

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110423\
 Data File : BM042596.D
 Acq On : 04 Nov 2023 17:53
 Operator : MA/JU
 Sample : 05220-04DL 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Nov 06 01:47:44 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 03 15:52:20 2023
 Response via : Initial Calibration

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

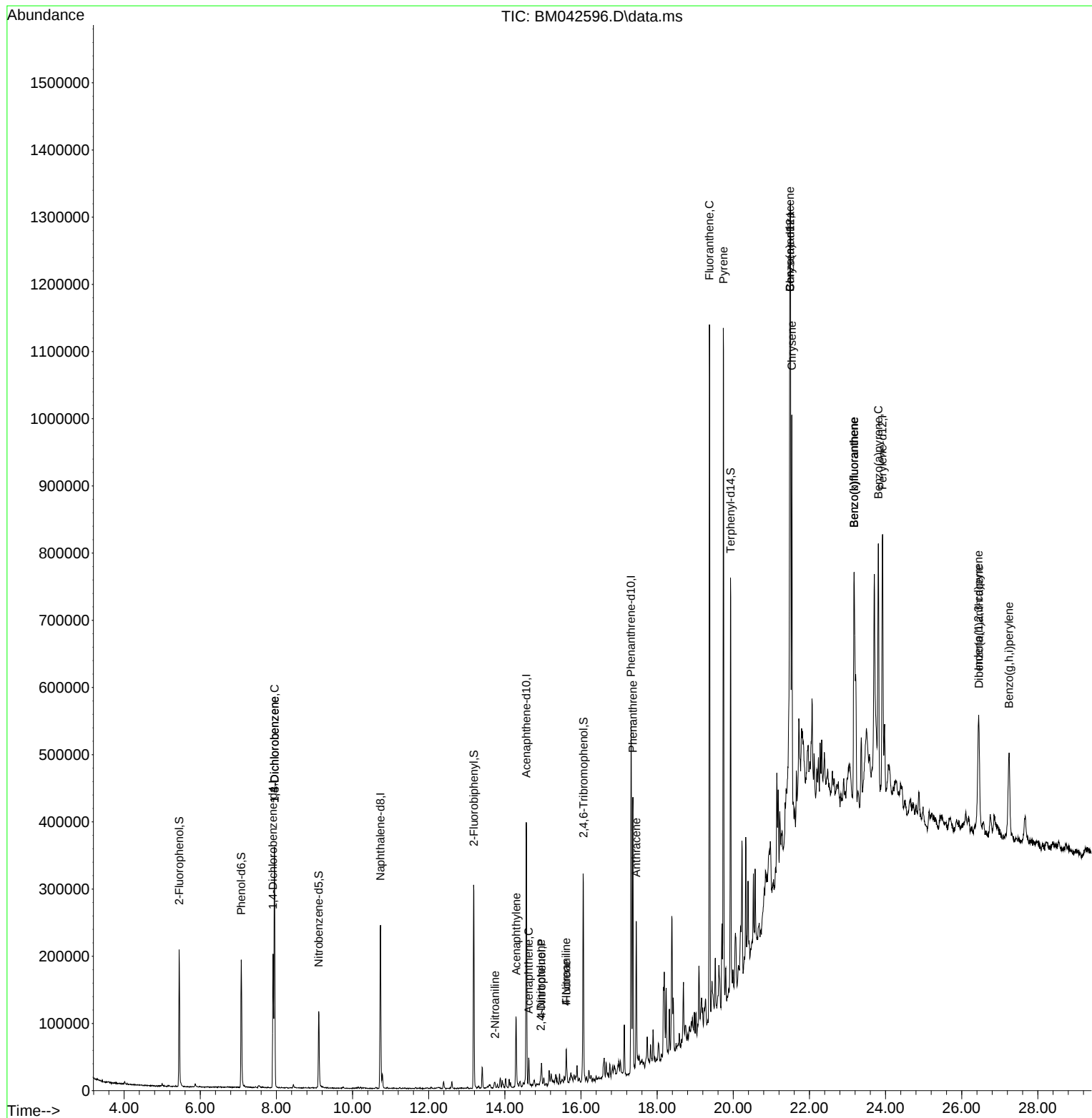
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.910	152	46041	20.000	ng	0.00
21) Naphthalene-d8	10.734	136	179736	20.000	ng	0.00
39) Acenaphthene-d10	14.563	164	121528	20.000	ng	0.00
64) Phenanthrene-d10	17.316	188	283567	20.000	ng	# 0.00
76) Chrysene-d12	21.498	240	291361	20.000	ng	0.00
86) Perylene-d12	23.921	264	317393	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	73376	25.721	ng	0.00
7) Phenol-d6	7.075	99	94956	24.270	ng	0.00
23) Nitrobenzene-d5	9.110	82	65219	16.915	ng	0.00
42) 2,4,6-Tribromophenol	16.063	330	48118	30.327	ng	0.00
45) 2-Fluorobiphenyl	13.186	172	144628	16.014	ng	0.00
79) Terphenyl-d14	19.933	244	271391	15.794	ng	0.00
Target Compounds						Qvalue
12) 1,3-Dichlorobenzene	7.951	146	125438	37.731	ng	97
13) 1,4-Dichlorobenzene	7.951	146	125438	37.281	ng	98
48) 2-Nitroaniline	13.745	65	134	4.395	ng	# 13
49) Acenaphthylene	14.298	152	77029	6.825	ng	98
52) Acenaphthene	14.628	154	13733	2.005	ng	96
56) 4-Nitrophenol	14.963	139	7614	11.041	ng	# 4
57) 2,4-Dinitrotoluene	14.945	165	114	4.008	ng	# 1
58) Fluorene	15.616	166	24034	2.667	ng	99
62) 4-Nitroaniline	15.610	138	141	5.805	ng	# 12
71) Phenanthrene	17.363	178	221071	14.918	ng	99
72) Anthracene	17.451	178	128171	8.732	ng	99
75) Fluoranthene	19.374	202	591318	33.969	ng	98
78) Pyrene	19.739	202	591457	29.563	ng	99
81) Benzo(a)anthracene	21.486	228	341885	18.442	ng	96
83) Chrysene	21.539	228	280615	14.902	ng	95
87) Indeno(1,2,3-cd)pyrene	26.444	276	162582	8.607	ng	# 91
88) Benzo(b)fluoranthene	23.174	252	353201	19.974	ng	98
89) Benzo(k)fluoranthene	23.174	252	353201	17.925	ng	98
90) Benzo(a)pyrene	23.809	252	277178	15.922	ng	96
91) Dibenzo(a,h)anthracene	26.456	278	42699	6.375	ng	# 73
92) Benzo(g,h,i)perylene	27.244	276	159366	9.572	ng	96

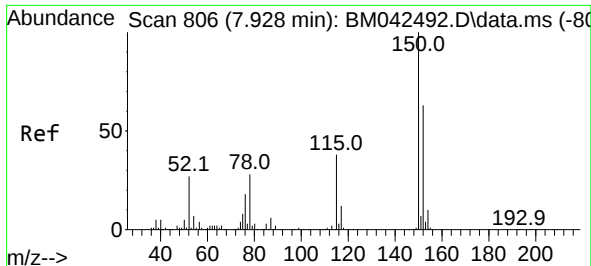
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 03 15:52:20 2023
Response via : Initial Calibration

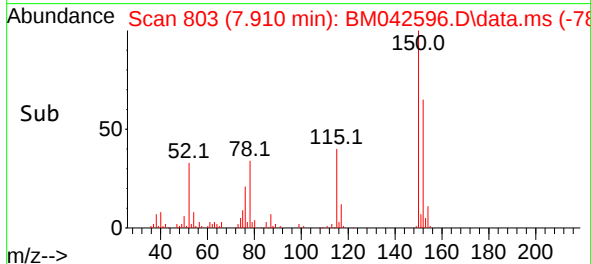
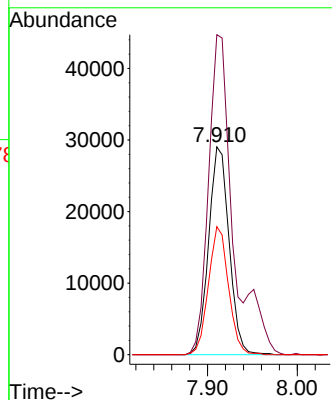
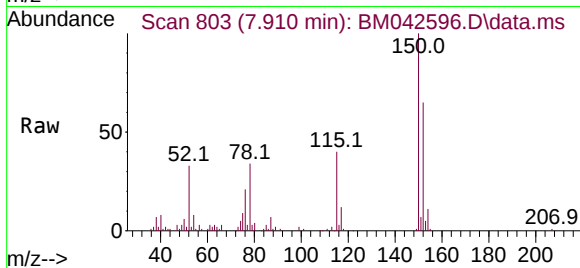




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.910 min Scan# 806
Delta R.T. 0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

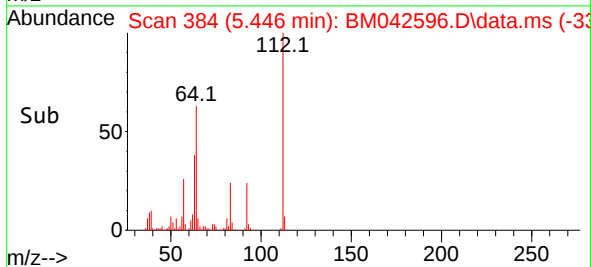
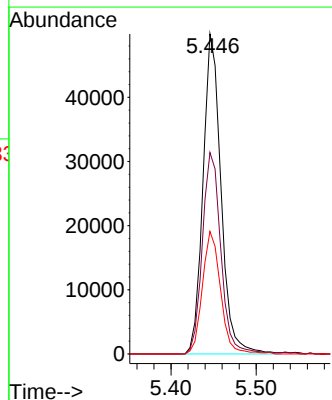
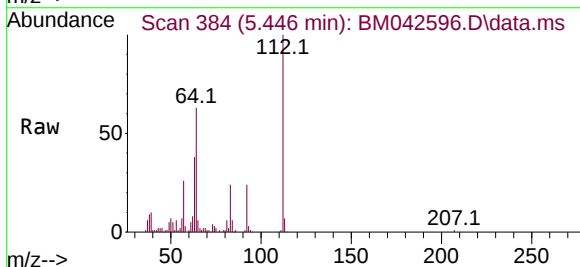
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

