

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM021723\
 Data File : BM038782.D
 Acq On : 17 Feb 2023 19:53
 Operator : CG/JU
 Sample : 01552-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SB-01-4.0-6.0-DUP

Quant Time: Feb 17 23:24:07 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 23:12:31 2023
 Response via : Initial Calibration

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

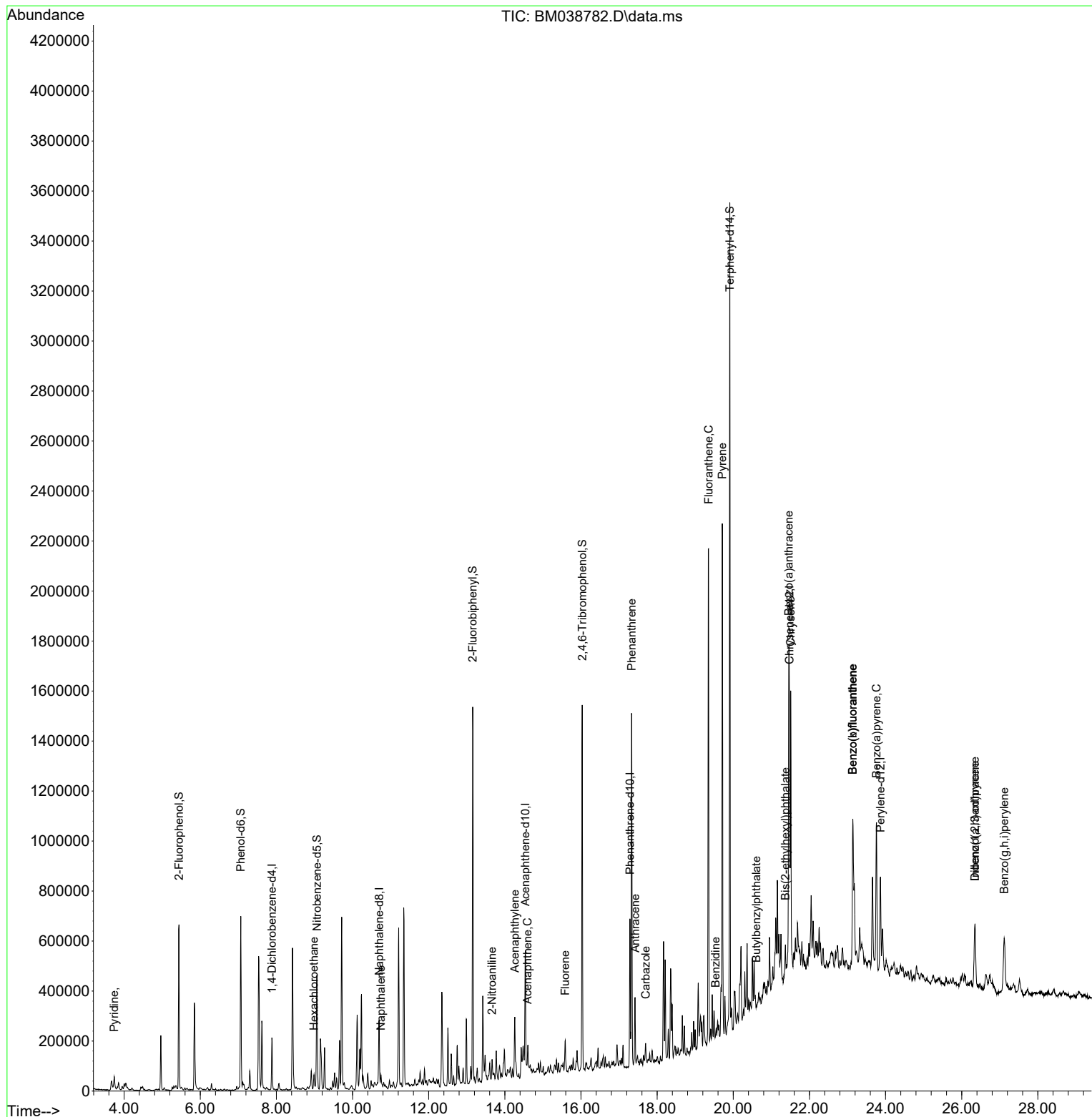
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.881	152	57686	20.000	ng	-0.03
21) Naphthalene-d8	10.698	136	228524	20.000	ng	-0.02
39) Acenaphthene-d10	14.539	164	160831	20.000	ng	-0.02
64) Phenanthrene-d10	17.286	188	331798	20.000	ng	#-0.02
76) Chrysene-d12	21.474	240	279602	20.000	ng	-0.02
86) Perylene-d12	23.868	264	262629	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	310754	105.526	ng	-0.02
7) Phenol-d6	7.063	99	391908	116.687	ng	-0.02
23) Nitrobenzene-d5	9.063	82	233685	58.083	ng	-0.03
42) 2,4,6-Tribromophenol	16.033	330	242084	110.740	ng	-0.02
45) 2-Fluorobiphenyl	13.157	172	700319	55.436	ng	-0.03
79) Terphenyl-d14	19.909	244	1274103	80.413	ng	-0.02
Target Compounds						Qvalue
3) Pyridine	3.740	79	33654	10.902	ng	# 43
18) Hexachloroethane	8.987	117	22657	16.932	ng	# 7
31) Naphthalene	10.745	128	27138	2.314	ng	# 81
48) 2-Nitroaniline	13.663	65	1143	2.653	ng	# 8
49) Acenaphthylene	14.263	152	166333	10.534	ng	98
52) Acenaphthene	14.598	154	20652	2.190	ng	98
58) Fluorene	15.586	166	49028	3.816	ng	98
71) Phenanthrene	17.333	178	820988	41.672	ng	100
72) Anthracene	17.421	178	167966	8.334	ng	99
73) Carbazole	17.698	167	44500	2.367	ng	# 91
75) Fluoranthene	19.351	202	1085614	52.483	ng	99
77) Benzidine	19.539	184	411	3.159	ng	# 1
78) Pyrene	19.709	202	1141951	53.048	ng	99
80) Butylbenzylphthalate	20.609	149	734	2.010	ng	# 1
81) Benzo(a)anthracene	21.456	228	502968	25.430	ng	96
83) Chrysene	21.509	228	463217	24.308	ng	97
84) Bis(2-ethylhexyl)phtha...	21.368	149	36025	3.734	ng	# 97
87) Indeno(1,2,3-cd)pyrene	26.344	276	240680	11.635	ng	97
88) Benzo(b)fluoranthene	23.139	252	488130	31.031	ng	97
89) Benzo(k)fluoranthene	23.139	252	488130	30.558	ng	97
90) Benzo(a)pyrene	23.762	252	372407	23.940	ng	98
91) Dibenzo(a,h)anthracene	26.344	278	69970	4.020	ng	# 91
92) Benzo(g,h,i)perylene	27.115	276	253589	14.414	ng	98

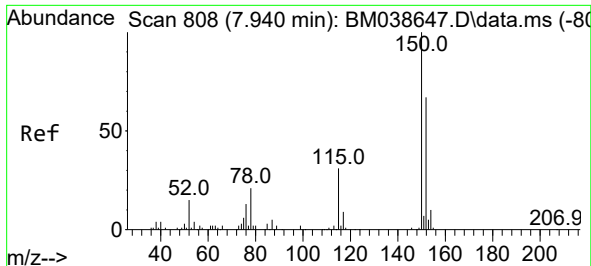
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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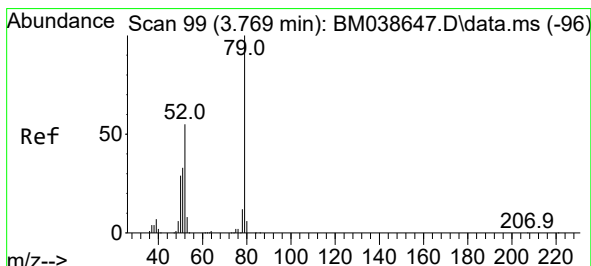
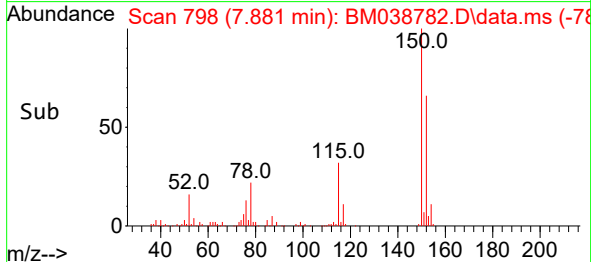
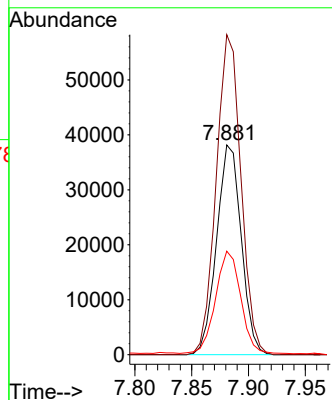
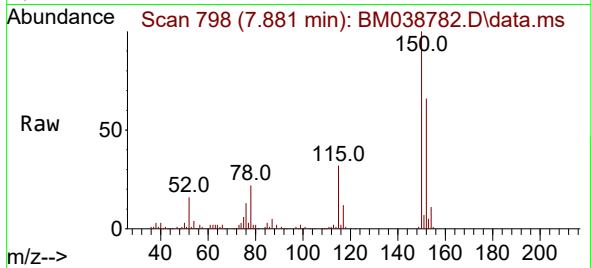




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.881 min Scan# 79
Delta R.T. -0.029 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

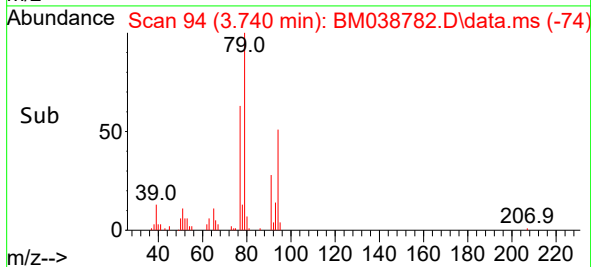
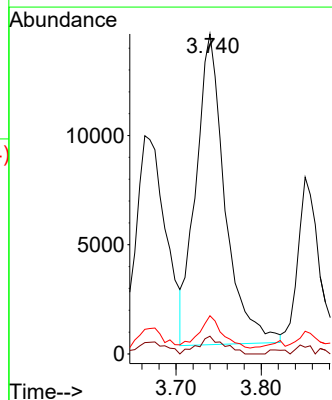
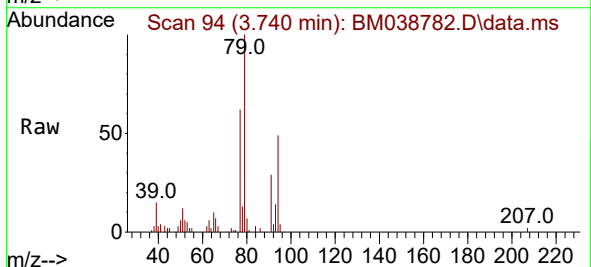
Instrument :
BNA_M
ClientSampleId :
SB-01-4.0-6.0-DUP

