

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110223\
 Data File : BM042562.D
 Acq On : 02 Nov 2023 15:37
 Operator : MA/JU
 Sample : 04938-13DL 100X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-7(0-2)DL

Quant Time: Nov 02 22:41:23 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 02:55:18 2023
 Response via : Initial Calibration

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

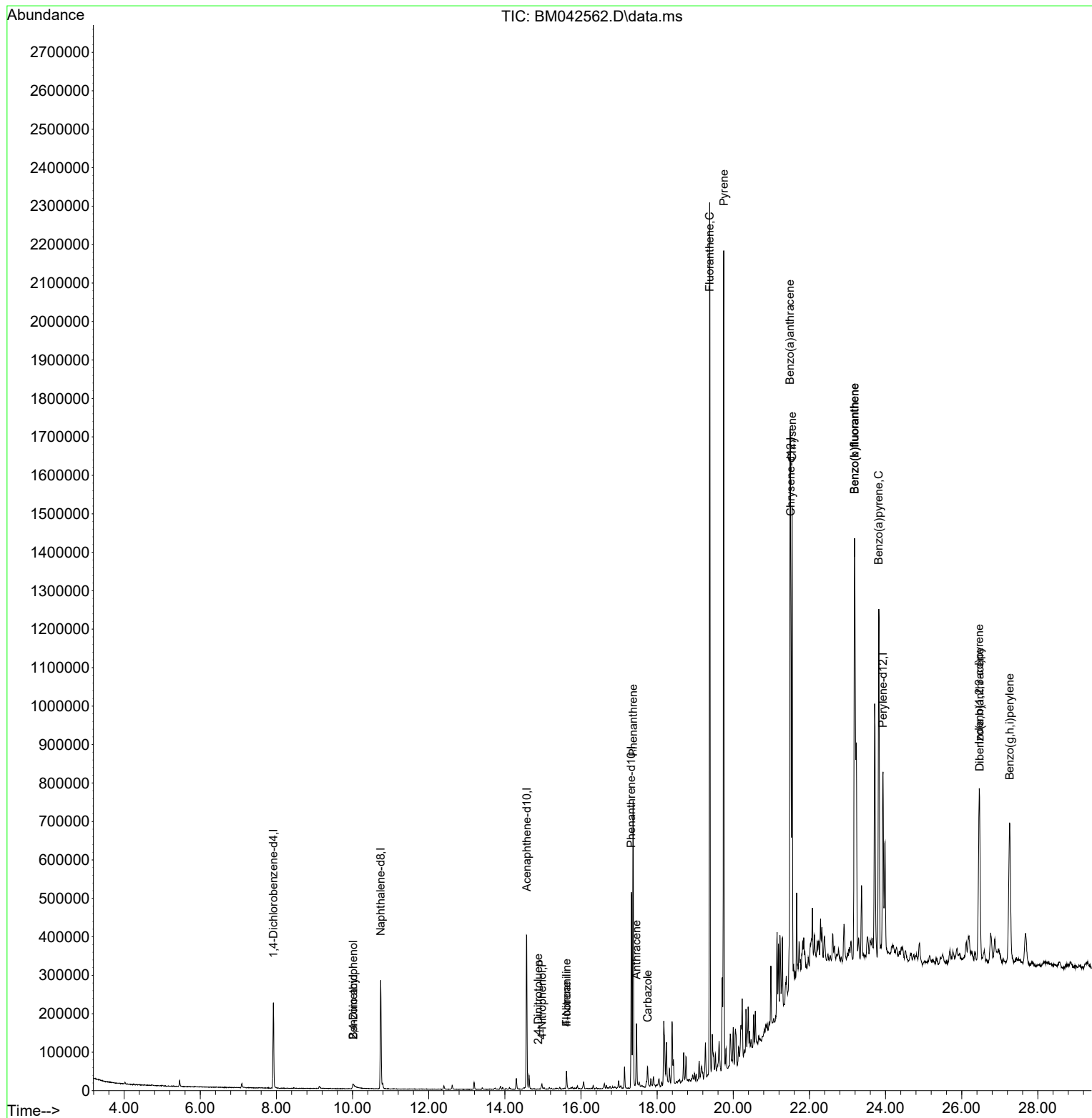
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	54776	20.000	ng	0.00
21) Naphthalene-d8	10.740	136	207959	20.000	ng	-0.01
39) Acenaphthene-d10	14.575	164	129499	20.000	ng	0.00
64) Phenanthrene-d10	17.321	188	289971	20.000	ng	0.00
76) Chrysene-d12	21.509	240	337833	20.000	ng	0.00
86) Perylene-d12	23.933	264	366413	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	5959	1.756	ng	0.00
7) Phenol-d6	7.093	99	6711	1.442	ng	0.00
23) Nitrobenzene-d5	9.128	82	4717	1.057	ng	0.00
42) 2,4,6-Tribromophenol	16.074	330	2689	1.590	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	9430	0.980	ng	0.00
79) Terphenyl-d14	19.939	244	19163	0.962	ng	0.00
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	10.016	122	6507	2.154	ng	# 2
32) Benzoic acid	10.016	122	6507	6.533	ng	93
56) 4-Nitrophenol	14.975	139	3081	8.506	ng	# 1
57) 2,4-Dinitrotoluene	14.880	165	54	3.988	ng	# 5
58) Fluorene	15.622	166	21302	2.218	ng	# 97
62) 4-Nitroaniline	15.622	138	132	5.797	ng	# 12
71) Phenanthrene	17.369	178	406069	26.797	ng	100
72) Anthracene	17.457	178	96546	6.432	ng	99
73) Carbazole	17.751	167	33090	2.710	ng	97
75) Fluoranthene	19.380	202	1263961	71.007	ng	98
78) Pyrene	19.751	202	1224316	52.777	ng	99
81) Benzo(a)anthracene	21.492	228	703238	32.717	ng	100
83) Chrysene	21.545	228	635965	29.127	ng	96
87) Indeno(1,2,3-cd)pyrene	26.462	276	480764	22.045	ng	# 92
88) Benzo(b)fluoranthene	23.186	252	948570	46.467	ng	98
89) Benzo(k)fluoranthene	23.186	252	948570	41.701	ng	98
90) Benzo(a)pyrene	23.821	252	685587	34.113	ng	95
91) Dibenzo(a,h)anthracene	26.474	278	111204	9.185	ng	97
92) Benzo(g,h,i)perylene	27.262	276	483861	25.174	ng	96

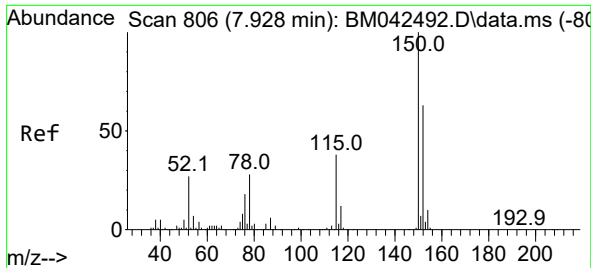
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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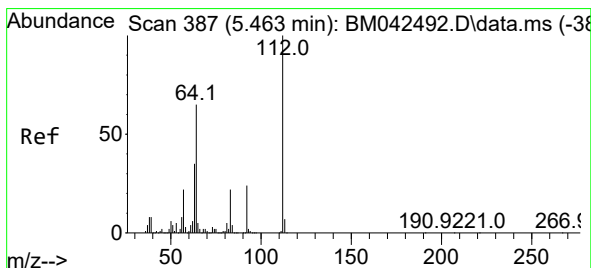
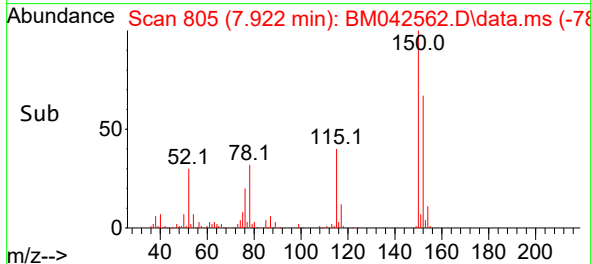
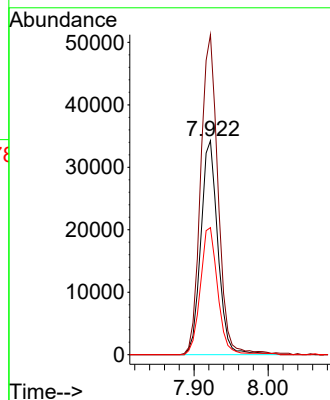
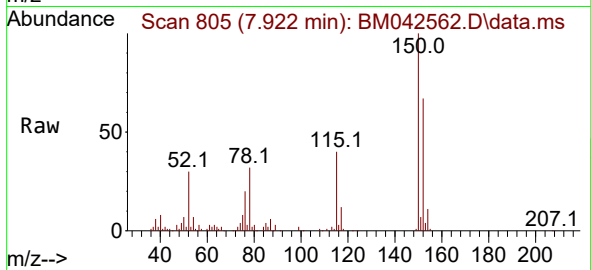