Tgt Ion:152 Resp: 46041
Ion Ratio Lower Upper
152 100
150 153.9 127.4 191.0
115 61.6 47.9 71.9



#5
2-Fluorophenol
Concen: 25.721 ng
RT: 5.446 min Scan# 384
Delta R.T. 0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:112 Resp: 73376
Ion Ratio Lower Upper
112 100
64 63.0 52.1 78.1
63 38.3 28.3 42.5

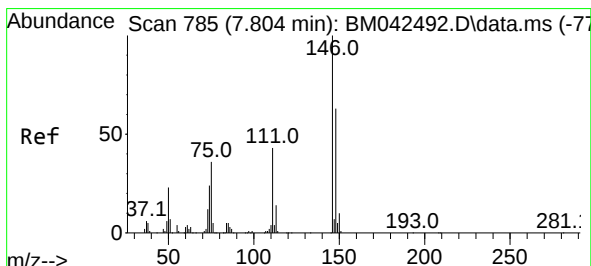
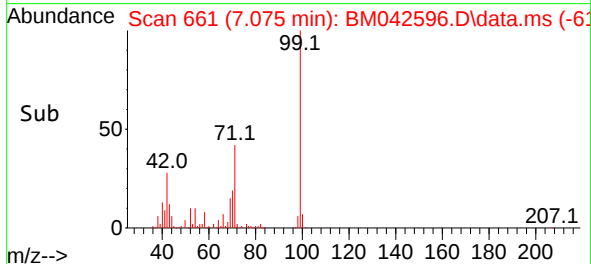
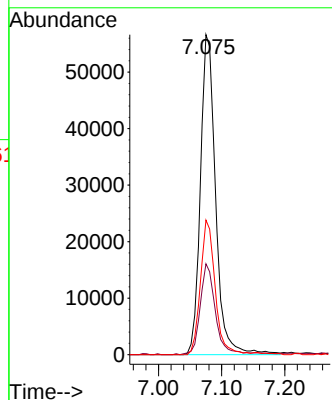
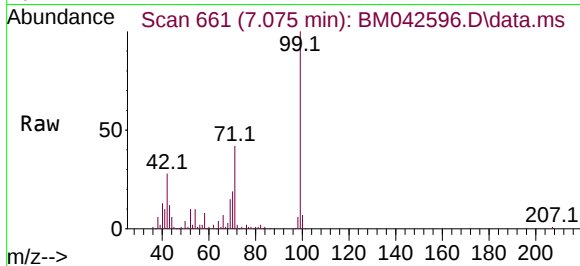




#7
Phenol-d6
Concen: 24.270 ng
RT: 7.075 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

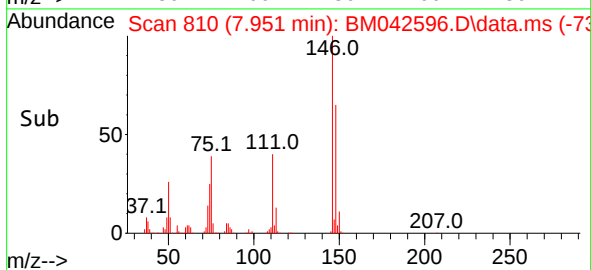
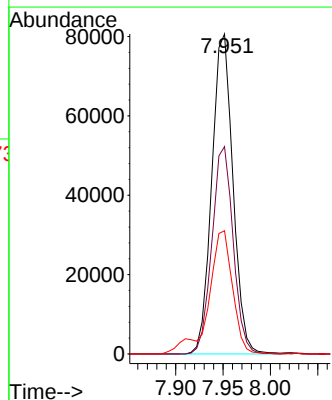
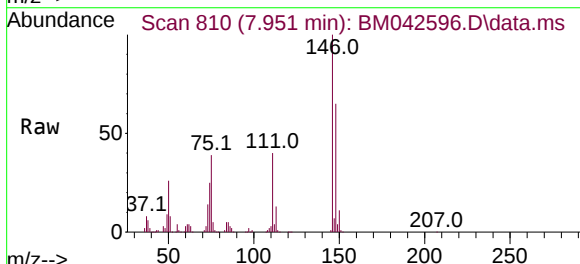
Instrument :
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ClientSampleId :
Z-7(0-5)DL

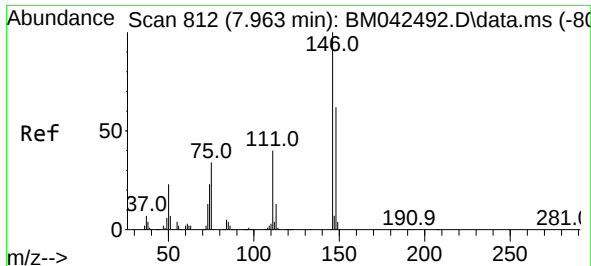
Tgt Ion: 99 Resp: 94956
Ion Ratio Lower Upper
99 100
42 28.4 18.7 28.1#
71 42.0 29.1 43.7



#12
1,3-Dichlorobenzene
Concen: 37.731 ng
RT: 7.951 min Scan# 810
Delta R.T. 0.165 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion: 146 Resp: 125438
Ion Ratio Lower Upper
146 100
148 64.8 50.4 75.6
75 38.5 28.9 43.3

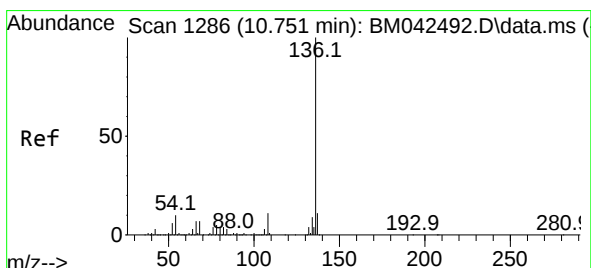
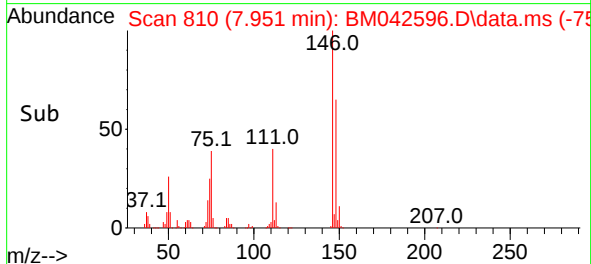
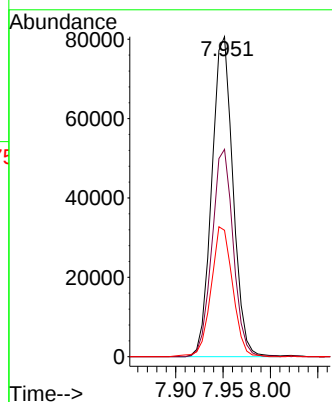
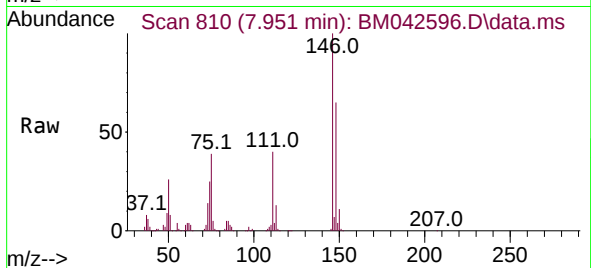




#13
1,4-Dichlorobenzene
Concen: 37.281 ng
RT: 7.951 min Scan# 81
Delta R.T. 0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

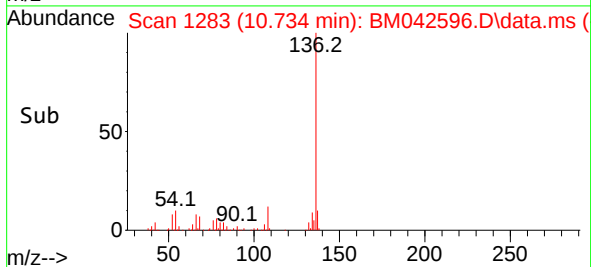
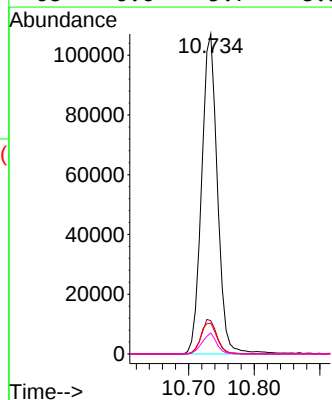
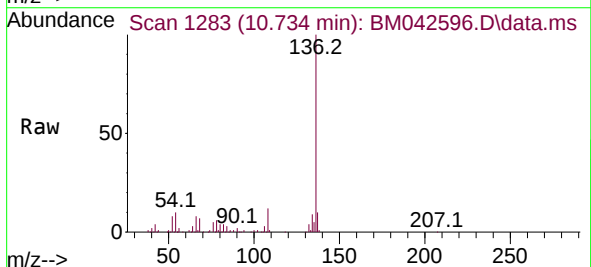
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

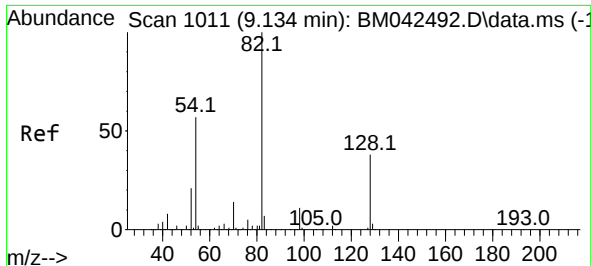
Tgt Ion:146 Resp: 125438
Ion Ratio Lower Upper
146 100
148 64.8 50.0 75.0
111 39.5 32.5 48.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.734 min Scan# 1283
Delta R.T. 0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:136 Resp: 179736
Ion Ratio Lower Upper
136 100
137 10.4 9.0 13.6
54 9.7 8.0 12.0
68 6.6 5.7 8.5