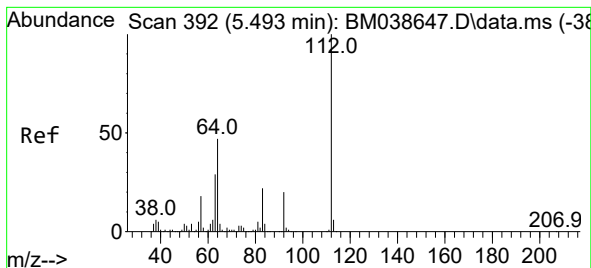
Tgt Ion:152 Resp: 57686
Ion Ratio Lower Upper
152 100
150 152.5 119.5 179.3
115 49.4 37.6 56.4



#3
Pyridine
Concen: 10.902 ng
RT: 3.740 min Scan# 94
Delta R.T. 0.018 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

Tgt Ion: 79 Resp: 33654
Ion Ratio Lower Upper
79 100
52 5.6 43.7 65.5#
51 11.9 26.6 40.0#





#5

2-Fluorophenol

Concen: 105.526 ng

RT: 5.440 min Scan# 31

Delta R.T. -0.023 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

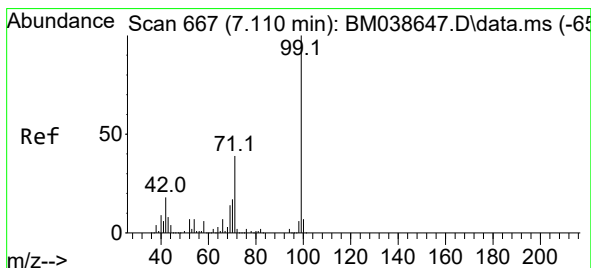
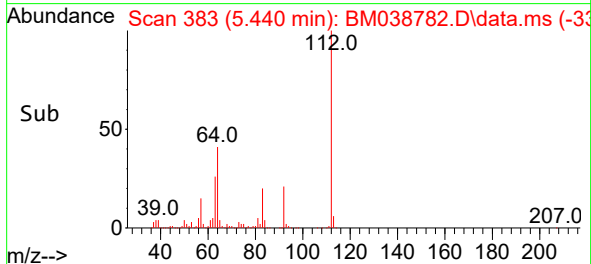
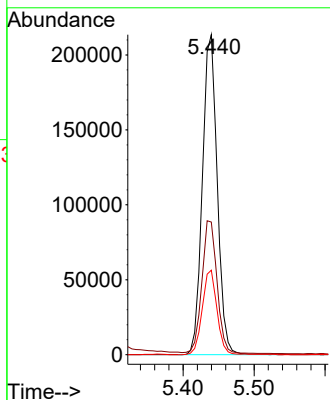
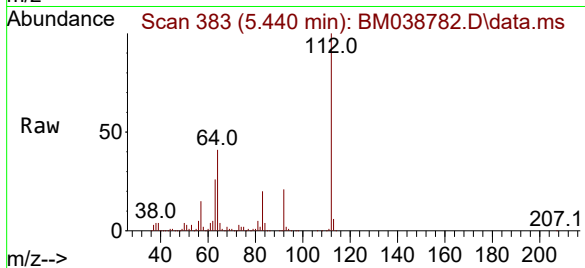
Tgt Ion:112 Resp: 310754

Ion Ratio Lower Upper

112 100

64 41.5 37.9 56.9

63 26.4 23.3 34.9



#7

Phenol-d6

Concen: 116.687 ng

RT: 7.063 min Scan# 659

Delta R.T. -0.023 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

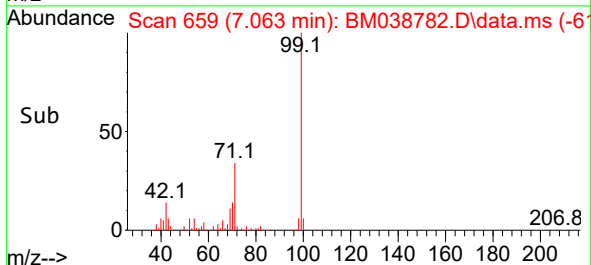
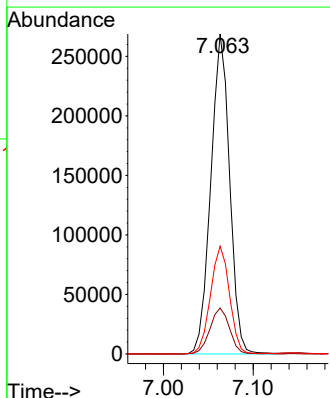
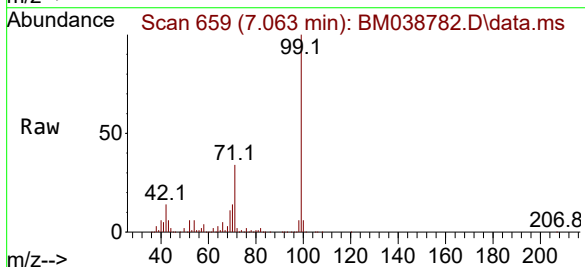
Tgt Ion: 99 Resp: 391908

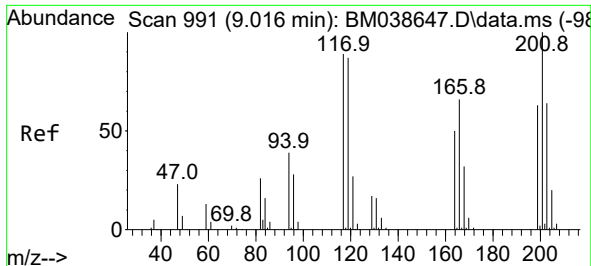
Ion Ratio Lower Upper

99 100

42 14.3 14.6 22.0#

71 33.7 31.0 46.4





#18

Hexachloroethane

Concen: 16.932 ng

RT: 8.987 min Scan# 91

Delta R.T. 0.000 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

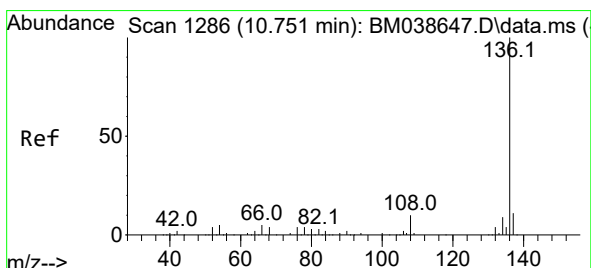
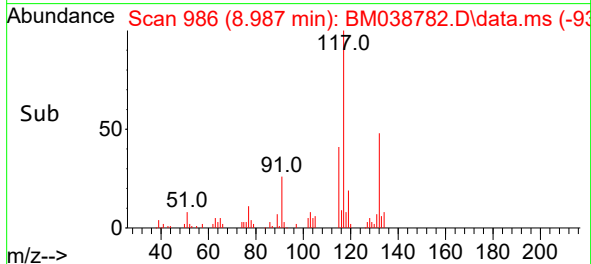
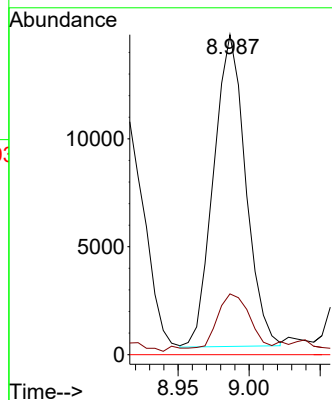
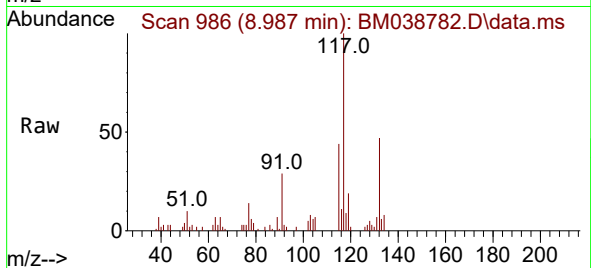
Tgt Ion:117 Resp: 22657

Ion Ratio Lower Upper

117 100

119 19.0 78.6 117.8#

201 0.0 90.2 135.2#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.698 min Scan# 1277

Delta R.T. -0.023 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Tgt Ion:136 Resp: 228524

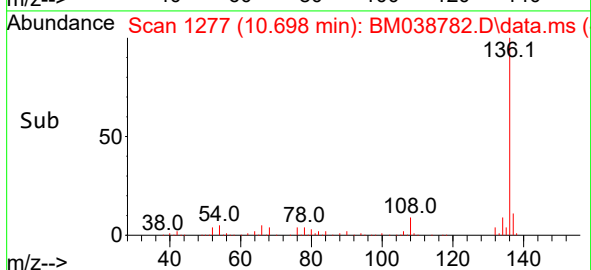
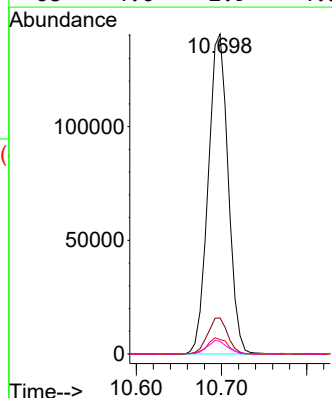
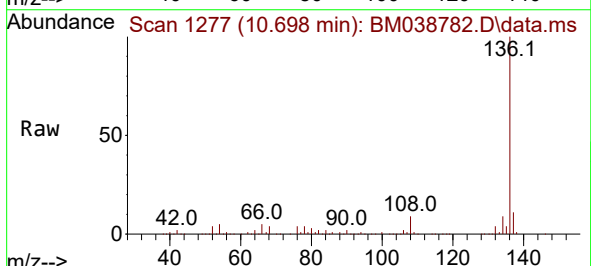
Ion Ratio Lower Upper

