

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071322\
 Data File : BM035797.D
 Acq On : 13 Jul 2022 16:57
 Operator : CG/JU
 Sample : N3645-01 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 NB-08-070822

Quant Time: Jul 14 01:24:54 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM071322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 14 01:21:21 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 07/14/2022
 Supervised By : Jagrut Upadhyay 07/14/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.904	152	408611	20.000	ng	0.00
21) Naphthalene-d8	10.710	136	1583890	20.000	ng	0.00
39) Acenaphthene-d10	14.539	164	831821	20.000	ng	0.00
64) Phenanthrene-d10	17.274	188	1573543	20.000	ng	0.00
76) Chrysene-d12	21.456	240	1422916	20.000	ng	0.00
86) Perylene-d12	23.844	264	1471663	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	665237	26.444	ng	0.00
7) Phenol-d6	7.063	99	799511	25.408	ng	0.00
23) Nitrobenzene-d5	9.069	82	466706	16.845	ng	0.00
42) 2,4,6-Tribromophenol	16.015	330	219012	25.927	ng	0.00
45) 2-Fluorobiphenyl	13.168	172	961049	16.113	ng	0.00
79) Terphenyl-d14	19.903	244	1185494	16.173	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.763	128	303046	3.788	ng	100
37) 2-Methylnaphthalene	12.368	142	259093	4.924	ng	97
38) 1-Methylnaphthalene	12.586	142	300148	5.856	ng	98
49) Acenaphthylene	14.262	152	496887	6.796	ng	98
52) Acenaphthene	14.598	154	704481	15.788	ng	99
55) Dibenzofuran	14.933	168	561242	7.778	ng	97
58) Fluorene	15.580	166	932437	16.287	ng	99
71) Phenanthrene	17.321	178	6681967	80.834	ng	98
72) Anthracene	17.409	178	1753639	22.052	ng	99
73) Carbazole	17.680	167	628528	7.856	ng	99
75) Fluoranthene	19.333	202	7381077	79.842	ng	96
78) Pyrene	19.697	202	6737901	75.403	ng	98
81) Benzo(a)anthracene	21.438	228	2693850	30.179	ng	97
83) Chrysene	21.491	228	2505136	29.069	ng	97
87) Indeno(1,2,3-cd)pyrene	26.332	276	1168238	10.901	ng	97
88) Benzo(b)fluoranthene	23.121	252	2561993m	28.823	ng	
89) Benzo(k)fluoranthene	23.162	252	977976m	10.519	ng	
90) Benzo(a)pyrene	23.738	252	2052934	27.604	ng	# 94
91) Dibenzo(a,h)anthracene	26.350	278	311914	3.509	ng	# 77
92) Benzo(g,h,i)perylene	27.103	276	1189991	13.566	ng	97

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

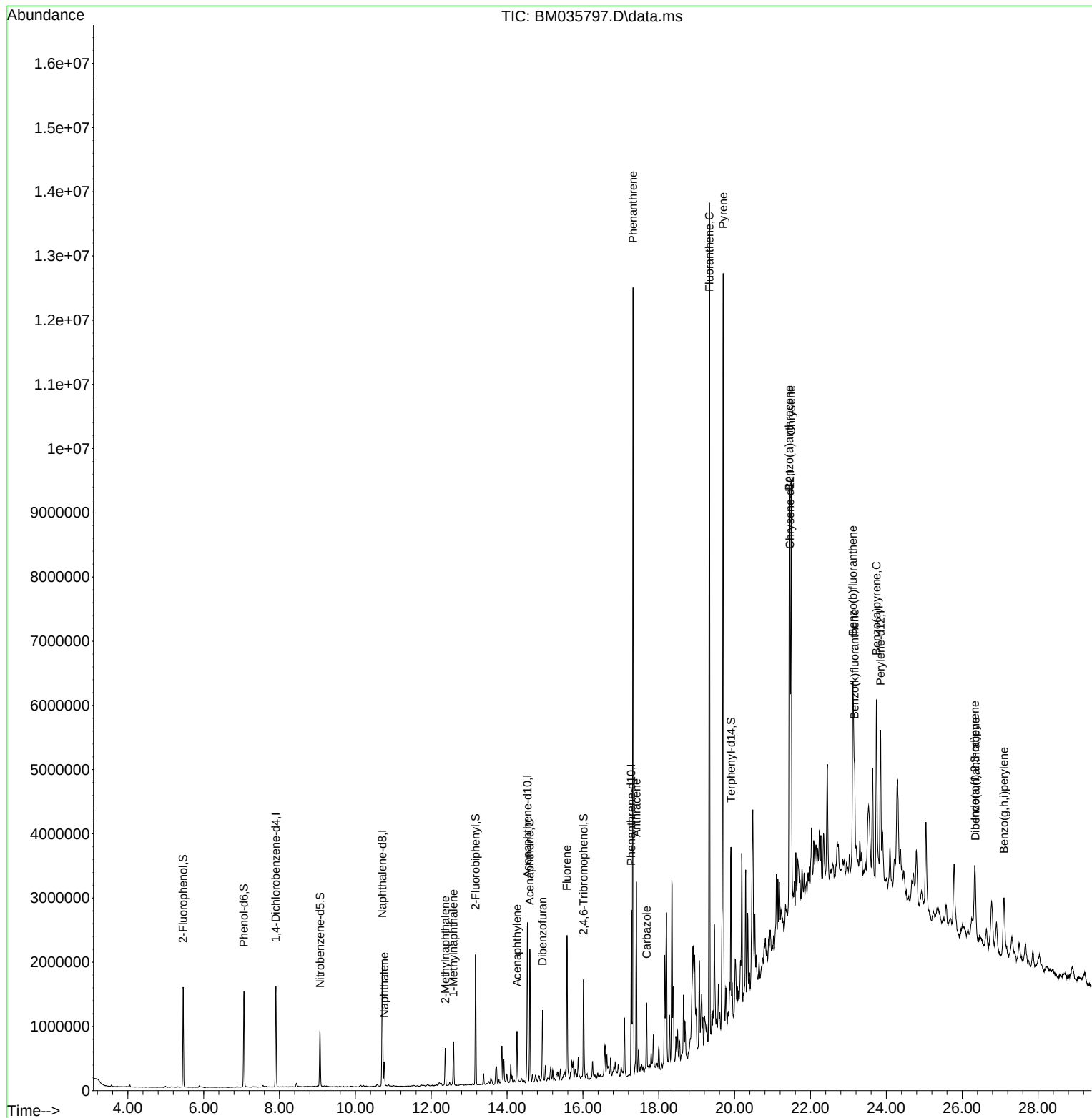
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071322\
Data File : BM035797.D
Acq On : 13 Jul 2022 16:57
Operator : CG/JU
Sample : N3645-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

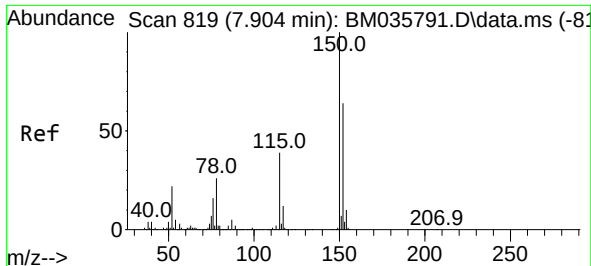
Instrument :
BNA_M
ClientSampleId :
NB-08-070822

Quant Time: Jul 14 01:24:54 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM071322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 14 01:21:21 2022
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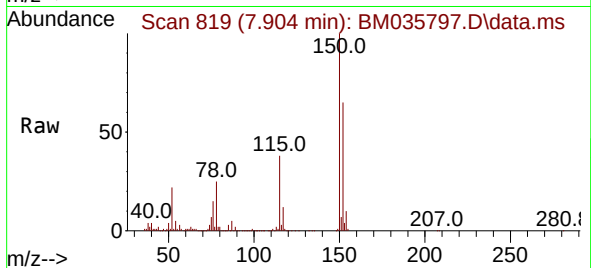
Reviewed By : Christian Giraldo 07/14/2022
Supervised By : Jagrut Upadhyay 07/14/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.904 min Scan# 819
Delta R.T. 0.000 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

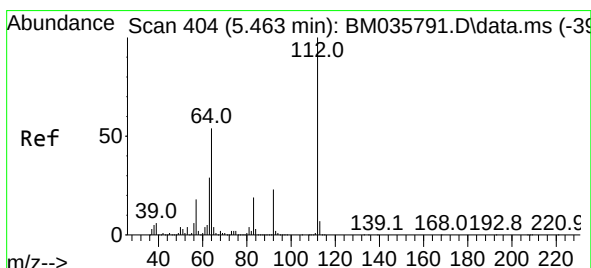
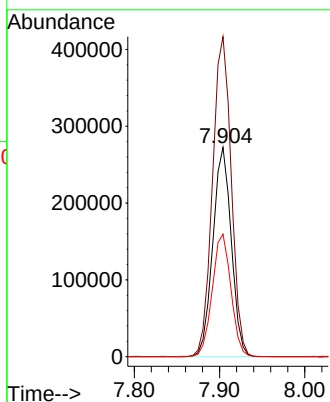
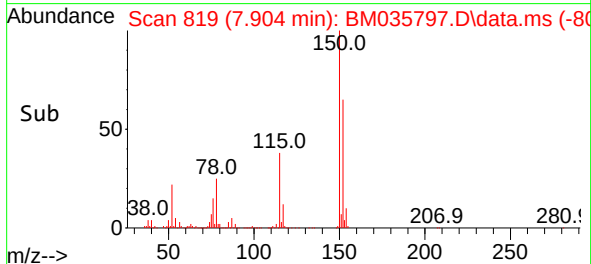
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BNA_M
ClientSampleId :
NB-08-070822



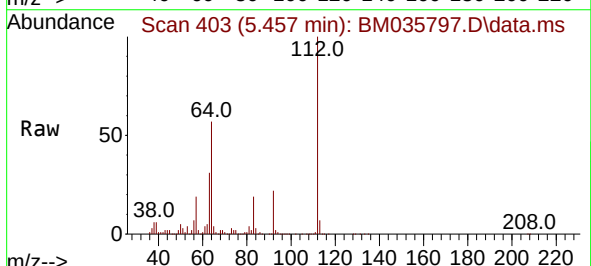
Tgt Ion:152 Resp: 40861
Ion Ratio Lower Upper
152 100
150 152.9 124.9 187.3
115 58.6 47.9 71.9

