

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
 Data File : BM042583.D
 Acq On : 03 Nov 2023 22:48
 Operator : MA/JU
 Sample : 05220-04DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 Z-7(0-5)DL

Quant Time: Nov 03 23:27:11 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 03 15:52:20 2023
 Response via : Initial Calibration

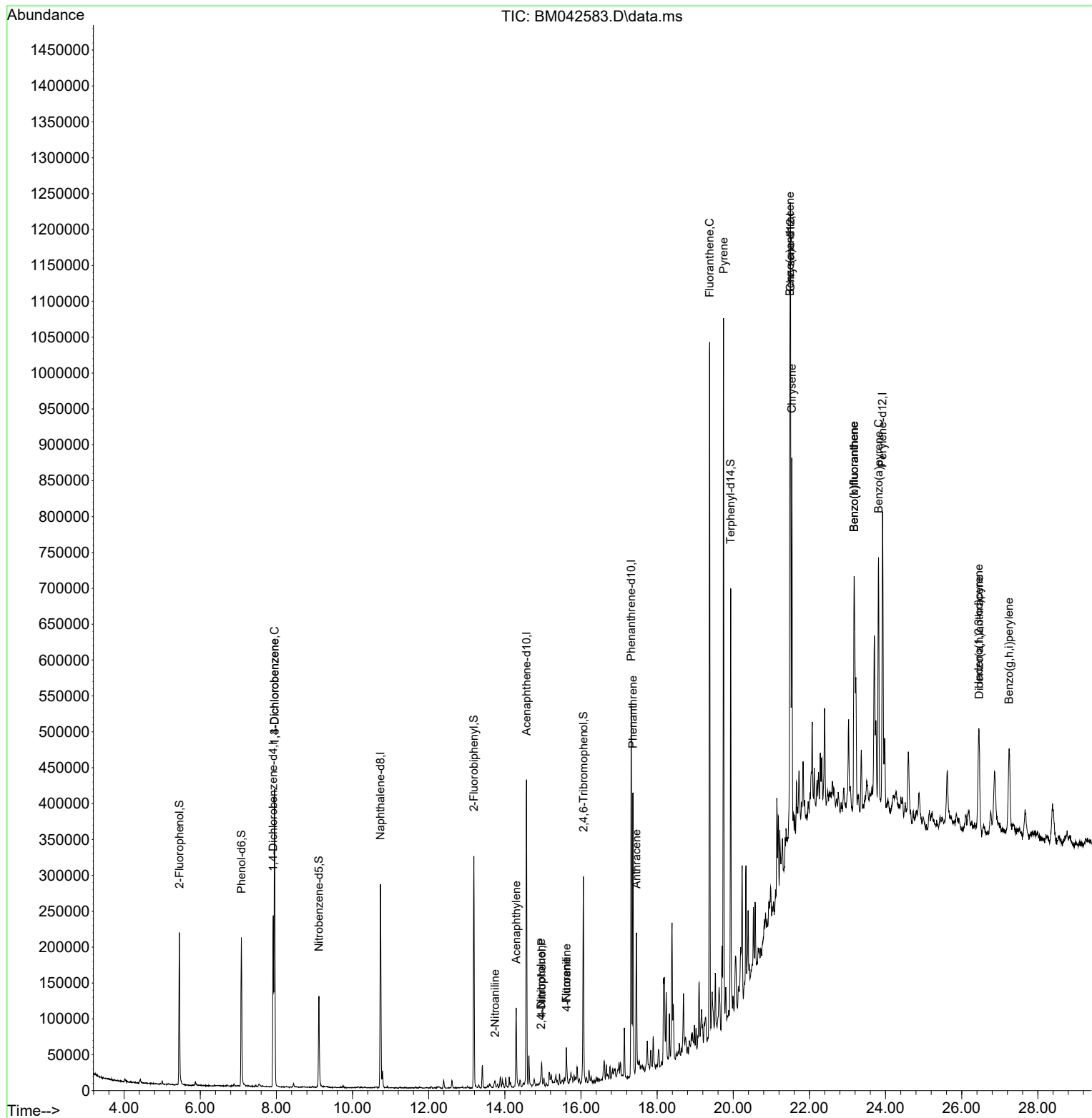
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.916	152	55378	20.000	ng	0.00
21) Naphthalene-d8	10.733	136	203179	20.000	ng	0.00
39) Acenaphthene-d10	14.569	164	126211	20.000	ng	0.00
64) Phenanthrene-d10	17.321	188	277249	20.000	ng	# 0.00
76) Chrysene-d12	21.503	240	288797	20.000	ng	0.00
86) Perylene-d12	23.921	264	318973	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	80827	23.555	ng	0.01
7) Phenol-d6	7.081	99	102180	21.713	ng	0.00
23) Nitrobenzene-d5	9.116	82	70823	16.249	ng	0.00
42) 2,4,6-Tribromophenol	16.063	330	41996	25.486	ng	0.00
45) 2-Fluorobiphenyl	13.186	172	146719	15.642	ng	0.00
79) Terphenyl-d14	19.933	244	244732	14.369	ng	0.00
Target Compounds						
						Qvalue
12) 1,3-Dichlorobenzene	7.951	146	139999	35.011	ng	96
13) 1,4-Dichlorobenzene	7.951	146	139999	34.594	ng	98
48) 2-Nitroaniline	13.745	65	53	4.367	ng	# 13
49) Acenaphthylene	14.298	152	74364	6.344	ng	99
56) 4-Nitrophenol	14.969	139	6968	10.555	ng	# 2
57) 2,4-Dinitrotoluene	14.951	165	274	4.057	ng	# 20
58) Fluorene	15.616	166	21899	2.340	ng	# 94
62) 4-Nitroaniline	15.621	138	123	5.795	ng	# 12
71) Phenanthrene	17.362	178	203726	14.061	ng	99
72) Anthracene	17.457	178	120335	8.385	ng	100
75) Fluoranthene	19.380	202	548908	32.252	ng	99
78) Pyrene	19.745	202	547582	27.613	ng	99
81) Benzo(a)anthracene	21.486	228	306593	16.686	ng	98
83) Chrysene	21.539	228	264209	14.155	ng	96
87) Indeno(1,2,3-cd)pyrene	26.450	276	148342	7.814	ng	# 93
88) Benzo(b)fluoranthene	23.174	252	318119	17.901	ng	97
89) Benzo(k)fluoranthene	23.174	252	318119	16.065	ng	97
90) Benzo(a)pyrene	23.815	252	252211	14.416	ng	96
91) Dibenzo(a,h)anthracene	26.462	278	41393	6.296	ng	# 86
92) Benzo(g,h,i)perylene	27.244	276	152681	9.125	ng	97

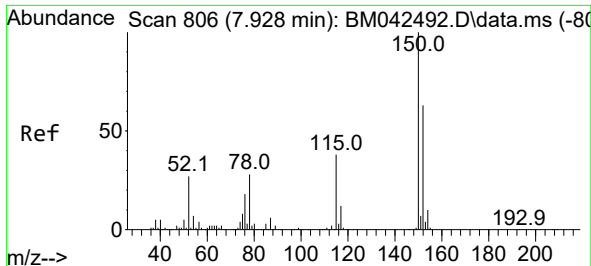
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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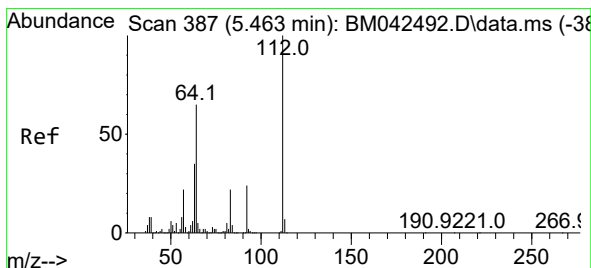
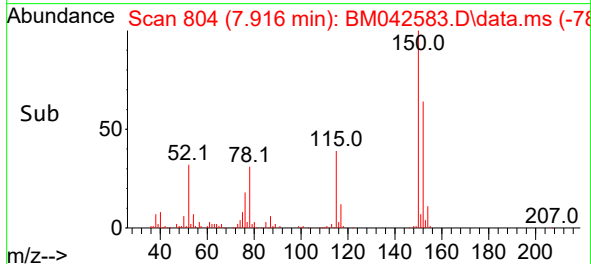
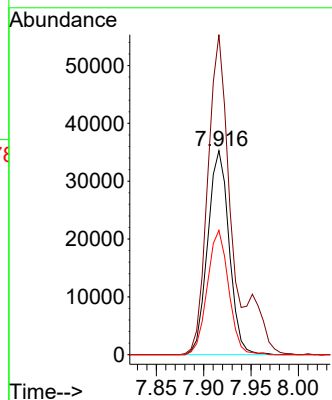
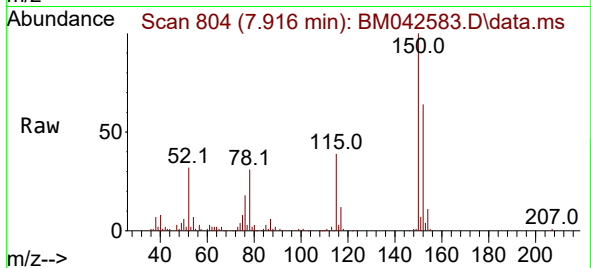




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.916 min Scan# 806
Delta R.T. 0.006 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