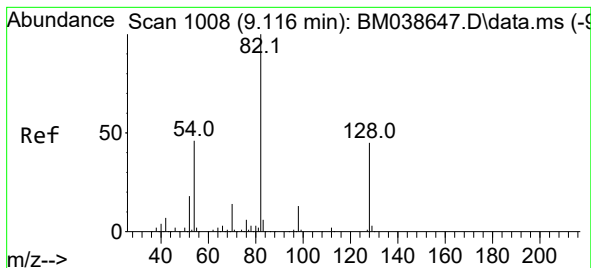
136 100

137 11.3 8.8 13.2

54 4.5 4.2 6.4

68 4.0 2.9 4.3





#23

Nitrobenzene-d5

Concen: 58.083 ng

RT: 9.063 min Scan# 91

Delta R.T. -0.029 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

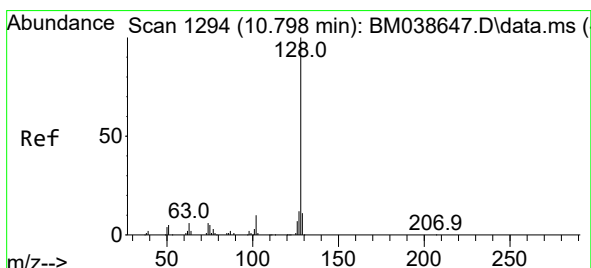
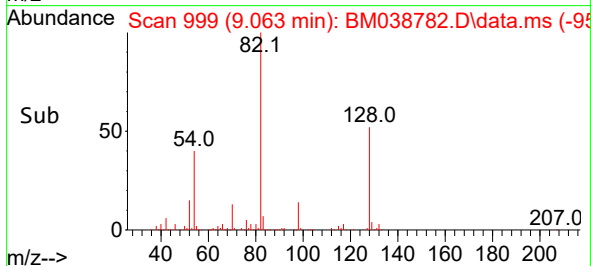
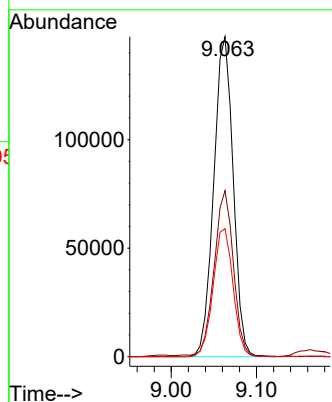
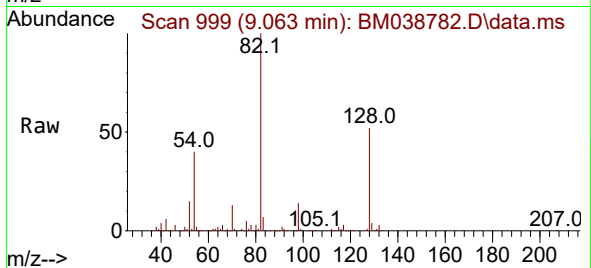
Tgt Ion: 82 Resp: 233685

Ion Ratio Lower Upper

82 100

128 51.9 36.0 54.0

54 40.0 36.8 55.2



#31

Naphthalene

Concen: 2.314 ng

RT: 10.745 min Scan# 1285

Delta R.T. -0.029 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

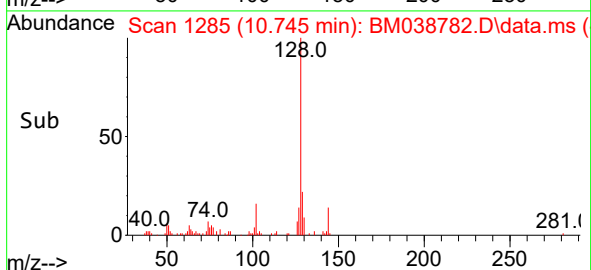
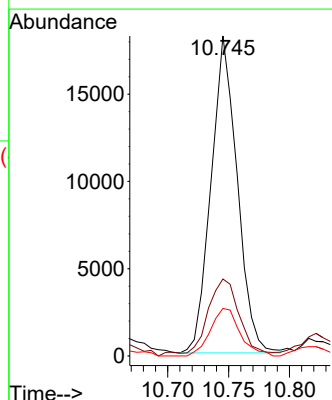
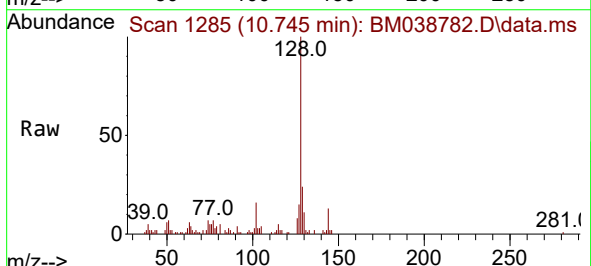
Tgt Ion: 128 Resp: 27138

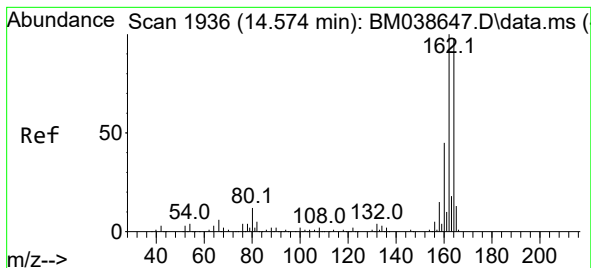
Ion Ratio Lower Upper

128 100

129 24.1 9.1 13.7#

127 14.9 9.9 14.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.539 min Scan# 1930

Delta R.T. -0.023 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

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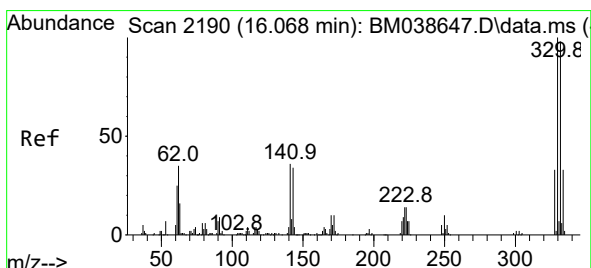
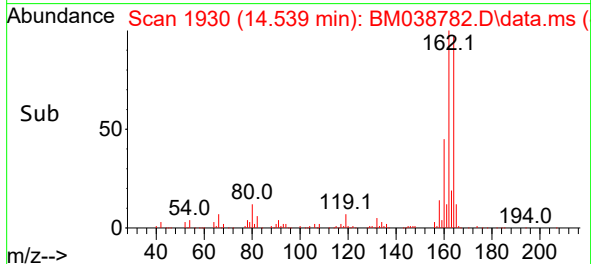
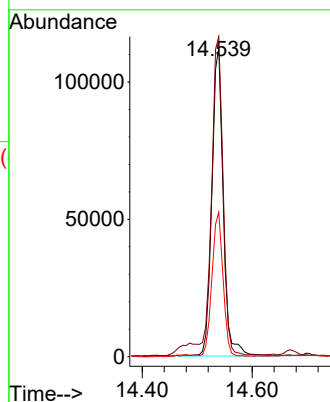
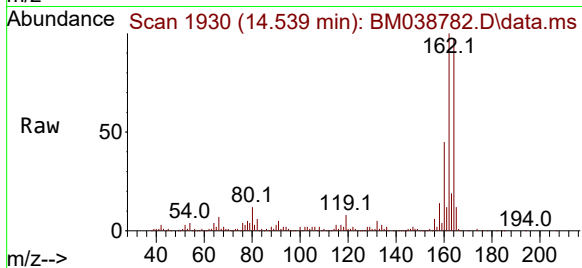
Tgt Ion:164 Resp: 160831

Ion Ratio Lower Upper

164 100

162 103.4 81.4 122.0

160 46.7 36.5 54.7



#42

2,4,6-Tribromophenol

Concen: 110.740 ng

RT: 16.033 min Scan# 2184

Delta R.T. -0.023 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

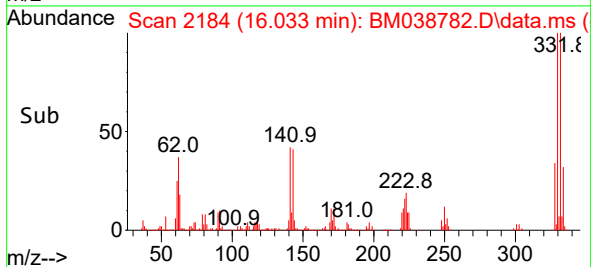
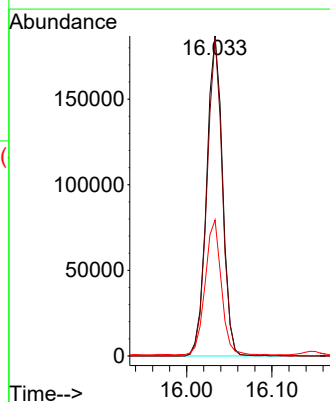
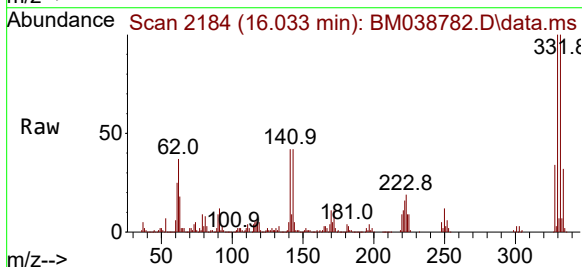
Tgt Ion:330 Resp: 242084

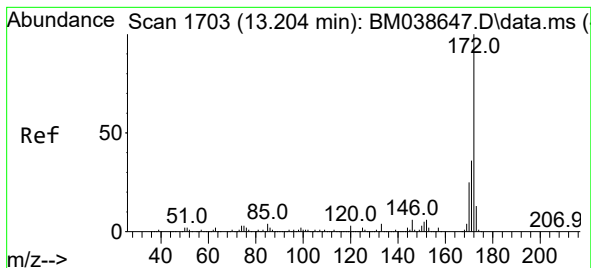
Ion Ratio Lower Upper

330 100

332 95.6 77.8 116.6

141 42.7 31.0 46.6





#45

2-Fluorobiphenyl

Concen: 55.436 ng

RT: 13.157 min Scan# 1

Delta R.T. -0.029 min

Lab File: BM038782.D

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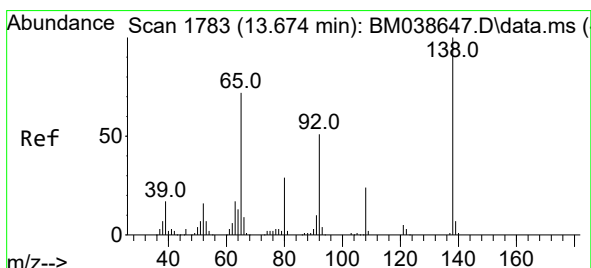
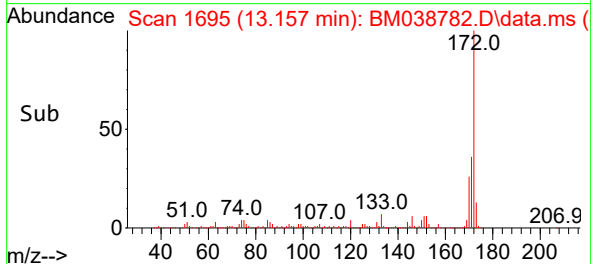
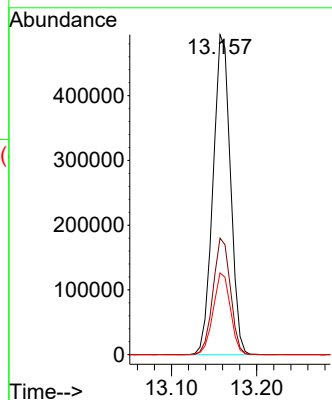
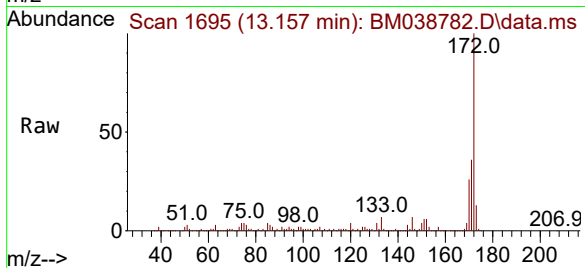
Tgt Ion:172 Resp: 700319