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

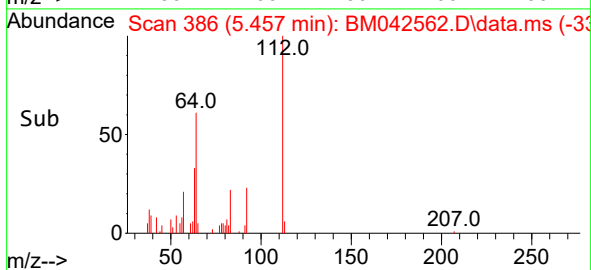
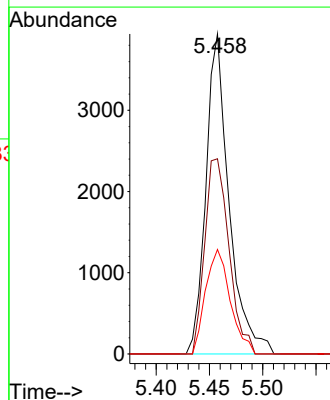
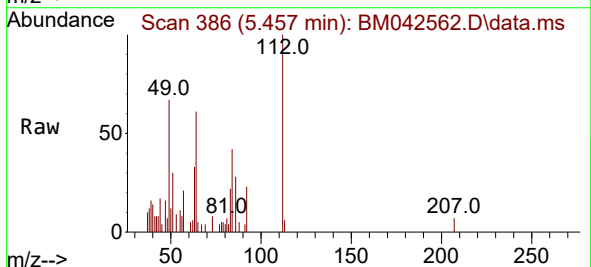
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)DL

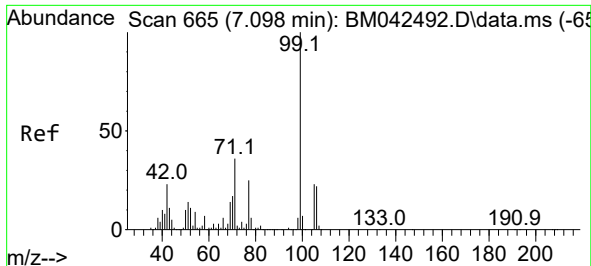
Tgt Ion:152 Resp: 54776
Ion Ratio Lower Upper
152 100
150 149.6 127.4 191.0
115 59.4 47.9 71.9



#5
2-Fluorophenol
Concen: 1.756 ng
RT: 5.457 min Scan# 386
Delta R.T. -0.006 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

Tgt Ion:112 Resp: 5959
Ion Ratio Lower Upper
112 100
64 61.0 52.1 78.1
63 32.7 28.3 42.5

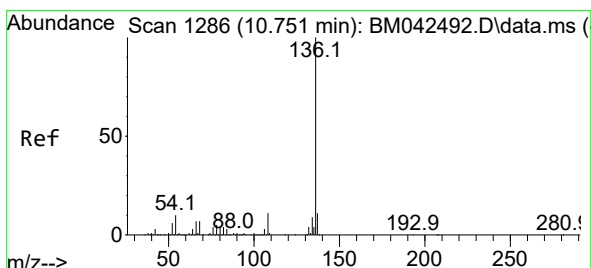
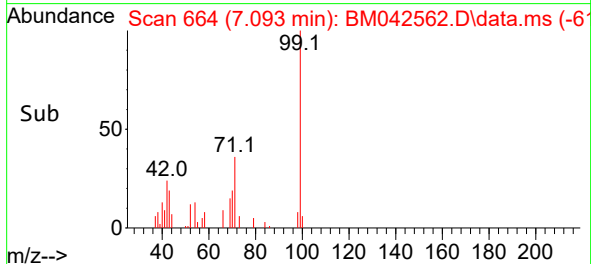
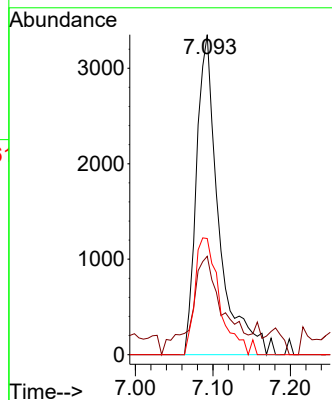
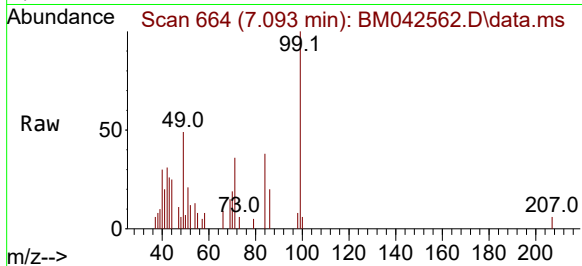




#7
Phenol-d6
Concen: 1.442 ng
RT: 7.093 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

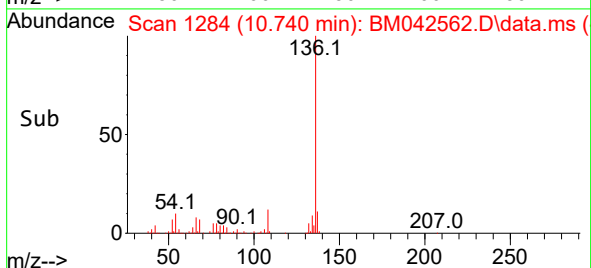
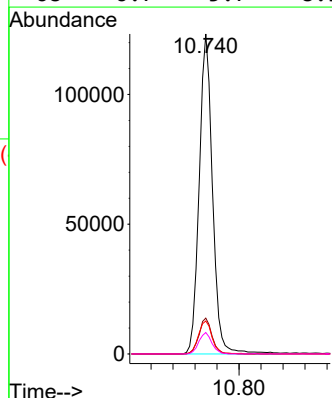
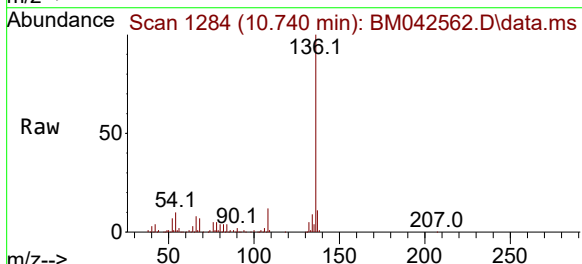
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)DL

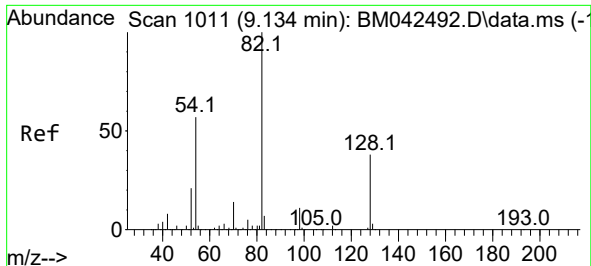
Tgt Ion: 99 Resp: 6711
Ion Ratio Lower Upper
99 100
42 30.8 18.7 28.1#
71 36.3 29.1 43.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.740 min Scan# 1284
Delta R.T. -0.011 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

Tgt Ion: 136 Resp: 207959
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.6
54 10.3 8.0 12.0
68 6.7 5.7 8.5





#23

Nitrobenzene-d5

Concen: 1.057 ng

RT: 9.128 min Scan# 1101

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

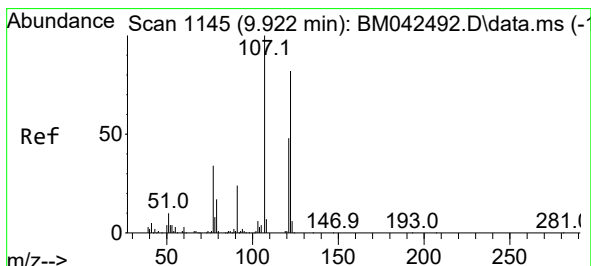
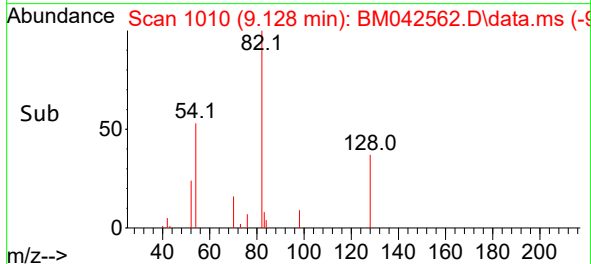
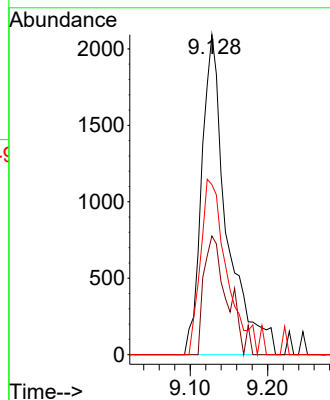
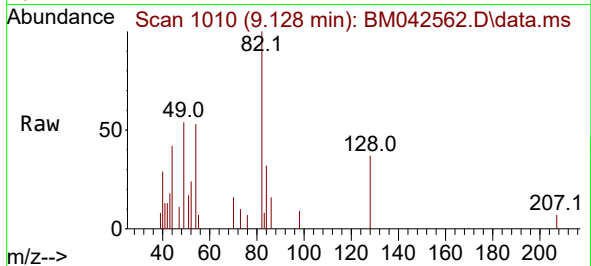
Tgt Ion: 82 Resp: 4717

Ion Ratio Lower Upper

82 100

128 37.1 30.7 46.1

54 53.1 45.3 67.9



#27

2,4-Dimethylphenol

Concen: 2.154 ng

RT: 10.016 min Scan# 1161

Delta R.T. 0.094 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

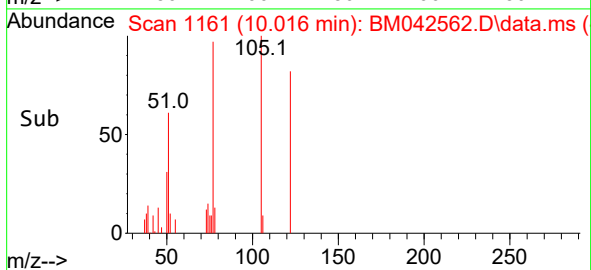
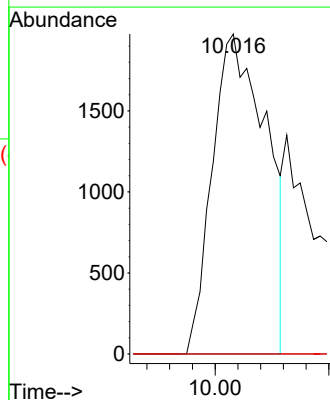
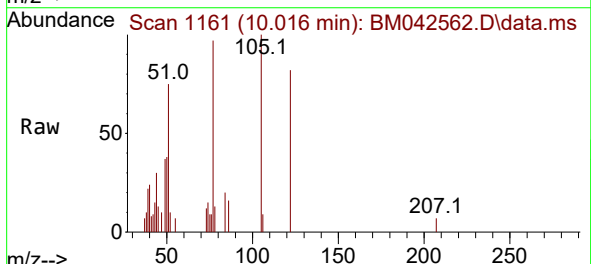
Tgt Ion: 122 Resp: 6507

