

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042520.D
 Acq On : 31 Oct 2023 20:46
 Operator : MA/JU
 Sample : 04938-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-6(0-2)

Quant Time: Nov 01 01:50:04 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

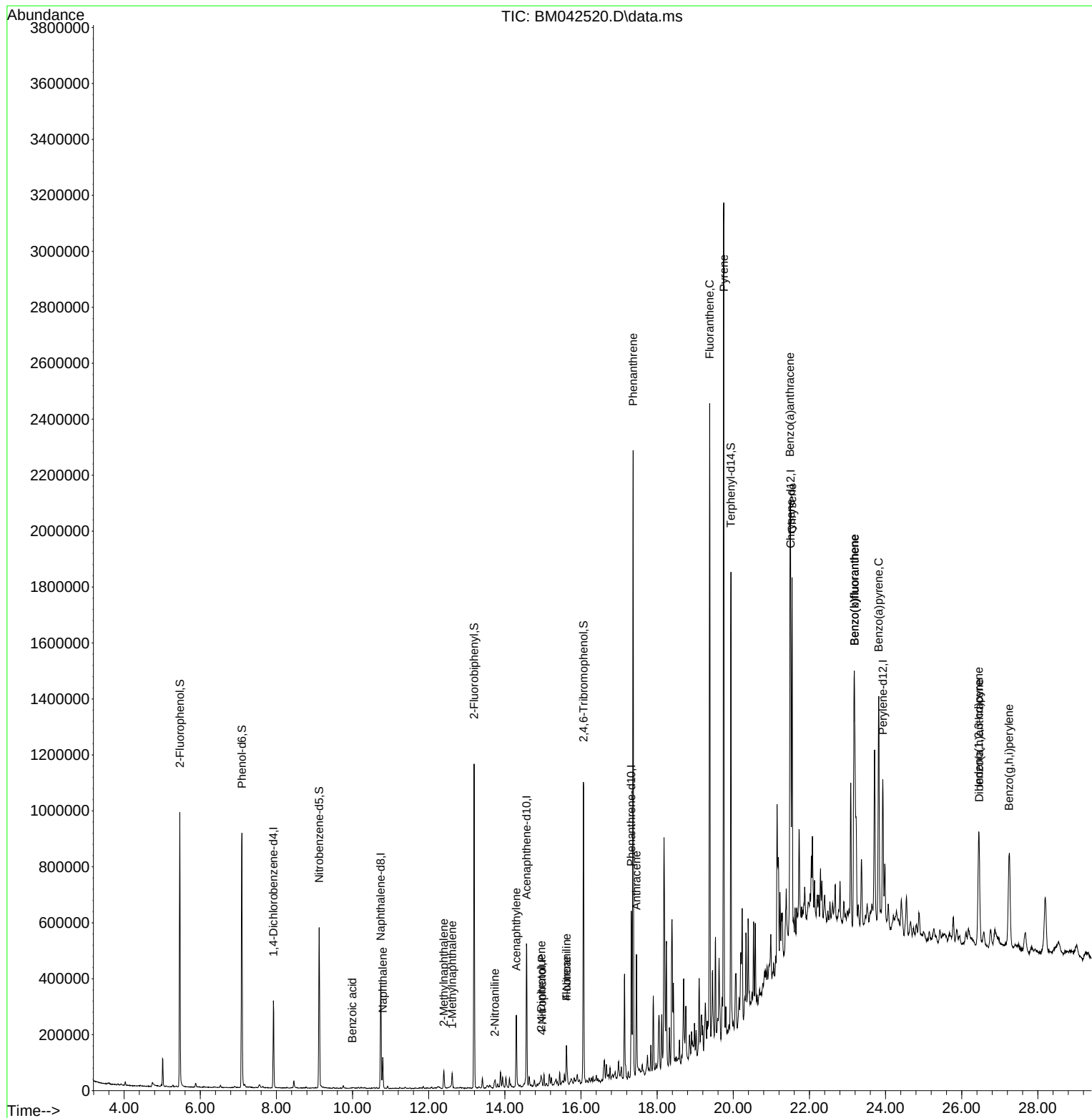
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	73006	20.000	ng	0.00
21) Naphthalene-d8	10.739	136	272862	20.000	ng	-0.01
39) Acenaphthene-d10	14.569	164	157986	20.000	ng	-0.01
64) Phenanthrene-d10	17.321	188	336286	20.000	ng	0.00
76) Chrysene-d12	21.509	240	356968	20.000	ng	0.00
86) Perylene-d12	23.927	264	399067	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	352234	77.865	ng	0.00
7) Phenol-d6	7.093	99	454866	73.318	ng	0.00
23) Nitrobenzene-d5	9.122	82	310380	53.026	ng	-0.01
42) 2,4,6-Tribromophenol	16.068	330	168800	81.837	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	523136	44.557	ng	0.00
79) Terphenyl-d14	19.939	244	706678	33.567	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	10.792	128	77681	5.510	ng	99
32) Benzoic acid	9.992	122	944	4.379	ng	# 77
37) 2-Methylnaphthalene	12.398	142	24711	2.489	ng	95
38) 1-Methylnaphthalene	12.616	142	21077	2.255	ng	100
48) 2-Nitroaniline	13.733	65	624	4.509	ng	# 13
49) Acenaphthylene	14.304	152	175597	11.967	ng	98
56) 4-Nitrophenol	14.974	139	5646	9.285	ng	# 5
57) 2,4-Dinitrotoluene	14.957	165	1464	4.335	ng	# 64
58) Fluorene	15.621	166	66822	5.704	ng	97
62) 4-Nitroaniline	15.621	138	783	6.022	ng	# 12
71) Phenanthrene	17.368	178	1144557	65.128	ng	99
72) Anthracene	17.457	178	246938	14.186	ng	100
75) Fluoranthene	19.380	202	1250146	60.558	ng	99
78) Pyrene	19.751	202	1742236	71.078	ng	100
81) Benzo(a)anthracene	21.492	228	721061	31.748	ng	94
83) Chrysene	21.545	228	631589	27.376	ng	96
87) Indeno(1,2,3-cd)pyrene	26.450	276	348450	14.671	ng	# 93
88) Benzo(b)fluoranthene	23.186	252	945957	42.548	ng	98
89) Benzo(k)fluoranthene	23.186	252	945957	38.183	ng	99
90) Benzo(a)pyrene	23.821	252	599733	27.399	ng	96
91) Dibenzo(a,h)anthracene	26.462	278	89366	7.862	ng	# 92
92) Benzo(g,h,i)perylene	27.244	276	379857	18.146	ng	98

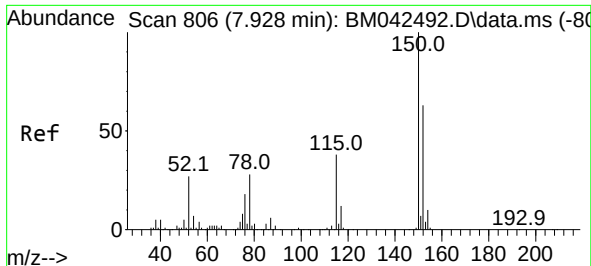
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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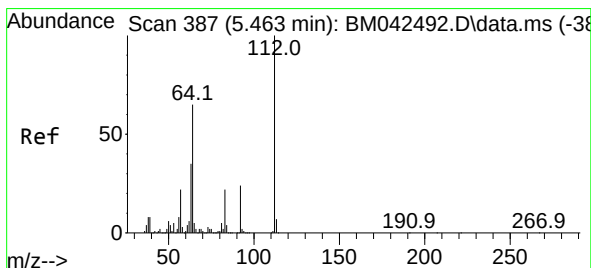
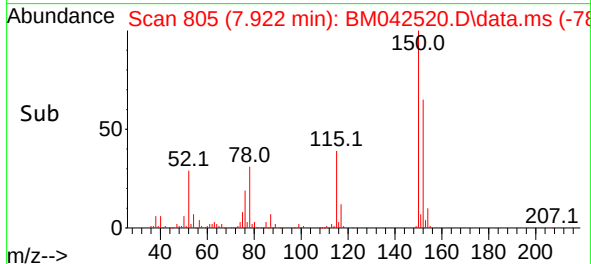
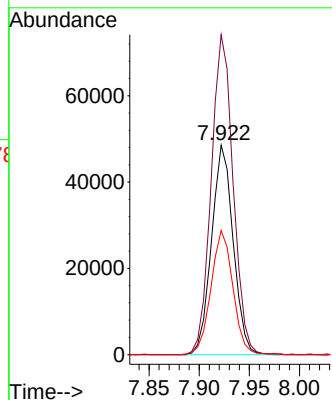
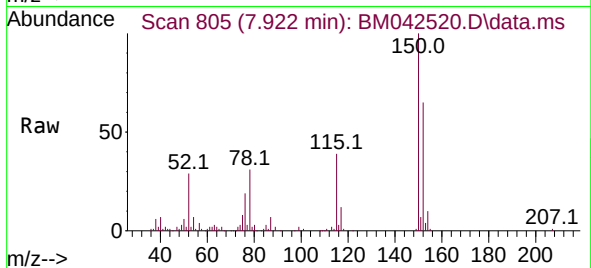




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

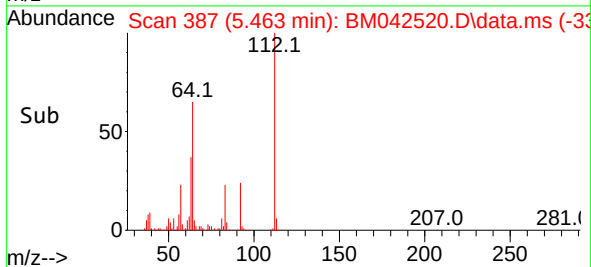
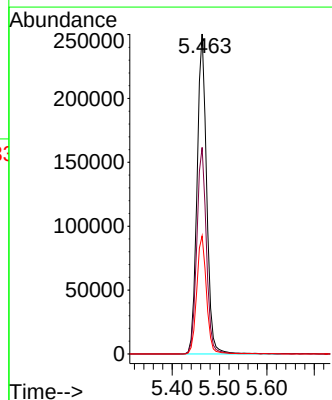
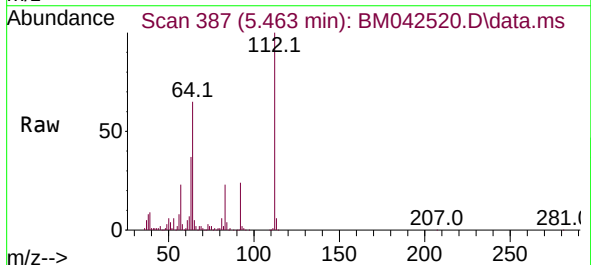
Instrument :
BNA_M
ClientSampleId :
A-6(0-2)

