

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032223\
 Data File : BM039104.D
 Acq On : 22 Mar 2023 22:38
 Operator : CG/JU
 Sample : 01932-11
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CE-43-031423

Quant Time: Mar 23 04:27:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 22 03:36:20 2023
 Response via : Initial Calibration

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

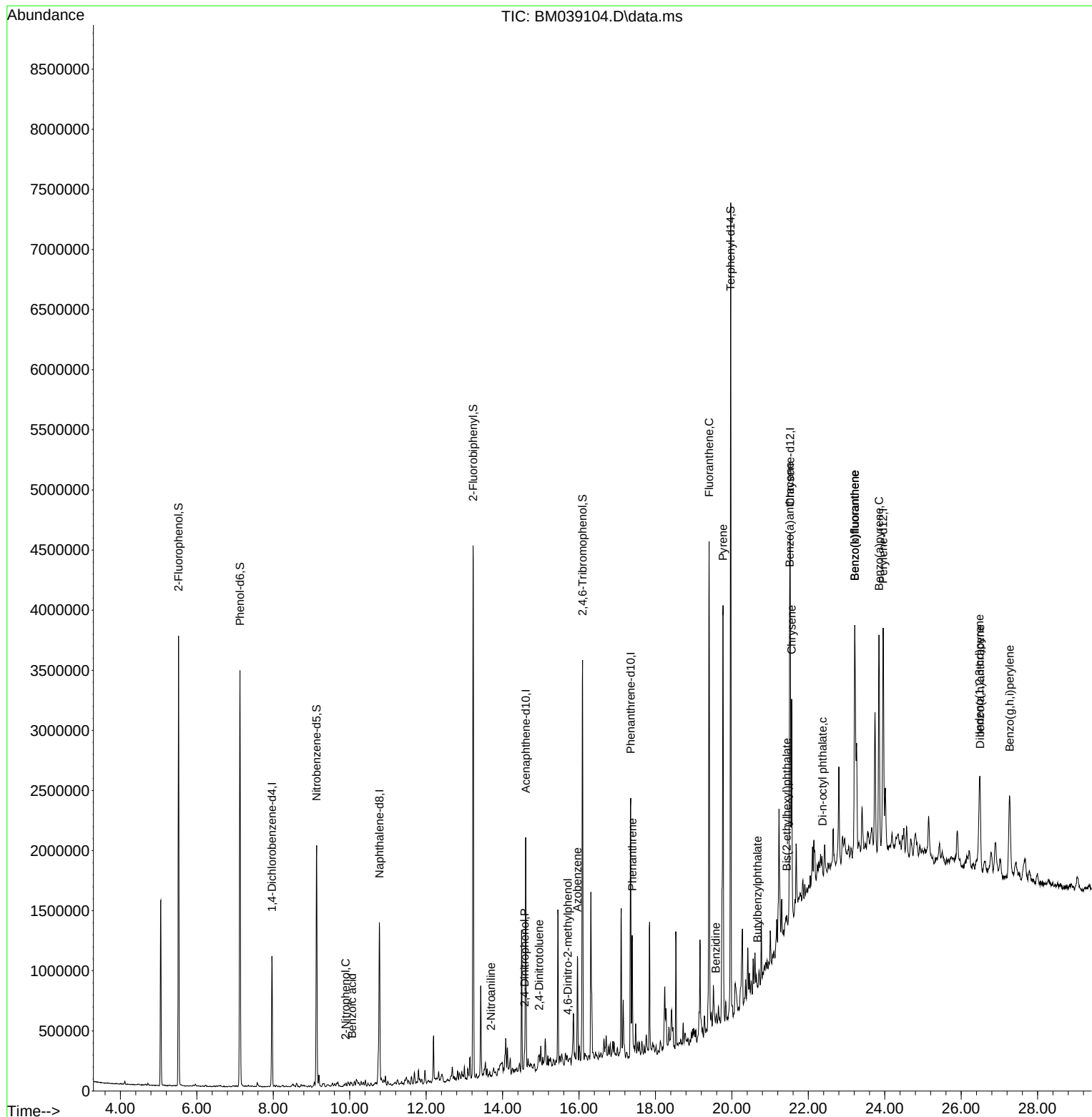
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.963	152	285333	20.000	ng	0.00
21) Naphthalene-d8	10.775	136	1103181	20.000	ng	0.00
39) Acenaphthene-d10	14.604	164	613460	20.000	ng	0.00
64) Phenanthrene-d10	17.351	188	1240131	20.000	ng	0.00
76) Chrysene-d12	21.527	240	1157327	20.000	ng	0.00
86) Perylene-d12	23.956	264	1342652	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1577257	83.983	ng	0.00
7) Phenol-d6	7.128	99	1986345	81.427	ng	0.00
23) Nitrobenzene-d5	9.134	82	1145650	51.012	ng	0.00
42) 2,4,6-Tribromophenol	16.092	330	560350	78.959	ng	0.00
45) 2-Fluorobiphenyl	13.227	172	2276528	48.309	ng	0.00
79) Terphenyl-d14	19.968	244	3044469	48.096	ng	0.00
Target Compounds						Qvalue
26) 2-Nitrophenol	9.892	139	117	3.001	ng	# 1
32) Benzoic acid	10.057	122	138	5.742	ng	# 1
48) 2-Nitroaniline	13.698	65	608	2.262	ng	# 54
54) 2,4-Dinitrophenol	14.574	184	55	5.199	ng	# 1
57) 2,4-Dinitrotoluene	14.957	165	223	2.087	ng	# 73
63) Azobenzene	15.957	77	241778	4.975	ng	# 1
65) 4,6-Dinitro-2-methylph...	15.704	198	139	5.103	ng	# 1
71) Phenanthrene	17.392	178	565646	7.772	ng	100
75) Fluoranthene	19.404	202	1916532	24.939	ng	98
77) Benzidine	19.580	184	301	4.887	ng	# 1
78) Pyrene	19.768	202	2136786	24.582	ng	99
80) Butylbenzylphthalate	20.668	149	420	3.326	ng	# 38
81) Benzo(a)anthracene	21.509	228	1109800	13.316	ng	98
83) Chrysene	21.562	228	1006215	12.413	ng	98
84) Bis(2-ethylhexyl)phtha...	21.433	149	19458	2.830	ng	# 95
85) Di-n-octyl phthalate	22.374	149	1581	3.813	ng	# 77
87) Indeno(1,2,3-cd)pyrene	26.480	276	842781	8.249	ng	97
88) Benzo(b)fluoranthene	23.215	252	1596231	18.609	ng	93
89) Benzo(k)fluoranthene	23.215	252	1596231	17.881	ng	93
90) Benzo(a)pyrene	23.850	252	1243615	15.064	ng	98
91) Dibenzo(a,h)anthracene	26.497	278	208285	2.407	ng	# 84
92) Benzo(g,h,i)perylene	27.268	276	891824	10.535	ng	99

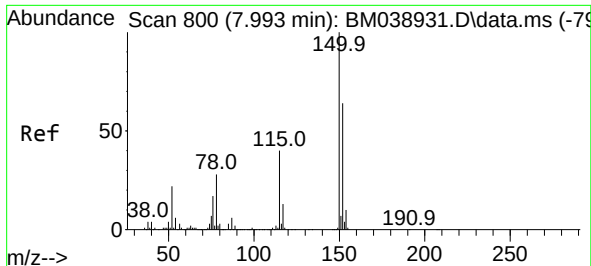
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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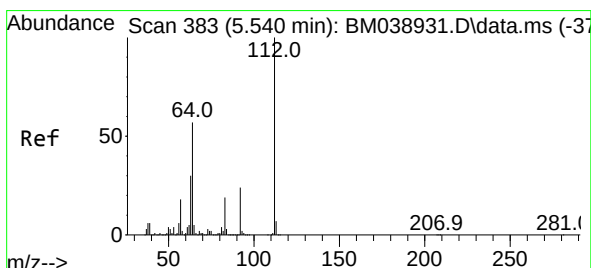
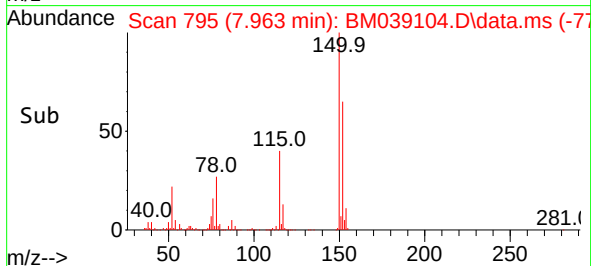
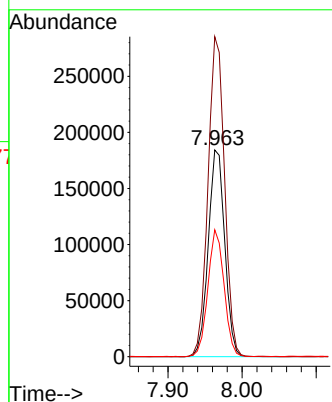
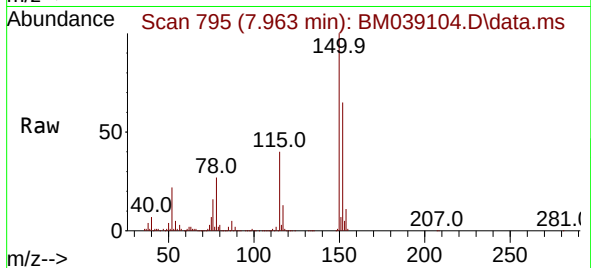




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.963 min Scan# 79
 Delta R.T. -0.006 min
 Lab File: BM039104.D
 Acq: 22 Mar 2023 22:38

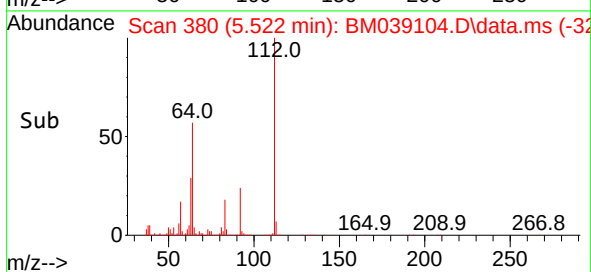
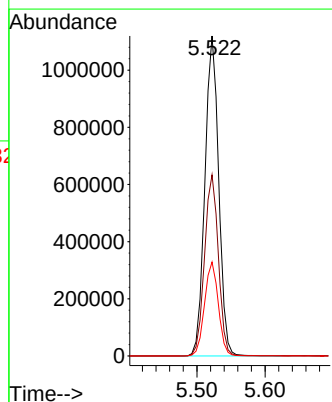
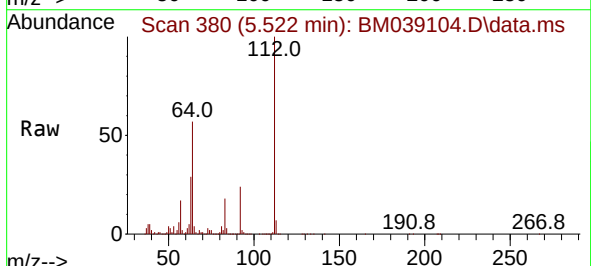
Instrument :
 BNA_M
 ClientSampleId :
 CE-43-031423