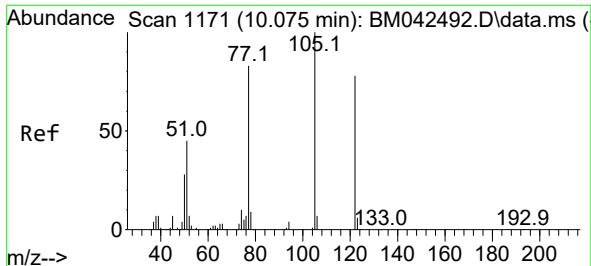
Ion Ratio Lower Upper

122 100

107 0.0 95.4 143.2#

121 0.0 46.0 69.0#

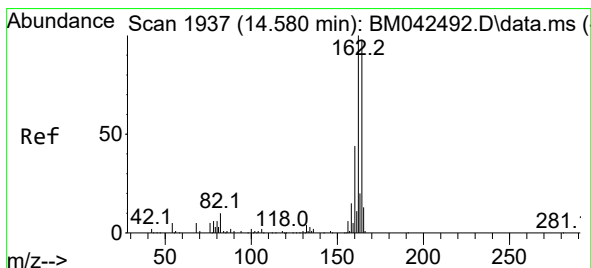
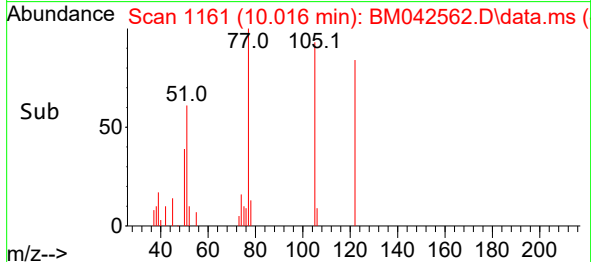
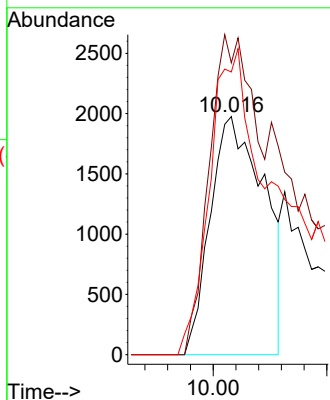
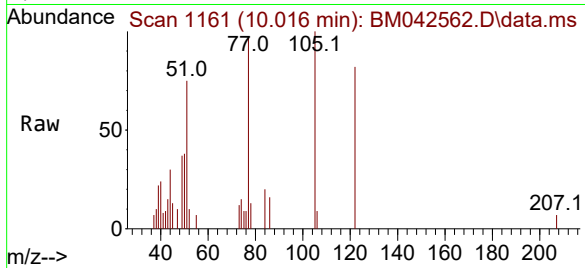




#32
Benzoic acid
Concen: 6.533 ng
RT: 10.016 min Scan# 1171
Delta R.T. -0.059 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

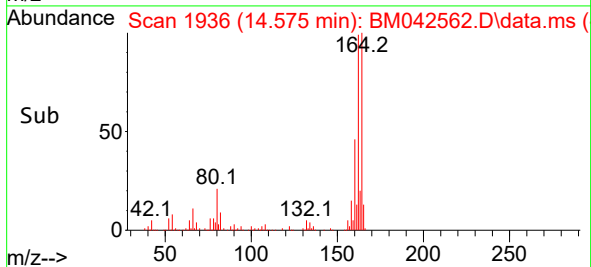
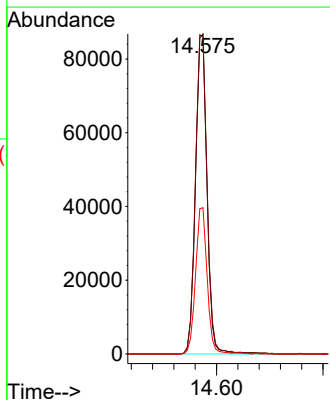
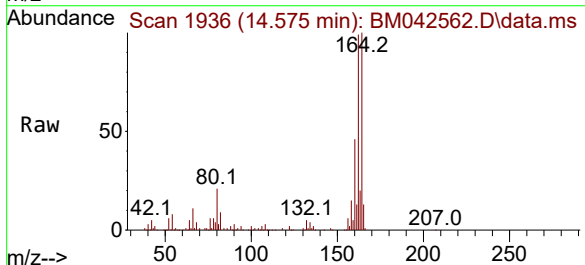
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)DL

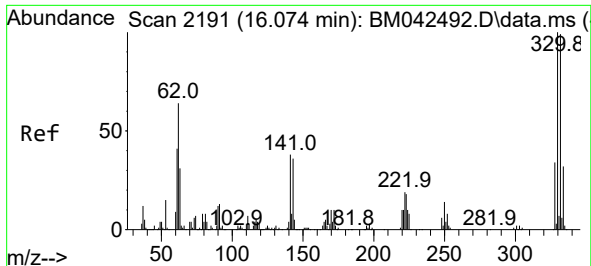
Tgt Ion:	122	Resp:	6507
Ion	Ratio	Lower	Upper
122	100		
105	122.6	105.2	145.2
77	118.8	84.8	124.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.575 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

Tgt Ion:	164	Resp:	129499
Ion	Ratio	Lower	Upper
164	100		
162	99.1	81.6	122.4
160	45.7	36.2	54.4





#42

2,4,6-Tribromophenol

Concen: 1.590 ng

RT: 16.074 min Scan# 2191

Delta R.T. 0.000 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

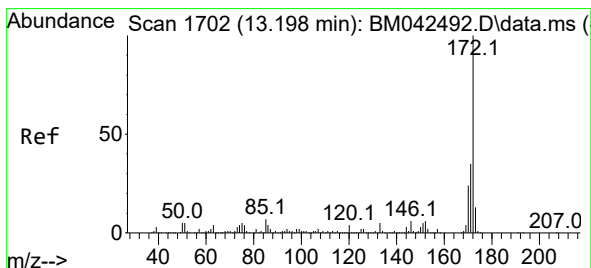
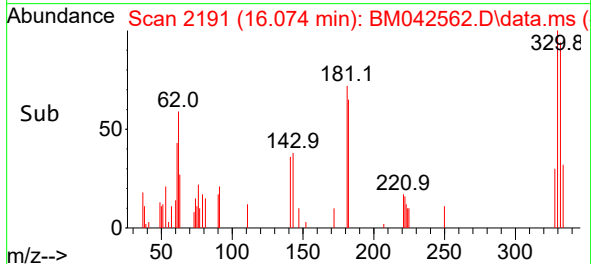
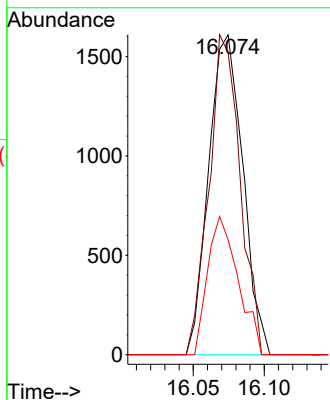
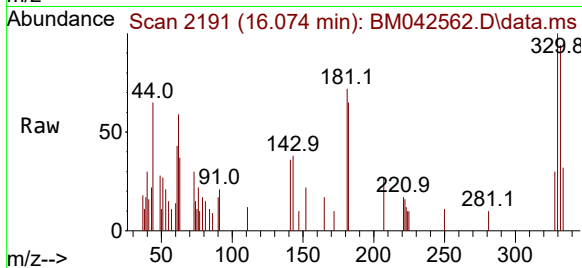
Tgt Ion:330 Resp: 2689

Ion Ratio Lower Upper

330 100

332 91.3 78.8 118.2

141 38.6 31.1 46.7



#45

2-Fluorobiphenyl

Concen: 0.980 ng

RT: 13.192 min Scan# 1701

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

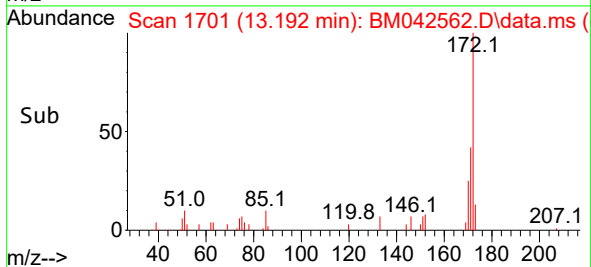
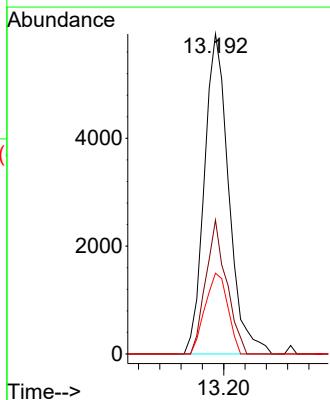
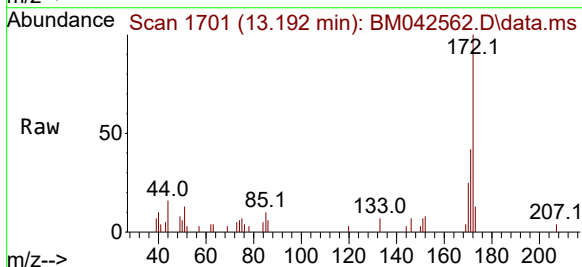
Tgt Ion:172 Resp: 9430