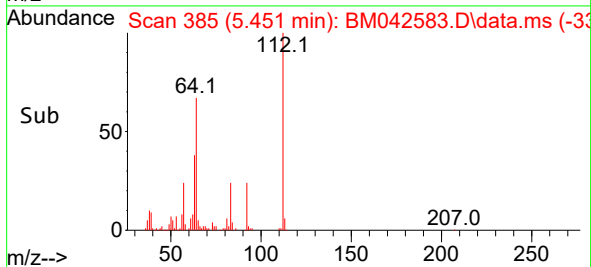
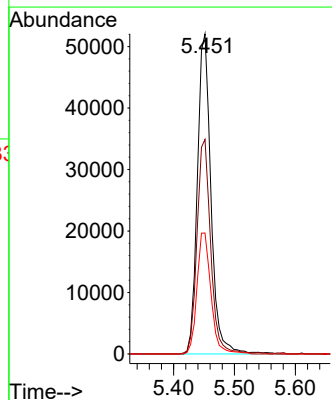
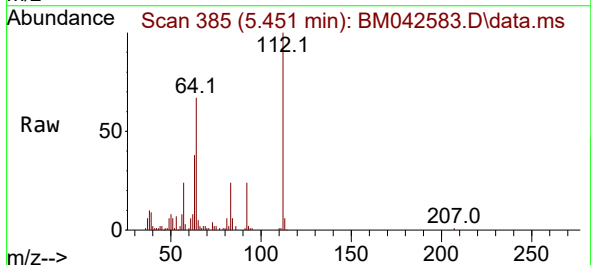
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

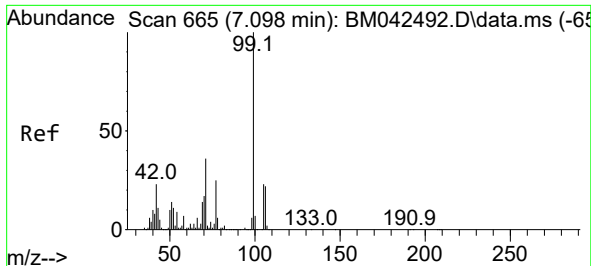
Tgt Ion:152 Resp: 55378
Ion Ratio Lower Upper
152 100
150 156.9 127.4 191.0
115 61.0 47.9 71.9



#5
2-Fluorophenol
Concen: 23.555 ng
RT: 5.451 min Scan# 385
Delta R.T. 0.011 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

Tgt Ion:112 Resp: 80827
Ion Ratio Lower Upper
112 100
64 67.1 52.1 78.1
63 37.8 28.3 42.5

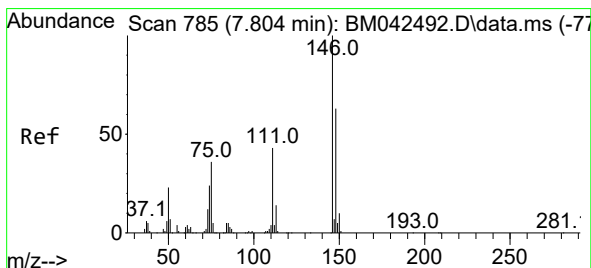
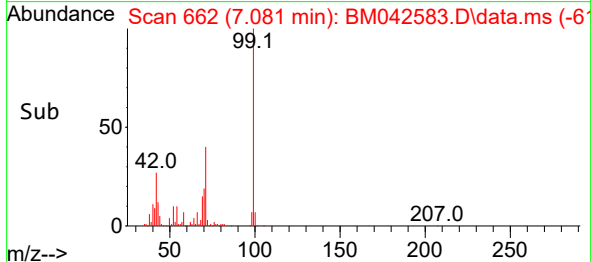
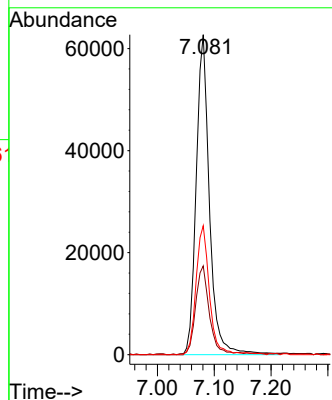
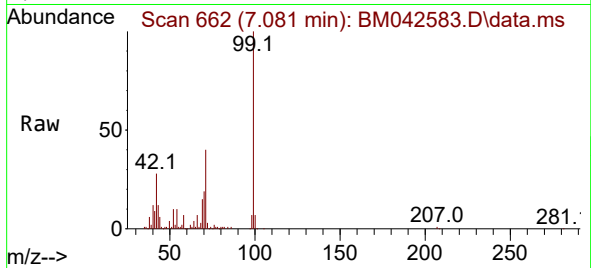




#7
Phenol-d6
Concen: 21.713 ng
RT: 7.081 min Scan# 60
Delta R.T. 0.006 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

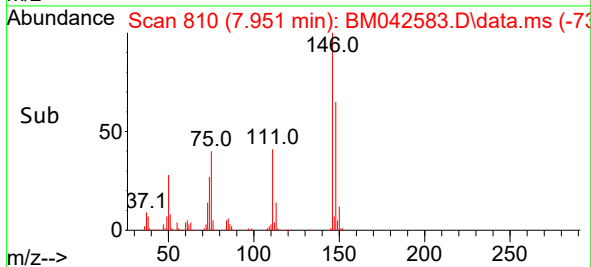
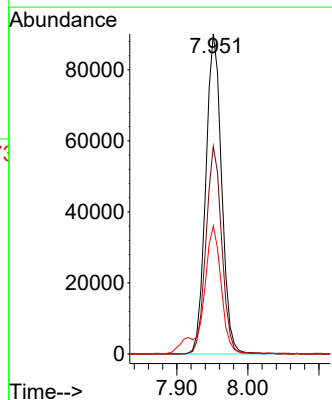
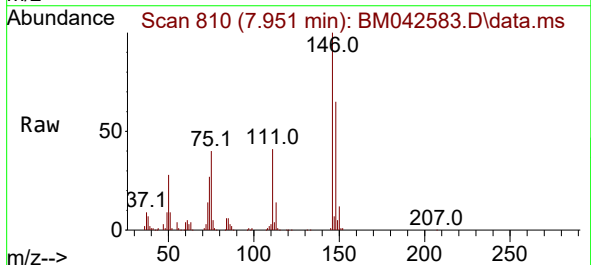
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

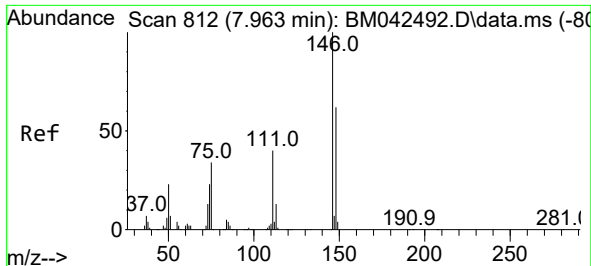
Tgt Ion: 99 Resp: 102180
Ion Ratio Lower Upper
99 100
42 27.7 18.7 28.1
71 40.3 29.1 43.7



#12
1,3-Dichlorobenzene
Concen: 35.011 ng
RT: 7.951 min Scan# 810
Delta R.T. 0.164 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

Tgt Ion: 146 Resp: 139999
Ion Ratio Lower Upper
146 100
148 64.9 50.4 75.6
75 40.1 28.9 43.3





#13

1,4-Dichlorobenzene

Concen: 34.594 ng

RT: 7.951 min Scan# 81

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

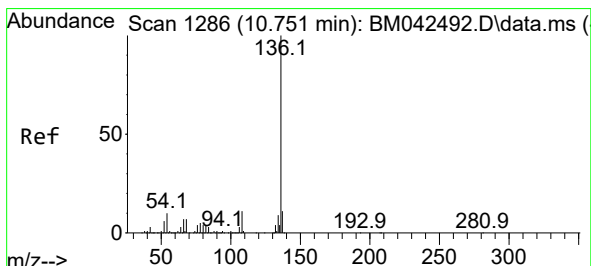
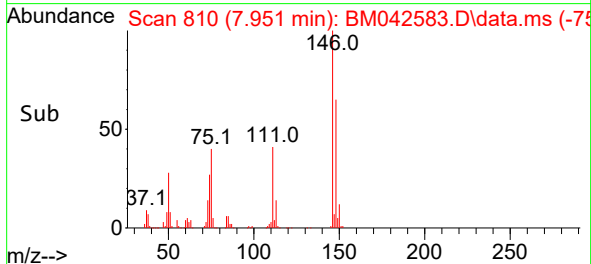
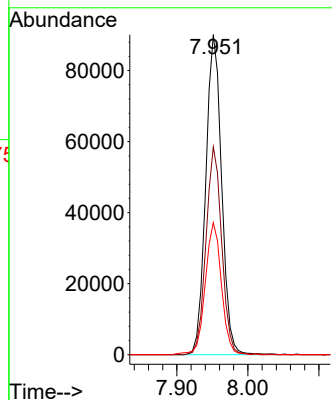
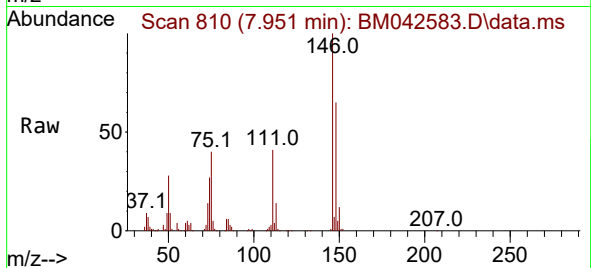
Tgt Ion:146 Resp: 139999

Ion Ratio Lower Upper

146 100

148 64.9 50.0 75.0

111 41.2 32.5 48.7



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.733 min Scan# 1283

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Tgt Ion:136 Resp: 203179

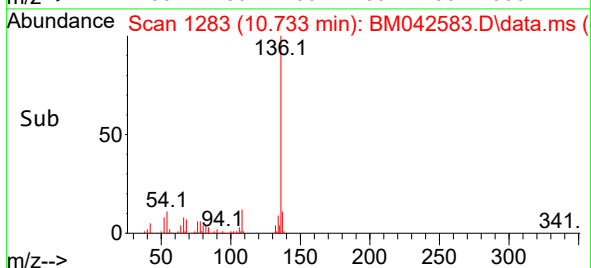
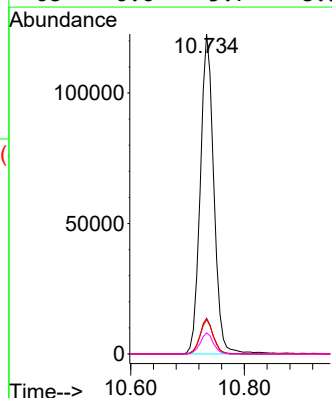
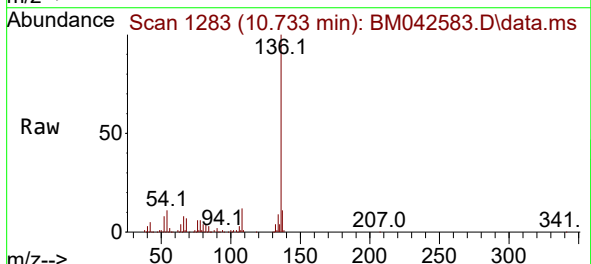
Ion Ratio Lower Upper