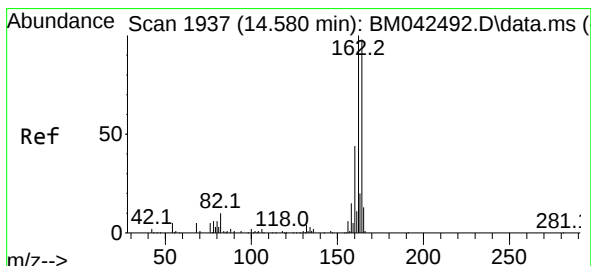
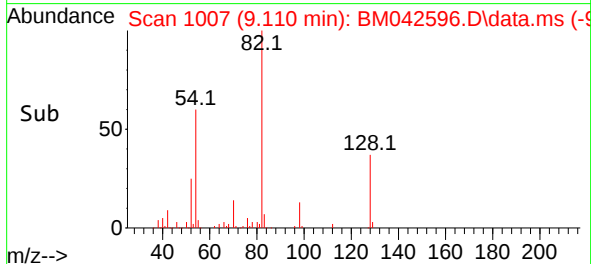
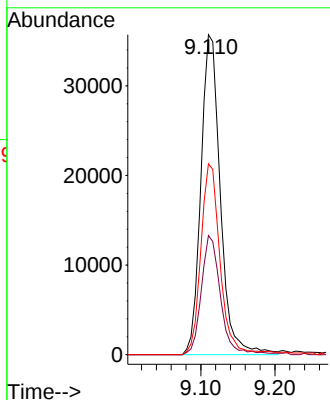
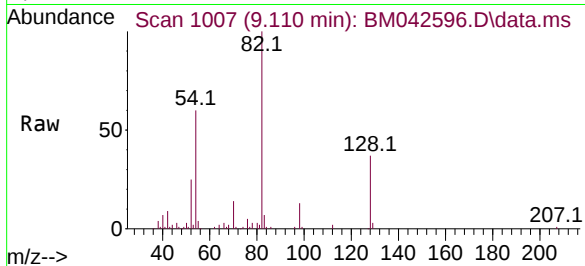




#23
Nitrobenzene-d5
Concen: 16.915 ng
RT: 9.110 min Scan# 1011
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

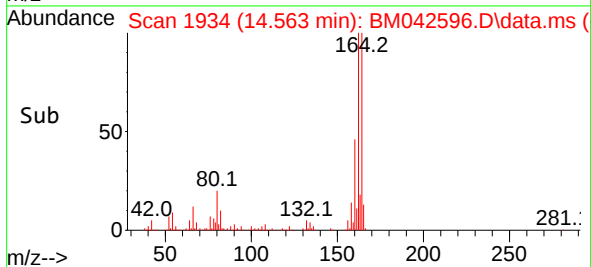
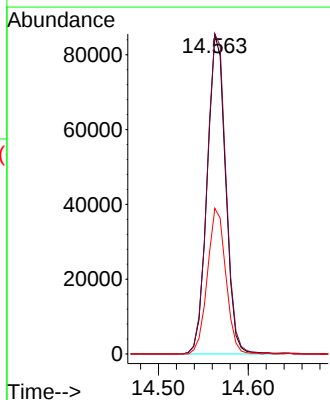
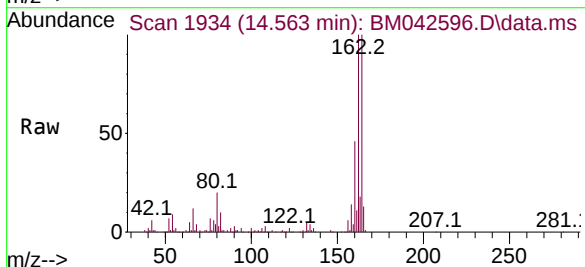
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

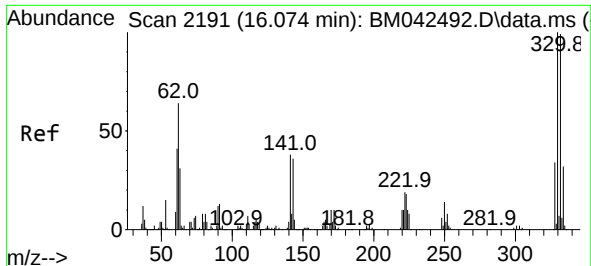
Tgt Ion: 82 Resp: 65219
Ion Ratio Lower Upper
82 100
128 37.3 30.7 46.1
54 59.7 45.3 67.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.563 min Scan# 1934
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:164 Resp: 121528
Ion Ratio Lower Upper
164 100
162 100.2 81.6 122.4
160 45.6 36.2 54.4

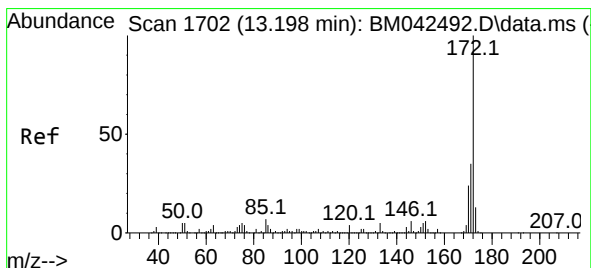
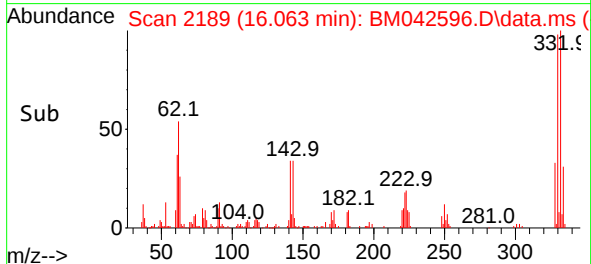
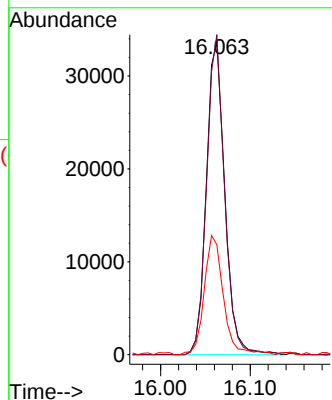
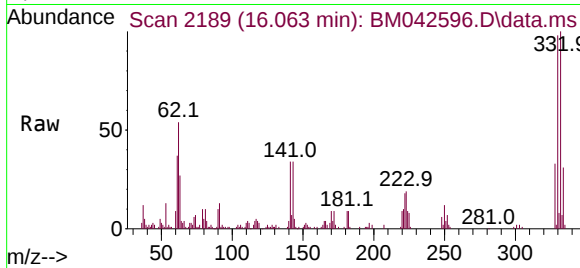




#42
2,4,6-Tribromophenol
Concen: 30.327 ng
RT: 16.063 min Scan# 2191
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

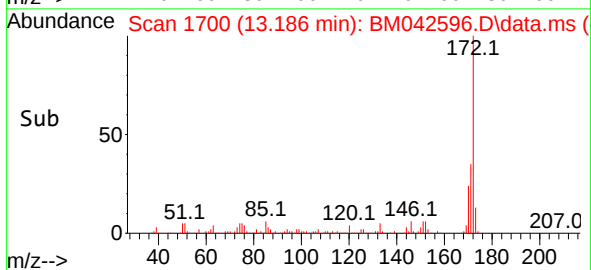
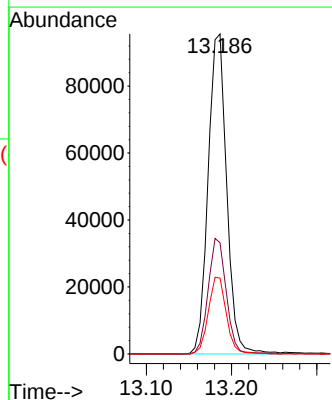
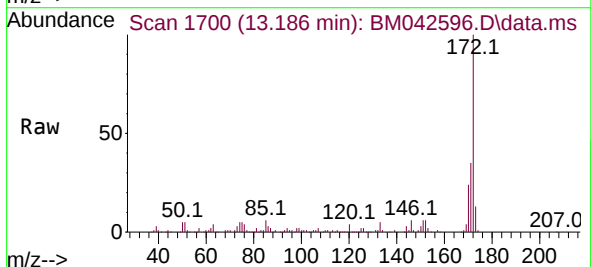
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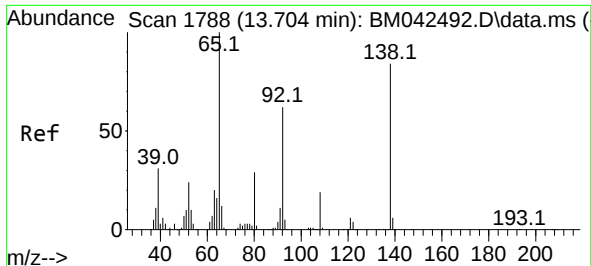
Tgt Ion:330 Resp: 48118
Ion Ratio Lower Upper
330 100
332 99.2 78.8 118.2
141 39.5 31.1 46.7



#45
2-Fluorobiphenyl
Concen: 16.014 ng
RT: 13.186 min Scan# 1700
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:172 Resp: 144628
Ion Ratio Lower Upper
172 100
171 34.8 28.2 42.2
170 23.7 19.0 28.4

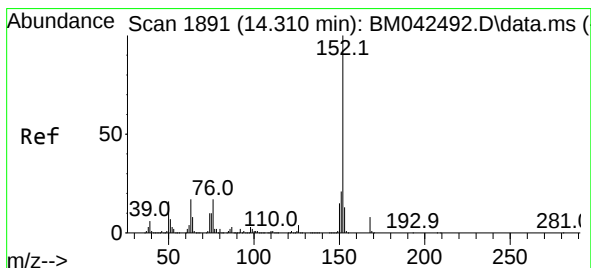
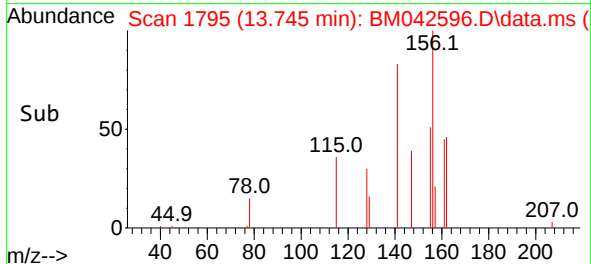
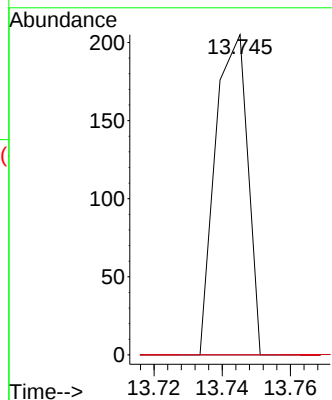
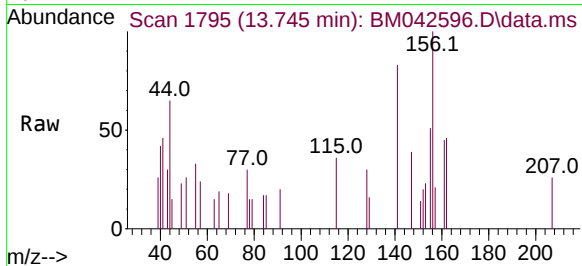