Ion Ratio Lower Upper

172 100

171 36.4 28.7 43.1

170 25.5 20.0 30.0



#48

2-Nitroaniline

Concen: 2.653 ng

RT: 13.663 min Scan# 1781

Delta R.T. 0.006 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

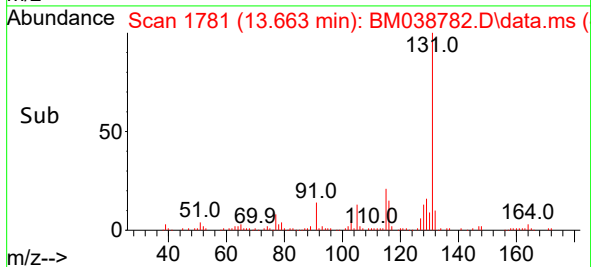
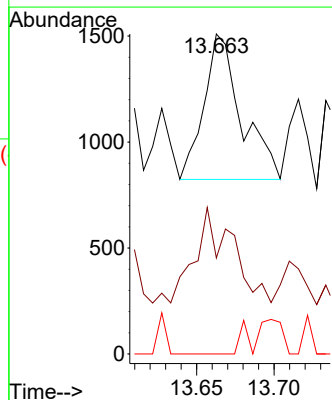
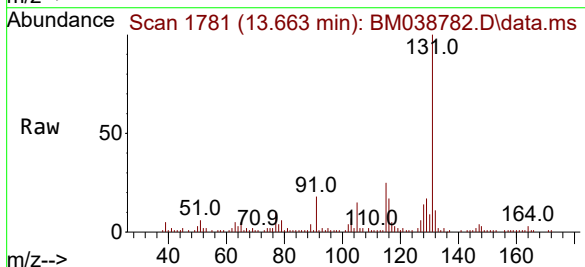
Tgt Ion: 65 Resp: 1143

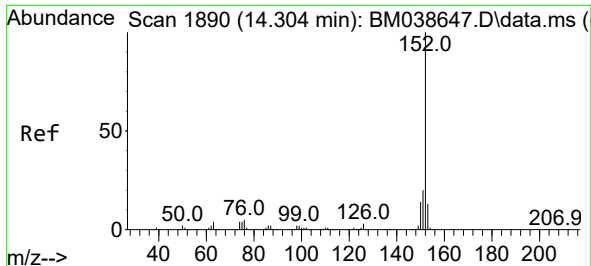
Ion Ratio Lower Upper

65 100

92 30.0 55.9 83.9#

138 0.0 110.6 166.0#

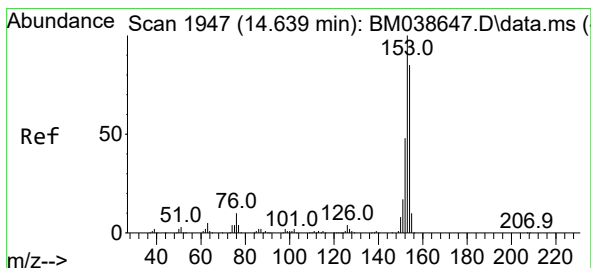
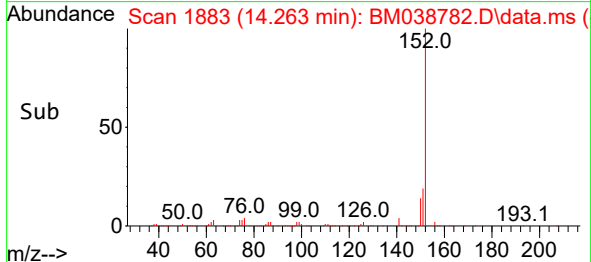
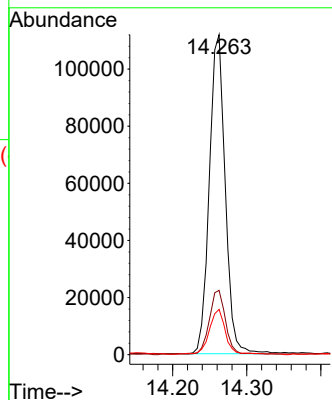
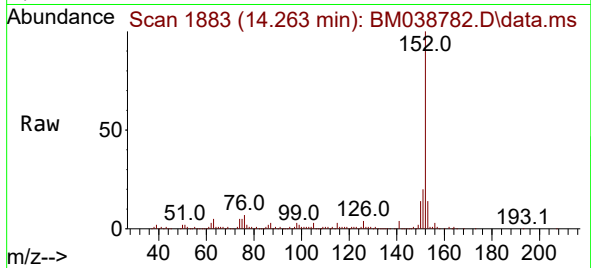




#49
Acenaphthylene
Concen: 10.534 ng
RT: 14.263 min Scan# 11
Delta R.T. -0.023 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

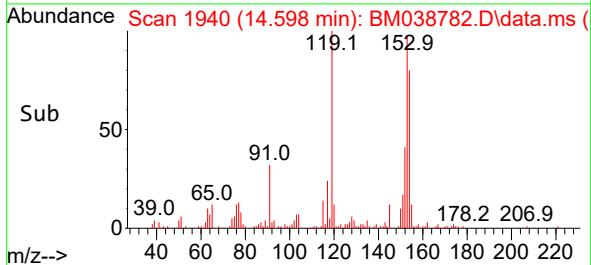
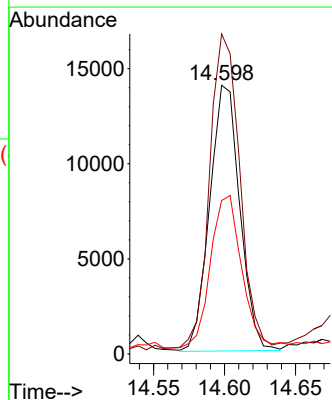
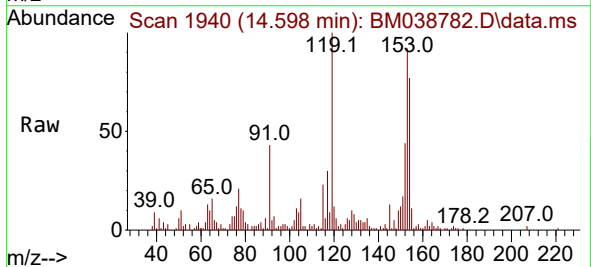
Instrument :
BNA_M
ClientSampleId :
SB-01-4.0-6.0-DUP

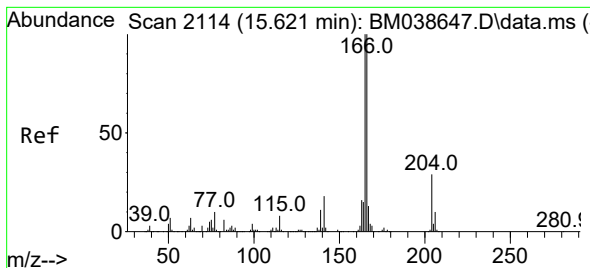
Tgt Ion:152 Resp: 166333
Ion Ratio Lower Upper
152 100
151 20.1 16.1 24.1
153 14.2 10.0 15.0



#52
Acenaphthene
Concen: 2.190 ng
RT: 14.598 min Scan# 1940
Delta R.T. -0.029 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

Tgt Ion:154 Resp: 20652
Ion Ratio Lower Upper
154 100
153 119.1 93.7 140.5
152 57.1 44.6 67.0





#58

Fluorene

Concen: 3.816 ng

RT: 15.586 min Scan# 2114

Delta R.T. -0.023 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

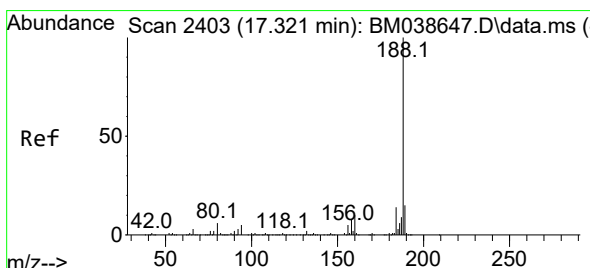
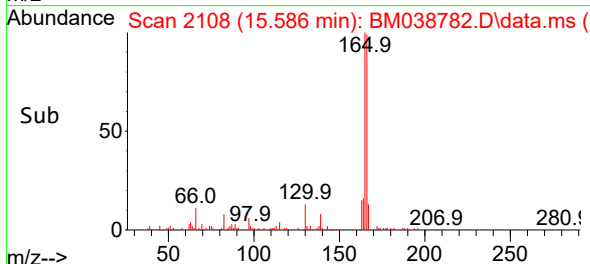
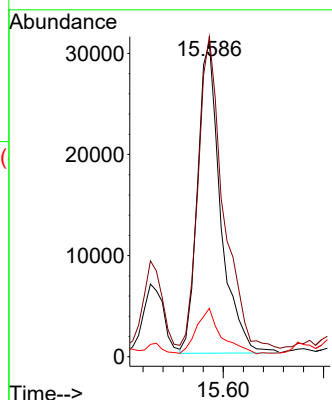
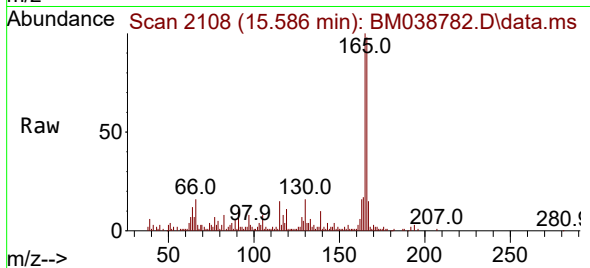
Tgt Ion:166 Resp: 49028

Ion Ratio Lower Upper

166 100

165 101.7 80.2 120.4

167 15.4 10.7 16.1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.286 min Scan# 2397

Delta R.T. -0.018 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

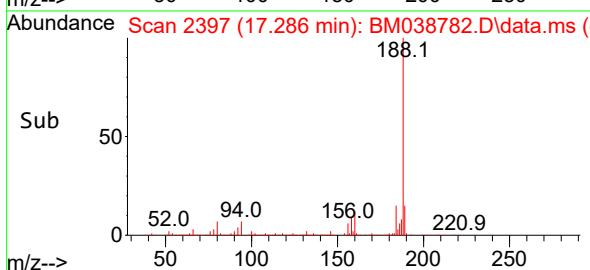
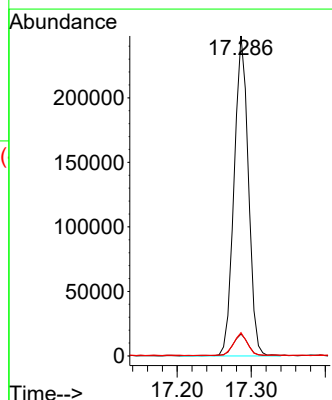
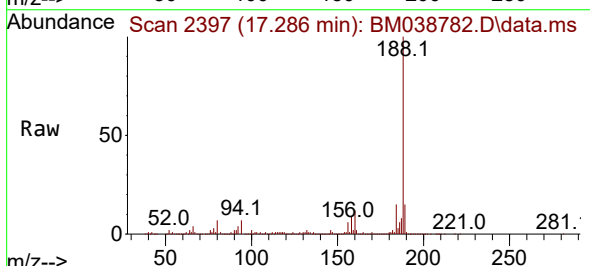
Tgt Ion:188 Resp: 331798

