

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM111022\
 Data File : BM037456.D
 Acq On : 10 Nov 2022 17:58
 Operator : CG/JU
 Sample : N5378-06
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SB-15-20221028-5.5-6.5

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 11/11/2022
 Supervised By : Jagrut Upadhyay 11/11/2022

Quant Time: Nov 11 00:18:30 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 09 02:08:14 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.810	152	295757	20.000	ng	-0.01
21) Naphthalene-d8	10.610	136	1203413	20.000	ng	-0.02
39) Acenaphthene-d10	14.451	164	753477	20.000	ng	-0.01
64) Phenanthrene-d10	17.192	188	1524331	20.000	ng	-0.01
76) Chrysene-d12	21.380	240	1589239	20.000	ng	0.00
86) Perylene-d12	23.721	264	1608661	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	1442203	84.245	ng	0.00
7) Phenol-d6	6.998	99	1895105	81.565	ng	0.00
23) Nitrobenzene-d5	8.981	82	1174922	49.258	ng	-0.02
42) 2,4,6-Tribromophenol	15.939	330	916086	103.169	ng	-0.02
45) 2-Fluorobiphenyl	13.075	172	2686239	47.370	ng	-0.02
79) Terphenyl-d14	19.821	244	3915162	44.178	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.657	128	324369	4.758	ng	99
37) 2-Methylnaphthalene	12.269	142	238817	5.170	ng	99
38) 1-Methylnaphthalene	12.492	142	329284	7.295	ng	99
49) Acenaphthylene	14.175	152	242964	3.235	ng	# 94
52) Acenaphthene	14.510	154	567196	12.214	ng	100
55) Dibenzofuran	14.845	168	346179	4.840	ng	# 92
58) Fluorene	15.498	166	728050	12.195	ng	99
71) Phenanthrene	17.239	178	12699459	134.285	ng	95
72) Anthracene	17.327	178	2081426	23.248	ng	99
73) Carbazole	17.604	167	946548	11.526	ng	99
75) Fluoranthene	19.257	202	12973449	129.776	ng	93
78) Pyrene	19.621	202	13591911	111.220	ng	# 90
81) Benzo(a)anthracene	21.368	228	7814768	69.070	ng	96
83) Chrysene	21.421	228	7459152	68.428	ng	95
87) Indeno(1,2,3-cd)pyrene	26.138	276	3665189	27.827	ng	# 94
88) Benzo(b)fluoranthene	23.015	252	8175657m	73.205	ng	
89) Benzo(k)fluoranthene	23.056	252	2533313m	22.238	ng	
90) Benzo(a)pyrene	23.621	252	5947442	65.359	ng	97
91) Dibenzo(a,h)anthracene	26.144	278	1089504	9.961	ng	93
92) Benzo(g,h,i)perylene	26.891	276	3635165	34.148	ng	98

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

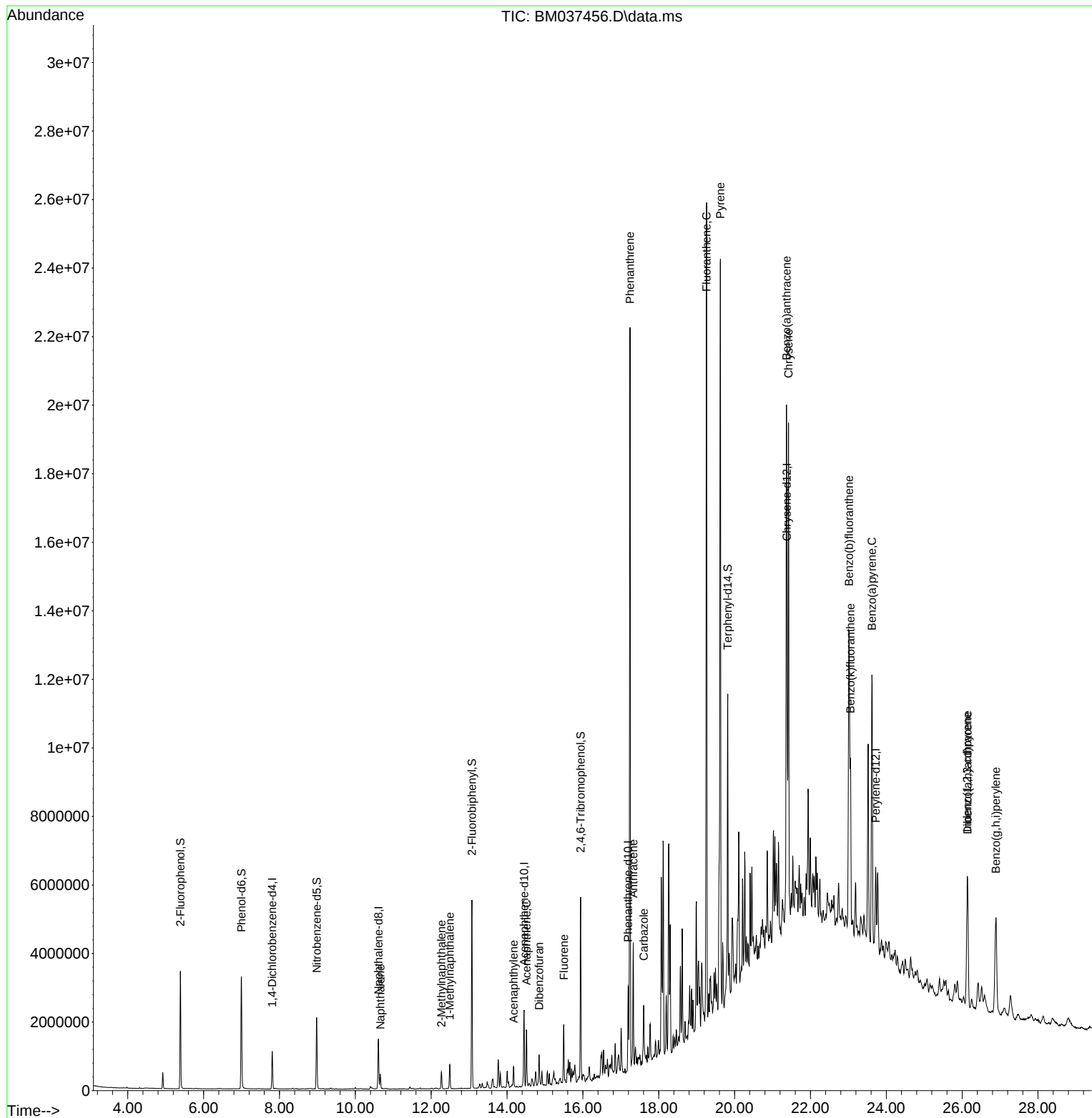
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM111022\
Data File : BM037456.D
Acq On : 10 Nov 2022 17:58
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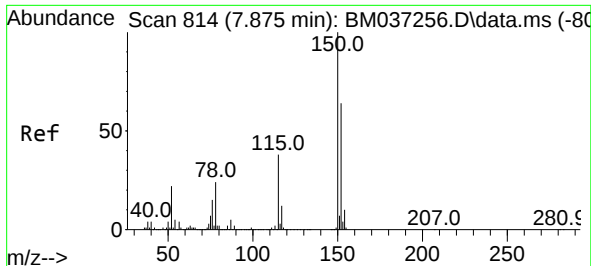
Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5

Quant Time: Nov 11 00:18:30 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102822.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 09 02:08:14 2022
Response via : Initial Calibration

Manual Integrations
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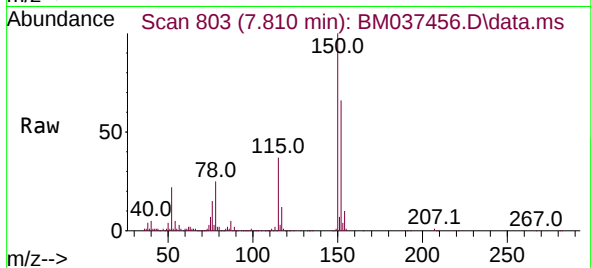
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.810 min Scan# 803
Delta R.T. -0.012 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

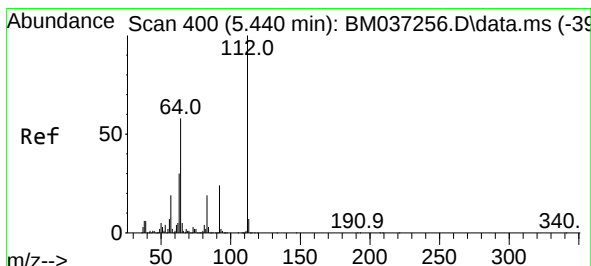
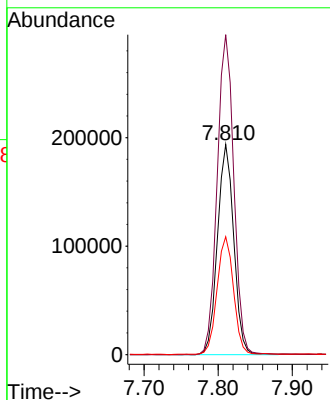
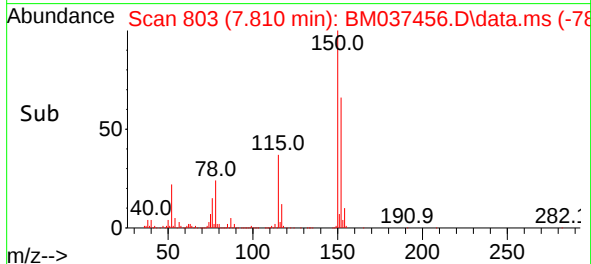
Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5



Tgt Ion:152 Resp: 295752
Ion Ratio Lower Upper
152 100
150 152.3 124.8 187.2
115 56.1 47.0 70.4