#48
2-Nitroaniline
Concen: 4.395 ng
RT: 13.745 min Scan# 11
Delta R.T. 0.053 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

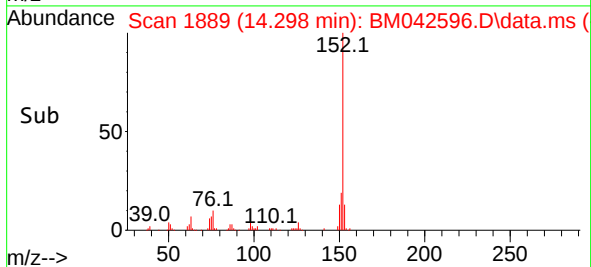
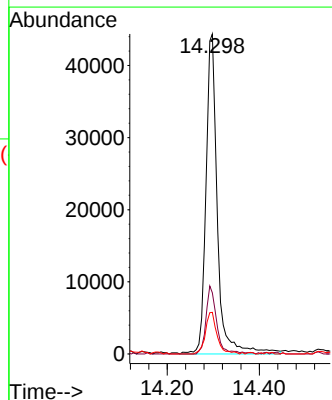
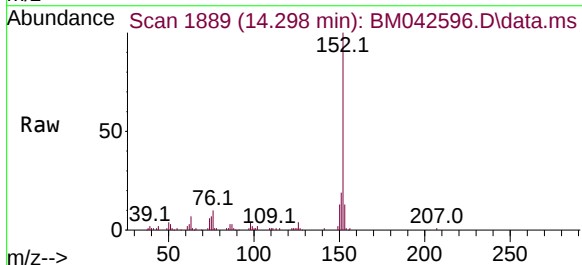
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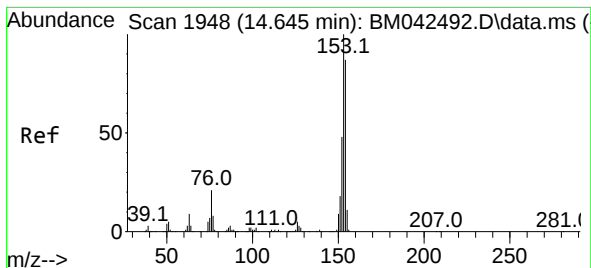
Tgt Ion: 65 Resp: 134
Ion Ratio Lower Upper
65 100
92 0.0 49.4 74.2#
138 0.0 66.9 100.3#



#49
Acenaphthylene
Concen: 6.825 ng
RT: 14.298 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion: 152 Resp: 77029
Ion Ratio Lower Upper
152 100
151 19.1 16.4 24.6
153 13.0 10.4 15.6





#52

Acenaphthene

Concen: 2.005 ng

RT: 14.628 min Scan# 1945

Delta R.T. -0.006 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

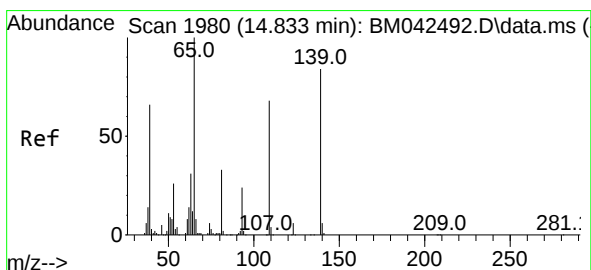
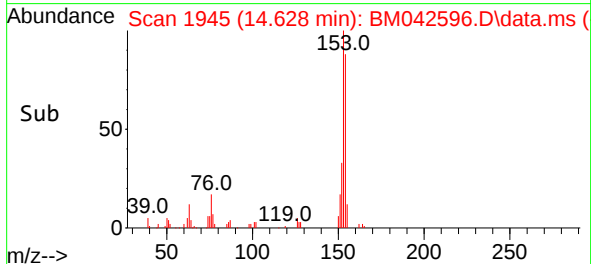
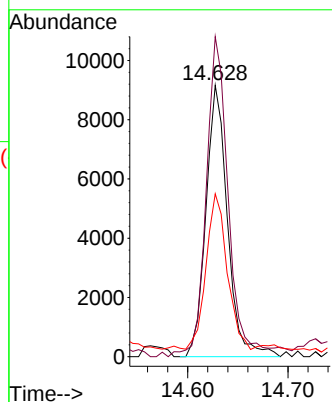
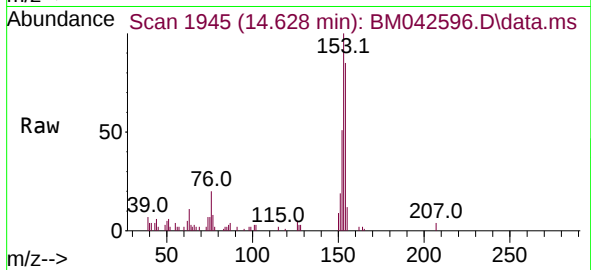
Tgt Ion:154 Resp: 13733

Ion Ratio Lower Upper

154 100

153 117.9 92.0 138.0

152 60.0 44.0 66.0



#56

4-Nitrophenol

Concen: 11.041 ng

RT: 14.963 min Scan# 2002

Delta R.T. 0.141 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

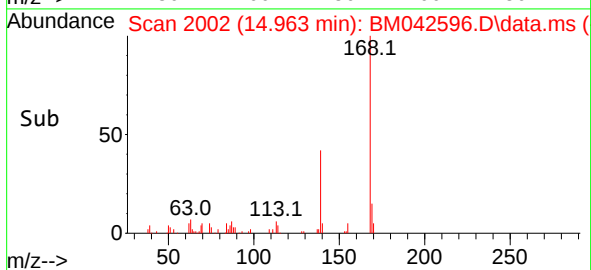
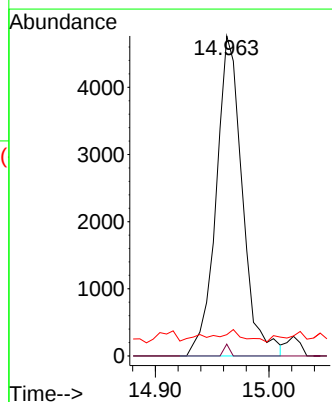
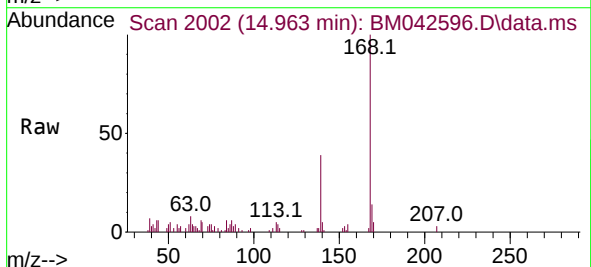
Tgt Ion:139 Resp: 7614

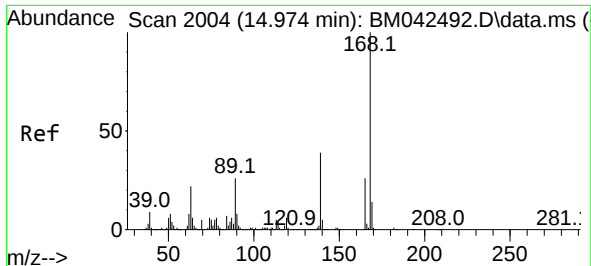
Ion Ratio Lower Upper

139 100

109 3.7 61.3 101.3#

65 6.6 100.2 140.2#





#57

2,4-Dinitrotoluene

Concen: 4.008 ng

RT: 14.945 min Scan# 1999

Delta R.T. -0.018 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

Tgt Ion:165 Resp: 114

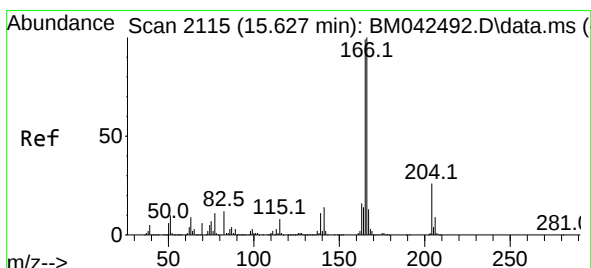
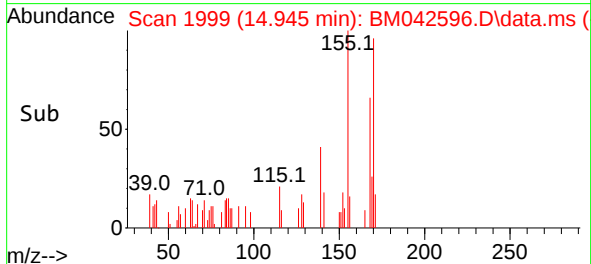
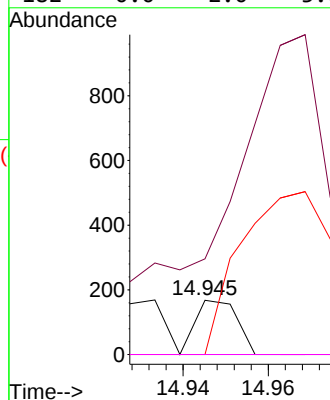
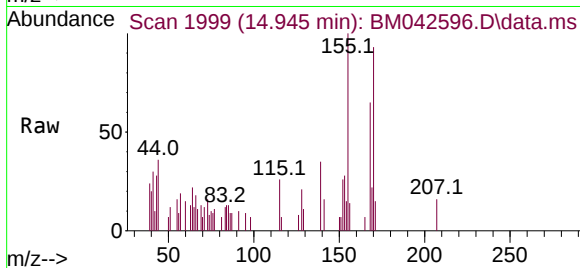
Ion Ratio Lower Upper