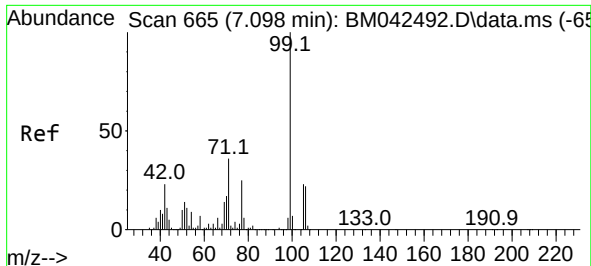
Tgt Ion:152 Resp: 73006
Ion Ratio Lower Upper
152 100
150 152.7 127.4 191.0
115 59.3 47.9 71.9



#5
2-Fluorophenol
Concen: 77.865 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion:112 Resp: 352234
Ion Ratio Lower Upper
112 100
64 64.6 52.1 78.1
63 36.9 28.3 42.5

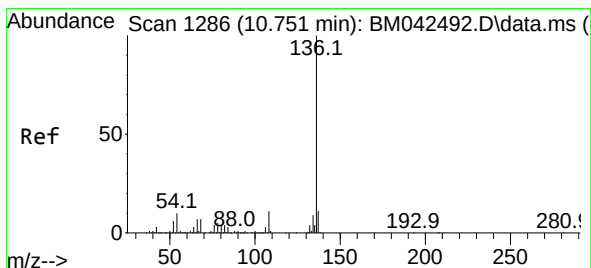
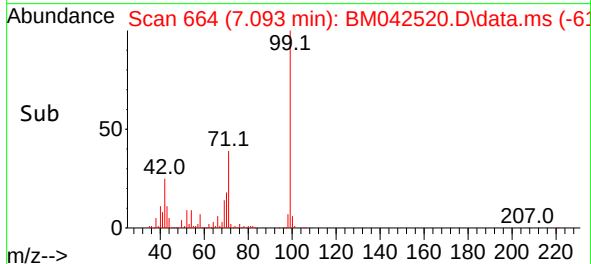
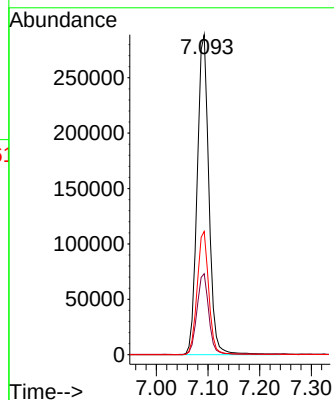
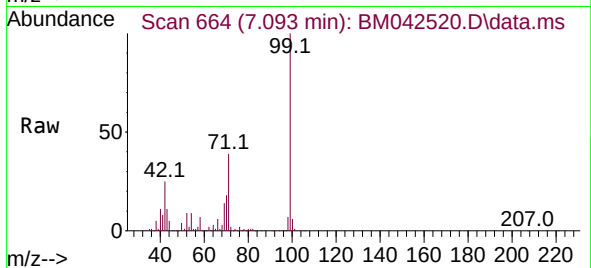




#7
Phenol-d6
Concen: 73.318 ng
RT: 7.093 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

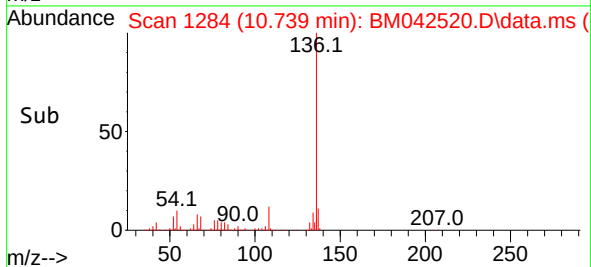
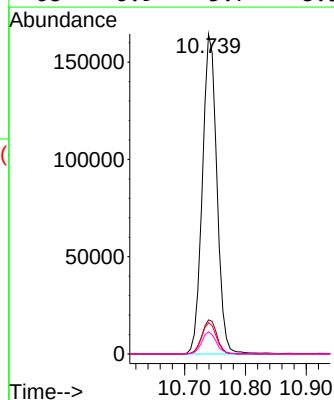
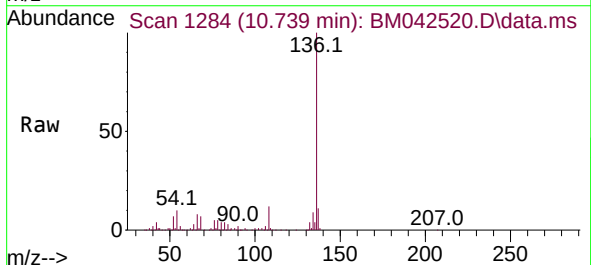
Instrument :
BNA_M
ClientSampleId :
A-6(0-2)

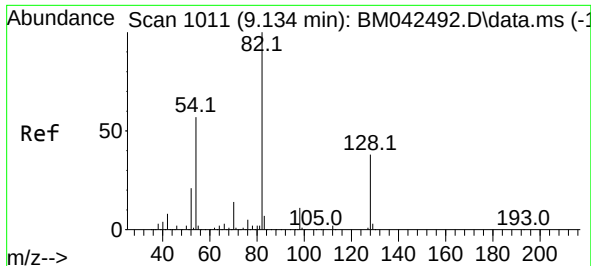
Tgt Ion: 99 Resp: 454866
Ion Ratio Lower Upper
99 100
42 25.3 18.7 28.1
71 38.5 29.1 43.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.012 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion: 136 Resp: 272862
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.6
54 9.8 8.0 12.0
68 6.9 5.7 8.5

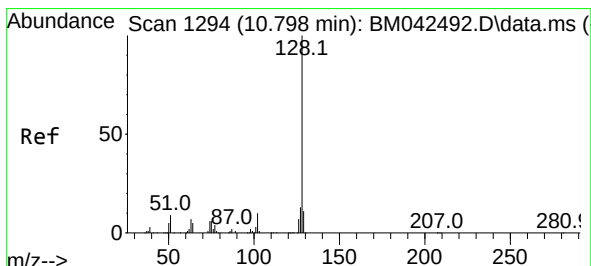
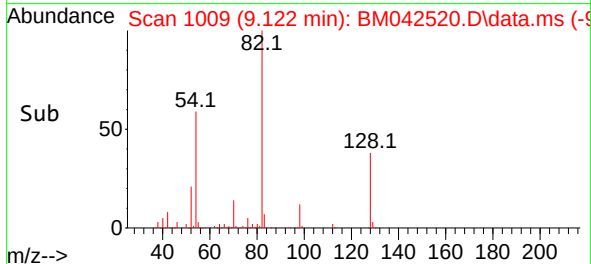
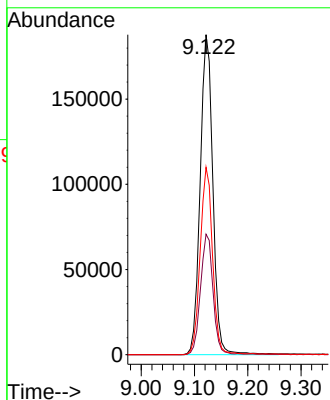
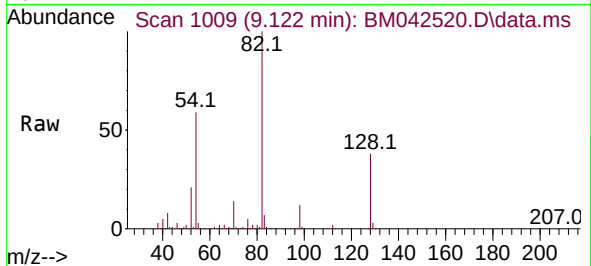




#23
Nitrobenzene-d5
Concen: 53.026 ng
RT: 9.122 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

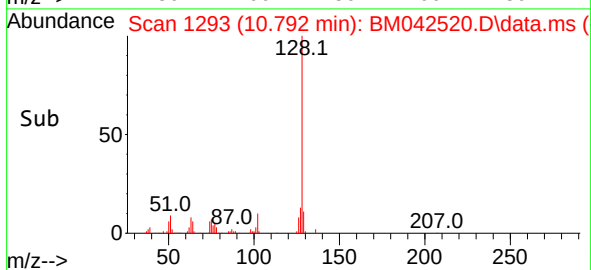
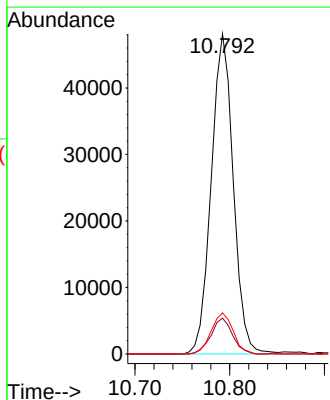
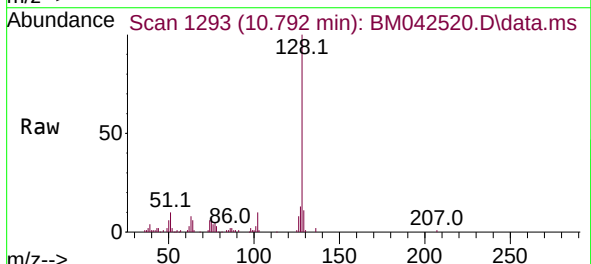
Instrument :
BNA_M
ClientSampleId :
A-6(0-2)

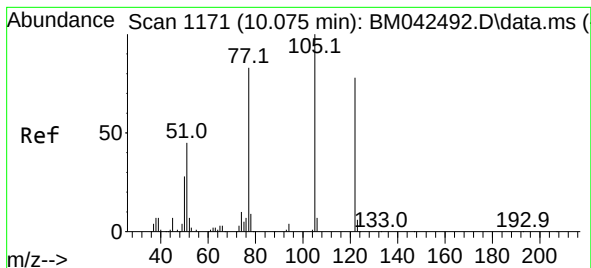
Tgt Ion: 82 Resp: 310380
Ion Ratio Lower Upper
82 100
128 37.7 30.7 46.1
54 58.5 45.3 67.9



#31
Naphthalene
Concen: 5.510 ng
RT: 10.792 min Scan# 1293
Delta R.T. -0.006 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion: 128 Resp: 77681
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 12.8 10.6 15.8