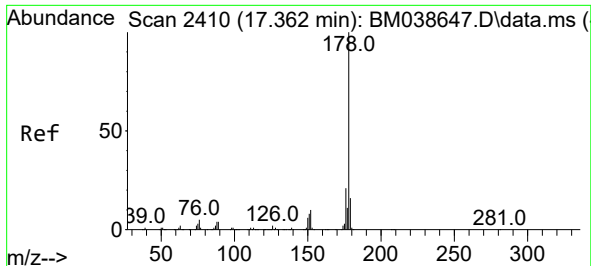
Ion Ratio Lower Upper

188 100

94 6.8 4.2 6.4#

80 7.3 4.6 7.0#

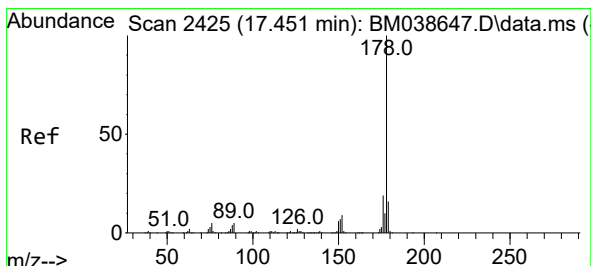
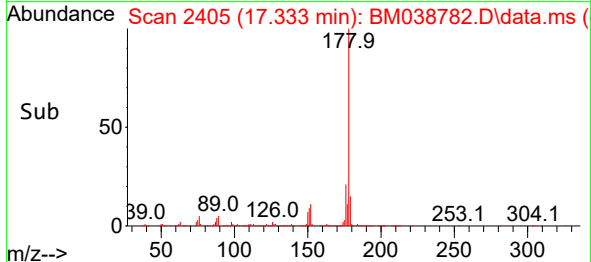
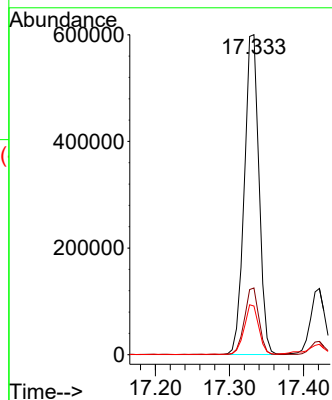
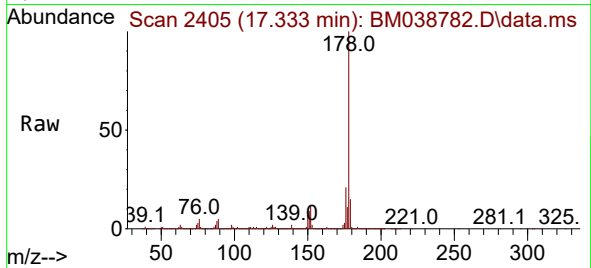




#71
Phenanthrene
Concen: 41.672 ng
RT: 17.333 min Scan# 2410
Delta R.T. -0.018 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

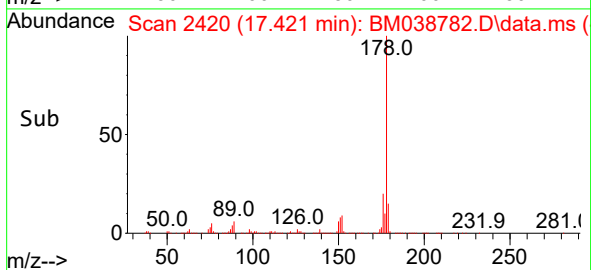
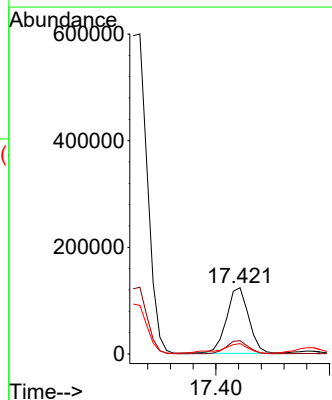
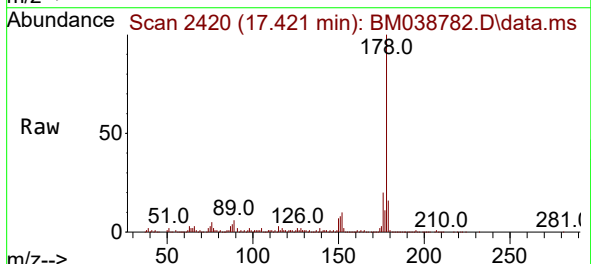
Instrument :
BNA_M
ClientSampleId :
SB-01-4.0-6.0-DUP

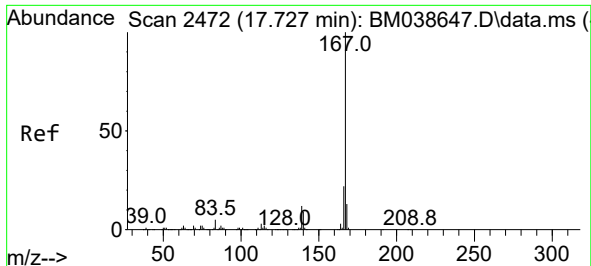
Tgt Ion:178 Resp: 820988
Ion Ratio Lower Upper
178 100
176 20.9 16.7 25.1
179 15.2 12.5 18.7



#72
Anthracene
Concen: 8.334 ng
RT: 17.421 min Scan# 2420
Delta R.T. -0.018 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

Tgt Ion:178 Resp: 167966
Ion Ratio Lower Upper
178 100
176 20.0 15.6 23.4
179 15.8 12.4 18.6

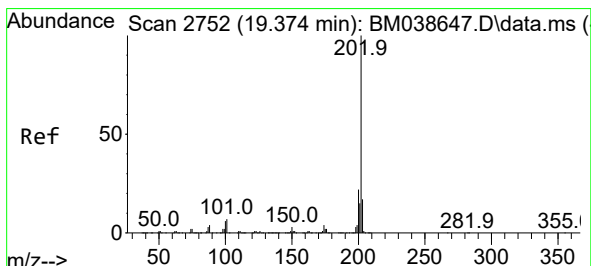
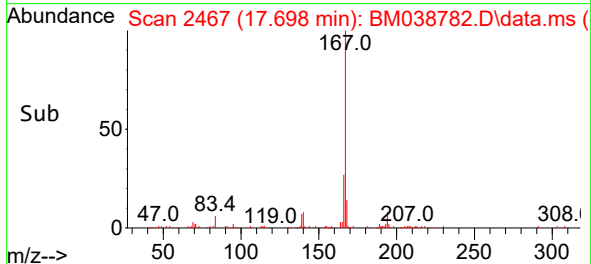
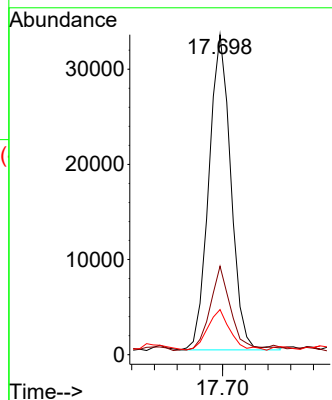
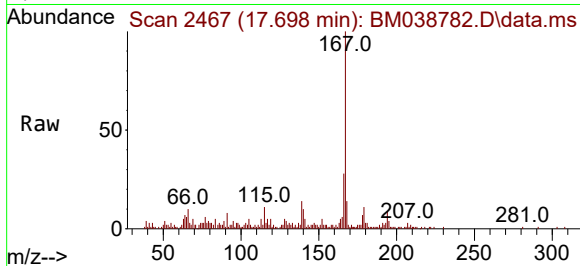




#73
 Carbazole
 Concen: 2.367 ng
 RT: 17.698 min Scan# 2472
 Delta R.T. -0.023 min
 Lab File: BM038782.D
 Acq: 17 Feb 2023 19:53

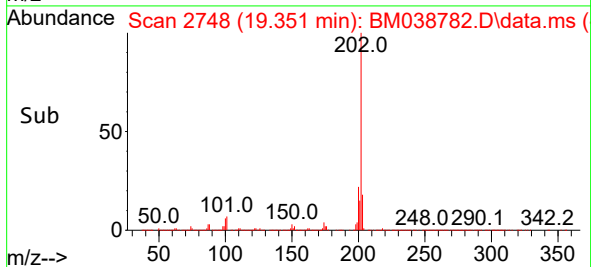
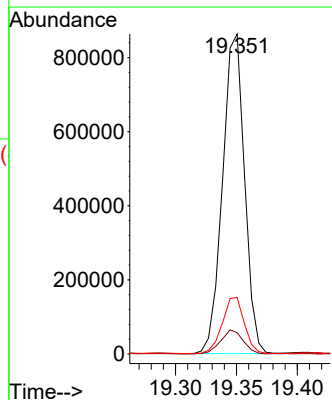
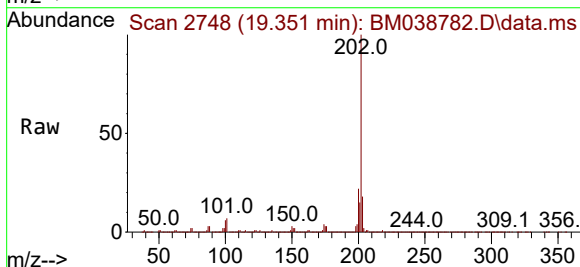
Instrument :
 BNA_M
 ClientSampleId :
 SB-01-4.0-6.0-DUP

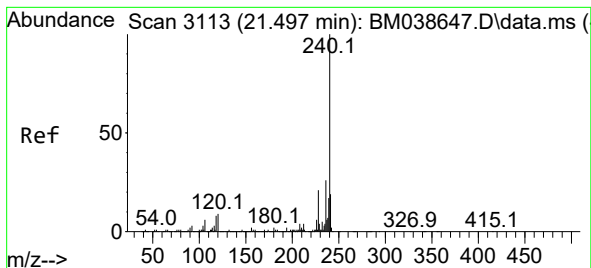
Tgt Ion:167 Resp: 44500
 Ion Ratio Lower Upper
 167 100
 166 27.6 17.8 26.6#
 139 14.1 9.4 14.2



#75
 Fluoranthene
 Concen: 52.483 ng
 RT: 19.351 min Scan# 2748
 Delta R.T. -0.012 min
 Lab File: BM038782.D
 Acq: 17 Feb 2023 19:53

Tgt Ion:202 Resp: 1085614
 Ion Ratio Lower Upper
 202 100
 101 6.7 0.0 27.4
 203 17.7 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.474 min Scan# 3113