165 100

63 176.2 66.7 100.1#

89 0.0 80.2 120.4#

182 0.0 2.0 3.0#



#58

Fluorene

Concen: 2.667 ng

RT: 15.616 min Scan# 2113

Delta R.T. -0.000 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

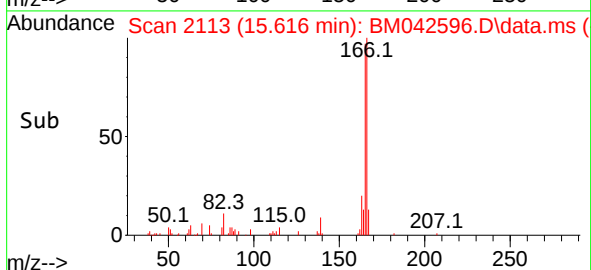
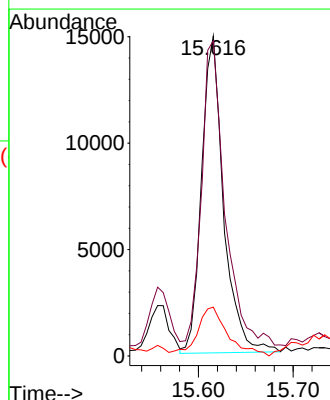
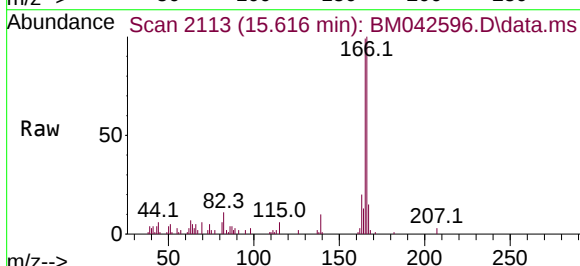
Tgt Ion:166 Resp: 24034

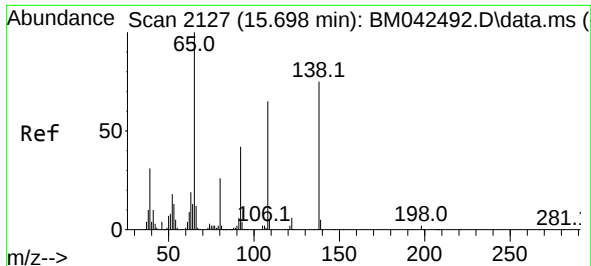
Ion Ratio Lower Upper

166 100

165 98.5 79.3 118.9

167 15.3 10.5 15.7

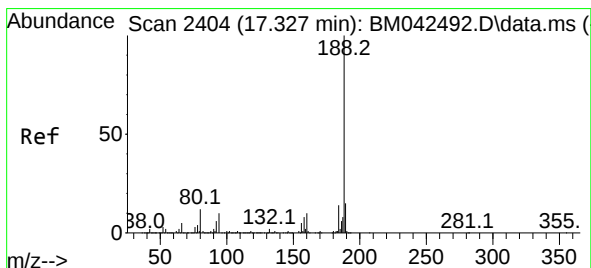
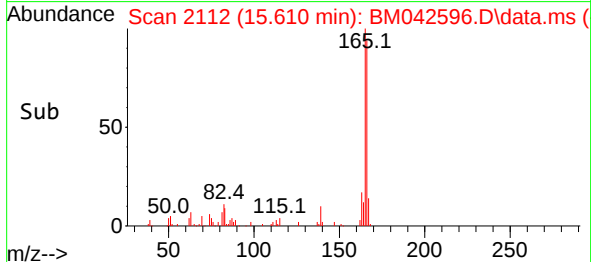
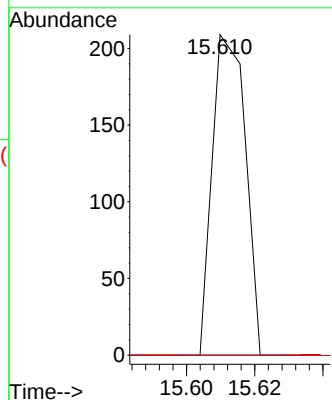
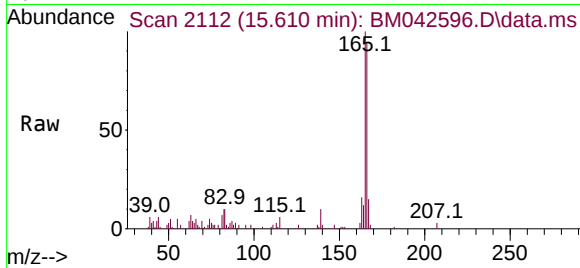




#62
4-Nitroaniline
Concen: 5.805 ng
RT: 15.610 min Scan# 2112
Delta R.T. -0.077 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

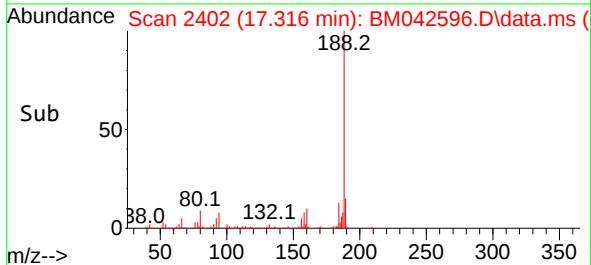
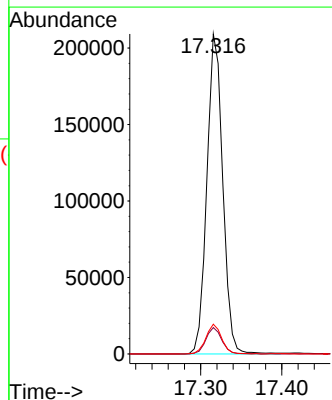
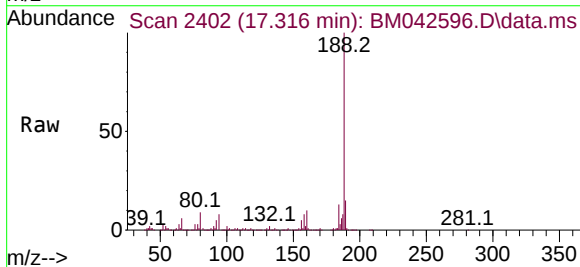
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

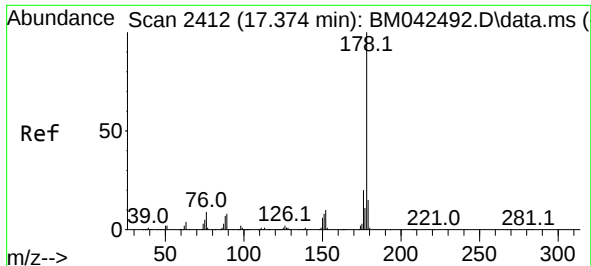
Tgt Ion:138 Resp: 141
Ion Ratio Lower Upper
138 100
92 0.0 37.0 77.0#
108 0.0 67.2 107.2#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.316 min Scan# 2402
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:188 Resp: 283567
Ion Ratio Lower Upper
188 100
94 8.2 8.2 12.4#
80 9.3 9.4 14.2#

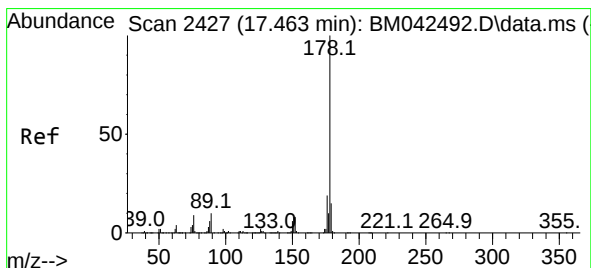
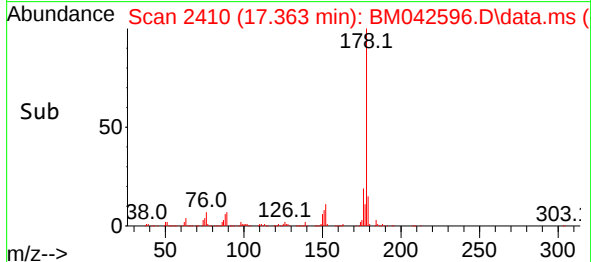
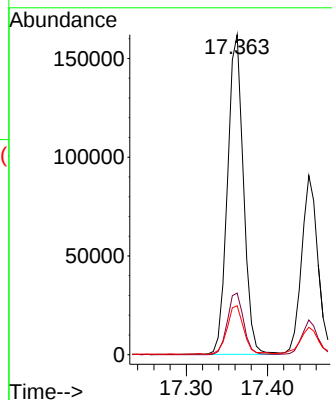
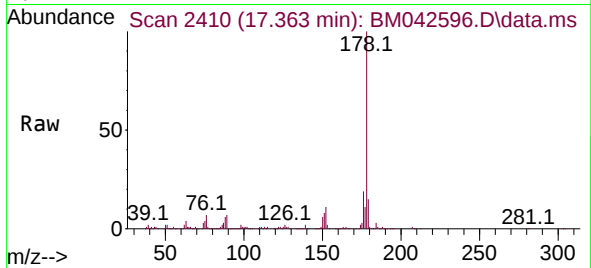




#71
Phenanthrene
Concen: 14.918 ng
RT: 17.363 min Scan# 2412
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

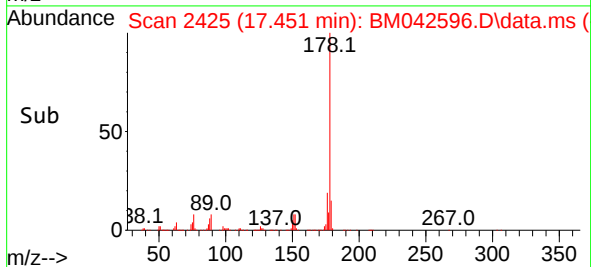
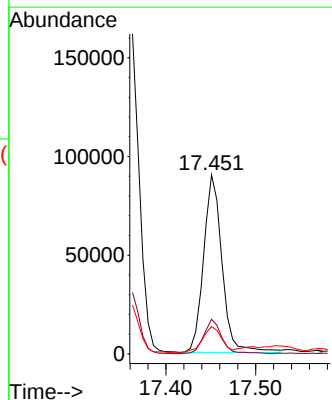
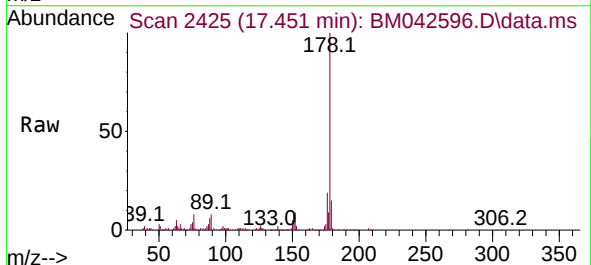
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

