

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042524.D
 Acq On : 31 Oct 2023 23:12
 Operator : MA/JU
 Sample : 04938-15 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-8(0-2)

Quant Time: Nov 01 01:52:01 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)

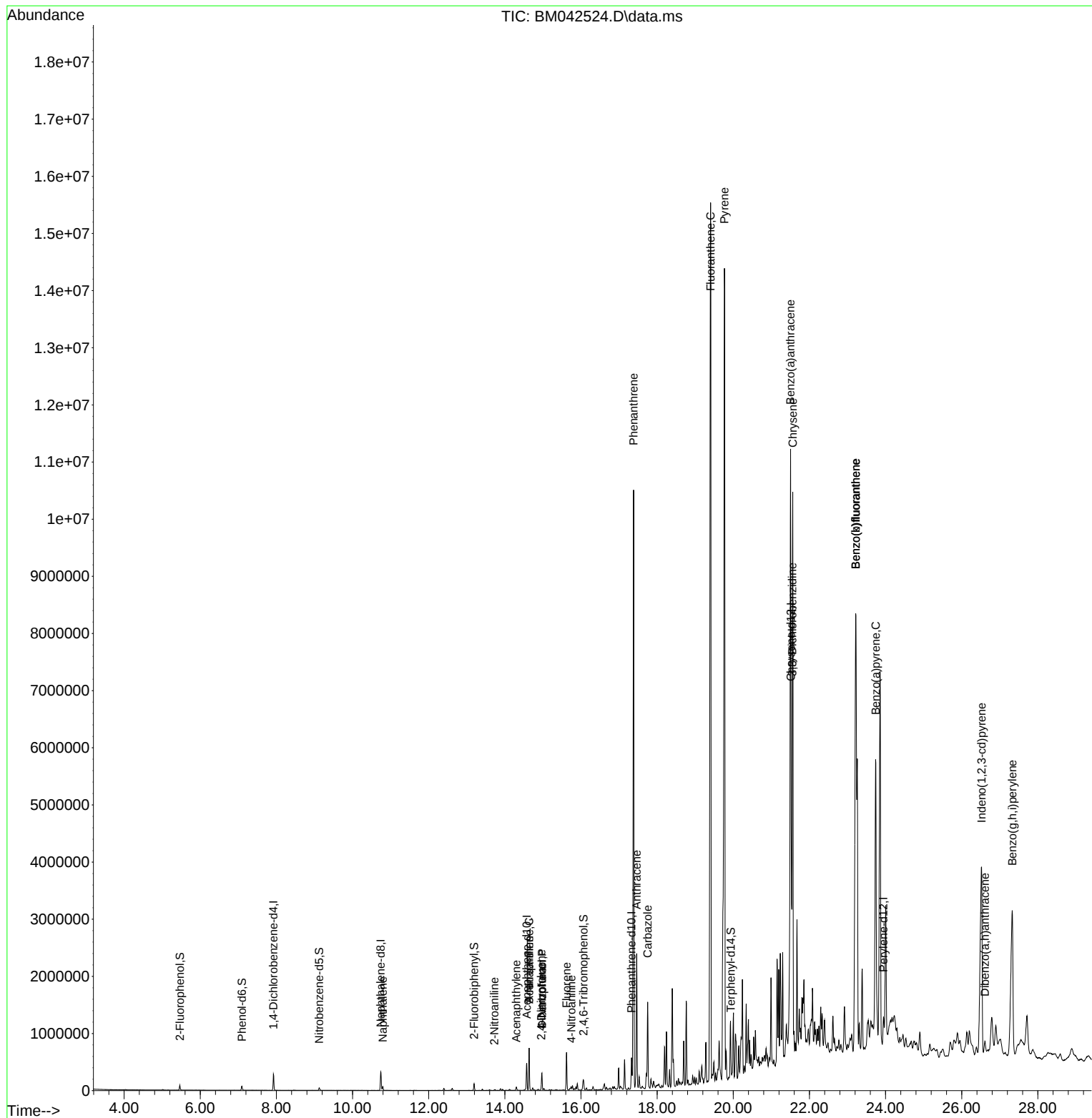
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	67169	20.000	ng	0.00
21) Naphthalene-d8	10.739	136	247595	20.000	ng	-0.01
39) Acenaphthene-d10	14.574	164	147741	20.000	ng	0.00
64) Phenanthrene-d10	17.327	188	325650	20.000	ng	0.00
76) Chrysene-d12	21.515	240	371461	20.000	ng	0.00
86) Perylene-d12	23.944	264	397982	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	32695	7.856	ng	0.00
7) Phenol-d6	7.093	99	39236	6.874	ng	0.00
23) Nitrobenzene-d5	9.122	82	26142	4.922	ng	-0.01
42) 2,4,6-Tribromophenol	16.068	330	14707	7.625	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	54705	4.982	ng	0.00
79) Terphenyl-d14	19.939	244	94908	4.332	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	10.792	128	51350	4.014	ng	98
48) 2-Nitroaniline	13.722	65	59	4.367	ng	# 13
49) Acenaphthylene	14.304	152	43354	3.160	ng	98
52) Acenaphthene	14.639	154	240261	28.852	ng	99
53) 3-Nitroaniline	14.639	138	237	4.436	ng	# 1
55) Dibenzofuran	14.974	168	183013	13.517	ng	100
56) 4-Nitrophenol	14.974	139	69360	37.578	ng	# 1
57) 2,4-Dinitrotoluene	14.957	165	204	4.025	ng	# 1
58) Fluorene	15.621	166	269115	24.566	ng	99
62) 4-Nitroaniline	15.745	138	124	5.787	ng	# 12
71) Phenanthrene	17.380	178	6549501	384.852	ng	99
72) Anthracene	17.462	178	1299302	77.081	ng	100
73) Carbazole	17.751	167	865335	63.104	ng	100
75) Fluoranthene	19.404	202	12872733	643.934	ng	96
78) Pyrene	19.768	202	11606700	455.041	ng	97
81) Benzo(a)anthracene	21.503	228	6377132	269.825	ng	98
82) 3,3'-Dichlorobenzidine	21.550	252	28565	3.803	ng	# 1
83) Chrysene	21.562	228	5483979	228.427	ng	96
87) Indeno(1,2,3-cd)pyrene	26.521	276	4136846	174.647	ng	# 90
88) Benzo(b)fluoranthene	23.215	252	8699376	392.352	ng	97
89) Benzo(k)fluoranthene	23.215	252	8699376	352.103	ng	# 96
90) Benzo(a)pyrene	23.739	252	3835722	175.715	ng	98
91) Dibenzo(a,h)anthracene	26.609	278	270334	15.435	ng	93
92) Benzo(g,h,i)perylene	27.327	276	3902236	186.919	ng	# 93

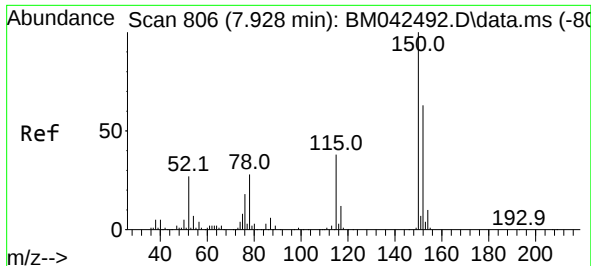
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042524.D
Acq On : 31 Oct 2023 23:12
Operator : MA/JU
Sample : 04938-15 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

Quant Time: Nov 01 01:52:01 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

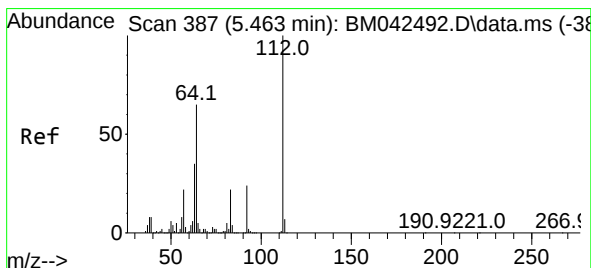
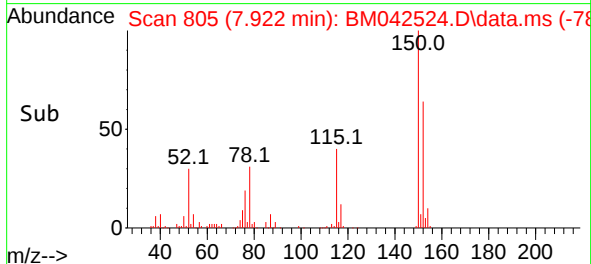
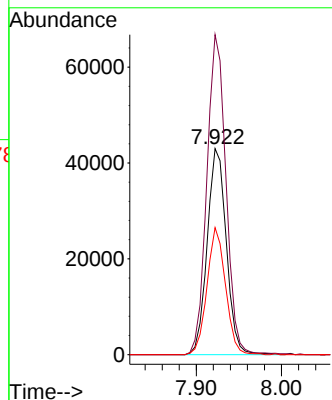
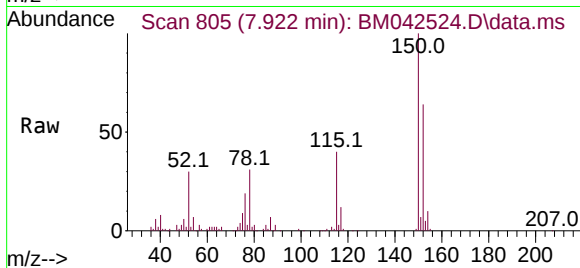




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

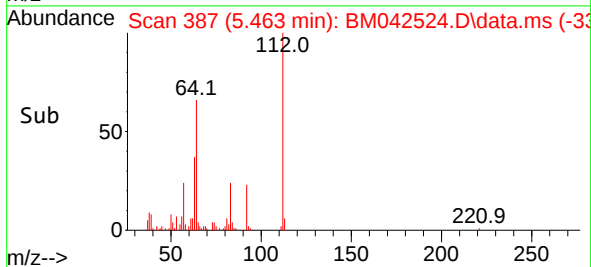
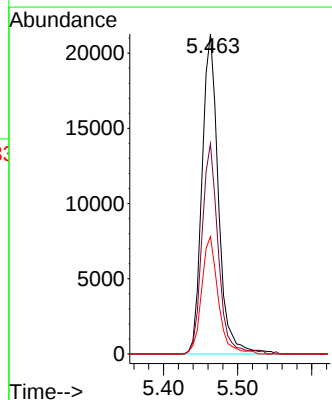
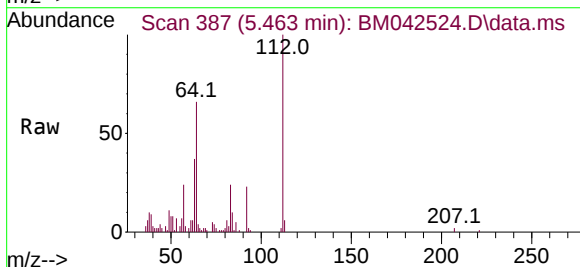
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