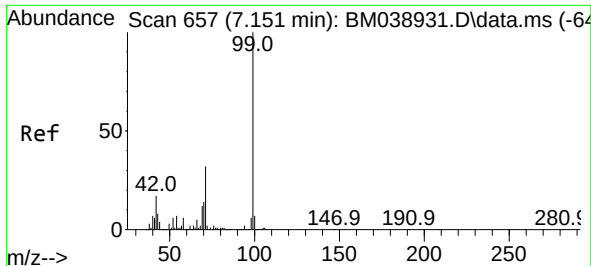
Tgt Ion:152 Resp: 285333
 Ion Ratio Lower Upper
 152 100
 150 154.8 125.1 187.7
 115 61.4 49.6 74.4



#5
 2-Fluorophenol
 Concen: 83.983 ng
 RT: 5.522 min Scan# 380
 Delta R.T. 0.000 min
 Lab File: BM039104.D
 Acq: 22 Mar 2023 22:38

Tgt Ion:112 Resp: 1577257
 Ion Ratio Lower Upper
 112 100
 64 56.6 45.9 68.9
 63 29.3 23.8 35.8



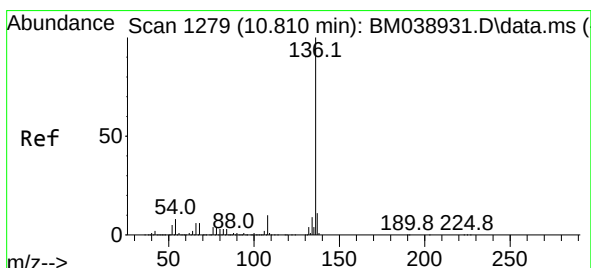
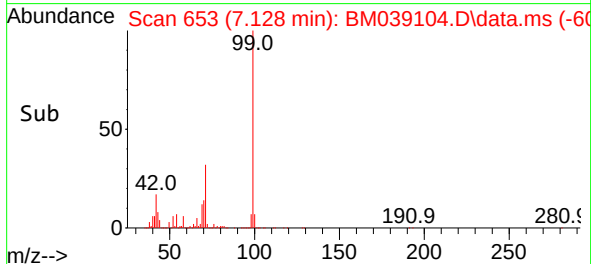
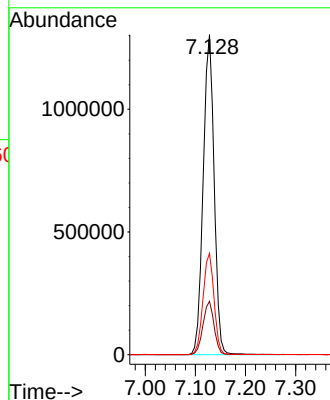
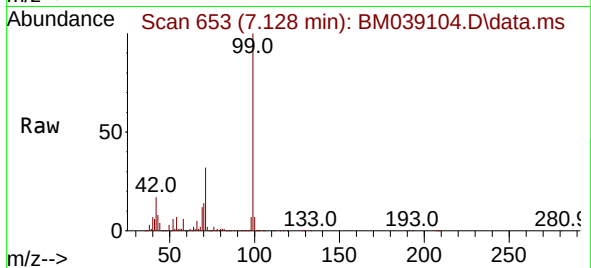


#7
Phenol-d6
Concen: 81.427 ng
RT: 7.128 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Instrument :
BNA_M
ClientSampleId :
CE-43-031423

Tgt Ion: 99 Resp: 1986345

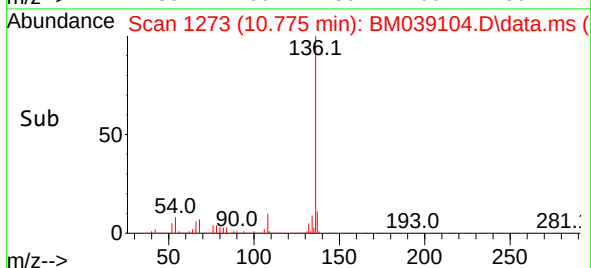
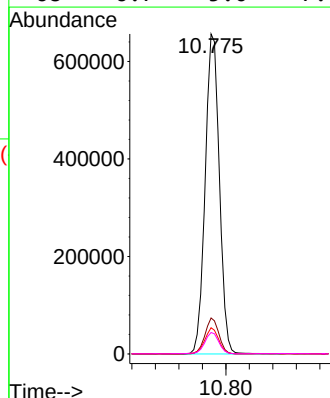
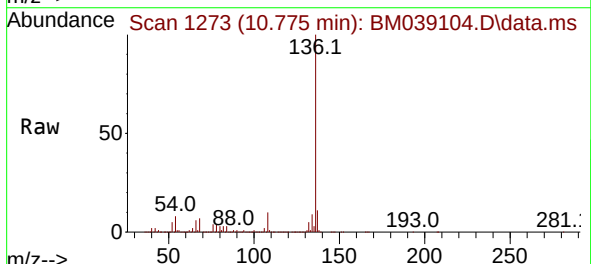
Ion	Ratio	Lower	Upper
99	100		
42	16.7	13.5	20.3
71	31.7	25.6	38.4

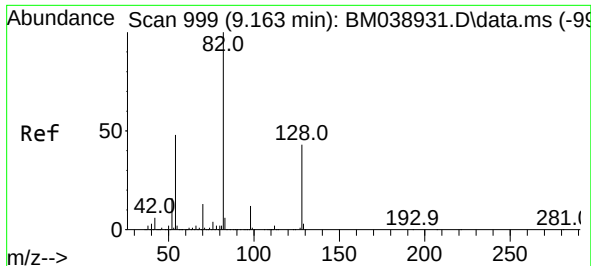


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Tgt Ion: 136 Resp: 1103181

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	8.2	6.3	9.5
68	6.7	5.0	7.6

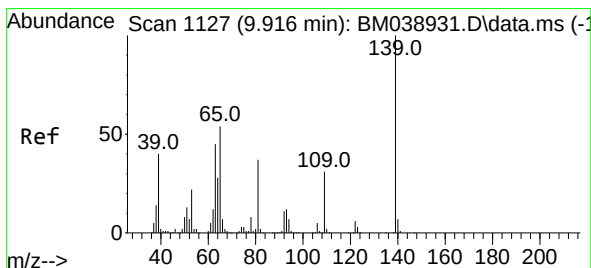
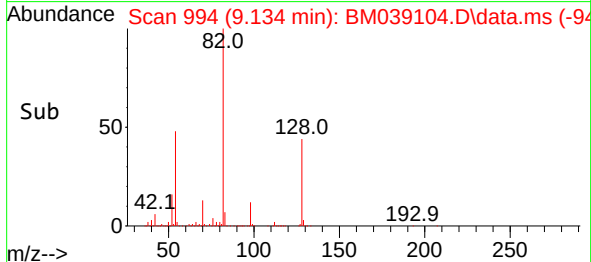
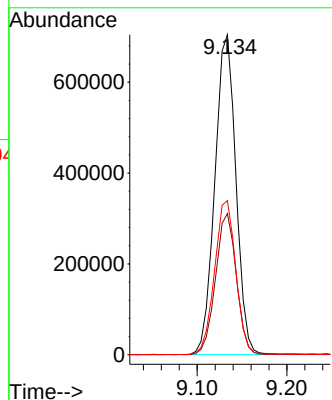
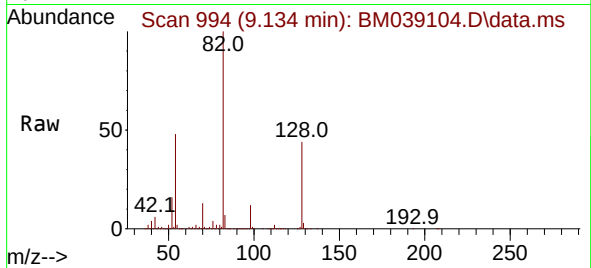




#23
Nitrobenzene-d5
Concen: 51.012 ng
RT: 9.134 min Scan# 994
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

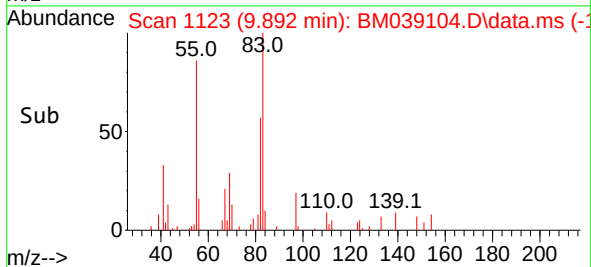
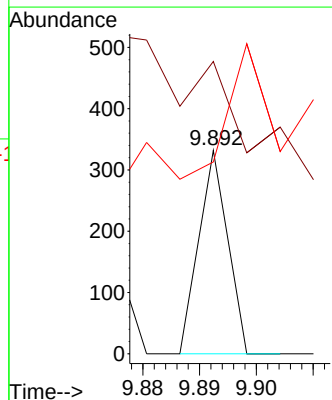
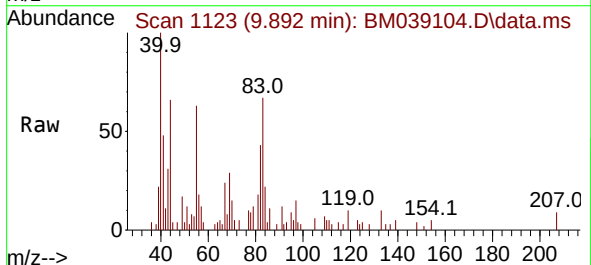
Instrument :
BNA_M
ClientSampleId :
CE-43-031423

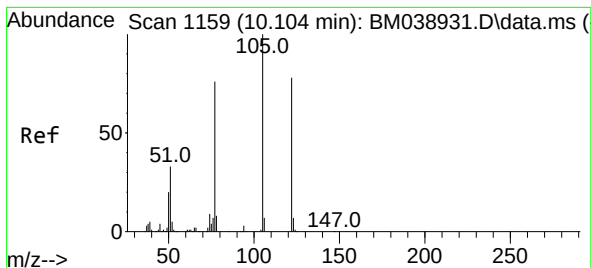
Tgt Ion: 82 Resp: 1145650
Ion Ratio Lower Upper
82 100
128 44.1 34.4 51.6
54 48.2 38.8 58.2