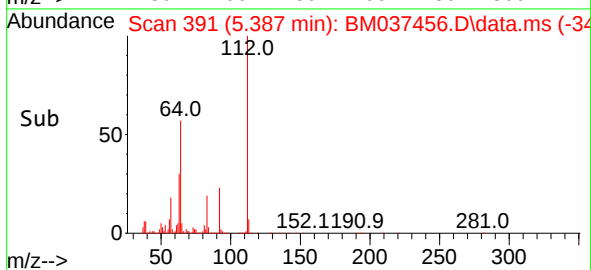
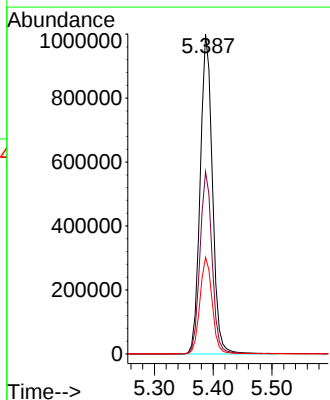
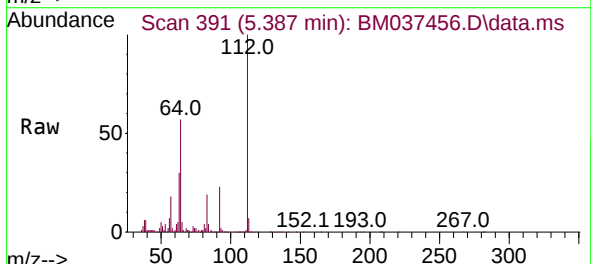
Manual Integrations
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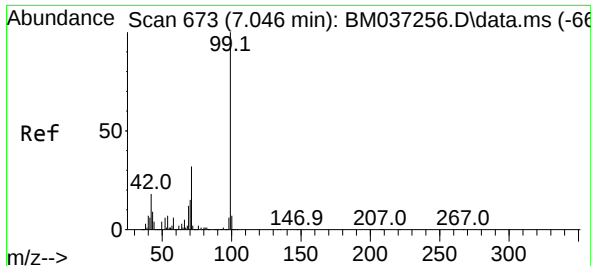
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#5
2-Fluorophenol
Concen: 84.245 ng
RT: 5.387 min Scan# 391
Delta R.T. -0.006 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

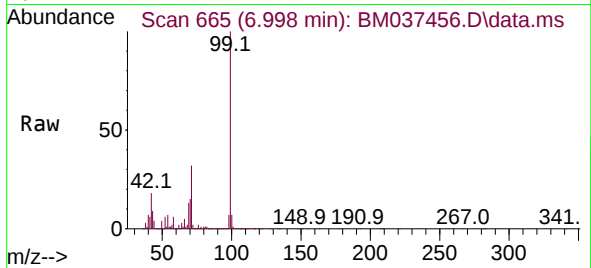
Tgt Ion:112 Resp: 1442203
Ion Ratio Lower Upper
112 100
64 56.9 46.8 70.2
63 30.2 24.4 36.6





#7
Phenol-d6
Concen: 81.565 ng
RT: 6.998 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

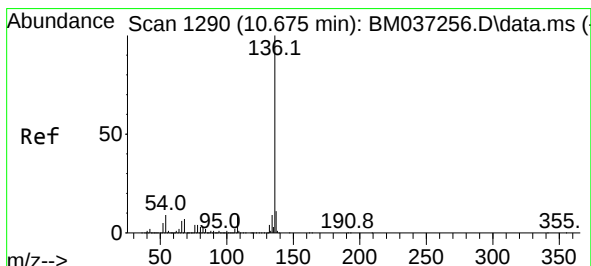
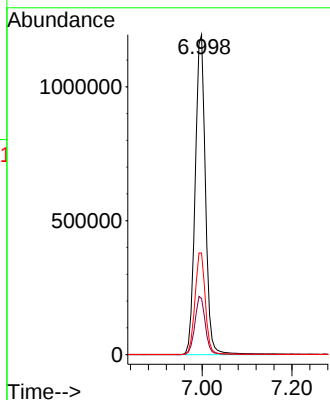
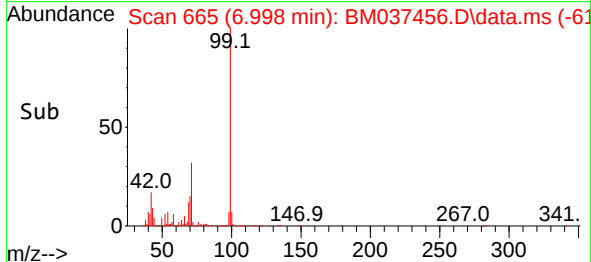
Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5



Tgt Ion: 99 Resp: 1895105
Ion Ratio Lower Upper
99 100
42 17.5 14.8 22.2
71 31.7 25.6 38.4

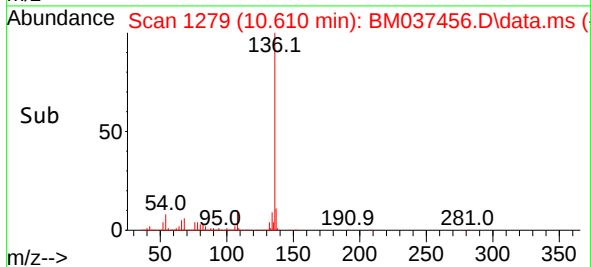
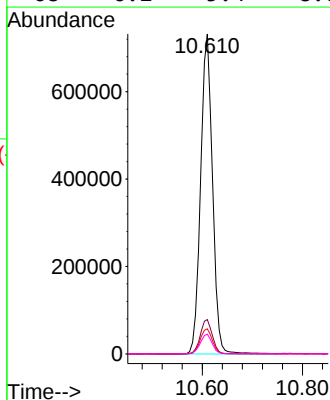
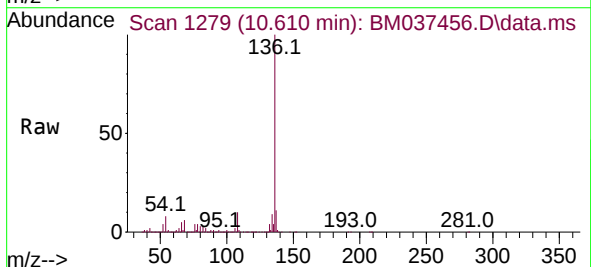
Manual Integrations
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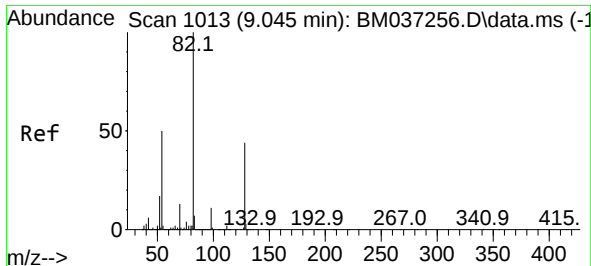
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1279
Delta R.T. -0.018 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

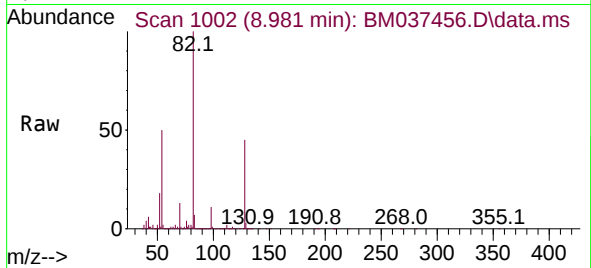
Tgt Ion:136 Resp: 1203413
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.4
54 7.8 7.0 10.4
68 6.2 5.4 8.0





#23
Nitrobenzene-d5
Concen: 49.258 ng
RT: 8.981 min Scan# 1013
Delta R.T. -0.018 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

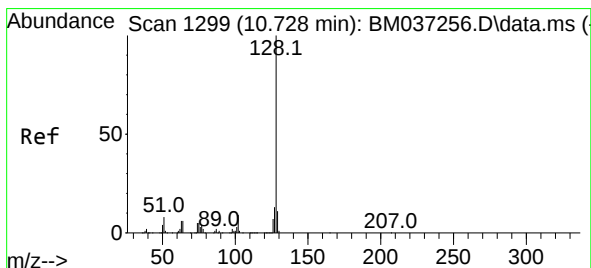
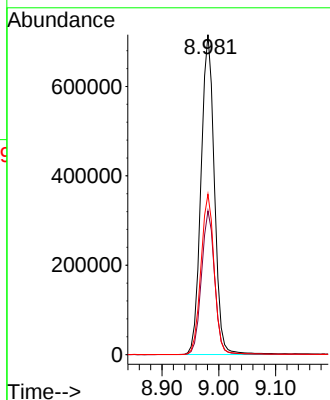
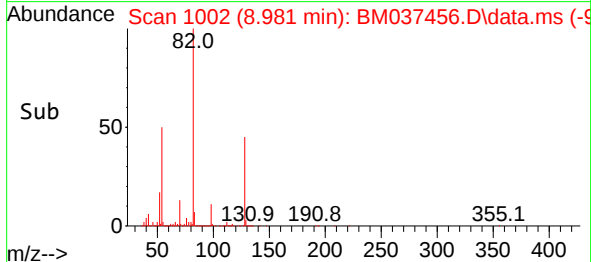
Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5



Tgt Ion: 82 Resp: 1174922
Ion Ratio Lower Upper
82 100
128 44.9 35.2 52.8
54 50.1 40.4 60.6

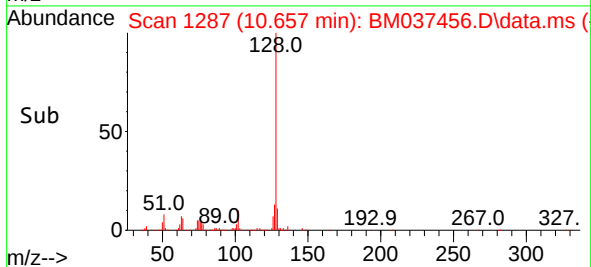
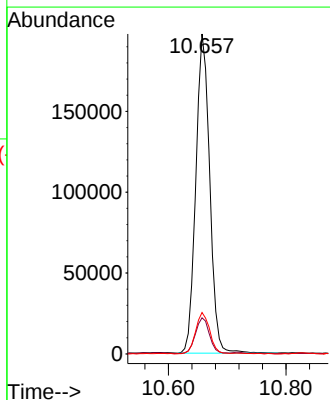
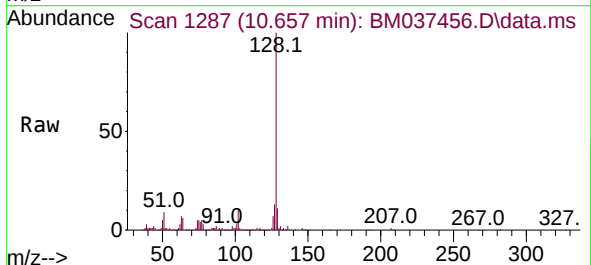
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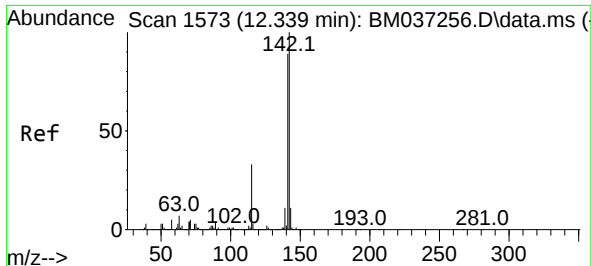
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#31
Naphthalene
Concen: 4.758 ng
RT: 10.657 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