Manual Integrations
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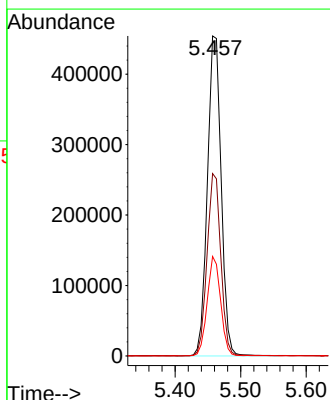
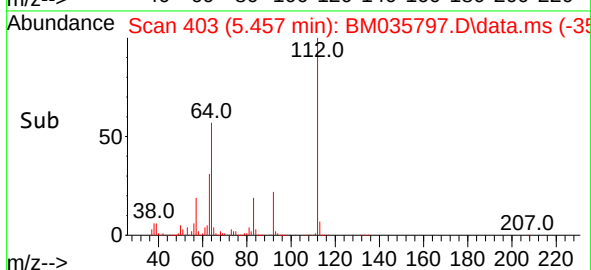
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022

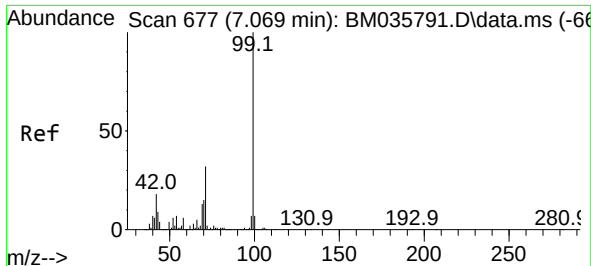


#5
2-Fluorophenol
Concen: 26.444 ng
RT: 5.457 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57



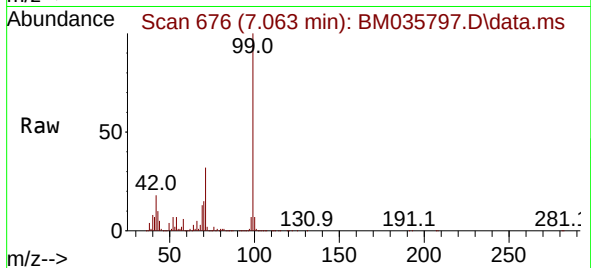
Tgt Ion:112 Resp: 665237
Ion Ratio Lower Upper
112 100
64 57.0 47.8 71.6
63 31.1 26.6 40.0





#7
Phenol-d6
Concen: 25.408 ng
RT: 7.063 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

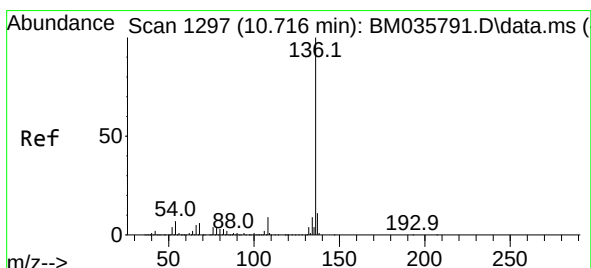
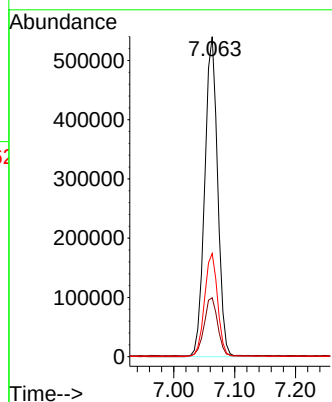
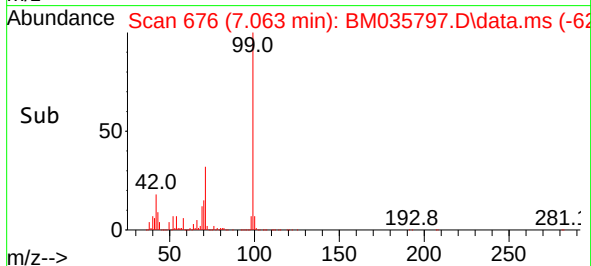
Instrument :
BNA_M
ClientSampleId :
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Tgt Ion: 99 Resp: 79951
Ion Ratio Lower Upper
99 100
42 18.4 18.8 28.2
71 32.2 30.2 45.2

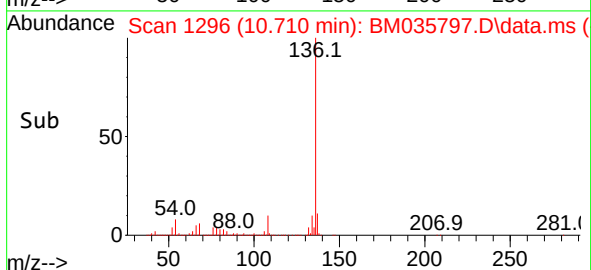
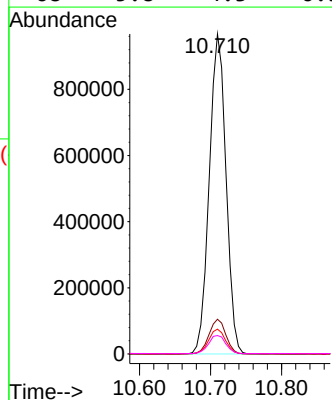
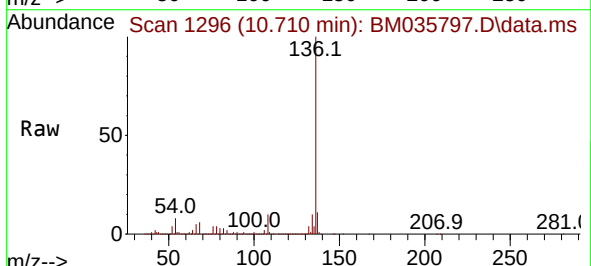
Manual Integrations
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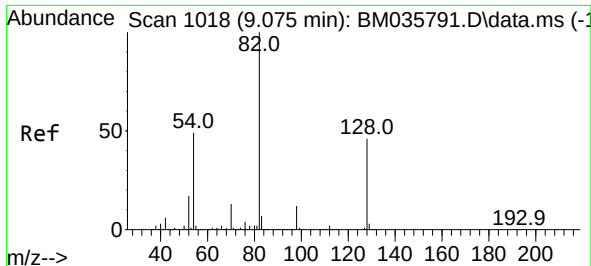
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.710 min Scan# 1296
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

Tgt Ion:136 Resp: 1583890
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 7.7 7.0 10.4
68 5.8 4.3 6.5





#23
Nitrobenzene-d5
Concen: 16.845 ng
RT: 9.069 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

Instrument :

BNA_M

ClientSampleId :

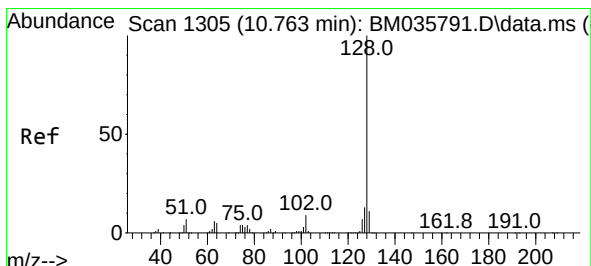
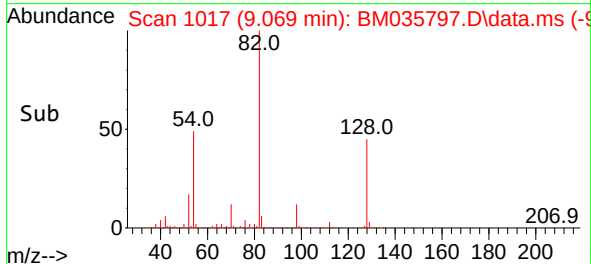
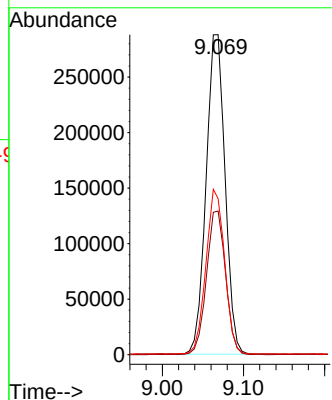
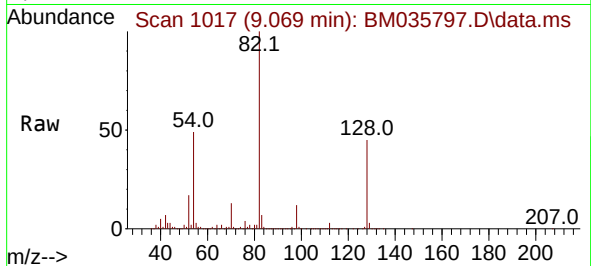
NB-08-070822

Tgt Ion: 82 Resp: 466700
Ion Ratio Lower Upper
82 100
128 44.9 33.7 50.5
54 48.7 43.2 64.8

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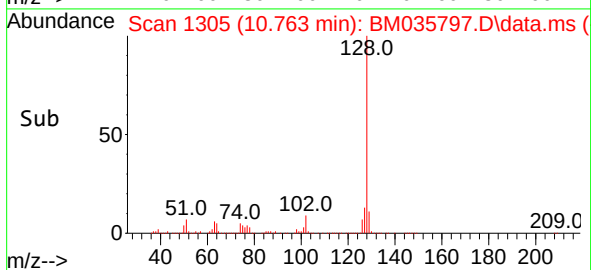
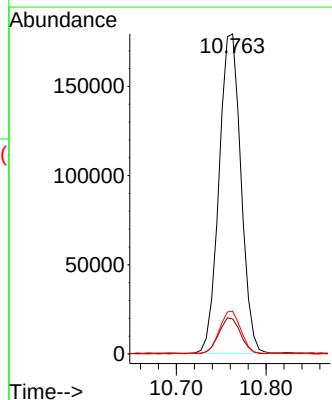
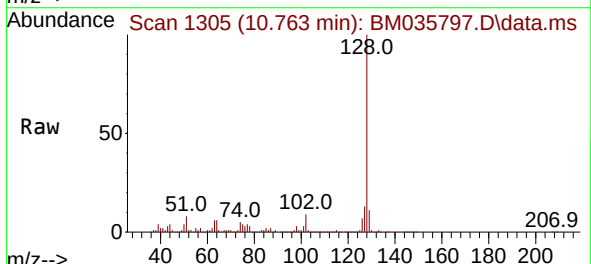
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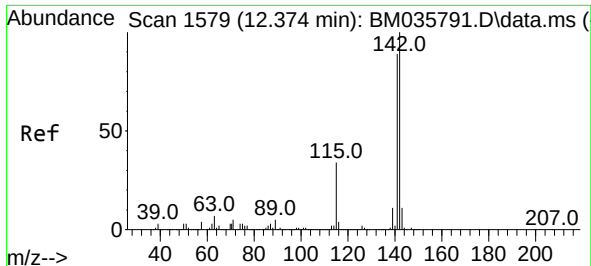
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022