Delta R.T. -0.018 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

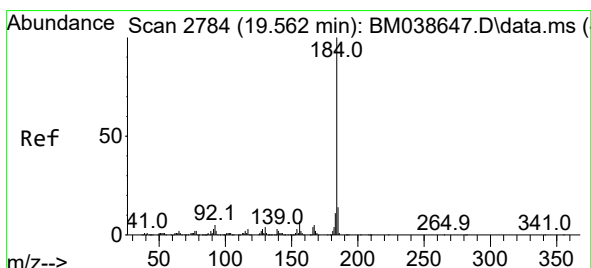
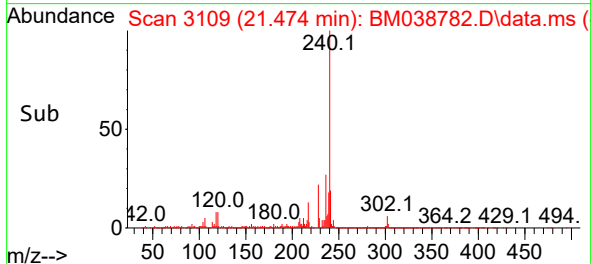
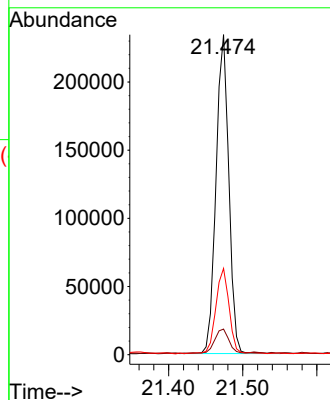
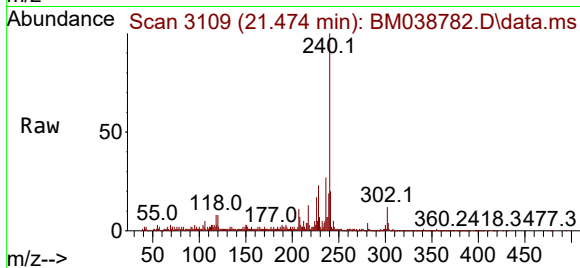
Tgt Ion:240 Resp: 279602

Ion Ratio Lower Upper

240 100

120 8.0 7.0 10.4

236 27.0 20.9 31.3



#77

Benzidine

Concen: 3.159 ng

RT: 19.539 min Scan# 2780

Delta R.T. -0.018 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

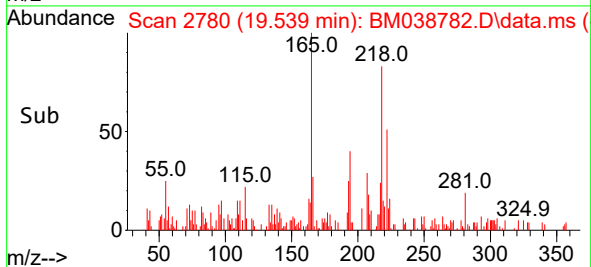
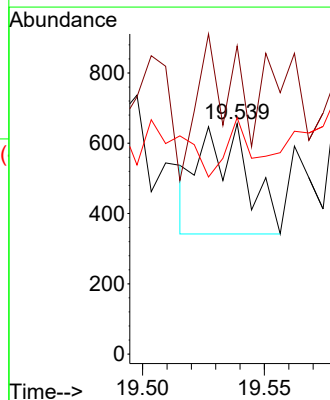
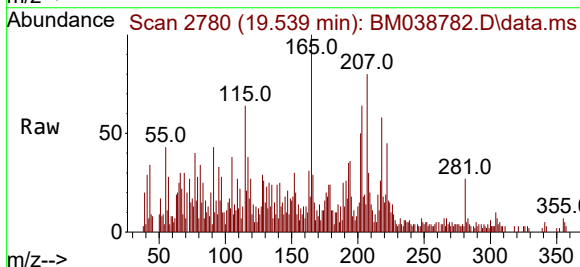
Tgt Ion:184 Resp: 411

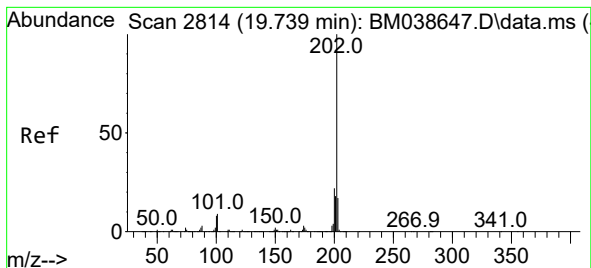
Ion Ratio Lower Upper

184 100

185 133.7 10.8 16.2#

183 102.6 8.8 13.2#





#78

Pyrene

Concen: 53.048 ng

RT: 19.709 min Scan# 2809

Delta R.T. -0.018 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

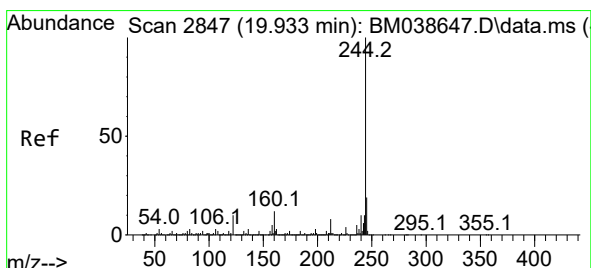
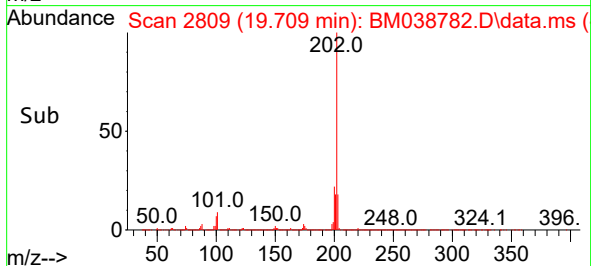
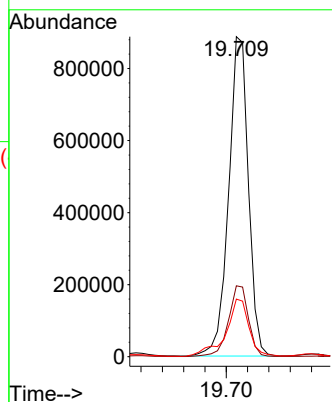
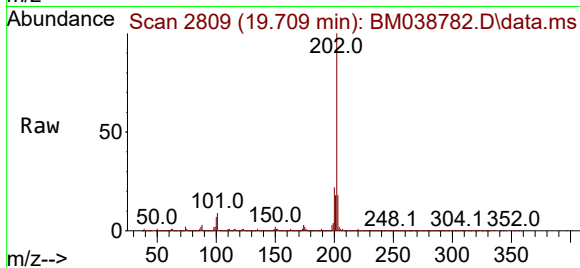
Tgt Ion:202 Resp: 1141951

Ion Ratio Lower Upper

202 100

200 22.2 17.8 26.6

203 18.0 13.5 20.3



#79

Terphenyl-d14

Concen: 80.413 ng

RT: 19.909 min Scan# 2843

Delta R.T. -0.018 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

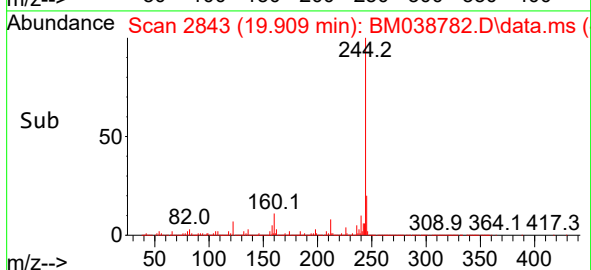
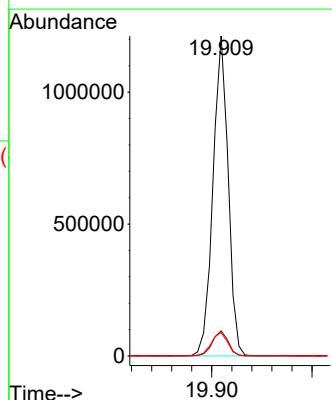
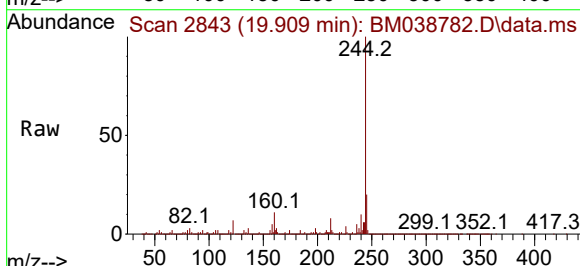
Tgt Ion:244 Resp: 1274103

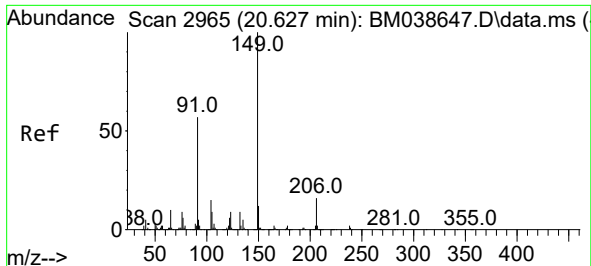
Ion Ratio Lower Upper

244 100

212 7.9 6.6 9.8

122 7.3 7.8 11.8#

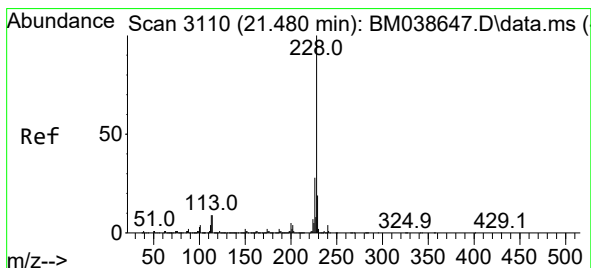
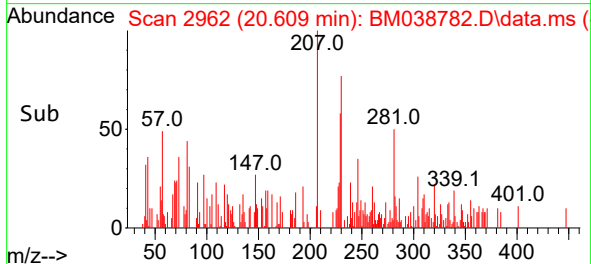
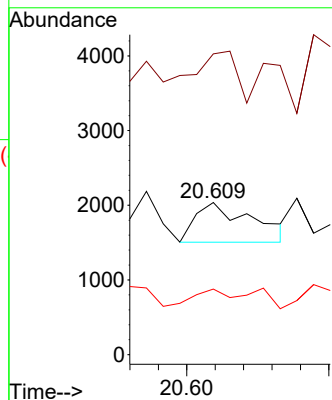
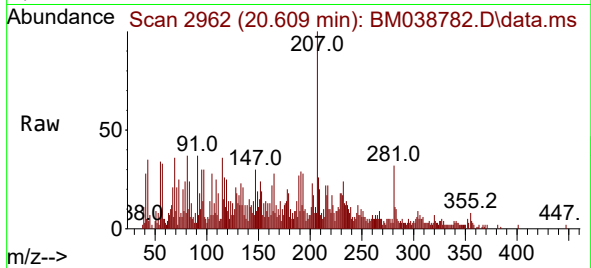




#80
Butylbenzylphthalate
Concen: 2.010 ng
RT: 20.609 min Scan# 2962
Delta R.T. -0.012 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