#32

Benzoic acid

Concen: 4.379 ng

RT: 9.992 min Scan# 1157

Delta R.T. -0.083 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

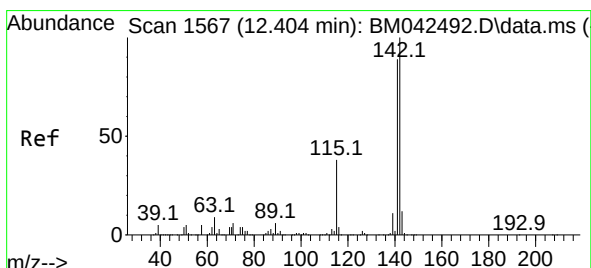
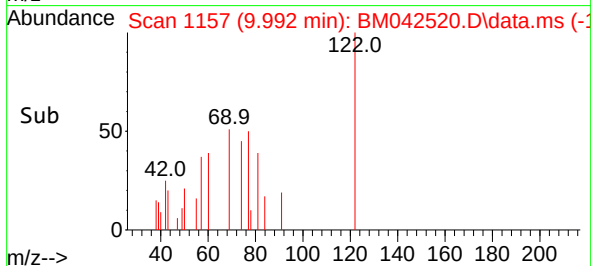
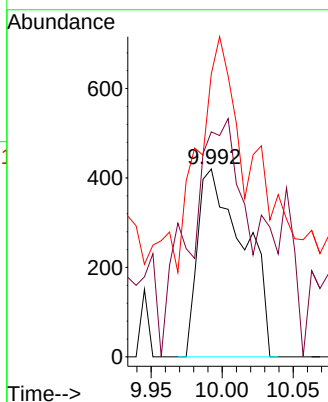
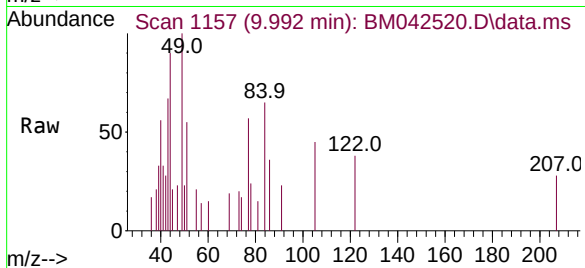
Instrument :

BNA_M

ClientSampleId :

A-6(0-2)

Tgt Ion:	122	Resp:	944
Ion	Ratio	Lower	Upper
122	100		
105	119.8	105.2	145.2
77	150.7	84.8	124.8#



#37

2-Methylnaphthalene

Concen: 2.489 ng

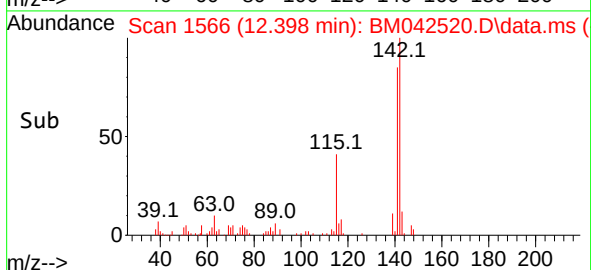
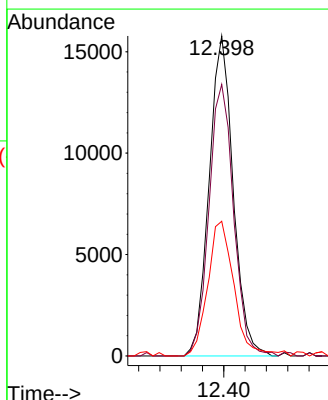
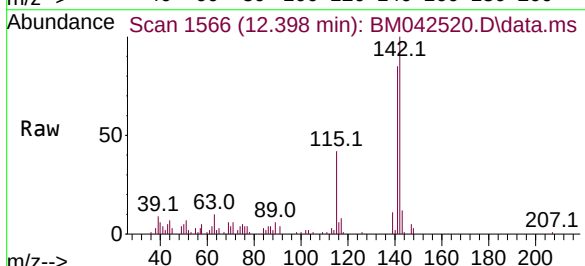
RT: 12.398 min Scan# 1566

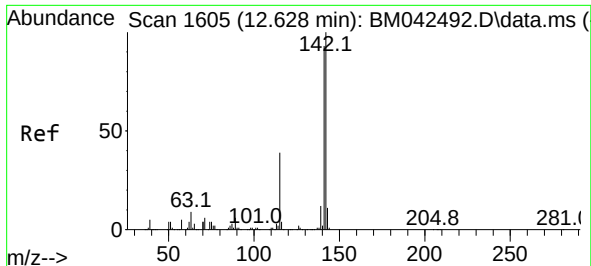
Delta R.T. -0.006 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

Tgt Ion:	142	Resp:	24711
Ion	Ratio	Lower	Upper
142	100		
141	84.8	70.9	106.3
115	42.1	30.2	45.2

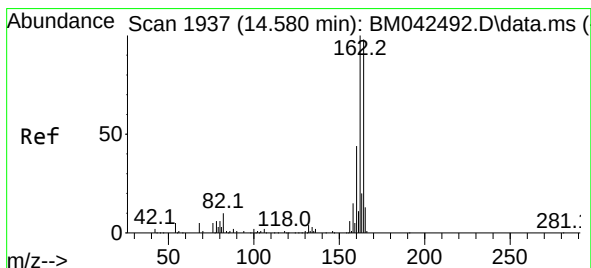
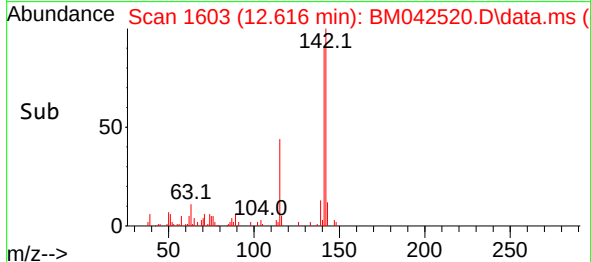
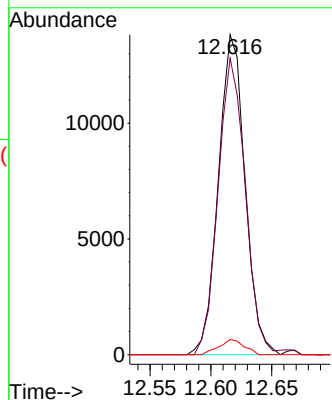
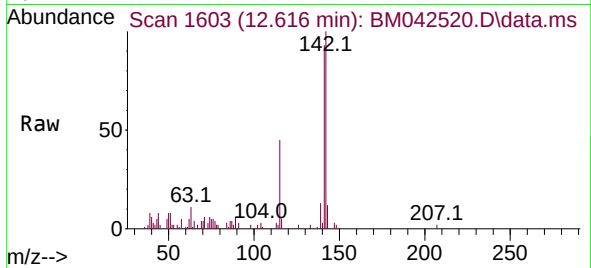




#38
1-Methylnaphthalene
Concen: 2.255 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

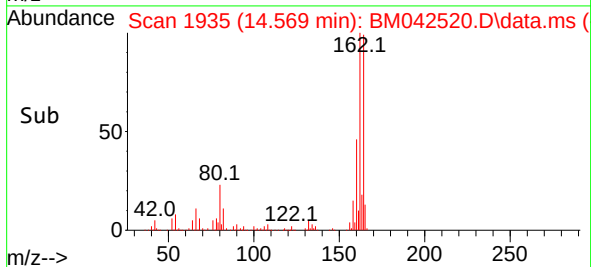
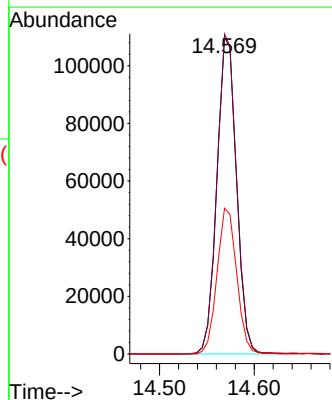
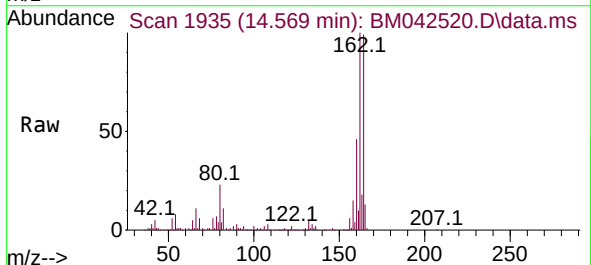
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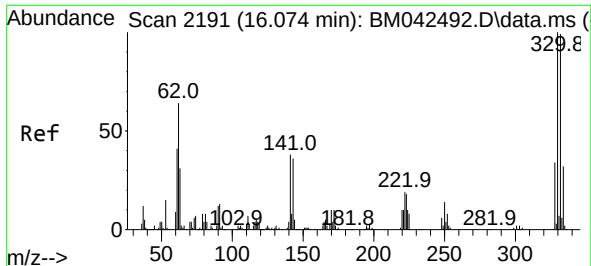
Tgt Ion:142 Resp: 21077
Ion Ratio Lower Upper
142 100
141 92.6 74.4 111.6
116 4.8 3.2 4.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.569 min Scan# 1935
Delta R.T. -0.011 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion:164 Resp: 157986
Ion Ratio Lower Upper
164 100
162 101.1 81.6 122.4
160 46.0 36.2 54.4

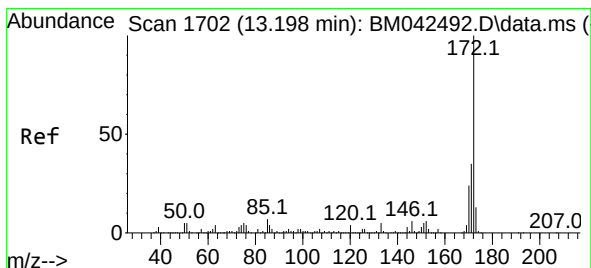
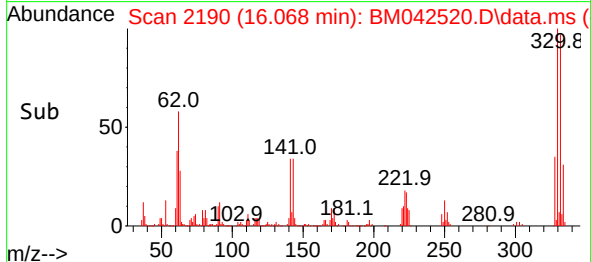
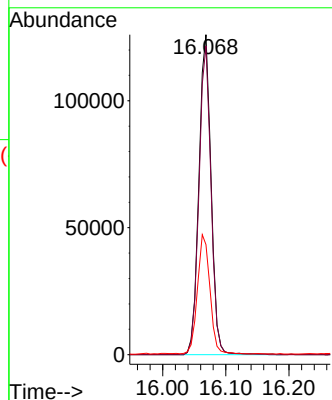
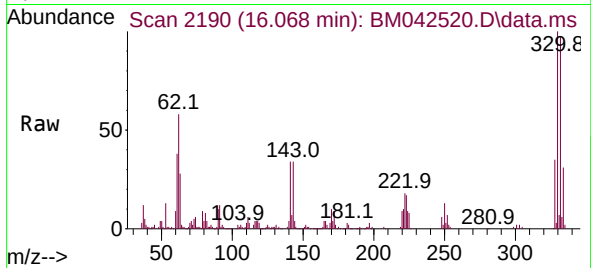