#31
Naphthalene
Concen: 3.788 ng
RT: 10.763 min Scan# 1305
Delta R.T. -0.000 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

Tgt Ion:128 Resp: 303046
Ion Ratio Lower Upper
128 100
129 11.0 8.7 13.1
127 13.4 10.6 16.0





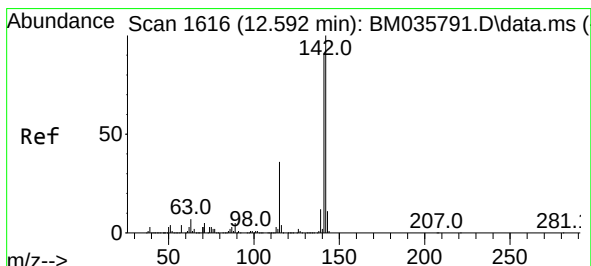
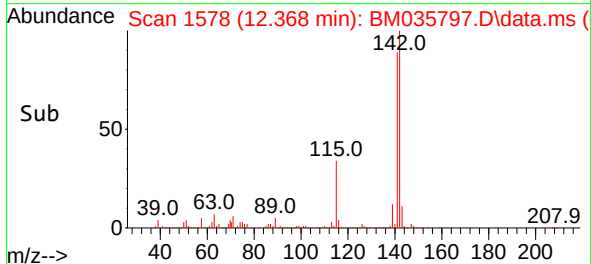
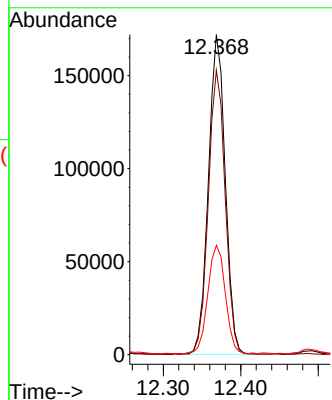
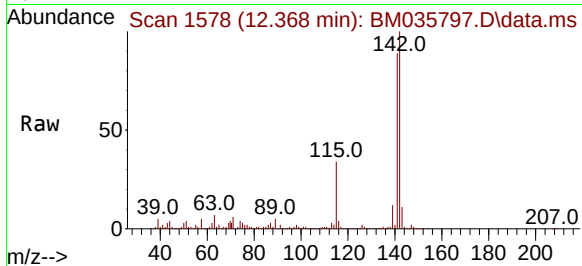
#37
2-Methylnaphthalene
Concen: 4.924 ng
RT: 12.368 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

Instrument :
BNA_M
ClientSampleId :
NB-08-070822

Tgt Ion:142 Resp: 25909
Ion Ratio Lower Upper
142 100
141 88.8 72.4 108.6
115 34.2 29.6 44.4

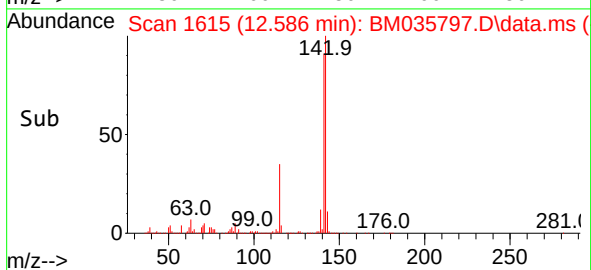
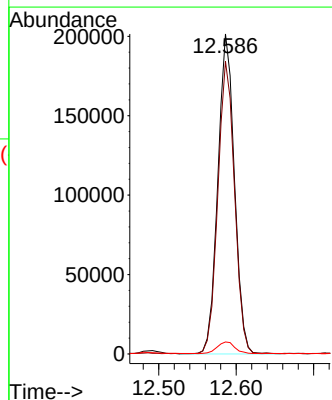
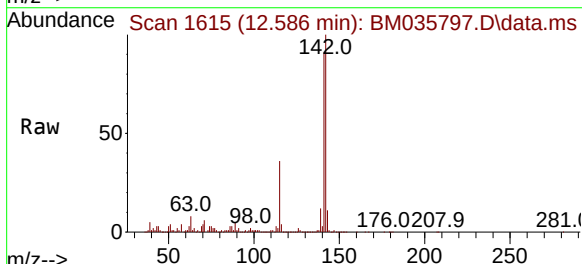
Manual Integrations
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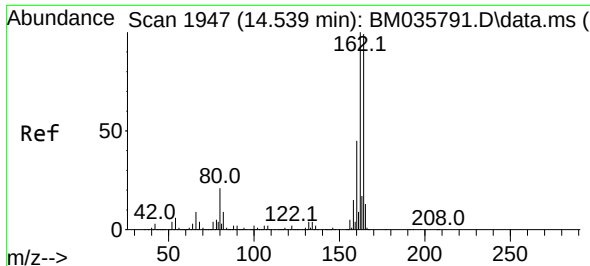
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022



#38
1-Methylnaphthalene
Concen: 5.856 ng
RT: 12.586 min Scan# 1615
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

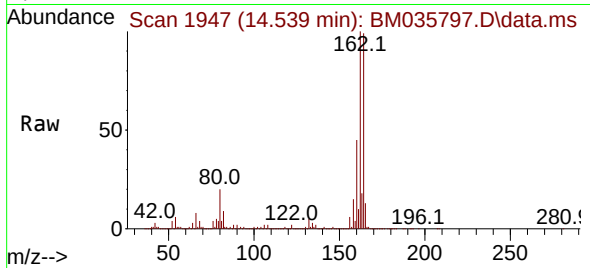
Tgt Ion:142 Resp: 300148
Ion Ratio Lower Upper
142 100
141 91.5 75.0 112.4
116 3.7 3.4 5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.539 min Scan# 1947
Delta R.T. -0.000 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

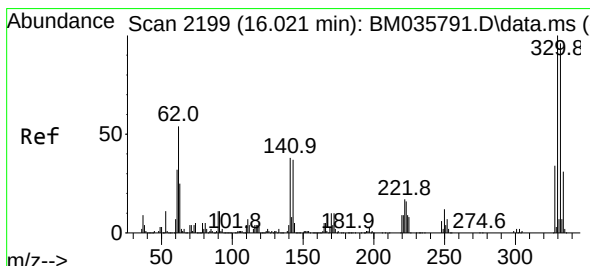
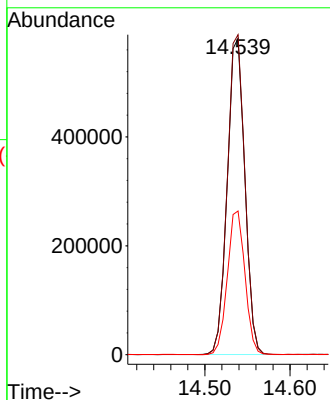
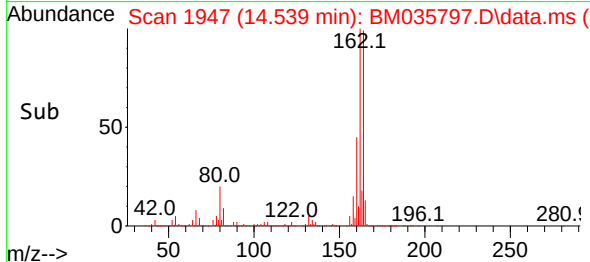
Instrument :
BNA_M
ClientSampleId :
NB-08-070822



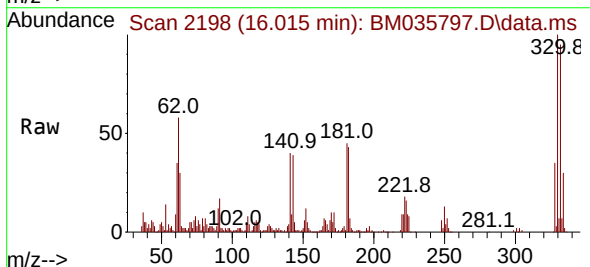
Tgt Ion:164 Resp: 83182
Ion Ratio Lower Upper
164 100
162 101.2 83.0 124.6
160 45.5 37.0 55.4

Manual Integrations
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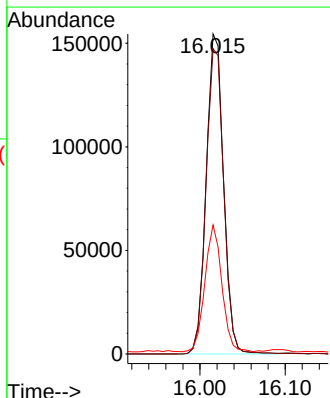
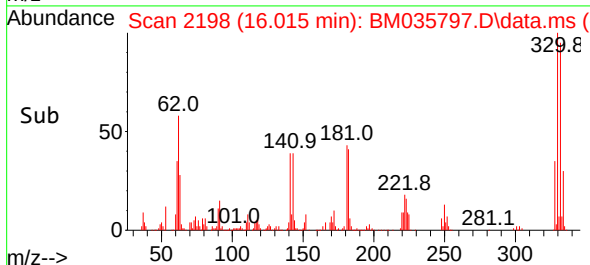
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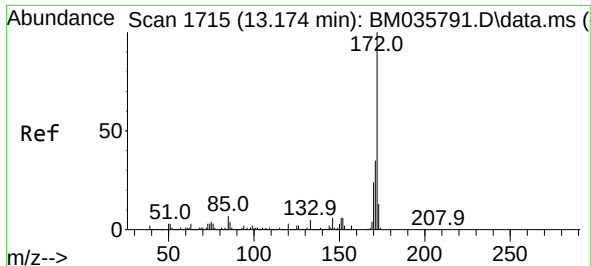


#42
2,4,6-Tribromophenol
Concen: 25.927 ng
RT: 16.015 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57