#26
2-Nitrophenol
Concen: 3.001 ng
RT: 9.892 min Scan# 1123
Delta R.T. 0.000 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Tgt Ion:139 Resp: 117
Ion Ratio Lower Upper
139 100
109 143.7 24.5 36.7#
65 94.3 43.0 64.6#





#32

Benzoic acid

Concen: 5.742 ng

RT: 10.057 min Scan# 1151

Delta R.T. -0.029 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

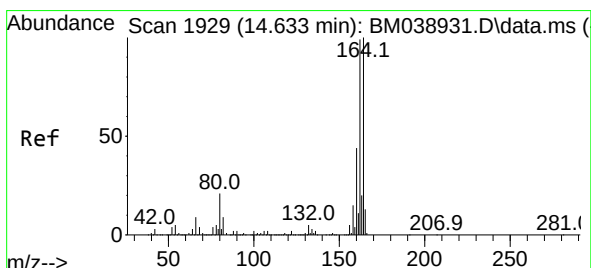
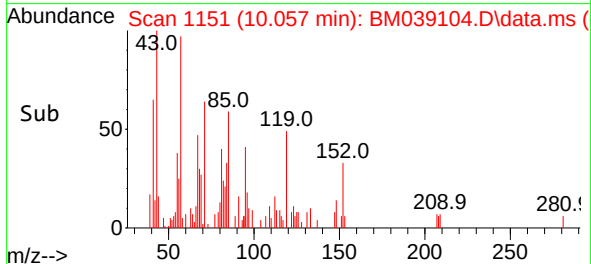
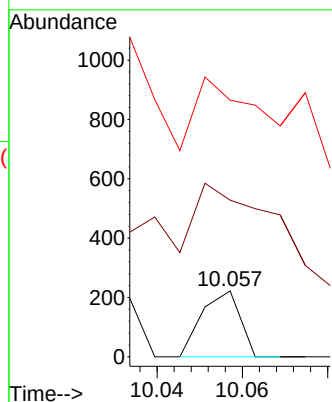
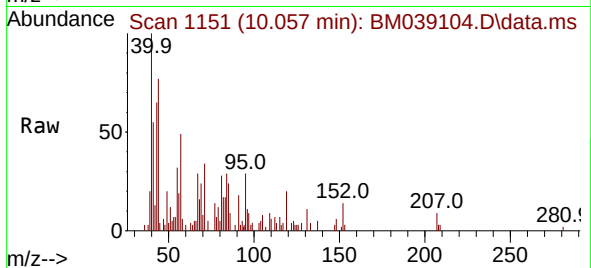
Tgt Ion:122 Resp: 138

Ion Ratio Lower Upper

122 100

105 237.8 104.2 144.2#

77 389.6 75.1 115.1#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.604 min Scan# 1924

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

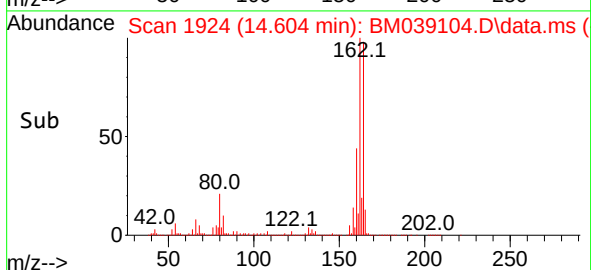
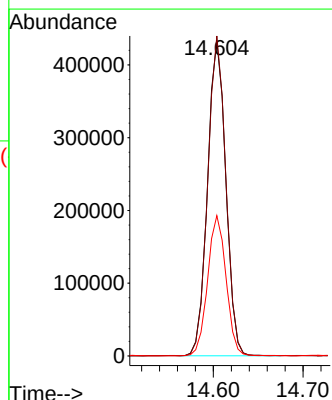
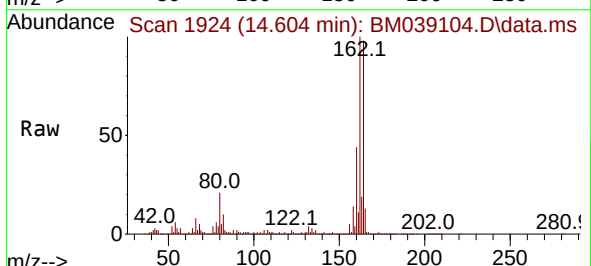
Tgt Ion:164 Resp: 613460

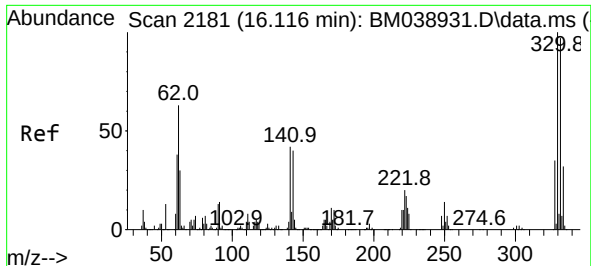
Ion Ratio Lower Upper

164 100

162 101.6 79.2 118.8

160 44.5 35.5 53.3

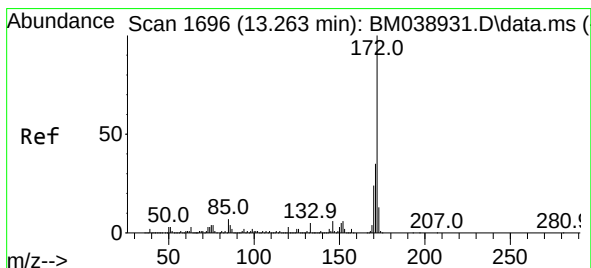
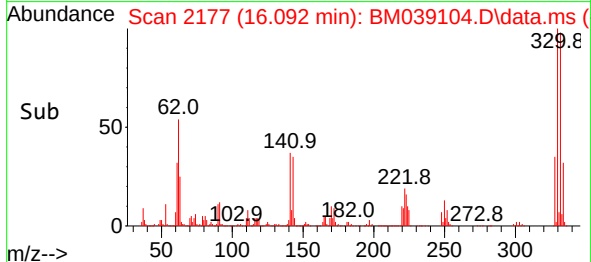
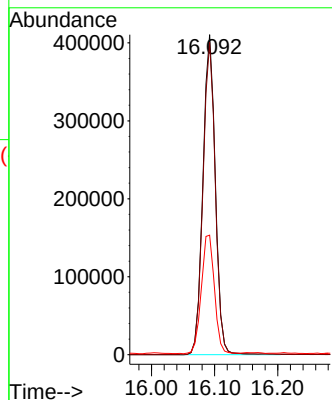
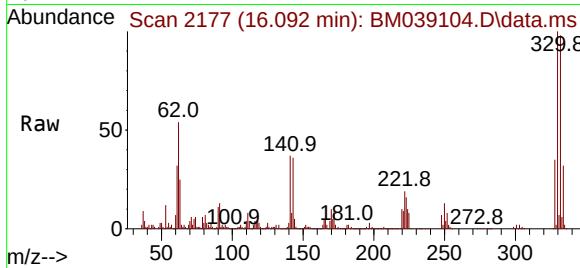




#42
2,4,6-Tribromophenol
Concen: 78.959 ng
RT: 16.092 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

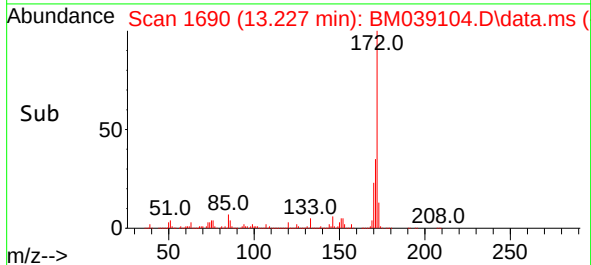
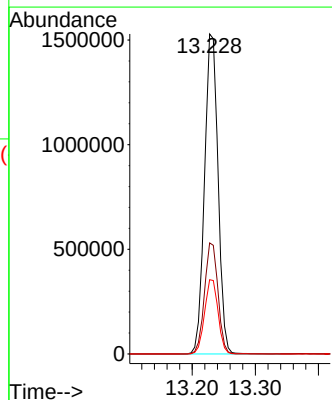
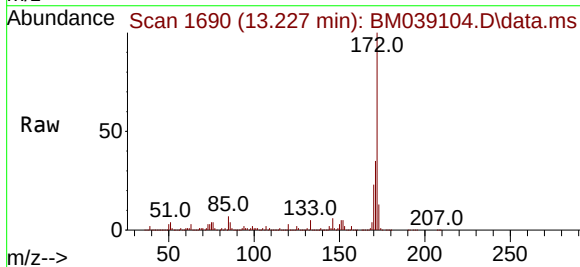
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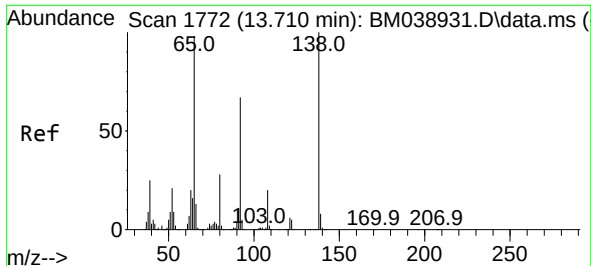
Tgt Ion:330 Resp: 560350
Ion Ratio Lower Upper
330 100
332 97.0 77.4 116.0
141 38.9 32.2 48.4



#45
2-Fluorobiphenyl
Concen: 48.309 ng
RT: 13.227 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Tgt Ion:172 Resp: 2276528
Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.2
170 23.2 19.1 28.7

