

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042517.D
 Acq On : 31 Oct 2023 18:57
 Operator : MA/JU
 Sample : 04938-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-1(0-2)

Quant Time: Nov 01 01:48:41 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)

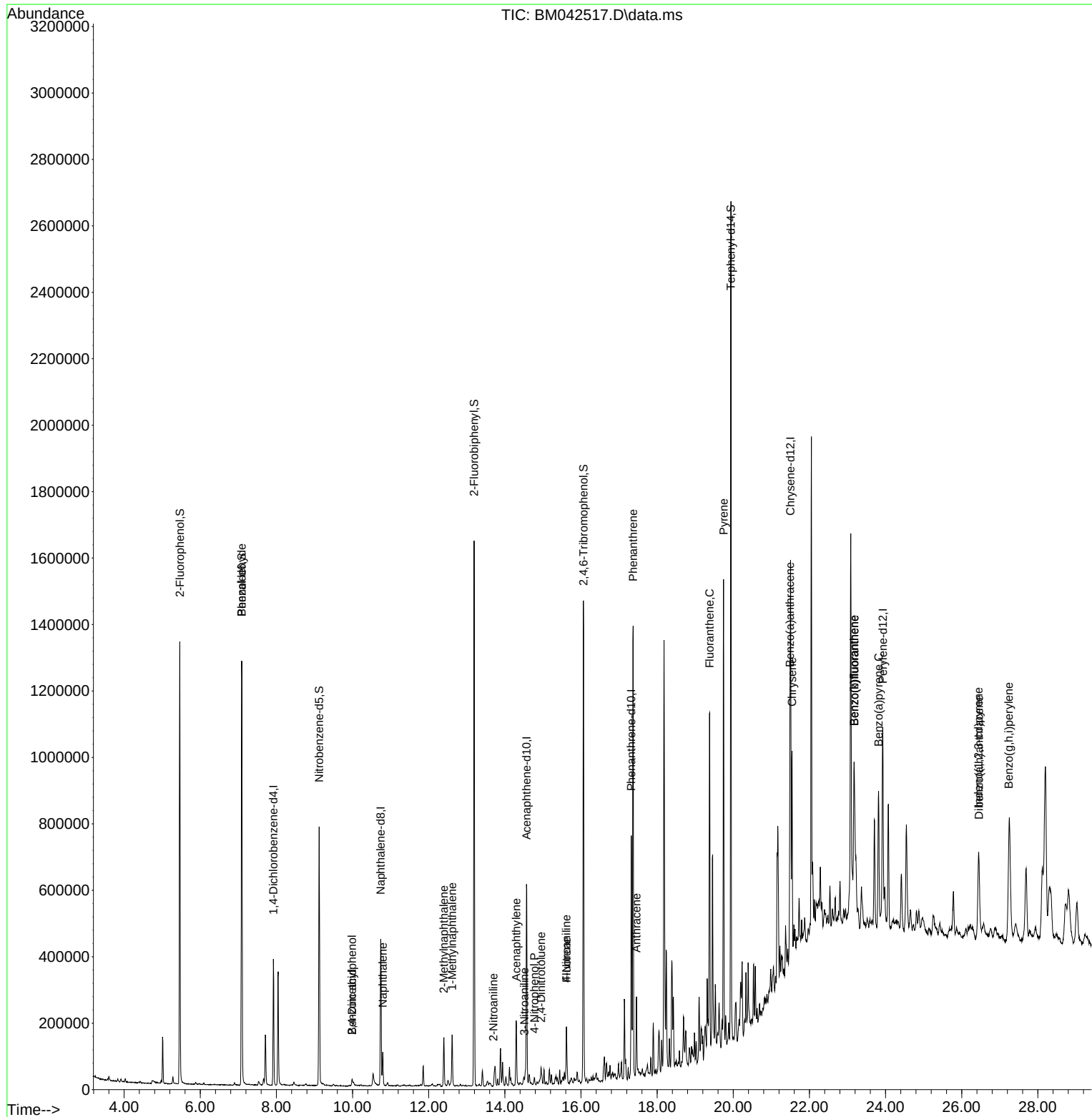
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	87505	20.000	ng	0.00
21) Naphthalene-d8	10.739	136	319527	20.000	ng	-0.01
39) Acenaphthene-d10	14.568	164	185487	20.000	ng	-0.01
64) Phenanthrene-d10	17.321	188	392211	20.000	ng	0.00
76) Chrysene-d12	21.503	240	408952	20.000	ng	0.00
86) Perylene-d12	23.927	264	457052	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	484373	89.334	ng	0.00
7) Phenol-d6	7.087	99	614414	82.626	ng	-0.01
23) Nitrobenzene-d5	9.122	82	413969	60.395	ng	-0.01
42) 2,4,6-Tribromophenol	16.068	330	216143	89.253	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	726764	52.722	ng	0.00
79) Terphenyl-d14	19.939	244	1073174	44.496	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	7.087	77	9680	2.259	ng	91
27) 2,4-Dimethylphenol	9.986	122	9314	2.007	ng	# 2
31) Naphthalene	10.792	128	68926	4.175	ng	99
32) Benzoic acid	9.986	122	9314	6.367	ng	92
37) 2-Methylnaphthalene	12.398	142	57613	4.955	ng	99
38) 1-Methylnaphthalene	12.616	142	62391	5.701	ng	99
48) 2-Nitroaniline	13.698	65	56	4.363	ng	# 13
49) Acenaphthylene	14.304	152	123751	7.184	ng	100
53) 3-Nitroaniline	14.515	138	58	4.368	ng	# 1
56) 4-Nitrophenol	14.774	139	361	7.081	ng	# 53
57) 2,4-Dinitrotoluene	14.951	165	773	4.135	ng	# 37
58) Fluorene	15.621	166	78598	5.715	ng	99
62) 4-Nitroaniline	15.615	138	813	5.989	ng	# 12
71) Phenanthrene	17.368	178	743743	36.286	ng	99
72) Anthracene	17.456	178	133139	6.558	ng	99
75) Fluoranthene	19.380	202	563812	23.417	ng	99
78) Pyrene	19.745	202	786422	28.005	ng	99
81) Benzo(a)anthracene	21.486	228	330525	12.703	ng	96
83) Chrysene	21.544	228	313454	11.860	ng	96
87) Indeno(1,2,3-cd)pyrene	26.444	276	161880	5.951	ng	95
88) Benzo(b)fluoranthene	23.180	252	447668	17.581	ng	# 97
89) Benzo(k)fluoranthene	23.180	252	448343	15.801	ng	98
90) Benzo(a)pyrene	23.815	252	275827	11.003	ng	98
91) Dibenzo(a,h)anthracene	26.456	278	43306	5.714	ng	# 86
92) Benzo(g,h,i)perylene	27.238	276	183761	7.665	ng	99

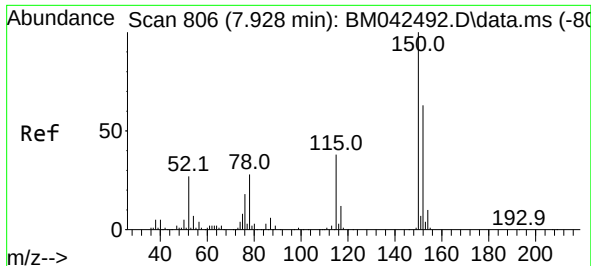
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
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QLast Update : Tue Oct 31 02:55:18 2023
Response via : Initial Calibration

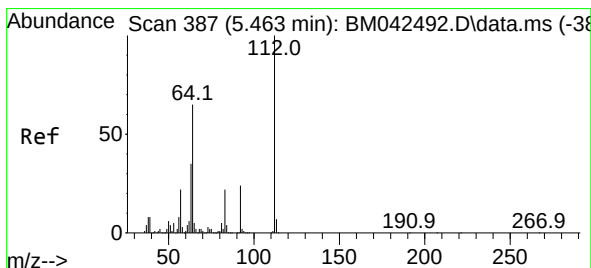
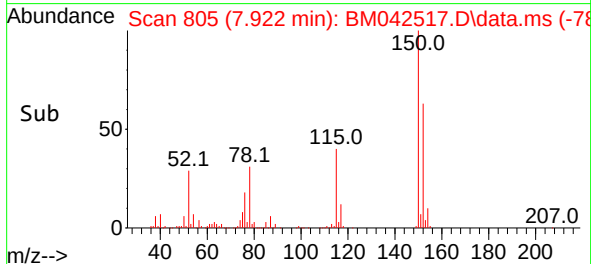
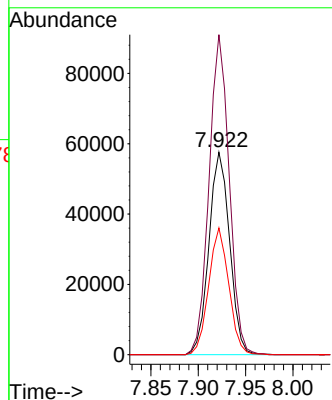
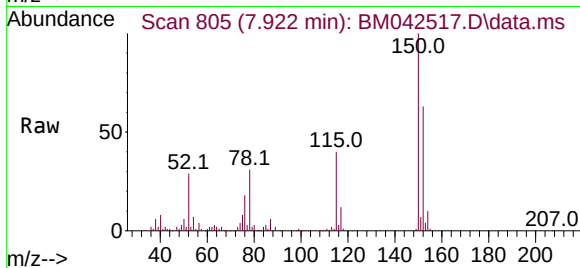




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

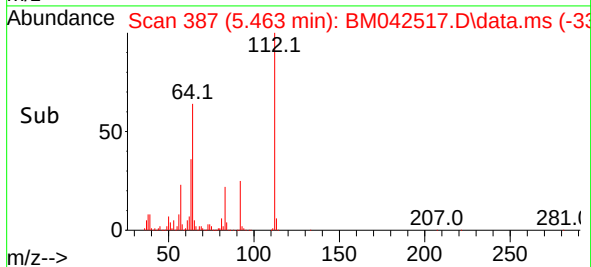
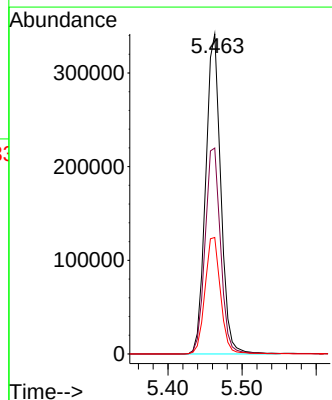
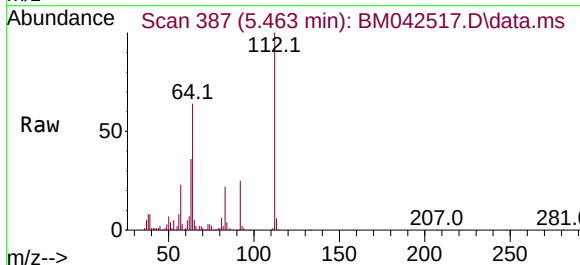
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)

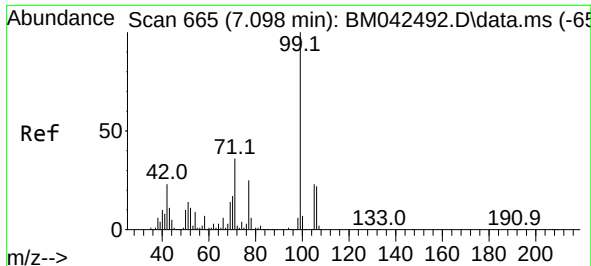
Tgt Ion:152 Resp: 87505
Ion Ratio Lower Upper
152 100
150 158.1 127.4 191.0
115 62.6 47.9 71.9