Tgt Ion:128 Resp: 324369
Ion Ratio Lower Upper
128 100
129 11.3 8.7 13.1
127 12.9 10.2 15.2





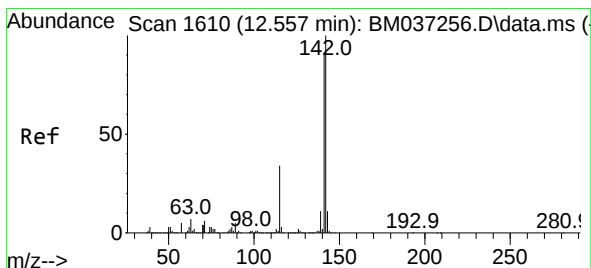
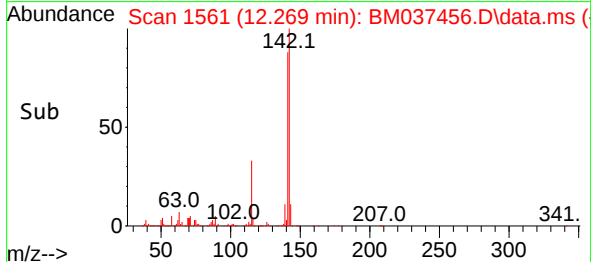
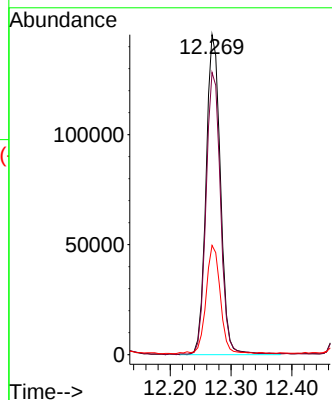
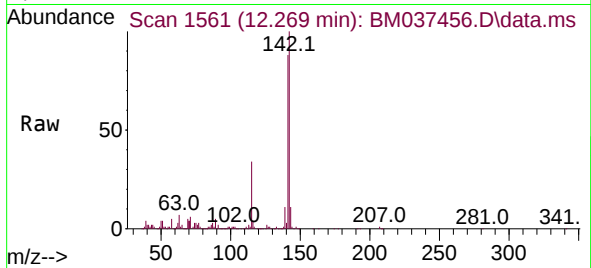
#37
2-Methylnaphthalene
Concen: 5.170 ng
RT: 12.269 min Scan# 1561
Delta R.T. -0.018 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5

Tgt Ion:142 Resp: 238817
Ion Ratio Lower Upper
142 100
141 88.2 71.3 106.9
115 34.2 26.0 39.0

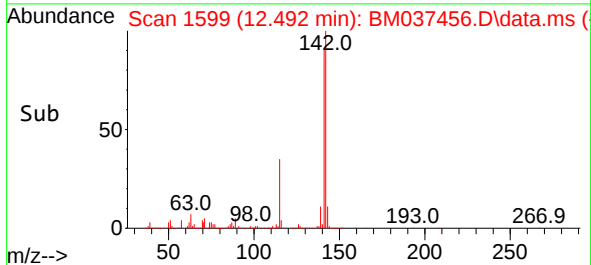
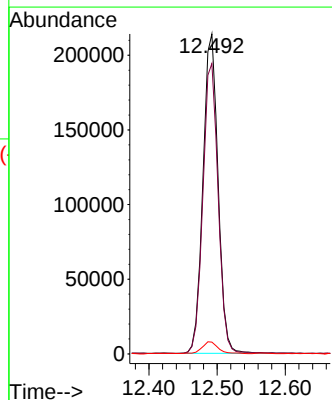
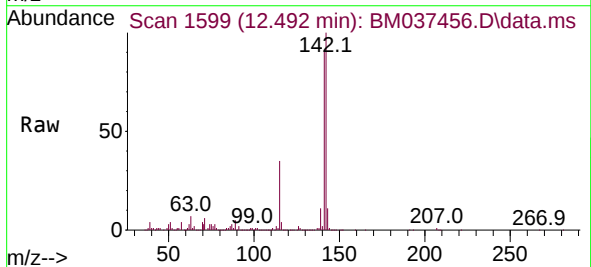
Manual Integrations
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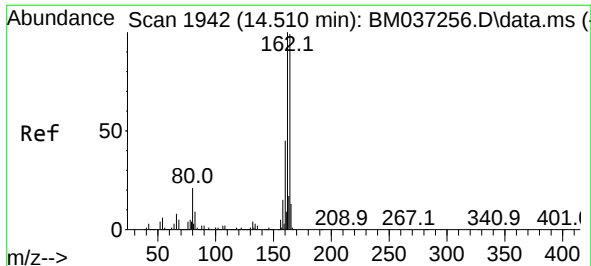
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#38
1-Methylnaphthalene
Concen: 7.295 ng
RT: 12.492 min Scan# 1599
Delta R.T. -0.012 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

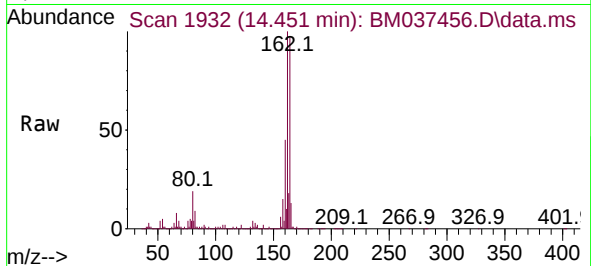
Tgt Ion:142 Resp: 329284
Ion Ratio Lower Upper
142 100
141 90.7 73.0 109.6
116 3.7 2.8 4.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.451 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

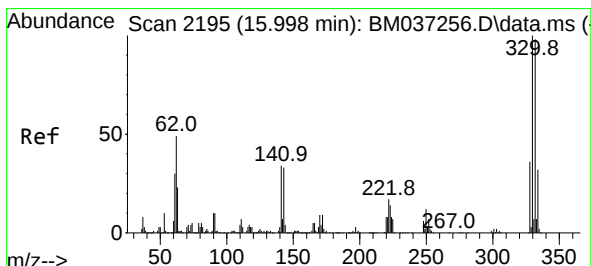
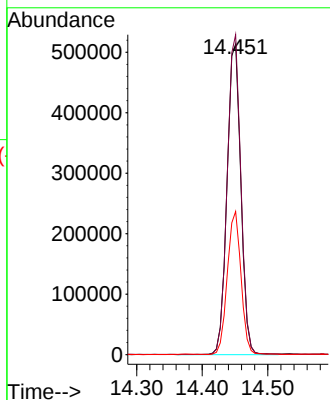
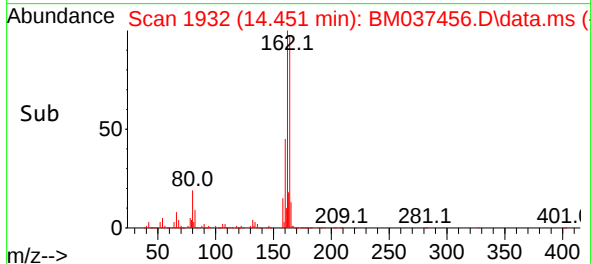
Instrument :
BNA_M
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SB-15-20221028-5.5-6.5



Tgt Ion:164 Resp: 753472
Ion Ratio Lower Upper
164 100
162 103.0 80.6 120.8
160 46.1 36.2 54.4

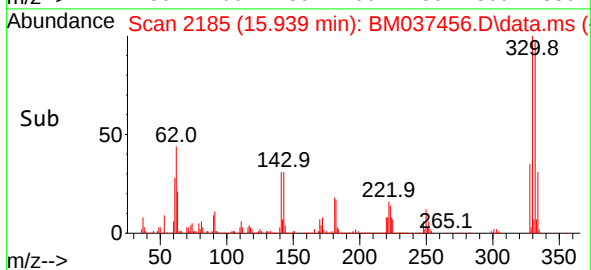
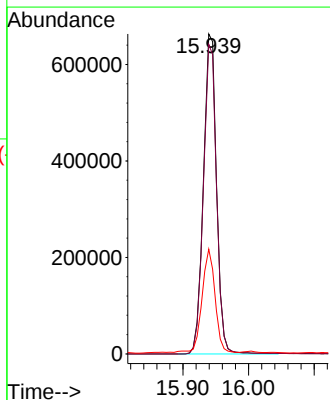
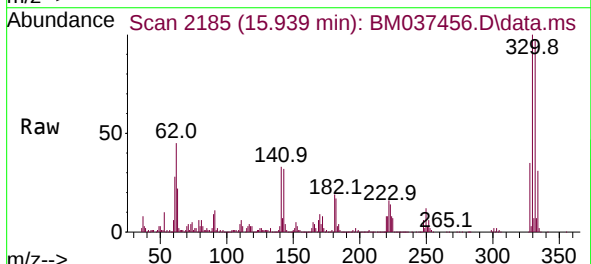
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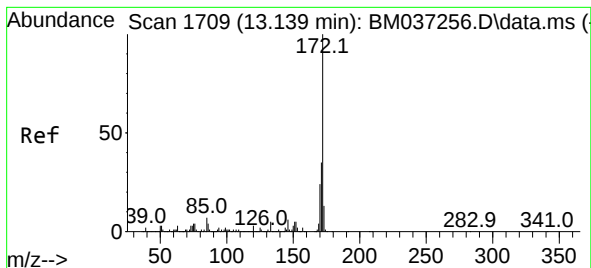
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#42
2,4,6-Tribromophenol
Concen: 103.169 ng
RT: 15.939 min Scan# 2185
Delta R.T. -0.018 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