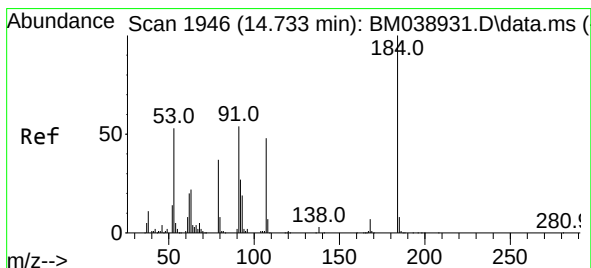
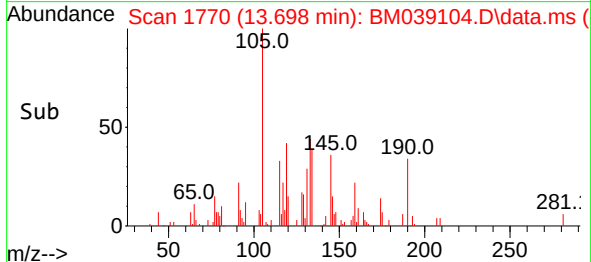
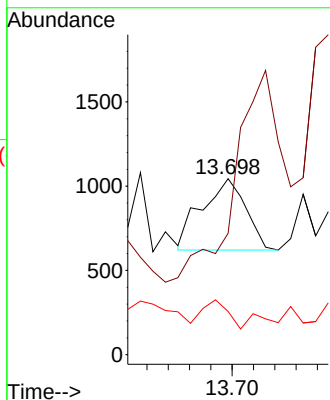
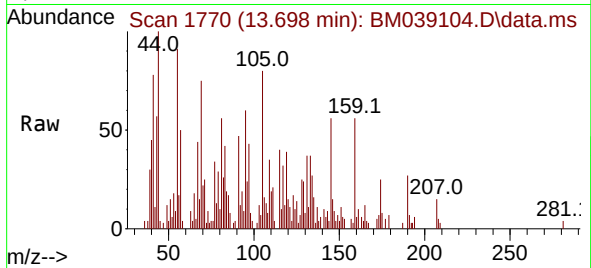




#48
2-Nitroaniline
Concen: 2.262 ng
RT: 13.698 min Scan# 11
Delta R.T. 0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

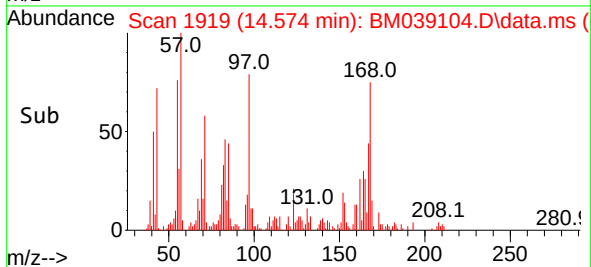
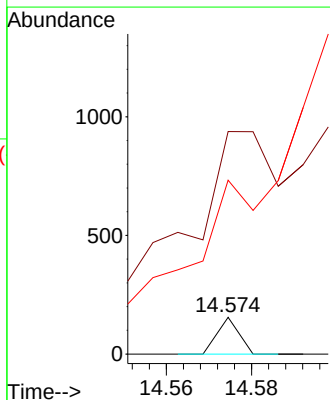
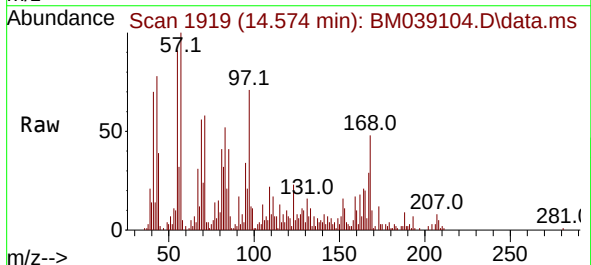
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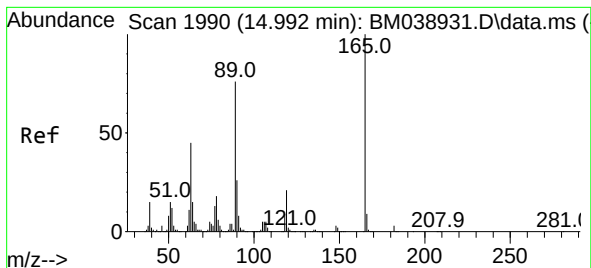
Tgt Ion: 65 Resp: 608
Ion Ratio Lower Upper
65 100
92 69.1 54.9 82.3
138 24.5 81.6 122.4#



#54
2,4-Dinitrophenol
Concen: 5.199 ng
RT: 14.574 min Scan# 1919
Delta R.T. -0.141 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Tgt Ion:184 Resp: 55
Ion Ratio Lower Upper
184 100
63 605.2 60.6 90.8#
154 472.9 51.4 77.2#

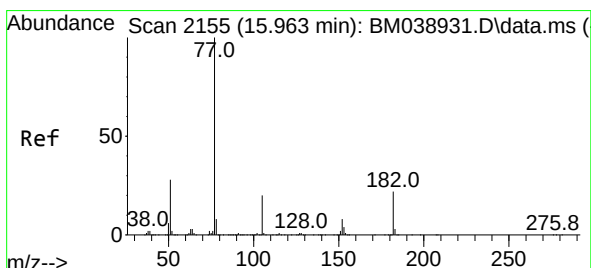
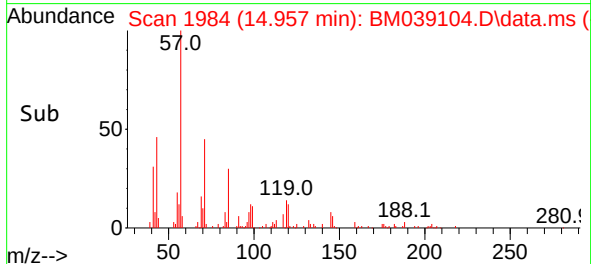
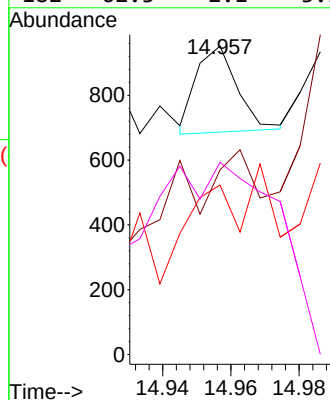
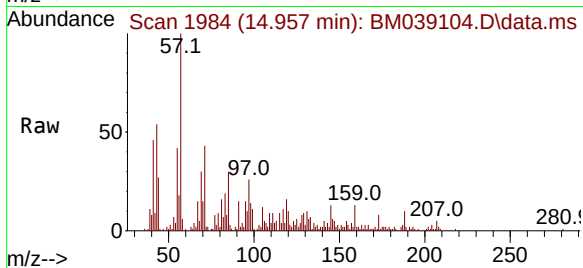




#57
2,4-Dinitrotoluene
Concen: 2.087 ng
RT: 14.957 min Scan# 1990
Delta R.T. -0.012 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

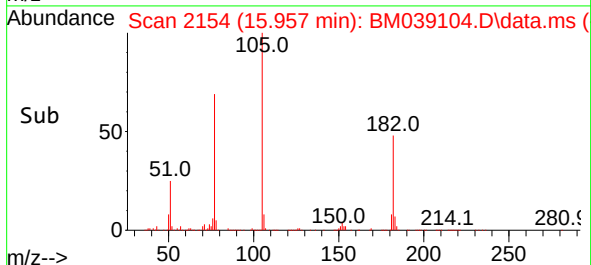
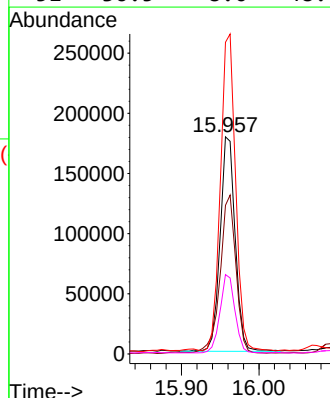
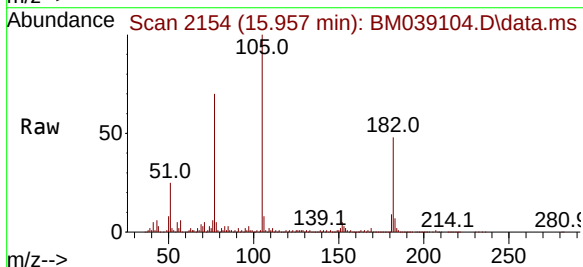
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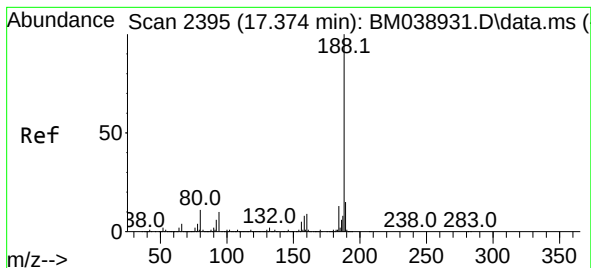
Tgt Ion:165 Resp: 223
Ion Ratio Lower Upper
165 100
63 59.9 35.9 53.9#
89 54.9 61.0 91.6#
182 62.3 2.1 3.1#



#63
Azobenzene
Concen: 4.975 ng
RT: 15.957 min Scan# 2154
Delta R.T. 0.018 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Tgt Ion: 77 Resp: 241778
Ion Ratio Lower Upper
77 100
182 68.5 2.0 42.0#
105 143.6 0.4 40.4#
51 36.5 8.0 48.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.351 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

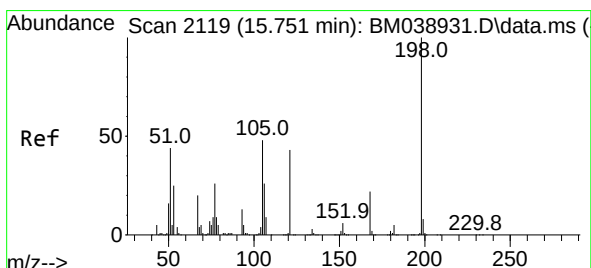
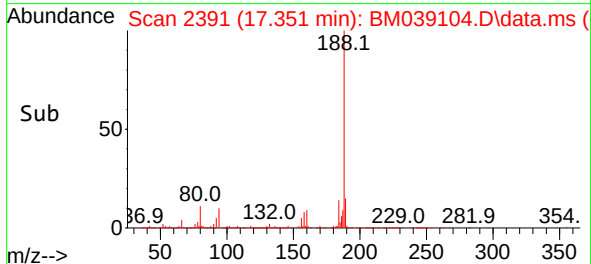
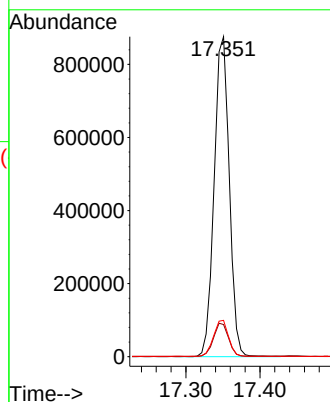
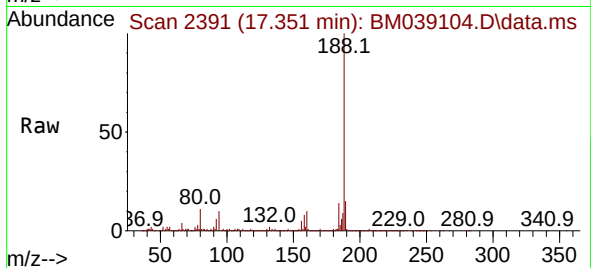
Tgt Ion:188 Resp: 1240131