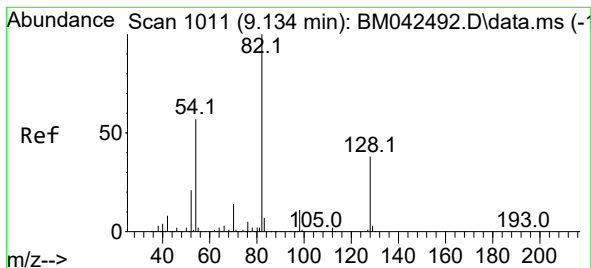
136 100

137 11.2 9.0 13.6

54 10.8 8.0 12.0

68 6.6 5.7 8.5





#23

Nitrobenzene-d5

Concen: 16.249 ng

RT: 9.116 min Scan# 1008

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

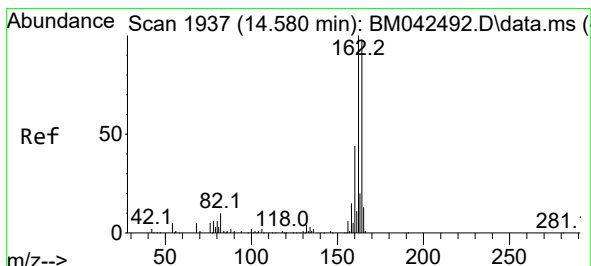
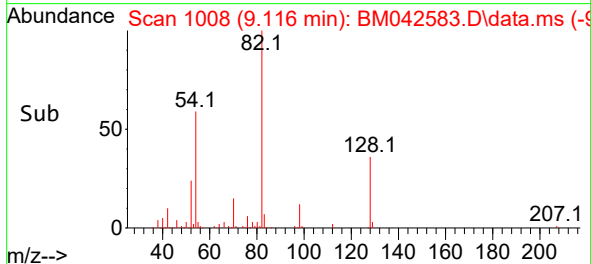
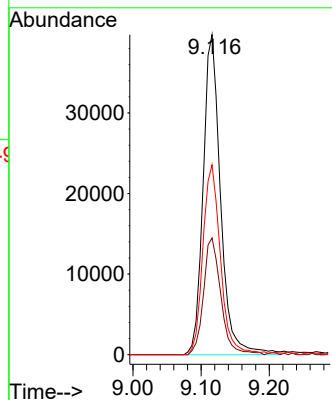
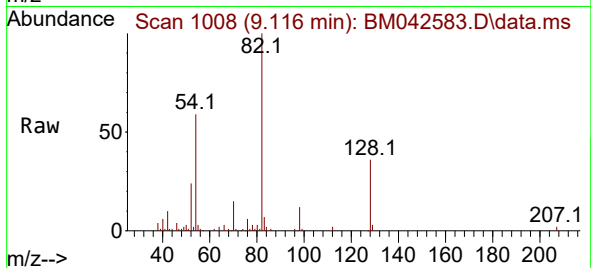
Tgt Ion: 82 Resp: 70823

Ion Ratio Lower Upper

82 100

128 36.5 30.7 46.1

54 59.3 45.3 67.9



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.569 min Scan# 1935

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

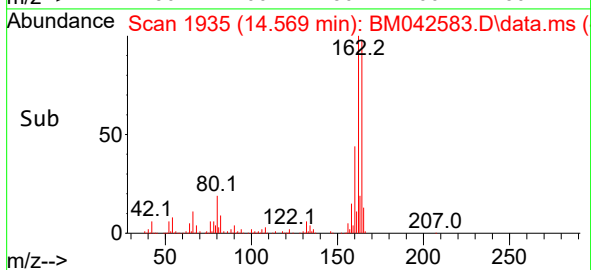
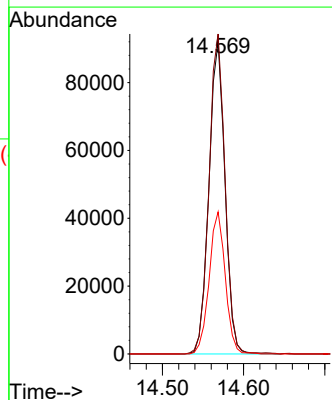
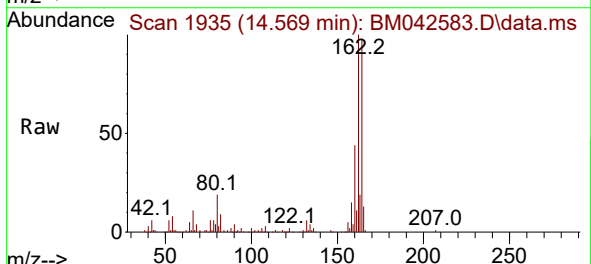
Tgt Ion: 164 Resp: 126211

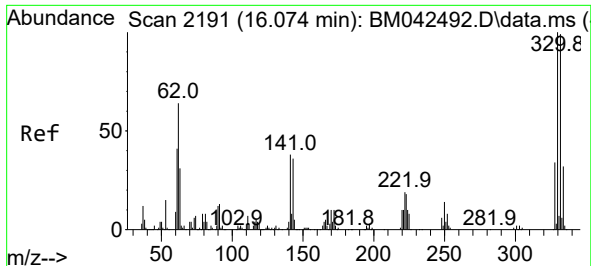
Ion Ratio Lower Upper

164 100

162 102.5 81.6 122.4

160 45.5 36.2 54.4

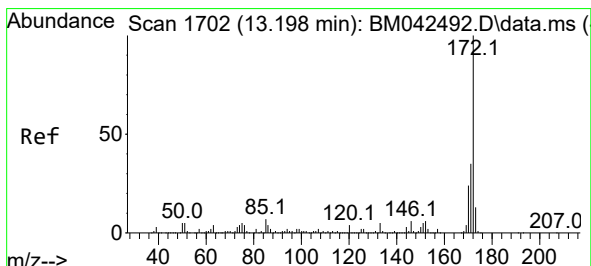
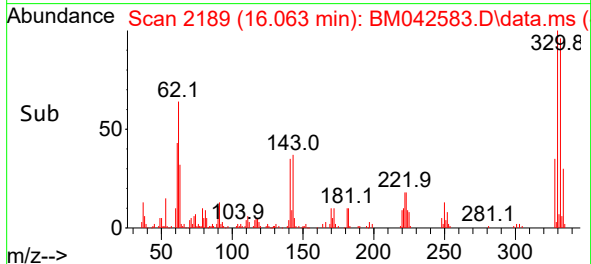
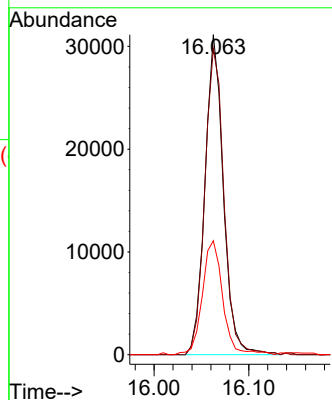
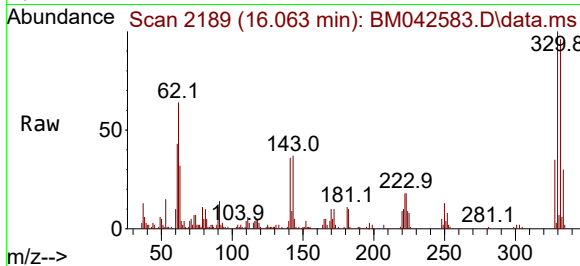




#42
2,4,6-Tribromophenol
Concen: 25.486 ng
RT: 16.063 min Scan# 2191
Delta R.T. -0.000 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

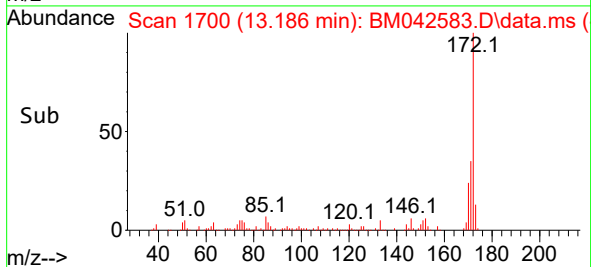
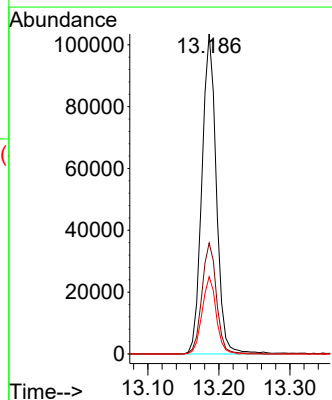
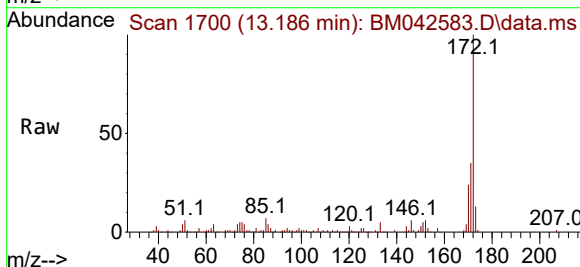
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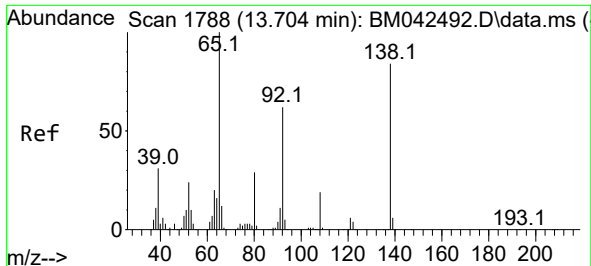
Tgt Ion:330 Resp: 41996
Ion Ratio Lower Upper
330 100
332 99.8 78.8 118.2
141 39.5 31.1 46.7