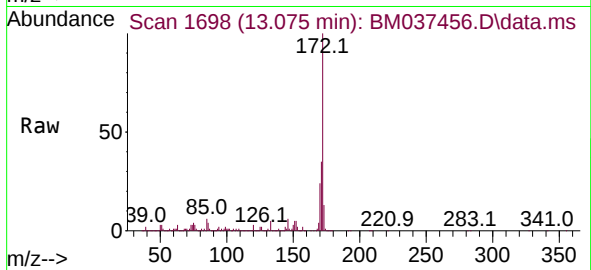
Tgt Ion:330 Resp: 916086
Ion Ratio Lower Upper
330 100
332 97.0 78.0 117.0
141 31.7 27.5 41.3





#45
2-Fluorobiphenyl
Concen: 47.370 ng
RT: 13.075 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

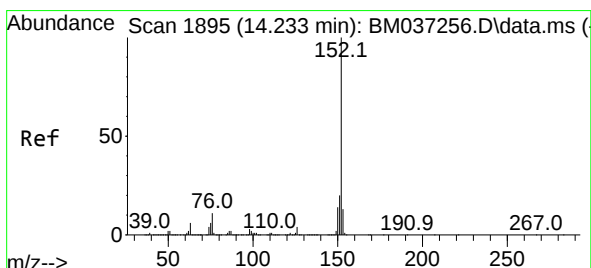
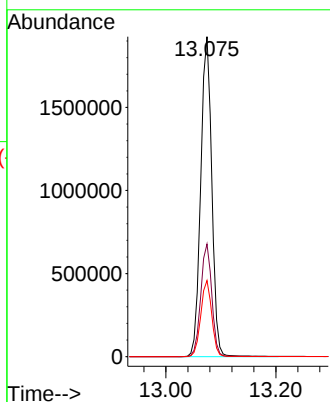
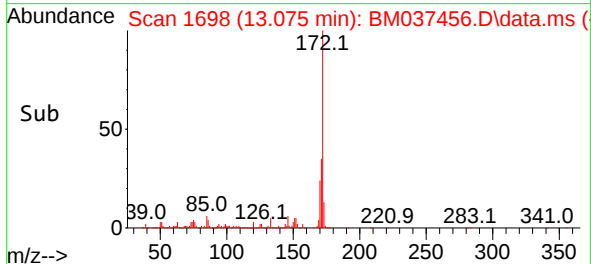
Instrument :
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SB-15-20221028-5.5-6.5



Tgt Ion:172 Resp: 2686239
Ion Ratio Lower Upper
172 100
171 35.2 28.1 42.1
170 23.8 19.0 28.4

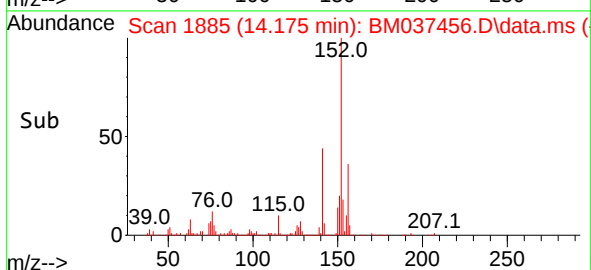
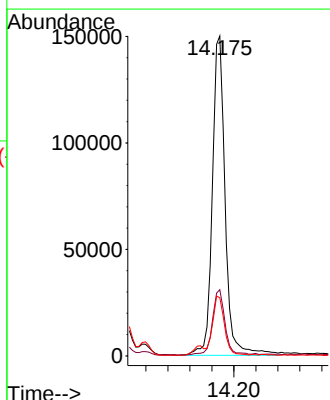
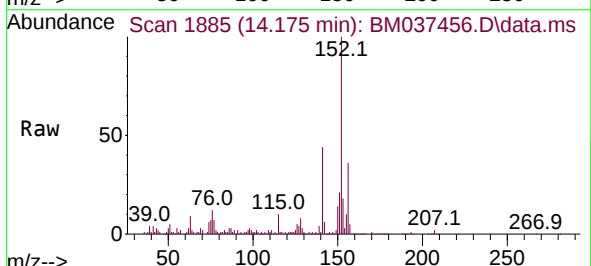
Manual Integrations
APPROVED

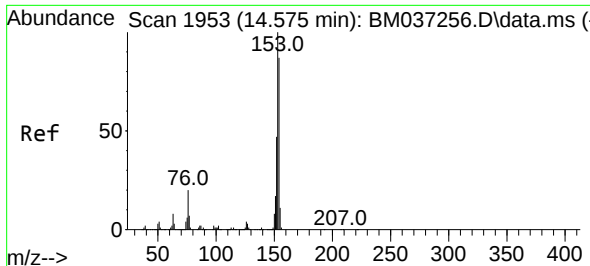
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#49
Acenaphthylene
Concen: 3.235 ng
RT: 14.175 min Scan# 1885
Delta R.T. -0.012 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

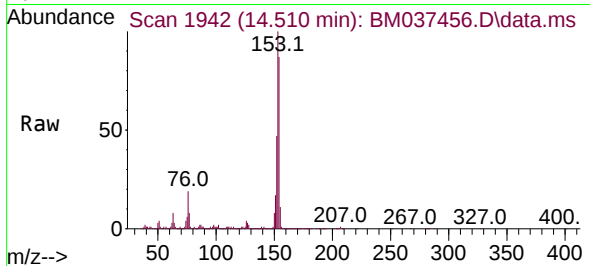
Tgt Ion:152 Resp: 242964
Ion Ratio Lower Upper
152 100
151 20.7 16.0 24.0
153 18.2 10.6 15.8#





#52
Acenaphthene
Concen: 12.214 ng
RT: 14.510 min Scan# 1953
Delta R.T. -0.018 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

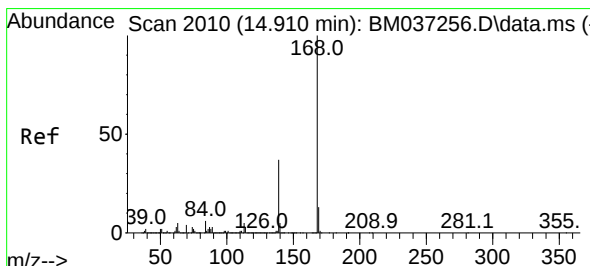
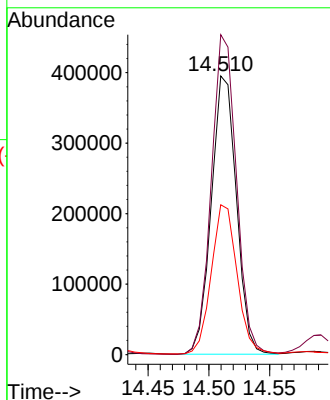
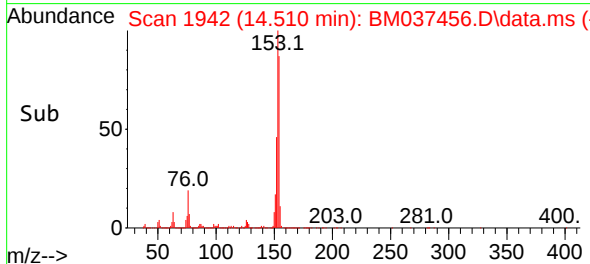
Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5



Tgt Ion:154 Resp: 567196
Ion Ratio Lower Upper
154 100
153 114.8 91.5 137.3
152 53.8 43.0 64.6

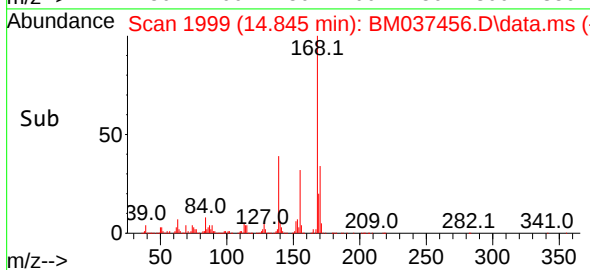
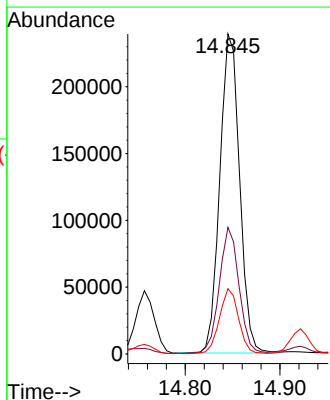
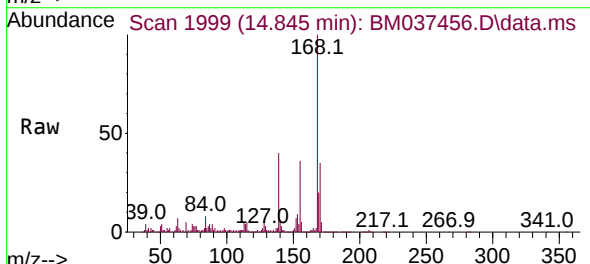
Manual Integrations
APPROVED

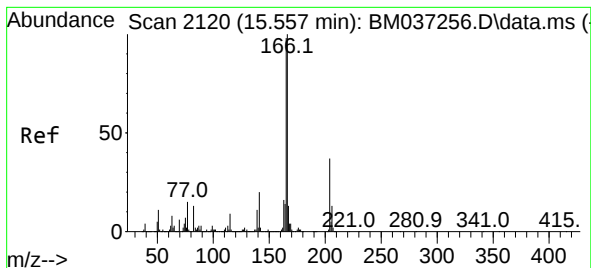
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#55
Dibenzofuran
Concen: 4.840 ng
RT: 14.845 min Scan# 1999
Delta R.T. -0.018 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

Tgt Ion:168 Resp: 346179
Ion Ratio Lower Upper
168 100
139 39.5 29.3 43.9
169 20.4 10.6 16.0#





#58

Fluorene

Concen: 12.195 ng

RT: 15.498 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM037456.D

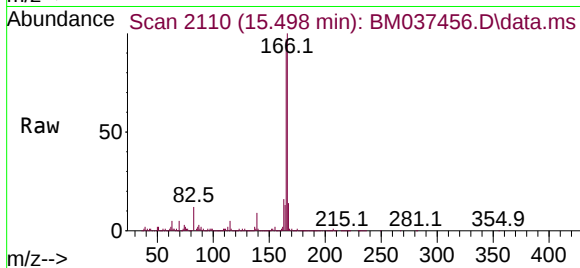
Acq: 10 Nov 2022 17:58

Instrument :

BNA_M

ClientSampleId :