Ion Ratio Lower Upper

188 100

94 10.1 7.9 11.9

80 11.3 8.5 12.7



#65

4,6-Dinitro-2-methylphenol

Concen: 5.103 ng

RT: 15.704 min Scan# 2111

Delta R.T. -0.029 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

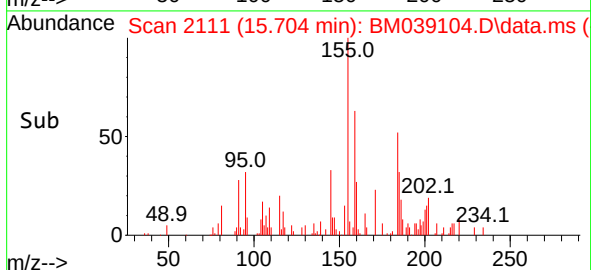
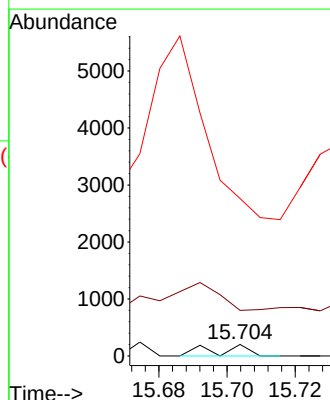
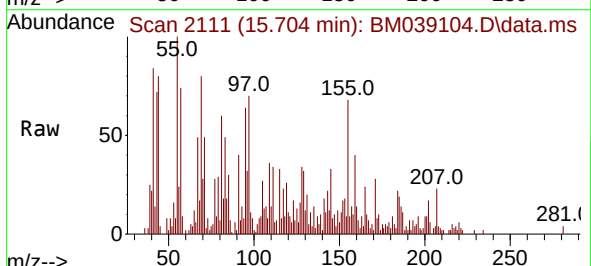
Tgt Ion:198 Resp: 139

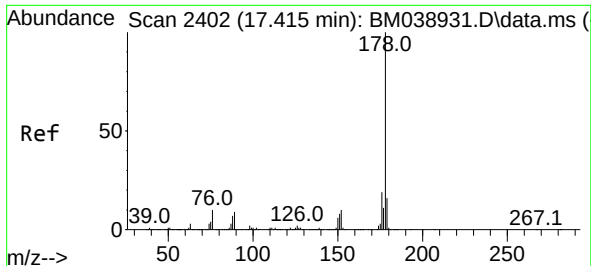
Ion Ratio Lower Upper

198 100

51 392.2 30.1 70.1#

105 1353.9 29.3 69.3#

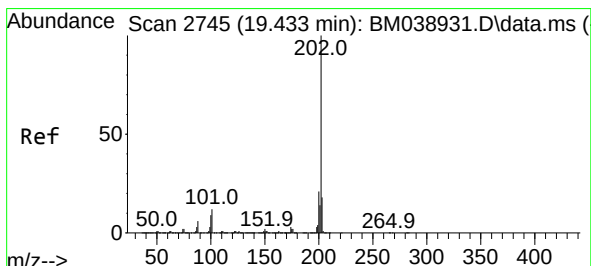
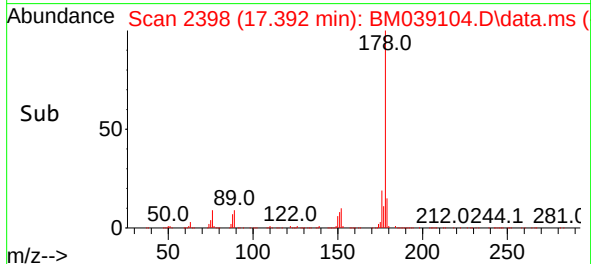
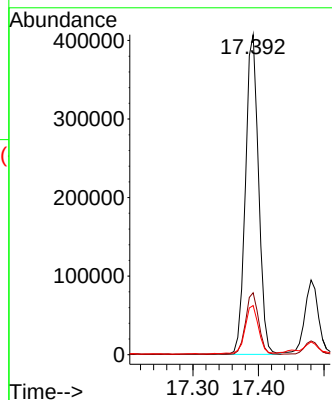
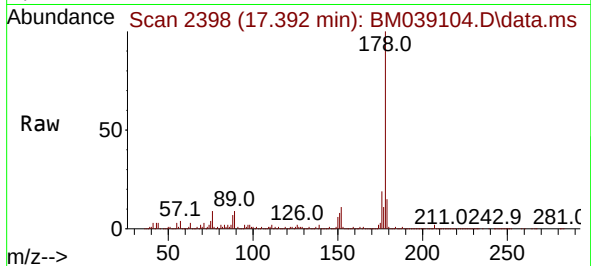




#71
Phenanthrene
Concen: 7.772 ng
RT: 17.392 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

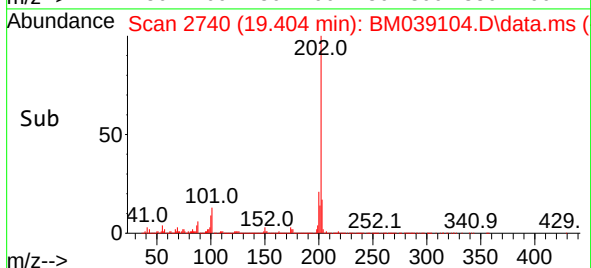
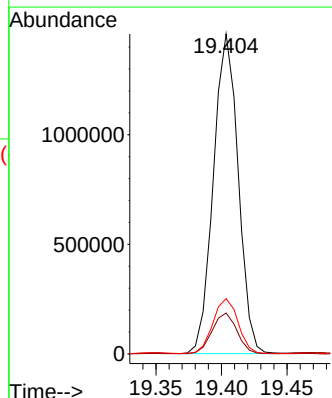
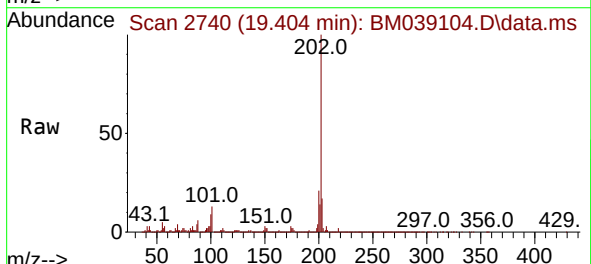
Instrument :
BNA_M
ClientSampleId :
CE-43-031423

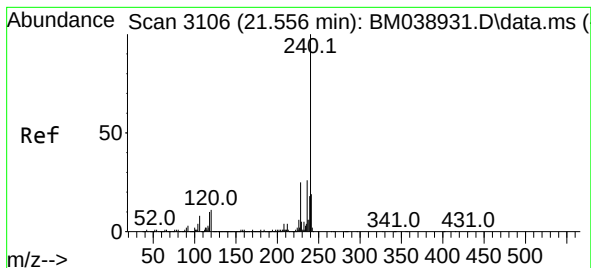
Tgt Ion:178 Resp: 565646
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.4 12.5 18.7



#75
Fluoranthene
Concen: 24.939 ng
RT: 19.404 min Scan# 2740
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Tgt Ion:202 Resp: 1916532
Ion Ratio Lower Upper
202 100
101 12.8 0.0 31.7
203 17.3 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.527 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

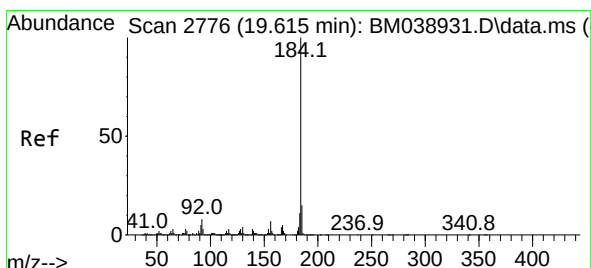
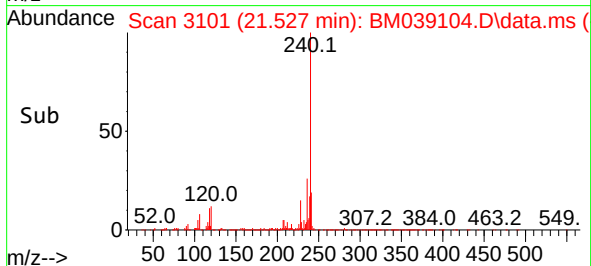
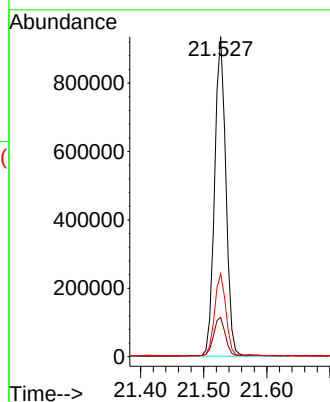
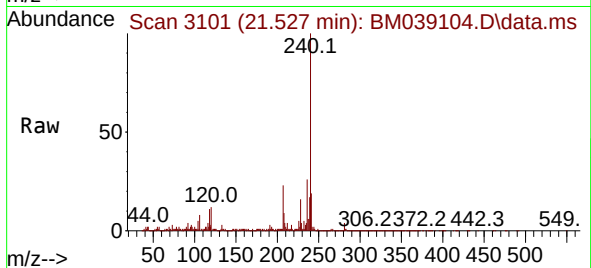
Tgt Ion:240 Resp: 1157327

Ion Ratio Lower Upper

240 100

120 12.3 9.2 13.8

236 25.9 20.8 31.2



#77

Benzidine

Concen: 4.887 ng

RT: 19.580 min Scan# 2770

Delta R.T. -0.012 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

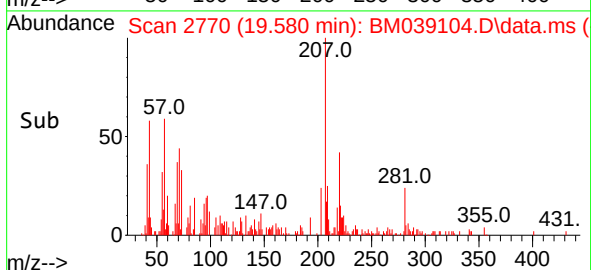
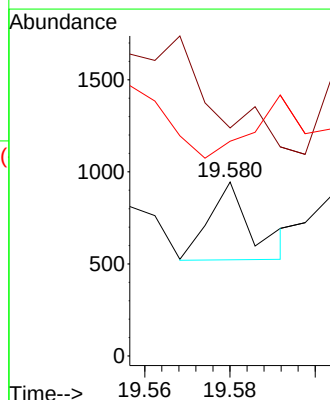
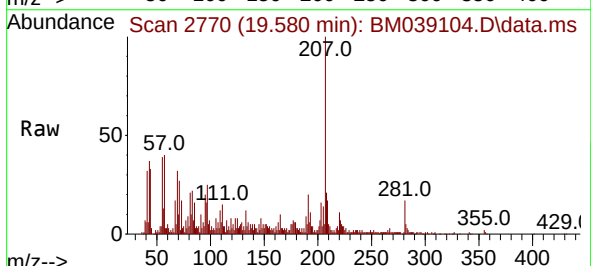
Tgt Ion:184 Resp: 301