#5
2-Fluorophenol
Concen: 89.334 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

Tgt Ion:112 Resp: 484373
Ion Ratio Lower Upper
112 100
64 64.4 52.1 78.1
63 36.4 28.3 42.5

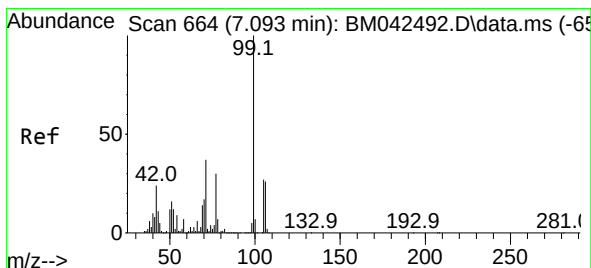
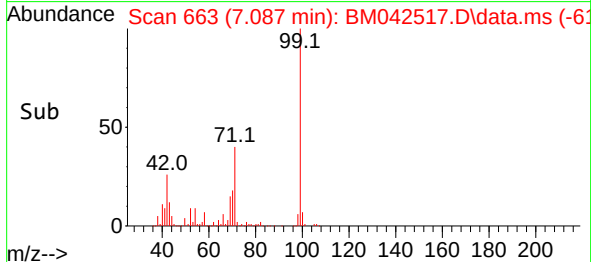
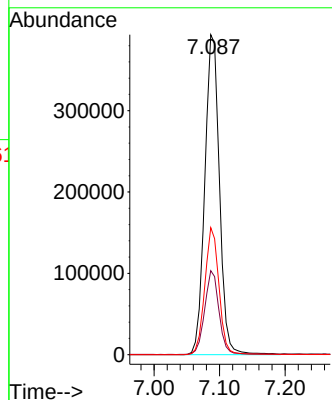
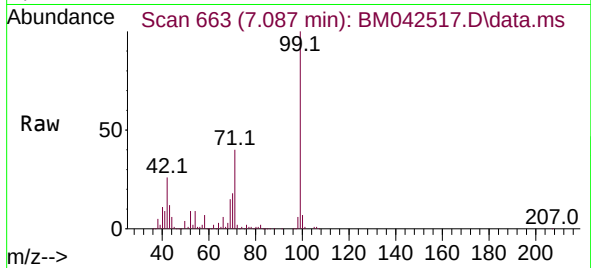




#7
Phenol-d6
Concen: 82.626 ng
RT: 7.087 min Scan# 611
Delta R.T. -0.012 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

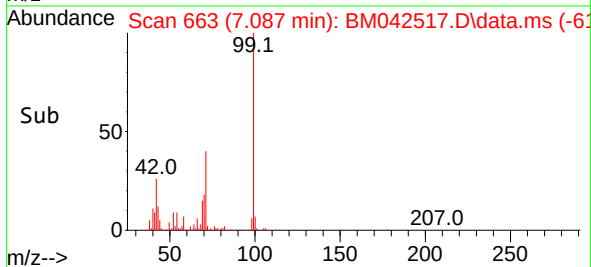
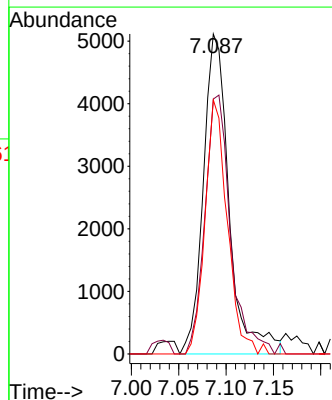
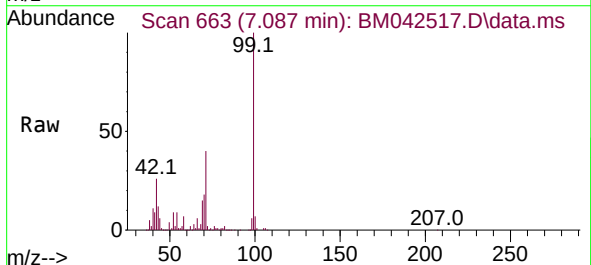
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)

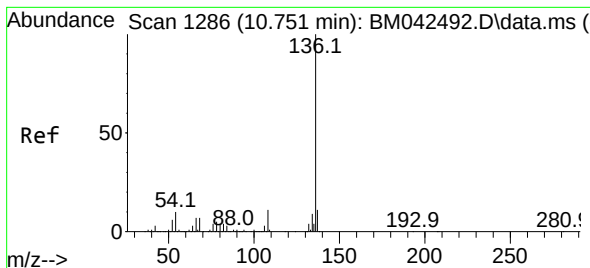
Tgt Ion: 99 Resp: 614414
Ion Ratio Lower Upper
99 100
42 26.2 18.7 28.1
71 39.7 29.1 43.7



#9
Benzaldehyde
Concen: 2.259 ng
RT: 7.087 min Scan# 663
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

Tgt Ion: 77 Resp: 9680
Ion Ratio Lower Upper
77 100
105 79.6 69.7 109.7
106 79.4 66.4 106.4

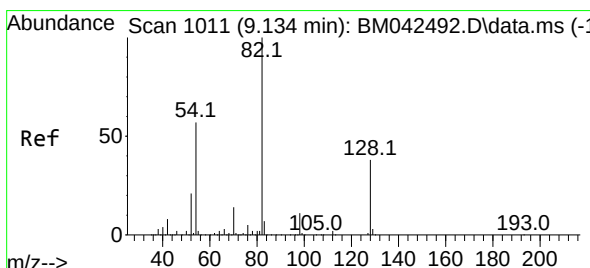
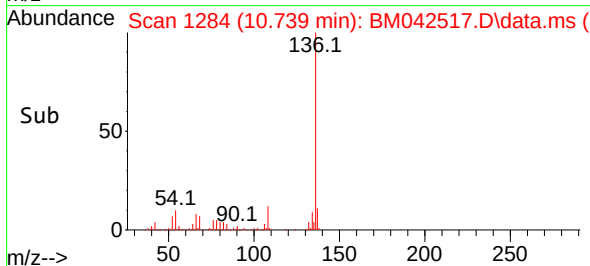
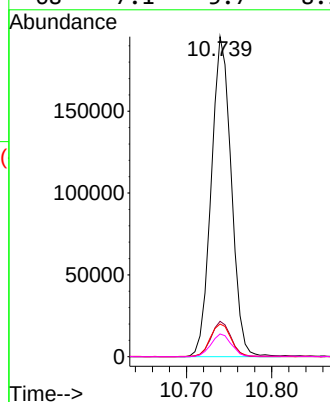
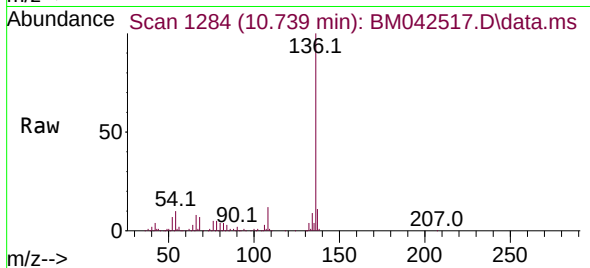




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.739 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

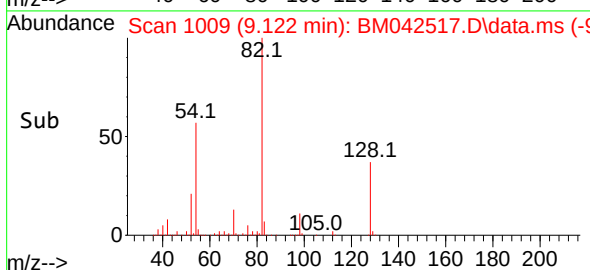
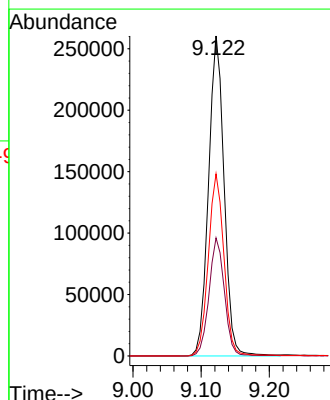
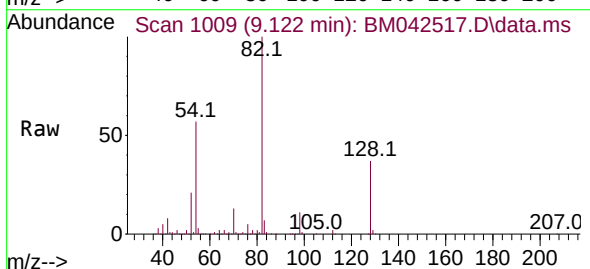
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)

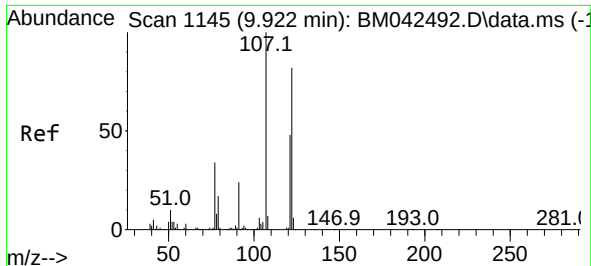
Tgt Ion:	136	Resp:	319527
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.0	13.6
54	10.2	8.0	12.0
68	7.1	5.7	8.5



#23
Nitrobenzene-d5
Concen: 60.395 ng
RT: 9.122 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

Tgt Ion:	82	Resp:	413969
Ion Ratio	Lower	Upper	
82	100		
128	36.9	30.7	46.1
54	56.9	45.3	67.9





#27

2,4-Dimethylphenol

Concen: 2.007 ng

RT: 9.986 min Scan# 1156

Delta R.T. 0.064 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

Instrument :

BNA_M

ClientSampleId :

A-1(0-2)

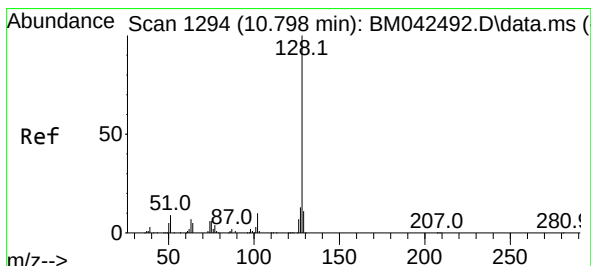
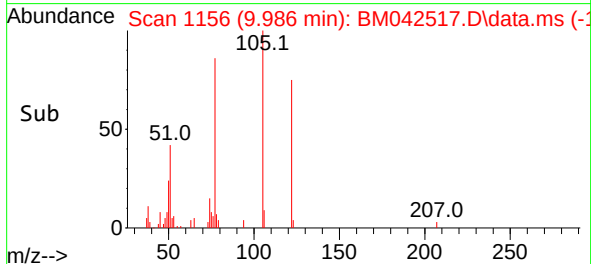
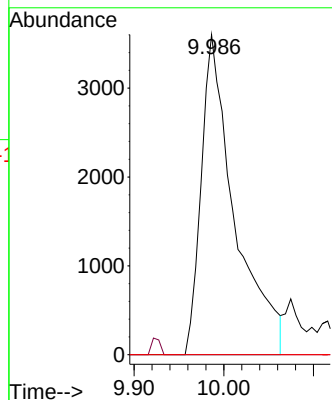
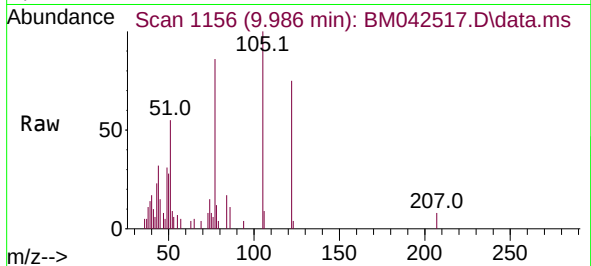
Tgt Ion:122 Resp: 9314

