

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032823\
 Data File : BM039194.D
 Acq On : 29 Mar 2023 00:03
 Operator : CG/JU
 Sample : 01998-03DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BROAD-CHANNEL-SUBSTATION-TP2DL

Quant Time: Mar 29 01:34:13 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 29 01:28:31 2023
 Response via : Initial Calibration

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

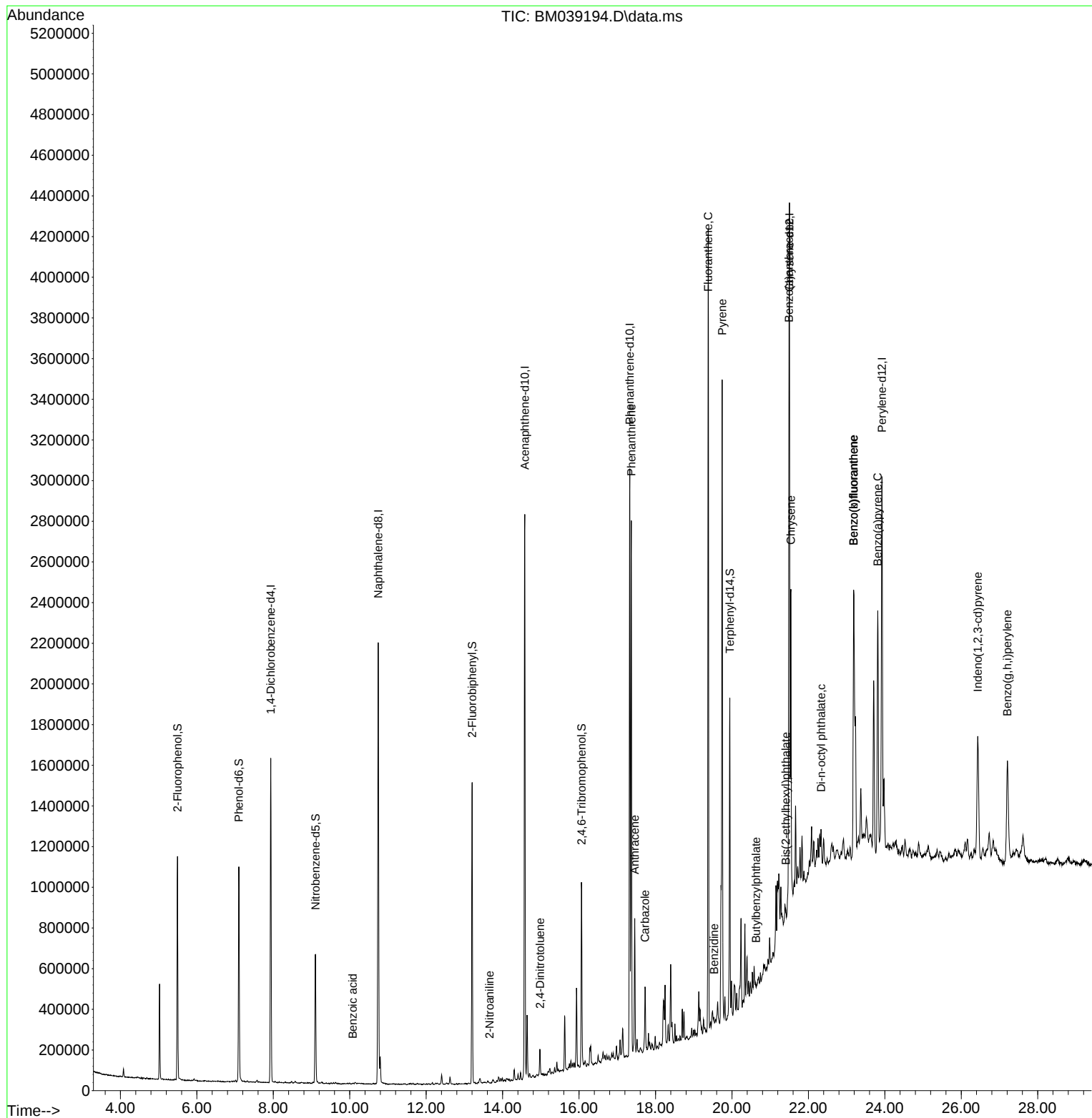
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.934	152	423176	20.000	ng	0.00
21) Naphthalene-d8	10.745	136	1748955	20.000	ng	0.00
39) Acenaphthene-d10	14.580	164	957640	20.000	ng	0.00
64) Phenanthrene-d10	17.327	188	1698203	20.000	ng	0.00
76) Chrysene-d12	21.503	240	1231400	20.000	ng	0.00
86) Perylene-d12	23.927	264	1338898	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	474136	17.022	ng	0.00
7) Phenol-d6	7.098	99	613156	16.948	ng	-0.01
23) Nitrobenzene-d5	9.104	82	379524	10.659	ng	0.00
42) 2,4,6-Tribromophenol	16.068	330	154598	13.955	ng	0.00
45) 2-Fluorobiphenyl	13.204	172	763982	10.385	ng	0.00
79) Terphenyl-d14	19.945	244	725957	10.779	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	10.081	122	248	5.743	ng	# 1
48) 2-Nitroaniline	13.657	65	41	2.217	ng	# 29
57) 2,4-Dinitrotoluene	14.980	165	288	2.084	ng	# 1
71) Phenanthrene	17.368	178	1543280	15.484	ng	99
72) Anthracene	17.457	178	390277	3.927	ng	99
73) Carbazole	17.727	167	199158	2.195	ng	99
75) Fluoranthene	19.380	202	2205753	20.960	ng	99
77) Benzidine	19.533	184	193	4.883	ng	# 1
78) Pyrene	19.745	202	1896608	20.506	ng	99
80) Butylbenzylphthalate	20.633	149	1259	3.346	ng	# 70
81) Benzo(a)anthracene	21.492	228	982025	11.074	ng	98
83) Chrysene	21.544	228	859781	9.969	ng	98
84) Bis(2-ethylhexyl)phtha...	21.409	149	14370	2.725	ng	# 99
85) Di-n-octyl phthalate	22.339	149	403	3.800	ng	# 1
87) Indeno(1,2,3-cd)pyrene	26.432	276	618572	6.072	ng	96
88) Benzo(b)fluoranthene	23.186	252	1260633	14.738	ng	98
89) Benzo(k)fluoranthene	23.186	252	1260633	14.161	ng	98
90) Benzo(a)pyrene	23.815	252	877303	10.657	ng	99
92) Benzo(g,h,i)perylene	27.209	276	631018	7.475	ng	99