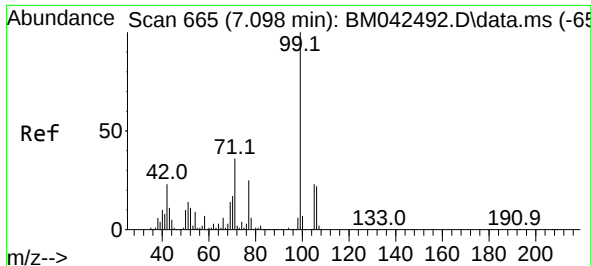
Tgt Ion:152 Resp: 67169
Ion Ratio Lower Upper
152 100
150 155.3 127.4 191.0
115 61.7 47.9 71.9



#5
2-Fluorophenol
Concen: 7.856 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:112 Resp: 32695
Ion Ratio Lower Upper
112 100
64 65.7 52.1 78.1
63 36.7 28.3 42.5

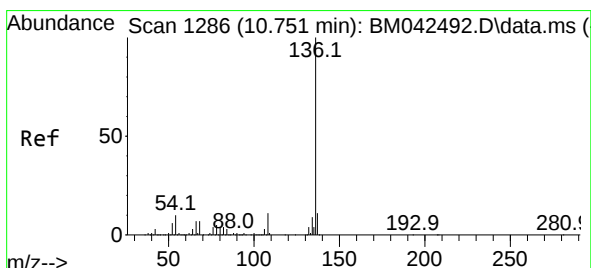
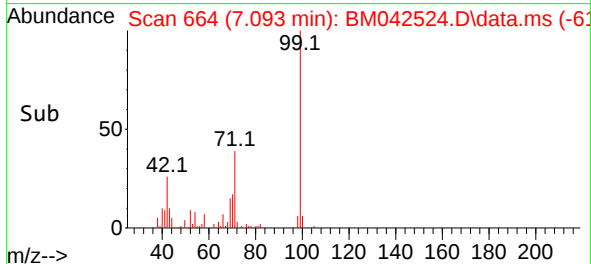
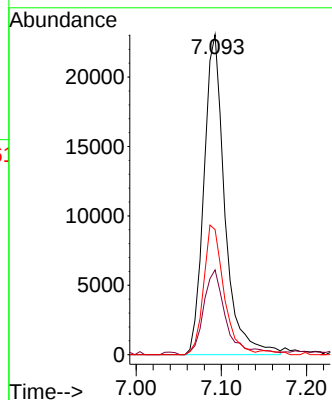
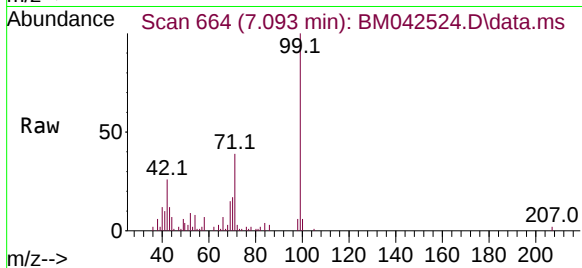




#7
Phenol-d6
Concen: 6.874 ng
RT: 7.093 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

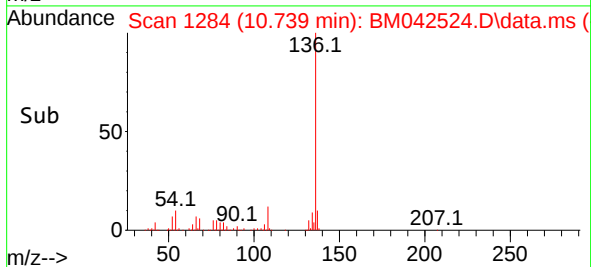
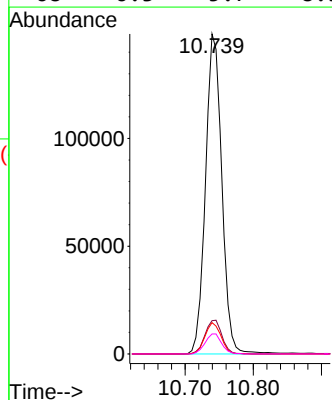
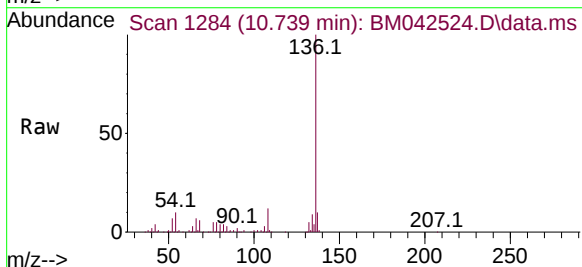
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

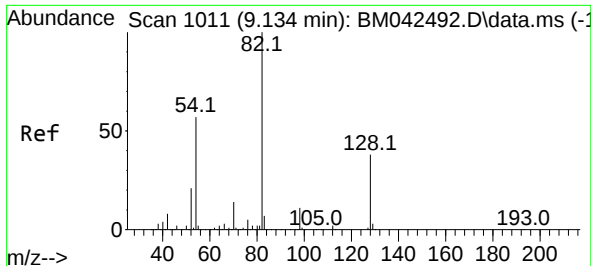
Tgt Ion: 99 Resp: 39236
Ion Ratio Lower Upper
99 100
42 26.5 18.7 28.1
71 39.1 29.1 43.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.012 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion: 136 Resp: 247595
Ion Ratio Lower Upper
136 100
137 10.4 9.0 13.6
54 9.8 8.0 12.0
68 6.3 5.7 8.5





#23

Nitrobenzene-d5

Concen: 4.922 ng

RT: 9.122 min Scan# 1011

Delta R.T. -0.012 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

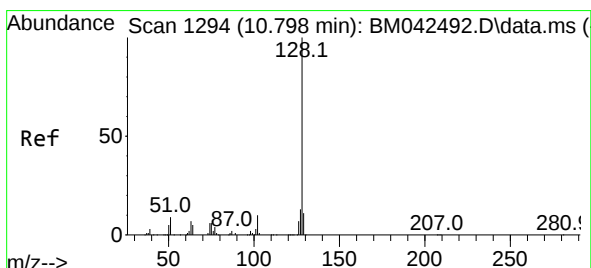
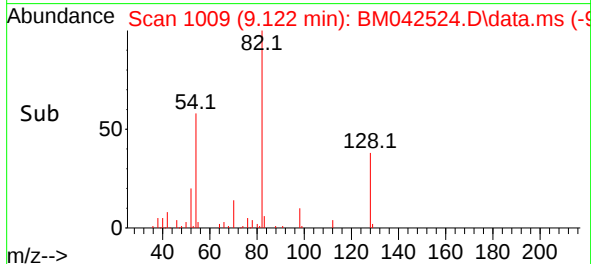
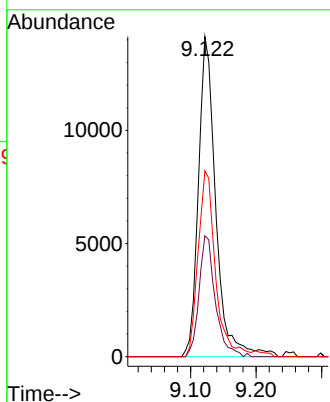
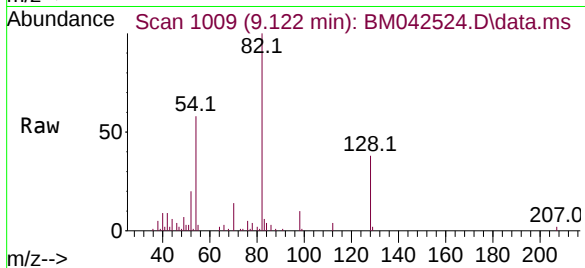
Tgt Ion: 82 Resp: 26142

Ion Ratio Lower Upper

82 100

128 37.8 30.7 46.1

54 58.0 45.3 67.9



#31

Naphthalene

Concen: 4.014 ng

RT: 10.792 min Scan# 1293

Delta R.T. -0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

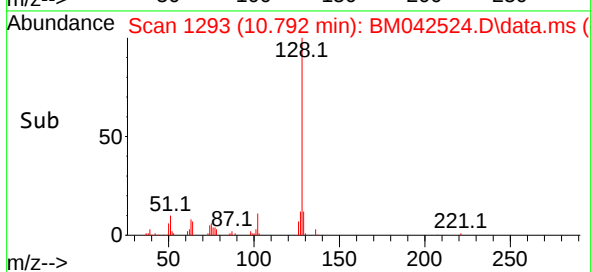
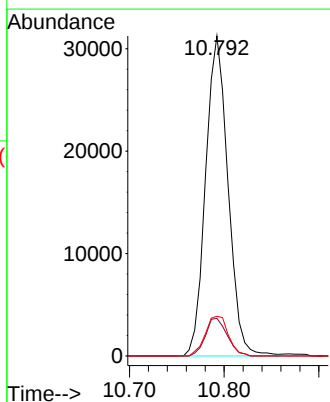
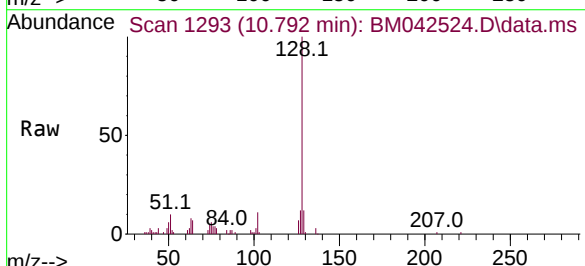
Tgt Ion: 128 Resp: 51350

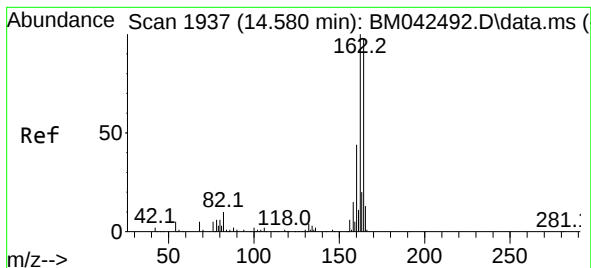
Ion Ratio Lower Upper

128 100

129 11.7 8.8 13.2

127 12.4 10.6 15.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.574 min Scan# 1936

Delta R.T. -0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

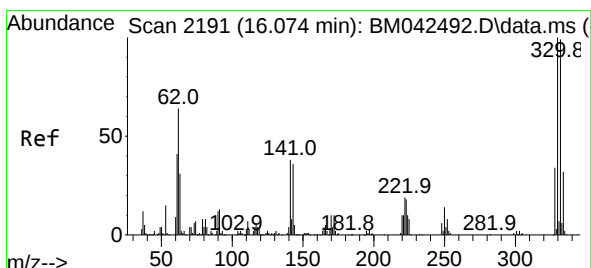
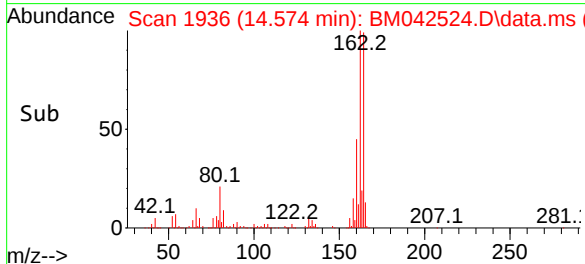
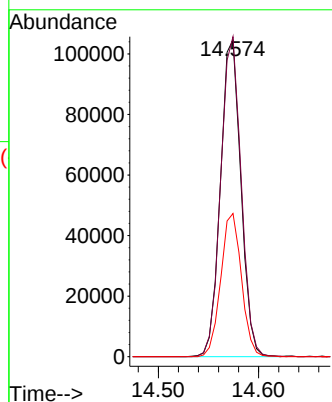
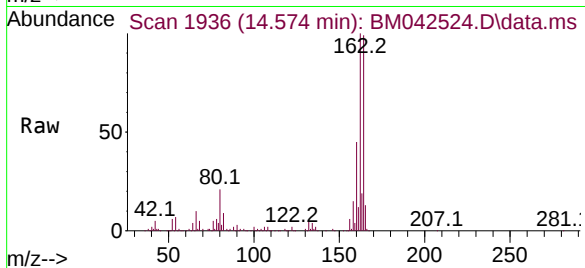
Tgt Ion:164 Resp: 147741

