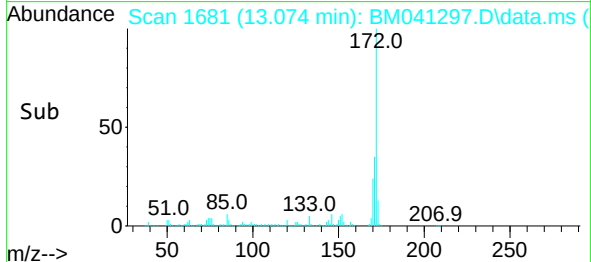
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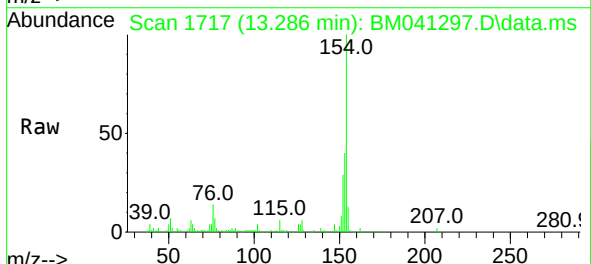
Tgt Ion:172 Resp: 35746
Ion Ratio Lower Upper
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171 34.7 28.1 42.1
170 23.5 18.9 28.3

Manual Integrations
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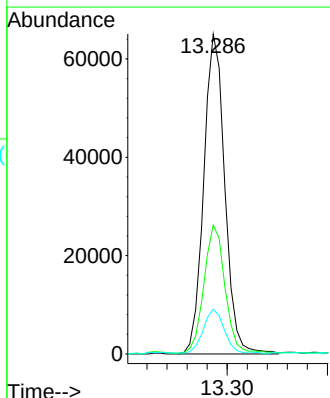
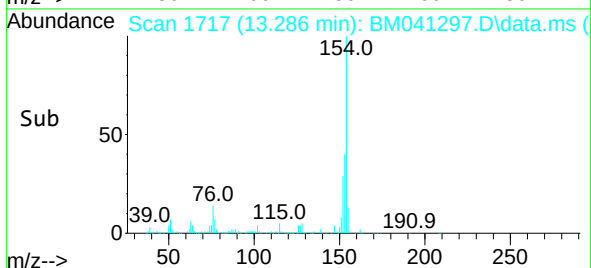
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023

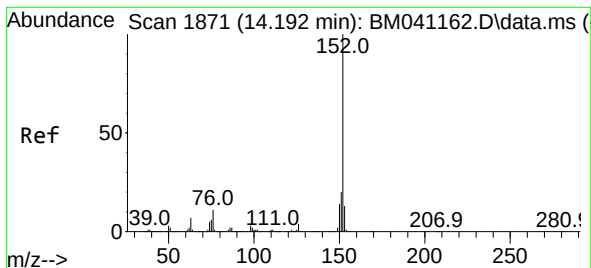


#46
1,1'-Biphenyl
Concen: 3.094 ng
RT: 13.286 min Scan# 1717
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47



Tgt Ion:154 Resp: 95094
Ion Ratio Lower Upper
154 100
153 40.3 20.5 60.5
76 14.0 0.0 34.1





#49

Acenaphthylene

Concen: 7.493 ng

RT: 14.180 min Scan# 1869

Delta R.T. -0.006 min

Lab File: BM041297.D

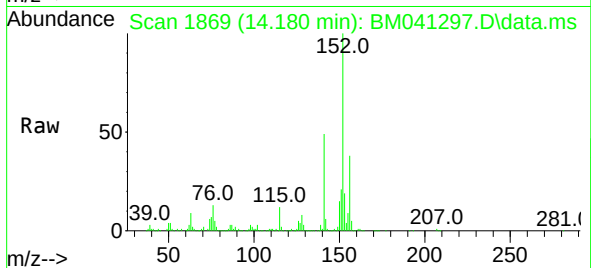
Acq: 04 Aug 2023 16:47

Instrument :

BNA_M

ClientSampleId :

BUILDING-B-3-(5-10)DL



Tgt Ion:152 Resp: 27758

Ion Ratio Lower Upper

152 100

151 20.5 16.1 24.1

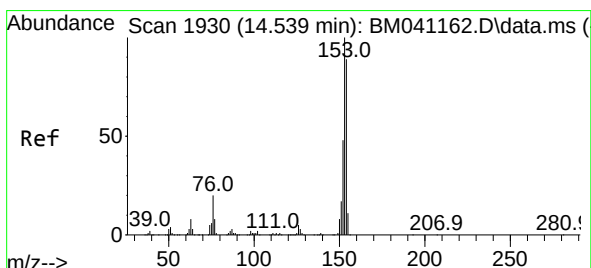
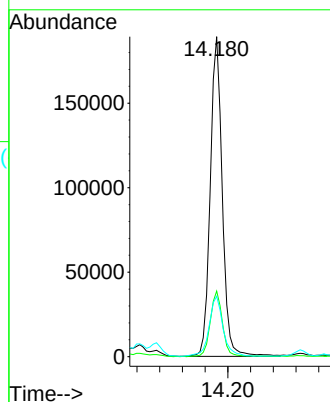
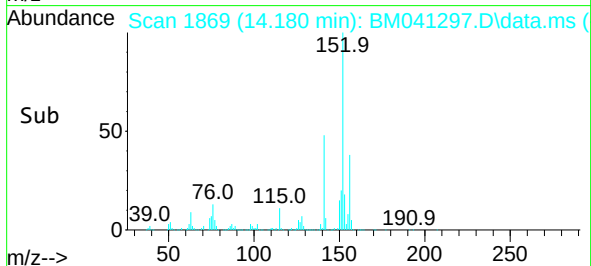
153 18.8 10.5 15.7