Ion Ratio Lower Upper

122 100

107 0.0 95.4 143.2#

121 0.0 46.0 69.0#



#31

Naphthalene

Concen: 4.175 ng

RT: 10.792 min Scan# 1293

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

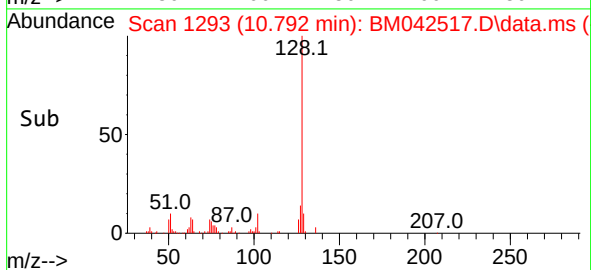
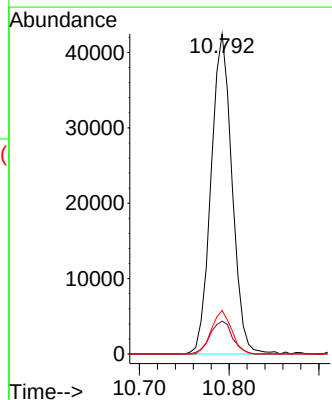
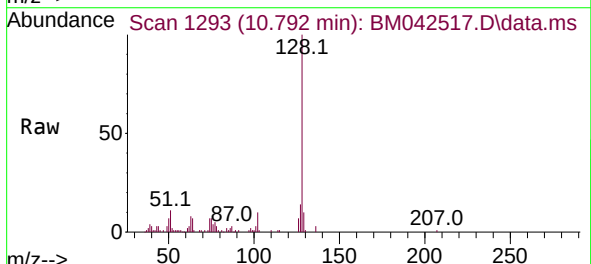
Tgt Ion:128 Resp: 68926

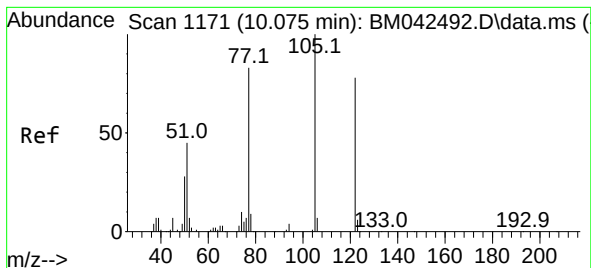
Ion Ratio Lower Upper

128 100

129 10.2 8.8 13.2

127 13.6 10.6 15.8





#32

Benzoic acid

Concen: 6.367 ng

RT: 9.986 min Scan# 1171

Delta R.T. -0.089 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

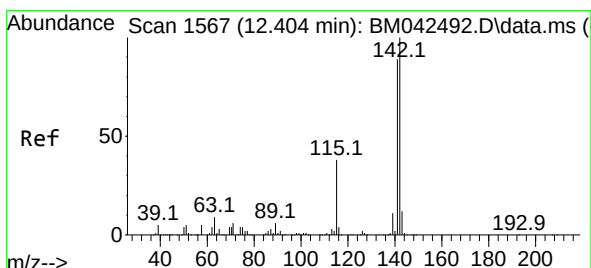
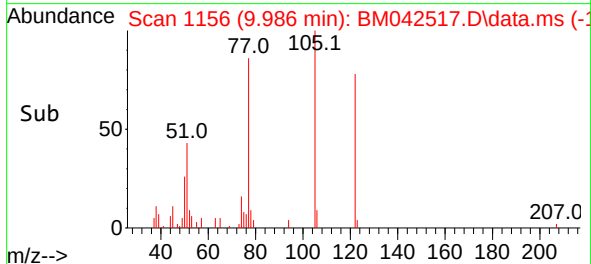
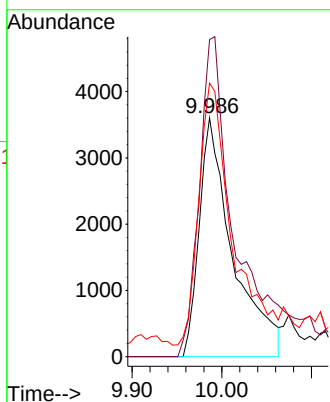
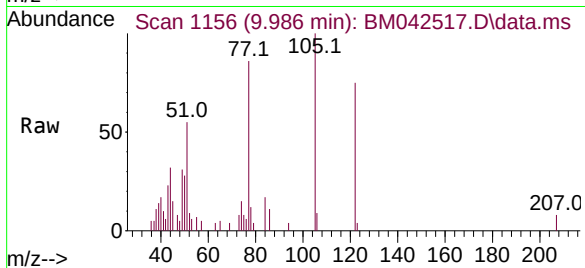
Instrument :

BNA_M

ClientSampleId :

A-1(0-2)

Tgt Ion:	122	Resp:	9314
Ion	Ratio	Lower	Upper
122	100		
105	132.8	105.2	145.2
77	114.6	84.8	124.8



#37

2-Methylnaphthalene

Concen: 4.955 ng

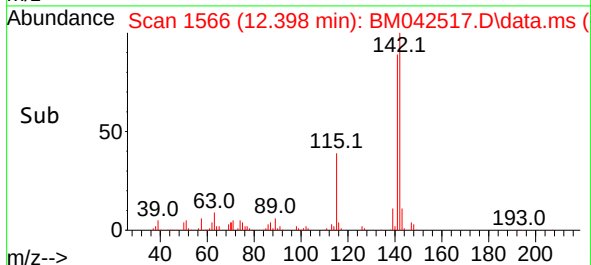
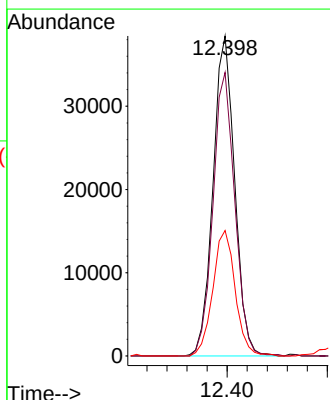
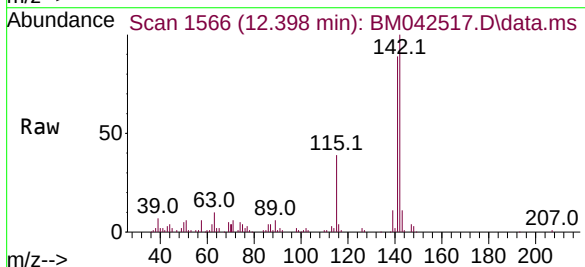
RT: 12.398 min Scan# 1566

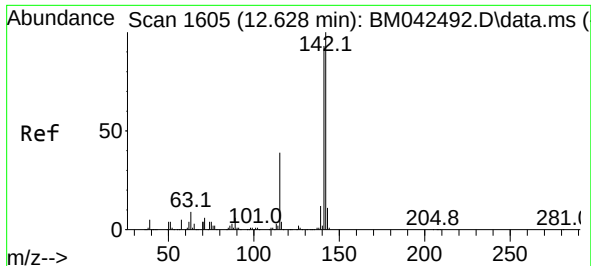
Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

Tgt Ion:	142	Resp:	57613
Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.9	106.3
115	39.2	30.2	45.2

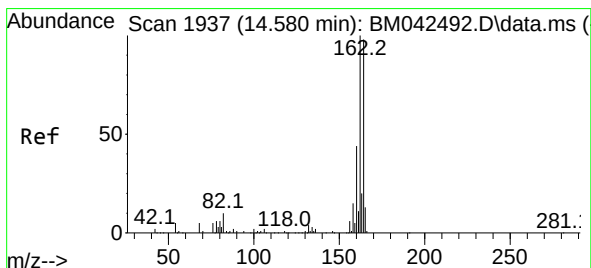
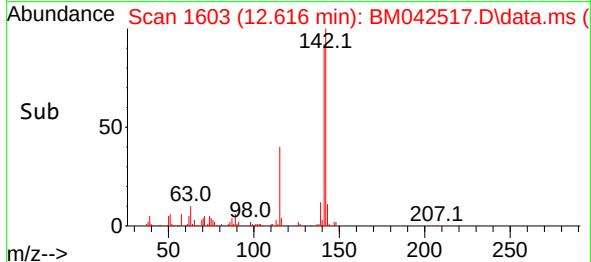
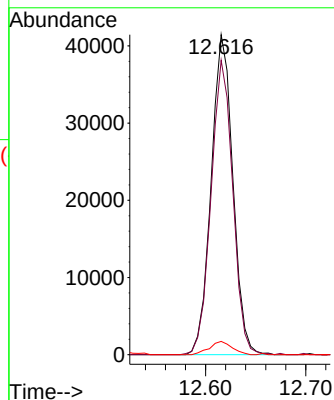
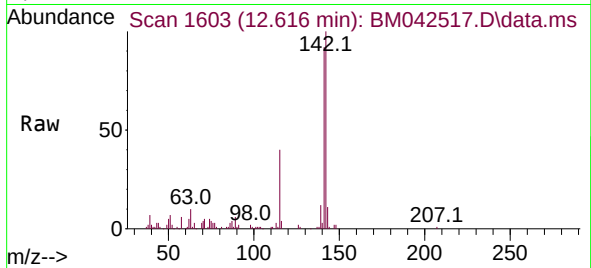




#38
1-Methylnaphthalene
Concen: 5.701 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

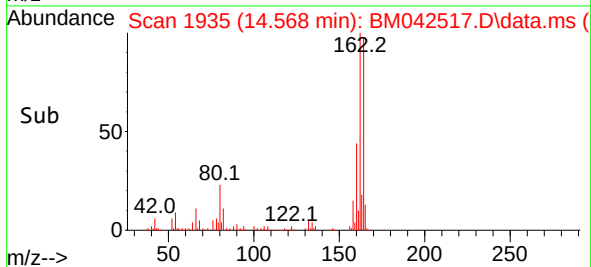
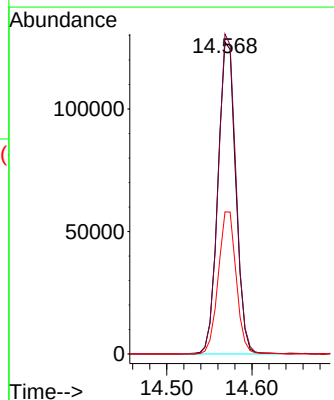
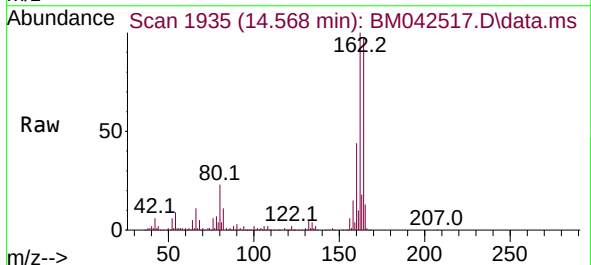
Instrument :
BNA_M
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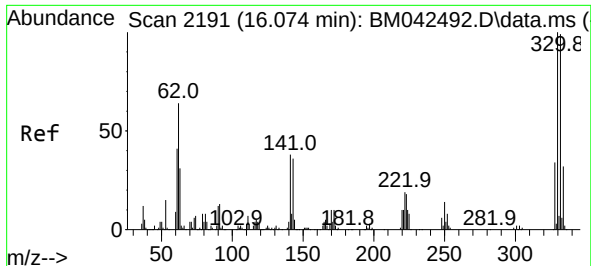
Tgt Ion:142 Resp: 62391
Ion Ratio Lower Upper
142 100
141 92.0 74.4 111.6
116 4.1 3.2 4.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.568 min Scan# 1935
Delta R.T. -0.012 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