Ion Ratio Lower Upper

164 100

162 101.0 81.6 122.4

160 45.2 36.2 54.4



#42

2,4,6-Tribromophenol

Concen: 7.625 ng

RT: 16.068 min Scan# 2190

Delta R.T. -0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

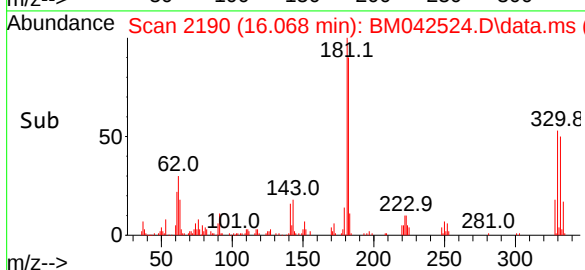
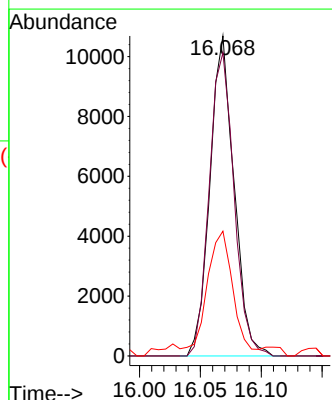
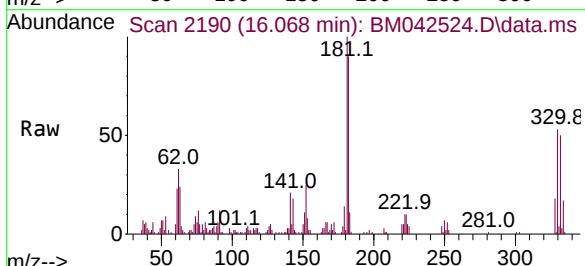
Tgt Ion:330 Resp: 14707

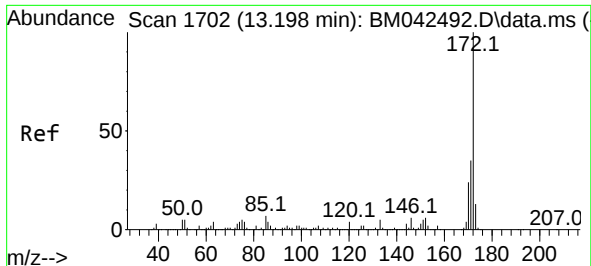
Ion Ratio Lower Upper

330 100

332 97.3 78.8 118.2

141 42.4 31.1 46.7

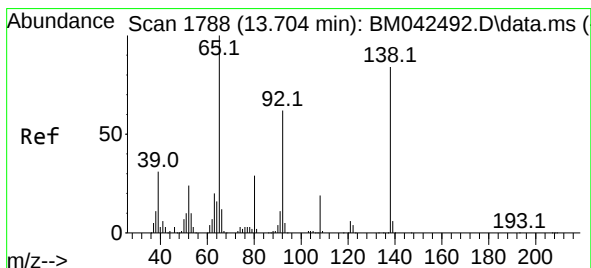
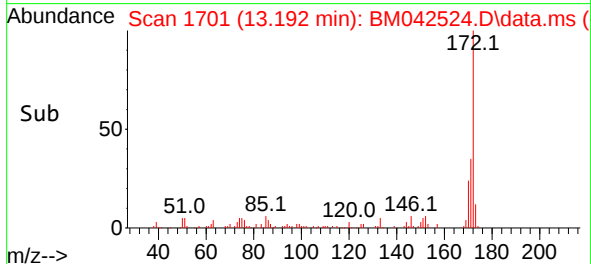
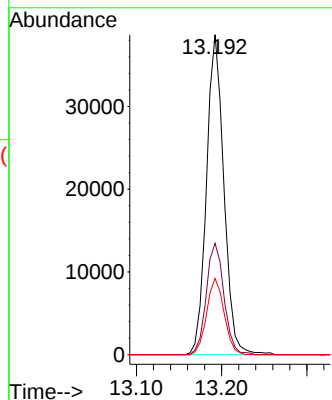
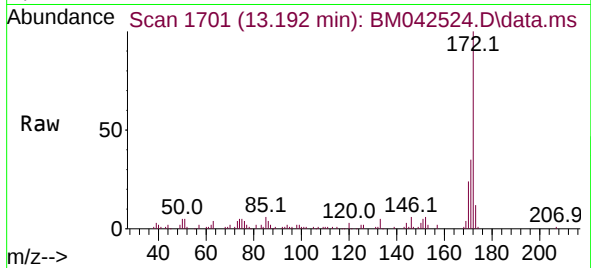




#45
2-Fluorobiphenyl
Concen: 4.982 ng
RT: 13.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

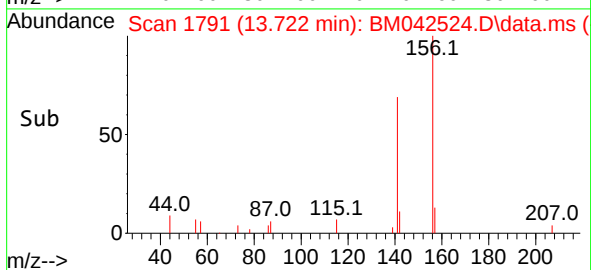
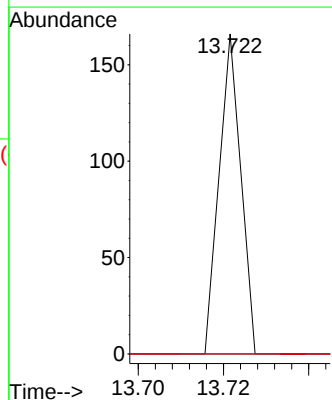
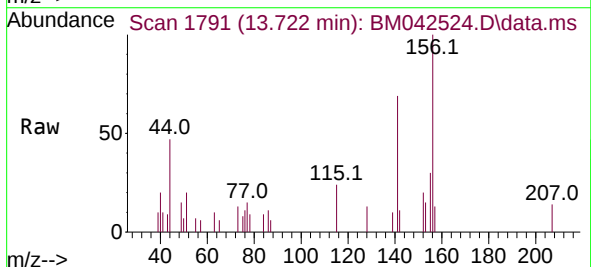
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

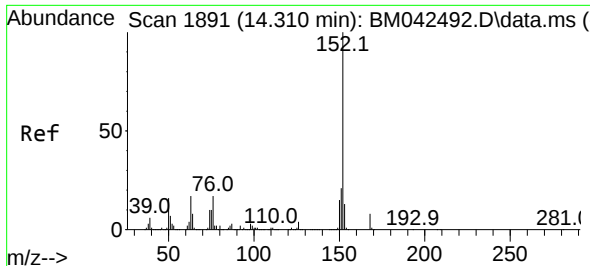
Tgt Ion:172 Resp: 54705
Ion Ratio Lower Upper
172 100
171 34.8 28.2 42.2
170 23.8 19.0 28.4



#48
2-Nitroaniline
Concen: 4.367 ng
RT: 13.722 min Scan# 1791
Delta R.T. 0.018 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion: 65 Resp: 59
Ion Ratio Lower Upper
65 100
92 0.0 49.4 74.2#
138 0.0 66.9 100.3#

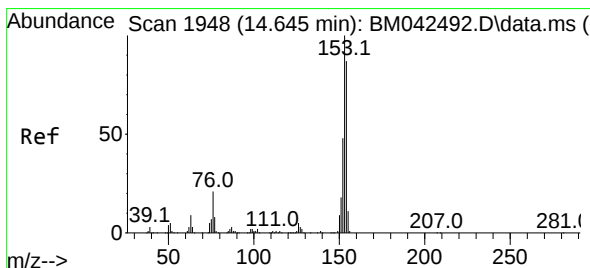
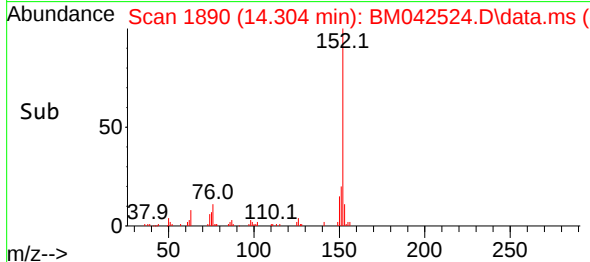
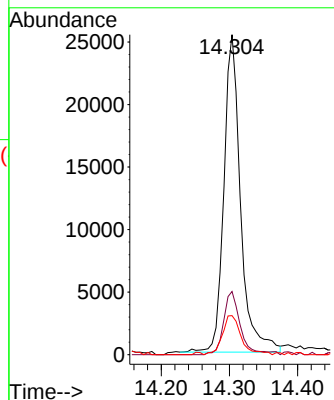
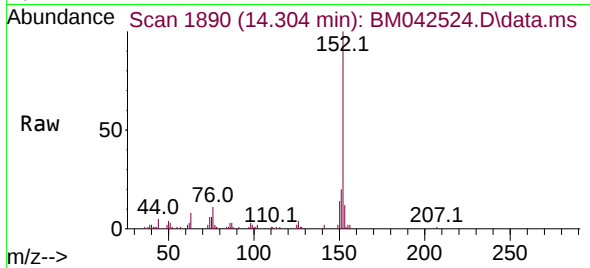




#49
Acenaphthylene
Concen: 3.160 ng
RT: 14.304 min Scan# 1890
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

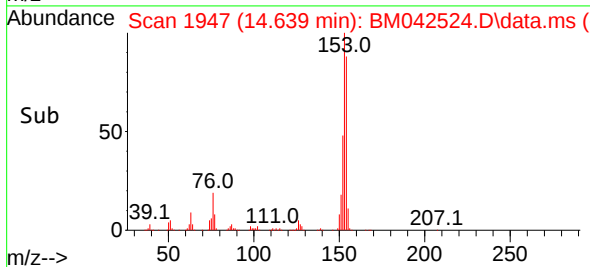
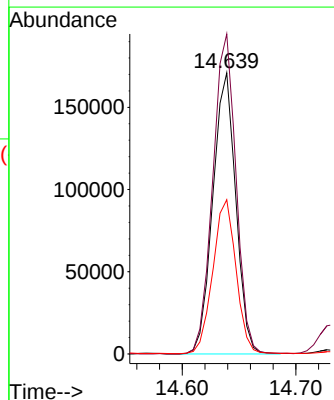
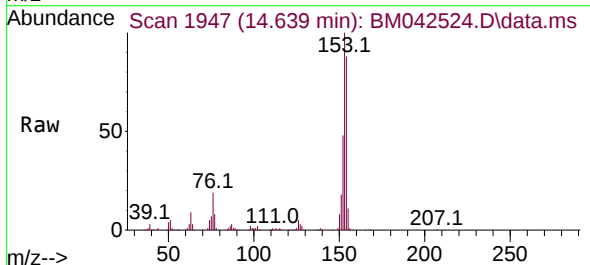
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