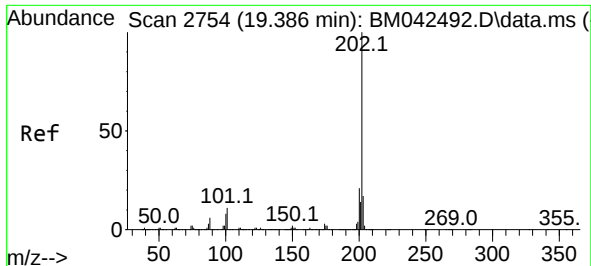
Tgt Ion:178 Resp: 221071
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.3 12.2 18.4



#72
Anthracene
Concen: 8.732 ng
RT: 17.451 min Scan# 2425
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:178 Resp: 128171
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 15.2 12.3 18.5

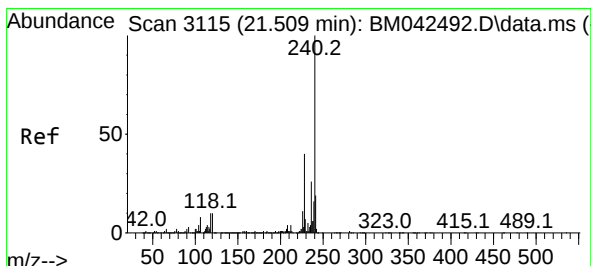
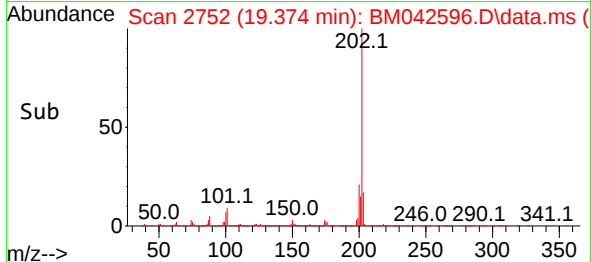
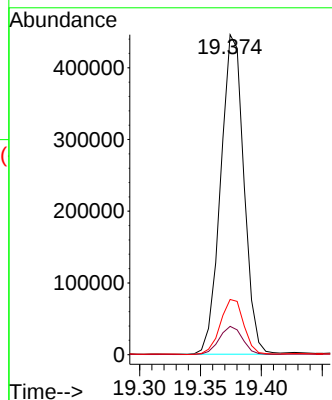
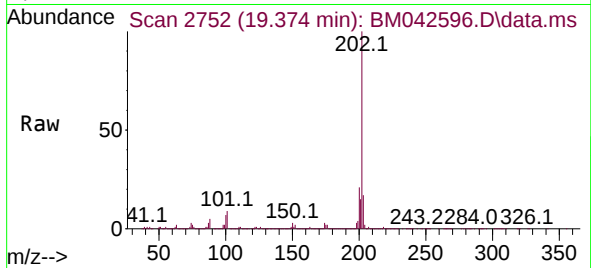




#75
Fluoranthene
Concen: 33.969 ng
RT: 19.374 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

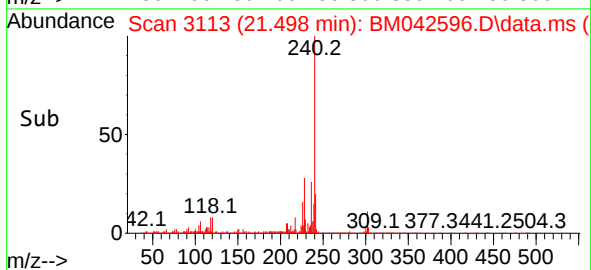
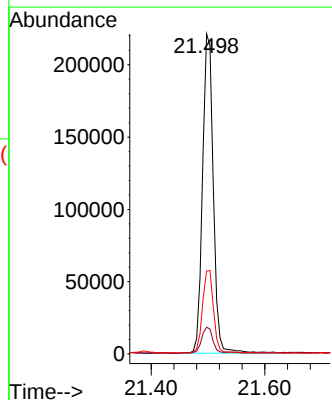
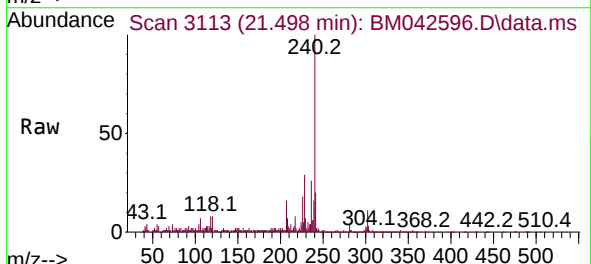
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

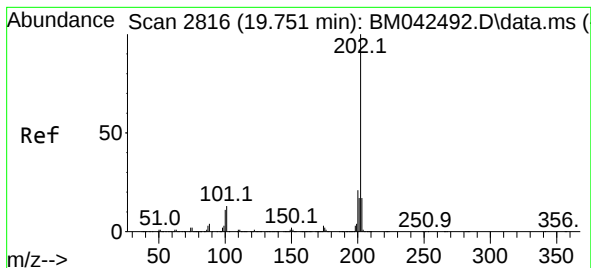
Tgt Ion:202 Resp: 591318
Ion Ratio Lower Upper
202 100
101 8.8 0.0 30.5
203 17.2 0.0 37.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.498 min Scan# 3113
Delta R.T. -0.006 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:240 Resp: 291361
Ion Ratio Lower Upper
240 100
120 8.4 8.3 12.5
236 25.9 20.8 31.2





#78

Pyrene

Concen: 29.563 ng

RT: 19.739 min Scan# 2816

Delta R.T. -0.000 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

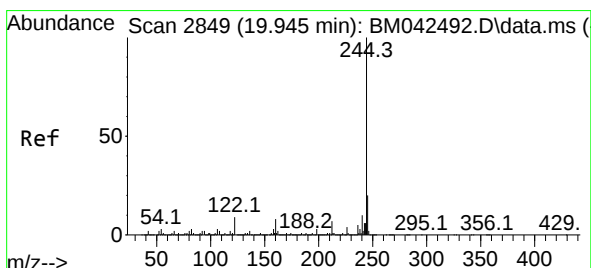
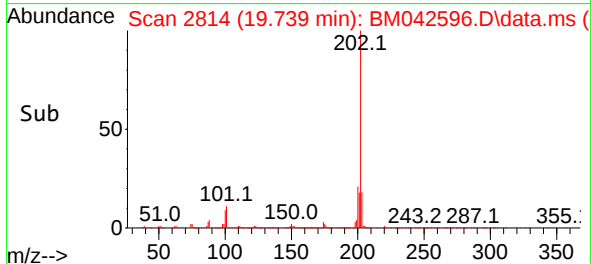
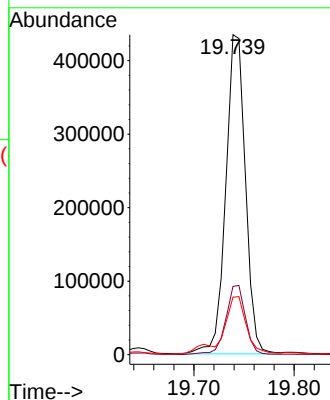
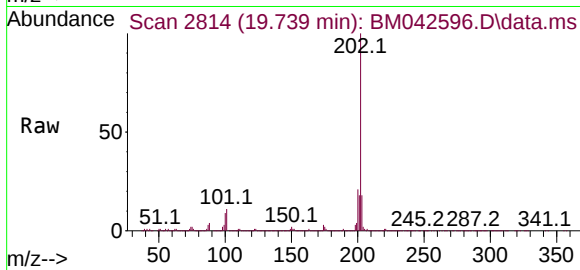
Tgt Ion:202 Resp: 591457

Ion Ratio Lower Upper

202 100

200 21.4 16.9 25.3

203 18.0 13.7 20.5



#79

Terphenyl-d14

Concen: 15.794 ng

RT: 19.933 min Scan# 2847

Delta R.T. -0.000 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

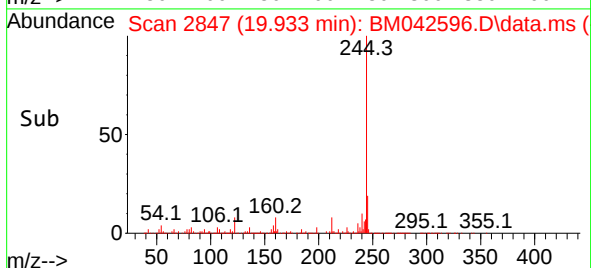
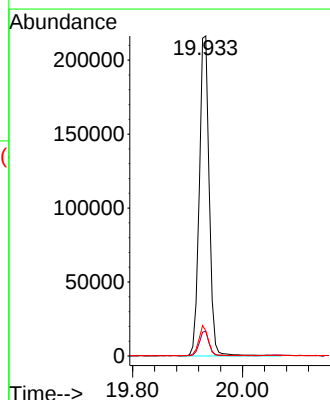
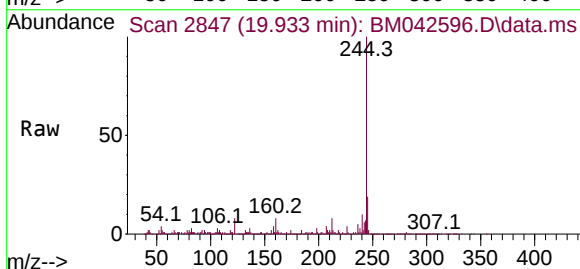
Tgt Ion:244 Resp: 271391