SB-15-20221028-5.5-6.5



Tgt Ion:166 Resp: 728050

Ion Ratio Lower Upper

166 100

165 97.4 78.2 117.4

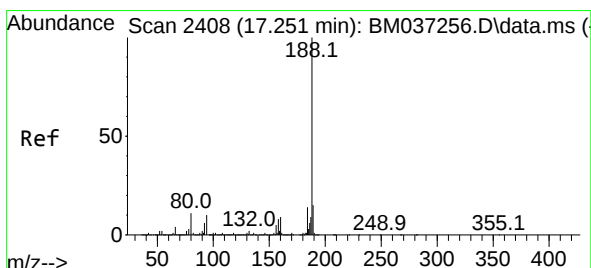
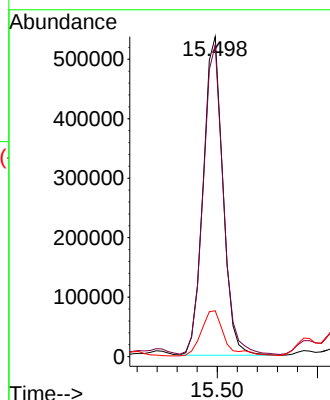
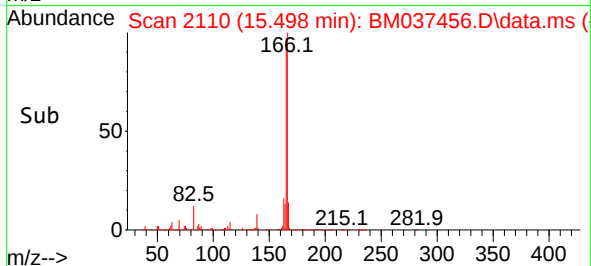
167 14.3 10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/11/2022

Supervised By :Jagrut Upadhyay 11/11/2022



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.192 min Scan# 2398

Delta R.T. -0.012 min

Lab File: BM037456.D

Acq: 10 Nov 2022 17:58

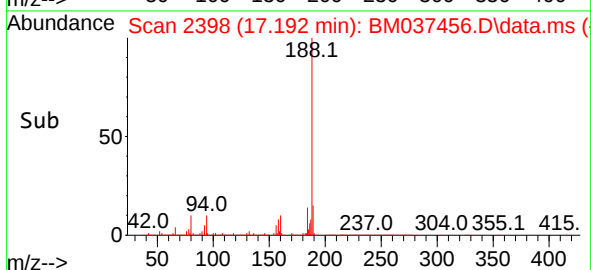
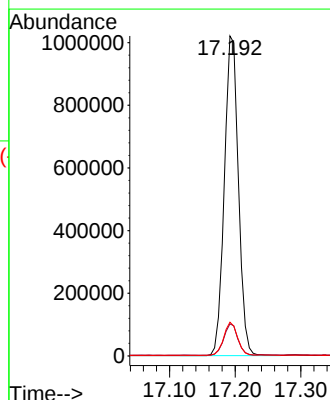
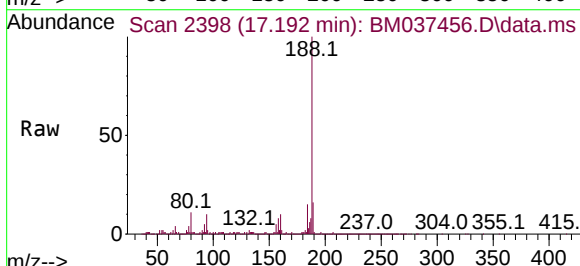
Tgt Ion:188 Resp: 1524331

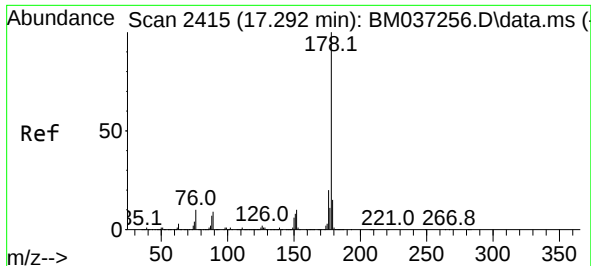
Ion Ratio Lower Upper

188 100

94 10.0 7.9 11.9

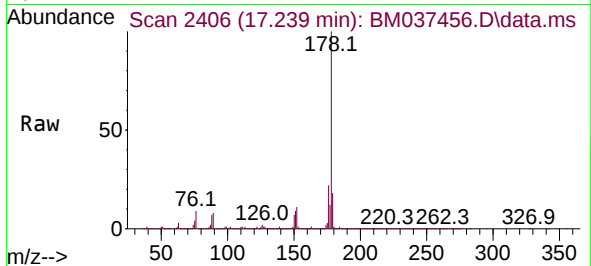
80 10.5 8.5 12.7





#71
Phenanthrene
Concen: 134.285 ng
RT: 17.239 min Scan# 2415
Delta R.T. -0.012 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

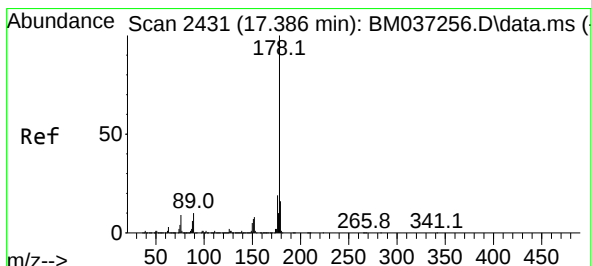
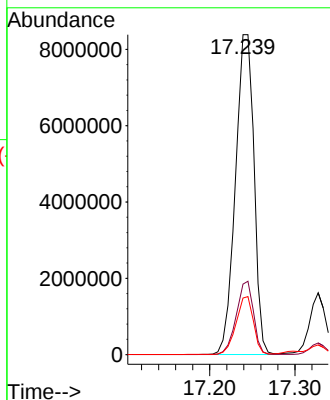
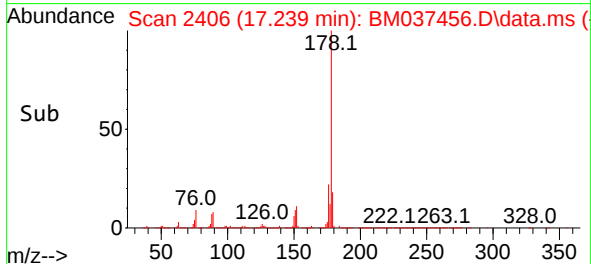
Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5



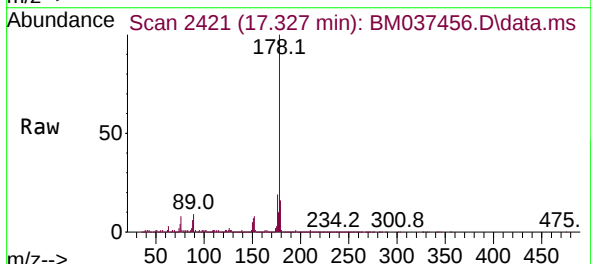
Tgt Ion:178 Resp:12699459
Ion Ratio Lower Upper
178 100
176 22.0 15.6 23.4
179 17.7 12.4 18.6

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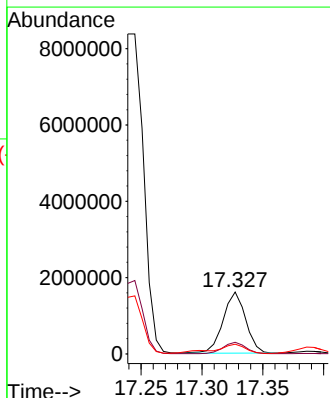
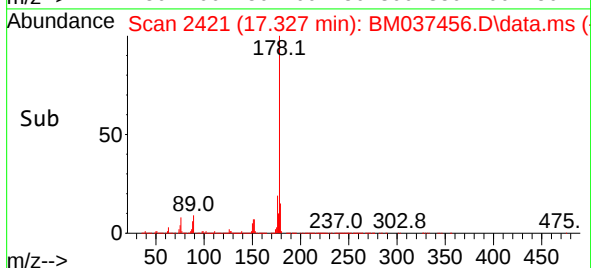
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022

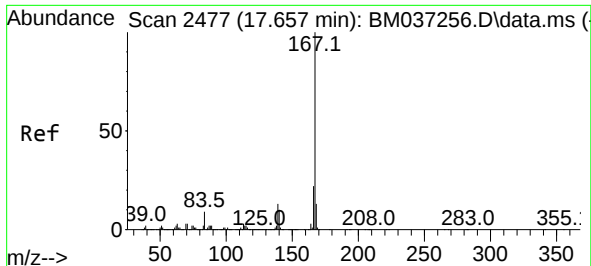


#72
Anthracene
Concen: 23.248 ng
RT: 17.327 min Scan# 2421
Delta R.T. -0.012 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58



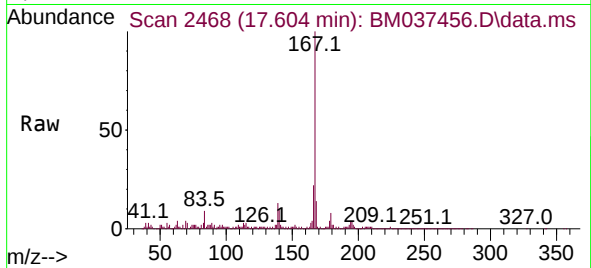
Tgt Ion:178 Resp: 2081426
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.0
179 15.7 12.6 19.0





#73
 Carbazole
 Concen: 11.526 ng
 RT: 17.604 min Scan# 2477
 Delta R.T. -0.012 min
 Lab File: BM037456.D
 Acq: 10 Nov 2022 17:58

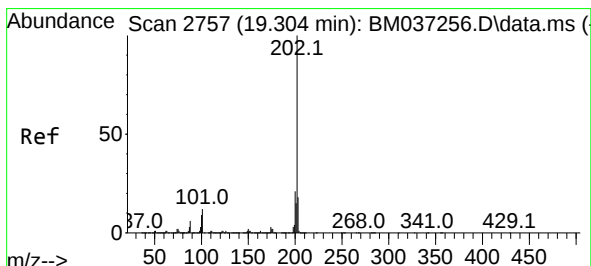
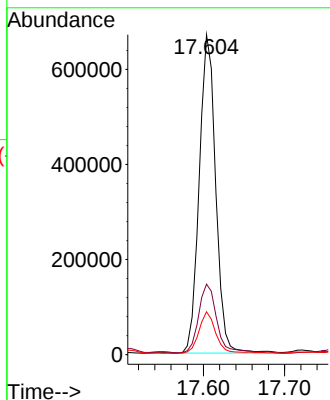
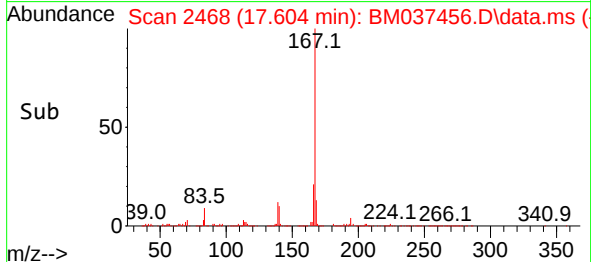
Instrument :
 BNA_M
 ClientSampleId :
 SB-15-20221028-5.5-6.5