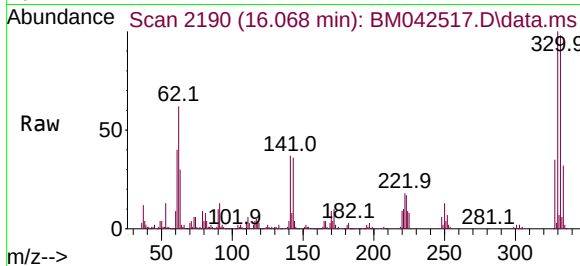
Tgt Ion:164 Resp: 185487
Ion Ratio Lower Upper
164 100
162 102.6 81.6 122.4
160 45.6 36.2 54.4



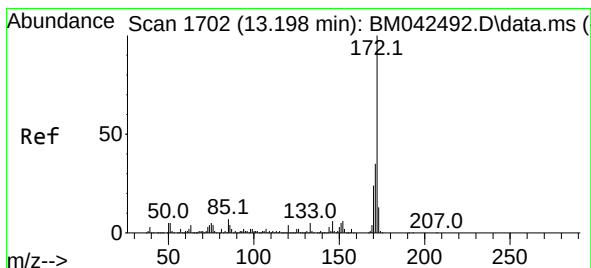
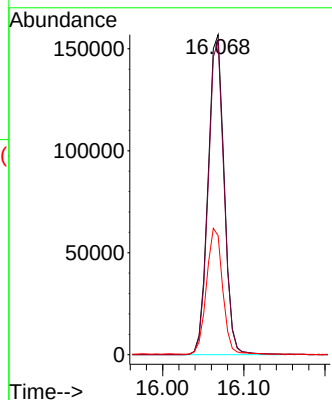
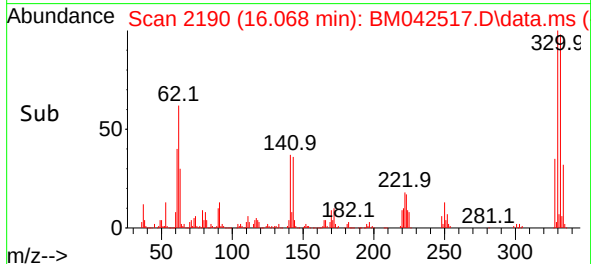


#42
2,4,6-Tribromophenol
Concen: 89.253 ng
RT: 16.068 min Scan# 2191
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

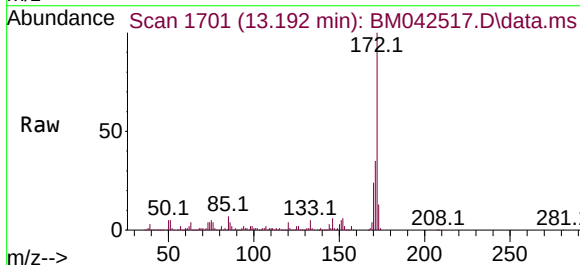
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)



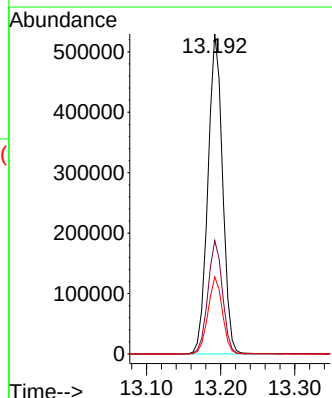
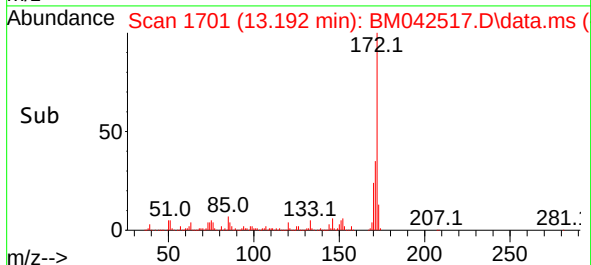
Tgt Ion:330 Resp: 216143
Ion Ratio Lower Upper
330 100
332 96.6 78.8 118.2
141 39.3 31.1 46.7

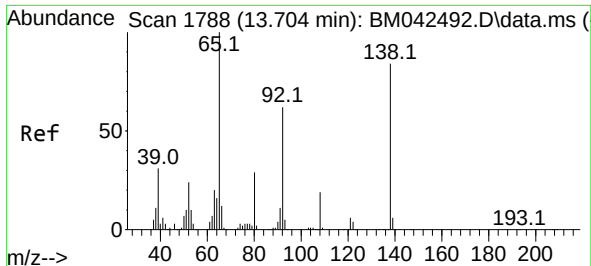


#45
2-Fluorobiphenyl
Concen: 52.722 ng
RT: 13.192 min Scan# 1701
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57



Tgt Ion:172 Resp: 726764
Ion Ratio Lower Upper
172 100
171 35.5 28.2 42.2
170 24.1 19.0 28.4

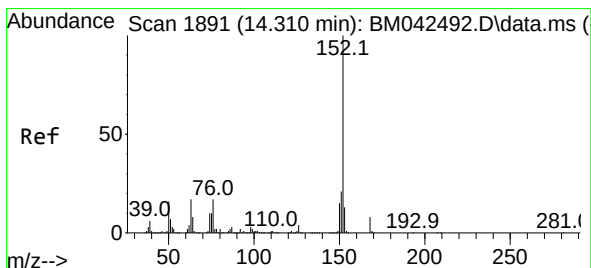
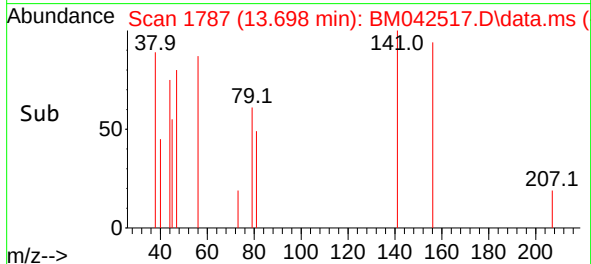
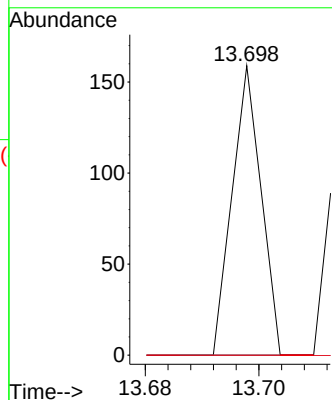
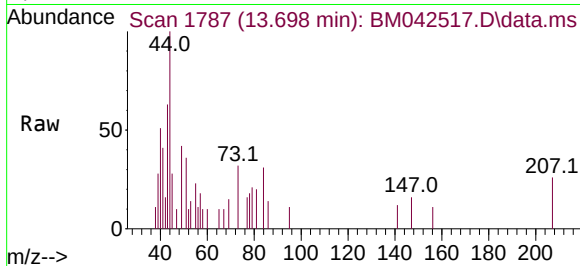




#48
2-Nitroaniline
Concen: 4.363 ng
RT: 13.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

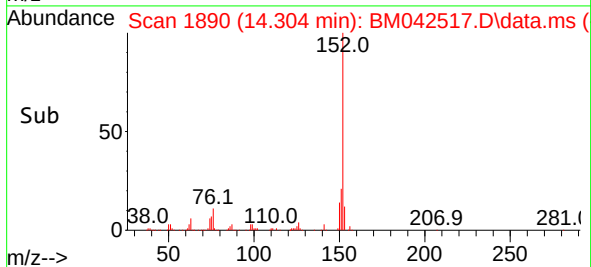
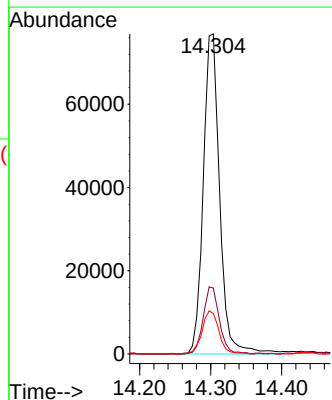
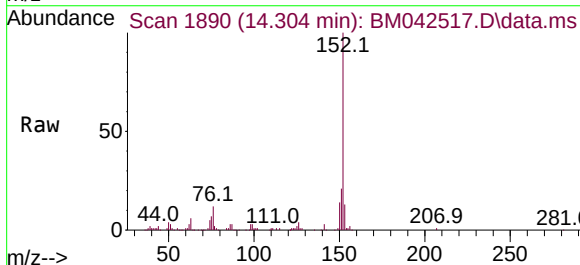
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)

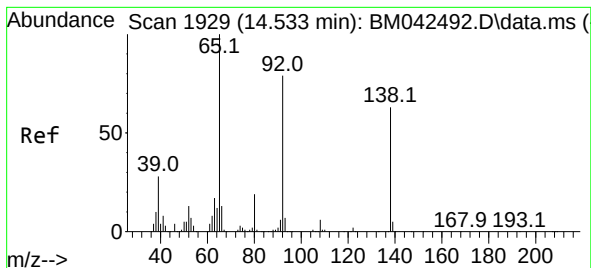
Tgt Ion: 65 Resp: 56
Ion Ratio Lower Upper
65 100
92 0.0 49.4 74.2#
138 0.0 66.9 100.3#



#49
Acenaphthylene
Concen: 7.184 ng
RT: 14.304 min Scan# 1890
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

Tgt Ion: 152 Resp: 123751
Ion Ratio Lower Upper
152 100
151 20.6 16.4 24.6
153 12.6 10.4 15.6

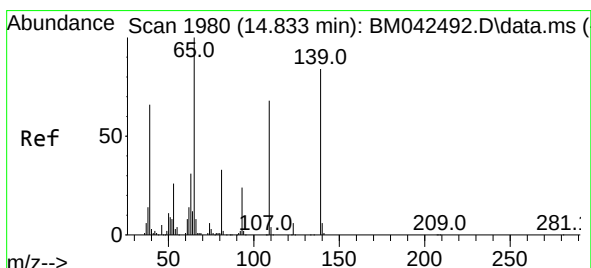
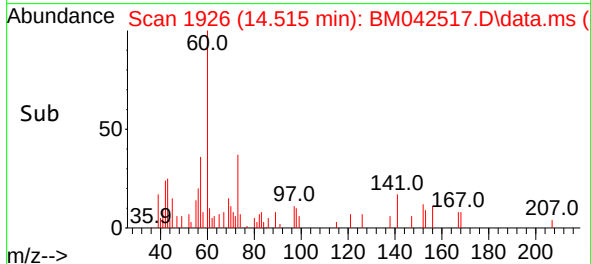
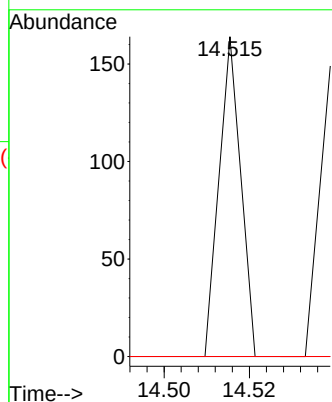
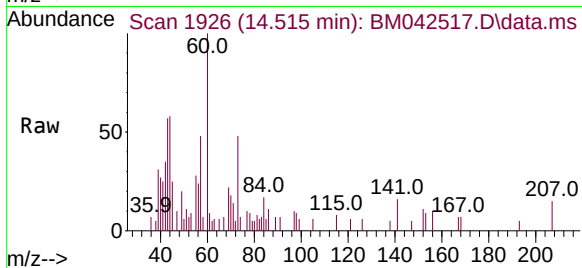