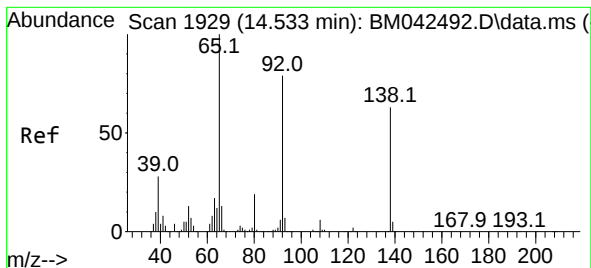
Tgt Ion:152 Resp: 43354
Ion Ratio Lower Upper
152 100
151 19.8 16.4 24.6
153 12.2 10.4 15.6



#52
Acenaphthene
Concen: 28.852 ng
RT: 14.639 min Scan# 1947
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:154 Resp: 240261
Ion Ratio Lower Upper
154 100
153 113.9 92.0 138.0
152 54.9 44.0 66.0

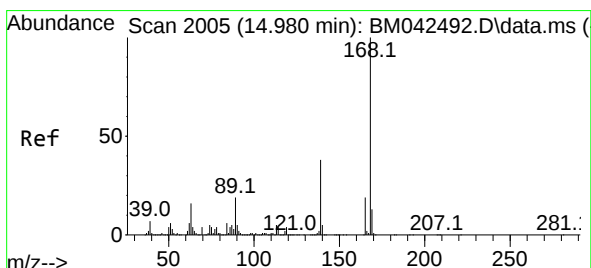
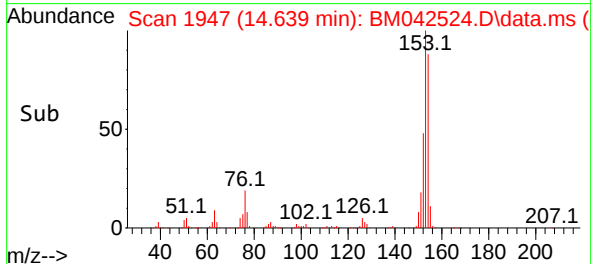
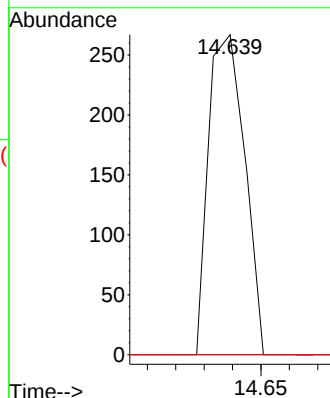
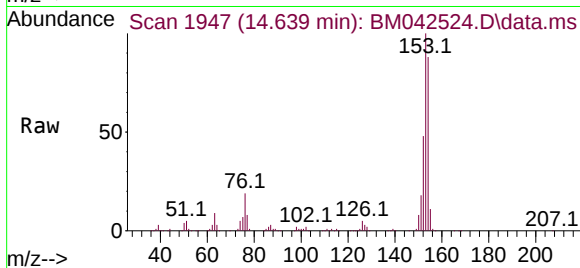




#53
3-Nitroaniline
Concen: 4.436 ng
RT: 14.639 min Scan# 1929
Delta R.T. 0.106 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

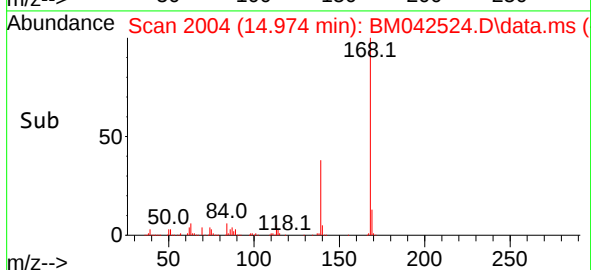
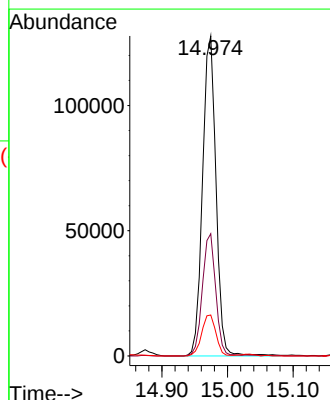
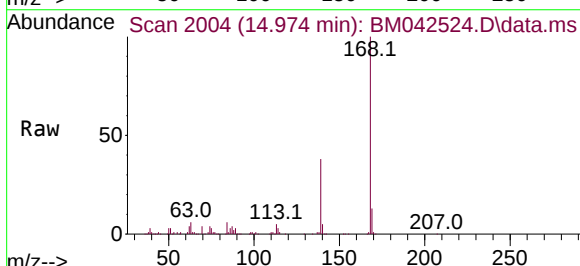
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

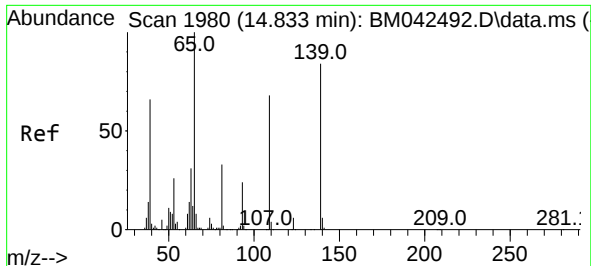
Tgt Ion:138 Resp: 237
Ion Ratio Lower Upper
138 100
108 0.0 7.9 11.9#
92 0.0 100.7 151.1#



#55
Dibenzofuran
Concen: 13.517 ng
RT: 14.974 min Scan# 2004
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:168 Resp: 183013
Ion Ratio Lower Upper
168 100
139 38.2 30.4 45.6
169 12.8 10.6 15.8

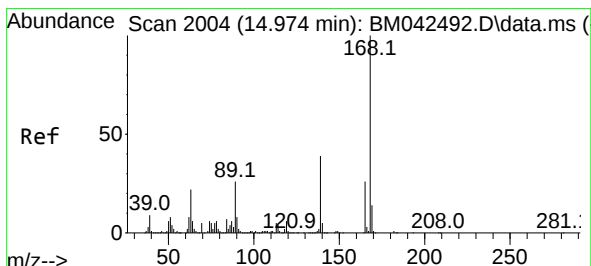
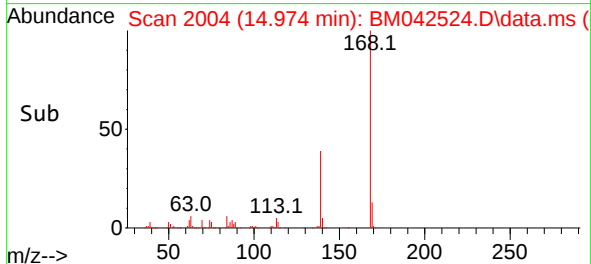
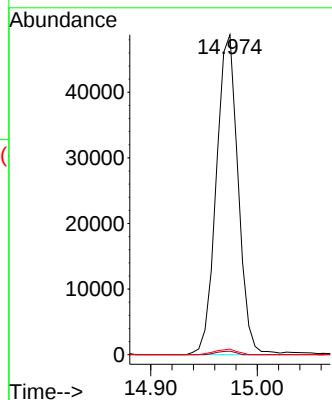
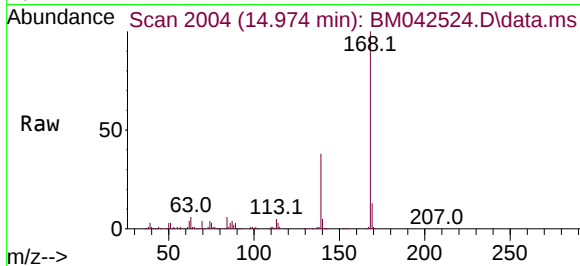




#56
4-Nitrophenol
Concen: 37.578 ng
RT: 14.974 min Scan# 2004
Delta R.T. 0.141 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

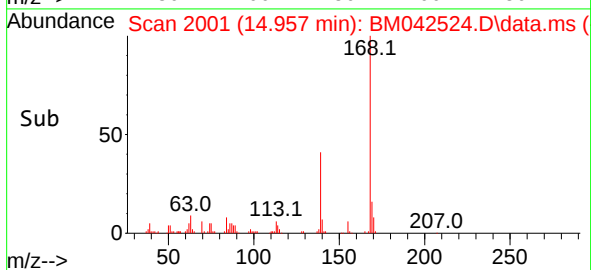
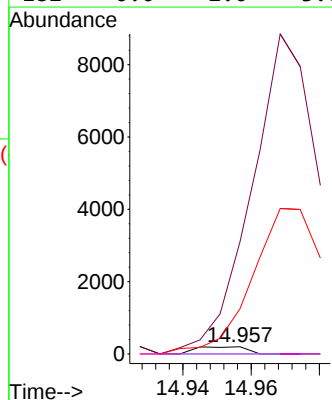
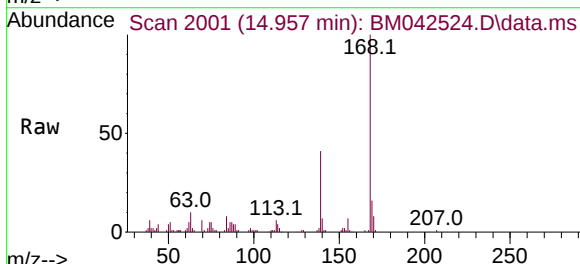
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

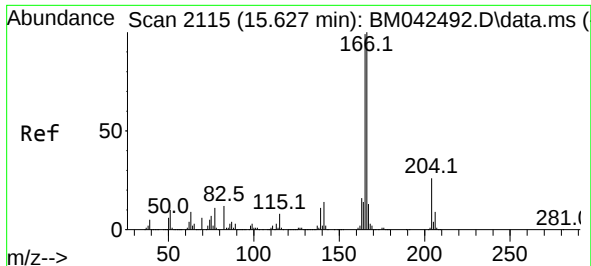
Tgt Ion:139 Resp: 69360
Ion Ratio Lower Upper
139 100
109 1.1 61.3 101.3#
65 1.7 100.2 140.2#



#57
2,4-Dinitrotoluene
Concen: 4.025 ng
RT: 14.957 min Scan# 2001
Delta R.T. -0.017 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:165 Resp: 204
Ion Ratio Lower Upper
165 100
63 1561.8 66.7 100.1#
89 630.2 80.2 120.4#
182 0.0 2.0 3.0#