#42
2,4,6-Tribromophenol
Concen: 81.837 ng
RT: 16.068 min Scan# 2191
Delta R.T. -0.006 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

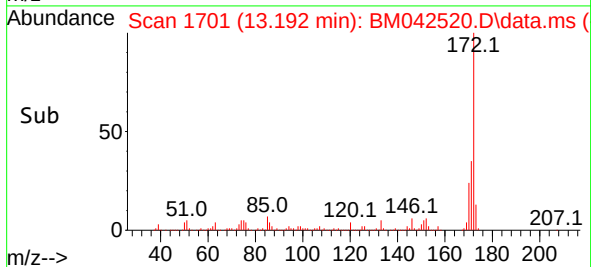
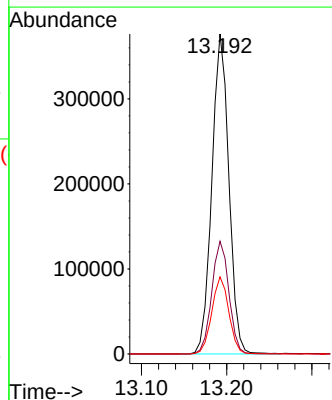
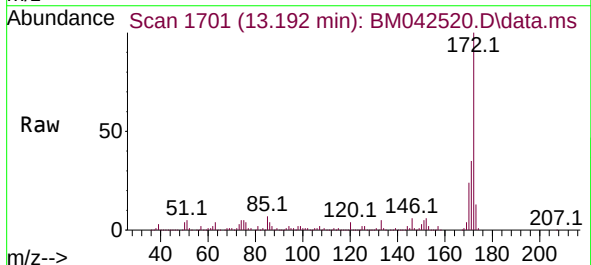
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A-6(0-2)

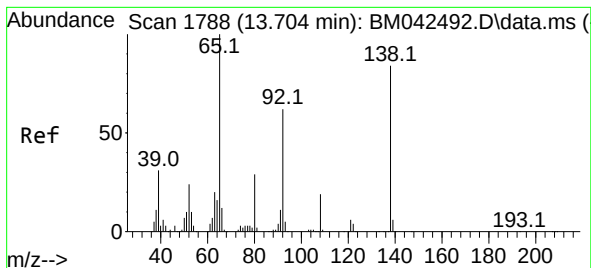
Tgt Ion:330 Resp: 168800
Ion Ratio Lower Upper
330 100
332 95.6 78.8 118.2
141 38.2 31.1 46.7



#45
2-Fluorobiphenyl
Concen: 44.557 ng
RT: 13.192 min Scan# 1701
Delta R.T. -0.006 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion:172 Resp: 523136
Ion Ratio Lower Upper
172 100
171 35.2 28.2 42.2
170 24.1 19.0 28.4

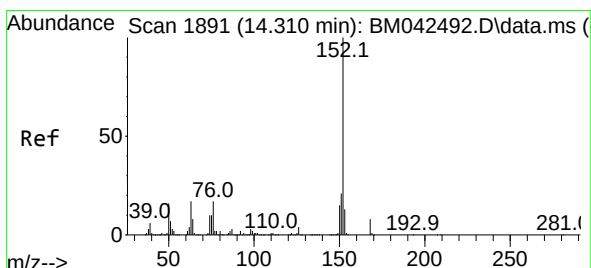
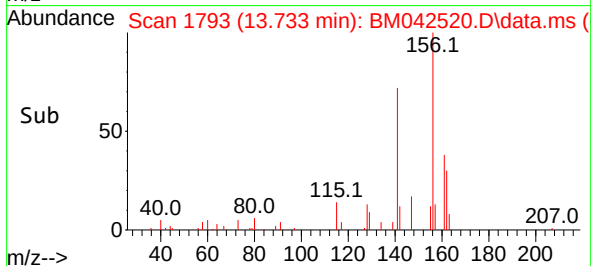
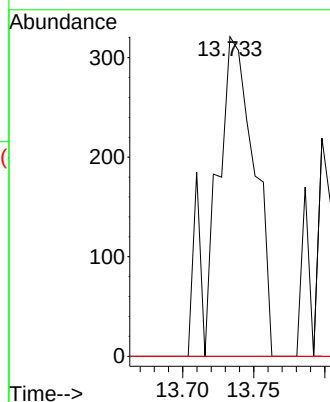
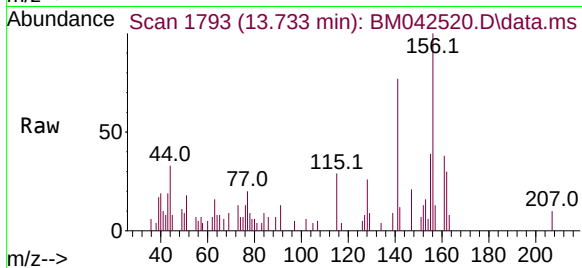




#48
2-Nitroaniline
Concen: 4.509 ng
RT: 13.733 min Scan# 1
Delta R.T. 0.029 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

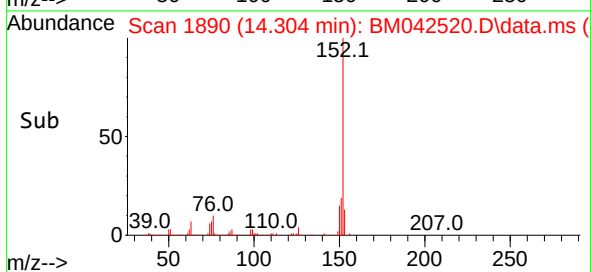
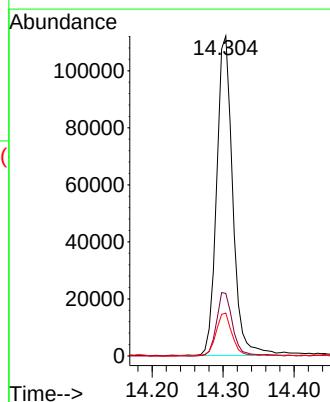
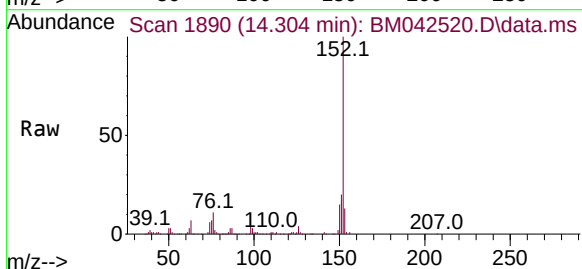
Instrument :
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A-6(0-2)

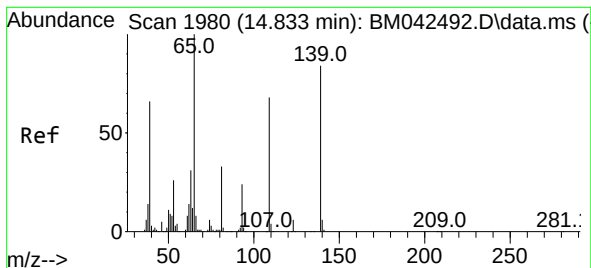
Tgt Ion: 65 Resp: 624
Ion Ratio Lower Upper
65 100
92 0.0 49.4 74.2#
138 0.0 66.9 100.3#



#49
Acenaphthylene
Concen: 11.967 ng
RT: 14.304 min Scan# 1890
Delta R.T. -0.006 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion: 152 Resp: 175597
Ion Ratio Lower Upper
152 100
151 19.5 16.4 24.6
153 13.4 10.4 15.6

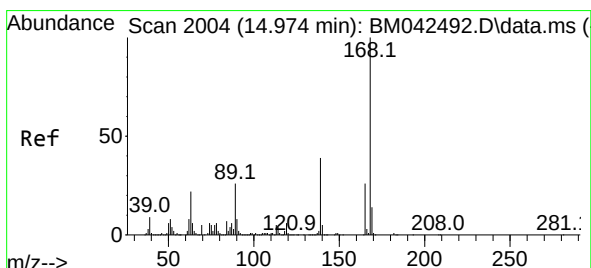
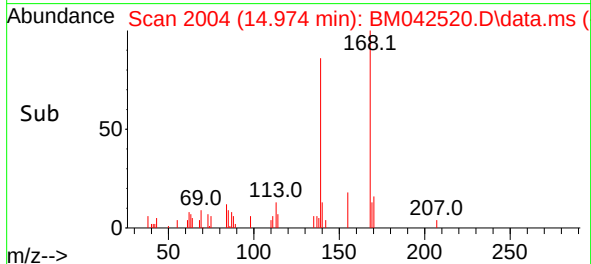
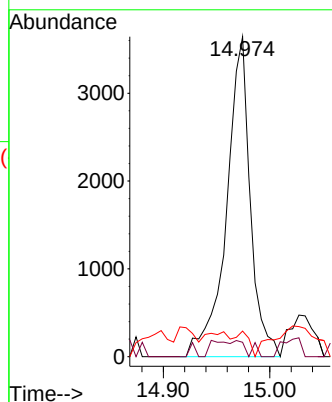
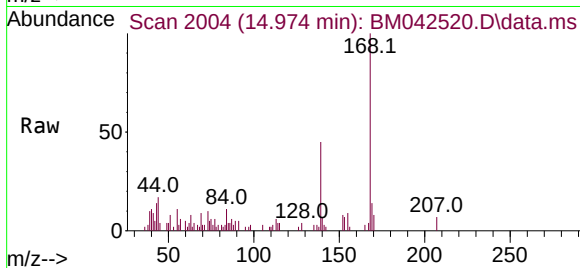




#56
4-Nitrophenol
Concen: 9.285 ng
RT: 14.974 min Scan# 2004
Delta R.T. 0.141 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