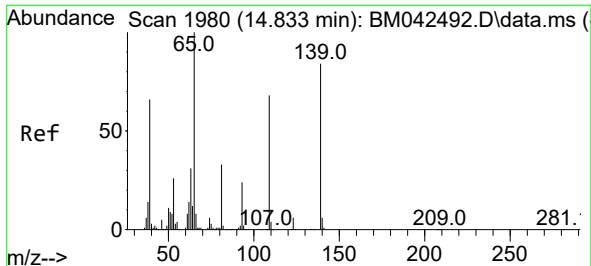
Ion Ratio Lower Upper

172 100

171 41.8 28.2 42.2

170 25.3 19.0 28.4

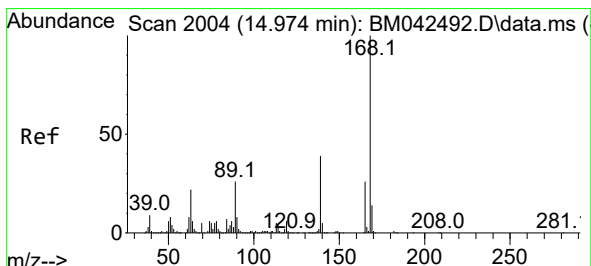
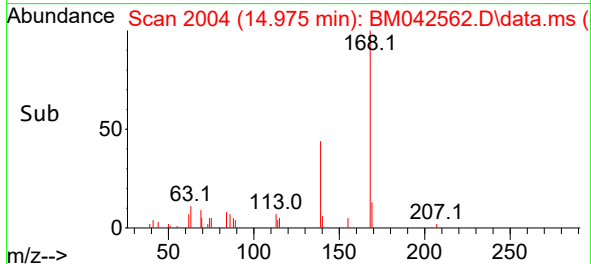
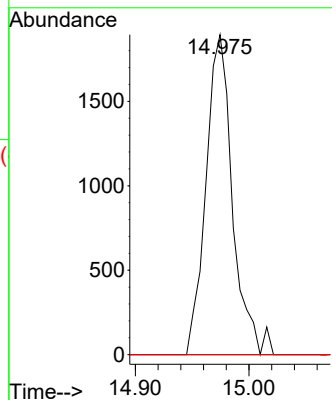
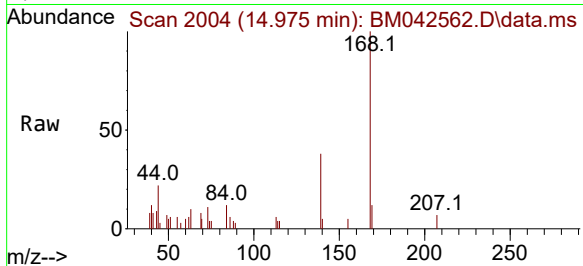




#56
4-Nitrophenol
Concen: 8.506 ng
RT: 14.975 min Scan# 20
Delta R.T. 0.142 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

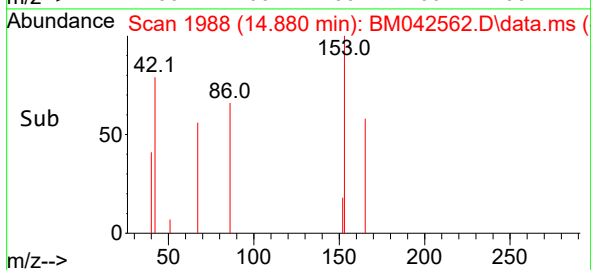
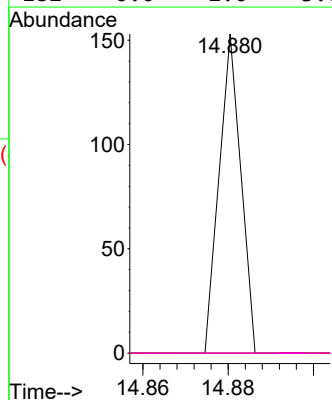
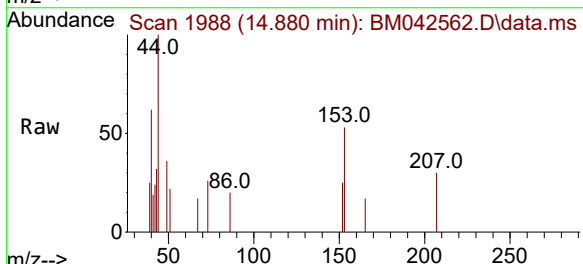
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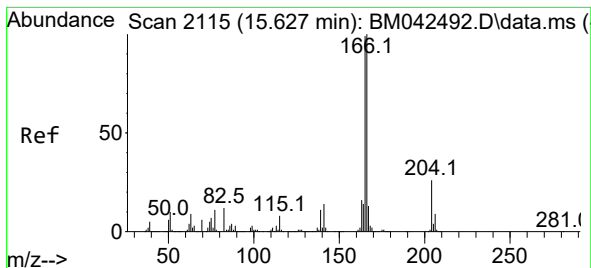
Tgt Ion:139 Resp: 3081
Ion Ratio Lower Upper
139 100
109 0.0 61.3 101.3#
65 0.0 100.2 140.2#



#57
2,4-Dinitrotoluene
Concen: 3.988 ng
RT: 14.880 min Scan# 1988
Delta R.T. -0.094 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

Tgt Ion:165 Resp: 54
Ion Ratio Lower Upper
165 100
63 0.0 66.7 100.1#
89 0.0 80.2 120.4#
182 0.0 2.0 3.0#





#58

Fluorene

Concen: 2.218 ng

RT: 15.622 min Scan# 2115

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

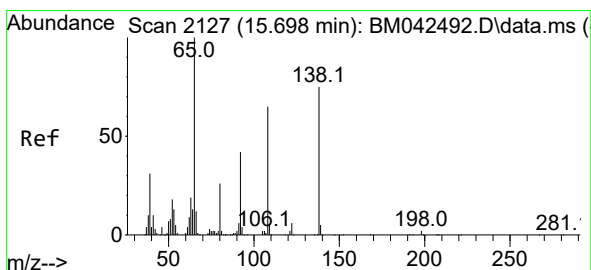
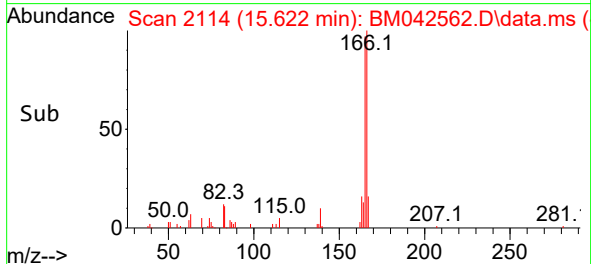
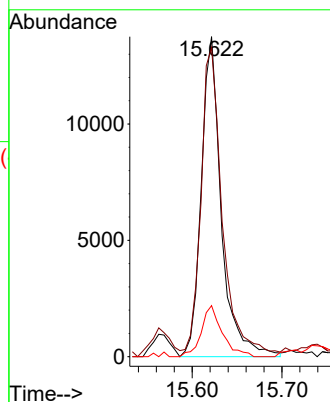
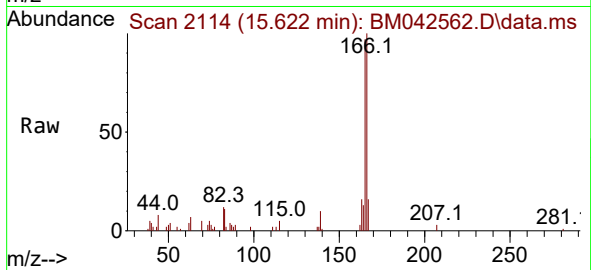
Tgt Ion:166 Resp: 21302

Ion Ratio Lower Upper

166 100

165 96.6 79.3 118.9

167 16.0 10.5 15.7#



#62

4-Nitroaniline

Concen: 5.797 ng

RT: 15.622 min Scan# 2114

Delta R.T. -0.076 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

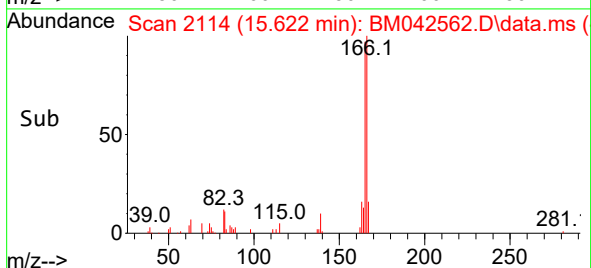
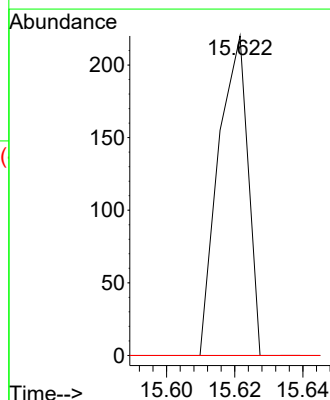
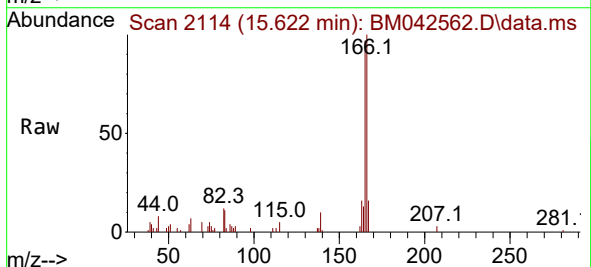
Tgt Ion:138 Resp: 132