#45
2-Fluorobiphenyl
Concen: 15.642 ng
RT: 13.186 min Scan# 1700
Delta R.T. -0.000 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

Tgt Ion:172 Resp: 146719
Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.2
170 24.2 19.0 28.4

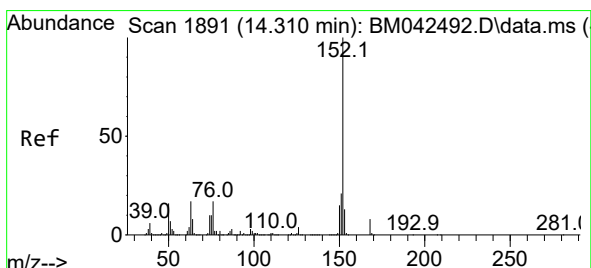
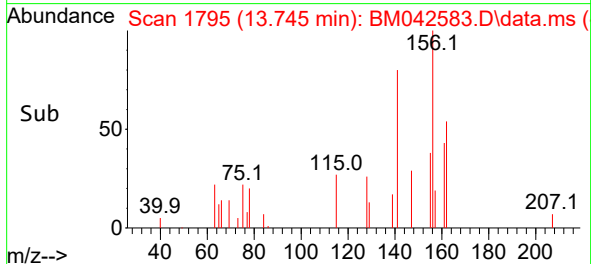
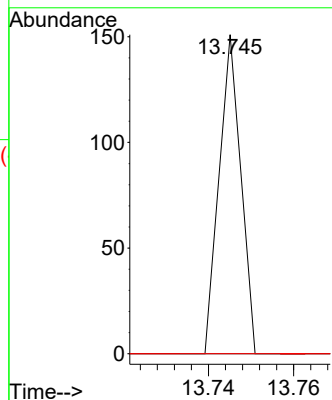
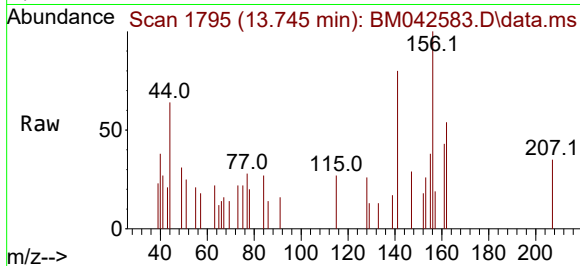




#48
2-Nitroaniline
Concen: 4.367 ng
RT: 13.745 min Scan# 11
Delta R.T. 0.053 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

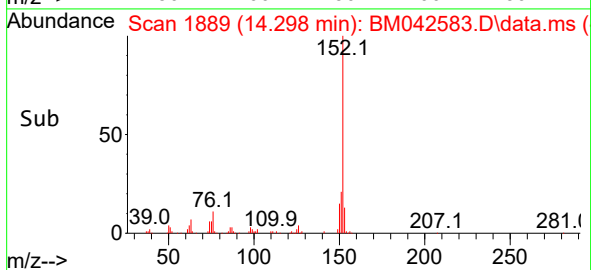
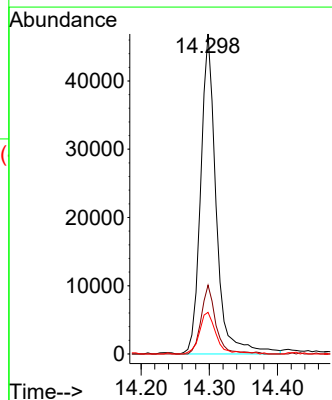
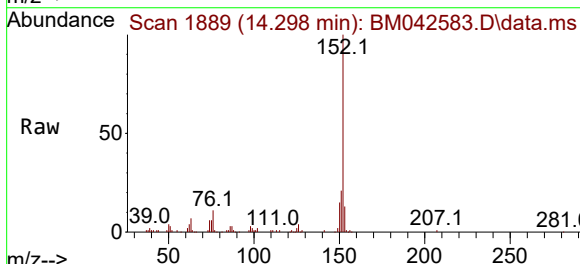
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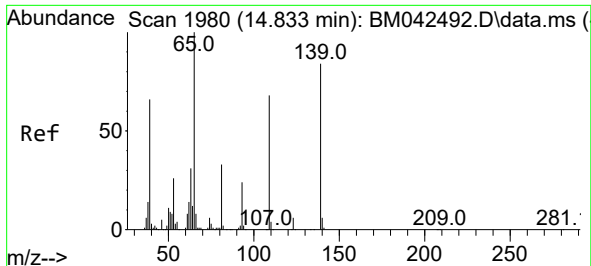
Tgt Ion: 65 Resp: 53
Ion Ratio Lower Upper
65 100
92 0.0 49.4 74.2#
138 0.0 66.9 100.3#



#49
Acenaphthylene
Concen: 6.344 ng
RT: 14.298 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

Tgt Ion: 152 Resp: 74364
Ion Ratio Lower Upper
152 100
151 21.5 16.4 24.6
153 13.0 10.4 15.6

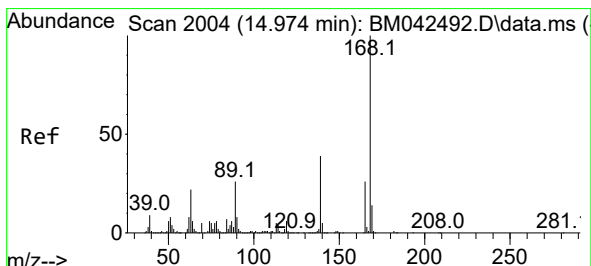
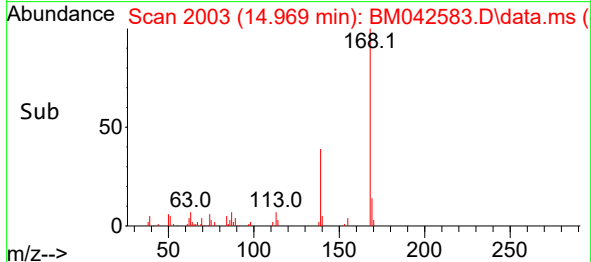
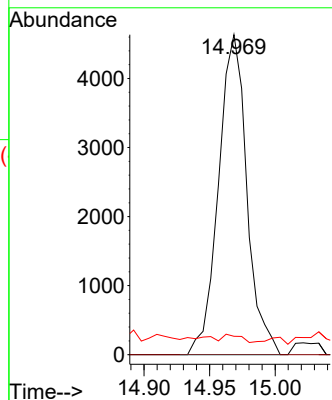
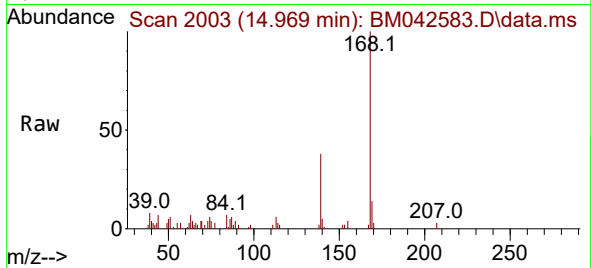




#56
4-Nitrophenol
Concen: 10.555 ng
RT: 14.969 min Scan# 2000
Delta R.T. 0.147 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

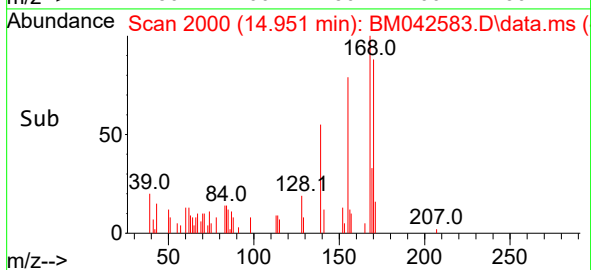
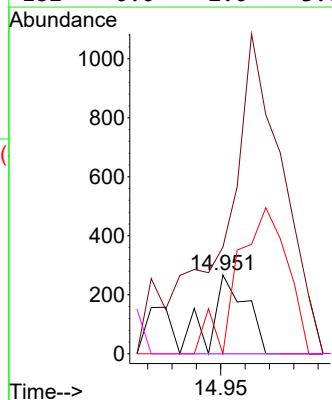
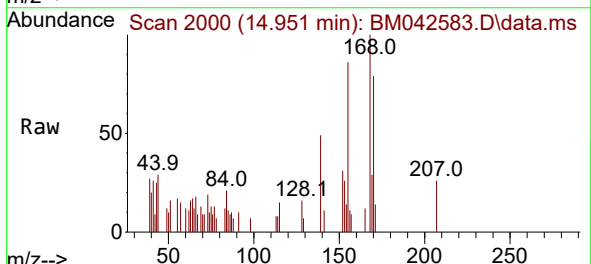
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BNA_M
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Z-7(0-5)DL

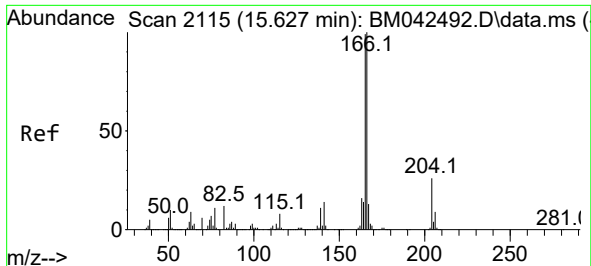
Tgt Ion:139 Resp: 6968
Ion Ratio Lower Upper
139 100
109 0.0 61.3 101.3#
65 5.8 100.2 140.2#



#57
2,4-Dinitrotoluene
Concen: 4.057 ng
RT: 14.951 min Scan# 2000
Delta R.T. -0.012 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