Manual Integrations

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Reviewed By :Yogesh Patel 08/07/2023

Supervised By :mohammad ahmed 08/07/2023



#52

Acenaphthene

Concen: 8.130 ng

RT: 14.521 min Scan# 1927

Delta R.T. -0.006 min

Lab File: BM041297.D

Acq: 04 Aug 2023 16:47

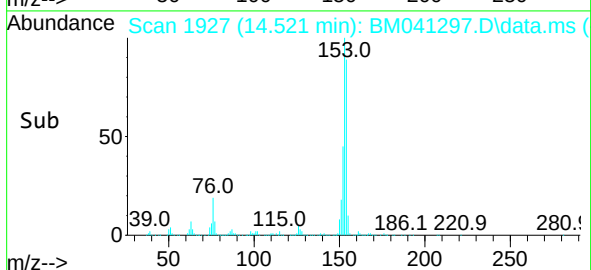
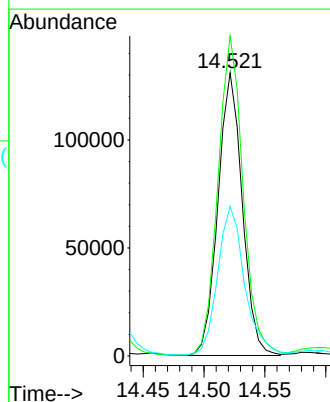
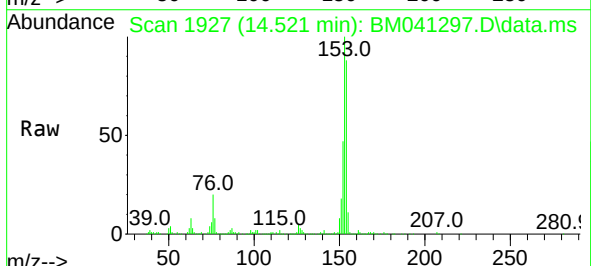
Tgt Ion:154 Resp: 181452

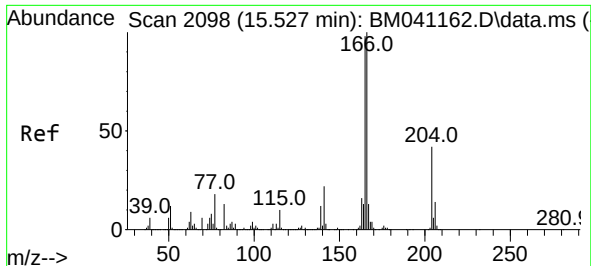
Ion Ratio Lower Upper

154 100

153 113.0 90.2 135.4

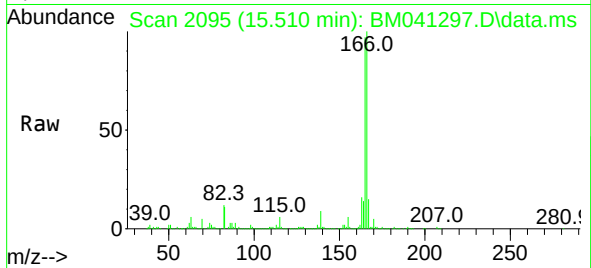
152 52.8 43.4 65.0





#58
Fluorene
Concen: 12.021 ng
RT: 15.510 min Scan# 2098
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

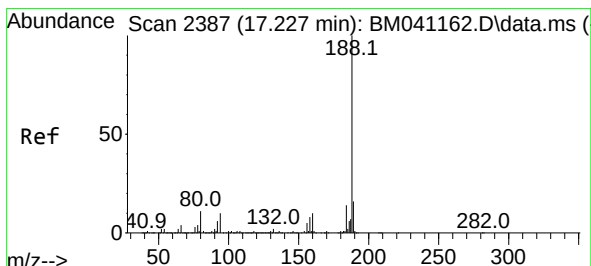
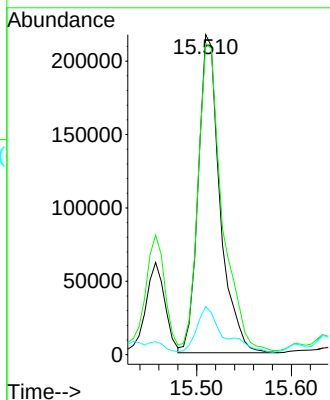
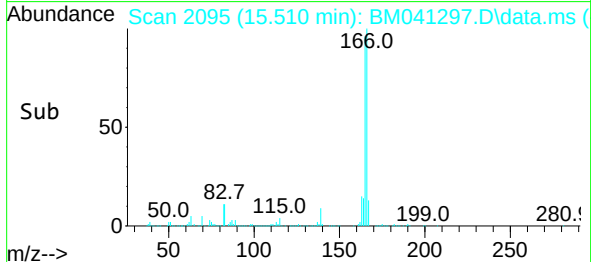
Instrument :
BNA_M
ClientSampleId :
BUILDING-B-3-(5-10)DL