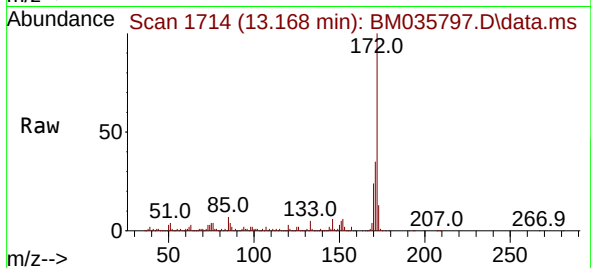
Tgt Ion:330 Resp: 219012
Ion Ratio Lower Upper
330 100
332 97.0 77.0 115.4
141 38.8 35.3 52.9





#45
2-Fluorobiphenyl
Concen: 16.113 ng
RT: 13.168 min Scan# 1714
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

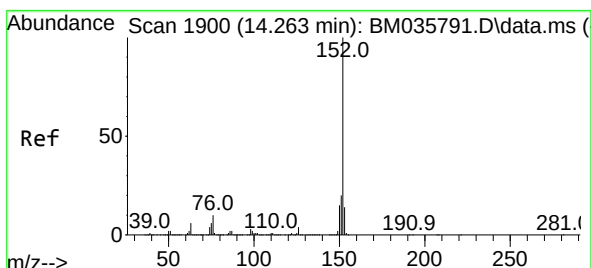
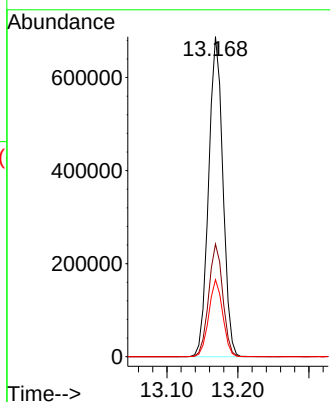
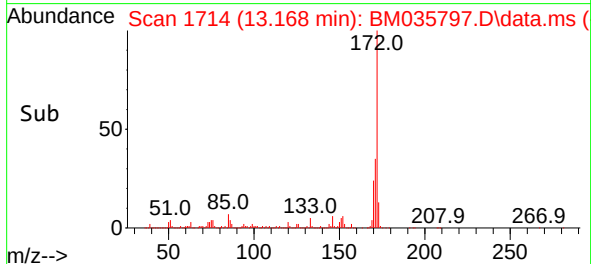
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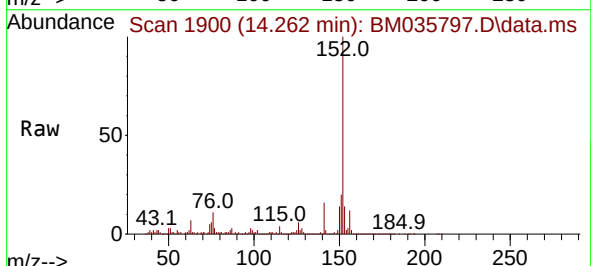
Tgt Ion:172 Resp: 961049
Ion Ratio Lower Upper
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171 35.2 28.5 42.7
170 24.1 18.7 28.1

Manual Integrations
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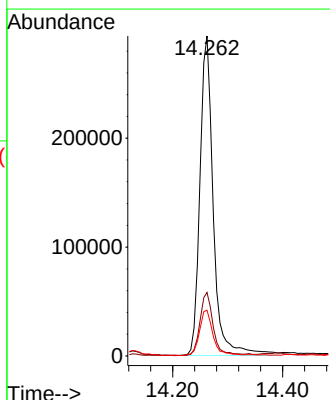
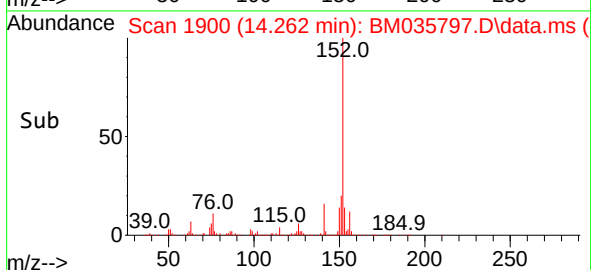
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022

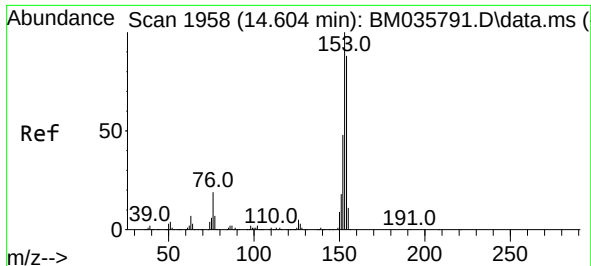


#49
Acenaphthylene
Concen: 6.796 ng
RT: 14.262 min Scan# 1900
Delta R.T. -0.001 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57



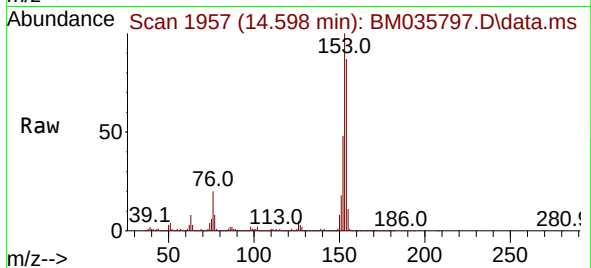
Tgt Ion:152 Resp: 496887
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.2
153 14.3 10.5 15.7





#52
Acenaphthene
Concen: 15.788 ng
RT: 14.598 min Scan# 1958
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

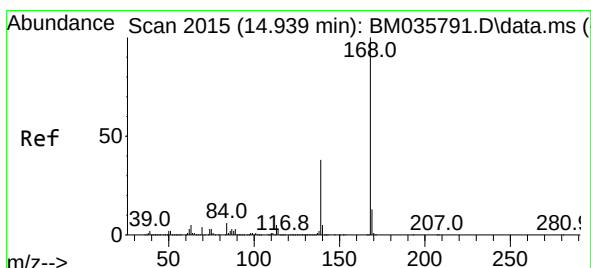
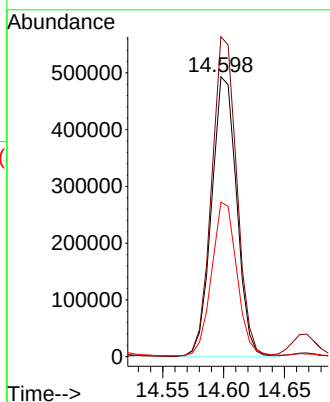
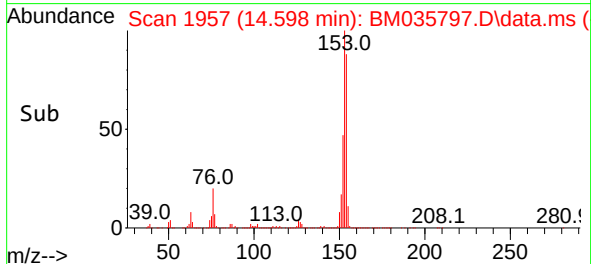
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BNA_M
ClientSampleId :
NB-08-070822



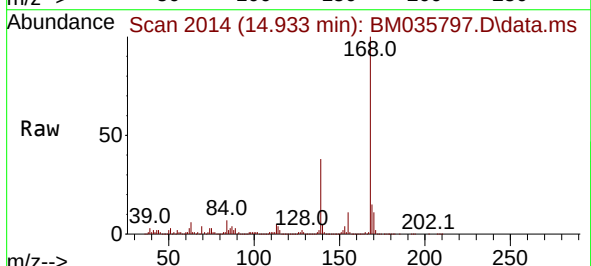
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Ion Ratio Lower Upper
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153 114.4 91.0 136.6
152 55.3 43.4 65.2

Manual Integrations
APPROVED

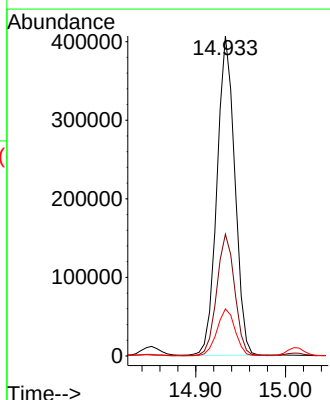
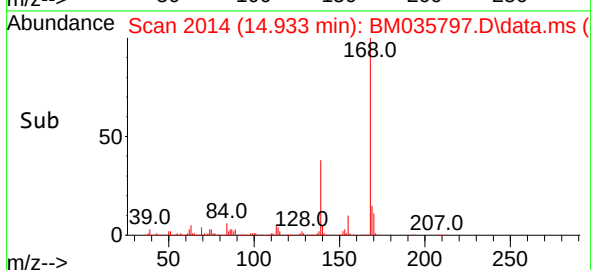
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022

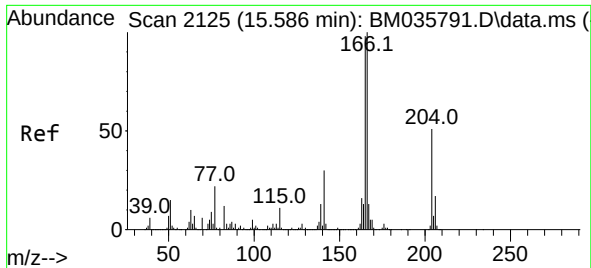


#55
Dibenzofuran
Concen: 7.778 ng
RT: 14.933 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57



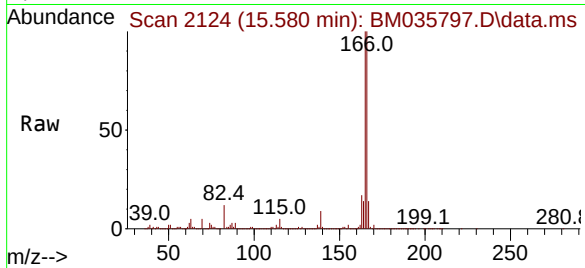
Tgt Ion:168 Resp: 561242
Ion Ratio Lower Upper
168 100
139 38.1 32.2 48.2
169 14.7 10.6 16.0





#58
Fluorene
Concen: 16.287 ng
RT: 15.580 min Scan# 2125
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