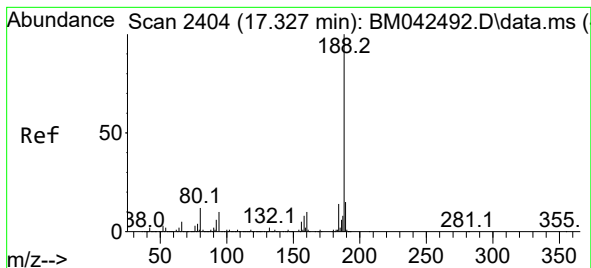
Ion Ratio Lower Upper

138 100

92 0.0 37.0 77.0#

108 0.0 67.2 107.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.321 min Scan# 2411

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

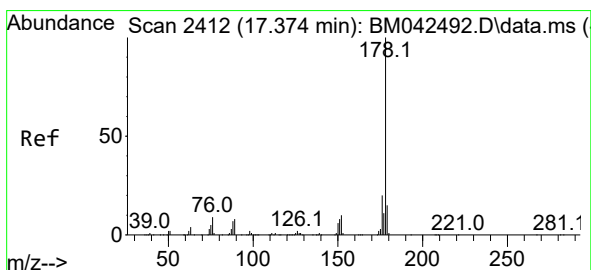
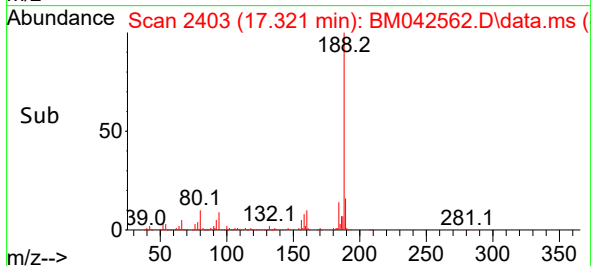
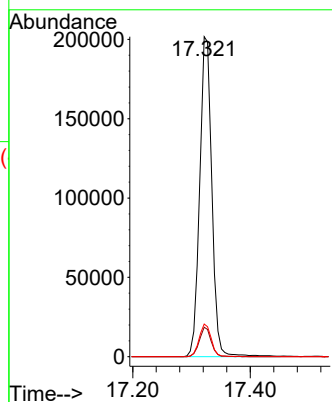
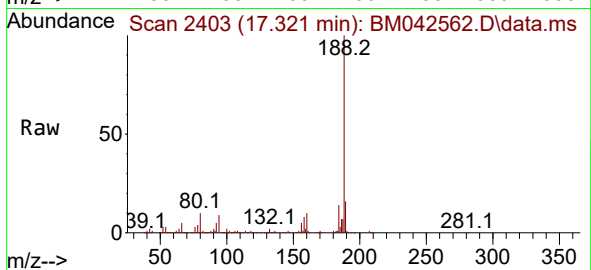
Tgt Ion:188 Resp: 289971

Ion Ratio Lower Upper

188 100

94 9.2 8.2 12.4

80 10.2 9.4 14.2



#71

Phenanthrene

Concen: 26.797 ng

RT: 17.369 min Scan# 2411

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

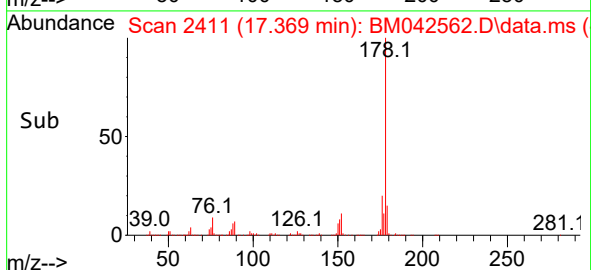
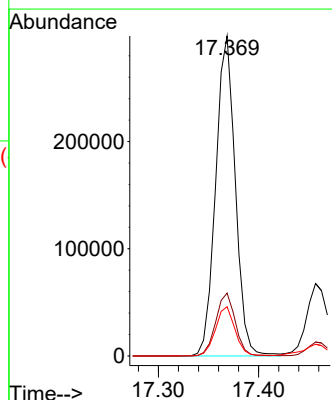
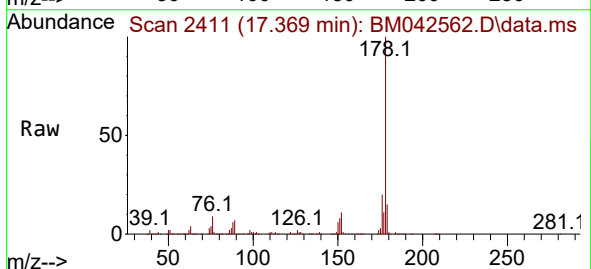
Tgt Ion:178 Resp: 406069

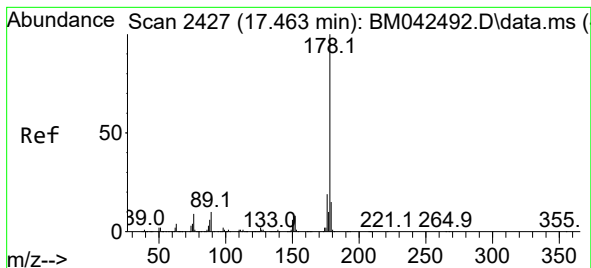
Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

179 15.4 12.2 18.4





#72

Anthracene

Concen: 6.432 ng

RT: 17.457 min Scan# 2427

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

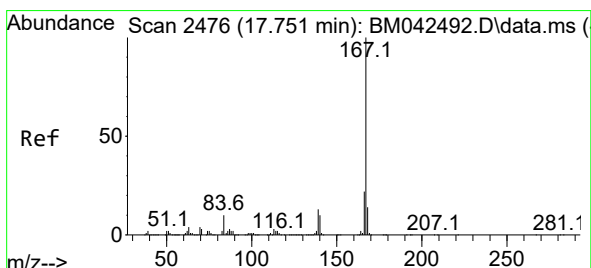
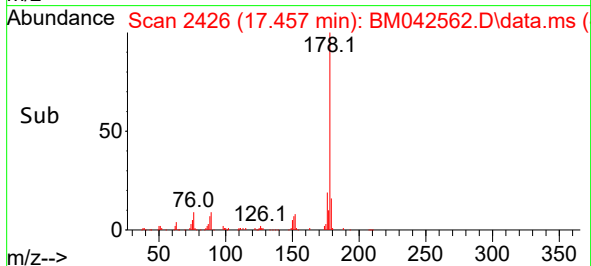
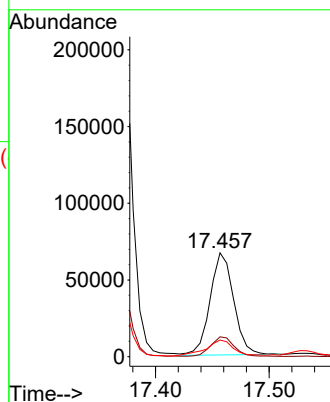
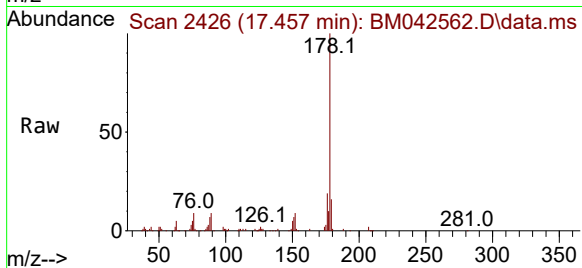
Tgt Ion:178 Resp: 96546

Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

179 16.1 12.3 18.5



#73

Carbazole

Concen: 2.710 ng

RT: 17.751 min Scan# 2476

Delta R.T. -0.000 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

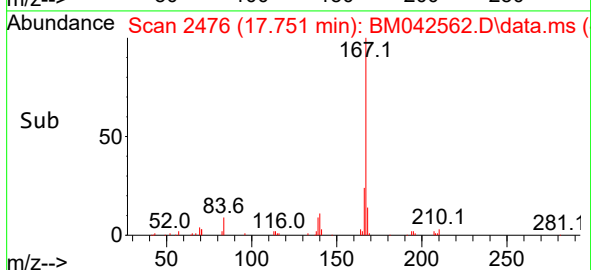
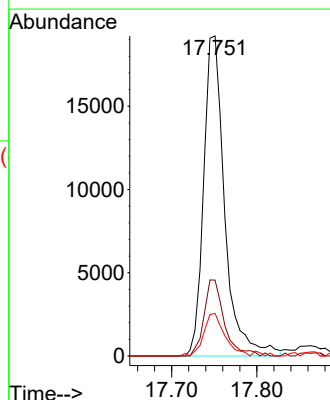
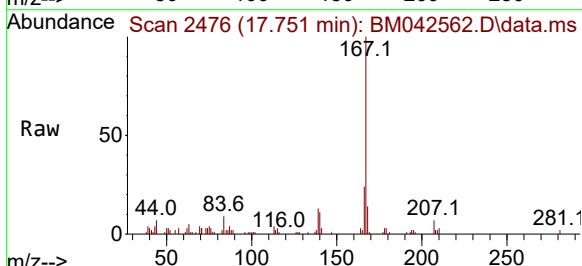
Tgt Ion:167 Resp: 33090