Tgt Ion:166 Resp: 345319
Ion Ratio Lower Upper
166 100
165 97.2 78.2 117.4
167 15.1 10.6 16.0

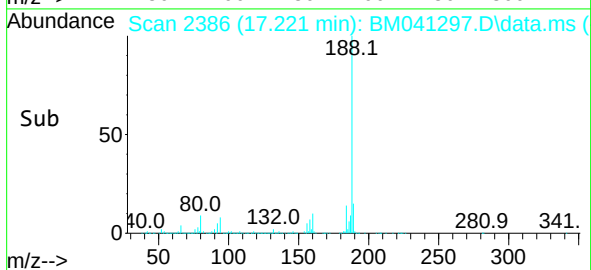
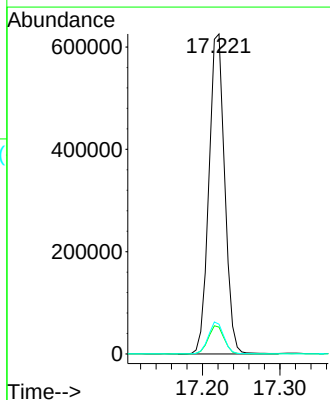
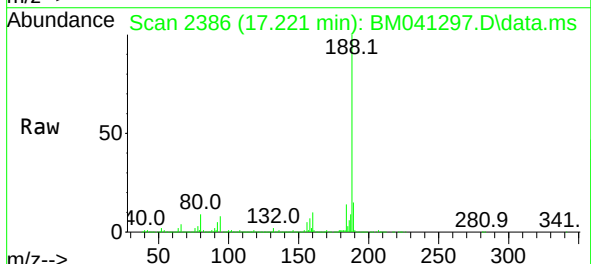
Manual Integrations
APPROVED

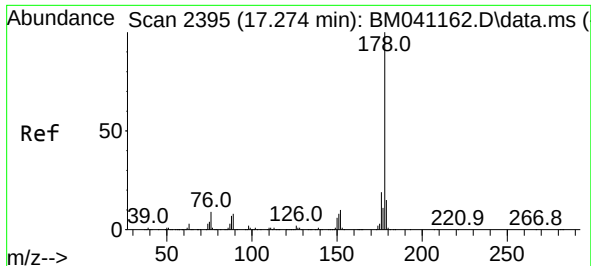
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 2386
Delta R.T. -0.000 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

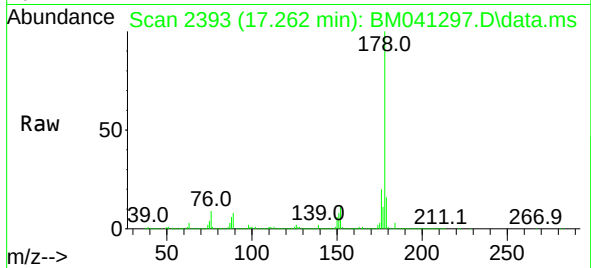
Tgt Ion:188 Resp: 885286
Ion Ratio Lower Upper
188 100
94 8.4 8.2 12.2
80 9.3 8.6 13.0





#71
Phenanthrene
Concen: 31.416 ng
RT: 17.262 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

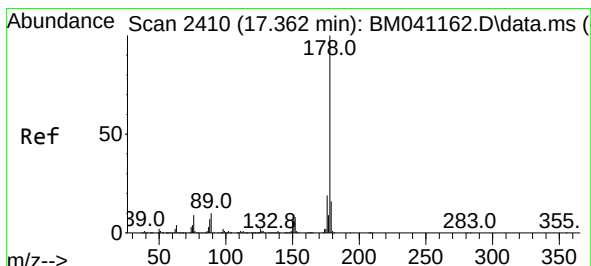
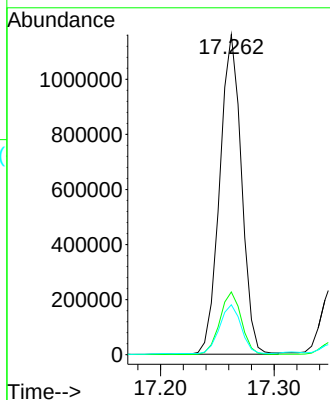
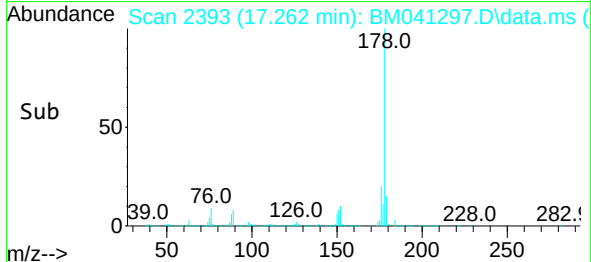
Instrument :
BNA_M
ClientSampleId :
BUILDING-B-3-(5-10)DL