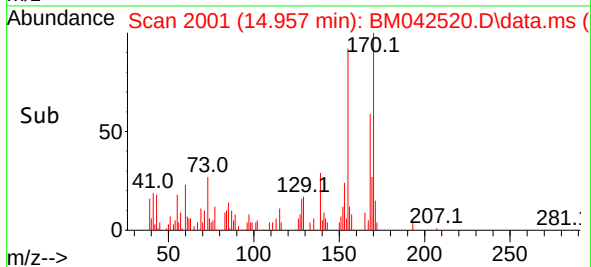
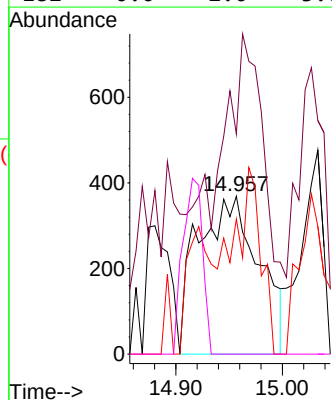
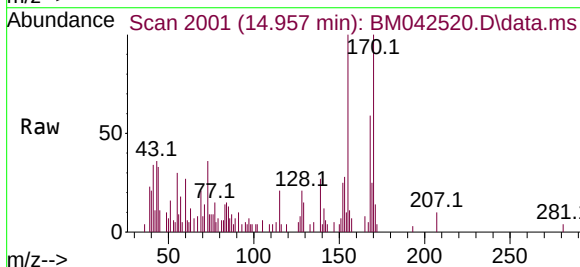
Instrument :
BNA_M
ClientSampleId :
A-6(0-2)

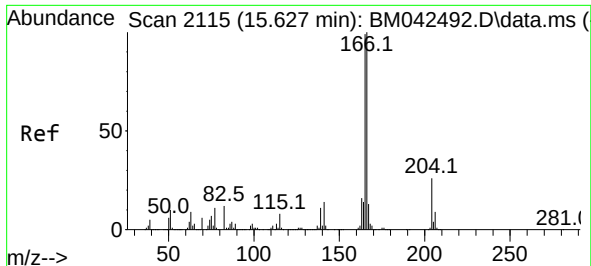
Tgt Ion:139 Resp: 5646
Ion Ratio Lower Upper
139 100
109 4.5 61.3 101.3#
65 8.0 100.2 140.2#



#57
2,4-Dinitrotoluene
Concen: 4.335 ng
RT: 14.957 min Scan# 2001
Delta R.T. -0.017 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion:165 Resp: 1464
Ion Ratio Lower Upper
165 100
63 139.3 66.7 100.1#
89 85.6 80.2 120.4
182 0.0 2.0 3.0#

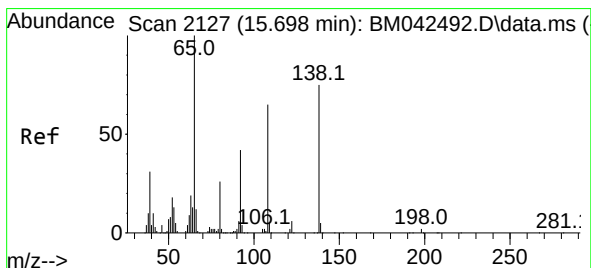
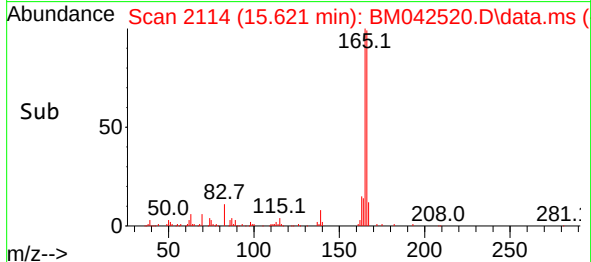
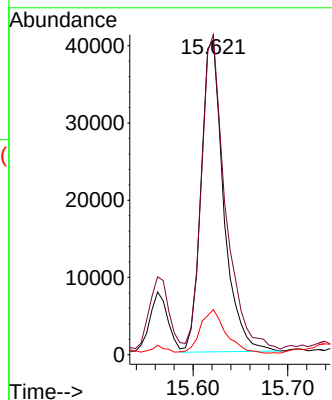
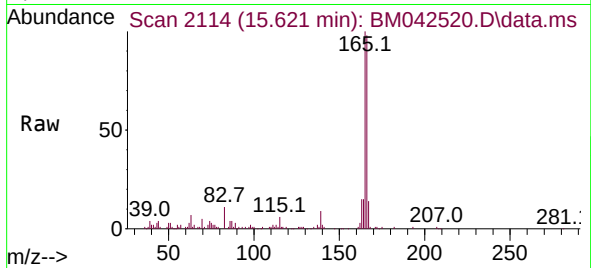




#58
Fluorene
Concen: 5.704 ng
RT: 15.621 min Scan# 2115
Delta R.T. -0.006 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

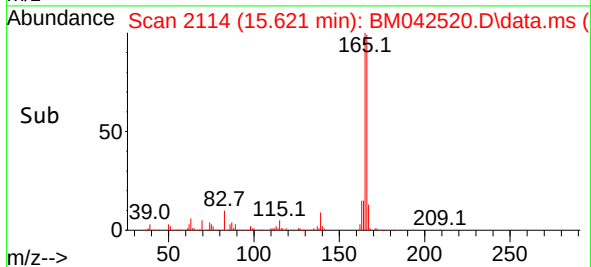
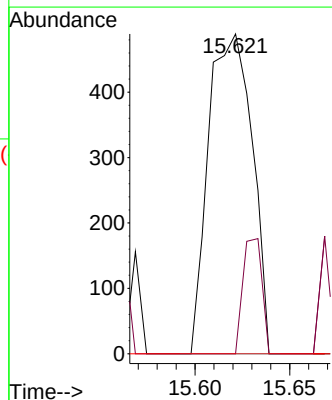
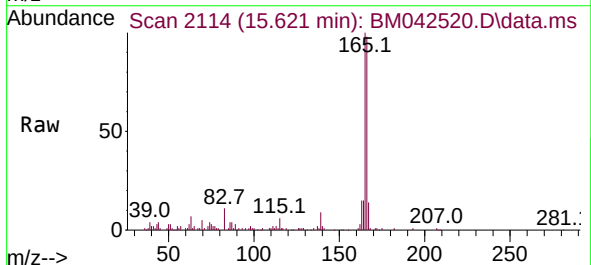
Instrument :
BNA_M
ClientSampleId :
A-6(0-2)

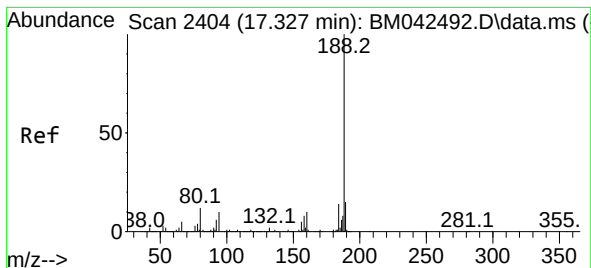
Tgt Ion:166 Resp: 66822
Ion Ratio Lower Upper
166 100
165 101.7 79.3 118.9
167 14.3 10.5 15.7



#62
4-Nitroaniline
Concen: 6.022 ng
RT: 15.621 min Scan# 2114
Delta R.T. -0.077 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion:138 Resp: 783
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: BM042520.D

Acq: 31 Oct 2023 20:46

Instrument :

BNA_M

ClientSampleId :

A-6(0-2)

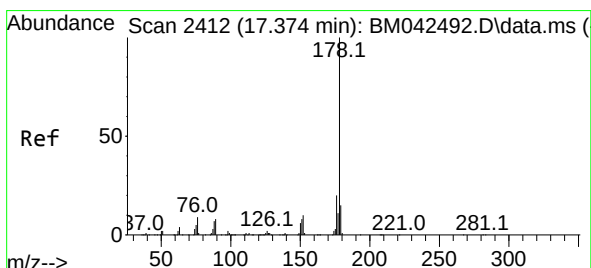
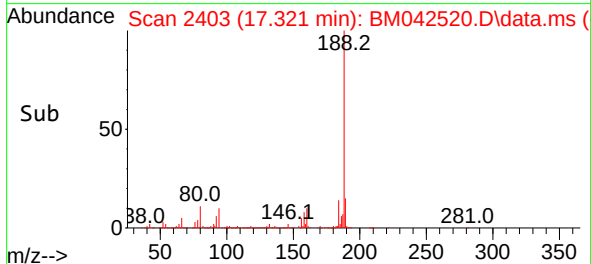
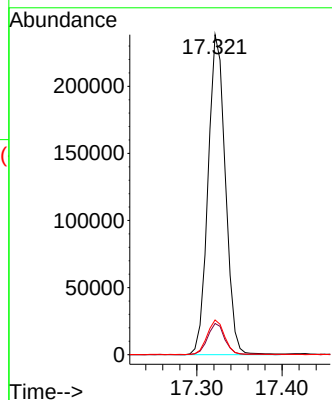
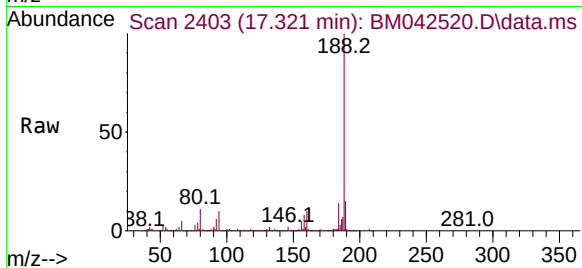
Tgt Ion:188 Resp: 336286

Ion Ratio Lower Upper

188 100

94 9.7 8.2 12.4

80 10.8 9.4 14.2



#71

Phenanthrene

Concen: 65.128 ng

RT: 17.368 min Scan# 2411

Delta R.T. -0.006 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

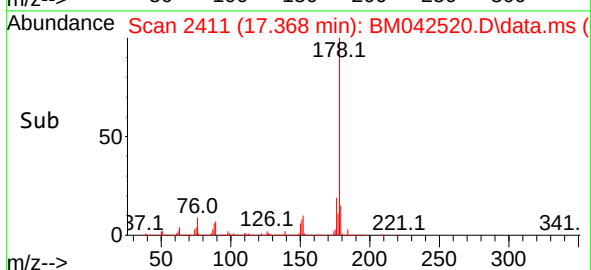
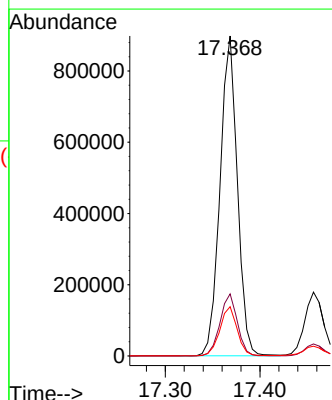
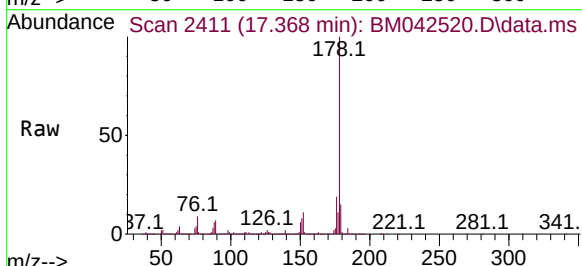
Tgt Ion:178 Resp: 1144557