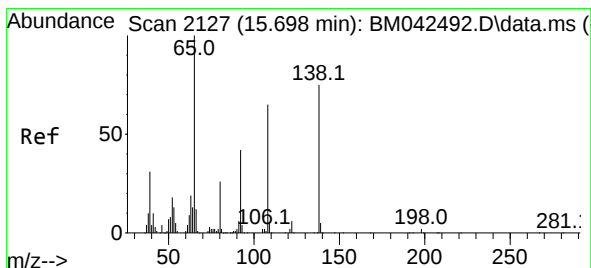
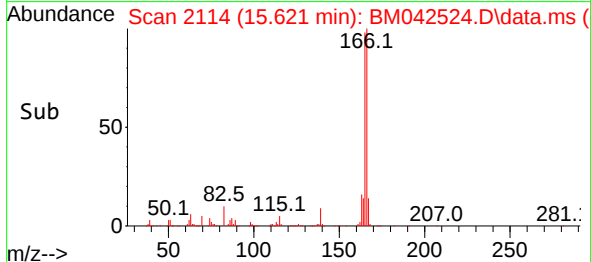
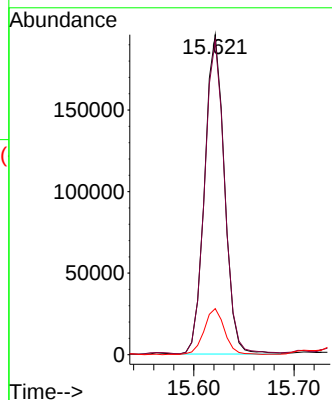
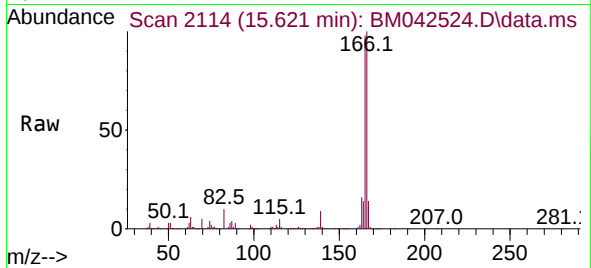




#58
 Fluorene
 Concen: 24.566 ng
 RT: 15.621 min Scan# 2115
 Delta R.T. -0.006 min
 Lab File: BM042524.D
 Acq: 31 Oct 2023 23:12

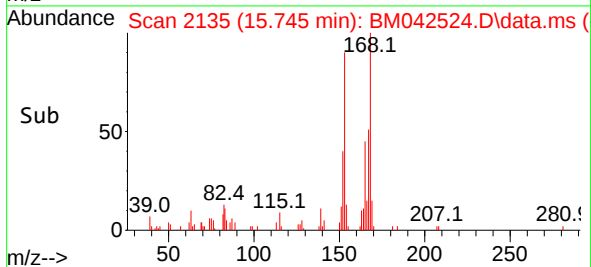
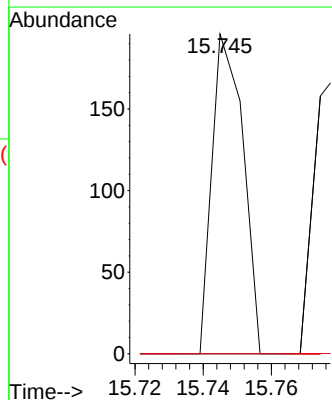
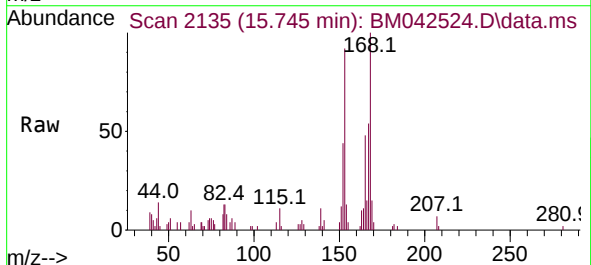
Instrument :
 BNA_M
 ClientSampleId :
 A-8(0-2)

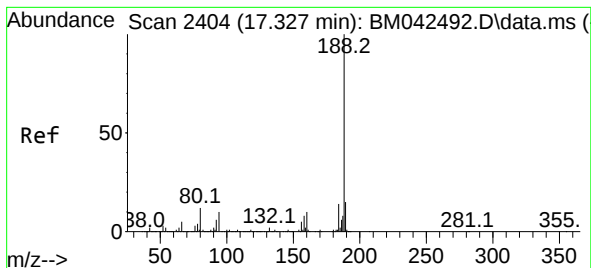
Tgt Ion:166 Resp: 269115
 Ion Ratio Lower Upper
 166 100
 165 98.3 79.3 118.9
 167 14.4 10.5 15.7



#62
 4-Nitroaniline
 Concen: 5.787 ng
 RT: 15.745 min Scan# 2135
 Delta R.T. 0.047 min
 Lab File: BM042524.D
 Acq: 31 Oct 2023 23:12

Tgt Ion:138 Resp: 124
 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: 17.327 min Scan# 2404

Delta R.T. 0.000 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

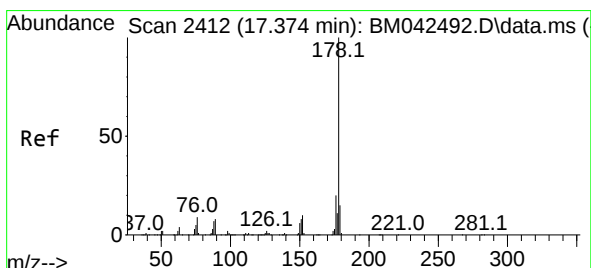
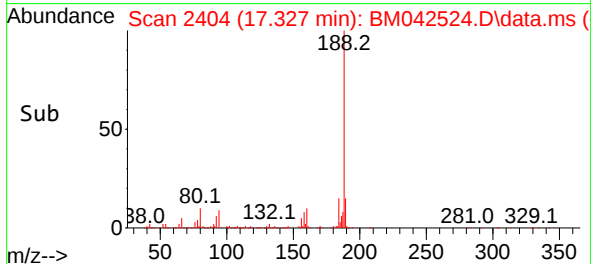
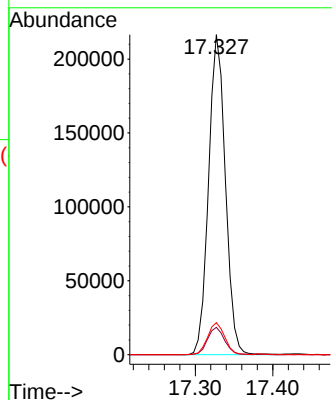
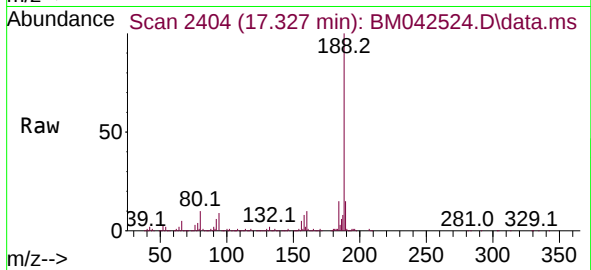
Tgt Ion:188 Resp: 325650

Ion Ratio Lower Upper

188 100

94 8.6 8.2 12.4

80 10.0 9.4 14.2



#71

Phenanthrene

Concen: 384.852 ng

RT: 17.380 min Scan# 2413

Delta R.T. 0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

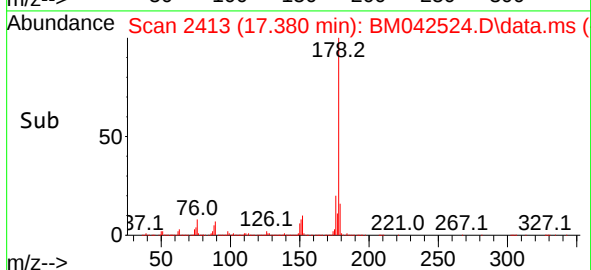
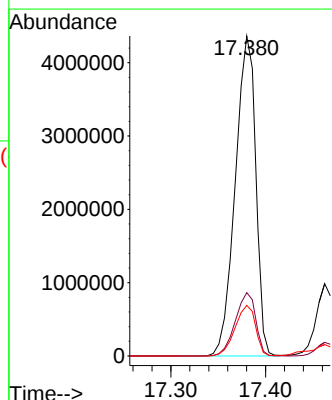
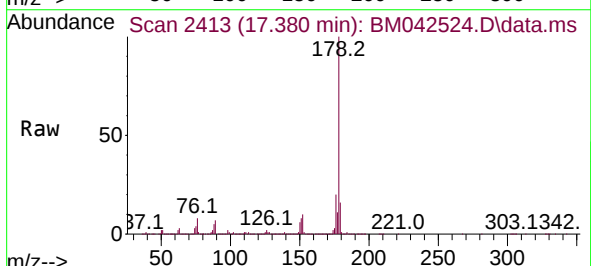
Tgt Ion:178 Resp: 6549501

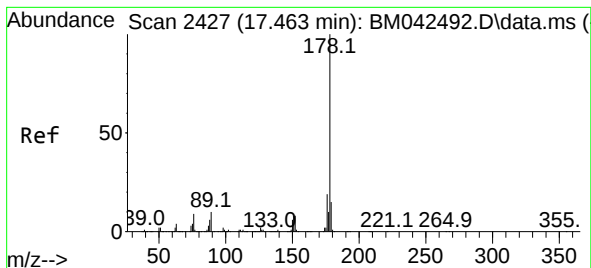
Ion Ratio Lower Upper

178 100

176 19.8 15.8 23.8

179 15.8 12.2 18.4





#72

Anthracene

Concen: 77.081 ng

RT: 17.462 min Scan# 2427

Delta R.T. -0.000 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

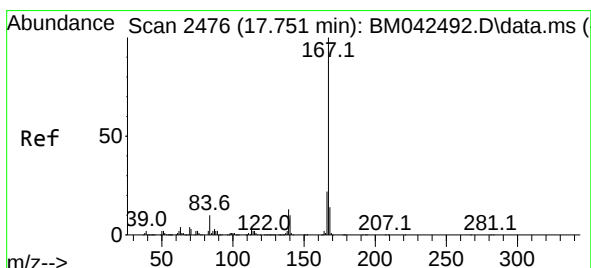
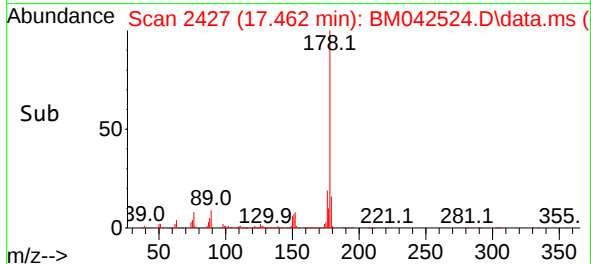
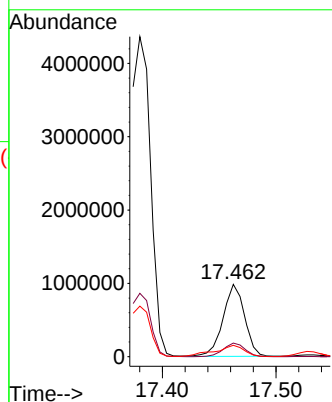
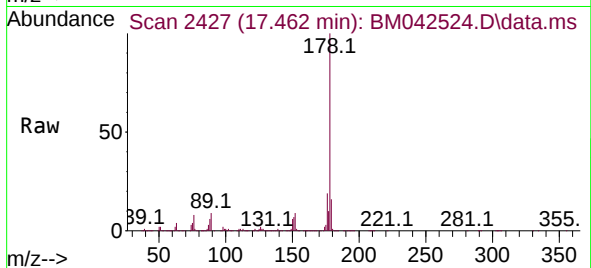
Tgt Ion:178 Resp: 1299302