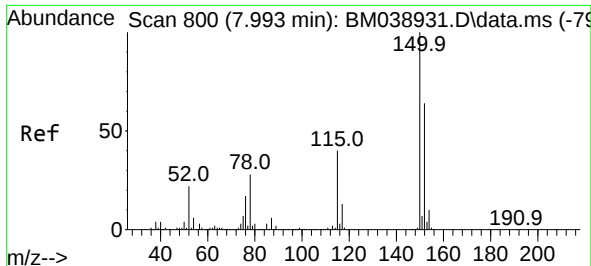
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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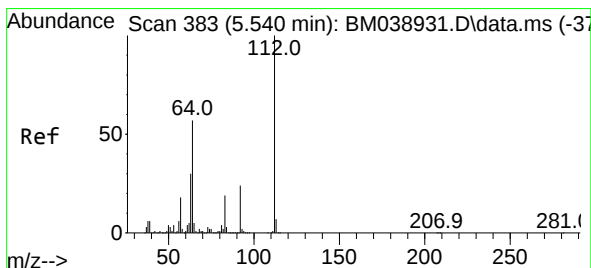
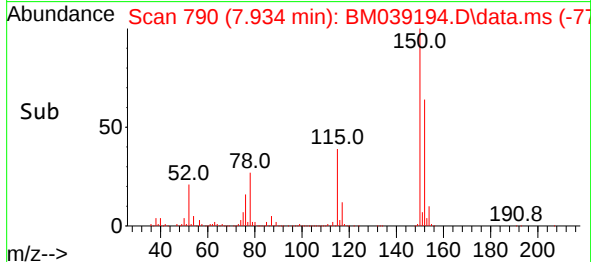
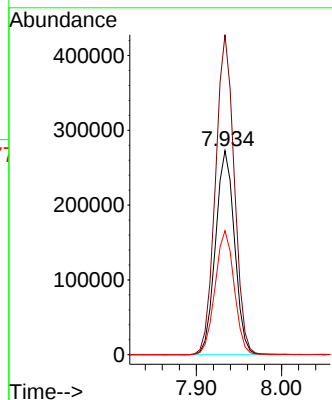
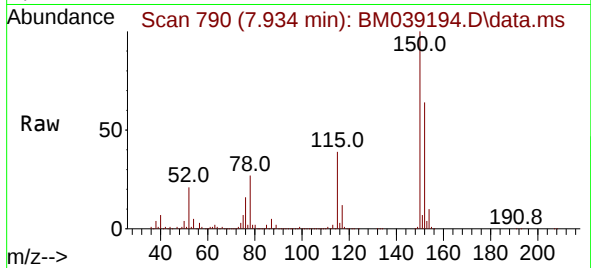