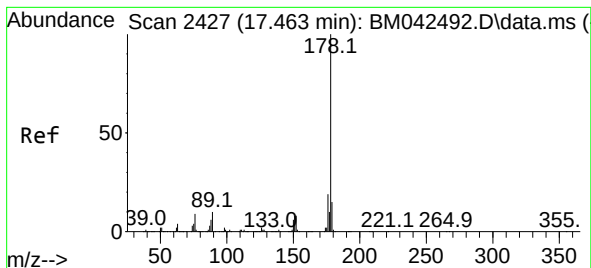
Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

179 15.4 12.2 18.4





#72

Anthracene

Concen: 14.186 ng

RT: 17.457 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

Instrument :

BNA_M

ClientSampleId :

A-6(0-2)

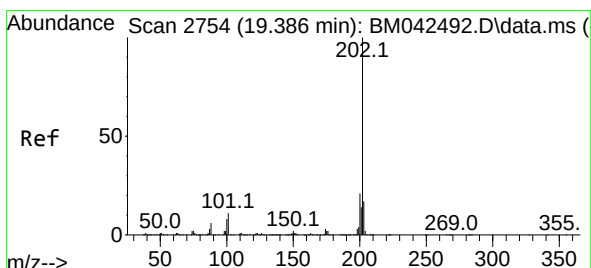
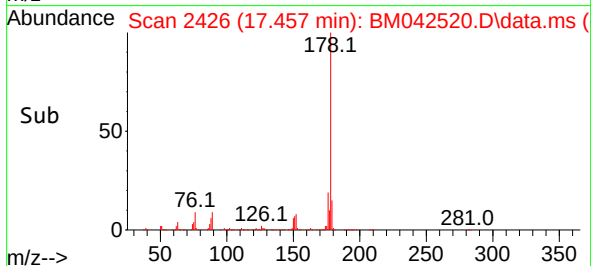
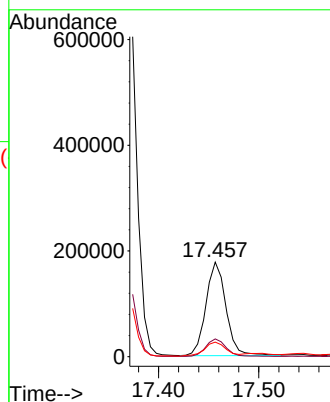
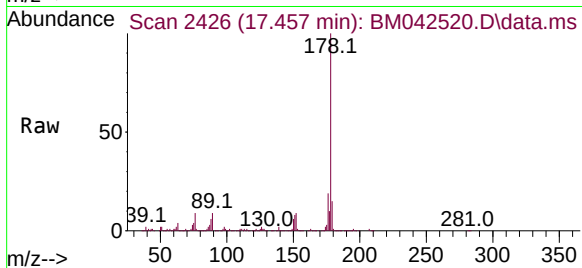
Tgt Ion:178 Resp: 246938

Ion Ratio Lower Upper

178 100

176 18.8 15.2 22.8

179 15.4 12.3 18.5



#75

Fluoranthene

Concen: 60.558 ng

RT: 19.380 min Scan# 2753

Delta R.T. -0.006 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

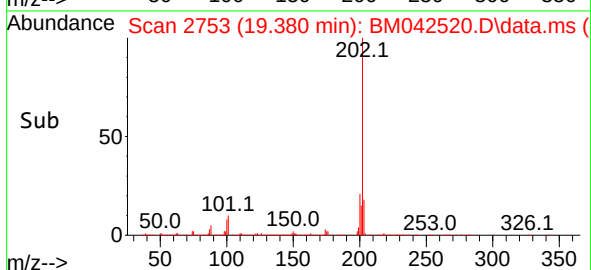
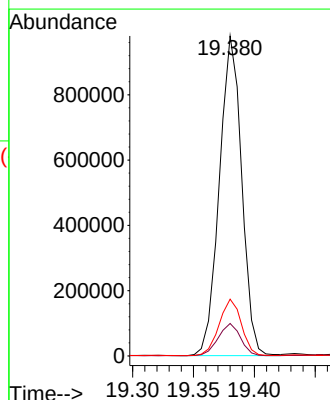
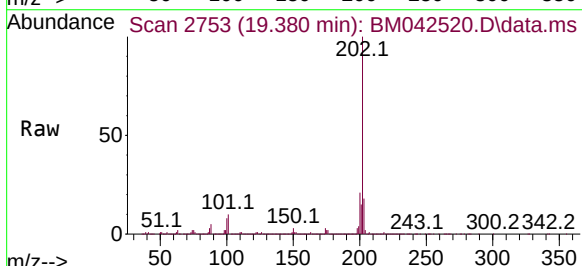
Tgt Ion:202 Resp: 1250146

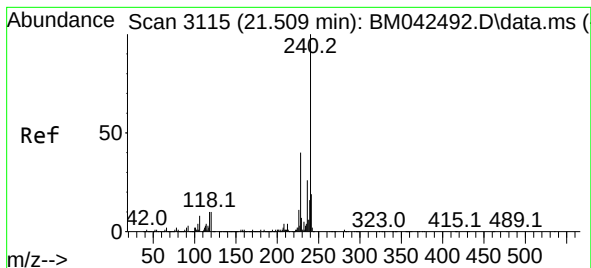
Ion Ratio Lower Upper

202 100

101 10.2 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: BM042520.D

Acq: 31 Oct 2023 20:46

Instrument :

BNA_M

ClientSampleId :

A-6(0-2)

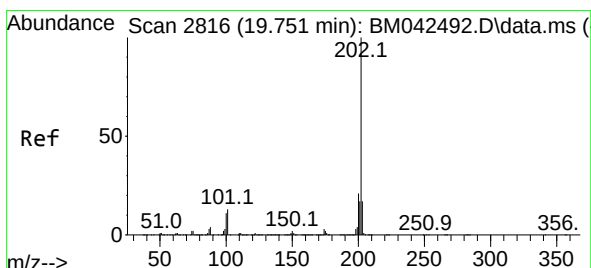
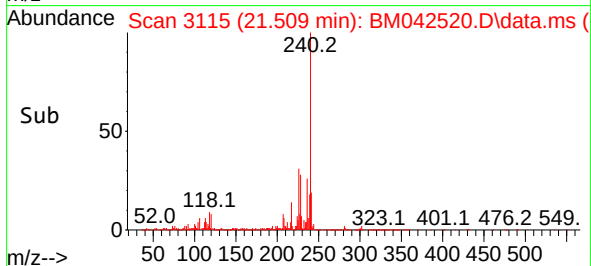
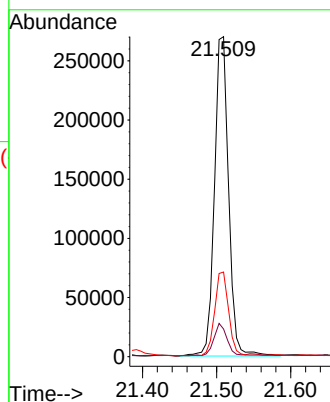
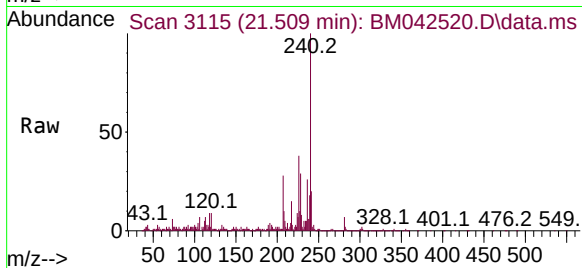
Tgt Ion:240 Resp: 356968

Ion Ratio Lower Upper

240 100

120 8.7 8.3 12.5

236 26.5 20.8 31.2



#78

Pyrene

Concen: 71.078 ng

RT: 19.751 min Scan# 2816

Delta R.T. -0.000 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

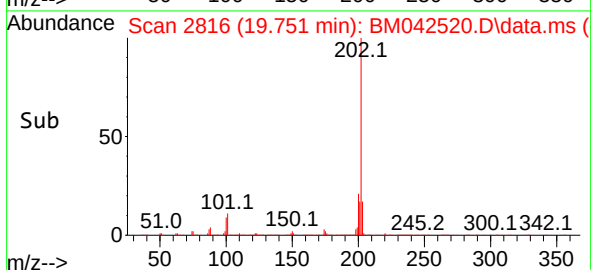
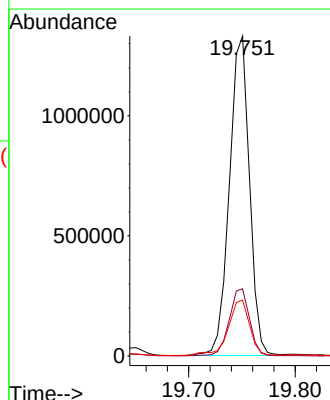
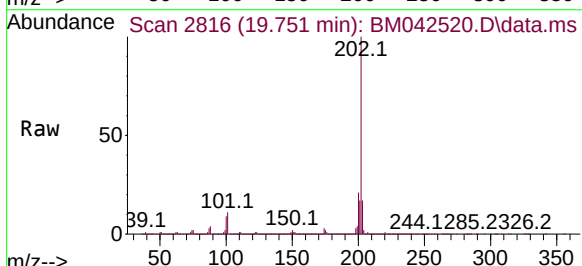
Tgt Ion:202 Resp: 1742236

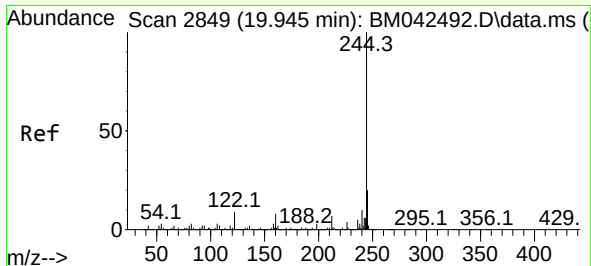
Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