Tgt Ion:167 Resp: 946548
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.4 26.2
 139 13.4 10.4 15.6

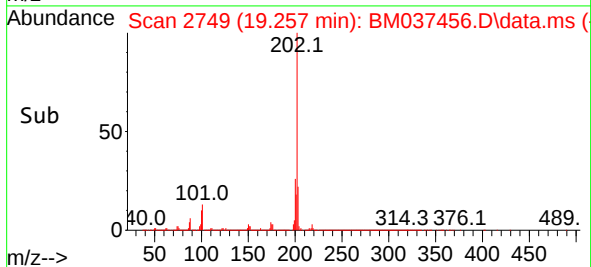
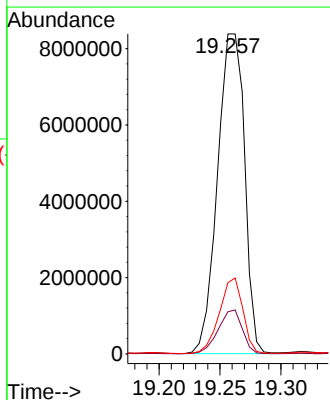
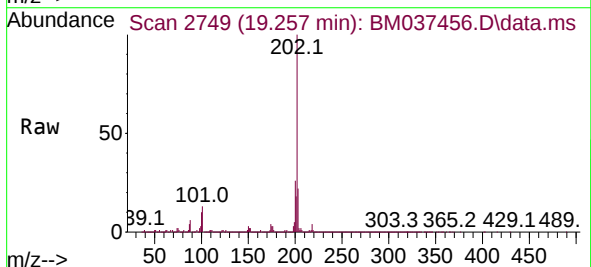
Manual Integrations
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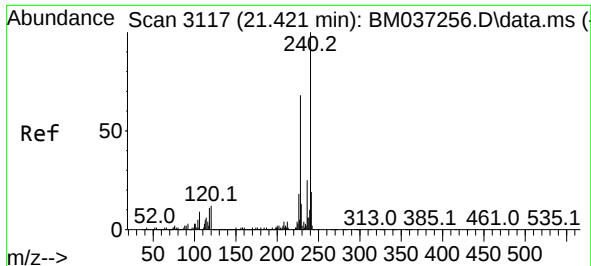
Reviewed By :Christian Giraldo 11/11/2022
 Supervised By :Jagrut Upadhyay 11/11/2022



#75
 Fluoranthene
 Concen: 129.776 ng
 RT: 19.257 min Scan# 2749
 Delta R.T. -0.006 min
 Lab File: BM037456.D
 Acq: 10 Nov 2022 17:58

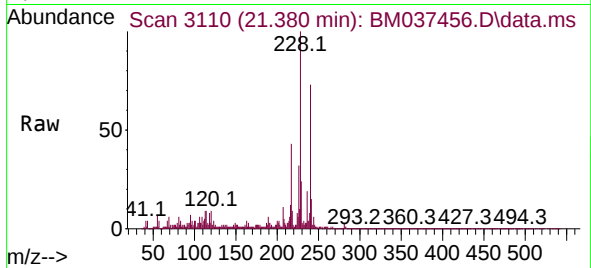
Tgt Ion:202 Resp:12973449
 Ion Ratio Lower Upper
 202 100
 101 13.2 0.0 32.4
 203 22.3 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3117
Delta R.T. 0.000 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

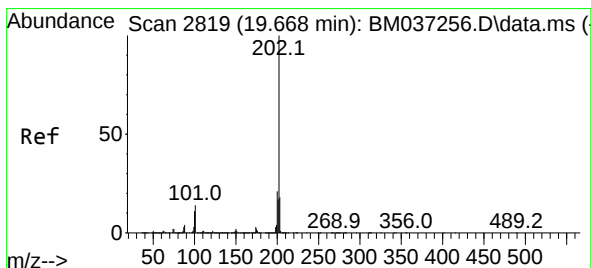
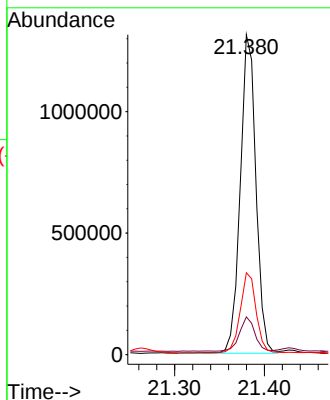
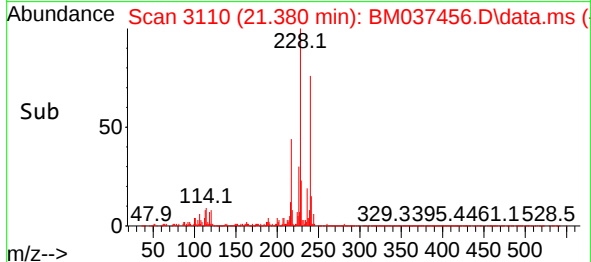
Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5



Tgt Ion:240 Resp: 1589239
Ion Ratio Lower Upper
240 100
120 11.8 9.9 14.9
236 25.6 20.3 30.5

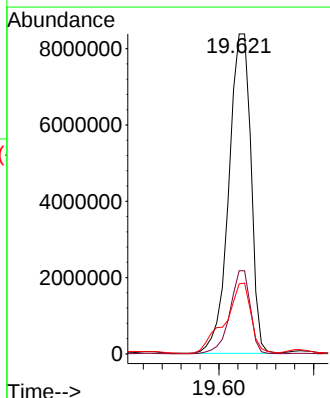
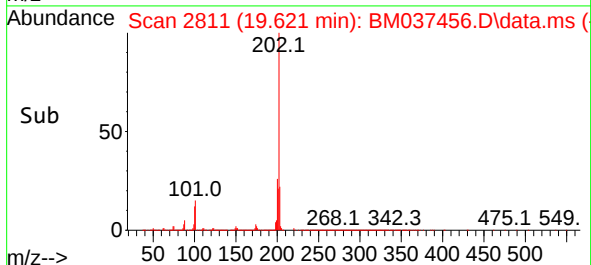
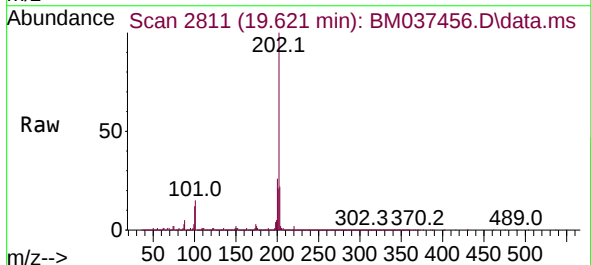
Manual Integrations
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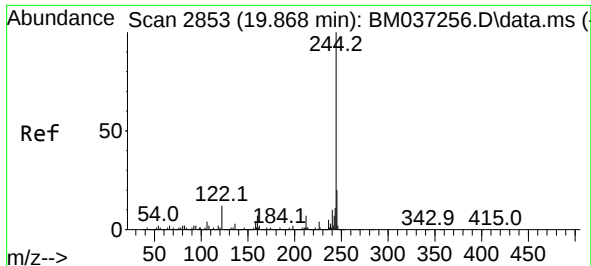
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#78
Pyrene
Concen: 111.220 ng
RT: 19.621 min Scan# 2811
Delta R.T. 0.000 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

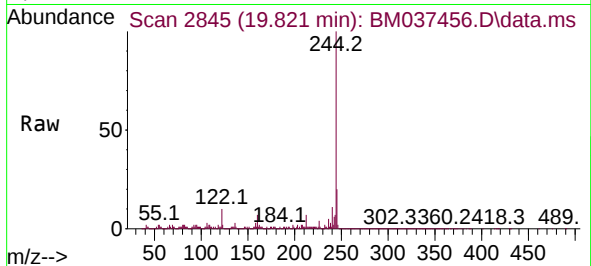
Tgt Ion:202 Resp:13591911
Ion Ratio Lower Upper
202 100
200 26.0 17.0 25.6#
203 21.9 14.1 21.1#





#79
 Terphenyl-d14
 Concen: 44.178 ng
 RT: 19.821 min Scan# 2853
 Delta R.T. -0.006 min
 Lab File: BM037456.D
 Acq: 10 Nov 2022 17:58

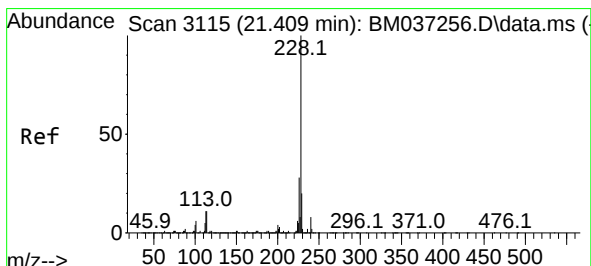
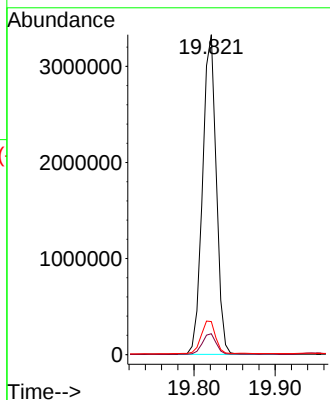
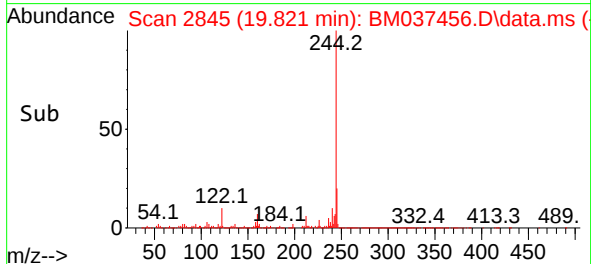
Instrument :
 BNA_M
 ClientSampleId :
 SB-15-20221028-5.5-6.5