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.934 min Scan# 71
Delta R.T. -0.005 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

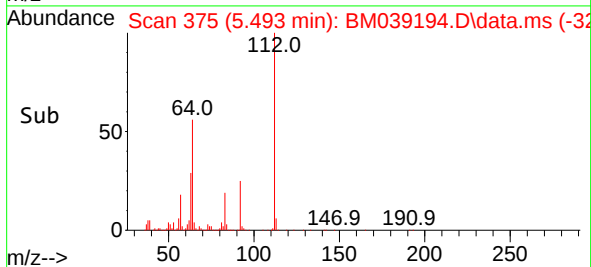
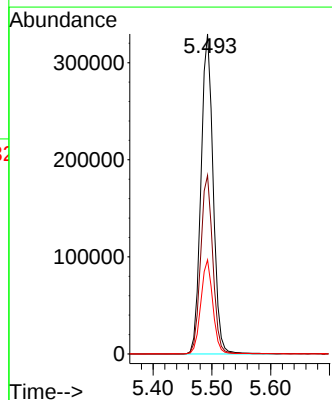
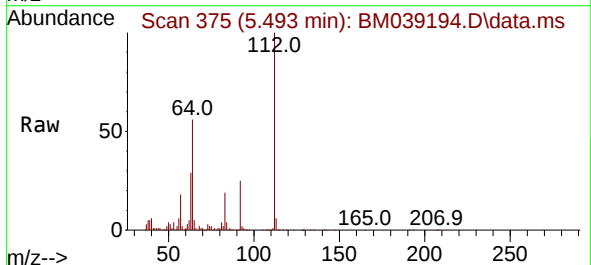
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL

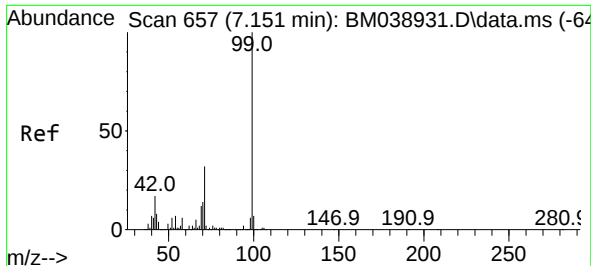
Tgt Ion:152 Resp: 423176
Ion Ratio Lower Upper
152 100
150 156.9 125.1 187.7
115 60.8 49.6 74.4