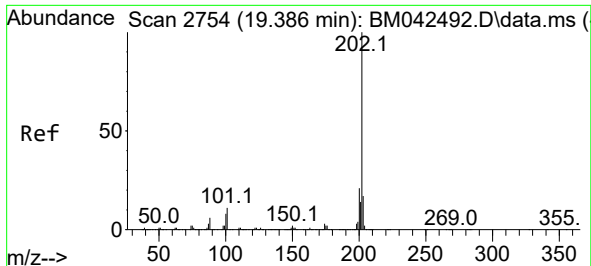
Ion Ratio Lower Upper

167 100

166 23.7 17.4 26.2

139 13.3 10.5 15.7

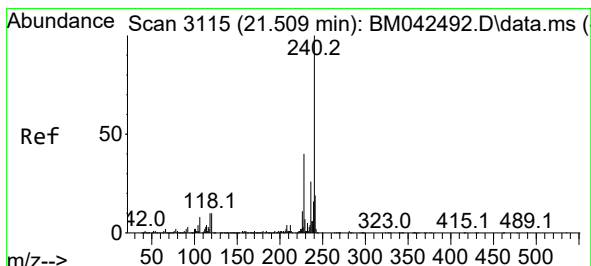
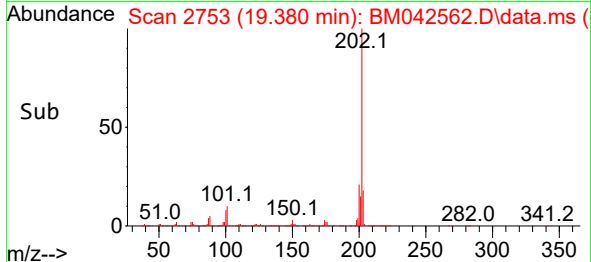
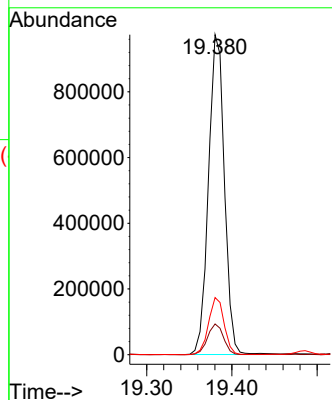
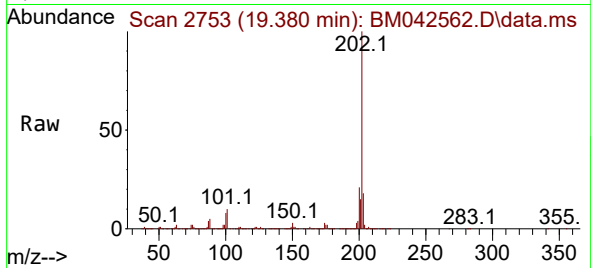




#75
Fluoranthene
Concen: 71.007 ng
RT: 19.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

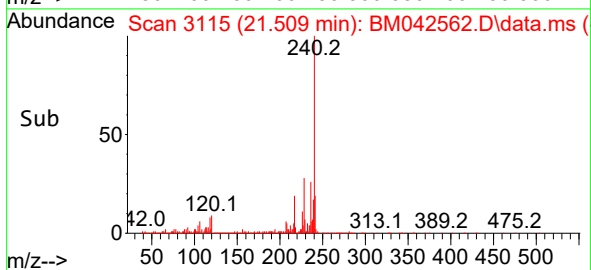
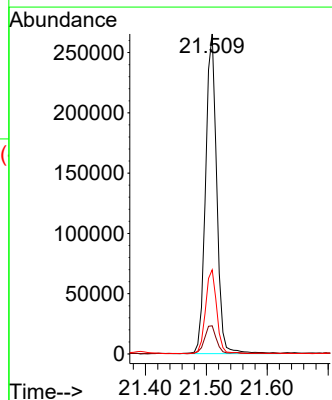
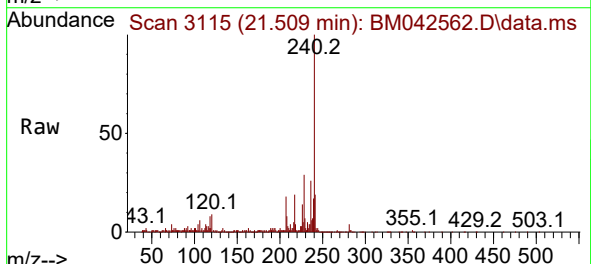
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)DL

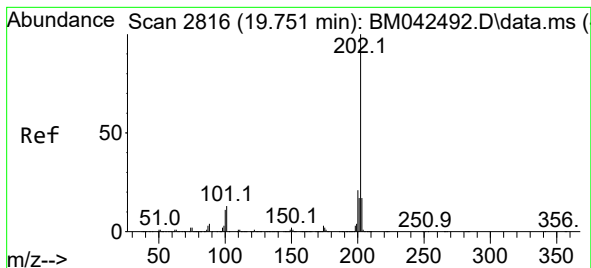
Tgt Ion:202 Resp: 1263961
Ion Ratio Lower Upper
202 100
101 9.6 0.0 30.5
203 17.8 0.0 37.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.509 min Scan# 3115
Delta R.T. 0.000 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

Tgt Ion:240 Resp: 337833
Ion Ratio Lower Upper
240 100
120 8.8 8.3 12.5
236 26.3 20.8 31.2





#78

Pyrene

Concen: 52.777 ng

RT: 19.751 min Scan# 2816

Delta R.T. 0.000 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

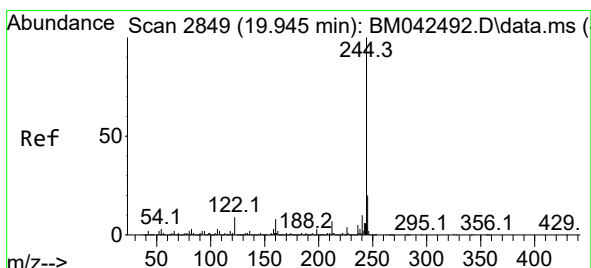
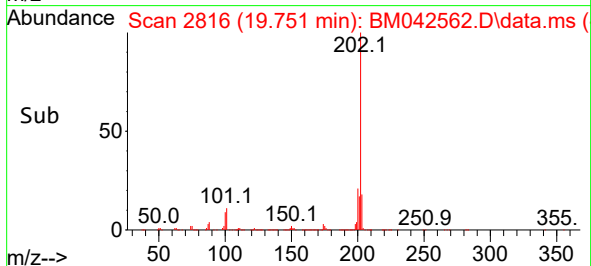
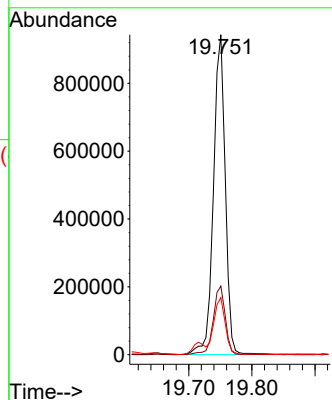
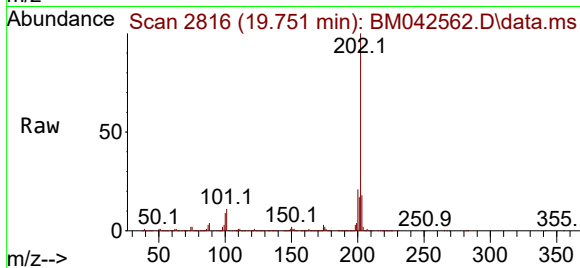
Tgt Ion:202 Resp: 1224316

Ion Ratio Lower Upper

202 100

200 21.5 16.9 25.3

203 17.9 13.7 20.5



#79

Terphenyl-d14

Concen: 0.962 ng

RT: 19.939 min Scan# 2848

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

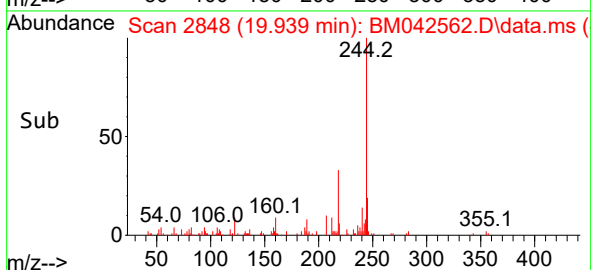
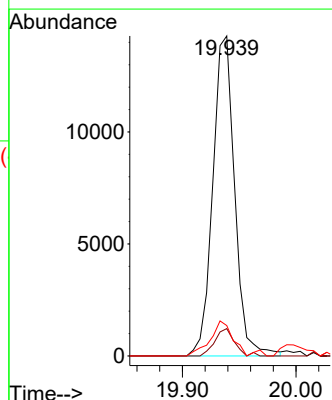
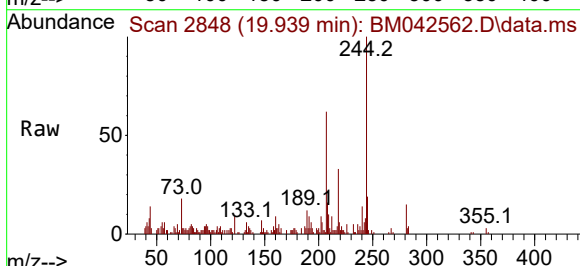
Tgt Ion:244 Resp: 19163