#53
3-Nitroaniline
Concen: 4.368 ng
RT: 14.515 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

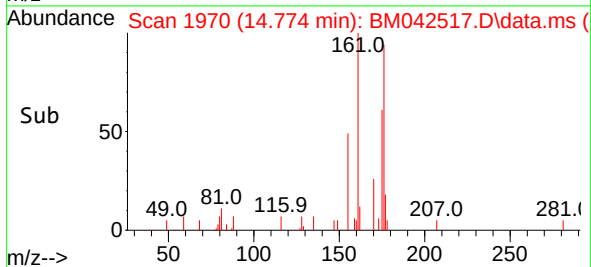
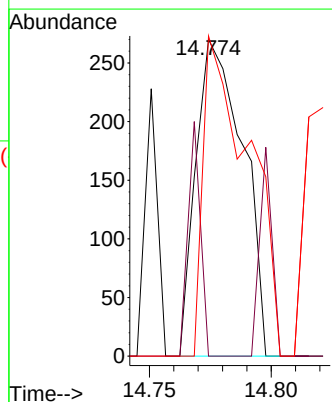
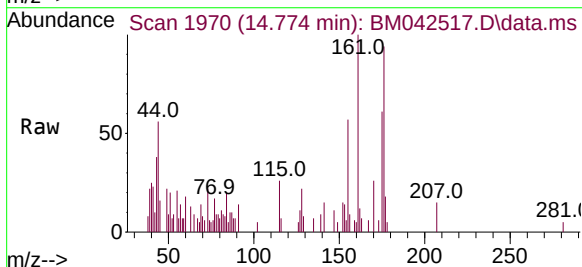
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)

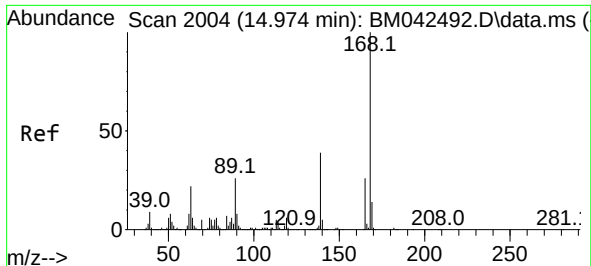
Tgt Ion:138 Resp: 58
Ion Ratio Lower Upper
138 100
108 0.0 7.9 11.9#
92 0.0 100.7 151.1#



#56
4-Nitrophenol
Concen: 7.081 ng
RT: 14.774 min Scan# 1970
Delta R.T. -0.059 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

Tgt Ion:139 Resp: 361
Ion Ratio Lower Upper
139 100
109 0.0 61.3 101.3#
65 101.1 100.2 140.2





#57

2,4-Dinitrotoluene

Concen: 4.135 ng

RT: 14.951 min Scan# 2000

Delta R.T. -0.023 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

Instrument :

BNA_M

ClientSampleId :

A-1(0-2)

Tgt Ion:165 Resp: 773

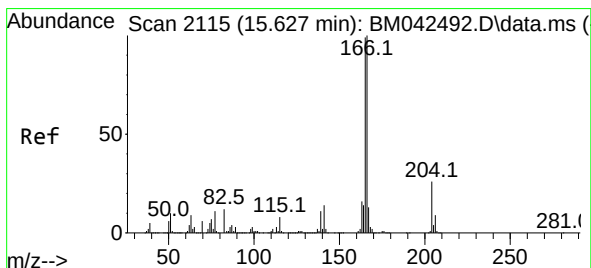
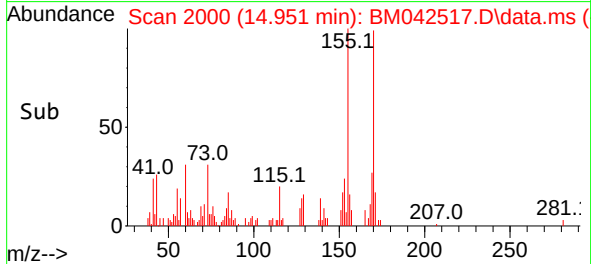
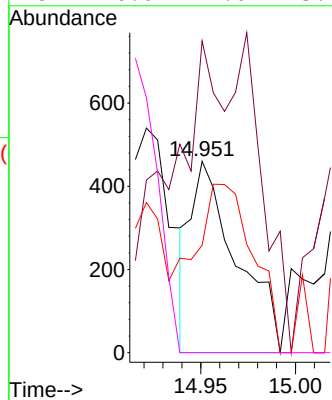
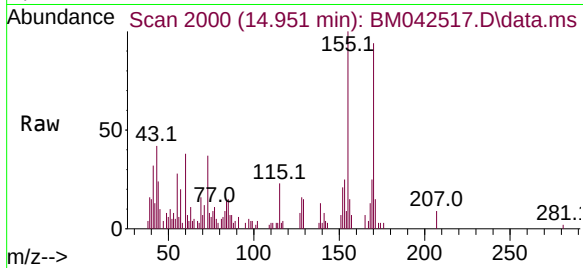
Ion Ratio Lower Upper

165 100

63 162.8 66.7 100.1#

89 56.1 80.2 120.4#

182 0.0 2.0 3.0#



#58

Fluorene

Concen: 5.715 ng

RT: 15.621 min Scan# 2114

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

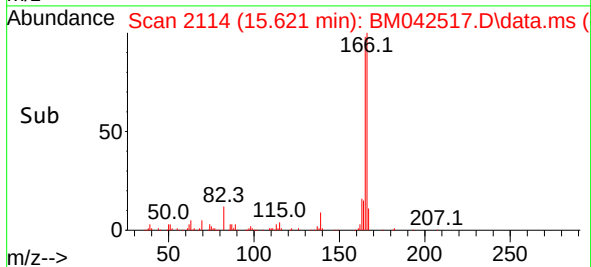
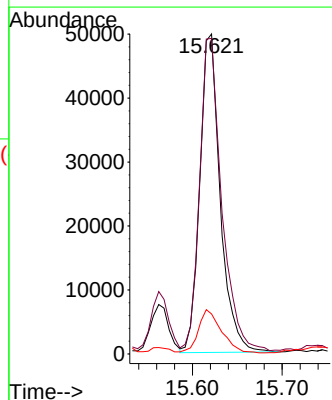
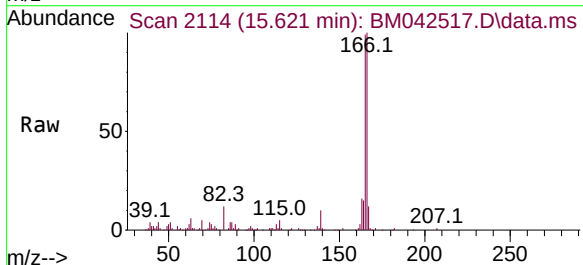
Tgt Ion:166 Resp: 78598

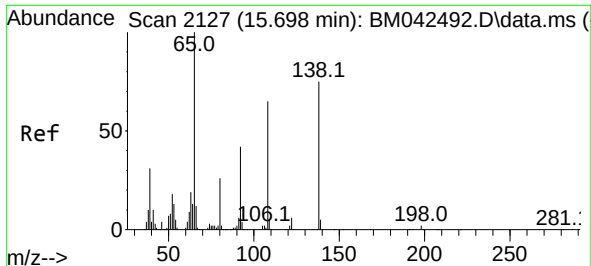
Ion Ratio Lower Upper

166 100

165 98.6 79.3 118.9

167 12.5 10.5 15.7

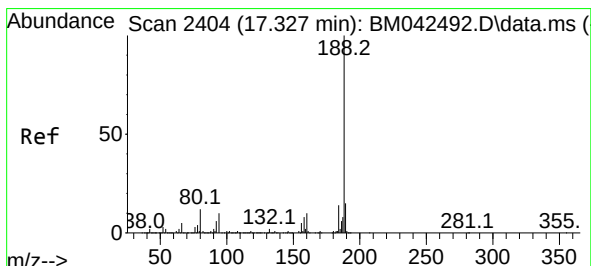
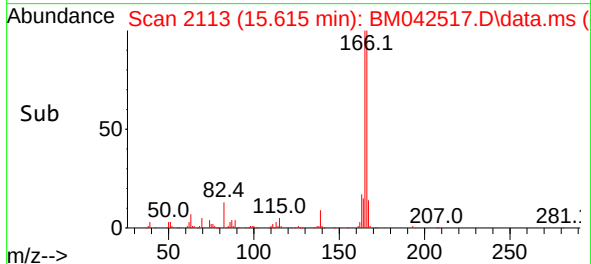
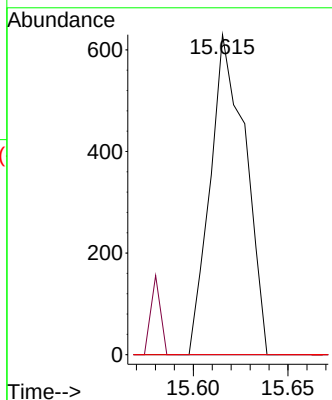
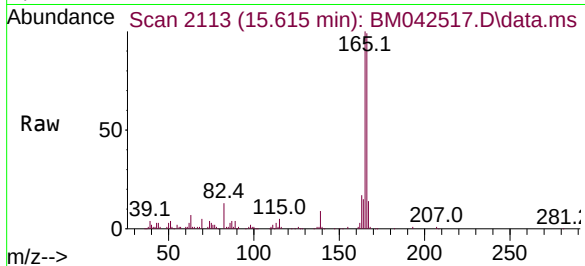




#62
4-Nitroaniline
Concen: 5.989 ng
RT: 15.615 min Scan# 21
Delta R.T. -0.083 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

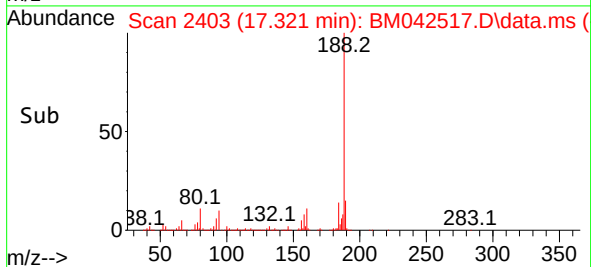
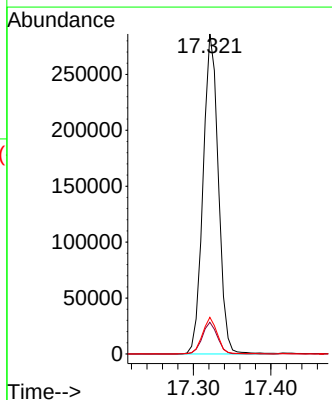
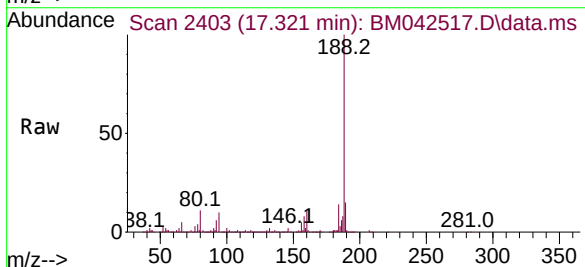
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)