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

179 15.7 12.3 18.5



#73

Carbazole

Concen: 63.104 ng

RT: 17.751 min Scan# 2476

Delta R.T. -0.000 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

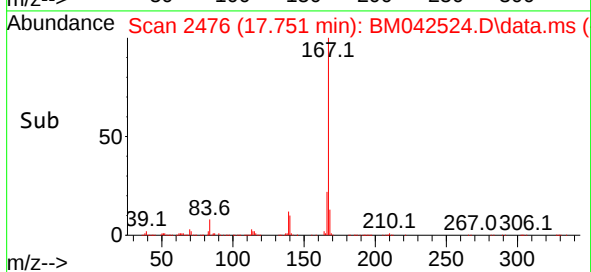
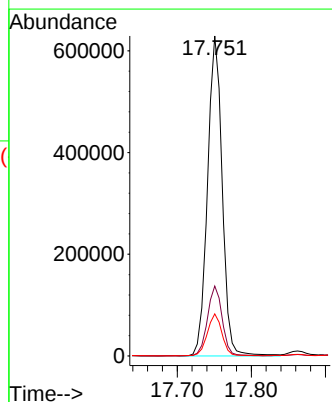
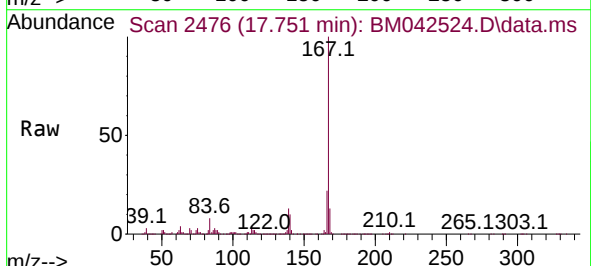
Tgt Ion:167 Resp: 865335

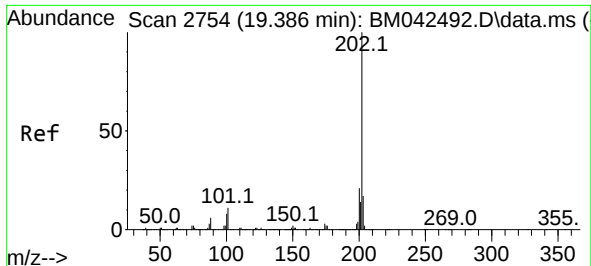
Ion Ratio Lower Upper

167 100

166 21.9 17.4 26.2

139 13.2 10.5 15.7

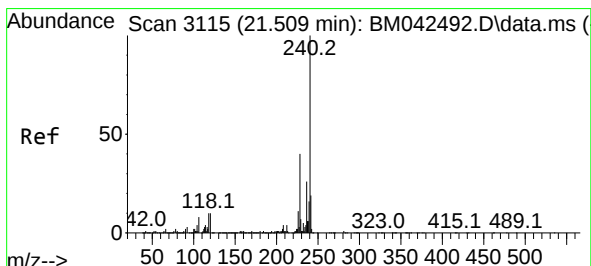
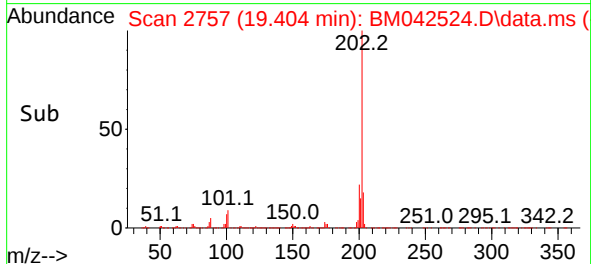
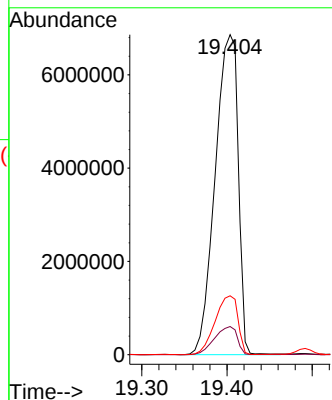
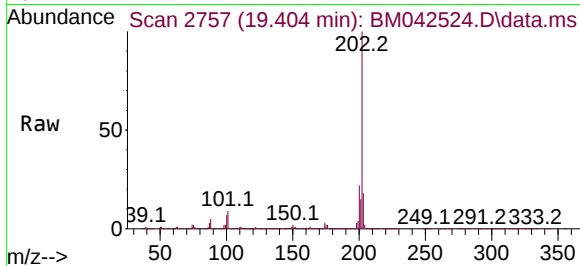




#75
Fluoranthene
Concen: 643.934 ng
RT: 19.404 min Scan# 21
Delta R.T. 0.018 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

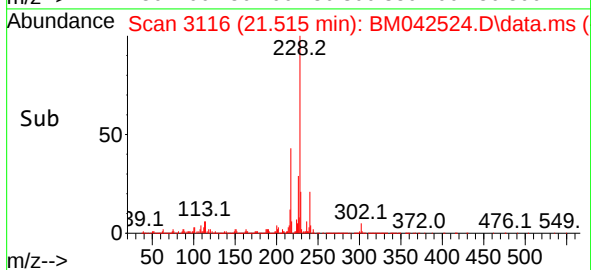
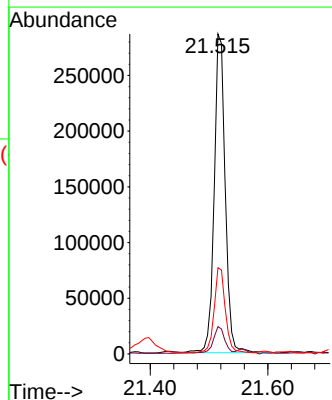
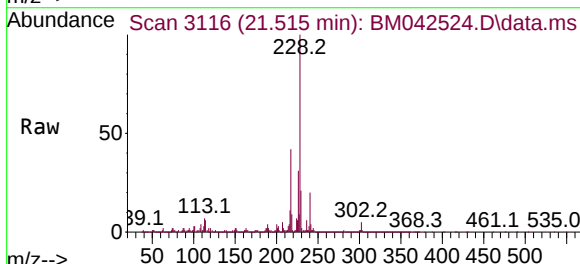
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

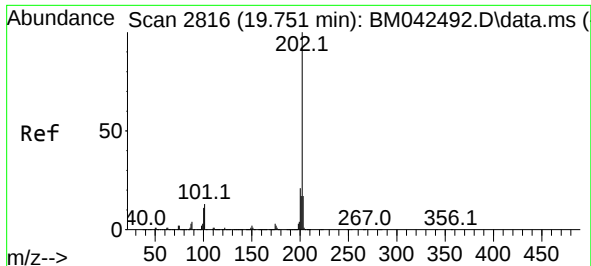
Tgt Ion:202 Resp:12872733
Ion Ratio Lower Upper
202 100
101 8.8 0.0 30.5
203 18.4 0.0 37.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.515 min Scan# 3116
Delta R.T. 0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:240 Resp: 371461
Ion Ratio Lower Upper
240 100
120 8.6 8.3 12.5
236 26.9 20.8 31.2

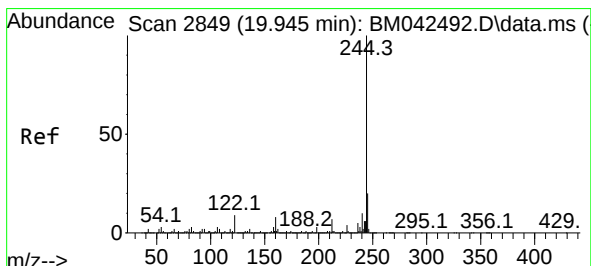
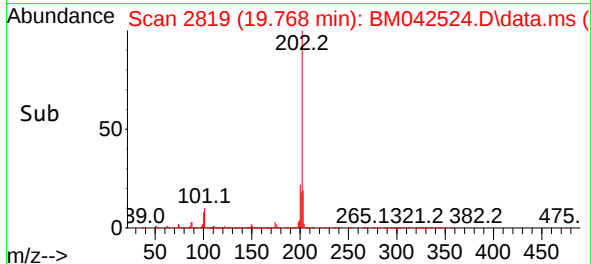
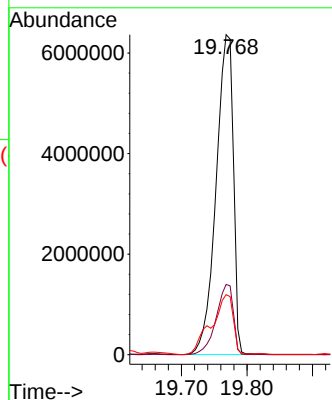
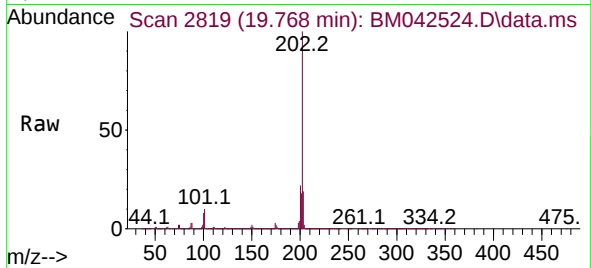




#78
Pyrene
Concen: 455.041 ng
RT: 19.768 min Scan# 2816
Delta R.T. 0.018 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

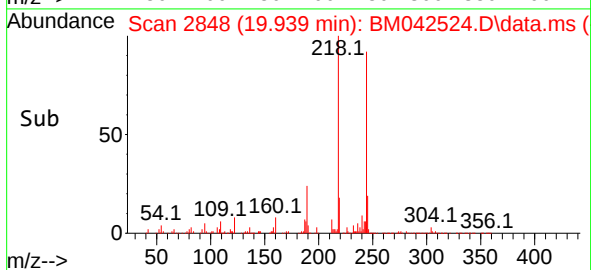
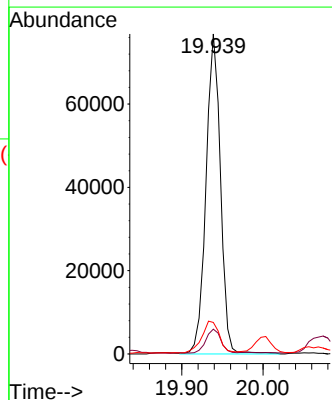
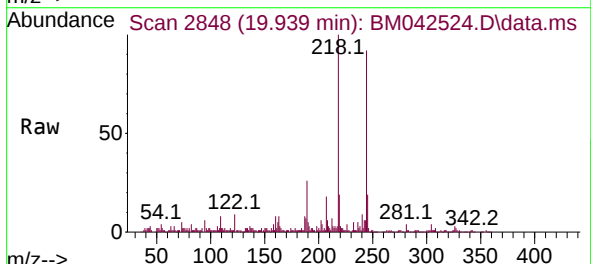
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