Tgt Ion:165 Resp: 274
Ion Ratio Lower Upper
165 100
63 135.6 66.7 100.1#
89 0.0 80.2 120.4#
182 0.0 2.0 3.0#

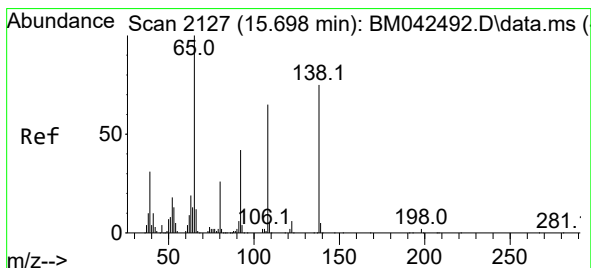
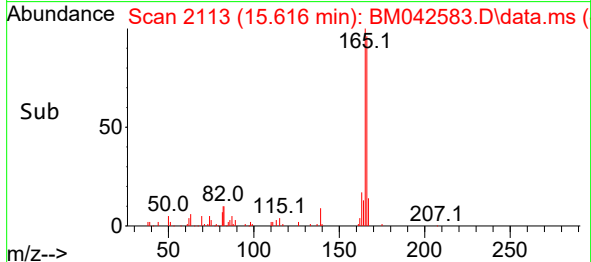
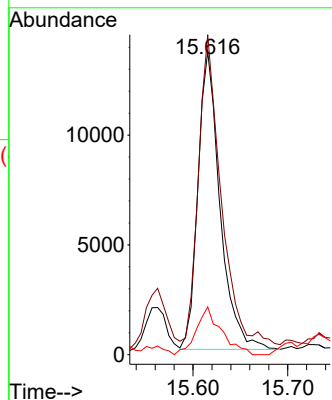
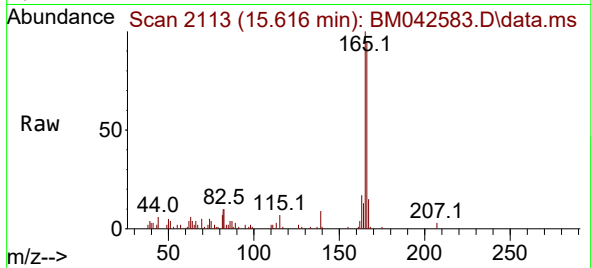




#58
Fluorene
Concen: 2.340 ng
RT: 15.616 min Scan# 2113
Delta R.T. -0.000 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

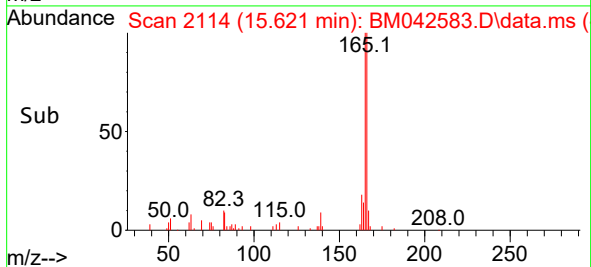
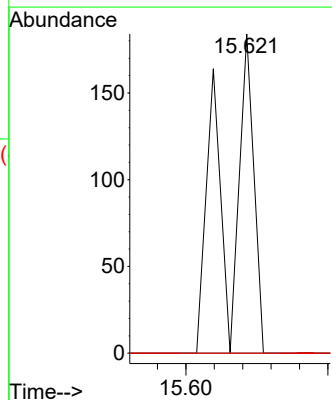
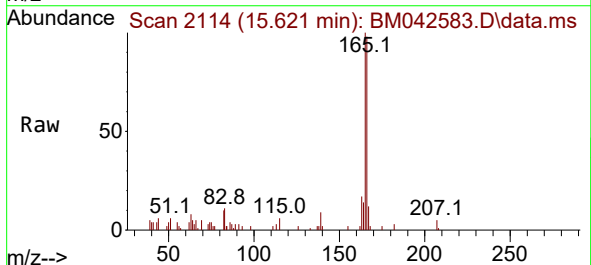
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

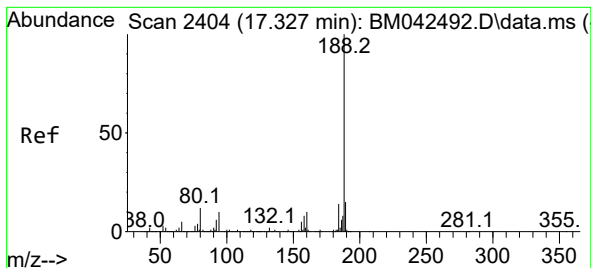
Tgt Ion:166 Resp: 21899
Ion Ratio Lower Upper
166 100
165 105.5 79.3 118.9
167 15.8 10.5 15.7#



#62
4-Nitroaniline
Concen: 5.795 ng
RT: 15.621 min Scan# 2114
Delta R.T. -0.065 min
Lab File: BM042583.D
Acq: 03 Nov 2023 22:48

Tgt Ion:138 Resp: 123
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# 24

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

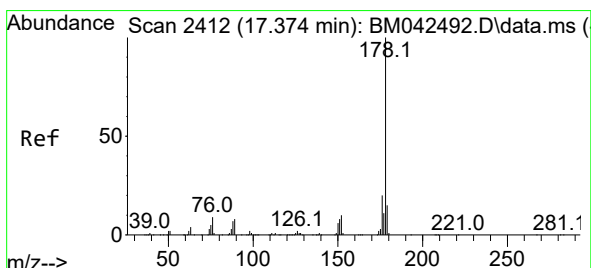
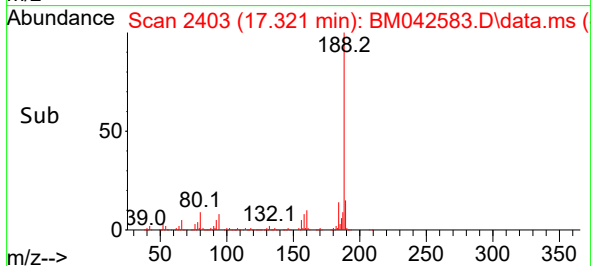
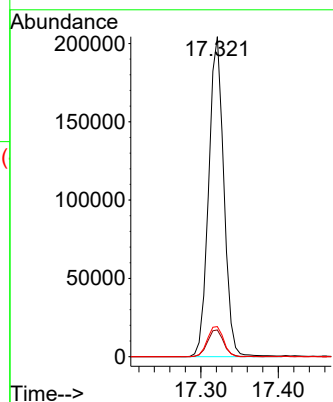
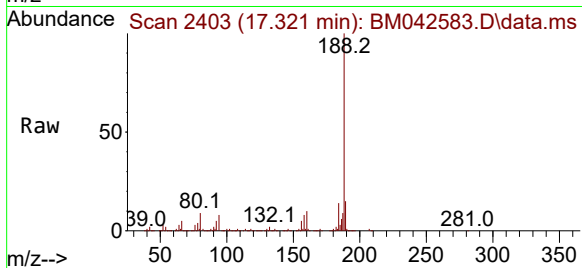
Tgt Ion:188 Resp: 277249

Ion Ratio Lower Upper

188 100

94 8.3 8.2 12.4

80 9.4 9.4 14.2#



#71

Phenanthrene

Concen: 14.061 ng

RT: 17.362 min Scan# 2410

Delta R.T. -0.000 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

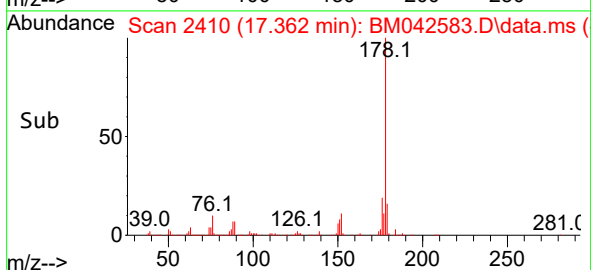
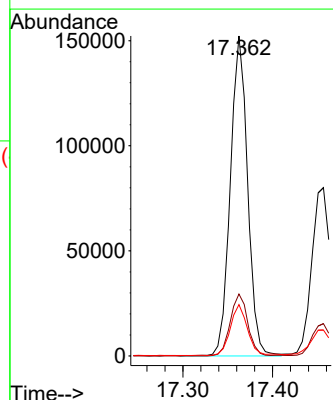
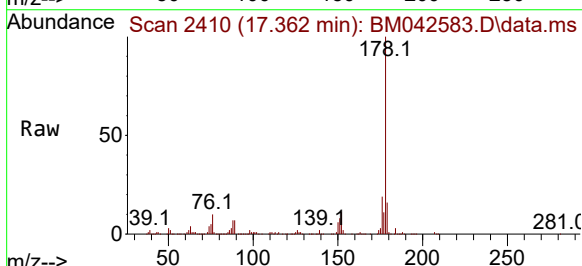
Tgt Ion:178 Resp: 203726

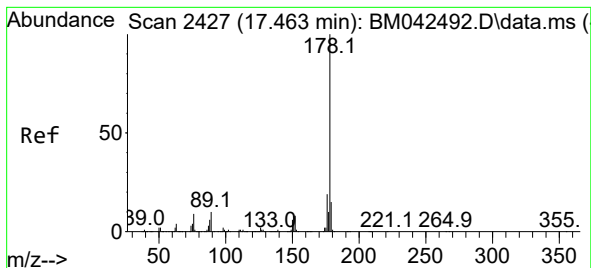
Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