Tgt Ion:178 Resp: 1545270
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 15.6 12.1 18.1

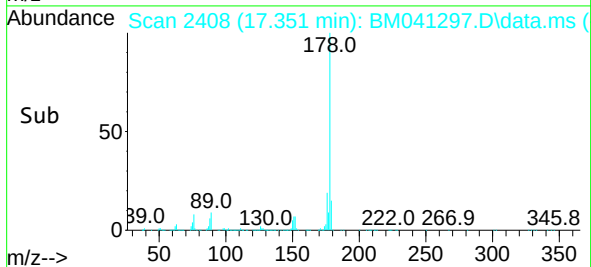
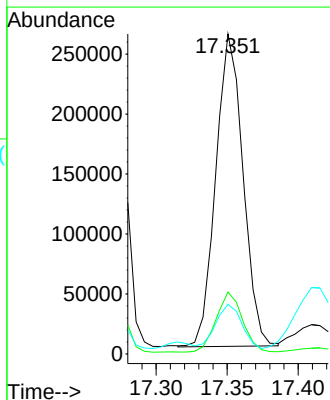
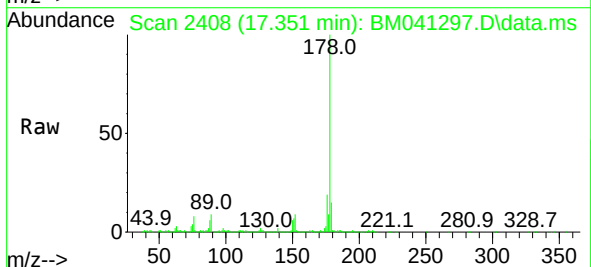
Manual Integrations
APPROVED

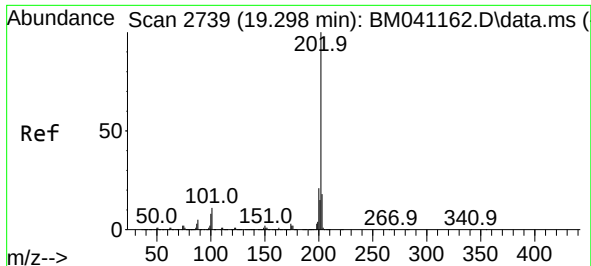
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#72
Anthracene
Concen: 7.130 ng
RT: 17.351 min Scan# 2408
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

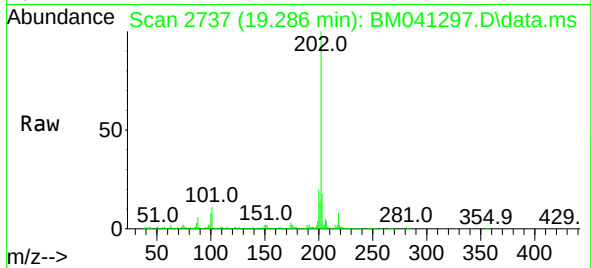
Tgt Ion:178 Resp: 346856
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.5 12.4 18.6





#75
Fluoranthene
Concen: 12.589 ng
RT: 19.286 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

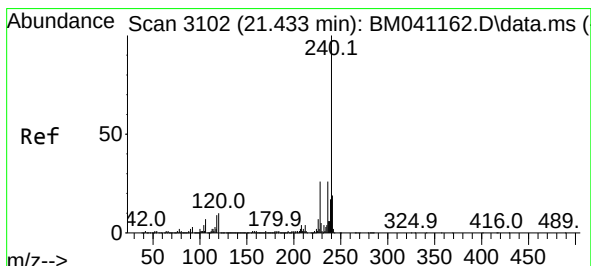
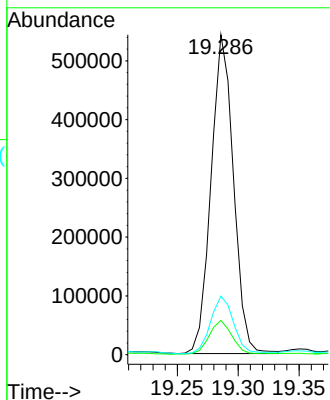
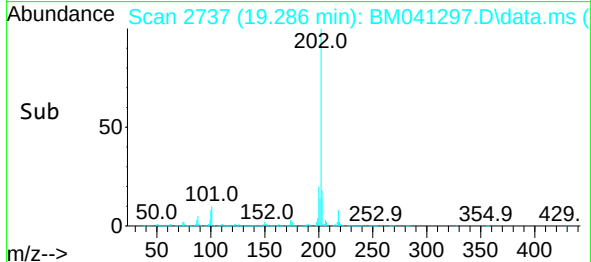
Instrument :
BNA_M
ClientSampleId :
BUILDING-B-3-(5-10)DL



Tgt Ion:202 Resp: 695660
Ion Ratio Lower Upper
202 100
101 10.7 0.0 30.8
203 18.3 0.0 37.6