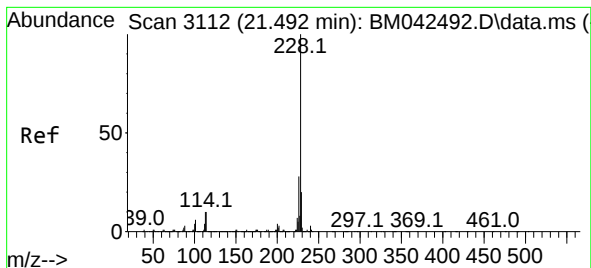
Tgt Ion:202 Resp:11606700
Ion Ratio Lower Upper
202 100
200 22.0 16.9 25.3
203 18.8 13.7 20.5



#79
Terphenyl-d14
Concen: 4.332 ng
RT: 19.939 min Scan# 2848
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:244 Resp: 94908
Ion Ratio Lower Upper
244 100
212 7.7 5.4 8.2
122 9.8 7.2 10.8





#81

Benzo(a)anthracene

Concen: 269.825 ng

RT: 21.503 min Scan# 3114

Delta R.T. 0.012 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

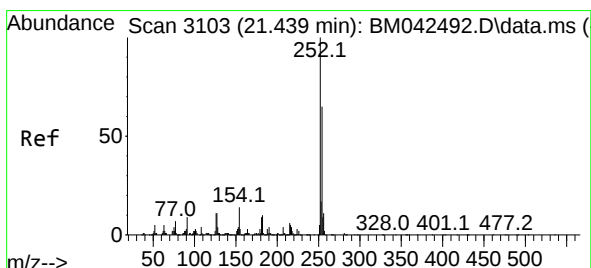
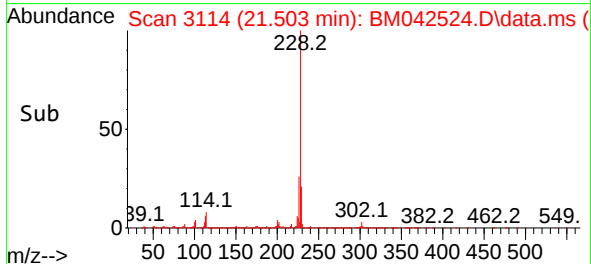
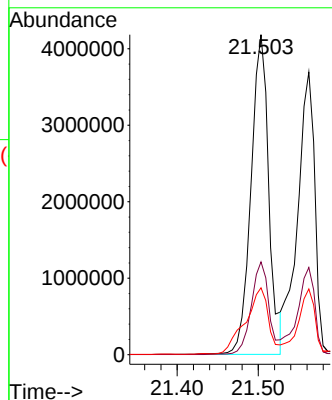
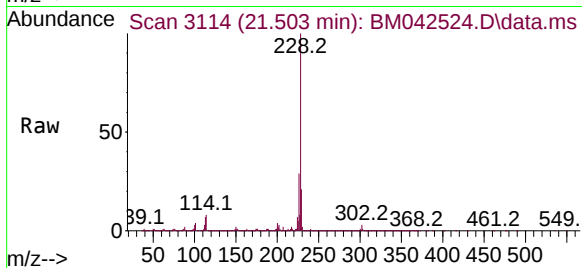
Tgt Ion:228 Resp: 6377132

Ion Ratio Lower Upper

228 100

226 29.0 22.3 33.5

229 20.9 15.8 23.8



#82

3,3'-Dichlorobenzidine

Concen: 3.803 ng

RT: 21.550 min Scan# 3122

Delta R.T. 0.112 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

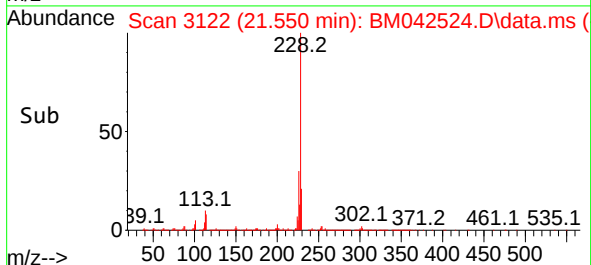
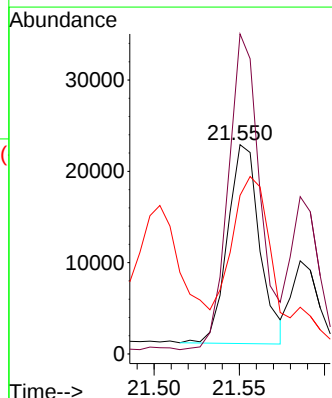
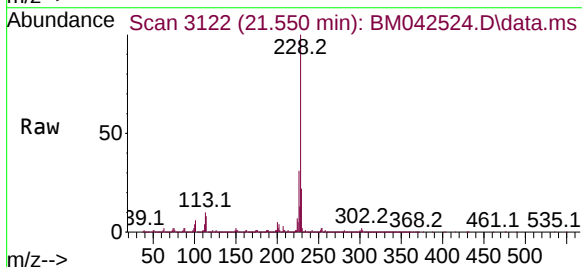
Tgt Ion:252 Resp: 28565

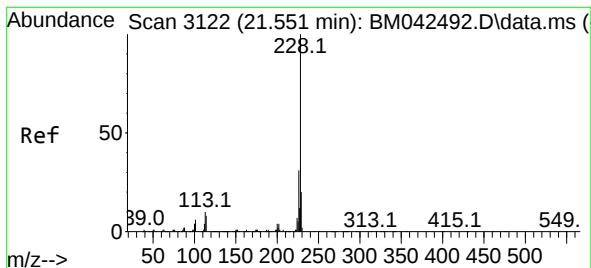
Ion Ratio Lower Upper

252 100

254 152.9 52.2 78.4#

126 75.8 8.9 13.3#





#83

Chrysene

Concen: 228.427 ng

RT: 21.562 min Scan# 31

Delta R.T. 0.012 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

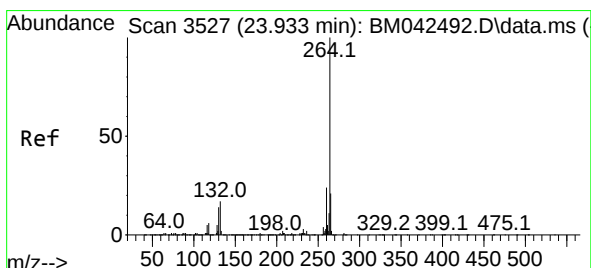
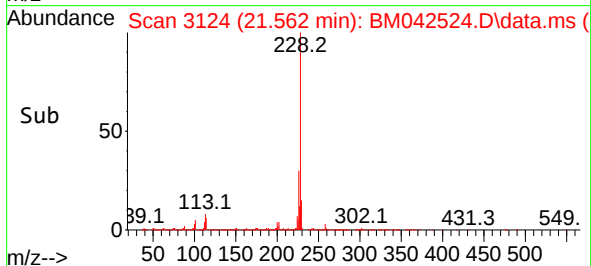
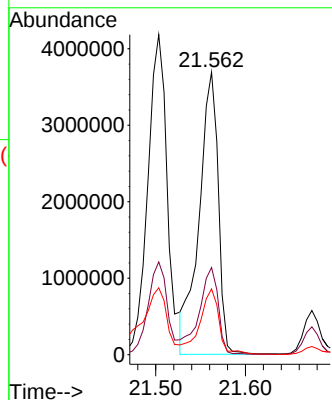
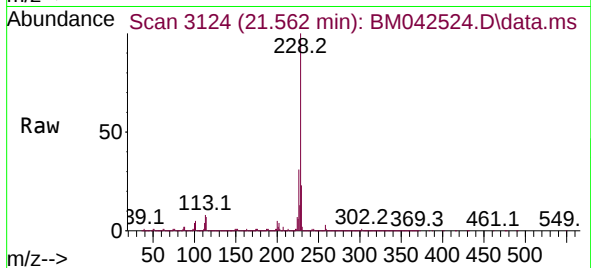
Tgt Ion:228 Resp: 5483979

Ion Ratio Lower Upper

228 100

226 30.8 24.4 36.6

229 23.3 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.944 min Scan# 3529

Delta R.T. 0.012 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

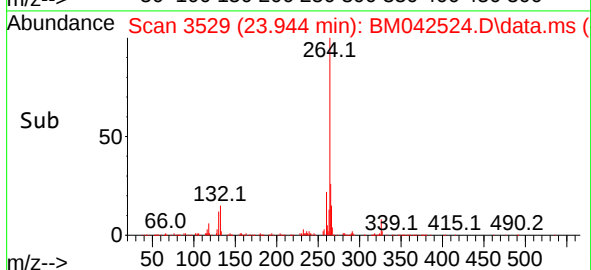
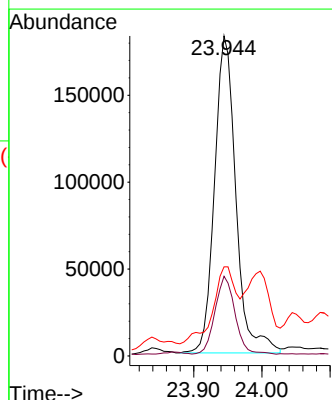
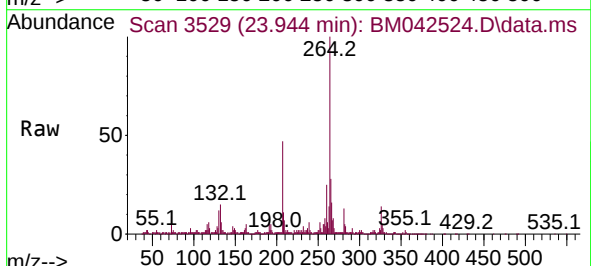
Tgt Ion:264 Resp: 397982