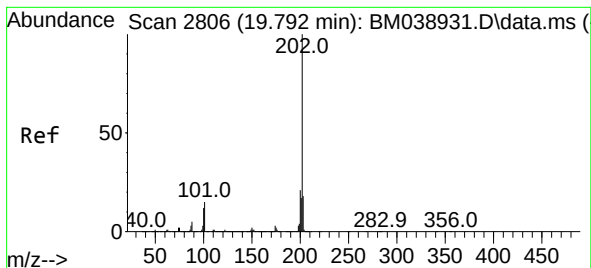
Ion Ratio Lower Upper

184 100

185 131.0 12.2 18.4#

183 123.4 8.8 13.2#





#78

Pyrene

Concen: 24.582 ng

RT: 19.768 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

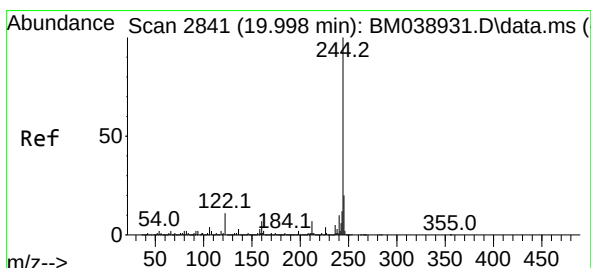
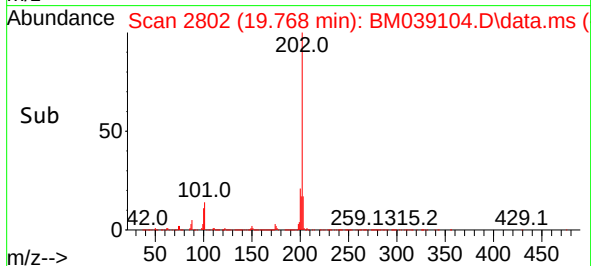
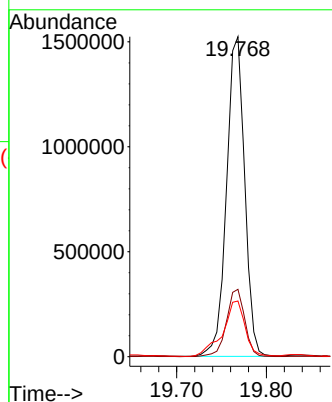
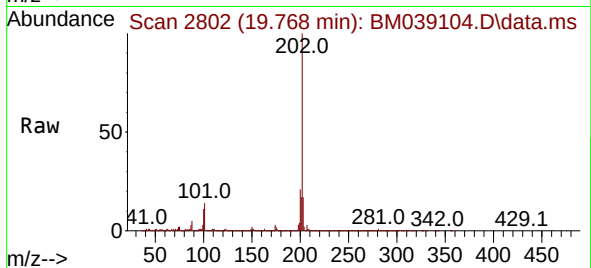
Tgt Ion:202 Resp: 2136786

Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 17.4 14.1 21.1



#79

Terphenyl-d14

Concen: 48.096 ng

RT: 19.968 min Scan# 2836

Delta R.T. 0.000 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

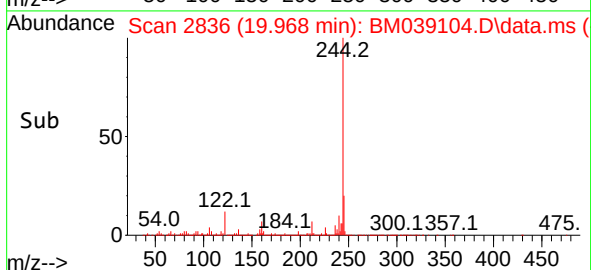
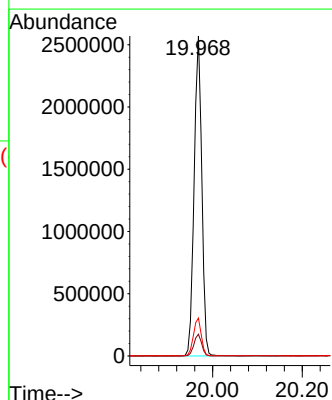
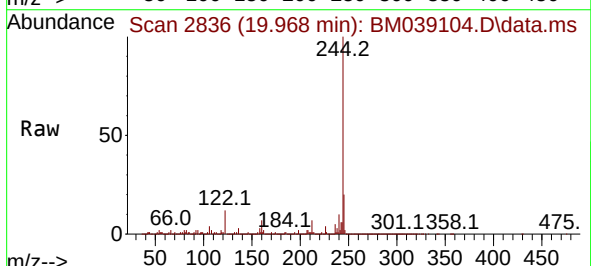
Tgt Ion:244 Resp: 3044469

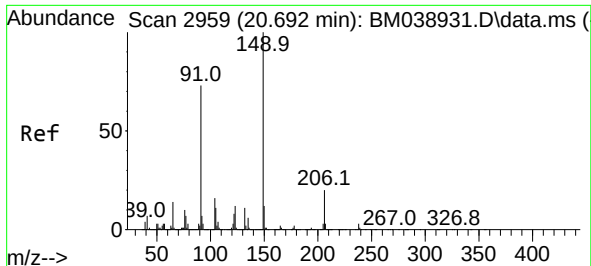
Ion Ratio Lower Upper

244 100

212 6.8 5.5 8.3

122 11.8 9.0 13.4

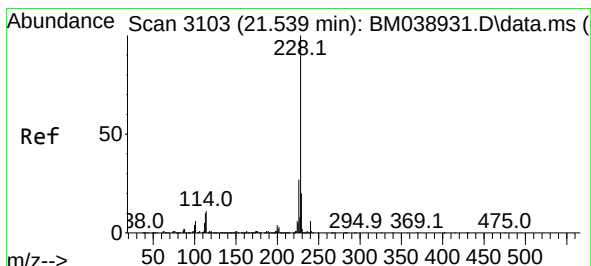
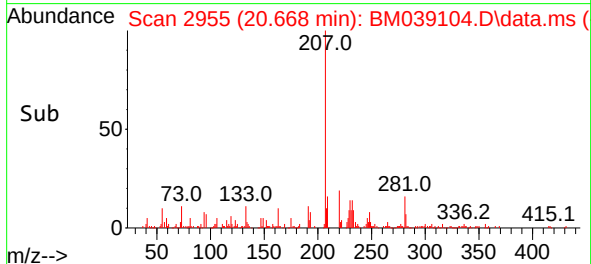
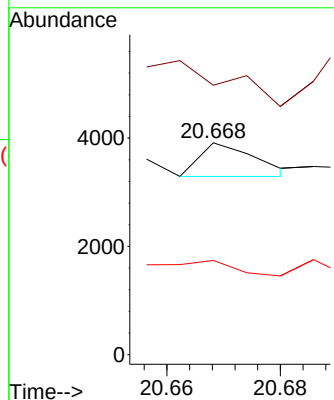
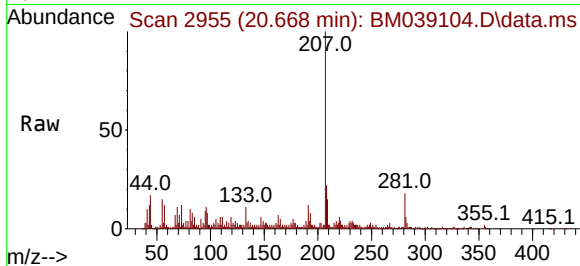




#80
Butylbenzylphthalate
Concen: 3.326 ng
RT: 20.668 min Scan# 2955
Delta R.T. 0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

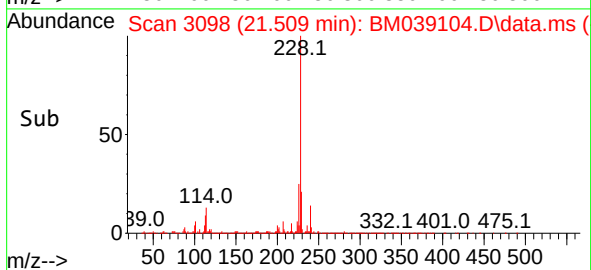
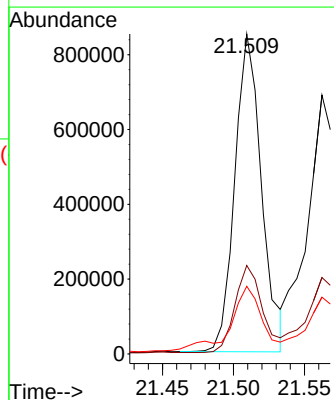
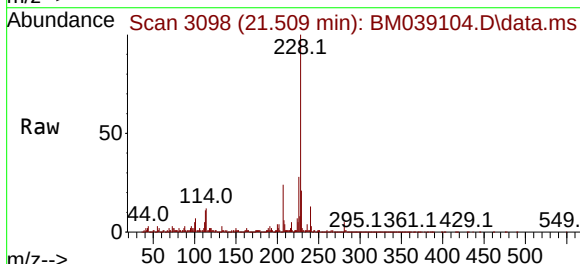
Instrument :
BNA_M
ClientSampleId :
CE-43-031423

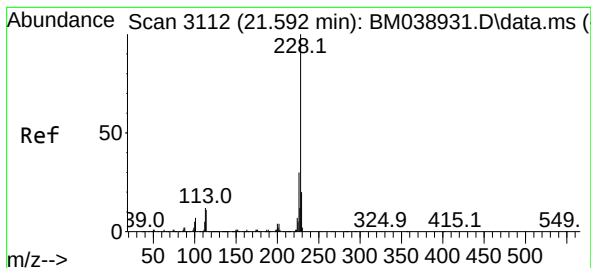
Tgt Ion:149 Resp: 420
Ion Ratio Lower Upper
149 100
91 127.2 58.4 87.6#
206 44.5 16.1 24.1#



#81
Benzo(a)anthracene
Concen: 13.316 ng
RT: 21.509 min Scan# 3098
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Tgt Ion:228 Resp: 1109800
Ion Ratio Lower Upper
228 100
226 27.7 21.4 32.2
229 21.2 15.7 23.5