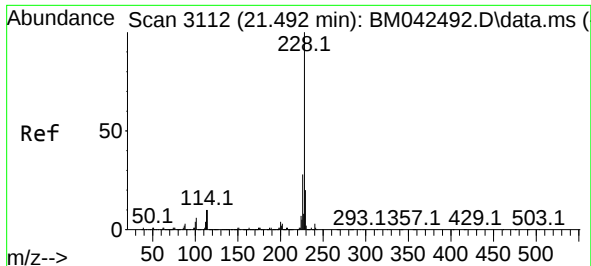
Ion Ratio Lower Upper

244 100

212 7.7 5.4 8.2

122 7.8 7.2 10.8

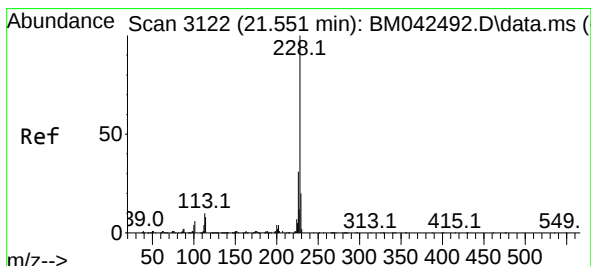
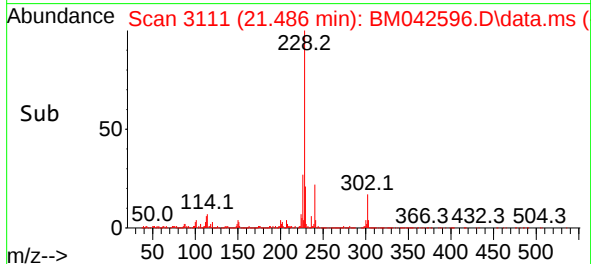
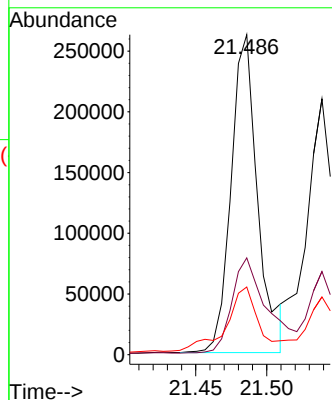
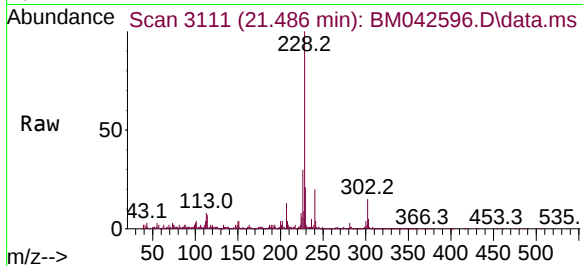




#81
Benzo(a)anthracene
Concen: 18.442 ng
RT: 21.486 min Scan# 3112
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

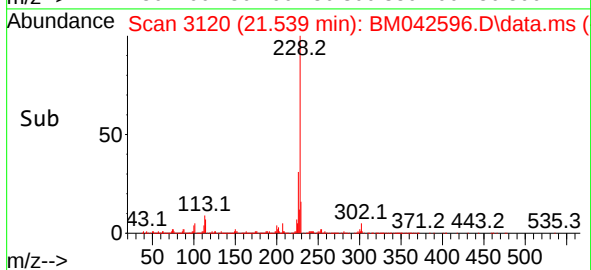
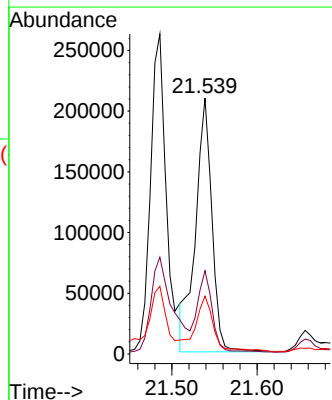
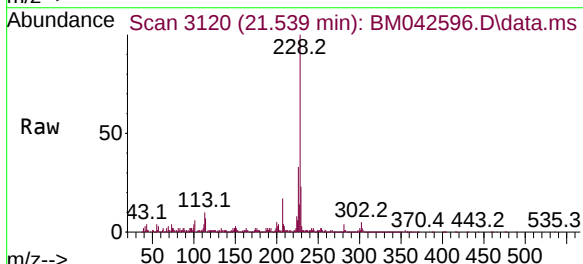
Instrument :
BNA_M
ClientSampleId :
Z-7(0-5)DL

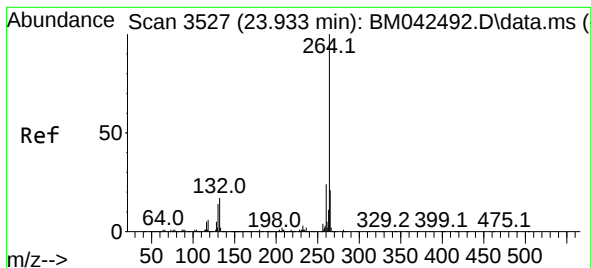
Tgt Ion:228 Resp: 341885
Ion Ratio Lower Upper
228 100
226 30.3 22.3 33.5
229 21.2 15.8 23.8



#83
Chrysene
Concen: 14.902 ng
RT: 21.539 min Scan# 3120
Delta R.T. -0.000 min
Lab File: BM042596.D
Acq: 04 Nov 2023 17:53

Tgt Ion:228 Resp: 280615
Ion Ratio Lower Upper
228 100
226 32.5 24.4 36.6
229 22.6 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.921 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

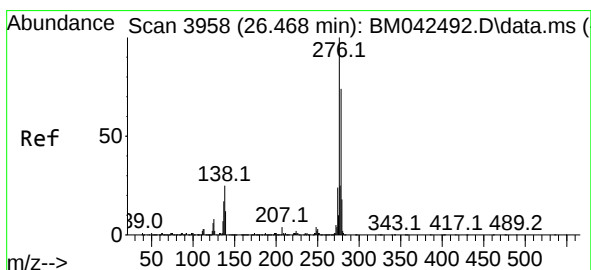
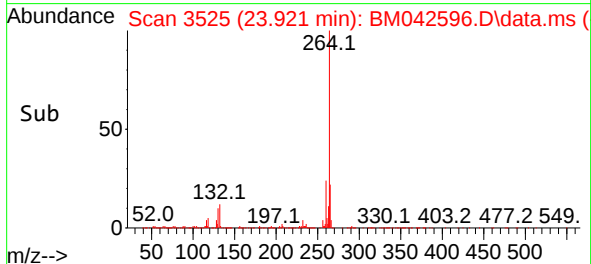
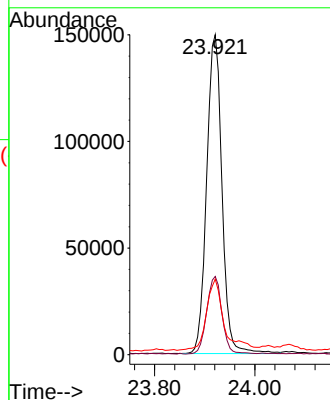
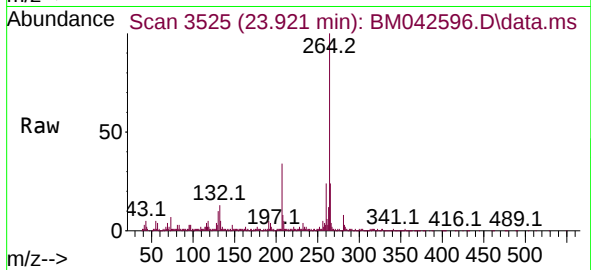
Tgt Ion:264 Resp: 317393

Ion Ratio Lower Upper

264 100

260 24.4 19.0 28.4

265 23.6 18.7 28.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.607 ng

RT: 26.444 min Scan# 3954

Delta R.T. -0.006 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

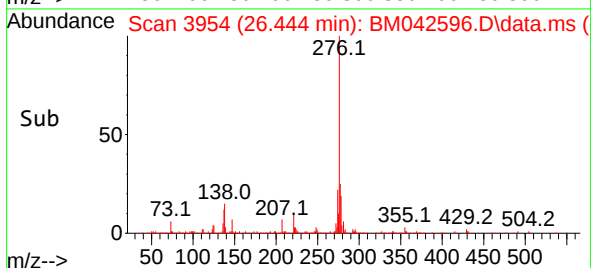
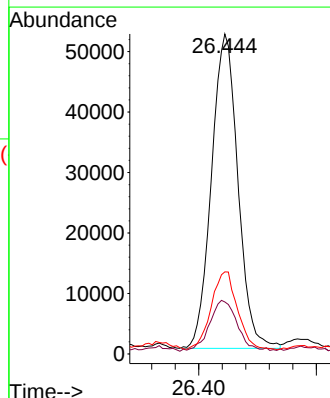
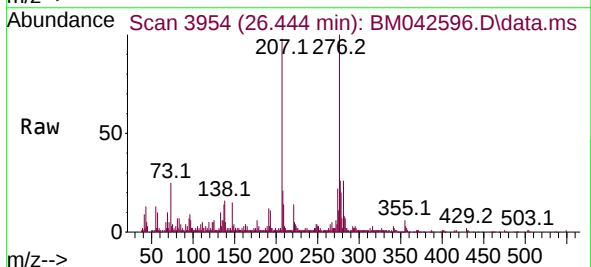
Tgt Ion:276 Resp: 162582