#5
2-Fluorophenol
Concen: 17.022 ng
RT: 5.493 min Scan# 375
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:112 Resp: 474136
Ion Ratio Lower Upper
112 100
64 55.8 45.9 68.9
63 29.4 23.8 35.8

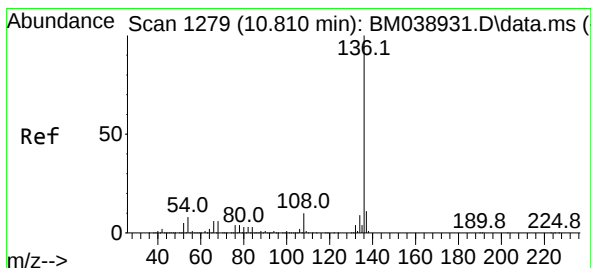
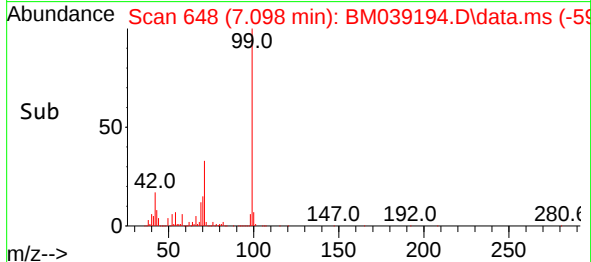
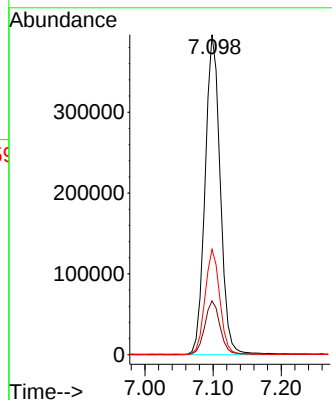
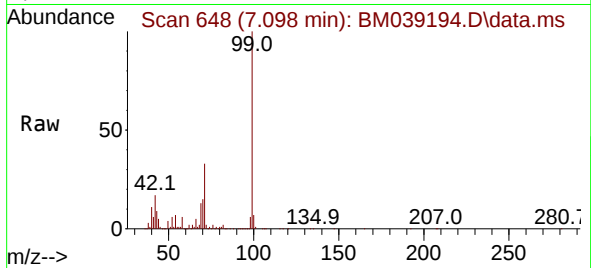




#7
Phenol-d6
Concen: 16.948 ng
RT: 7.098 min Scan# 64
Delta R.T. -0.012 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

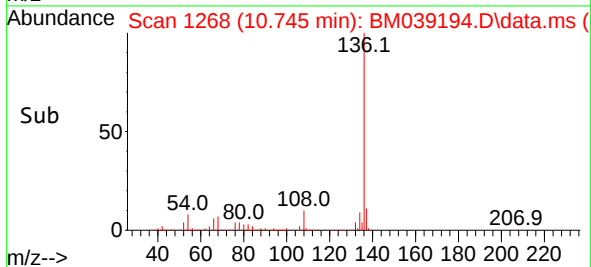
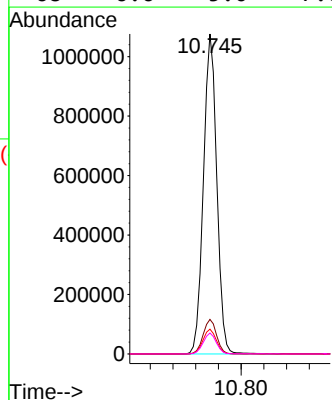
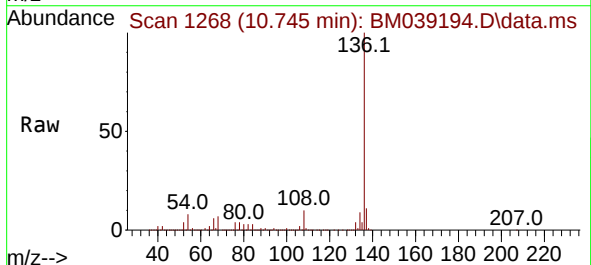
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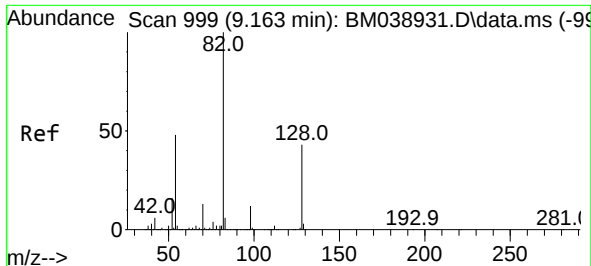
Tgt Ion: 99 Resp: 613156
Ion Ratio Lower Upper
99 100
42 16.8 13.5 20.3
71 32.9 25.6 38.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.745 min Scan# 1268
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion: 136 Resp: 1748955
Ion Ratio Lower Upper
136 100
137 10.8 8.7 13.1
54 7.7 6.3 9.5
68 6.6 5.0 7.6