179 16.1 12.2 18.4





#72

Anthracene

Concen: 8.385 ng

RT: 17.457 min Scan# 24

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

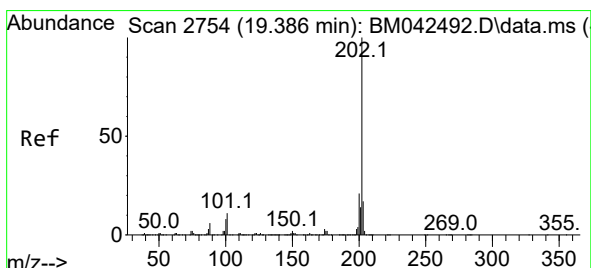
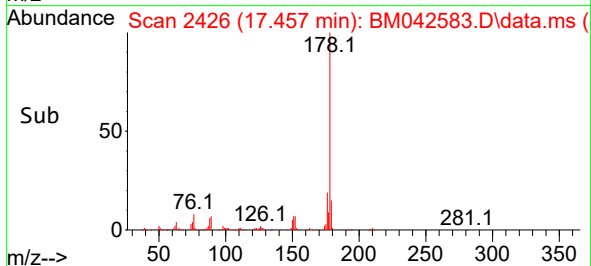
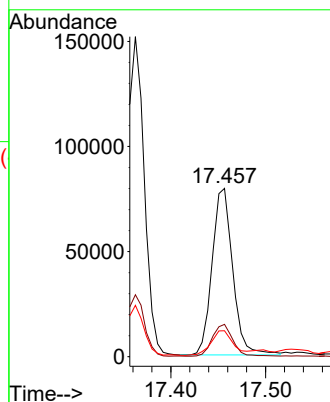
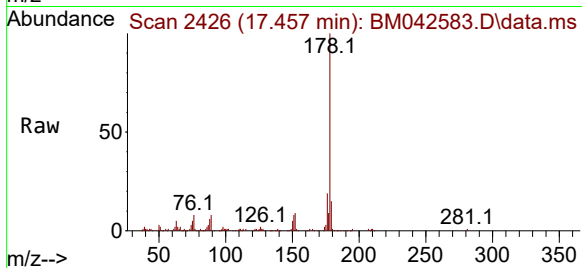
Tgt Ion:178 Resp: 120335

Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 15.4 12.3 18.5



#75

Fluoranthene

Concen: 32.252 ng

RT: 19.380 min Scan# 2753

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

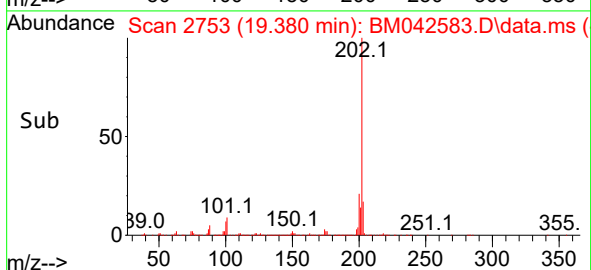
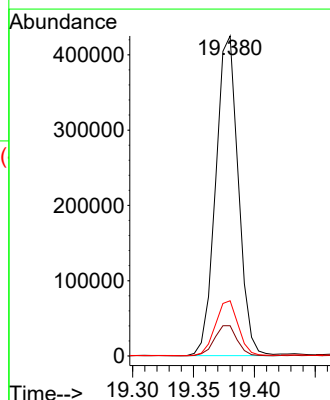
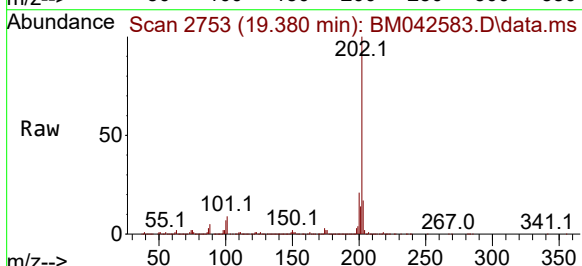
Tgt Ion:202 Resp: 548908

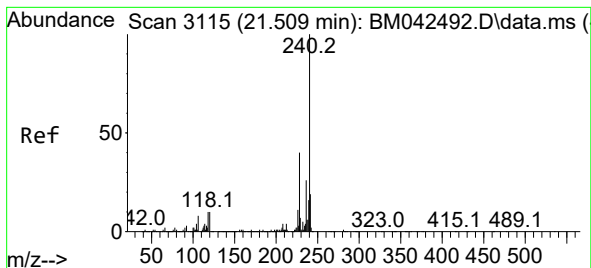
Ion Ratio Lower Upper

202 100

101 9.4 0.0 30.5

203 17.3 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.503 min Scan# 3114

Delta R.T. -0.000 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

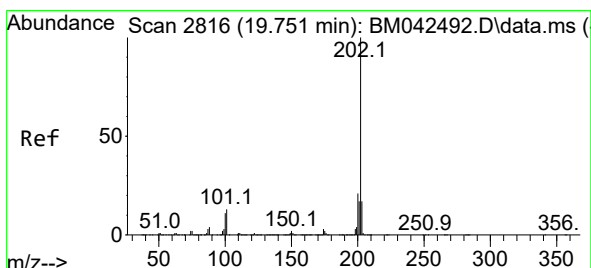
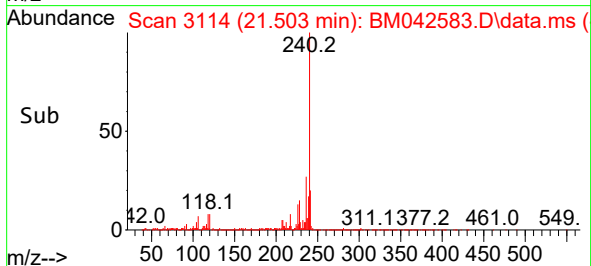
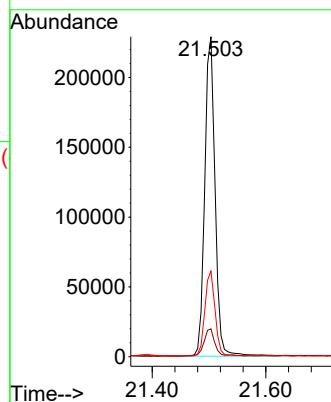
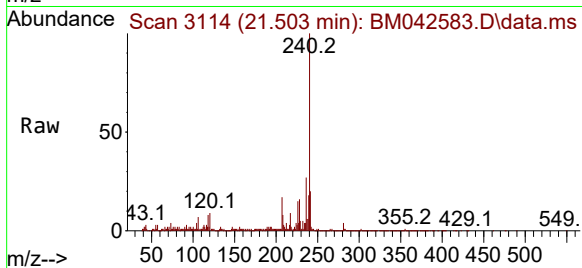
Tgt Ion:240 Resp: 288797

Ion Ratio Lower Upper

240 100

120 8.7 8.3 12.5

236 26.8 20.8 31.2



#78

Pyrene

Concen: 27.613 ng

RT: 19.745 min Scan# 2815

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

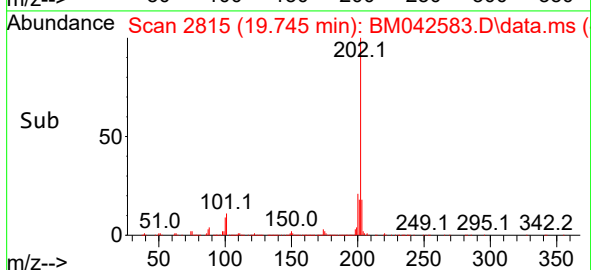
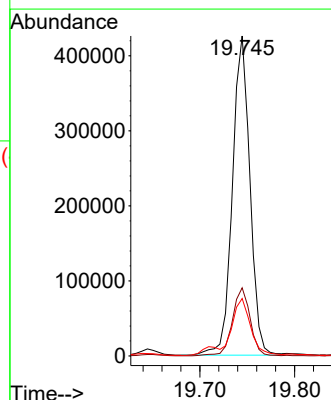
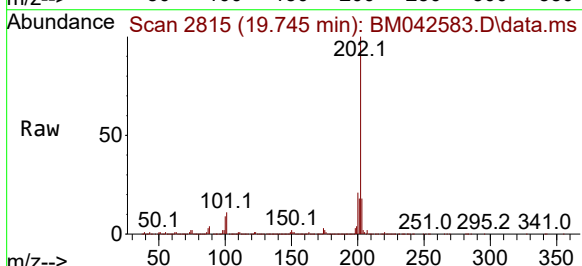
Tgt Ion:202 Resp: 547582

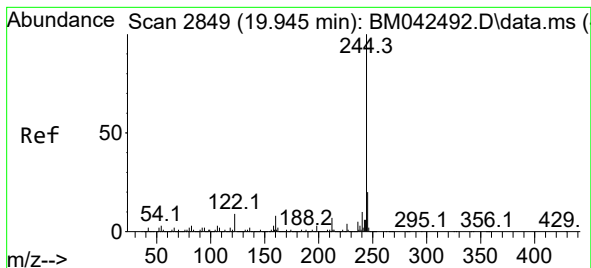
Ion Ratio Lower Upper

202 100

200 21.3 16.9 25.3

203 17.9 13.7 20.5





#79

Terphenyl-d14

Concen: 14.369 ng

RT: 19.933 min Scan# 2

Delta R.T. -0.000 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

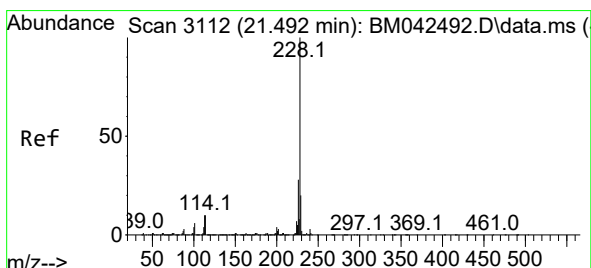
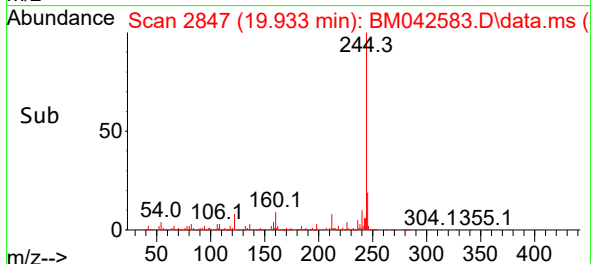
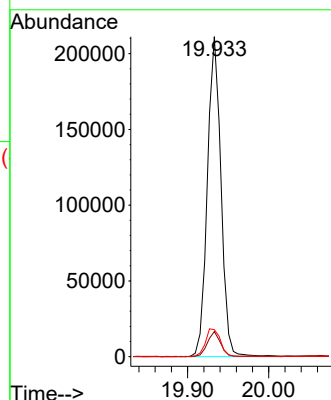
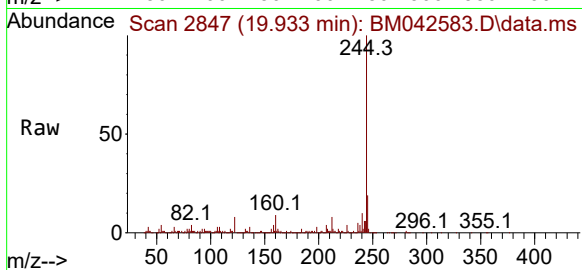
Tgt Ion:244 Resp: 244732