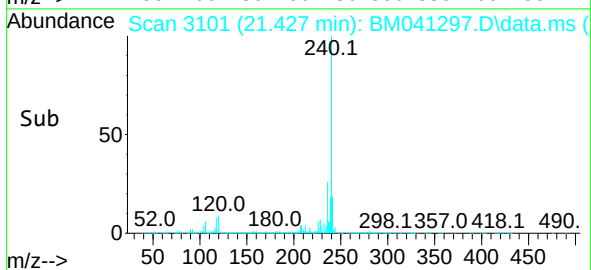
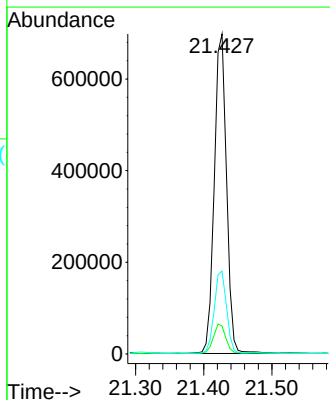
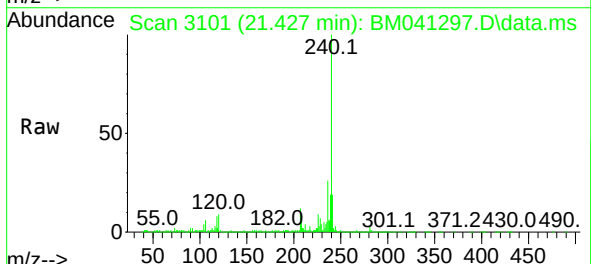
Manual Integrations
APPROVED

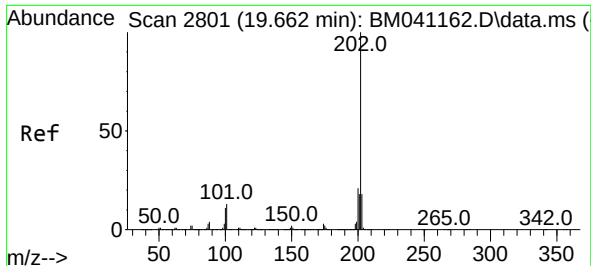
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.427 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

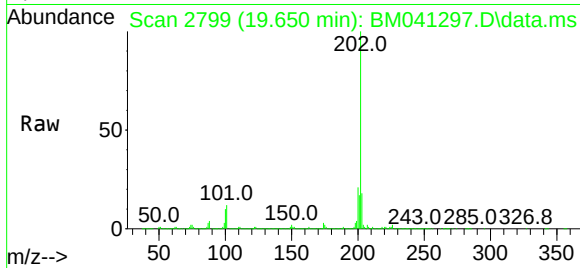
Tgt Ion:240 Resp: 872581
Ion Ratio Lower Upper
240 100
120 8.8 8.3 12.5
236 25.9 20.6 30.8





#78
Pyrene
Concen: 20.106 ng
RT: 19.650 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

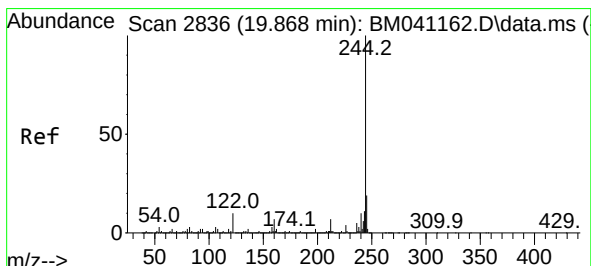
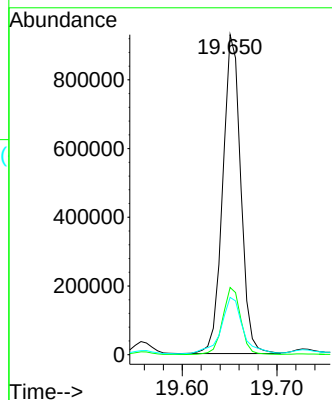
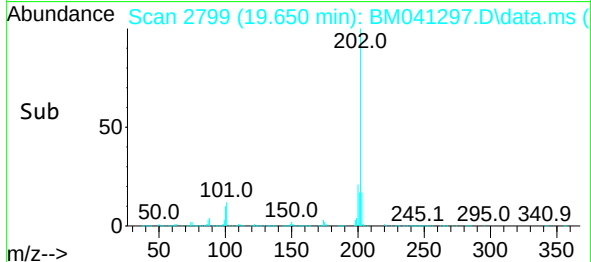
Instrument :
BNA_M
ClientSampleId :
BUILDING-B-3-(5-10)DL



Tgt Ion:202 Resp: 122690
Ion Ratio Lower Upper
202 100
200 21.0 16.9 25.3
203 17.9 14.1 21.1