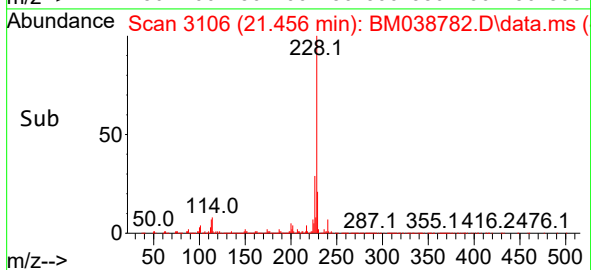
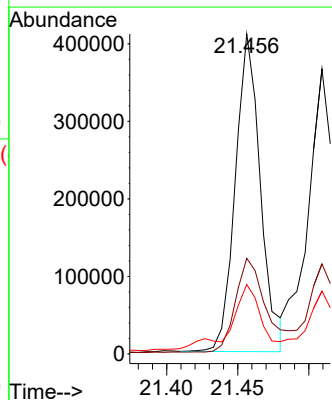
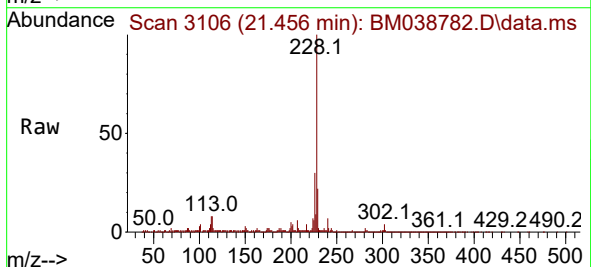
Instrument :
BNA_M
ClientSampleId :
SB-01-4.0-6.0-DUP

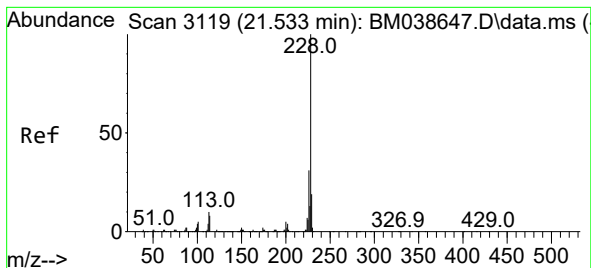
Tgt Ion:149 Resp: 734
Ion Ratio Lower Upper
149 100
91 197.8 45.6 68.4#
206 43.1 12.5 18.7#



#81
Benzo(a)anthracene
Concen: 25.430 ng
RT: 21.456 min Scan# 3106
Delta R.T. -0.018 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

Tgt Ion:228 Resp: 502968
Ion Ratio Lower Upper
228 100
226 29.9 22.2 33.4
229 21.7 15.5 23.3





#83

Chrysene

Concen: 24.308 ng

RT: 21.509 min Scan# 3115

Delta R.T. -0.018 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

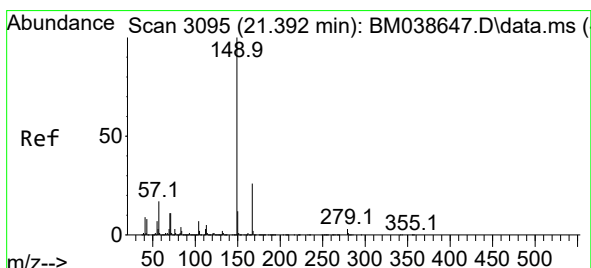
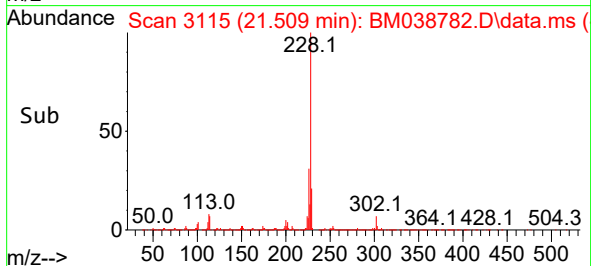
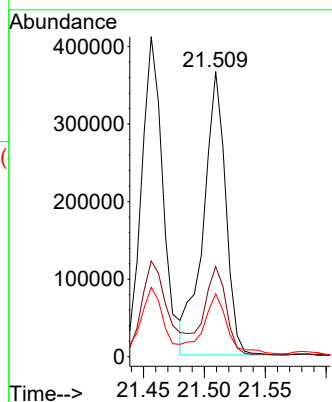
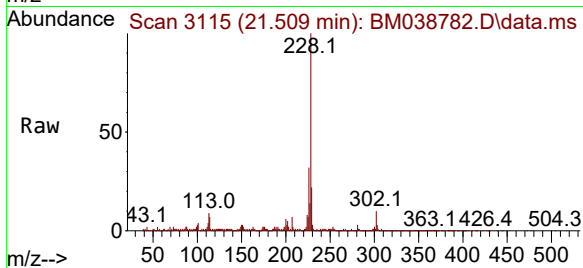
Tgt Ion:228 Resp: 463217

Ion Ratio Lower Upper

228 100

226 31.6 24.7 37.1

229 22.0 15.5 23.3



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.734 ng

RT: 21.368 min Scan# 3091

Delta R.T. -0.018 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

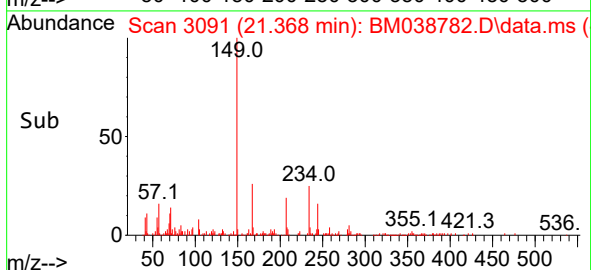
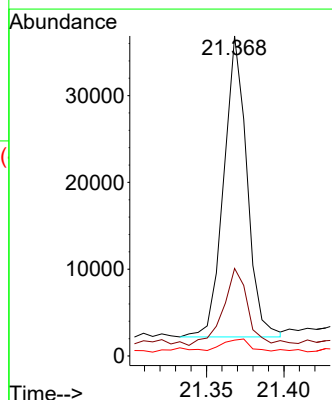
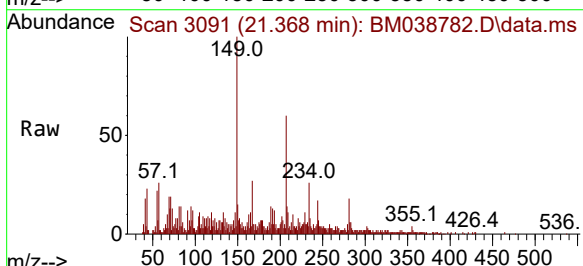
Tgt Ion:149 Resp: 36025

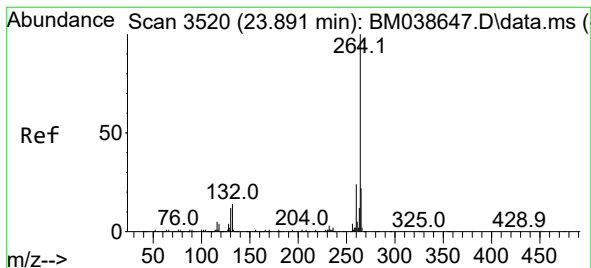
Ion Ratio Lower Upper

149 100

167 27.3 20.8 31.2

279 4.9 2.5 3.7#





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.868 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

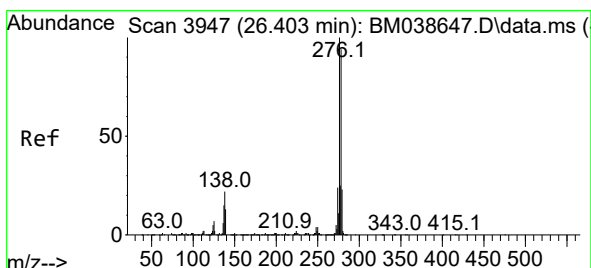
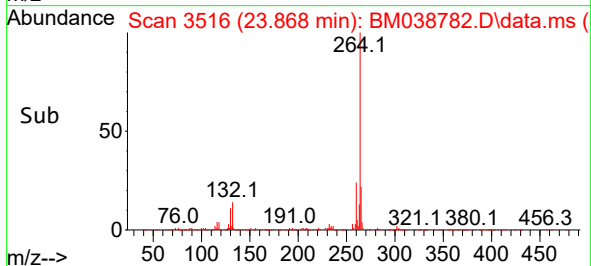
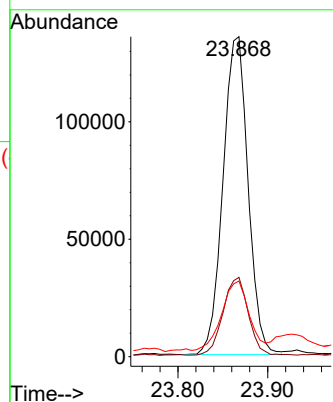
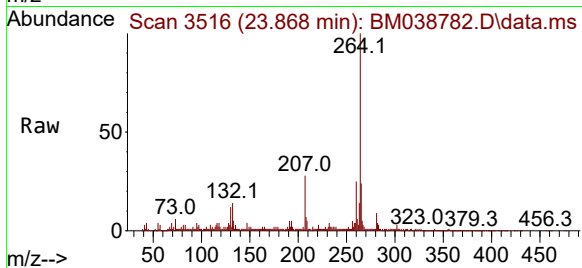
Tgt Ion:264 Resp: 262629

Ion Ratio Lower Upper

264 100

260 24.8 19.6 29.4

265 23.6 17.9 26.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.635 ng

RT: 26.344 min Scan# 3937

Delta R.T. -0.035 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

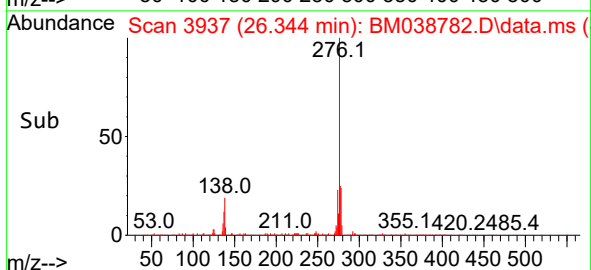
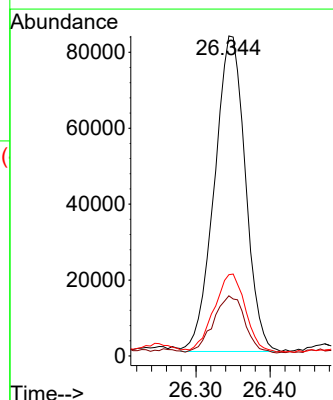
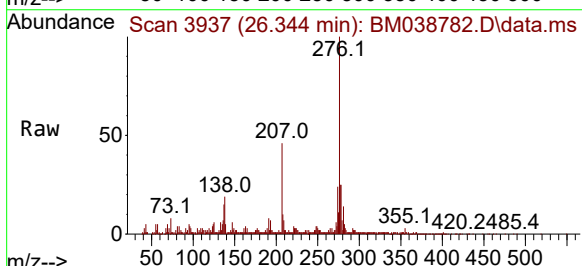
Tgt Ion:276 Resp: 240680