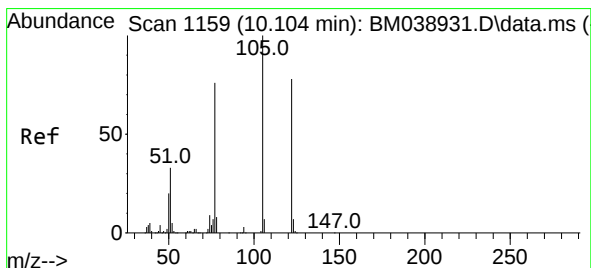
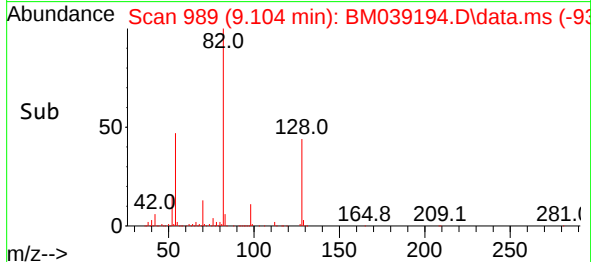
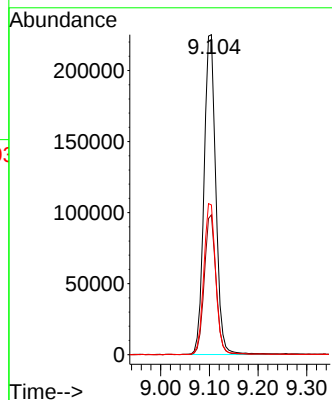
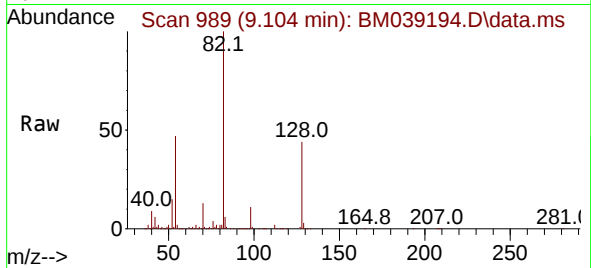




#23
Nitrobenzene-d5
Concen: 10.659 ng
RT: 9.104 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