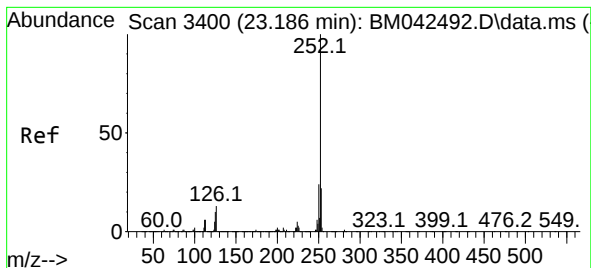
Ion Ratio Lower Upper

276 100

138 17.1 20.6 31.0#

277 24.4 19.5 29.3





#88

Benzo(b)fluoranthene

Concen: 19.974 ng

RT: 23.174 min Scan# 31

Delta R.T. -0.000 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

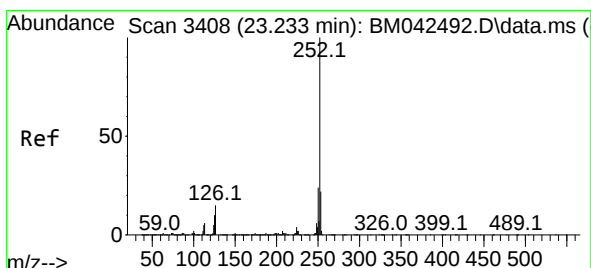
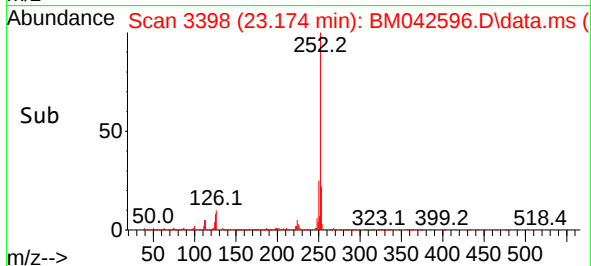
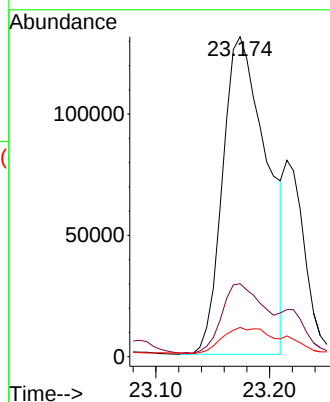
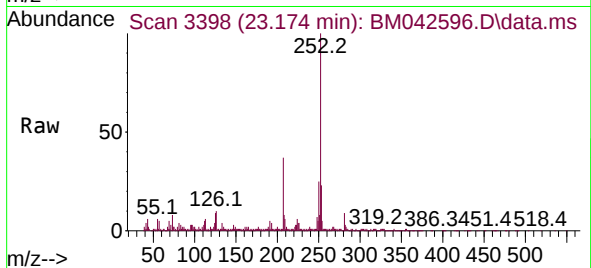
Tgt Ion:252 Resp: 353201

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 9.1 7.8 11.6



#89

Benzo(k)fluoranthene

Concen: 17.925 ng

RT: 23.174 min Scan# 3398

Delta R.T. -0.047 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

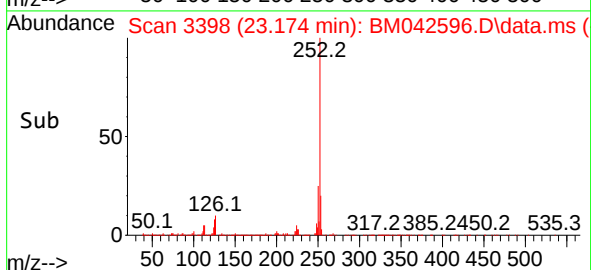
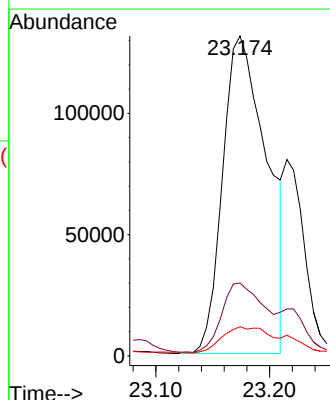
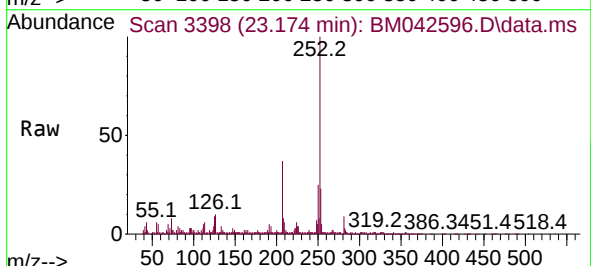
Tgt Ion:252 Resp: 353201

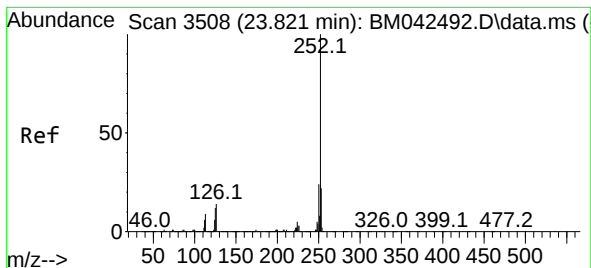
Ion Ratio Lower Upper

252 100

253 22.8 17.6 26.4

125 9.1 8.2 12.4





#90

Benzo(a)pyrene

Concen: 15.922 ng

RT: 23.809 min Scan# 3

Delta R.T. -0.000 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

Instrument :

BNA_M

ClientSampleId :

Z-7(0-5)DL

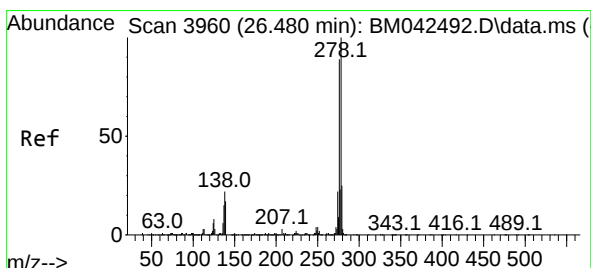
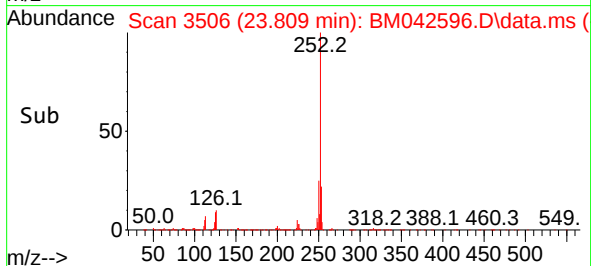
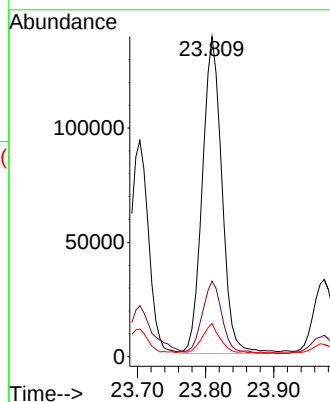
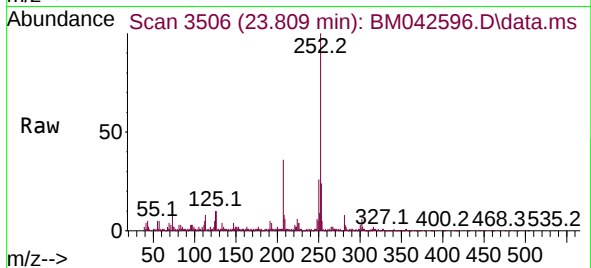
Tgt Ion:252 Resp: 277178

Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

125 10.3 9.4 14.2



#91

Dibenzo(a,h)anthracene

Concen: 6.375 ng

RT: 26.456 min Scan# 3956

Delta R.T. -0.012 min

Lab File: BM042596.D

Acq: 04 Nov 2023 17:53

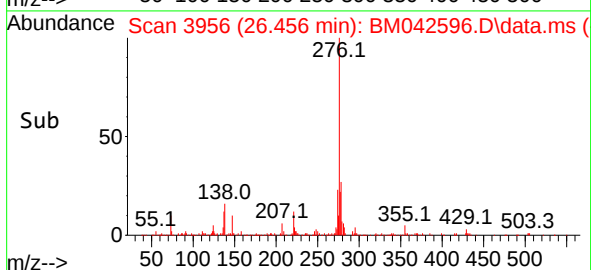
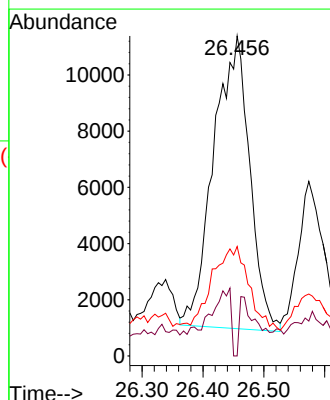
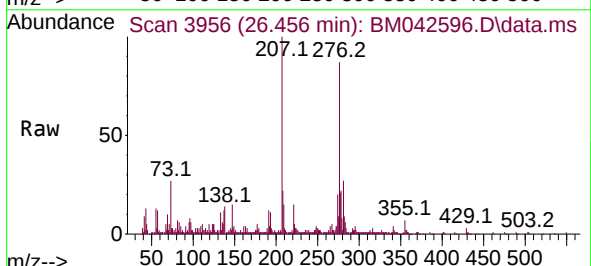
Tgt Ion:278 Resp: 42699

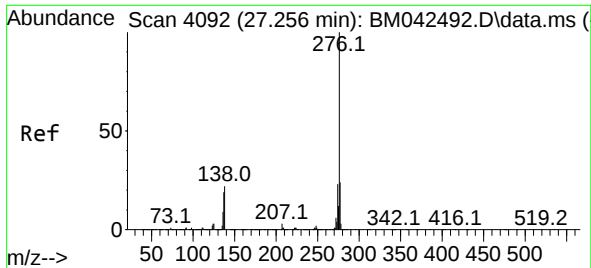
Ion Ratio Lower Upper

278 100

139 0.0 13.4 20.2#

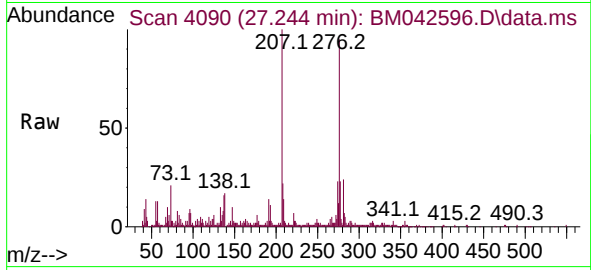
279 34.2 19.7 29.5#





#92
 Benzo(g,h,i)perylene
 Concen: 9.572 ng
 RT: 27.244 min Scan# 4090
 Delta R.T. -0.000 min
 Lab File: BM042596.D
 Acq: 04 Nov 2023 17:53

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



Tgt Ion:	276	Resp:	159366
Ion Ratio	Lower	Upper	
276	100		
277	23.9	19.2	28.8
138	17.5	17.3	25.9