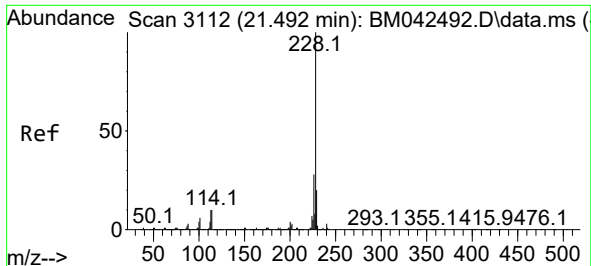
Ion Ratio Lower Upper

244 100

212 8.5 5.4 8.2#

122 9.5 7.2 10.8

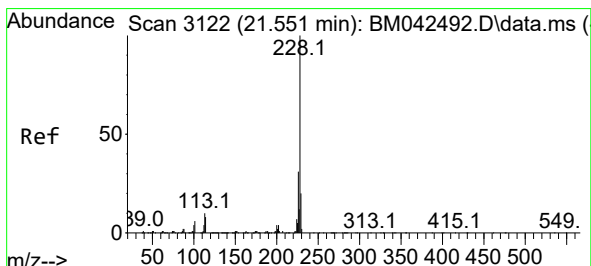
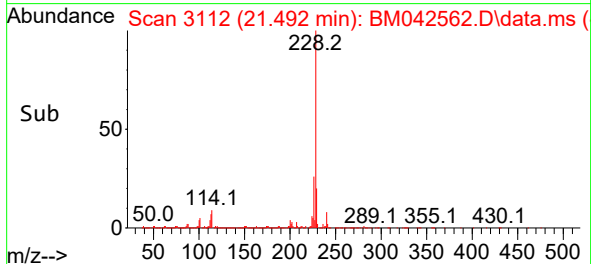
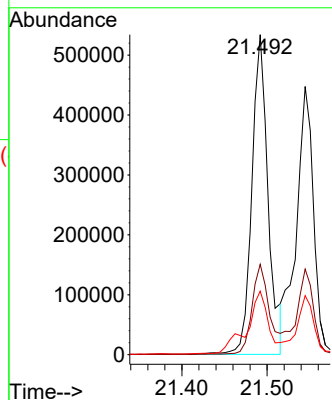
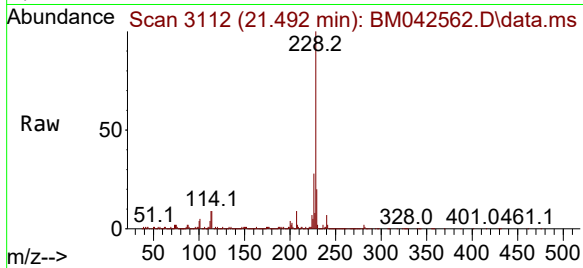




#81
Benzo(a)anthracene
Concen: 32.717 ng
RT: 21.492 min Scan# 3112
Delta R.T. 0.000 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

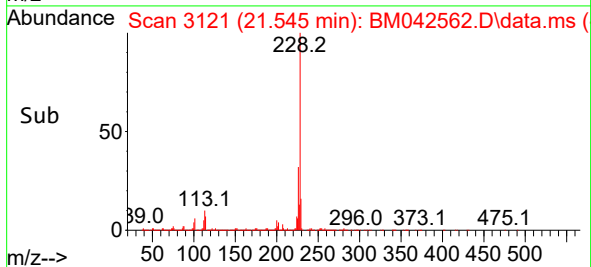
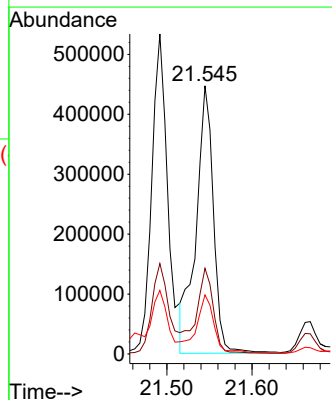
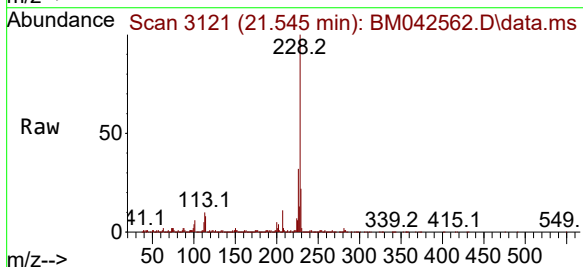
Instrument :
BNA_M
ClientSampleId :
A-7(0-2)DL

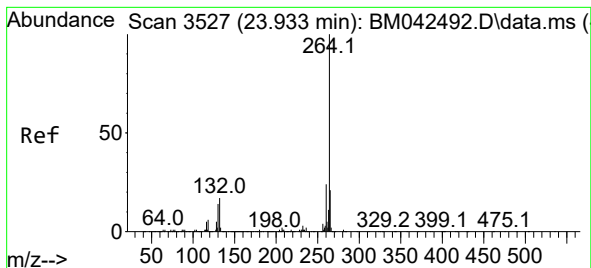
Tgt Ion:228 Resp: 703238
Ion Ratio Lower Upper
228 100
226 28.3 22.3 33.5
229 19.9 15.8 23.8



#83
Chrysene
Concen: 29.127 ng
RT: 21.545 min Scan# 3121
Delta R.T. -0.006 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

Tgt Ion:228 Resp: 635965
Ion Ratio Lower Upper
228 100
226 31.9 24.4 36.6
229 22.0 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.933 min Scan# 3

Delta R.T. 0.000 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

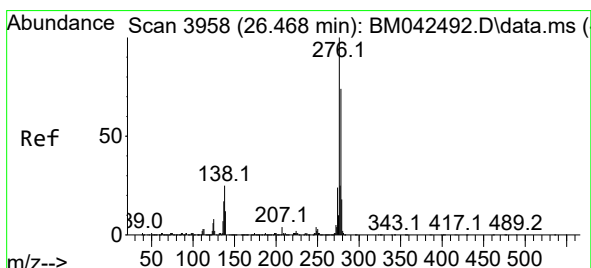
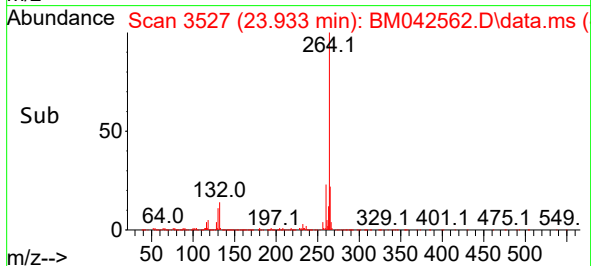
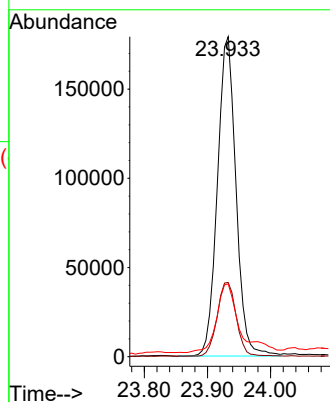
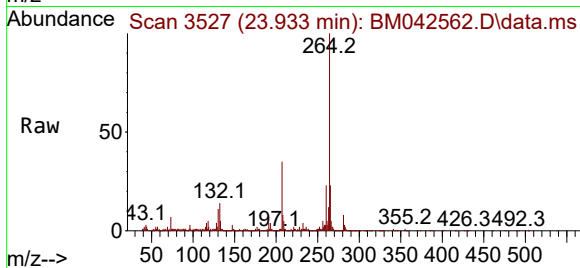
Tgt Ion:264 Resp: 366413

Ion Ratio Lower Upper

264 100

260 23.2 19.0 28.4

265 22.8 18.7 28.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 22.045 ng

RT: 26.462 min Scan# 3957

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

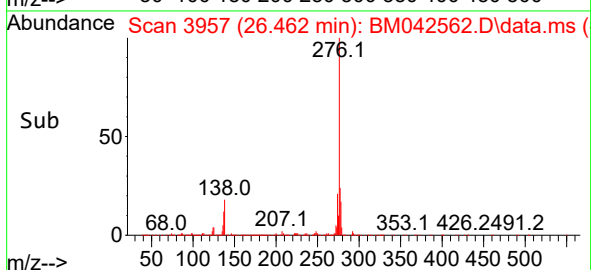
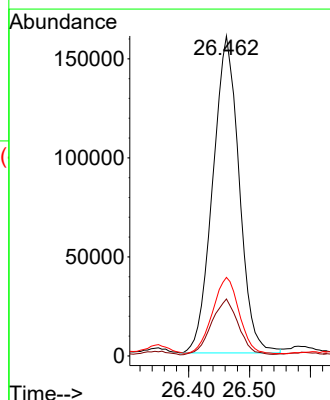
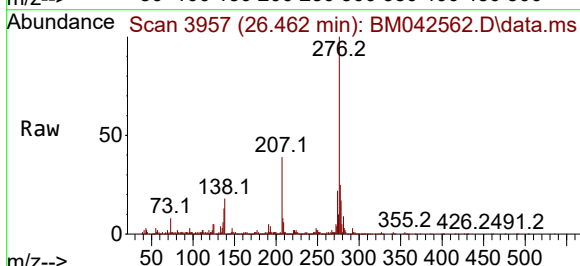
Tgt Ion:276 Resp: 480764