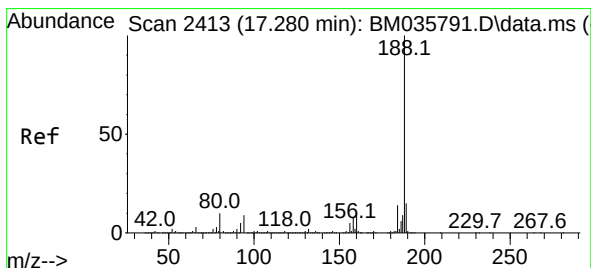
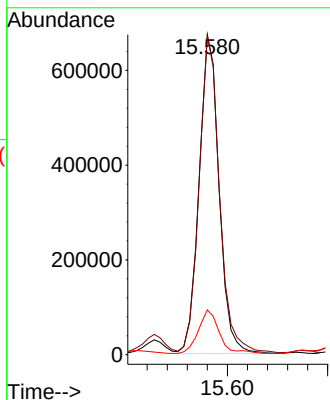
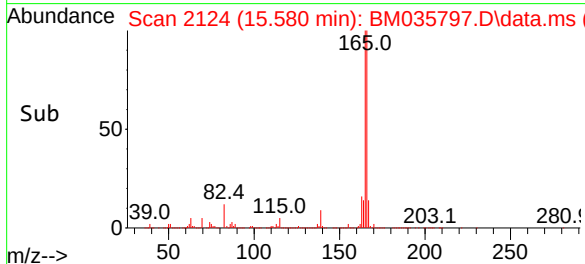
Instrument :
BNA_M
ClientSampleId :
NB-08-070822



Tgt Ion:166 Resp: 93243
Ion Ratio Lower Upper
166 100
165 99.7 79.4 119.2
167 14.0 10.6 16.0

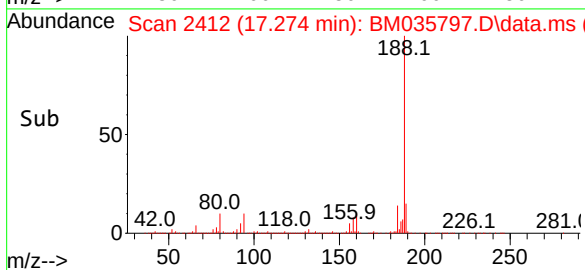
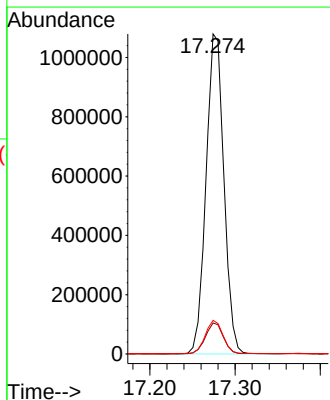
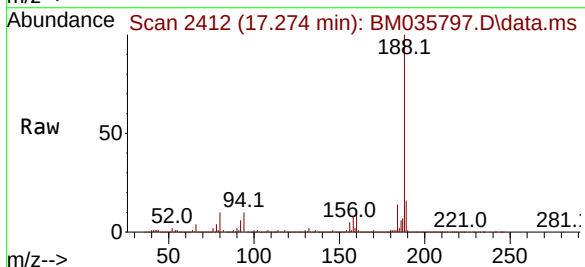
Manual Integrations
APPROVED

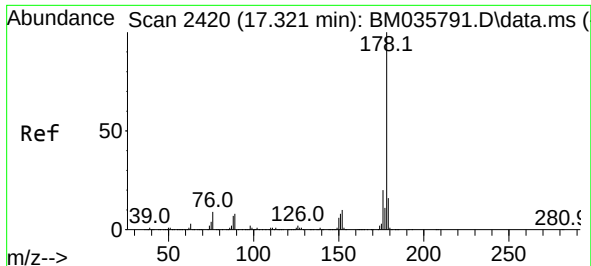
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.274 min Scan# 2412
Delta R.T. -0.006 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

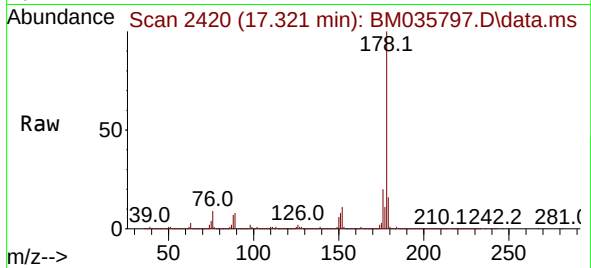
Tgt Ion:188 Resp: 1573543
Ion Ratio Lower Upper
188 100
94 9.7 7.0 10.4
80 10.5 7.6 11.4





#71
Phenanthrene
Concen: 80.834 ng
RT: 17.321 min Scan# 2420
Delta R.T. 0.000 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

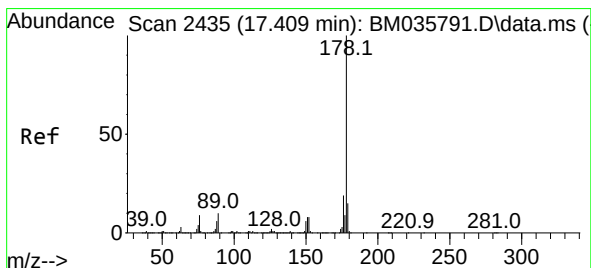
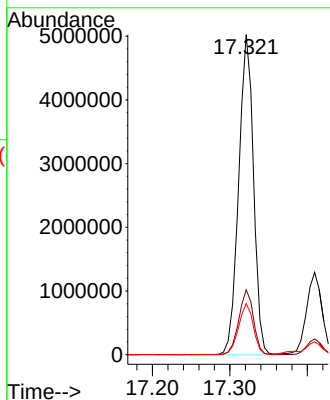
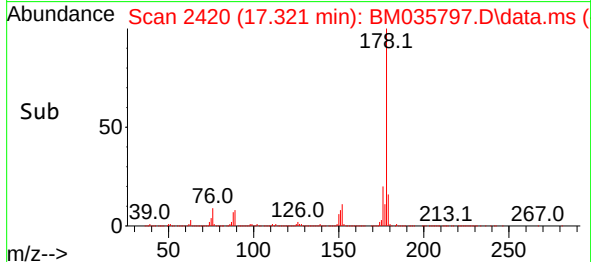
Instrument :
BNA_M
ClientSampleId :
NB-08-070822



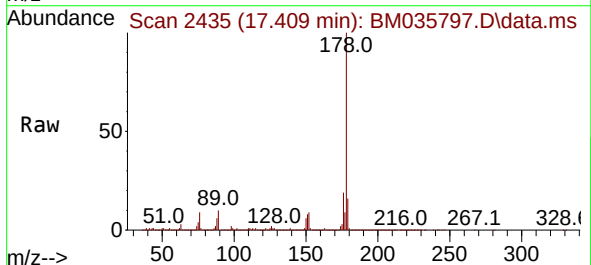
Tgt Ion:178 Resp: 668196
Ion Ratio Lower Upper
178 100
176 20.3 15.4 23.0
179 15.9 12.4 18.6

Manual Integrations
APPROVED

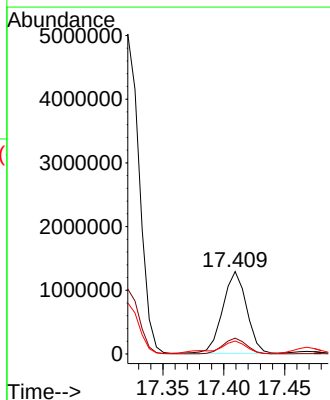
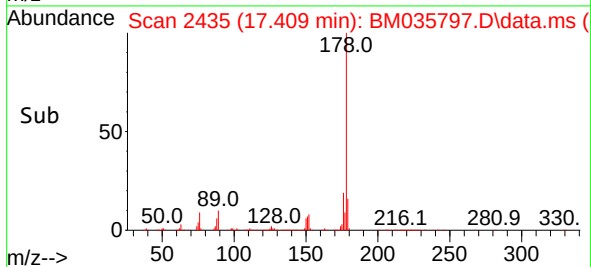
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022

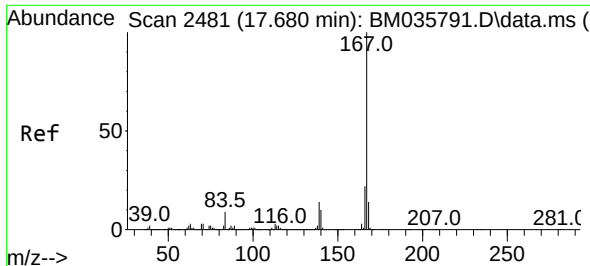


#72
Anthracene
Concen: 22.052 ng
RT: 17.409 min Scan# 2435
Delta R.T. 0.000 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57



Tgt Ion:178 Resp: 1753639
Ion Ratio Lower Upper
178 100
176 19.3 15.0 22.4
179 15.8 12.2 18.2





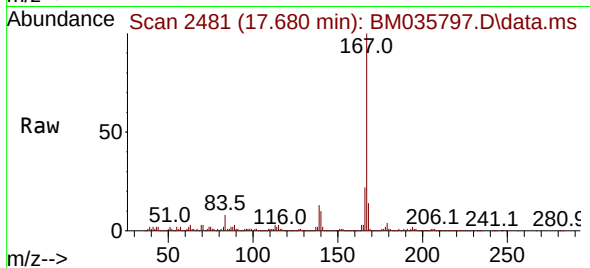
#73
 Carbazole
 Concen: 7.856 ng
 RT: 17.680 min Scan# 2481
 Delta R.T. -0.000 min
 Lab File: BM035797.D
 Acq: 13 Jul 2022 16:57

Instrument :

BNA_M

ClientSampleId :

NB-08-070822

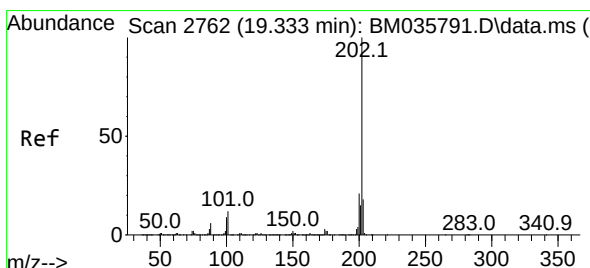
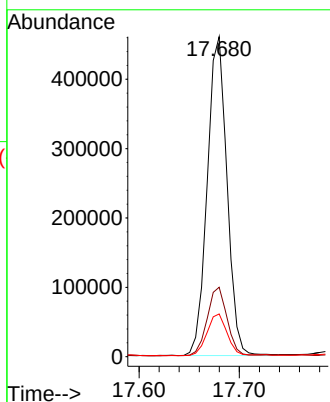
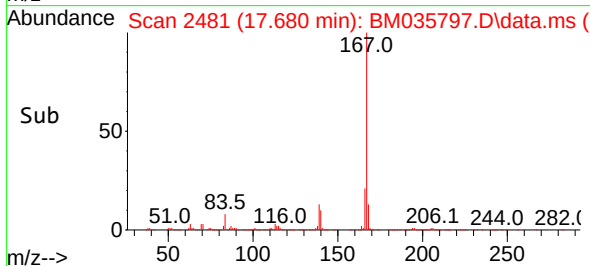