Ion Ratio Lower Upper

244 100

212 7.9 5.4 8.2

122 8.5 7.2 10.8



#81

Benzo(a)anthracene

Concen: 16.686 ng

RT: 21.486 min Scan# 3111

Delta R.T. -0.000 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

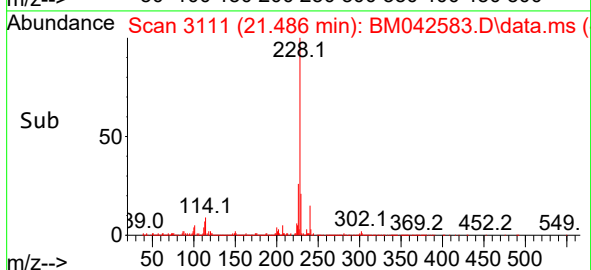
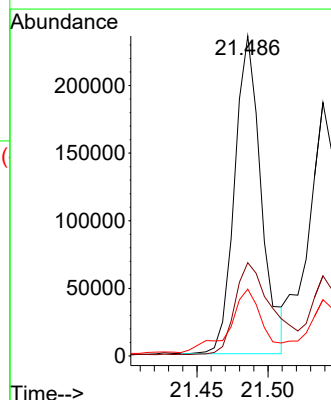
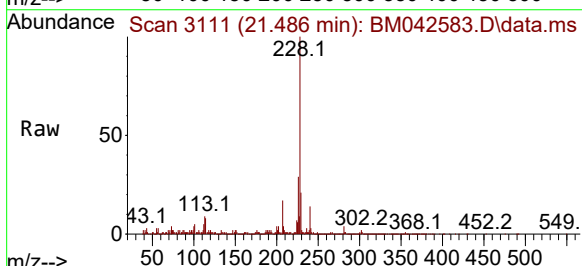
Tgt Ion:228 Resp: 306593

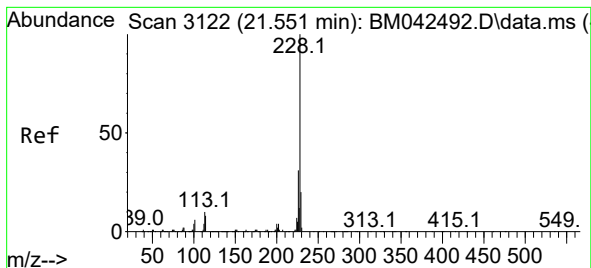
Ion Ratio Lower Upper

228 100

226 29.2 22.3 33.5

229 20.9 15.8 23.8





#83

Chrysene

Concen: 14.155 ng

RT: 21.539 min Scan# 31

Delta R.T. -0.000 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

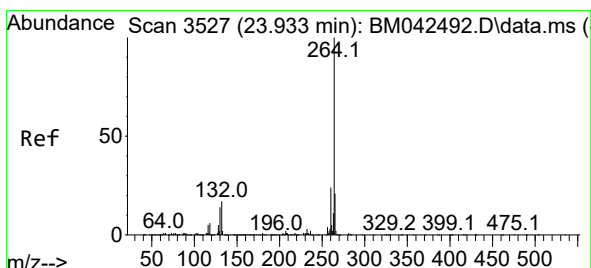
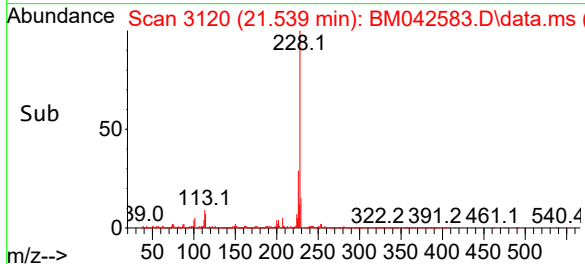
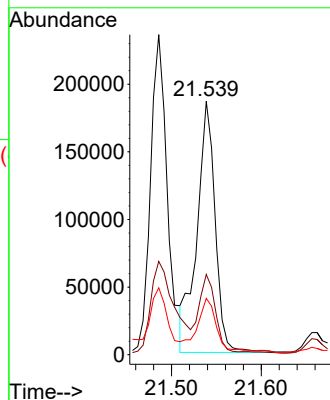
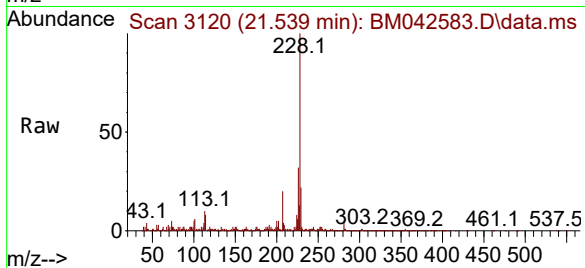
Tgt Ion:228 Resp: 264209

Ion Ratio Lower Upper

228 100

226 31.6 24.4 36.6

229 22.2 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.921 min Scan# 3525

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

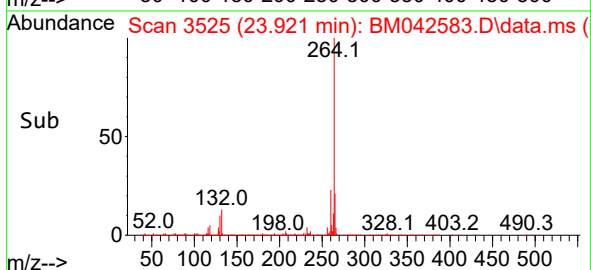
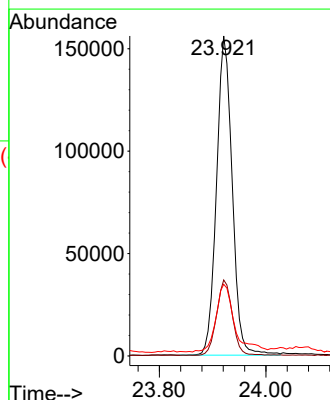
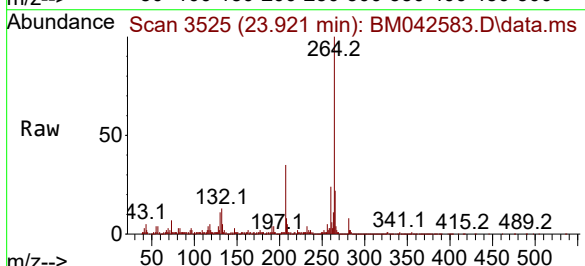
Tgt Ion:264 Resp: 318973

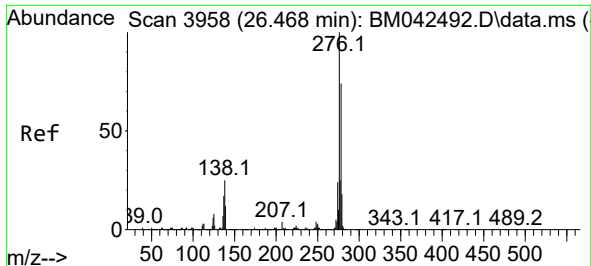
Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

265 22.4 18.7 28.1

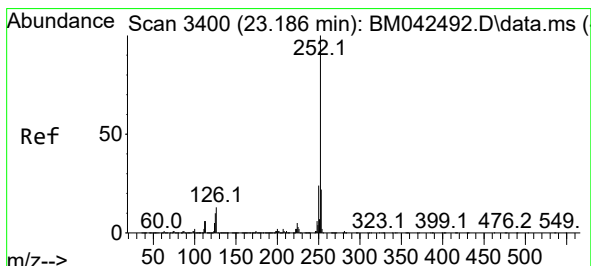
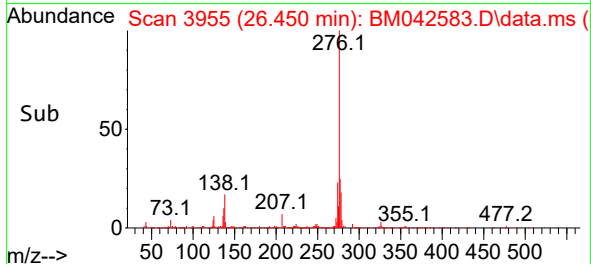
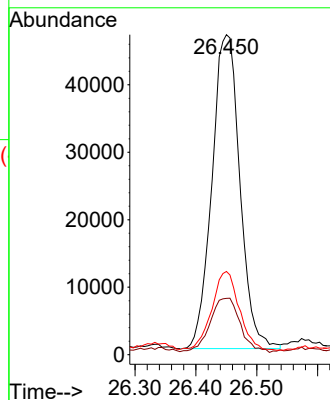
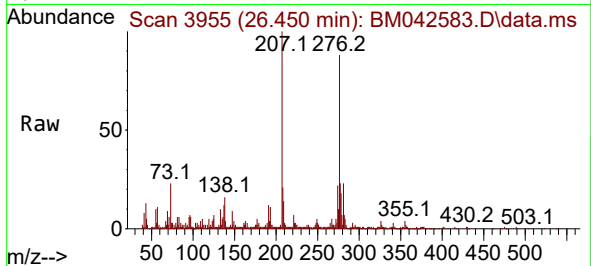




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 7.814 ng
 RT: 26.450 min Scan# 3395
 Delta R.T. -0.000 min
 Lab File: BM042583.D
 Acq: 03 Nov 2023 22:48