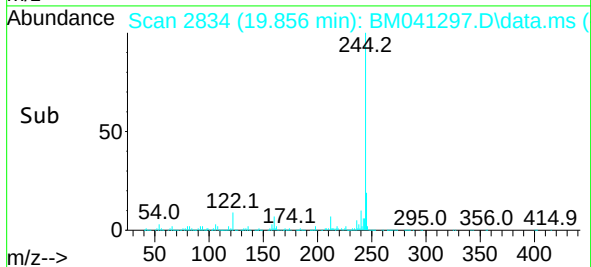
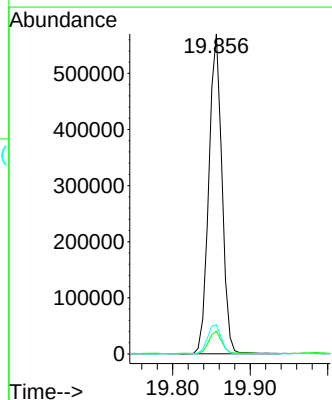
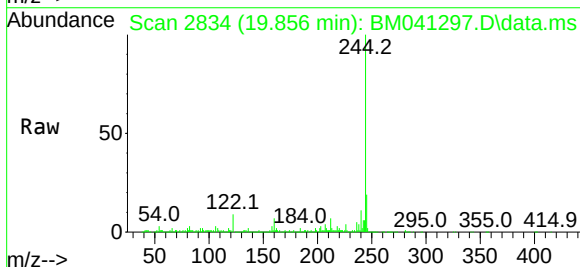
Manual Integrations
APPROVED

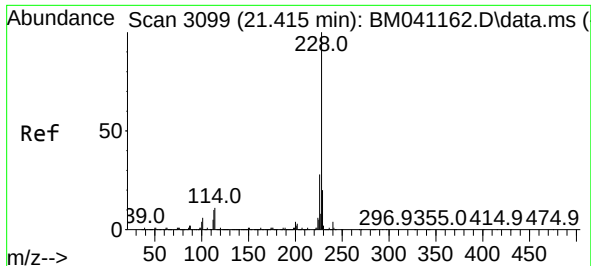
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#79
Terphenyl-d14
Concen: 13.877 ng
RT: 19.856 min Scan# 2834
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

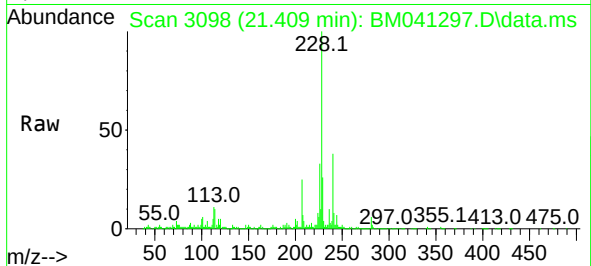
Tgt Ion:244 Resp: 669733
Ion Ratio Lower Upper
244 100
212 7.1 5.4 8.2
122 9.1 7.8 11.6





#81
Benzo(a)anthracene
Concen: 6.506 ng
RT: 21.409 min Scan# 3099
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

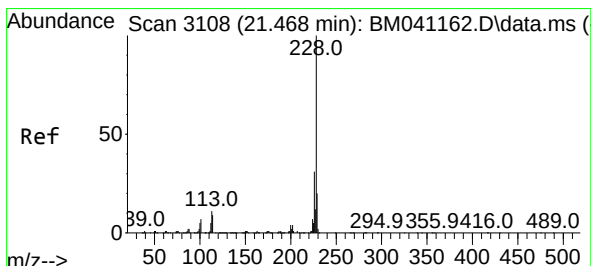
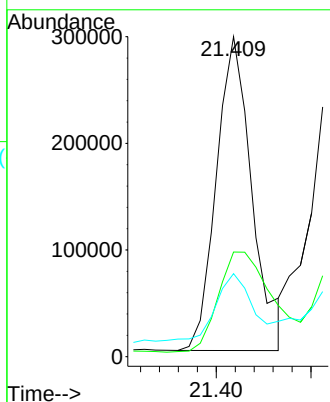
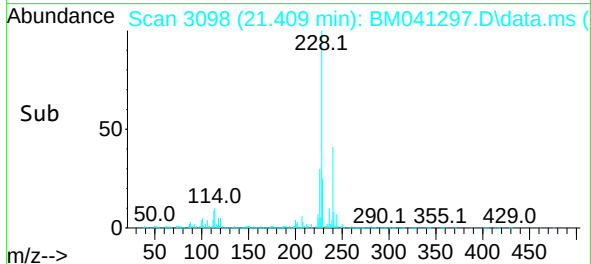
Instrument :
BNA_M
ClientSampleId :
BUILDING-B-3-(5-10)DL



Tgt Ion:228 Resp: 38484
Ion Ratio Lower Upper
228 100
226 32.7 22.4 33.6
229 25.9 15.8 23.8