203 17.4 13.7 20.5

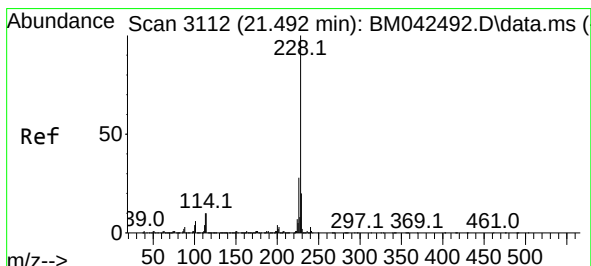
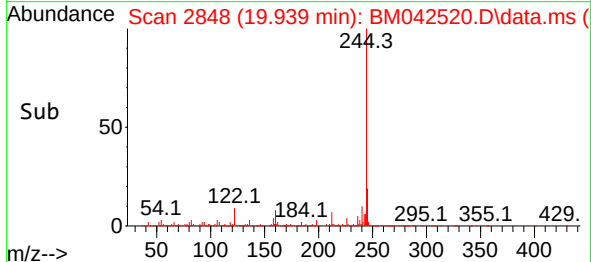
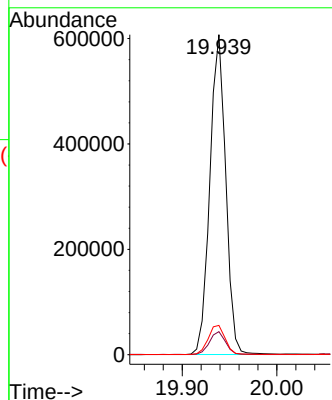
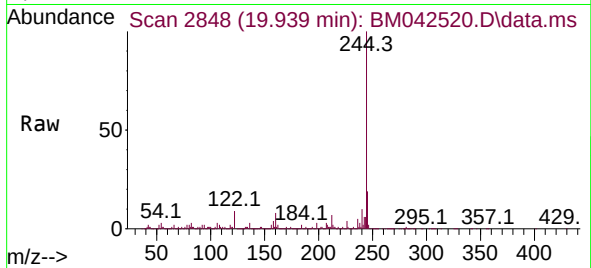




#79
 Terphenyl-d14
 Concen: 33.567 ng
 RT: 19.939 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM042520.D
 Acq: 31 Oct 2023 20:46

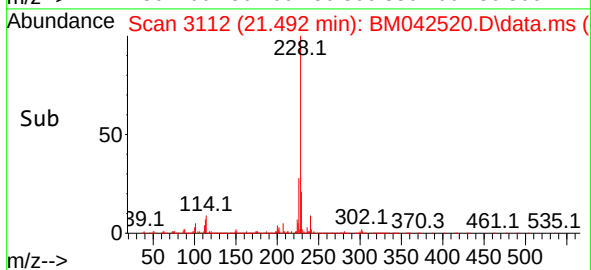
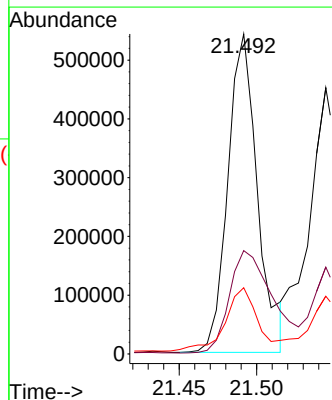
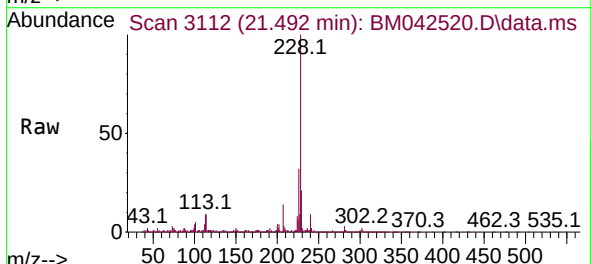
Instrument :
 BNA_M
 ClientSampleId :
 A-6(0-2)

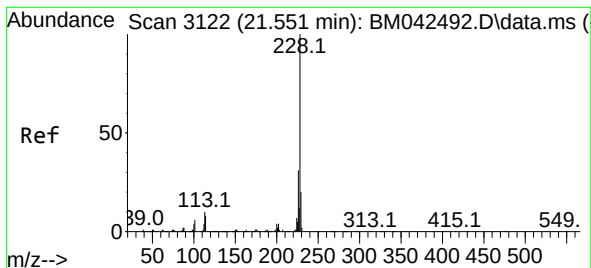
Tgt Ion:244 Resp: 706678
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.4 8.2
 122 9.2 7.2 10.8



#81
 Benzo(a)anthracene
 Concen: 31.748 ng
 RT: 21.492 min Scan# 3112
 Delta R.T. -0.000 min
 Lab File: BM042520.D
 Acq: 31 Oct 2023 20:46

Tgt Ion:228 Resp: 721061
 Ion Ratio Lower Upper
 228 100
 226 32.3 22.3 33.5
 229 20.7 15.8 23.8





#83

Chrysene

Concen: 27.376 ng

RT: 21.545 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

Instrument :

BNA_M

ClientSampleId :

A-6(0-2)

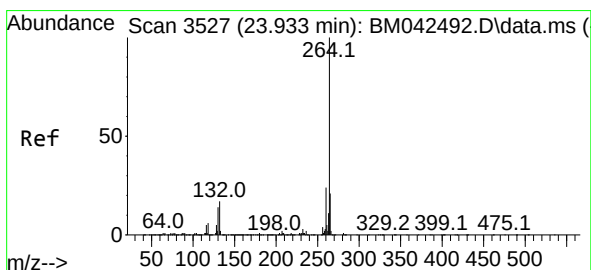
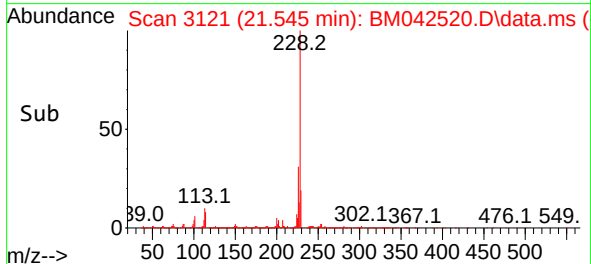
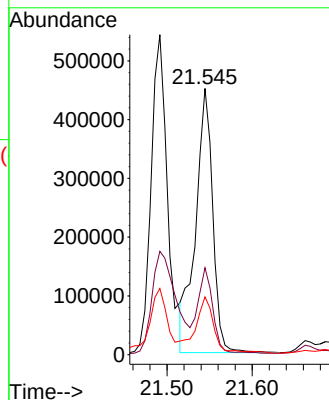
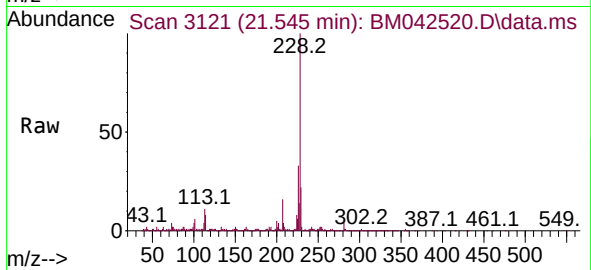
Tgt Ion:228 Resp: 631589

Ion Ratio Lower Upper

228 100

226 32.6 24.4 36.6

229 21.7 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3526

Delta R.T. -0.006 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

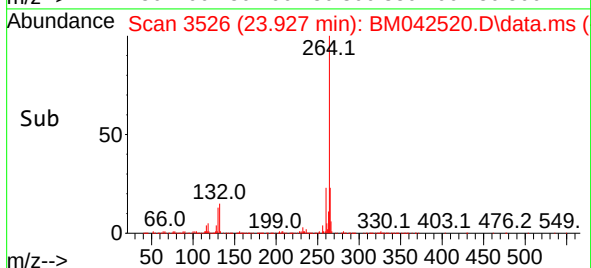
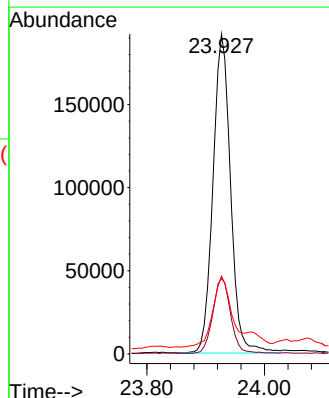
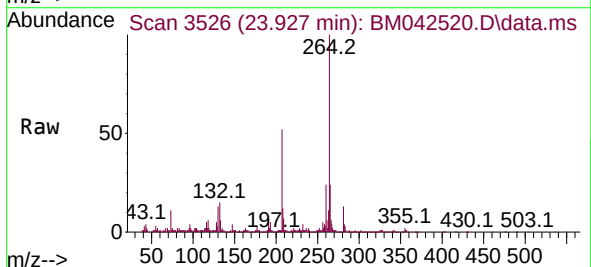
Tgt Ion:264 Resp: 399067

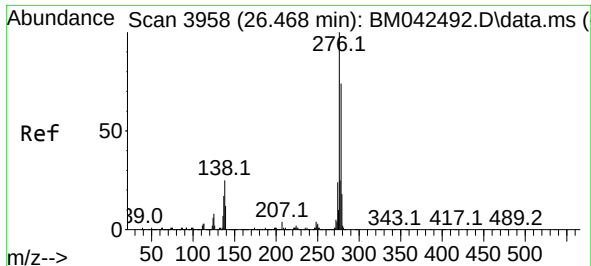
Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

265 24.3 18.7 28.1

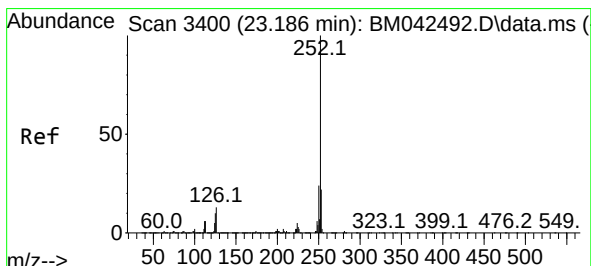
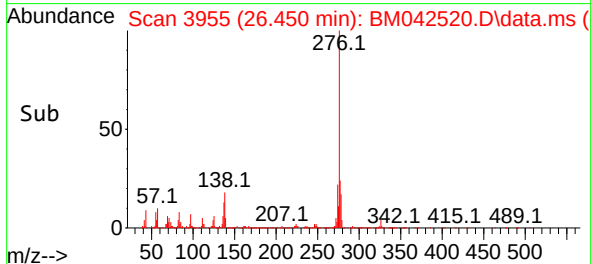
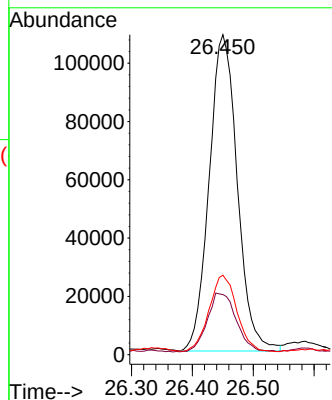
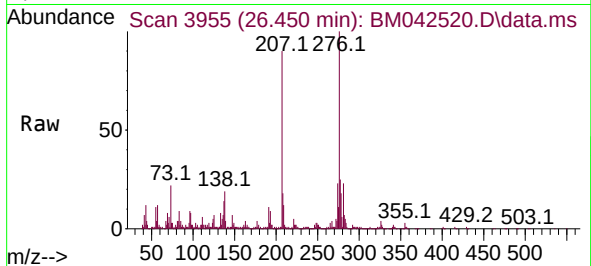