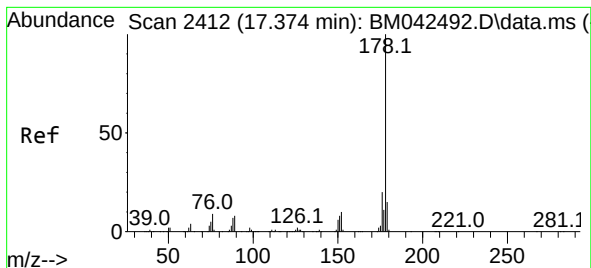
Tgt Ion:138 Resp: 813
Ion Ratio Lower Upper
138 100
92 0.0 37.0 77.0#
108 0.0 67.2 107.2#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.321 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

Tgt Ion:188 Resp: 392211
Ion Ratio Lower Upper
188 100
94 9.9 8.2 12.4
80 11.4 9.4 14.2





#71

Phenanthrene

Concen: 36.286 ng

RT: 17.368 min Scan# 2412

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

Instrument :

BNA_M

ClientSampleId :

A-1(0-2)

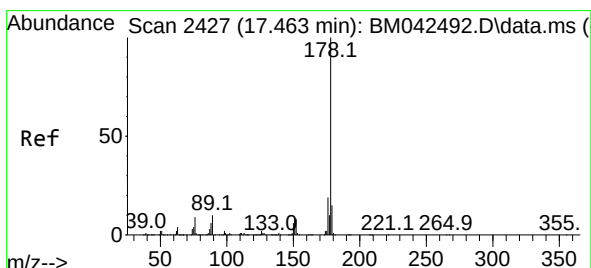
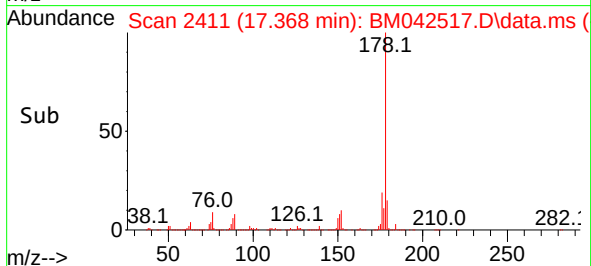
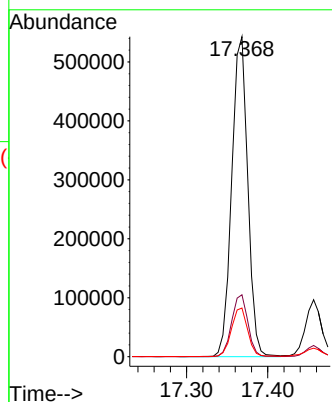
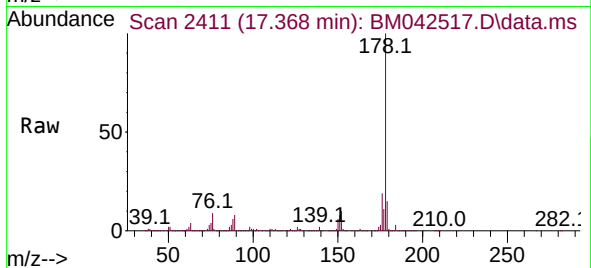
Tgt Ion:178 Resp: 743743

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

179 15.2 12.2 18.4



#72

Anthracene

Concen: 6.558 ng

RT: 17.456 min Scan# 2426

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

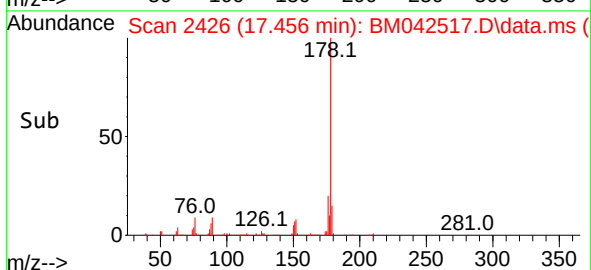
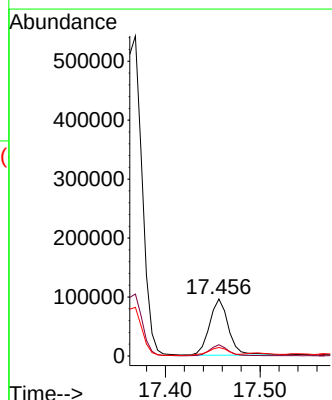
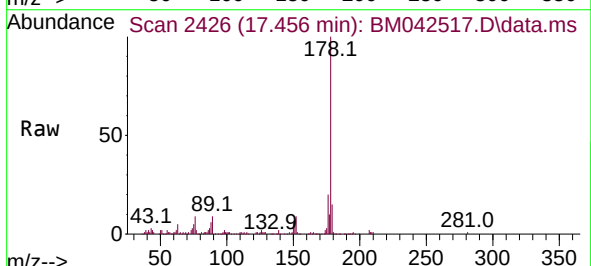
Tgt Ion:178 Resp: 133139

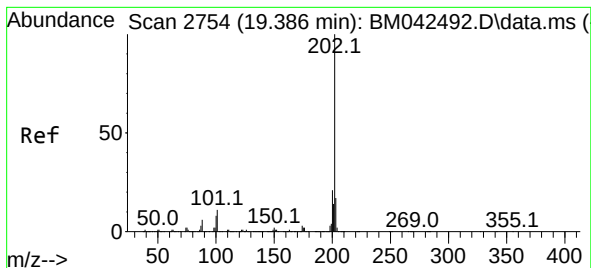
Ion Ratio Lower Upper

178 100

176 19.6 15.2 22.8

179 15.0 12.3 18.5





#75

Fluoranthene

Concen: 23.417 ng

RT: 19.380 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

Instrument :

BNA_M

ClientSampleId :

A-1(0-2)

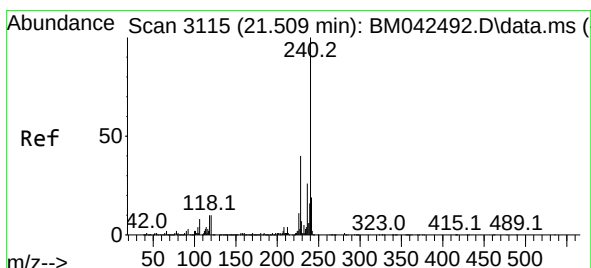
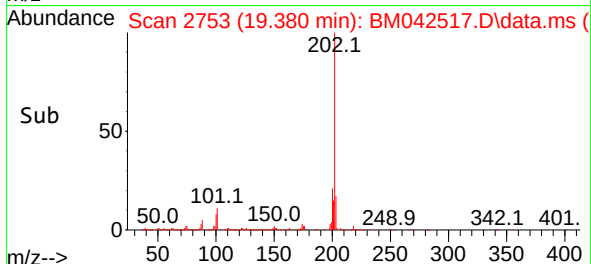
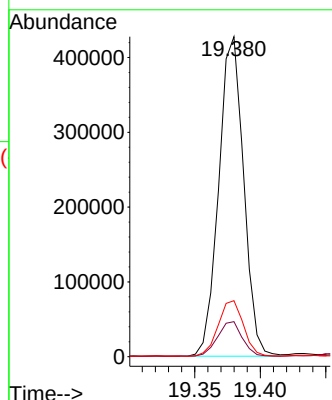
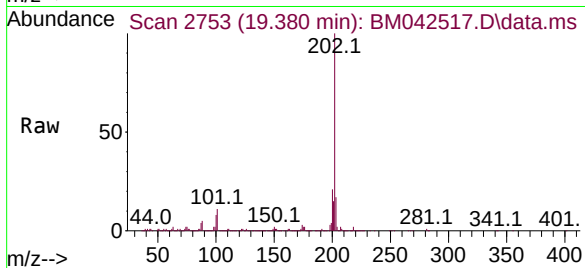
Tgt Ion:202 Resp: 563812

Ion Ratio Lower Upper

202 100

101 11.0 0.0 30.5

203 17.5 0.0 37.0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.503 min Scan# 3114

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

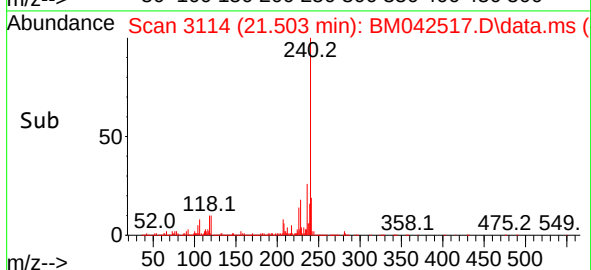
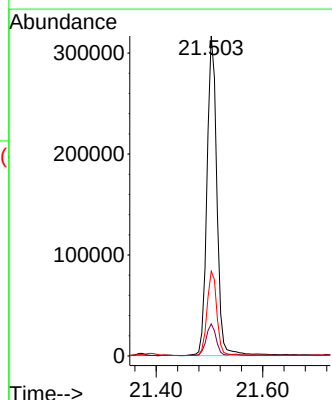
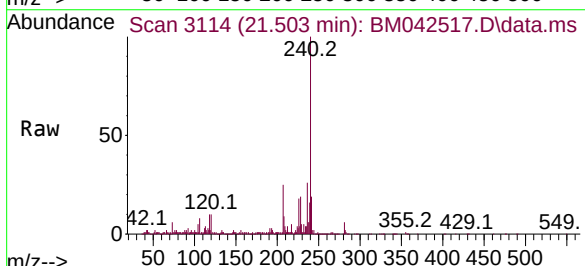
Tgt Ion:240 Resp: 408952

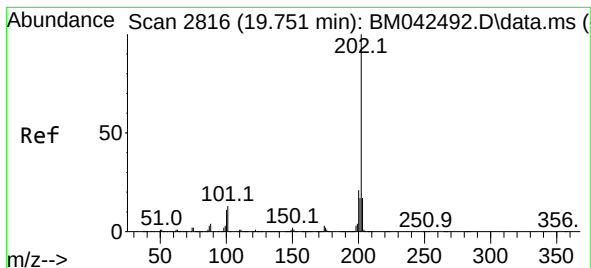
Ion Ratio Lower Upper

240 100

120 10.0 8.3 12.5

236 26.5 20.8 31.2





#78

Pyrene

Concen: 28.005 ng

RT: 19.745 min Scan# 2816

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

Instrument :

BNA_M

ClientSampleId :

A-1(0-2)