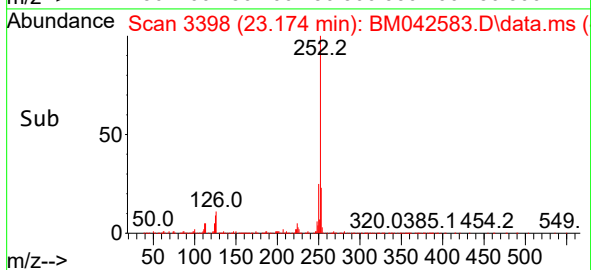
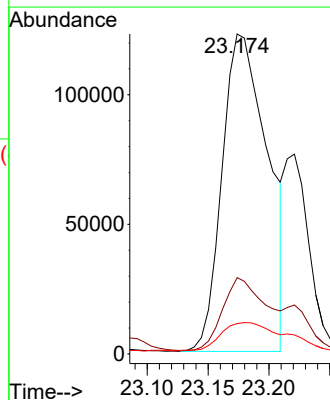
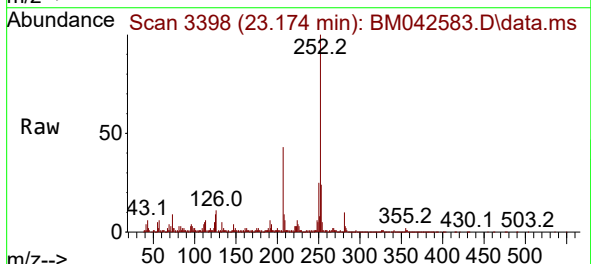
Instrument :
 BNA_M
 ClientSampleId :
 Z-7(0-5)DL

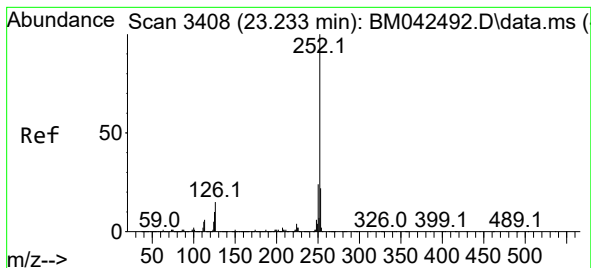
Tgt Ion:276 Resp: 148342
 Ion Ratio Lower Upper
 276 100
 138 18.7 20.6 31.0#
 277 24.6 19.5 29.3



#88
 Benzo(b)fluoranthene
 Concen: 17.901 ng
 RT: 23.174 min Scan# 3398
 Delta R.T. -0.000 min
 Lab File: BM042583.D
 Acq: 03 Nov 2023 22:48

Tgt Ion:252 Resp: 318119
 Ion Ratio Lower Upper
 252 100
 253 23.8 17.5 26.3
 125 9.5 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 16.065 ng

RT: 23.174 min Scan# 31

Delta R.T. -0.047 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

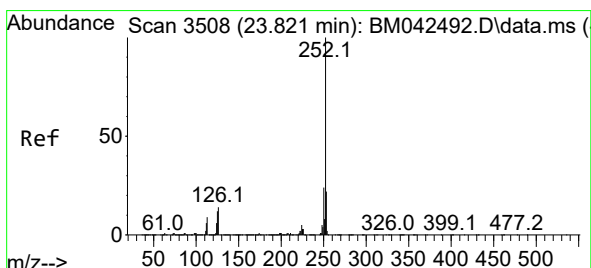
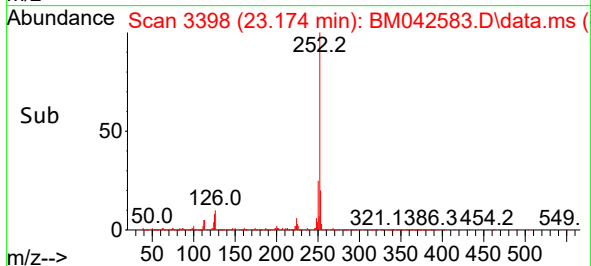
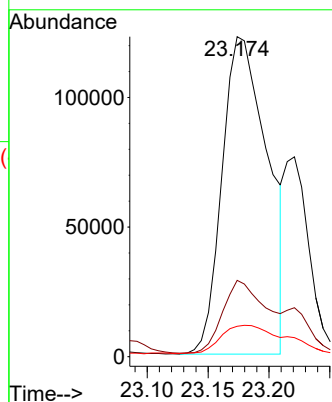
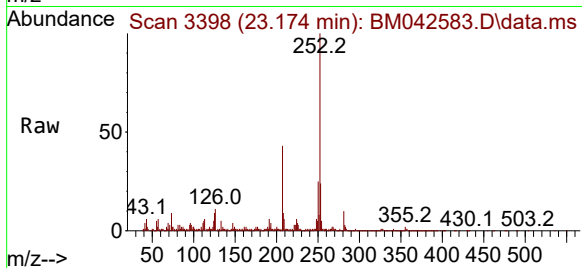
Tgt Ion:252 Resp: 318119

Ion Ratio Lower Upper

252 100

253 23.8 17.6 26.4

125 9.5 8.2 12.4



#90

Benzo(a)pyrene

Concen: 14.416 ng

RT: 23.815 min Scan# 3507

Delta R.T. 0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

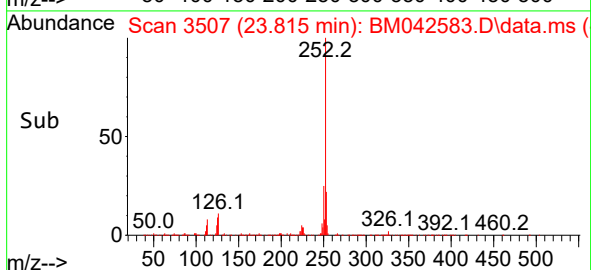
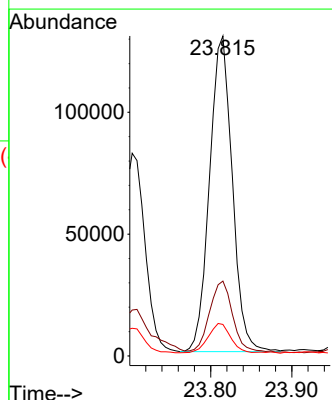
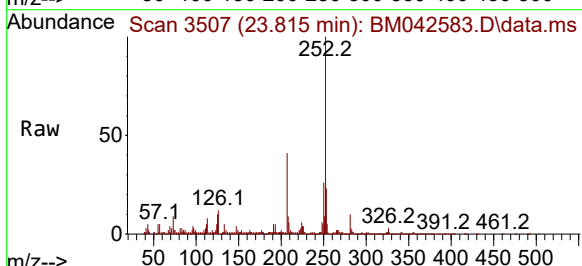
Tgt Ion:252 Resp: 252211

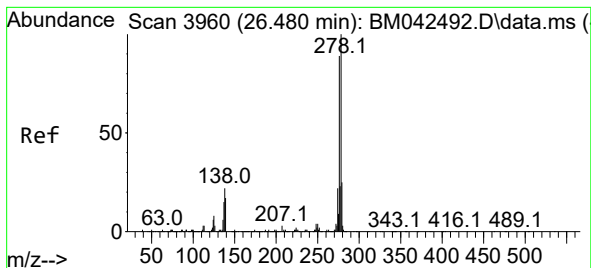
Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

125 9.9 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 6.296 ng

RT: 26.462 min Scan# 3957

Delta R.T. -0.006 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

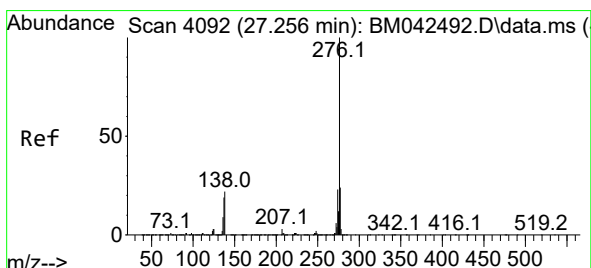
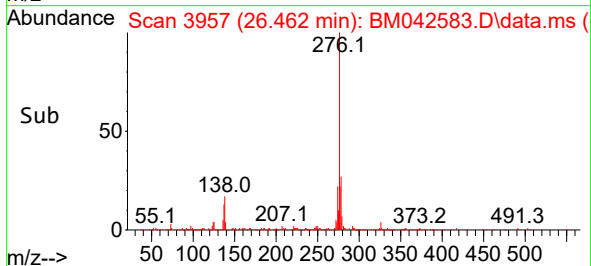
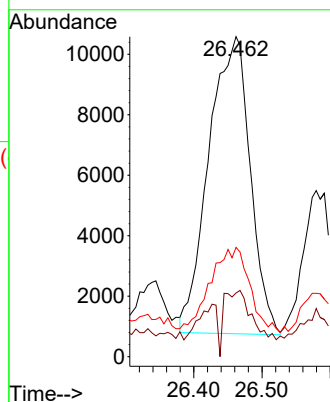
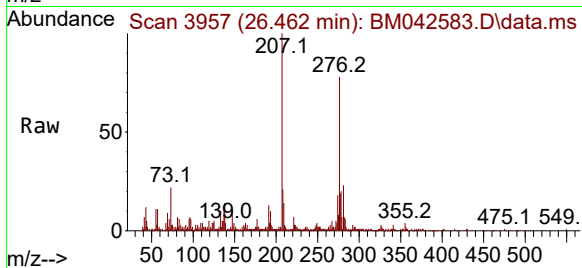
Tgt Ion:278 Resp: 41393

Ion Ratio Lower Upper

278 100

139 19.9 13.4 20.2

279 34.1 19.7 29.5#



#92

Benzo(g,h,i)perylene

Concen: 9.125 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.000 min

Lab File: BM042583.D

Acq: 03 Nov 2023 22:48

Tgt Ion:276 Resp: 152681

Ion Ratio Lower Upper

276 100

277 24.0 19.2 28.8

138 18.2 17.3 25.9