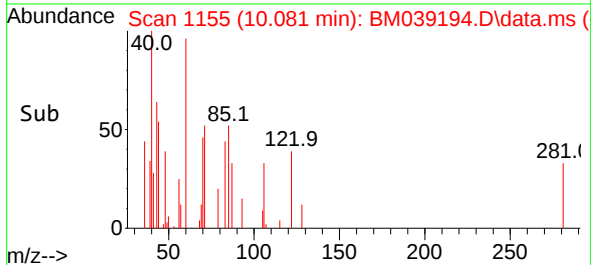
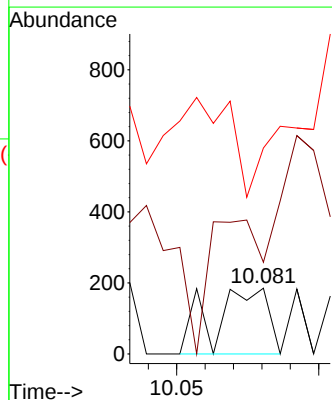
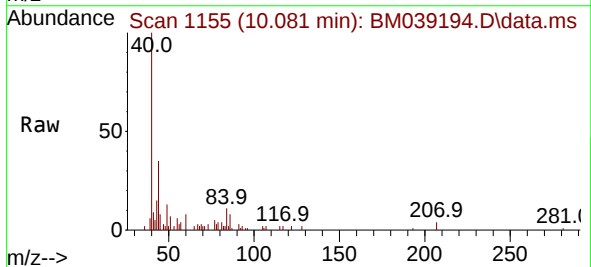
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL

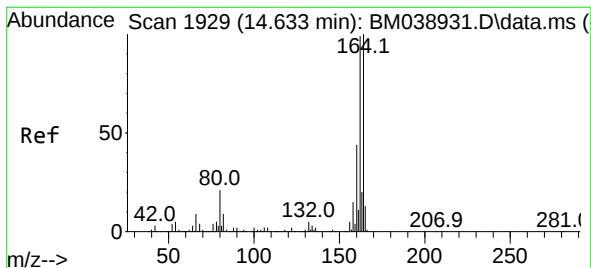
Tgt Ion: 82 Resp: 379524
Ion Ratio Lower Upper
82 100
128 43.7 34.4 51.6
54 46.8 38.8 58.2



#32
Benzoic acid
Concen: 5.743 ng
RT: 10.081 min Scan# 1155
Delta R.T. -0.018 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion: 122 Resp: 248
Ion Ratio Lower Upper
122 100
105 139.5 104.2 144.2
77 313.5 75.1 115.1#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.580 min Scan# 1929

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP2DL

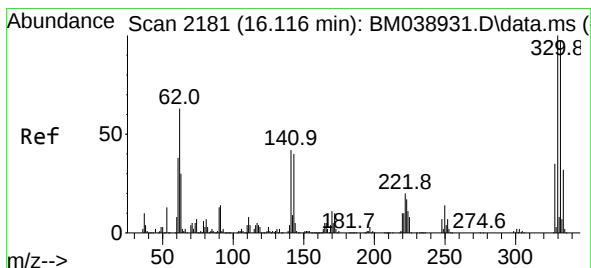
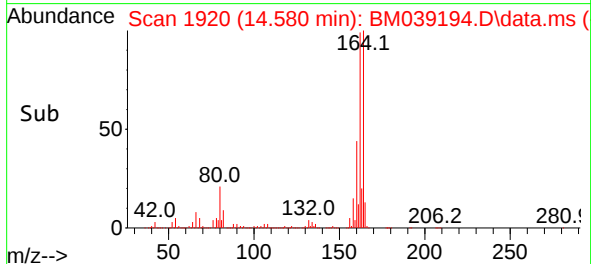
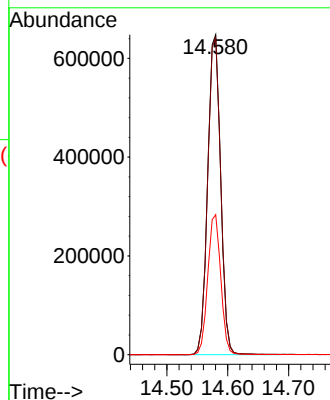
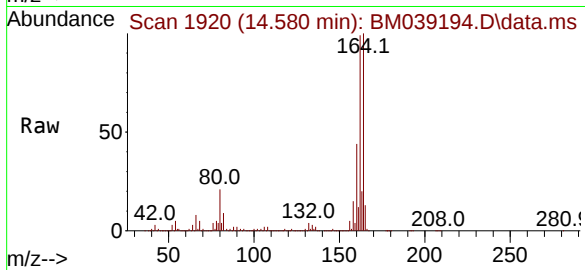
Tgt Ion:164 Resp: 957640