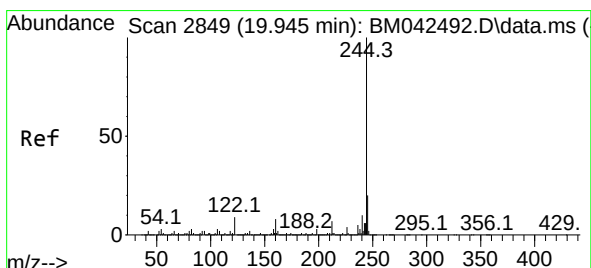
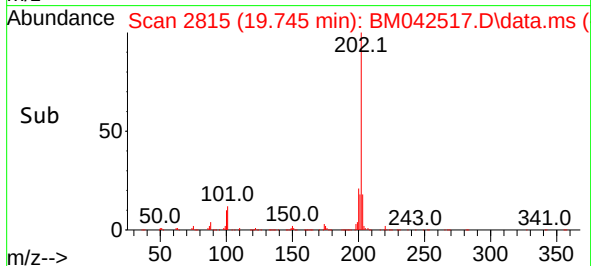
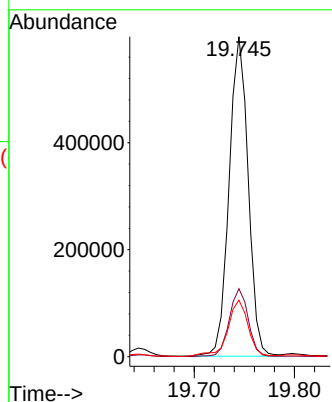
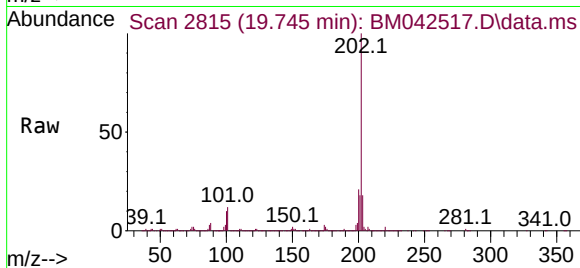
Tgt Ion:202 Resp: 786422

Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.7 13.7 20.5



#79

Terphenyl-d14

Concen: 44.496 ng

RT: 19.939 min Scan# 2848

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

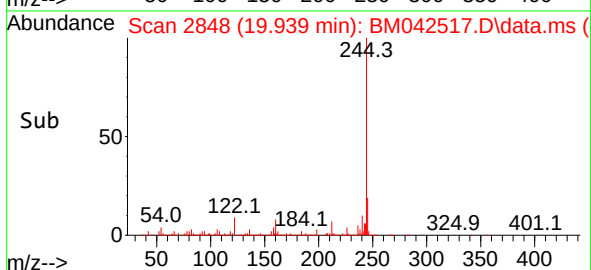
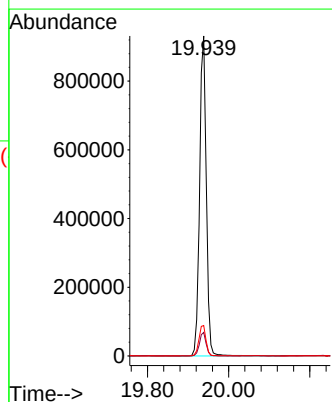
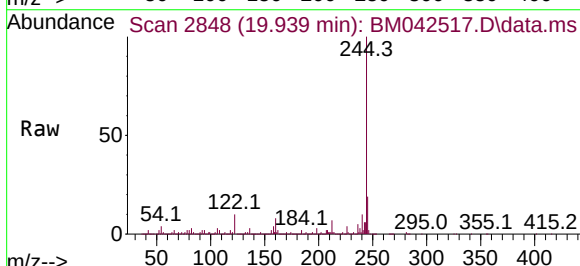
Tgt Ion:244 Resp: 1073174

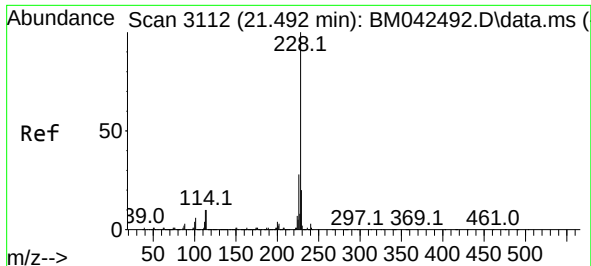
Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.2

122 9.5 7.2 10.8

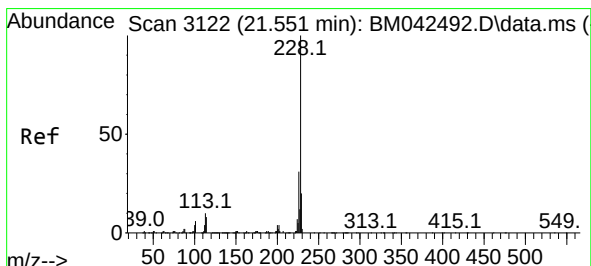
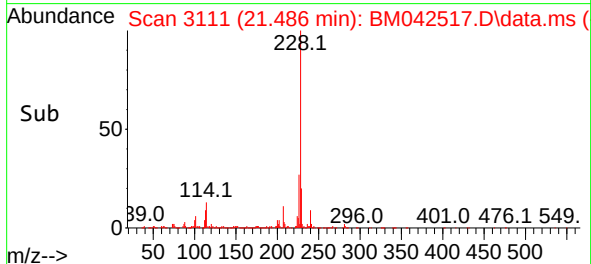
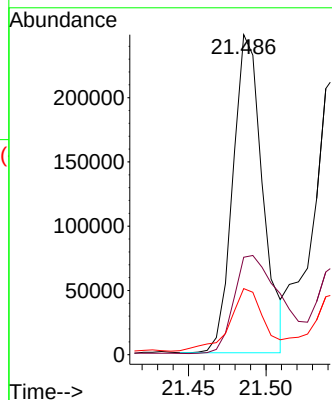
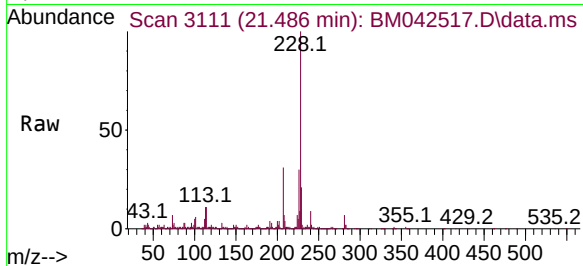




#81
Benzo(a)anthracene
Concen: 12.703 ng
RT: 21.486 min Scan# 3112
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

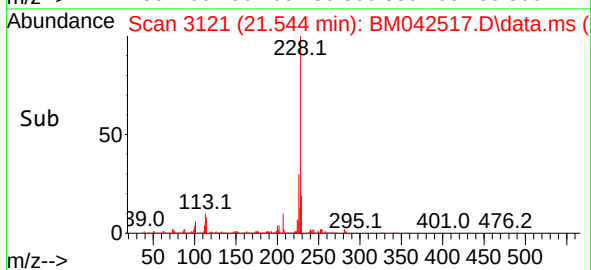
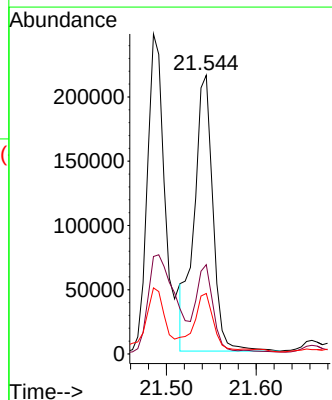
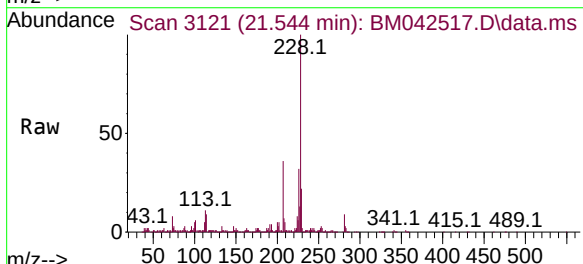
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)

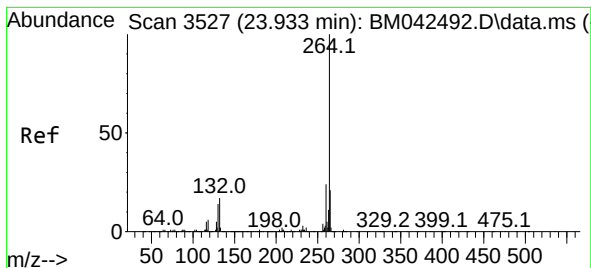
Tgt Ion:228 Resp: 330525
Ion Ratio Lower Upper
228 100
226 30.5 22.3 33.5
229 20.7 15.8 23.8



#83
Chrysene
Concen: 11.860 ng
RT: 21.544 min Scan# 3121
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

Tgt Ion:228 Resp: 313454
Ion Ratio Lower Upper
228 100
226 32.0 24.4 36.6
229 21.7 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

Instrument :

BNA_M

ClientSampleId :

A-1(0-2)

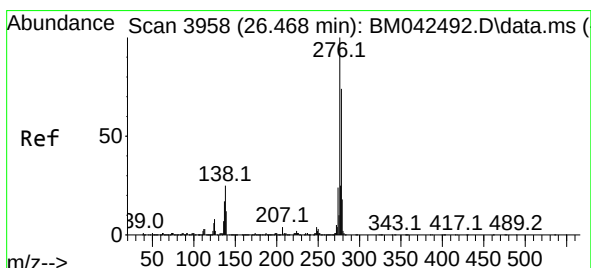
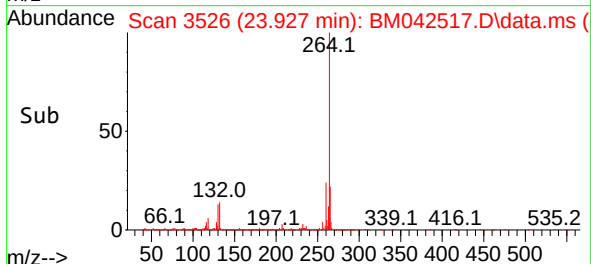
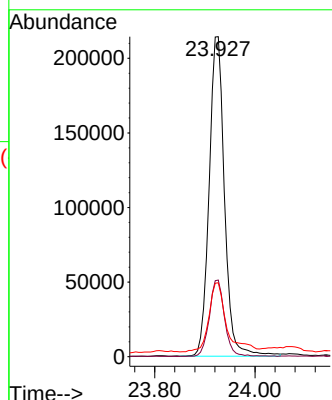
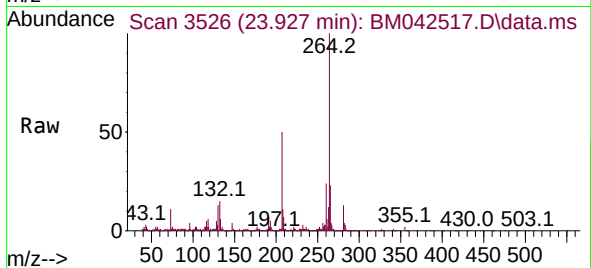
Tgt Ion:264 Resp: 457052

Ion Ratio Lower Upper

264 100

260 24.0 19.0 28.4

265 23.1 18.7 28.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.951 ng

RT: 26.444 min Scan# 3954

Delta R.T. -0.024 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

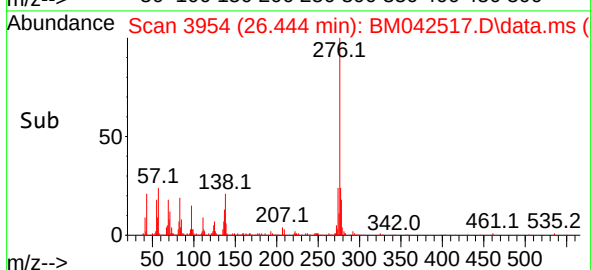
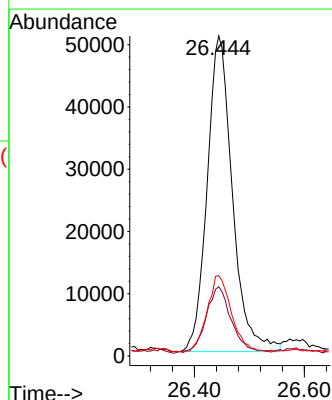
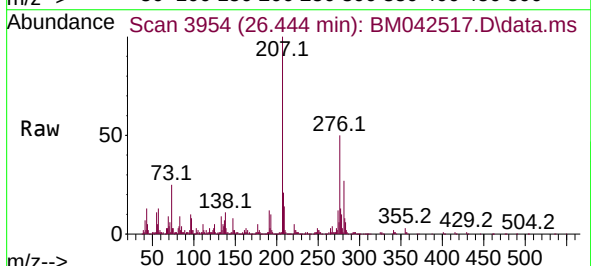
Tgt Ion:276 Resp: 161880