#83

Chrysene

Concen: 12.413 ng

RT: 21.562 min Scan# 3112

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

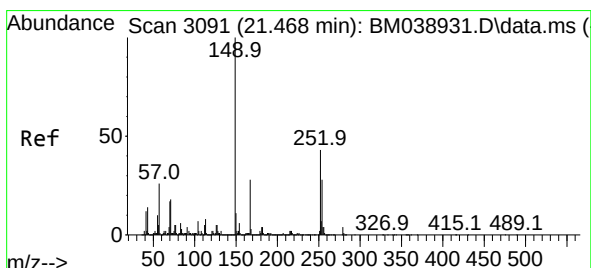
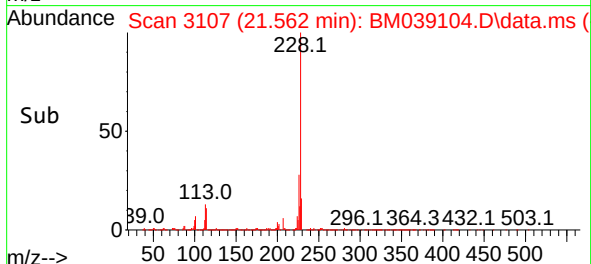
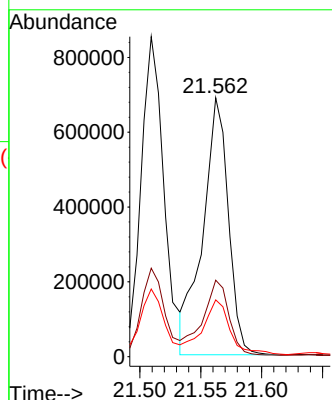
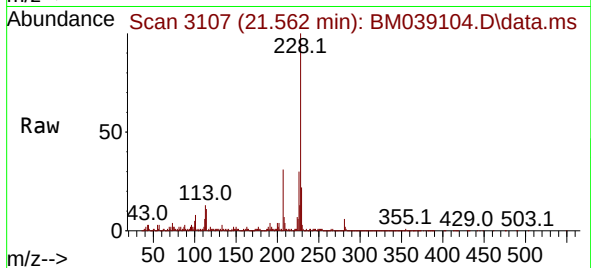
Tgt Ion:228 Resp: 1006215

Ion Ratio Lower Upper

228 100

226 29.5 24.0 36.0

229 21.9 16.0 24.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.830 ng

RT: 21.433 min Scan# 3085

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

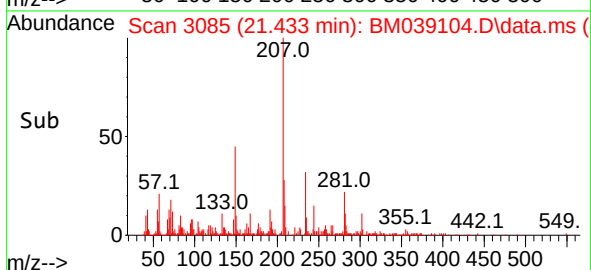
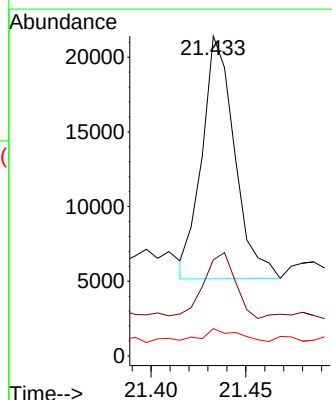
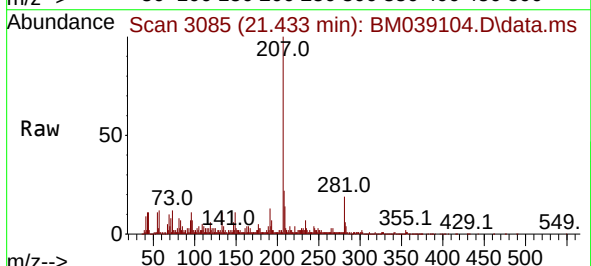
Tgt Ion:149 Resp: 19458

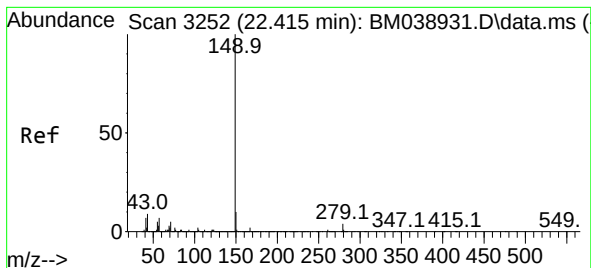
Ion Ratio Lower Upper

149 100

167 30.0 22.3 33.5

279 8.5 3.2 4.8#





#85

Di-n-octyl phthalate

Concen: 3.813 ng

RT: 22.374 min Scan# 31

Delta R.T. 0.000 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

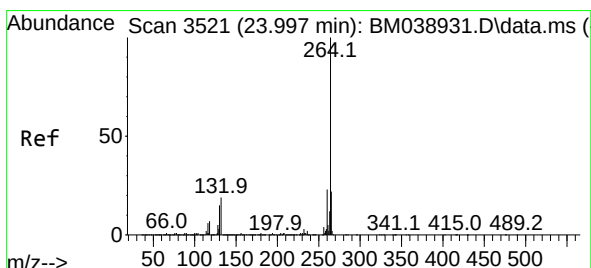
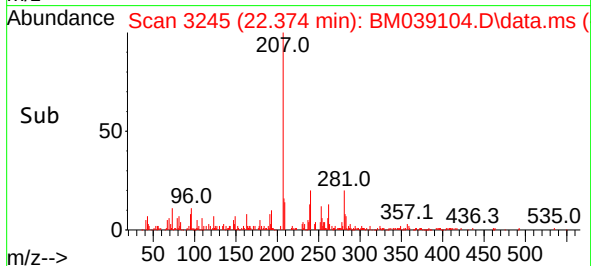
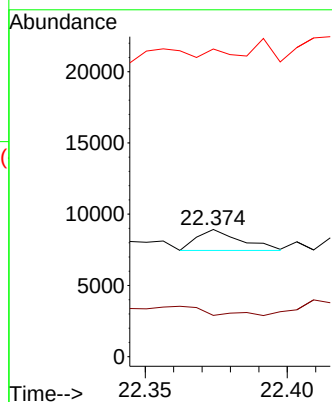
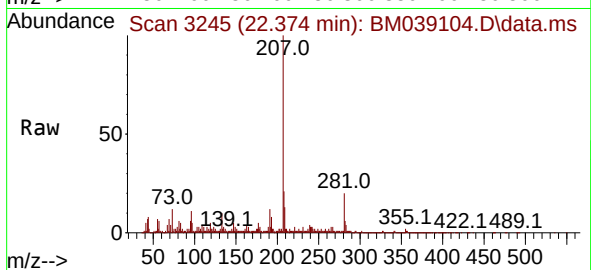
Tgt Ion:149 Resp: 1581

Ion Ratio Lower Upper

149 100

167 0.0 1.2 1.8#

43 0.0 7.4 11.2#



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.956 min Scan# 3514

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

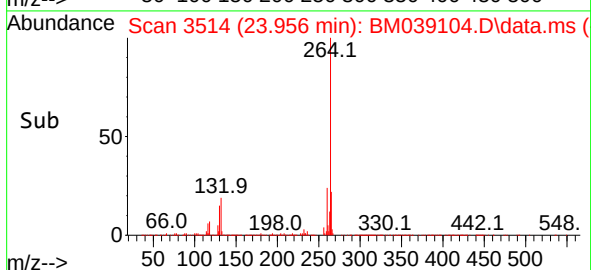
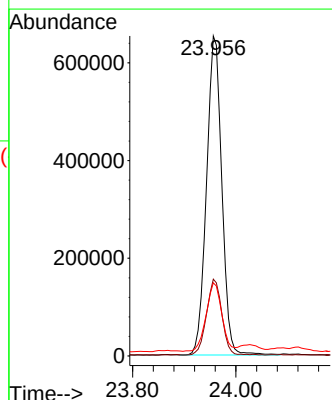
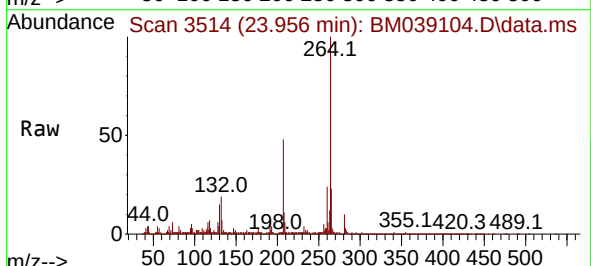
Tgt Ion:264 Resp: 1342652

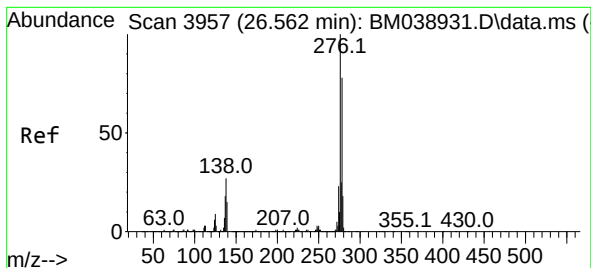
Ion Ratio Lower Upper

264 100

260 24.0 18.7 28.1

265 22.9 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.249 ng

RT: 26.480 min Scan# 3943

Delta R.T. -0.018 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

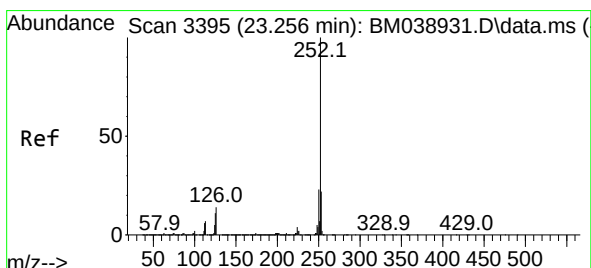
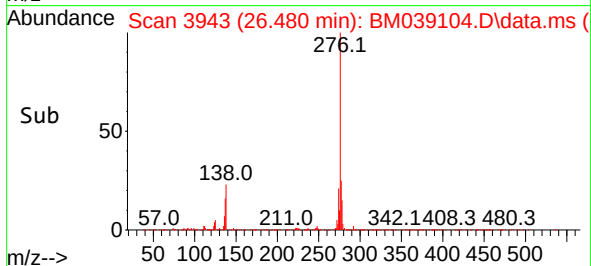
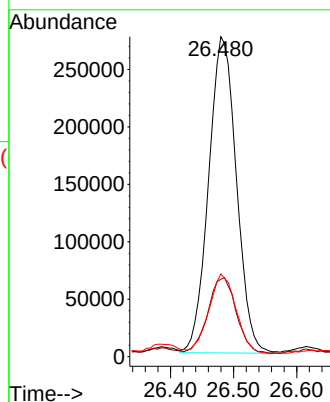
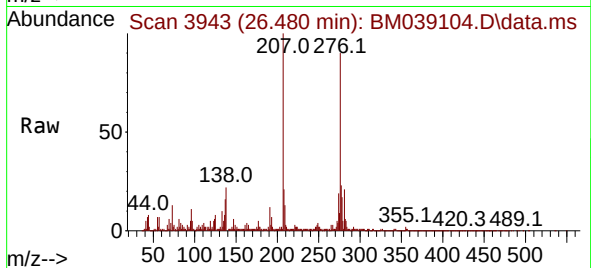
Tgt Ion:276 Resp: 842781