Ion Ratio Lower Upper

164 100

162 99.1 79.2 118.8

160 43.8 35.5 53.3



#42

2,4,6-Tribromophenol

Concen: 13.955 ng

RT: 16.068 min Scan# 2173

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

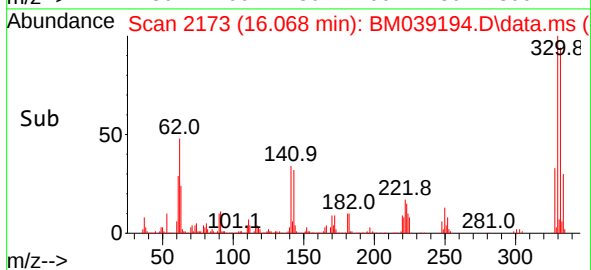
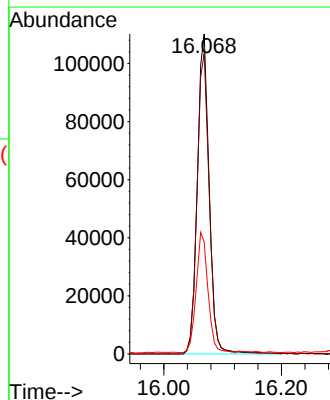
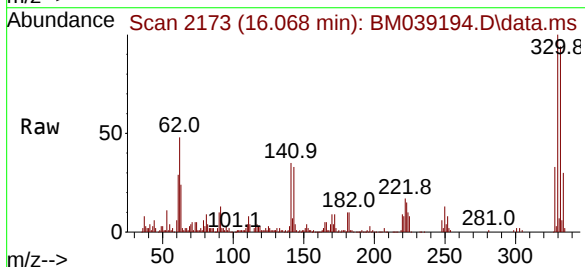
Tgt Ion:330 Resp: 154598