Tgt Ion:244 Resp: 3915162
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.4 8.2
 122 10.3 9.4 14.2

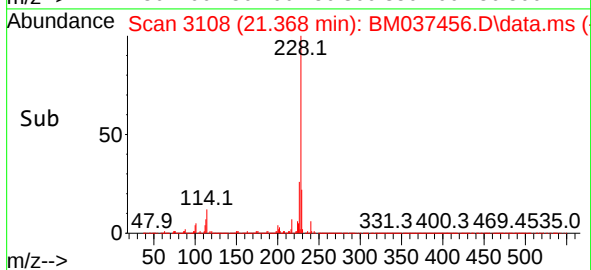
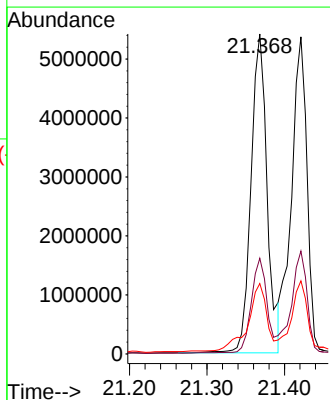
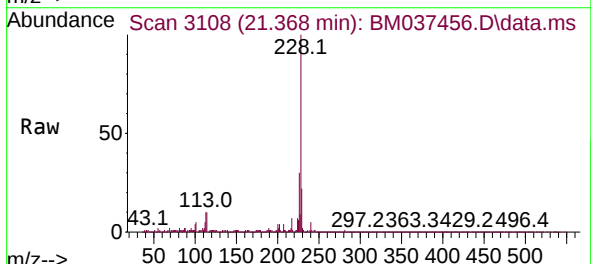
Manual Integrations
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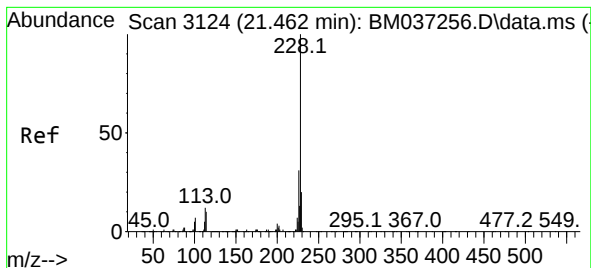
Reviewed By :Christian Giraldo 11/11/2022
 Supervised By :Jagrut Upadhyay 11/11/2022



#81
 Benzo(a)anthracene
 Concen: 69.070 ng
 RT: 21.368 min Scan# 3108
 Delta R.T. 0.006 min
 Lab File: BM037456.D
 Acq: 10 Nov 2022 17:58

Tgt Ion:228 Resp: 7814768
 Ion Ratio Lower Upper
 228 100
 226 29.9 22.3 33.5
 229 22.0 16.2 24.2





#83

Chrysene

Concen: 68.428 ng

RT: 21.421 min Scan# 31

Delta R.T. 0.006 min

Lab File: BM037456.D

Acq: 10 Nov 2022 17:58

Instrument :

BNA_M

ClientSampleId :

SB-15-20221028-5.5-6.5

Tgt Ion:228 Resp: 7459152

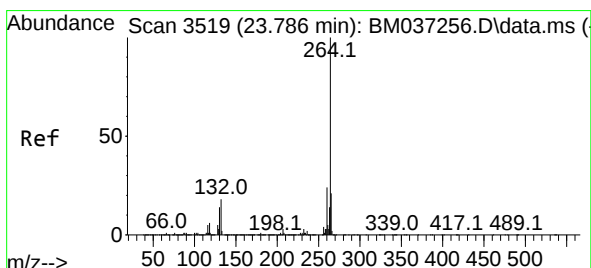
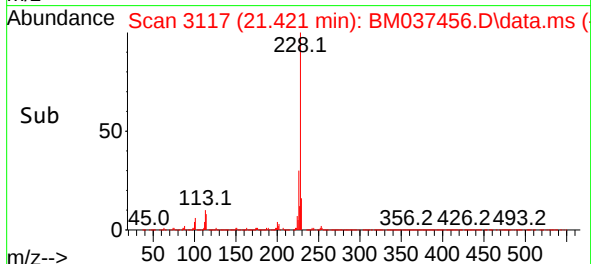
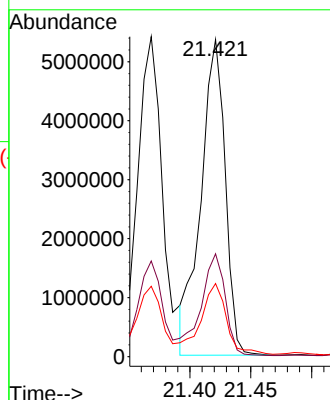
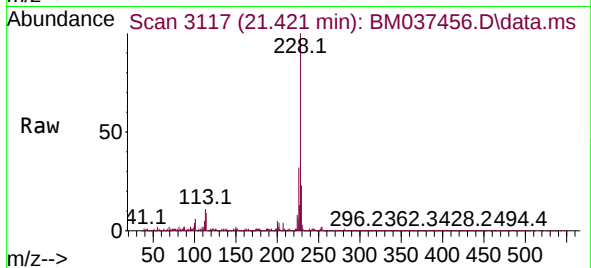
Ion	Ratio	Lower	Upper
228	100		
226	32.4	24.4	36.6
229	23.0	16.0	24.0

Manual Integrations

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Reviewed By :Christian Giraldo 11/11/2022

Supervised By :Jagrut Upadhyay 11/11/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.721 min Scan# 3508

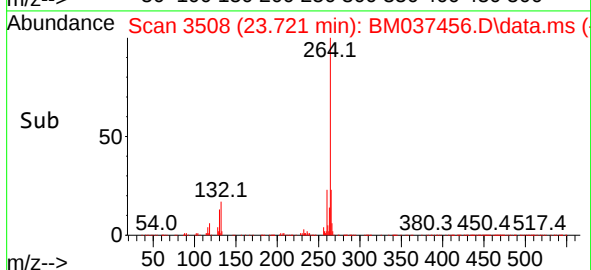
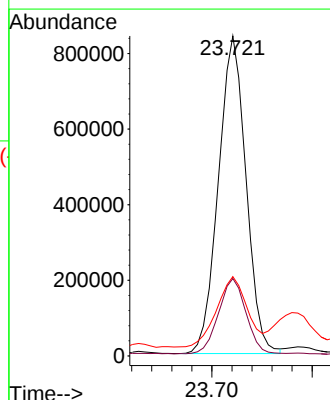
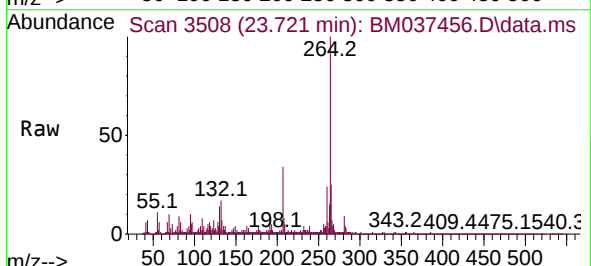
Delta R.T. 0.012 min

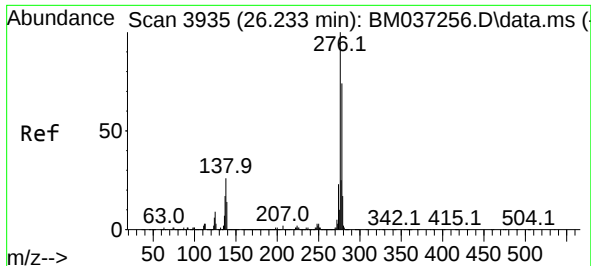
Lab File: BM037456.D

Acq: 10 Nov 2022 17:58

Tgt Ion:264 Resp: 1608661

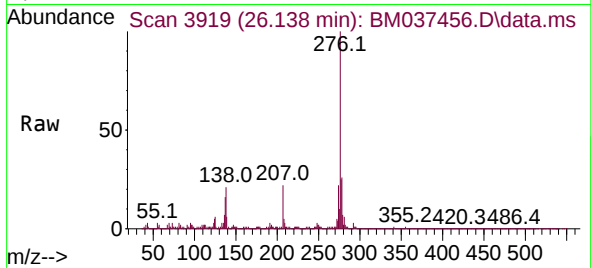
Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.9	28.3
265	24.8	17.7	26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 27.827 ng
RT: 26.138 min Scan# 3935
Delta R.T. 0.006 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

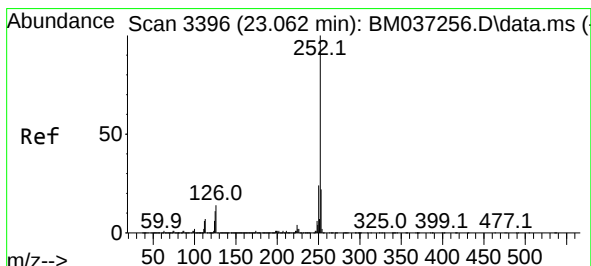
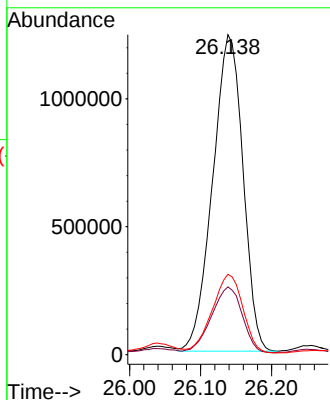
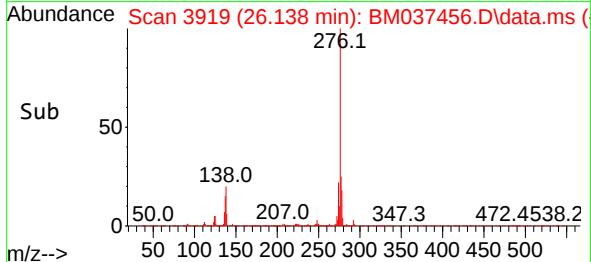
Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5