Ion Ratio Lower Upper

276 100

138 24.6 22.1 33.1

277 24.8 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 18.609 ng

RT: 23.215 min Scan# 3388

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

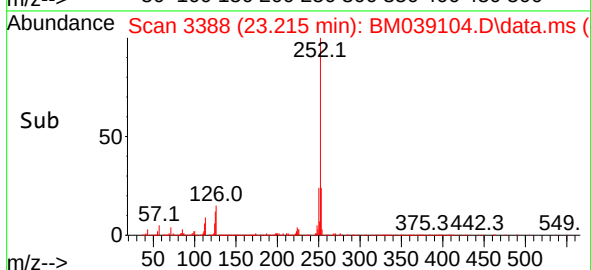
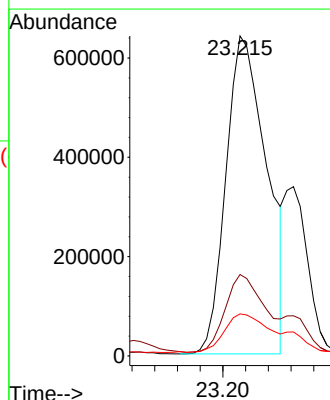
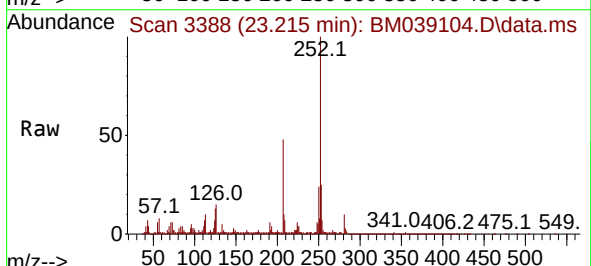
Tgt Ion:252 Resp: 1596231

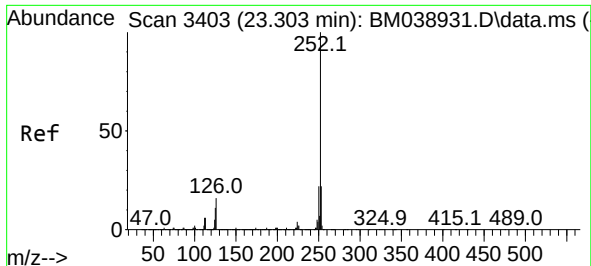
Ion Ratio Lower Upper

252 100

253 25.4 17.6 26.4

125 13.2 8.8 13.2

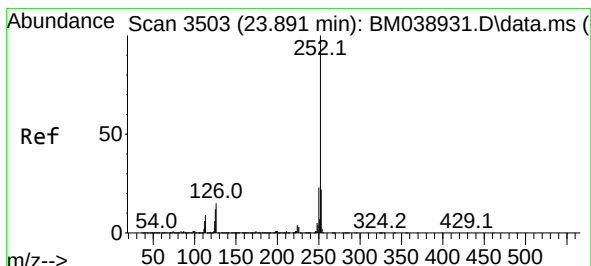
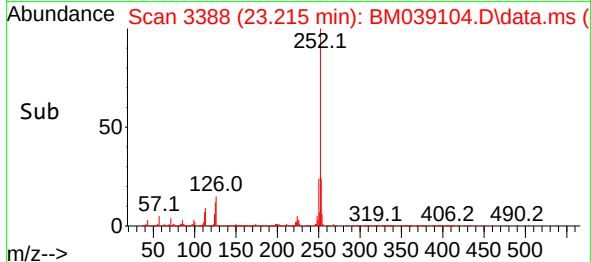
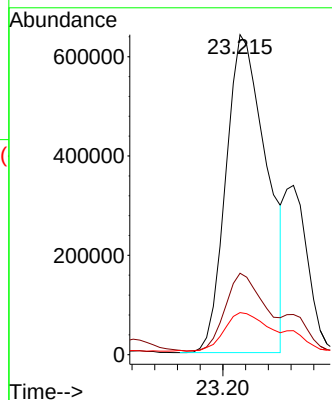
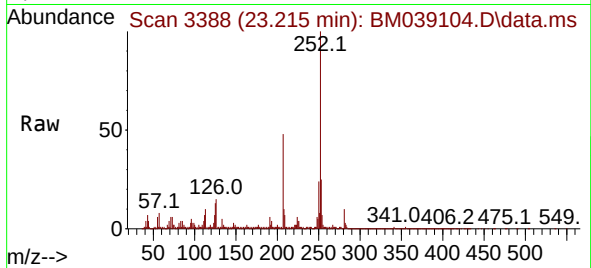




#89
Benzo(k)fluoranthene
Concen: 17.881 ng
RT: 23.215 min Scan# 31
Delta R.T. -0.053 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

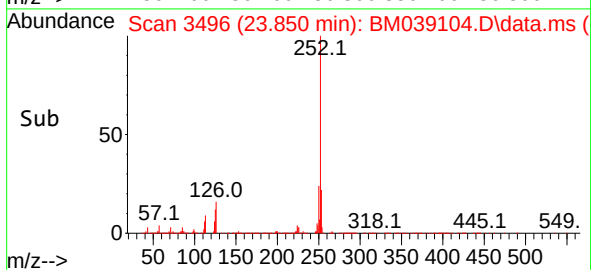
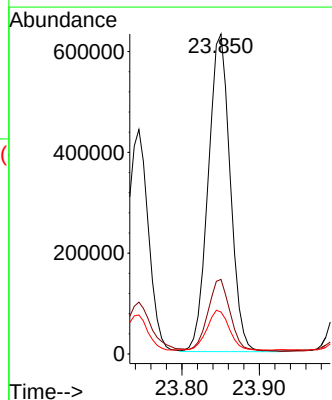
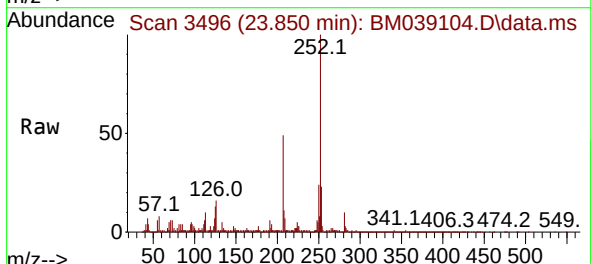
Instrument :
BNA_M
ClientSampleId :
CE-43-031423

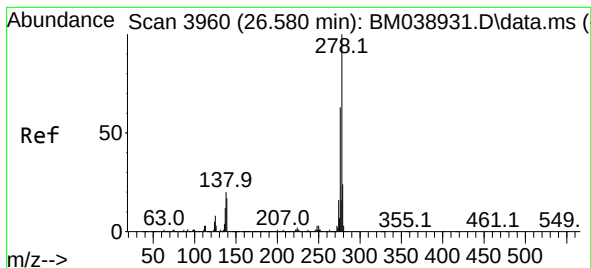
Tgt Ion:252 Resp: 1596231
Ion Ratio Lower Upper
252 100
253 25.4 17.5 26.3
125 13.2 8.9 13.3



#90
Benzo(a)pyrene
Concen: 15.064 ng
RT: 23.850 min Scan# 3496
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Tgt Ion:252 Resp: 1243615
Ion Ratio Lower Upper
252 100
253 23.3 17.6 26.4
125 13.1 9.8 14.8





#91

Dibenzo(a,h)anthracene

Concen: 2.407 ng

RT: 26.497 min Scan# 3960

Delta R.T. -0.012 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

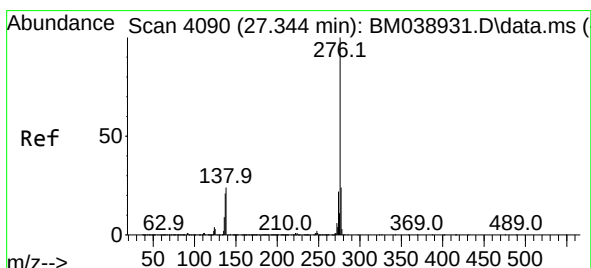
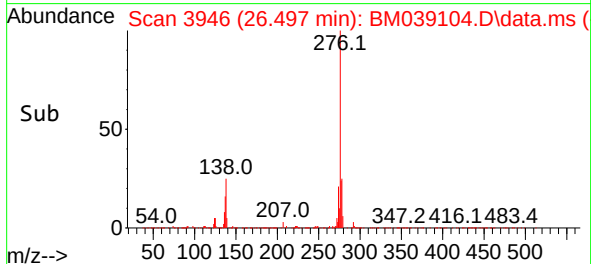
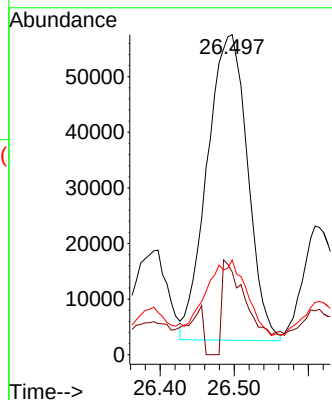
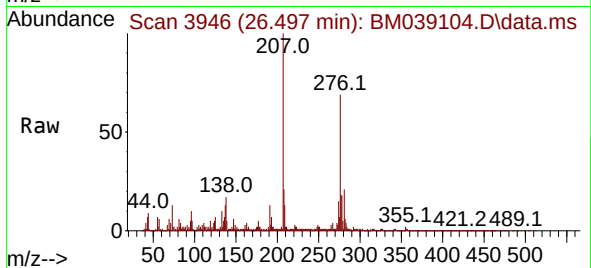
Tgt Ion:278 Resp: 208285

Ion Ratio Lower Upper

278 100

139 25.9 13.7 20.5#

279 29.6 18.9 28.3#



#92

Benzo(g,h,i)perylene

Concen: 10.535 ng

RT: 27.268 min Scan# 4077

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Tgt Ion:276 Resp: 891824

Ion Ratio Lower Upper

276 100

277 24.4 19.3 28.9

138 25.0 19.0 28.6