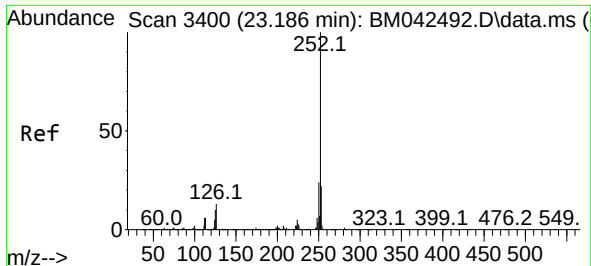
Ion Ratio Lower Upper

276 100

138 21.4 20.6 31.0

277 24.0 19.5 29.3

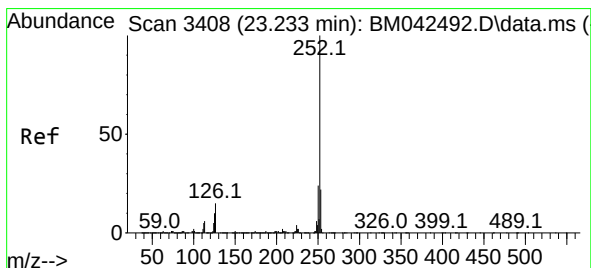
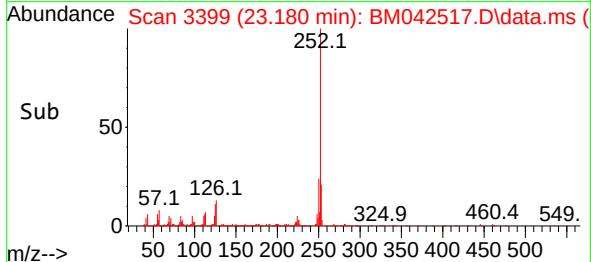
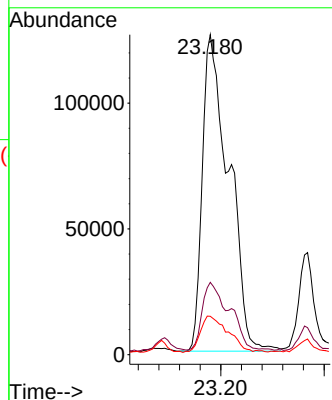
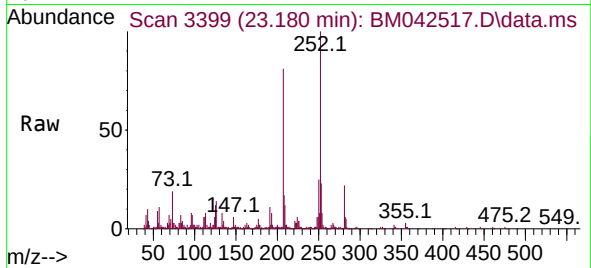




#88
Benzo(b)fluoranthene
Concen: 17.581 ng
RT: 23.180 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

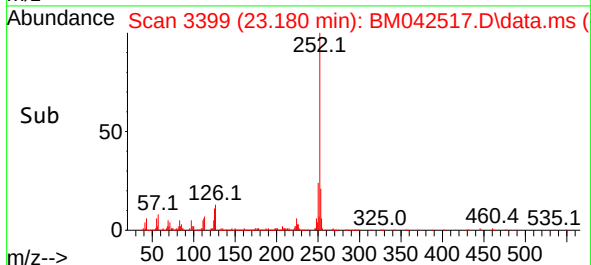
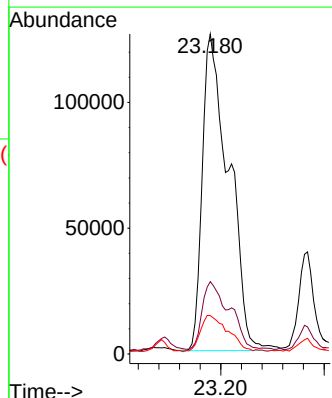
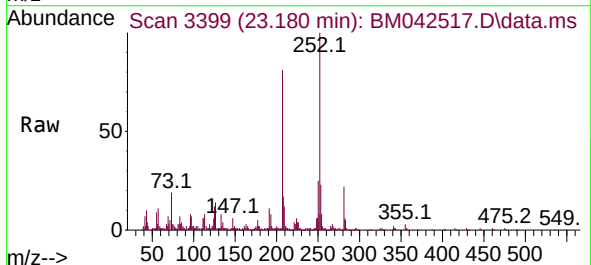
Instrument :
BNA_M
ClientSampleId :
A-1(0-2)

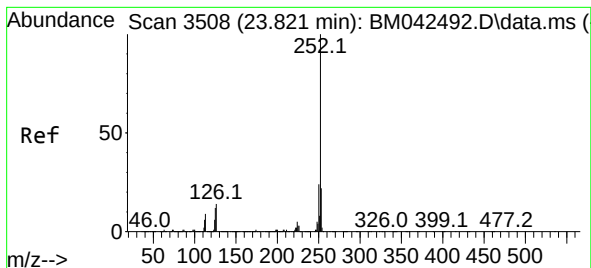
Tgt Ion:252 Resp: 447668
Ion Ratio Lower Upper
252 100
253 22.6 17.5 26.3
125 12.0 7.8 11.6#



#89
Benzo(k)fluoranthene
Concen: 15.801 ng
RT: 23.180 min Scan# 3399
Delta R.T. -0.053 min
Lab File: BM042517.D
Acq: 31 Oct 2023 18:57

Tgt Ion:252 Resp: 448343
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 12.0 8.2 12.4





#90

Benzo(a)pyrene

Concen: 11.003 ng

RT: 23.815 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

Instrument :

BNA_M

ClientSampleId :

A-1(0-2)

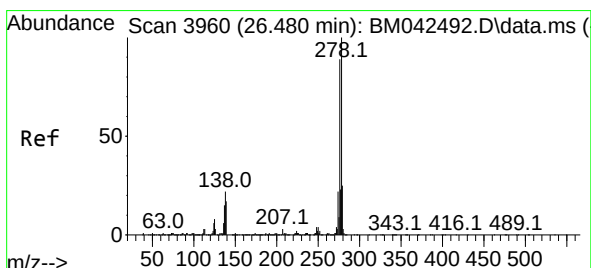
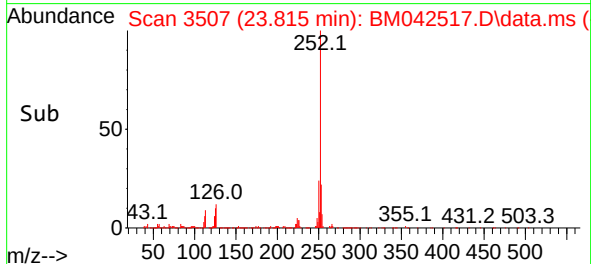
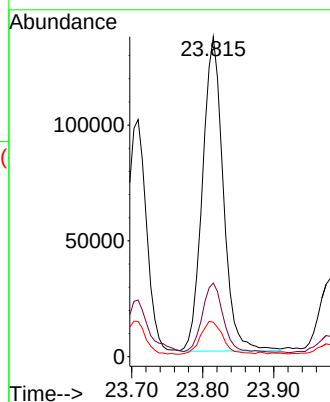
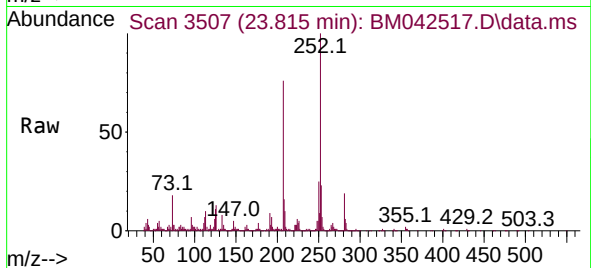
Tgt Ion:252 Resp: 275827

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 10.7 9.4 14.2



#91

Dibenzo(a,h)anthracene

Concen: 5.714 ng

RT: 26.456 min Scan# 3956

Delta R.T. -0.024 min

Lab File: BM042517.D

Acq: 31 Oct 2023 18:57

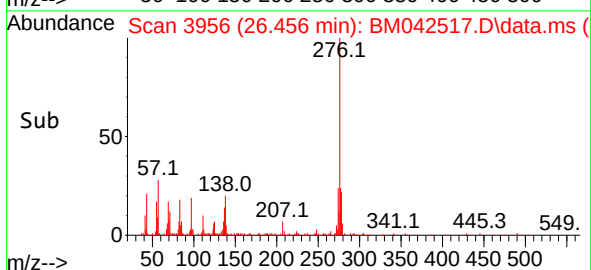
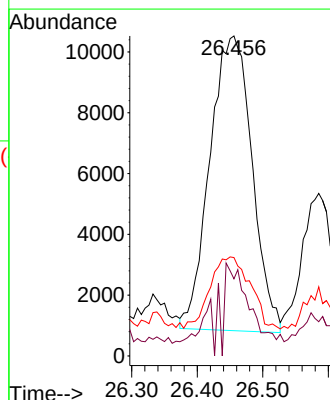
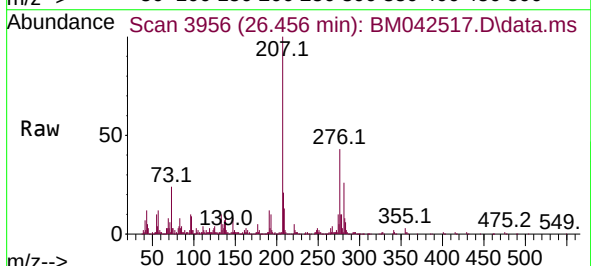
Tgt Ion:278 Resp: 43306

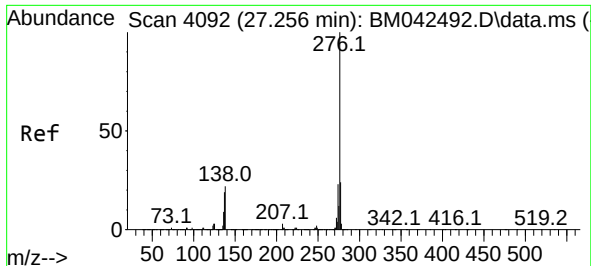
Ion Ratio Lower Upper

278 100

139 24.1 13.4 20.2#

279 30.7 19.7 29.5#





#92
 Benzo(g,h,i)perylene
 Concen: 7.665 ng
 RT: 27.238 min Scan# 4089
 Delta R.T. -0.018 min
 Lab File: BM042517.D
 Acq: 31 Oct 2023 18:57

Instrument :
 BNA_M
 ClientSampleId :
 A-1(0-2)

Tgt Ion:276 Resp: 183761

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.2	28.8
138	21.0	17.3	25.9