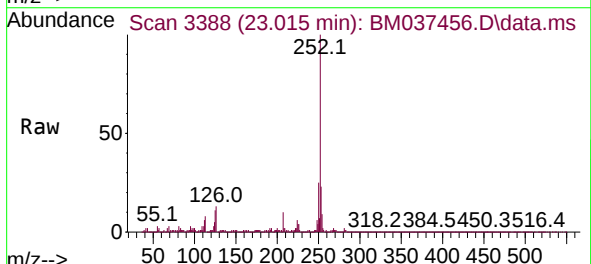
Tgt Ion: 276 Resp: 3665189
Ion Ratio Lower Upper
276 100
138 21.2 21.5 32.3
277 25.3 20.1 30.1

Manual Integrations
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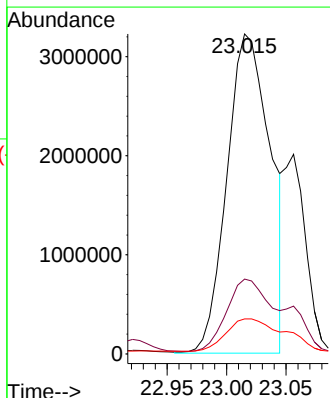
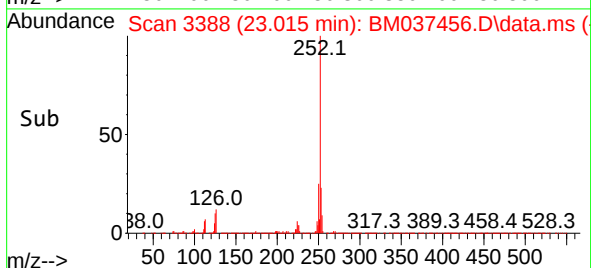
Reviewed By : Christian Giraldo 11/11/2022
Supervised By : Jagrut Upadhyay 11/11/2022

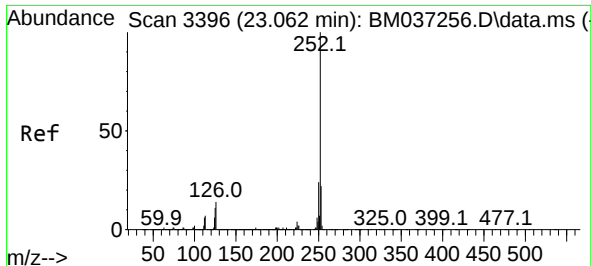


#88
Benzo(b)fluoranthene
Concen: 73.205 ng m
RT: 23.015 min Scan# 3388
Delta R.T. 0.012 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58



Tgt Ion: 252 Resp: 8175657
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.6
125 10.9 9.1 13.7





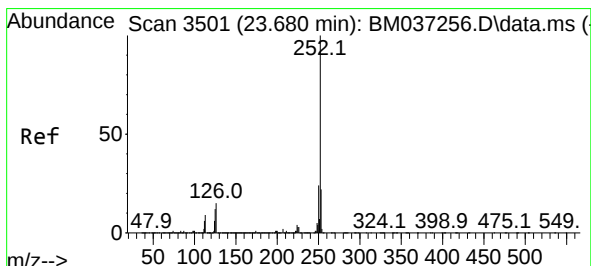
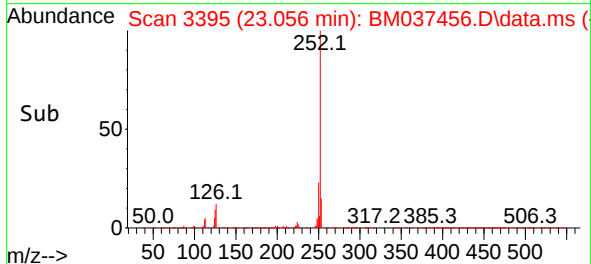
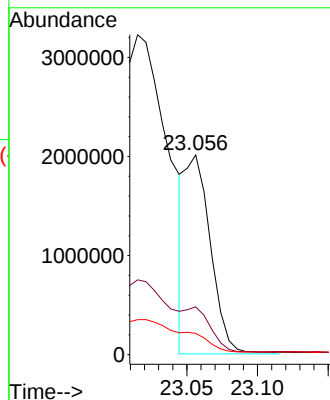
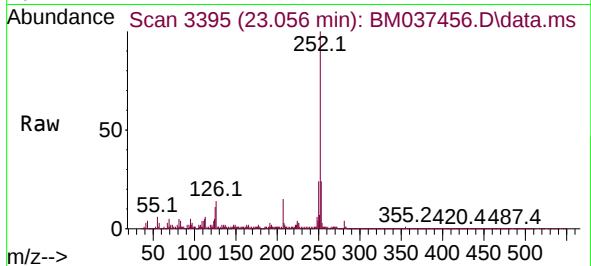
#89
Benzo(k)fluoranthene
Concen: 22.238 ng m
RT: 23.056 min Scan# 341
Delta R.T. 0.006 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

Instrument :
BNA_M
ClientSampleId :
SB-15-20221028-5.5-6.5

Tgt Ion:252 Resp: 253331
Ion Ratio Lower Upper
252 100
253 24.0 17.8 26.6
125 10.6 9.1 13.7

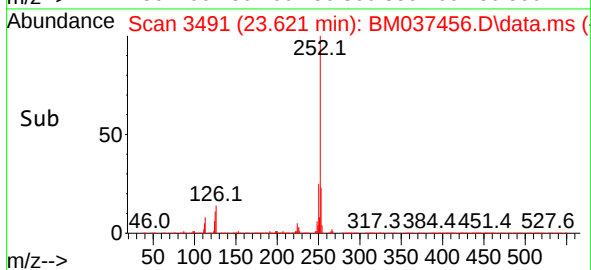
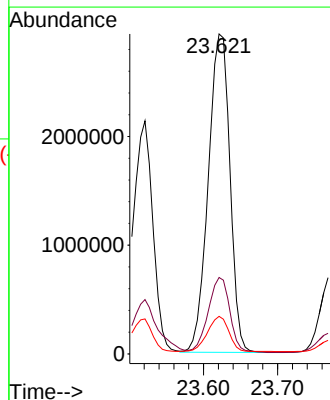
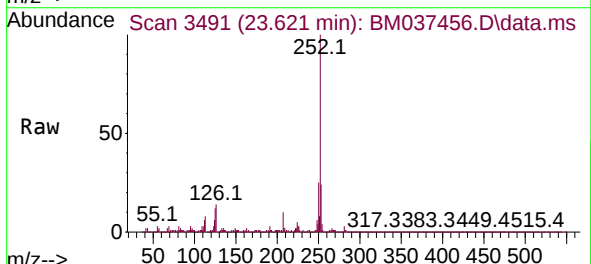
Manual Integrations
APPROVED

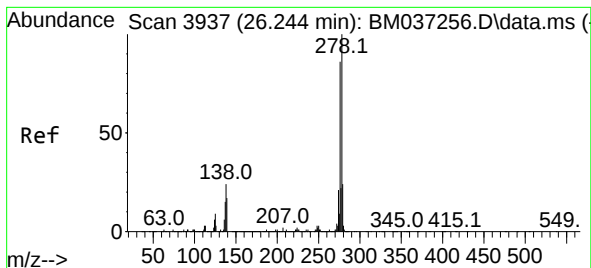
Reviewed By :Christian Giraldo 11/11/2022
Supervised By :Jagrut Upadhyay 11/11/2022



#90
Benzo(a)pyrene
Concen: 65.359 ng
RT: 23.621 min Scan# 3491
Delta R.T. 0.012 min
Lab File: BM037456.D
Acq: 10 Nov 2022 17:58

Tgt Ion:252 Resp: 5947442
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.2
125 11.7 9.9 14.9





#91

Dibenzo(a,h)anthracene

Concen: 9.961 ng

RT: 26.144 min Scan# 3937

Delta R.T. 0.000 min

Lab File: BM037456.D

Acq: 10 Nov 2022 17:58

Instrument :

BNA_M

ClientSampleId :

SB-15-20221028-5.5-6.5

Tgt Ion:278 Resp: 1089504

Ion Ratio Lower Upper

278 100

139 20.2 13.8 20.8

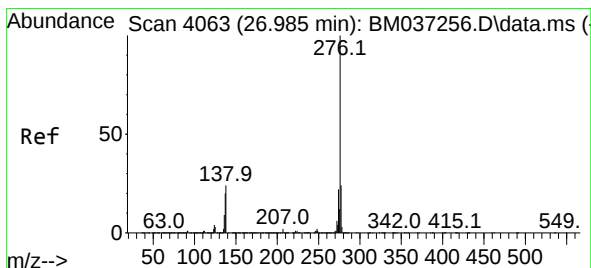
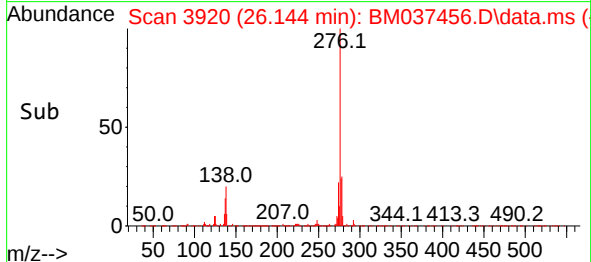
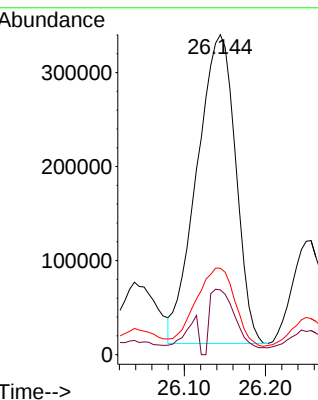
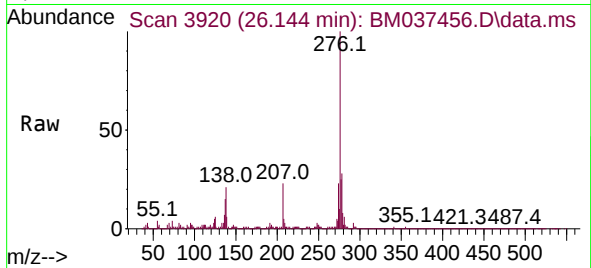
279 27.0 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/11/2022

Supervised By :Jagrut Upadhyay 11/11/2022



#92

Benzo(g,h,i)perylene

Concen: 34.148 ng

RT: 26.891 min Scan# 4047

Delta R.T. 0.012 min

Lab File: BM037456.D

Acq: 10 Nov 2022 17:58

Tgt Ion:276 Resp: 3635165

Ion Ratio Lower Upper

276 100

277 24.7 19.4 29.2

138 21.6 18.9 28.3