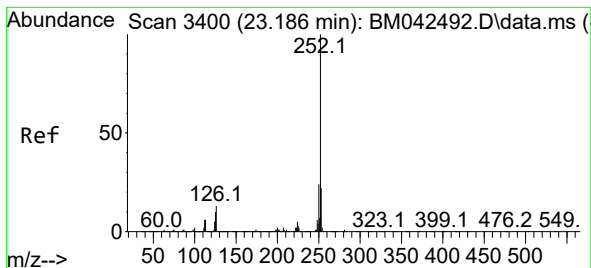
Ion Ratio Lower Upper

276 100

138 17.9 20.6 31.0#

277 24.5 19.5 29.3





#88

Benzo(b)fluoranthene

Concen: 46.467 ng

RT: 23.186 min Scan# 3400

Delta R.T. 0.000 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

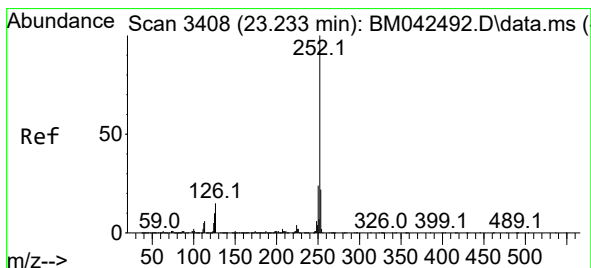
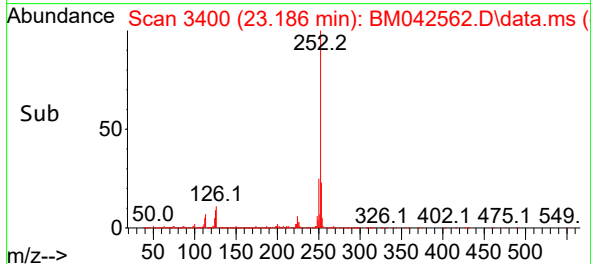
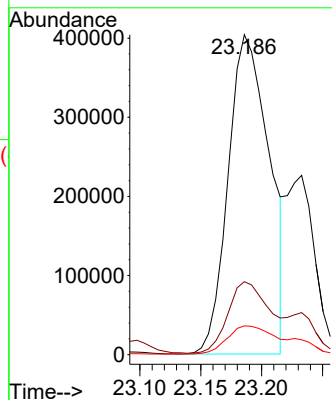
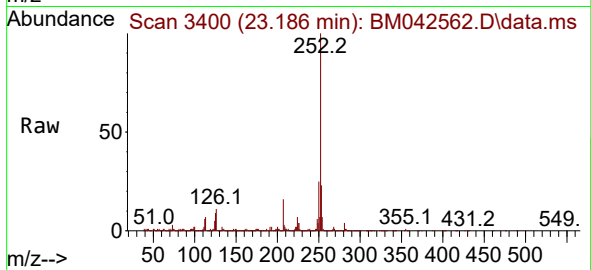
Tgt Ion:252 Resp: 948570

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 9.0 7.8 11.6



#89

Benzo(k)fluoranthene

Concen: 41.701 ng

RT: 23.186 min Scan# 3400

Delta R.T. -0.047 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

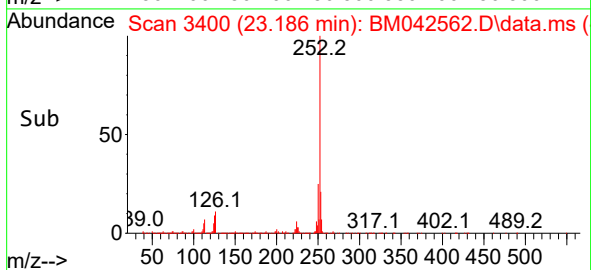
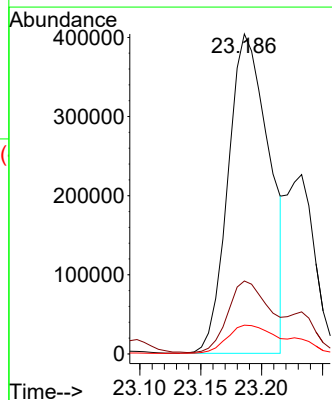
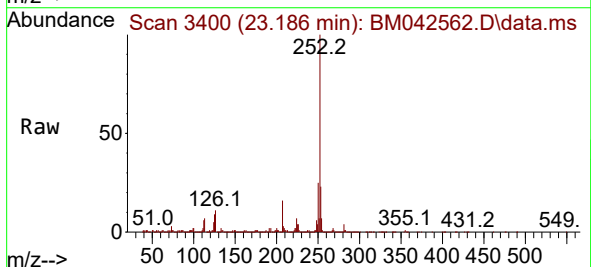
Tgt Ion:252 Resp: 948570

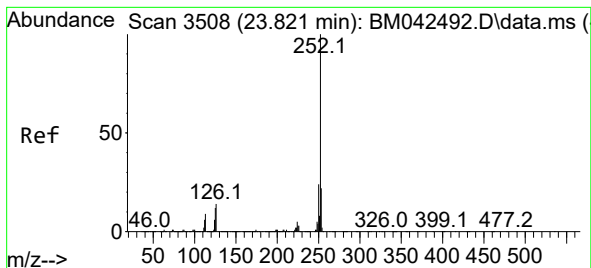
Ion Ratio Lower Upper

252 100

253 22.8 17.6 26.4

125 9.0 8.2 12.4





#90

Benzo(a)pyrene

Concen: 34.113 ng

RT: 23.821 min Scan# 3

Delta R.T. 0.000 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

Instrument :

BNA_M

ClientSampleId :

A-7(0-2)DL

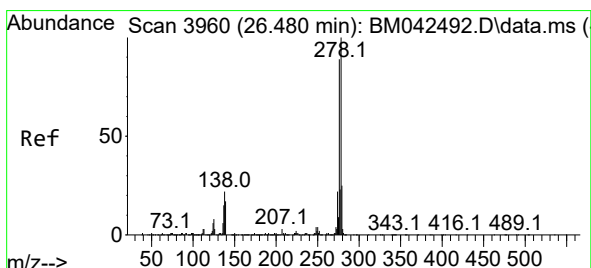
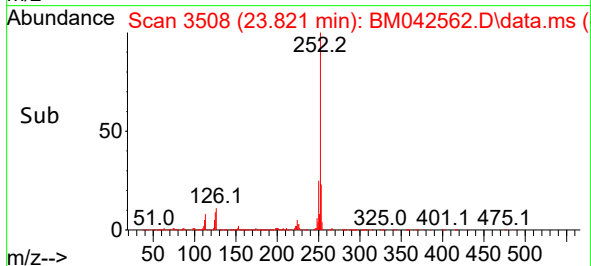
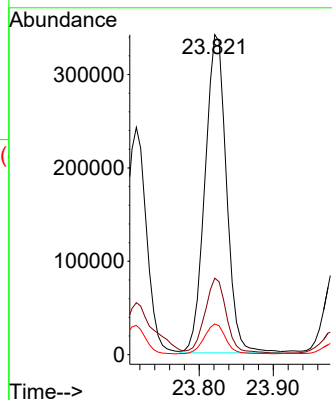
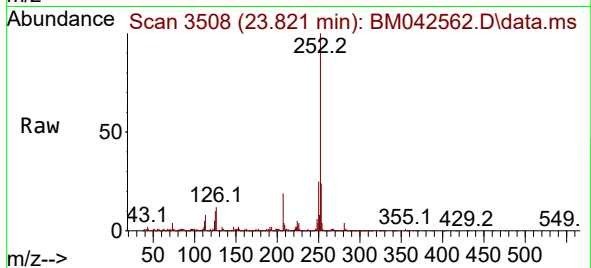
Tgt Ion:252 Resp: 685587

Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

125 9.6 9.4 14.2



#91

Dibenzo(a,h)anthracene

Concen: 9.185 ng

RT: 26.474 min Scan# 3959

Delta R.T. -0.006 min

Lab File: BM042562.D

Acq: 02 Nov 2023 15:37

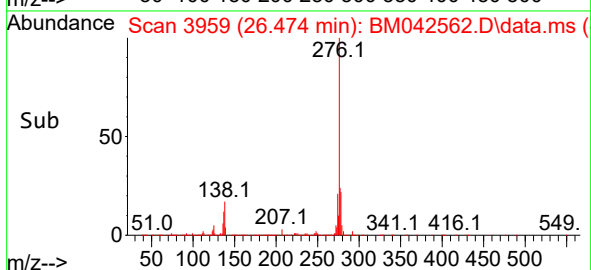
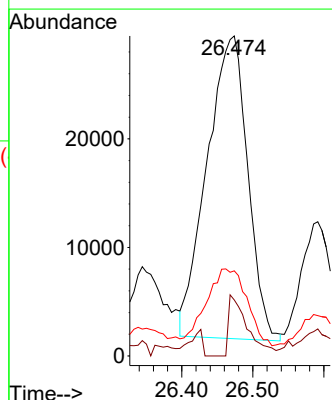
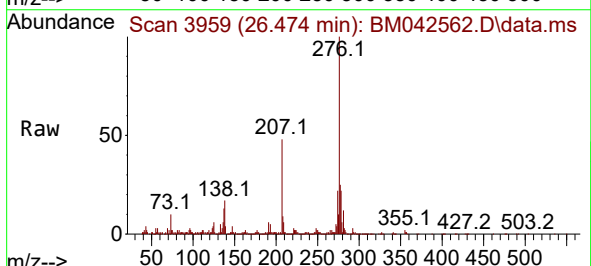
Tgt Ion:278 Resp: 111204

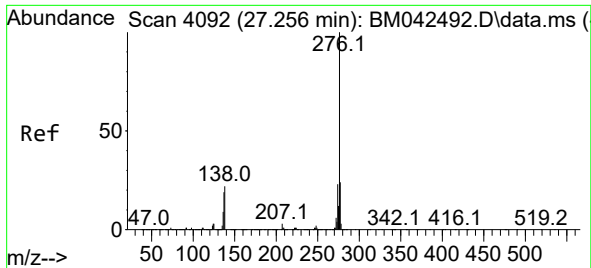
Ion Ratio Lower Upper

278 100

139 17.5 13.4 20.2

279 26.6 19.7 29.5





#92
Benzo(g,h,i)perylene
Concen: 25.174 ng
RT: 27.262 min Scan# 4093
Delta R.T. 0.006 min
Lab File: BM042562.D
Acq: 02 Nov 2023 15:37

Instrument :
BNA_M
ClientSampleId :
A-7(0-2)DL

Tgt Ion:	276	Resp:	483861
Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.2	28.8
138	18.3	17.3	25.9