Tgt Ion:167 Resp: 628528
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.8 26.8
 139 13.4 10.9 16.3

Manual Integrations

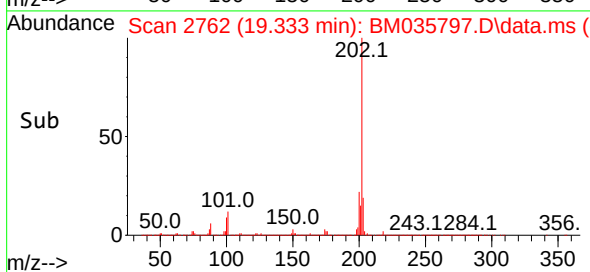
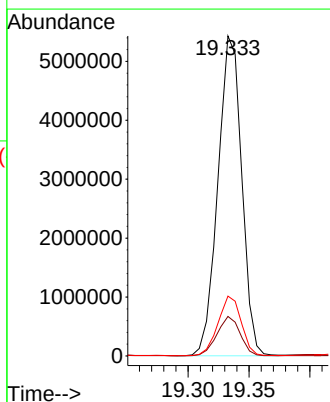
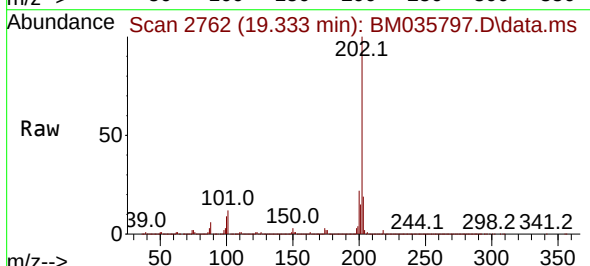
APPROVED

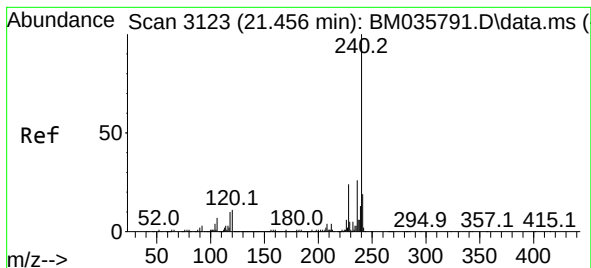
Reviewed By :Christian Giraldo 07/14/2022
 Supervised By :Jagrut Upadhyay 07/14/2022



#75
 Fluoranthene
 Concen: 79.842 ng
 RT: 19.333 min Scan# 2762
 Delta R.T. -0.000 min
 Lab File: BM035797.D
 Acq: 13 Jul 2022 16:57

Tgt Ion:202 Resp: 7381077
 Ion Ratio Lower Upper
 202 100
 101 12.3 0.0 30.6
 203 18.7 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.456 min Scan# 3123

Delta R.T. 0.000 min

Lab File: BM035797.D

Acq: 13 Jul 2022 16:57

Instrument :

BNA_M

ClientSampleId :

NB-08-070822

Tgt Ion:240 Resp: 1422910

Ion Ratio Lower Upper

240 100

120 12.5 9.4 14.0

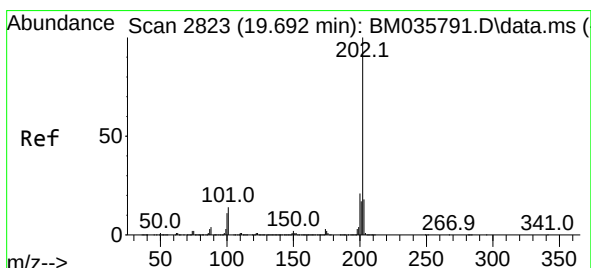
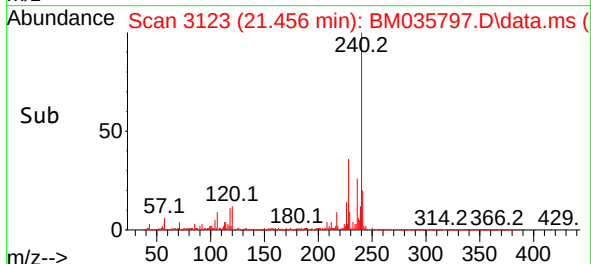
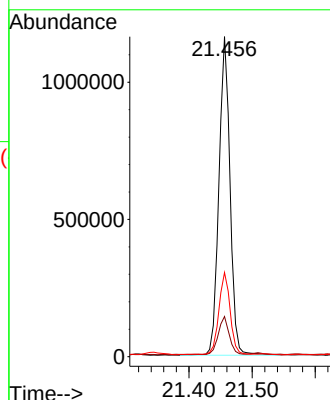
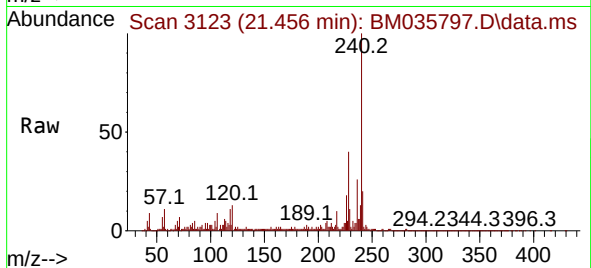
236 26.3 20.6 30.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 07/14/2022

Supervised By :Jagrut Upadhyay 07/14/2022



#78

Pyrene

Concen: 75.403 ng

RT: 19.697 min Scan# 2824

Delta R.T. 0.005 min

Lab File: BM035797.D

Acq: 13 Jul 2022 16:57

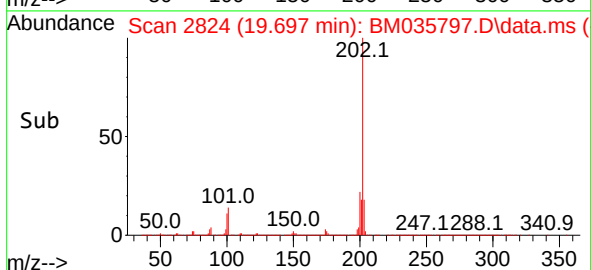
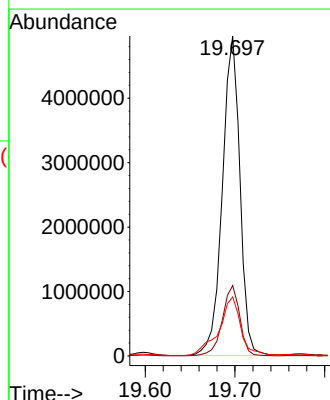
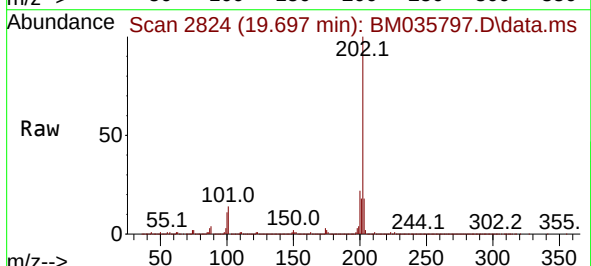
Tgt Ion:202 Resp: 6737901

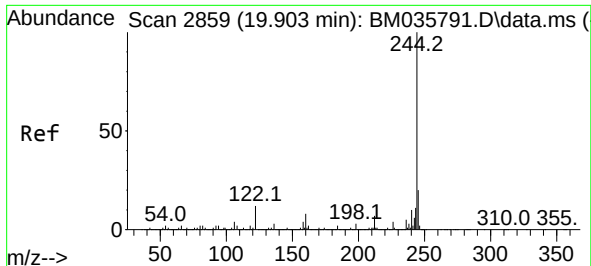
Ion Ratio Lower Upper

202 100

200 22.0 16.7 25.1

203 18.4 13.9 20.9





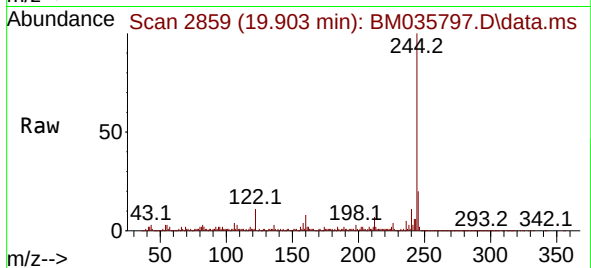
#79
 Terphenyl-d14
 Concen: 16.173 ng
 RT: 19.903 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BM035797.D
 Acq: 13 Jul 2022 16:57

Instrument :

BNA_M

ClientSampleId :

NB-08-070822

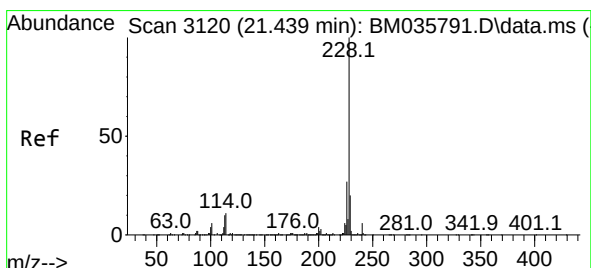
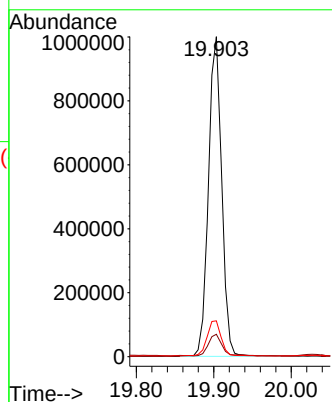
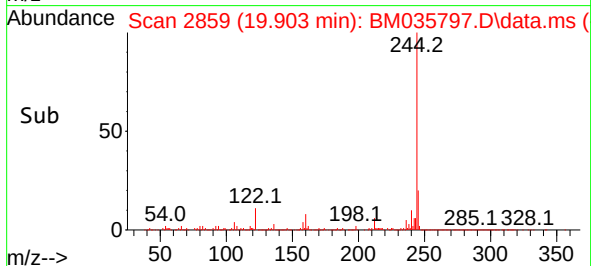