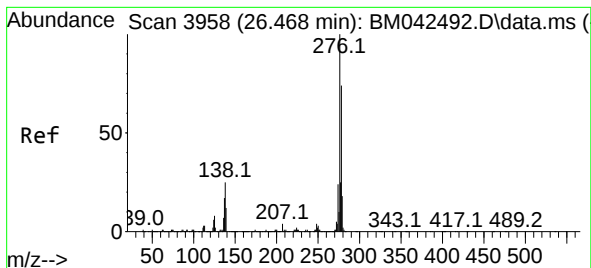
Ion Ratio Lower Upper

264 100

260 24.9 19.0 28.4

265 27.9 18.7 28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 174.647 ng

RT: 26.521 min Scan# 3405

Delta R.T. 0.053 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

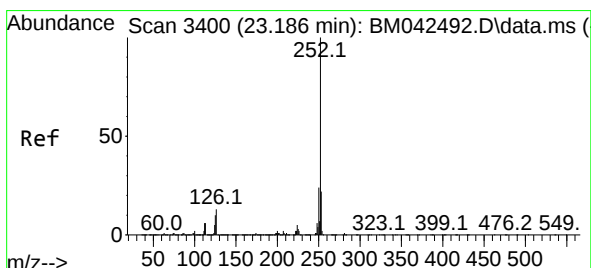
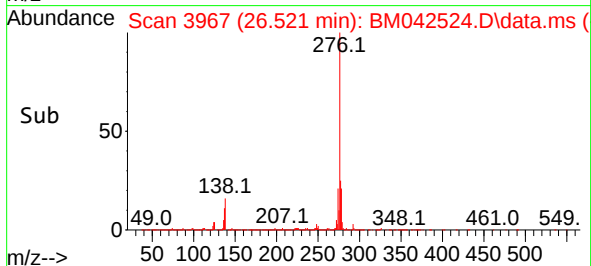
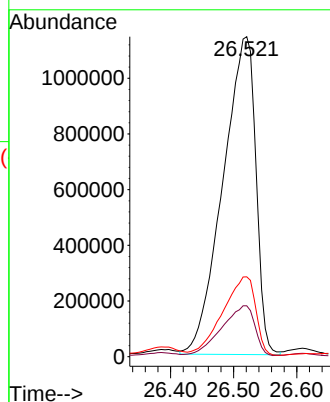
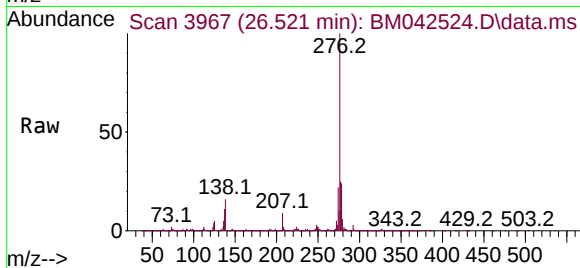
Tgt Ion:276 Resp: 4136846

Ion Ratio Lower Upper

276 100

138 15.9 20.6 31.0#

277 24.6 19.5 29.3



#88

Benzo(b)fluoranthene

Concen: 392.352 ng

RT: 23.215 min Scan# 3405

Delta R.T. 0.029 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

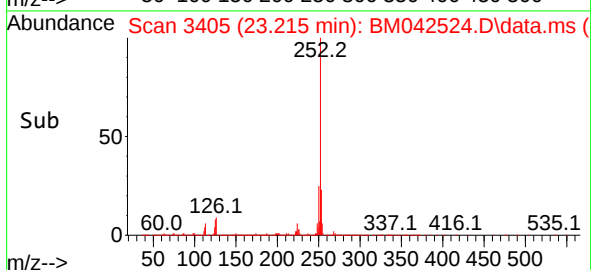
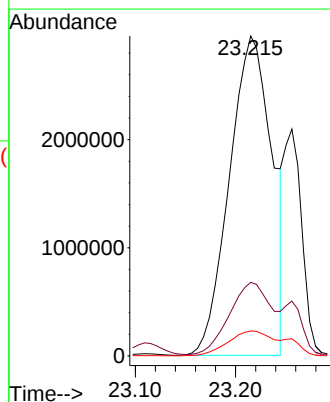
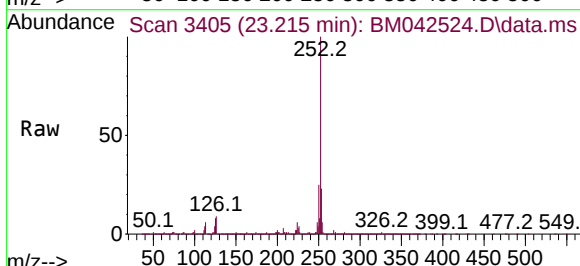
Tgt Ion:252 Resp: 8699376

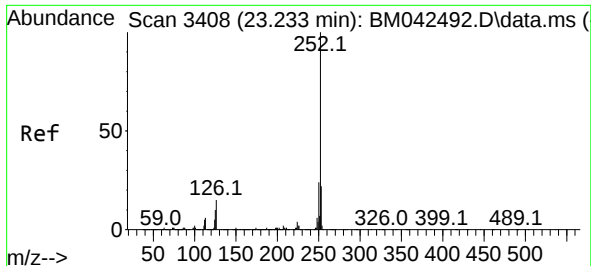
Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 7.8 7.8 11.6

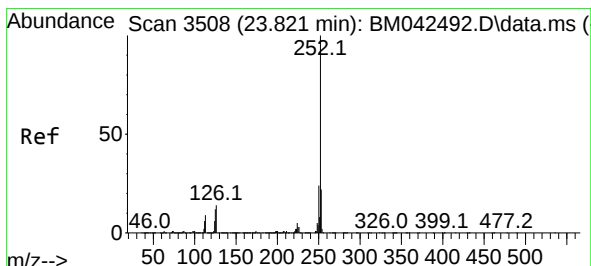
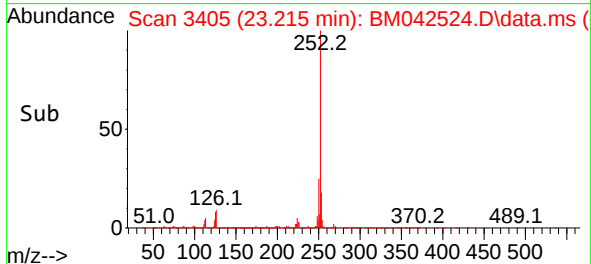
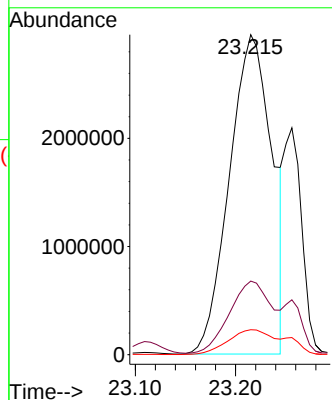
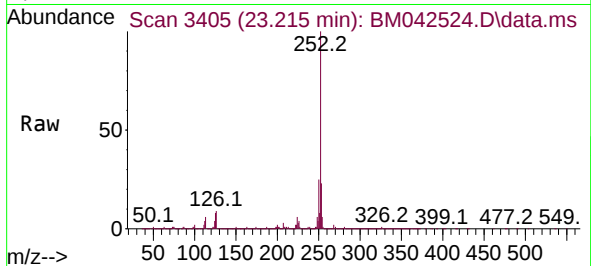




#89
Benzo(k)fluoranthene
Concen: 352.103 ng
RT: 23.215 min Scan# 34
Delta R.T. -0.018 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

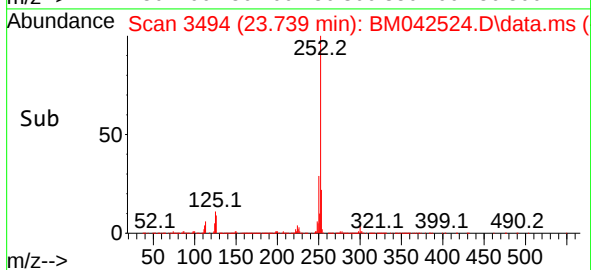
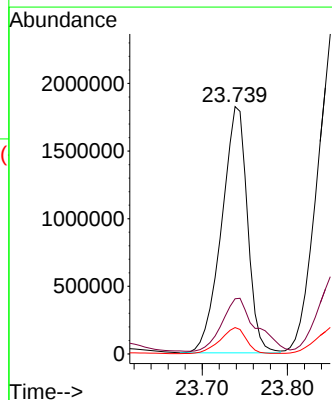
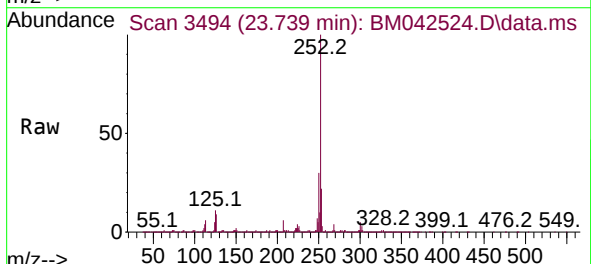
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

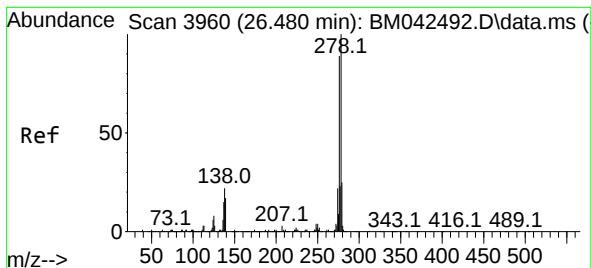
Tgt Ion:252 Resp: 8699376
Ion Ratio Lower Upper
252 100
253 23.0 17.6 26.4
125 7.8 8.2 12.4#



#90
Benzo(a)pyrene
Concen: 175.715 ng
RT: 23.739 min Scan# 3494
Delta R.T. -0.082 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:252 Resp: 3835722
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.7 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 15.435 ng

RT: 26.609 min Scan# 3960

Delta R.T. 0.129 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

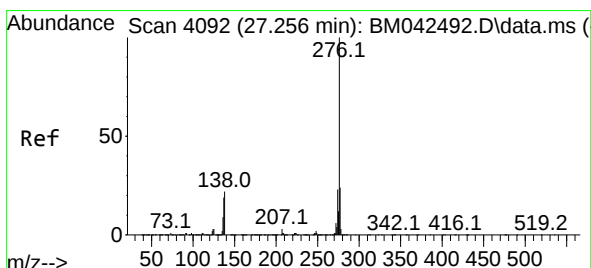
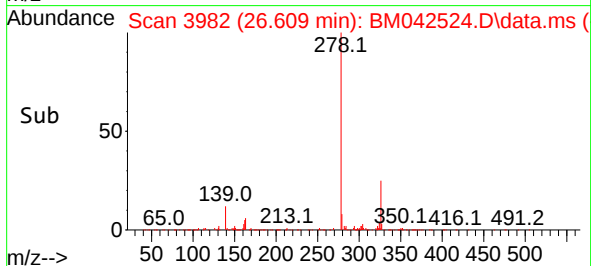
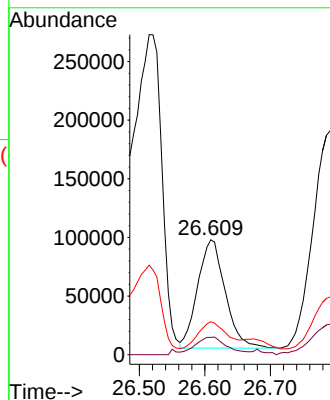
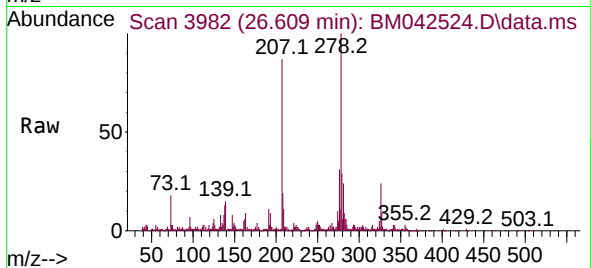
Tgt Ion:278 Resp: 270334

Ion Ratio Lower Upper

278 100

139 15.0 13.4 20.2

279 28.7 19.7 29.5



#92

Benzo(g,h,i)perylene

Concen: 186.919 ng

RT: 27.327 min Scan# 4104

Delta R.T. 0.071 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Tgt Ion:276 Resp: 3902236

Ion Ratio Lower Upper

276 100

277 25.8 19.2 28.8

138 16.7 17.3 25.9#