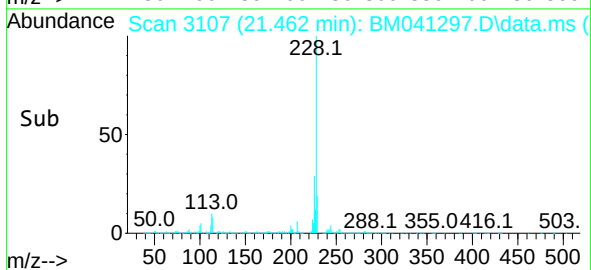
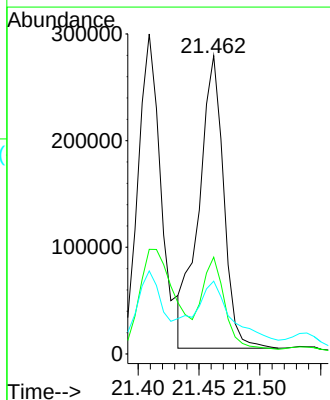
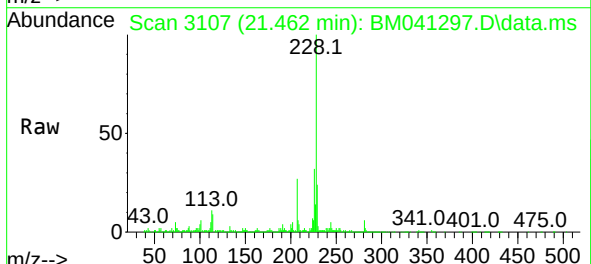
Manual Integrations
APPROVED

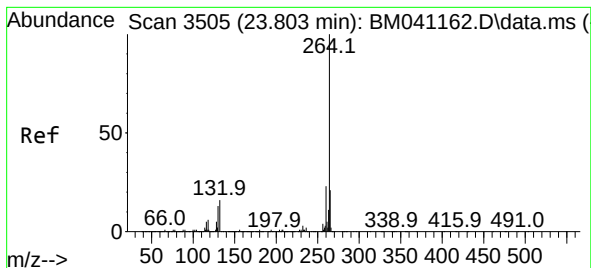
Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#83
Chrysene
Concen: 6.791 ng
RT: 21.462 min Scan# 3107
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

Tgt Ion:228 Resp: 388531
Ion Ratio Lower Upper
228 100
226 32.5 24.5 36.7
229 24.4 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.797 min Scan# 3505

Delta R.T. -0.006 min

Lab File: BM041297.D

Acq: 04 Aug 2023 16:47

Instrument :

BNA_M

ClientSampleId :

BUILDING-B-3-(5-10)DL

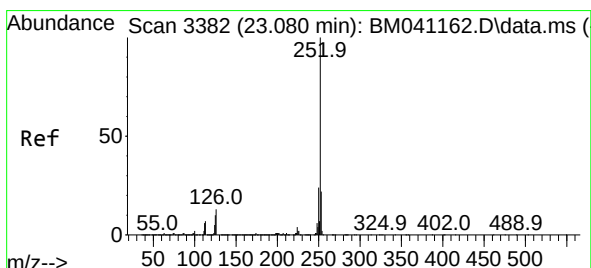
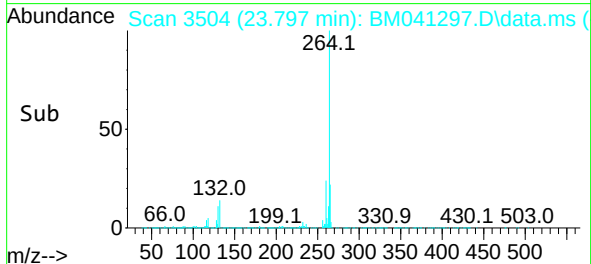
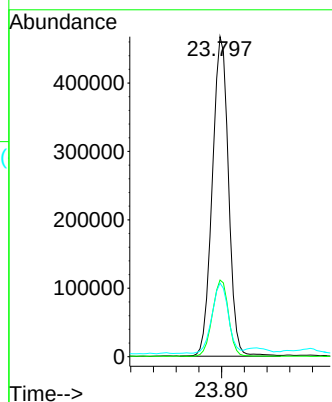
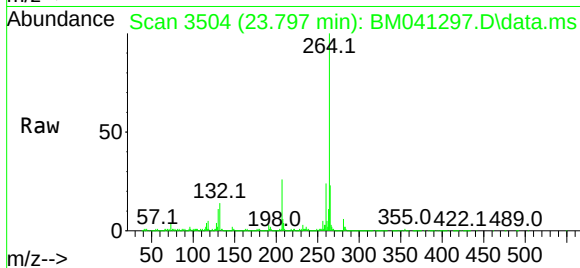
Tgt Ion:	264	Resp:	92218
Ion Ratio	Lower	Upper	
264	100		
260	23.9	18.5	27.7
265	23.0	17.4	26.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/07/2023