Tgt Ion:244 Resp: 1185494
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.2 9.4
 122 11.2 8.3 12.5

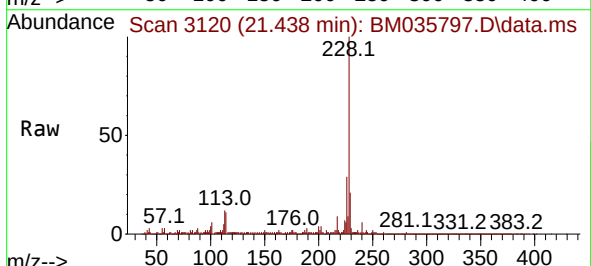
Manual Integrations

APPROVED

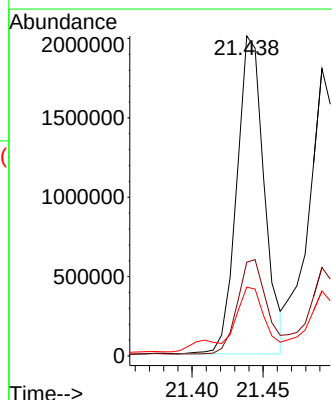
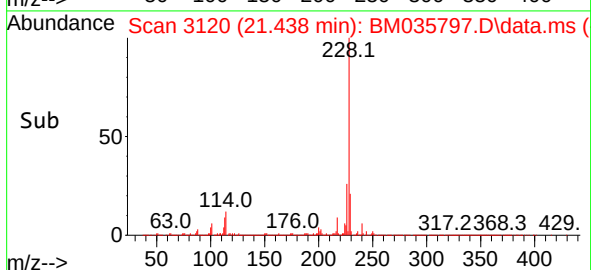
Reviewed By :Christian Giraldo 07/14/2022
 Supervised By :Jagrut Upadhyay 07/14/2022

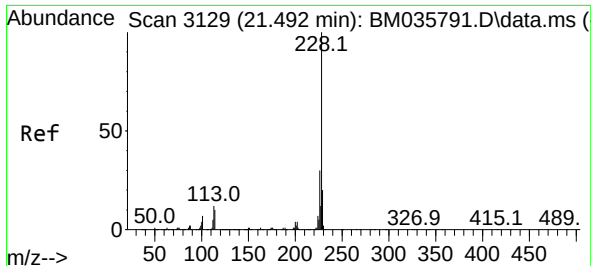


#81
 Benzo(a)anthracene
 Concen: 30.179 ng
 RT: 21.438 min Scan# 3120
 Delta R.T. -0.001 min
 Lab File: BM035797.D
 Acq: 13 Jul 2022 16:57



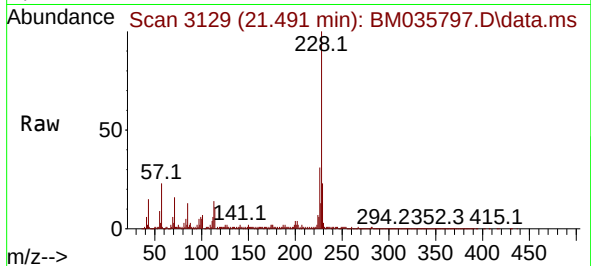
Tgt Ion:228 Resp: 2693850
 Ion Ratio Lower Upper
 228 100
 226 29.3 22.3 33.5
 229 21.5 15.8 23.6





#83
Chrysene
Concen: 29.069 ng
RT: 21.491 min Scan# 3129
Delta R.T. -0.001 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

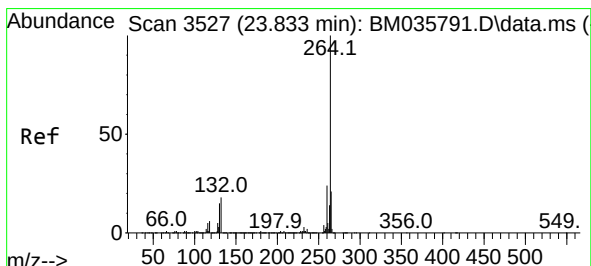
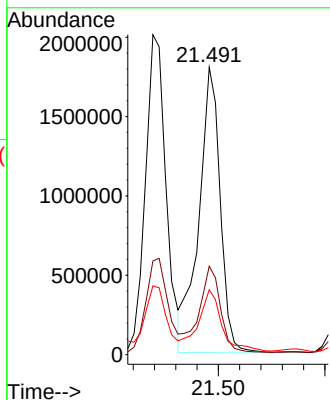
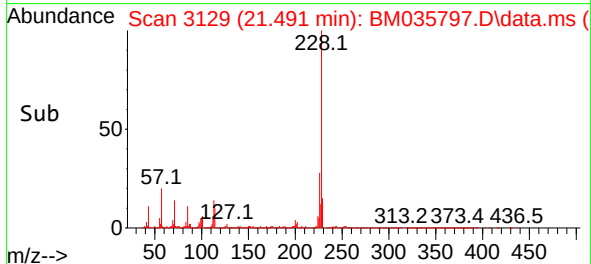
Instrument :
BNA_M
ClientSampleId :
NB-08-070822



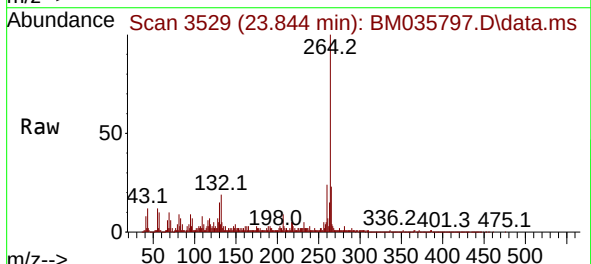
Tgt Ion:228 Resp: 2505130
Ion Ratio Lower Upper
228 100
226 30.8 24.4 36.6
229 22.6 15.8 23.8

Manual Integrations
APPROVED

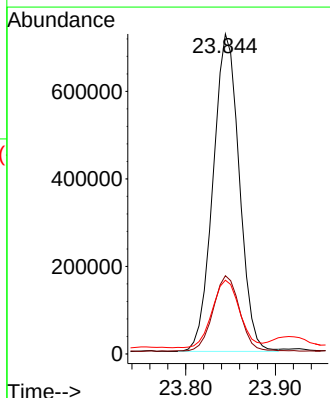
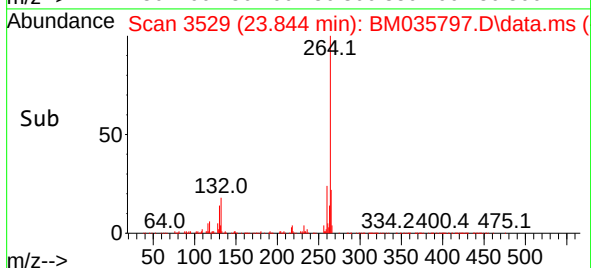
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022

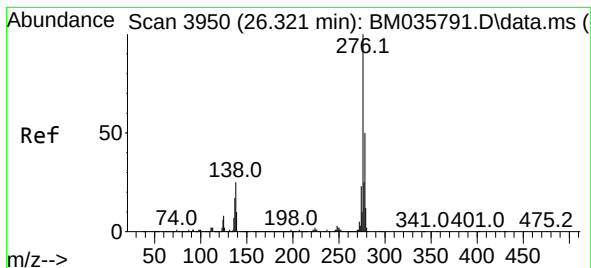


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.844 min Scan# 3529
Delta R.T. 0.011 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57



Tgt Ion:264 Resp: 1471663
Ion Ratio Lower Upper
264 100
260 24.5 18.9 28.3
265 23.1 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.901 ng

RT: 26.332 min Scan# 3952

Delta R.T. 0.011 min

Lab File: BM035797.D

Acq: 13 Jul 2022 16:57

Instrument :

BNA_M

ClientSampleId :

NB-08-070822

Tgt Ion:276 Resp: 1168238

Ion Ratio Lower Upper

276 100

138 22.8 20.2 30.4

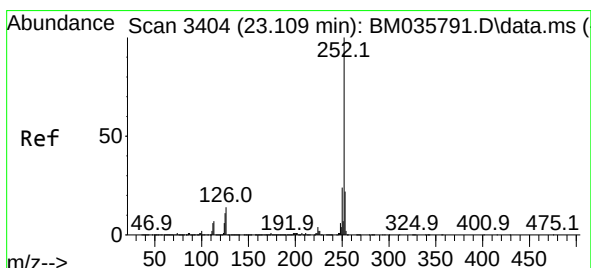
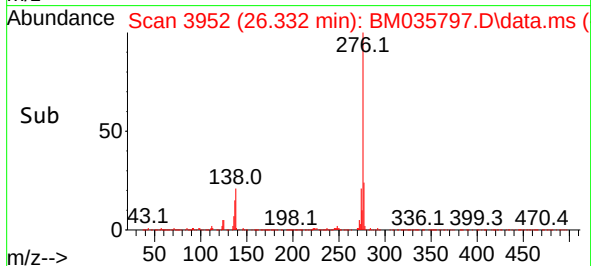
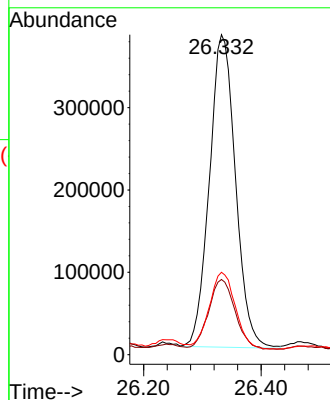
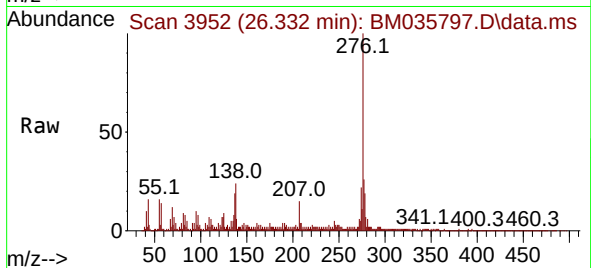
277 24.6 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 07/14/2022