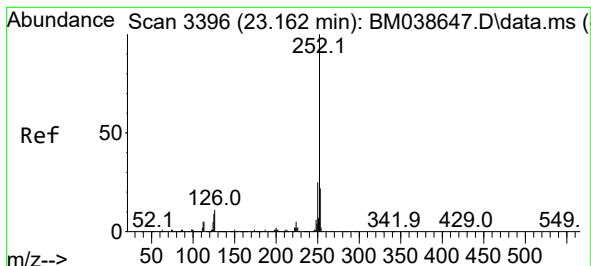
Ion Ratio Lower Upper

276 100

138 18.5 17.2 25.8

277 24.9 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 31.031 ng

RT: 23.139 min Scan# 3392

Delta R.T. -0.012 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

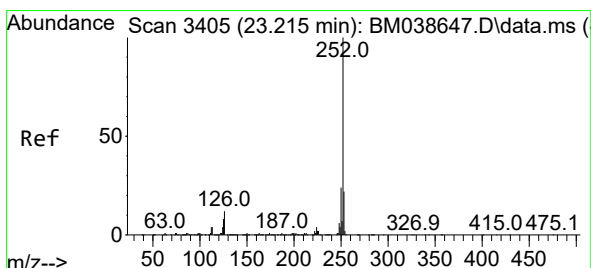
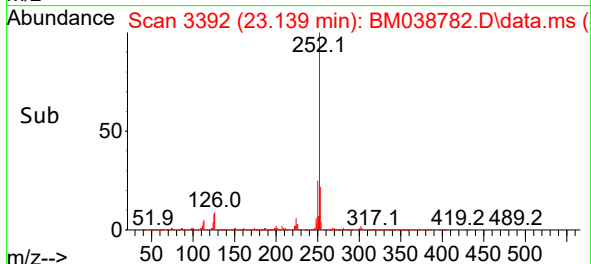
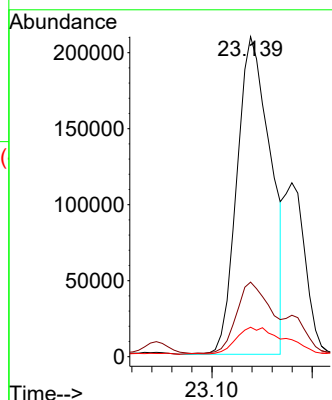
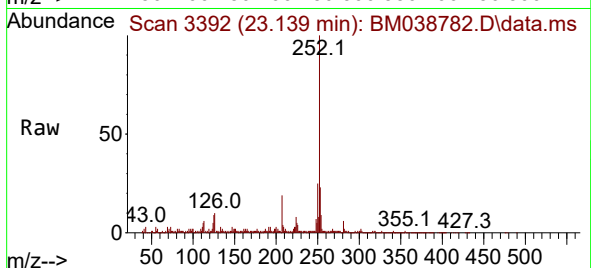
Tgt Ion:252 Resp: 488130

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.2

125 9.2 7.0 10.6



#89

Benzo(k)fluoranthene

Concen: 30.558 ng

RT: 23.139 min Scan# 3392

Delta R.T. -0.059 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

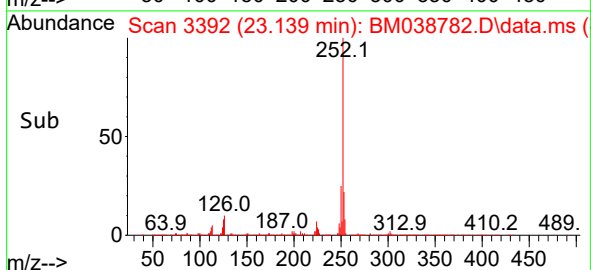
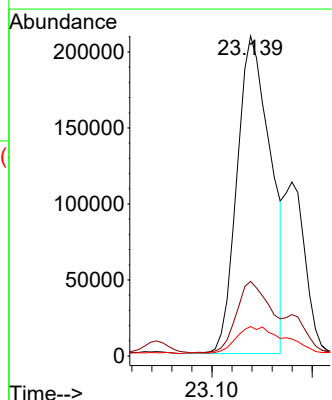
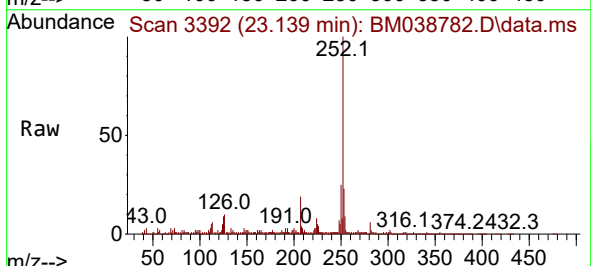
Tgt Ion:252 Resp: 488130

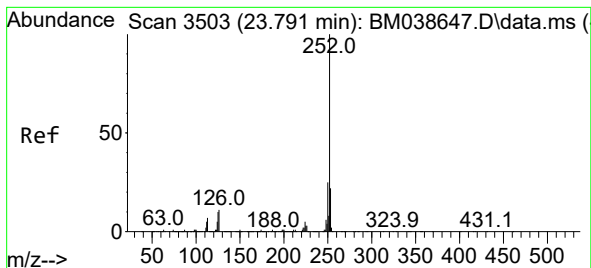
Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

125 9.2 6.6 9.8





#90

Benzo(a)pyrene

Concen: 23.940 ng

RT: 23.762 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

Instrument :

BNA_M

ClientSampleId :

SB-01-4.0-6.0-DUP

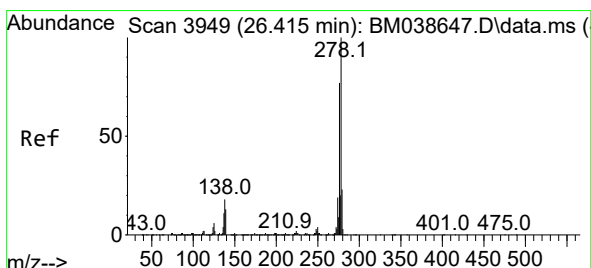
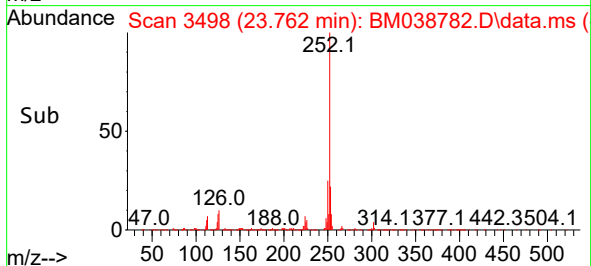
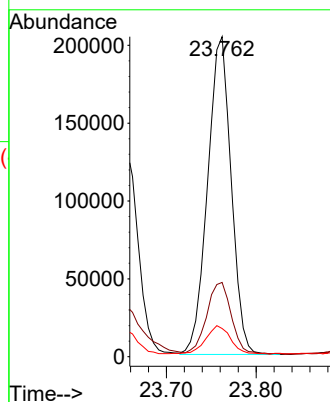
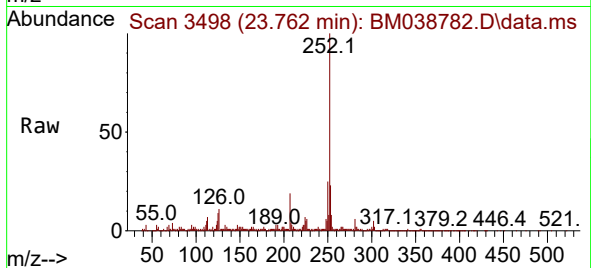
Tgt Ion:252 Resp: 372407

Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

125 8.8 7.8 11.8



#91

Dibenzo(a,h)anthracene

Concen: 4.020 ng

RT: 26.344 min Scan# 3937

Delta R.T. -0.041 min

Lab File: BM038782.D

Acq: 17 Feb 2023 19:53

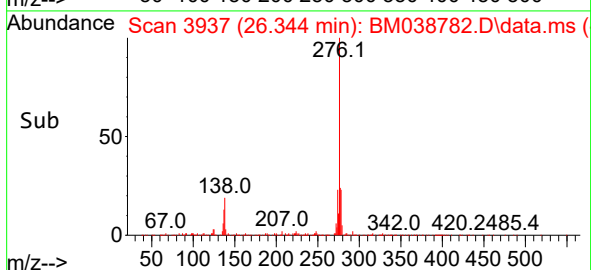
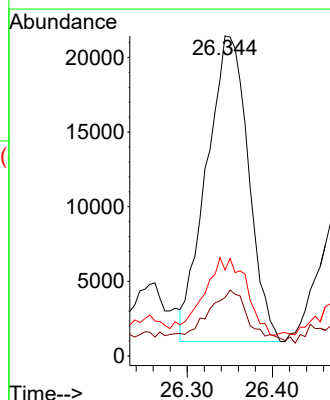
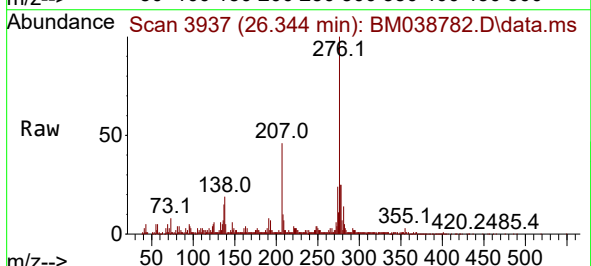
Tgt Ion:278 Resp: 69970

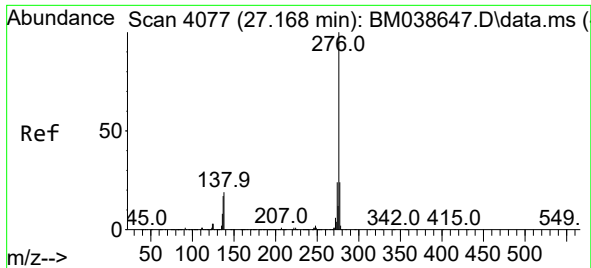
Ion Ratio Lower Upper

278 100

139 18.3 10.5 15.7#

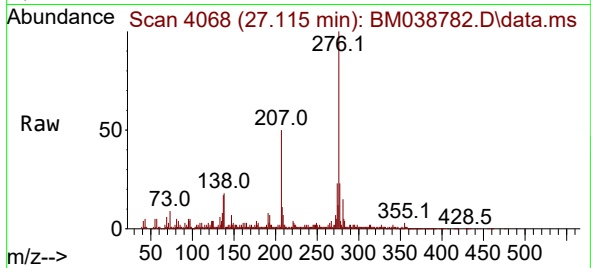
279 26.9 18.7 28.1





#92
Benzo(g,h,i)perylene
Concen: 14.414 ng
RT: 27.115 min Scan# 40
Delta R.T. -0.029 min
Lab File: BM038782.D
Acq: 17 Feb 2023 19:53

Instrument :
BNA_M
ClientSampleId :
SB-01-4.0-6.0-DUP



Tgt Ion:276 Resp: 253589
Ion Ratio Lower Upper
276 100
277 23.1 19.1 28.7
138 18.4 15.3 22.9