Supervised By :mohammad ahmed 08/07/2023



#88

Benzo(b)fluoranthene

Concen: 4.572 ng m

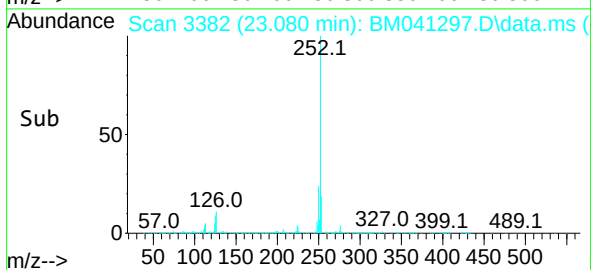
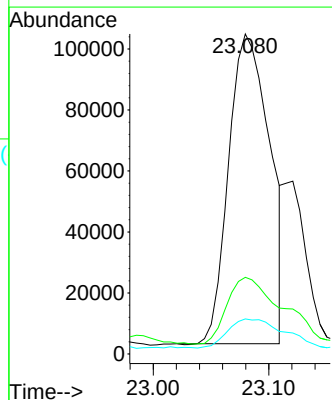
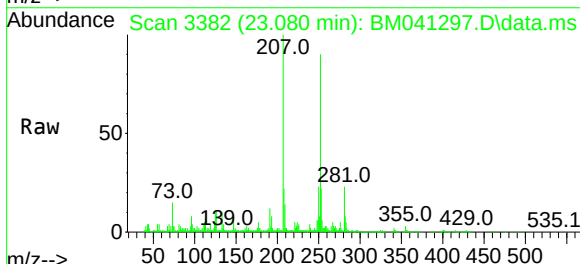
RT: 23.080 min Scan# 3382

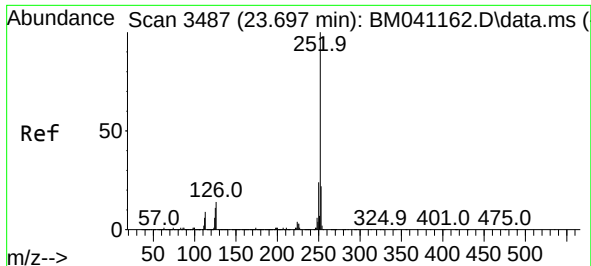
Delta R.T. -0.006 min

Lab File: BM041297.D

Acq: 04 Aug 2023 16:47

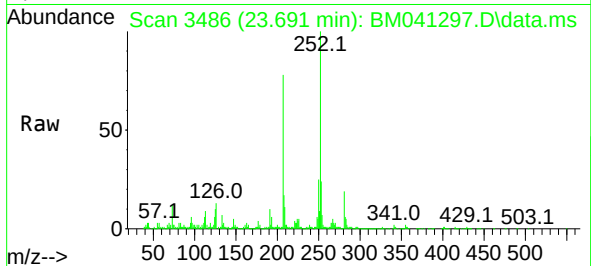
Tgt Ion:	252	Resp:	250458
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.7	26.5
125	10.9	8.2	12.4





#90
Benzo(a)pyrene
Concen: 5.259 ng
RT: 23.691 min Scan# 3487
Delta R.T. -0.006 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47

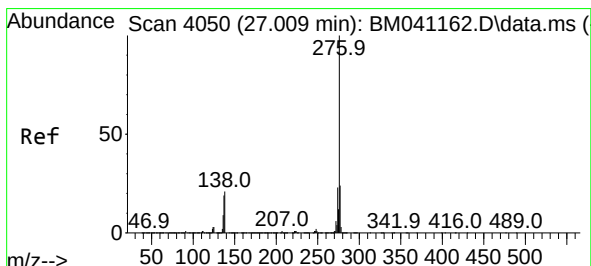
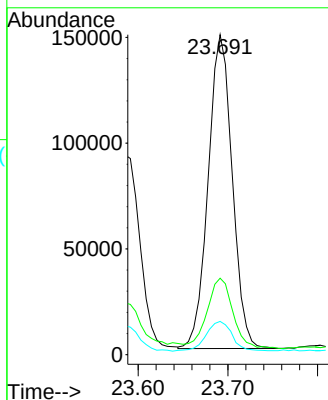
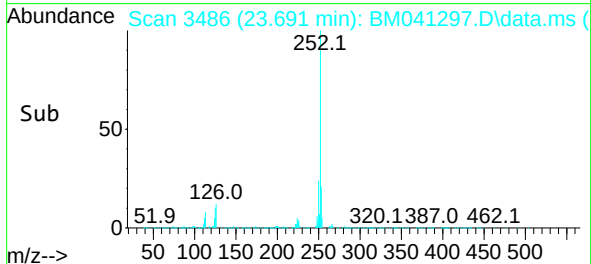
Instrument :
BNA_M
ClientSampleId :
BUILDING-B-3-(5-10)DL



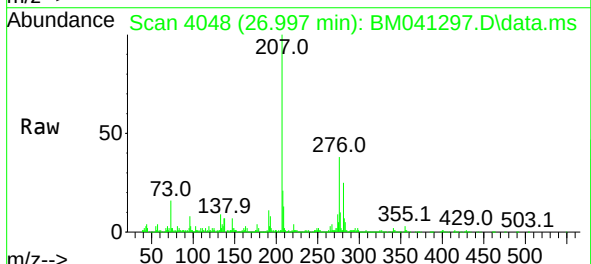
Tgt Ion:252 Resp: 27684
Ion Ratio Lower Upper
252 100
253 23.9 17.3 25.9
125 10.4 9.0 13.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/07/2023
Supervised By :mohammad ahmed 08/07/2023



#92
Benzo(g,h,i)perylene
Concen: 2.655 ng
RT: 26.997 min Scan# 4048
Delta R.T. -0.018 min
Lab File: BM041297.D
Acq: 04 Aug 2023 16:47



Tgt Ion:276 Resp: 146891
Ion Ratio Lower Upper
276 100
277 25.1 19.1 28.7
138 19.4 17.1 25.7