#87
Indeno(1,2,3-cd)pyrene
Concen: 14.671 ng
RT: 26.450 min Scan# 3955
Delta R.T. -0.018 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

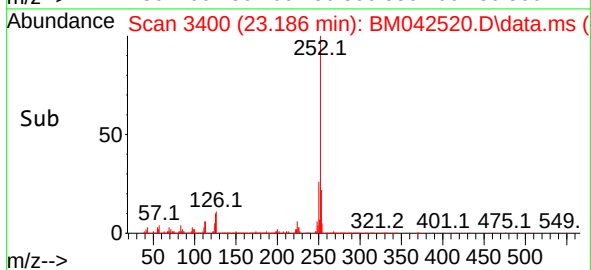
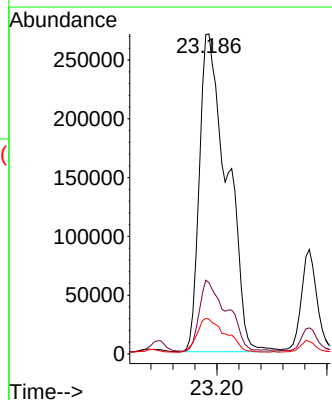
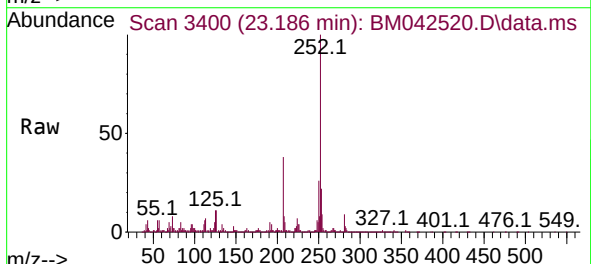
Instrument :
BNA_M
ClientSampleId :
A-6(0-2)

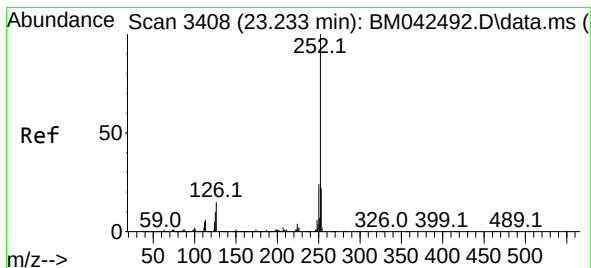
Tgt Ion:276 Resp: 348450
Ion Ratio Lower Upper
276 100
138 19.3 20.6 31.0#
277 23.8 19.5 29.3



#88
Benzo(b)fluoranthene
Concen: 42.548 ng
RT: 23.186 min Scan# 3400
Delta R.T. -0.000 min
Lab File: BM042520.D
Acq: 31 Oct 2023 20:46

Tgt Ion:252 Resp: 945957
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.9 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 38.183 ng

RT: 23.186 min Scan# 34

Delta R.T. -0.047 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

Instrument :

BNA_M

ClientSampleId :

A-6(0-2)

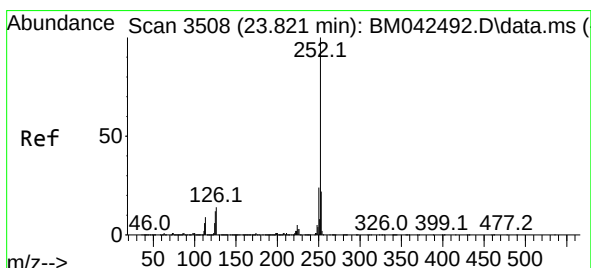
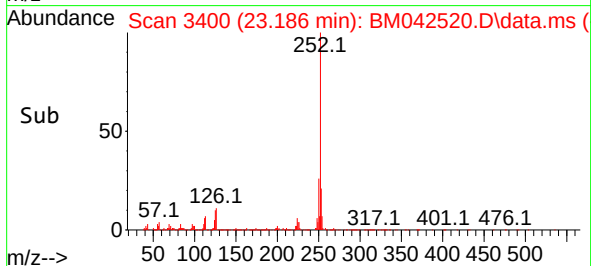
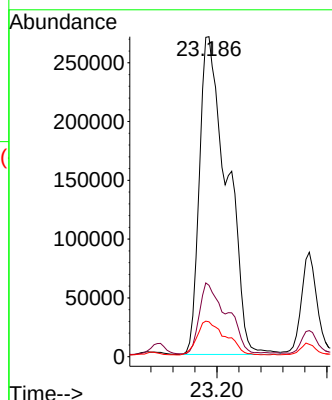
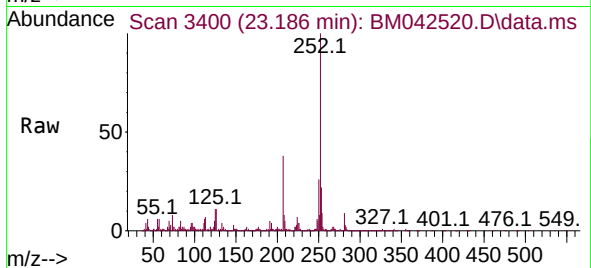
Tgt Ion:252 Resp: 945957

Ion Ratio Lower Upper

252 100

253 22.3 17.6 26.4

125 10.9 8.2 12.4



#90

Benzo(a)pyrene

Concen: 27.399 ng

RT: 23.821 min Scan# 3508

Delta R.T. -0.000 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

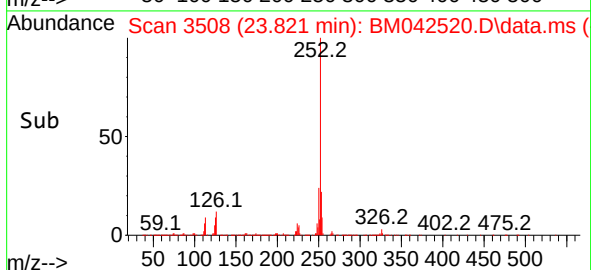
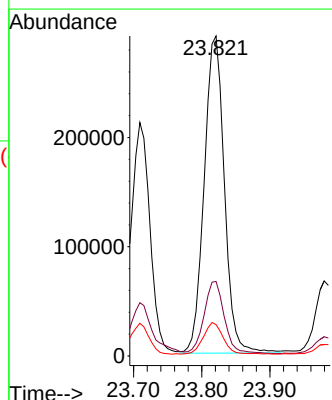
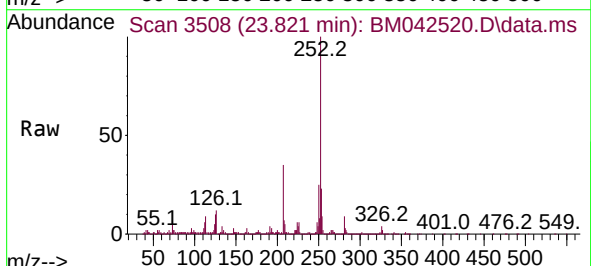
Tgt Ion:252 Resp: 599733

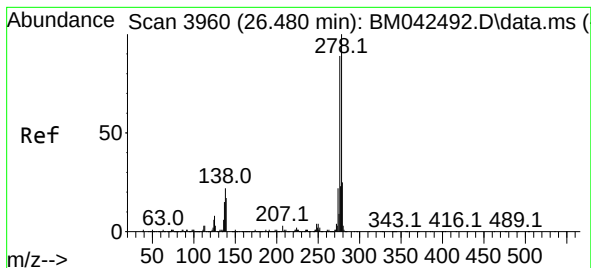
Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 9.8 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 7.862 ng

RT: 26.462 min Scan# 3957

Delta R.T. -0.018 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

Instrument :

BNA_M

ClientSampleId :

A-6(0-2)

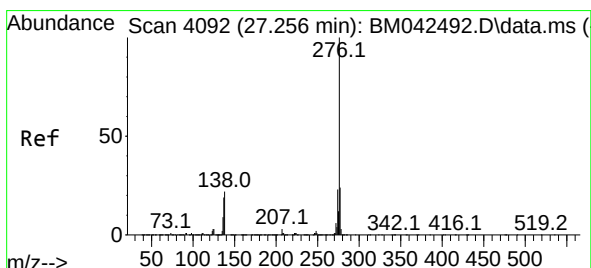
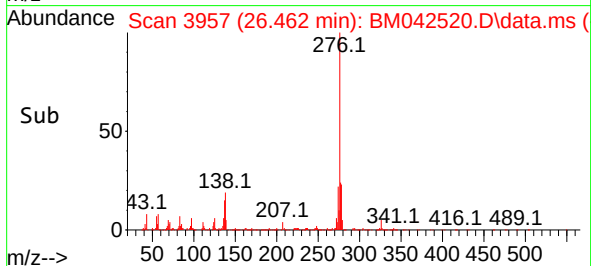
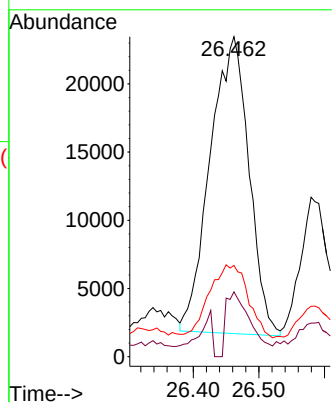
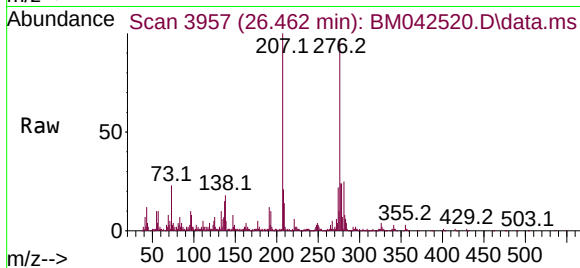
Tgt Ion:278 Resp: 89366

Ion Ratio Lower Upper

278 100

139 20.2 13.4 20.2#

279 28.5 19.7 29.5



#92

Benzo(g,h,i)perylene

Concen: 18.146 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.012 min

Lab File: BM042520.D

Acq: 31 Oct 2023 20:46

Tgt Ion:276 Resp: 379857

Ion Ratio Lower Upper

276 100

277 23.5 19.2 28.8

138 20.3 17.3 25.9