Supervised By :Jagrut Upadhyay 07/14/2022



#88

Benzo(b)fluoranthene

Concen: 28.823 ng m

RT: 23.121 min Scan# 3406

Delta R.T. 0.012 min

Lab File: BM035797.D

Acq: 13 Jul 2022 16:57

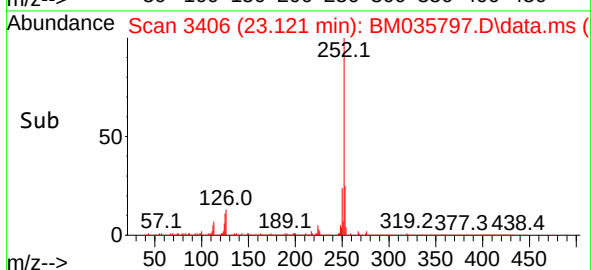
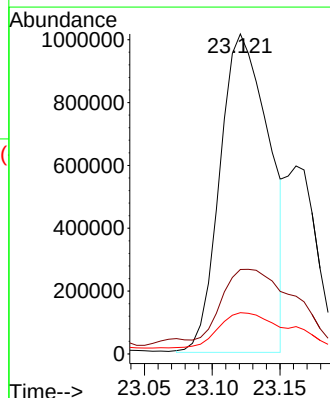
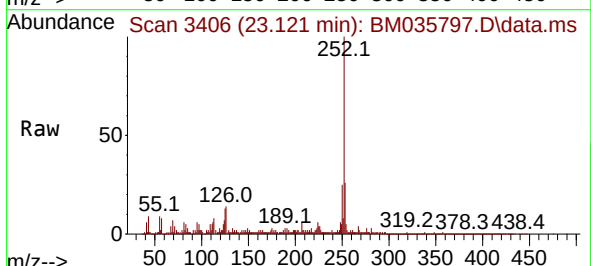
Tgt Ion:252 Resp: 2561993

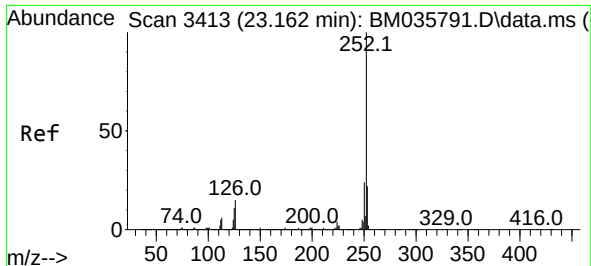
Ion Ratio Lower Upper

252 100

253 26.4 17.6 26.4#

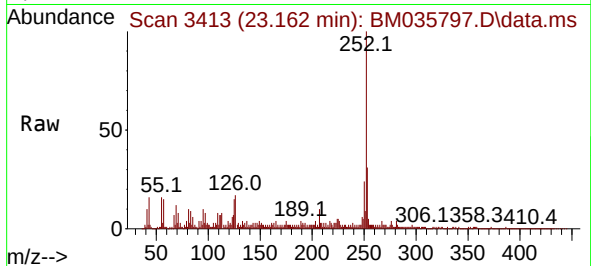
125 12.9 7.6 11.4#





#89
Benzo(k)fluoranthene
Concen: 10.519 ng m
RT: 23.162 min Scan# 3413
Delta R.T. -0.000 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57

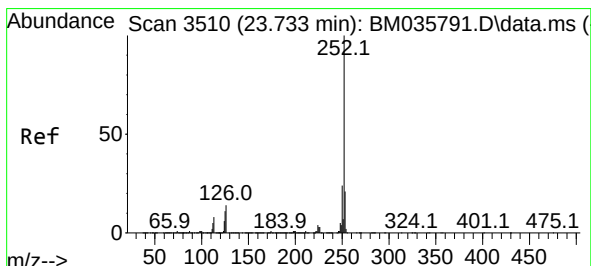
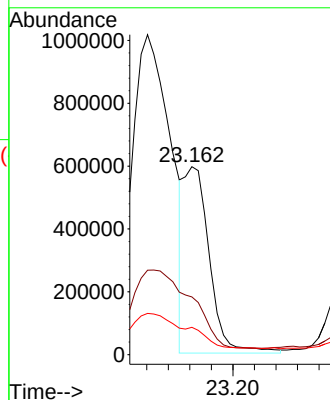
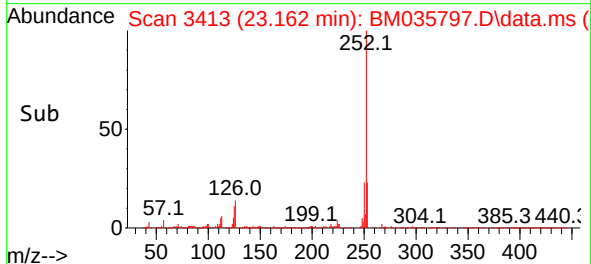
Instrument :
BNA_M
ClientSampleId :
NB-08-070822



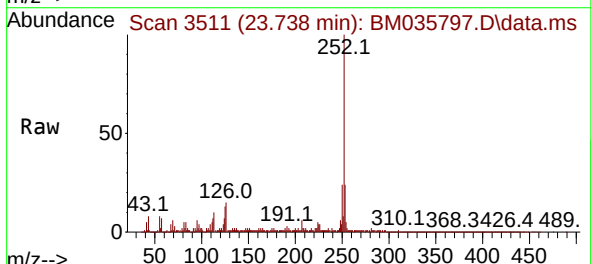
Tgt Ion:252 Resp: 977970
Ion Ratio Lower Upper
252 100
253 30.7 17.5 26.3
125 14.5 7.6 11.4

Manual Integrations
APPROVED

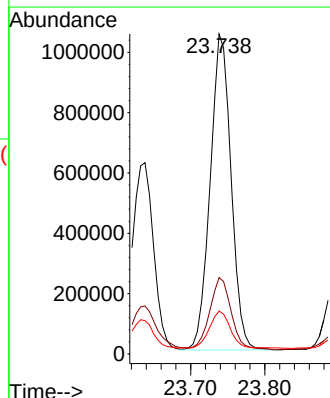
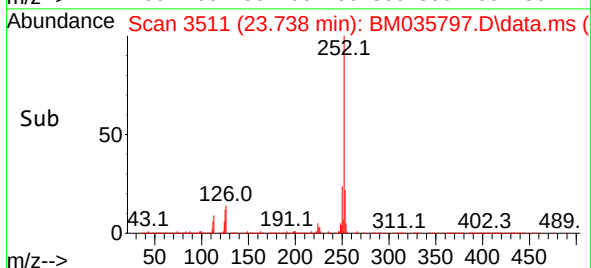
Reviewed By :Christian Giraldo 07/14/2022
Supervised By :Jagrut Upadhyay 07/14/2022

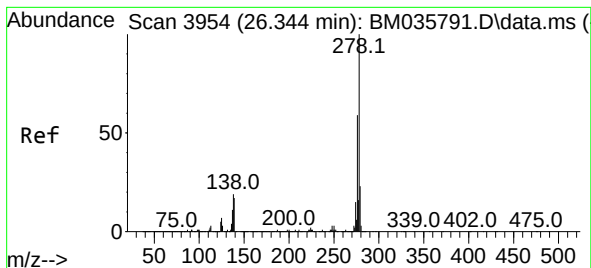


#90
Benzo(a)pyrene
Concen: 27.604 ng
RT: 23.738 min Scan# 3511
Delta R.T. 0.005 min
Lab File: BM035797.D
Acq: 13 Jul 2022 16:57



Tgt Ion:252 Resp: 2052934
Ion Ratio Lower Upper
252 100
253 23.9 17.2 25.8
125 13.4 8.7 13.1





#91

Dibenzo(a,h)anthracene

Concen: 3.509 ng

RT: 26.350 min Scan# 3955

Delta R.T. 0.006 min

Lab File: BM035797.D

Acq: 13 Jul 2022 16:57

Instrument :

BNA_M

ClientSampleId :

NB-08-070822

Tgt Ion:278 Resp: 311914

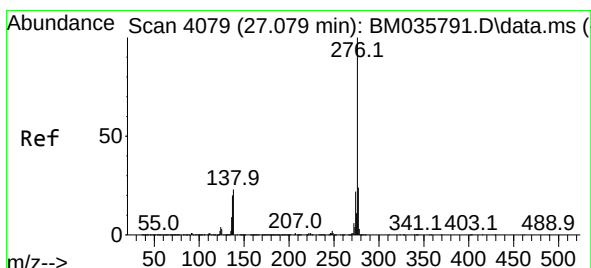
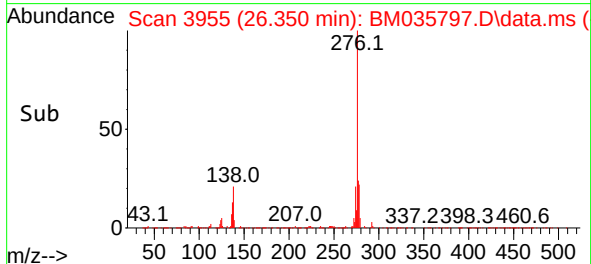
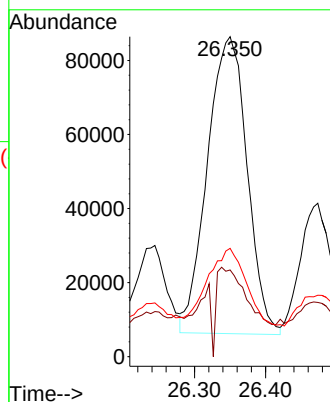
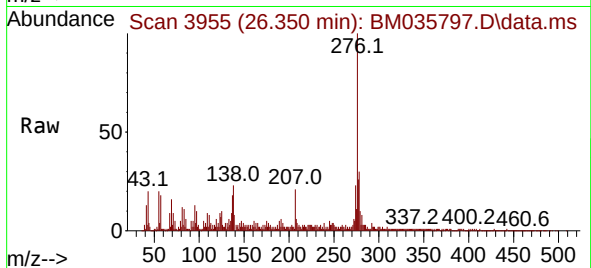
Ion	Ratio	Lower	Upper
278	100		
139	27.1	12.9	19.3
279	33.8	18.7	28.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 07/14/2022

Supervised By :Jagrut Upadhyay 07/14/2022



#92

Benzo(g,h,i)perylene

Concen: 13.566 ng

RT: 27.103 min Scan# 4083

Delta R.T. 0.023 min

Lab File: BM035797.D

Acq: 13 Jul 2022 16:57

Tgt Ion:276 Resp: 1189991

Ion	Ratio	Lower	Upper
276	100		
277	25.1	18.7	28.1
138	23.3	17.6	26.4