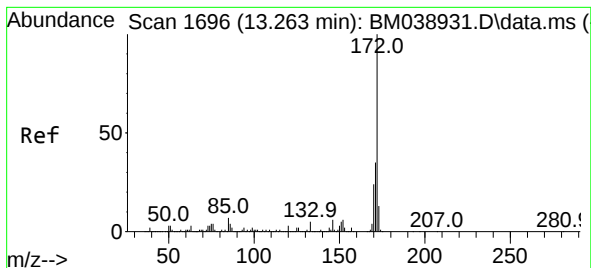
Ion Ratio Lower Upper

330 100

332 96.6 77.4 116.0

141 37.1 32.2 48.4

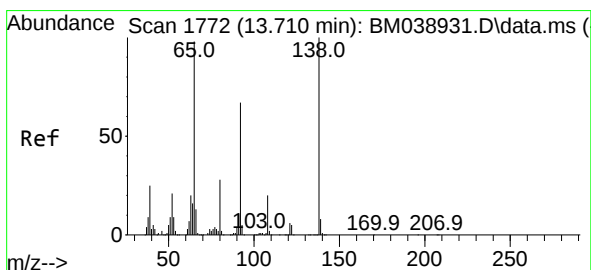
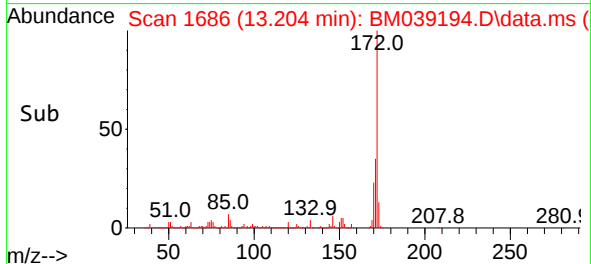
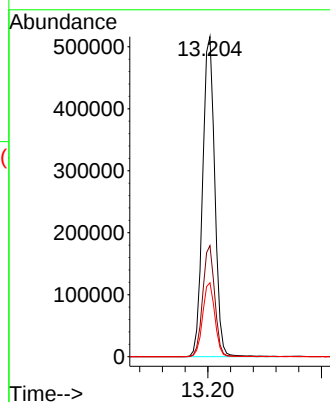
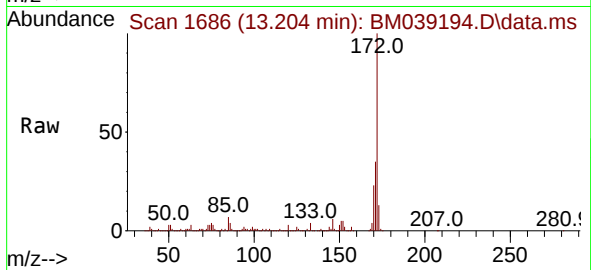




#45
2-Fluorobiphenyl
Concen: 10.385 ng
RT: 13.204 min Scan# 1763
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

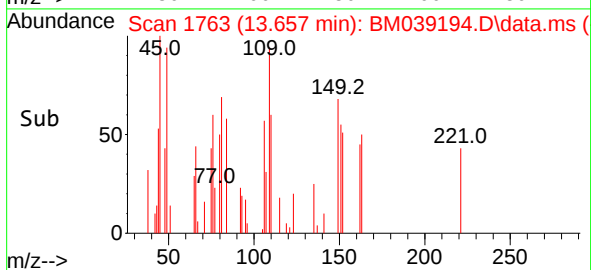
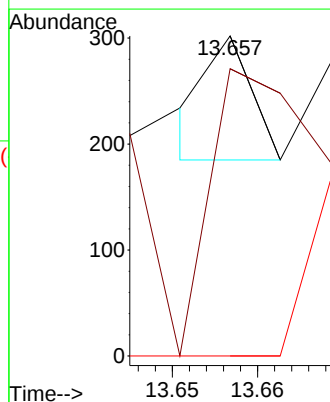
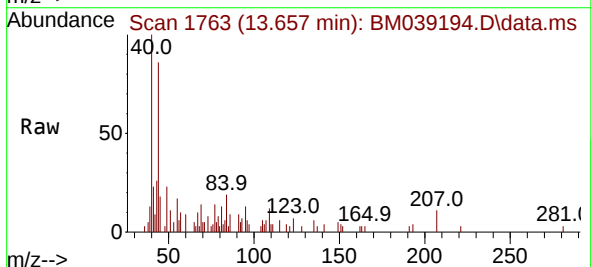
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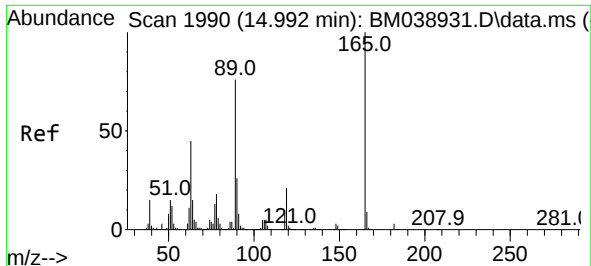
Tgt Ion:172 Resp: 763982
Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.2
170 23.1 19.1 28.7



#48
2-Nitroaniline
Concen: 2.217 ng
RT: 13.657 min Scan# 1763
Delta R.T. -0.012 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion: 65 Resp: 41
Ion Ratio Lower Upper
65 100
92 89.7 54.9 82.3#
138 0.0 81.6 122.4#

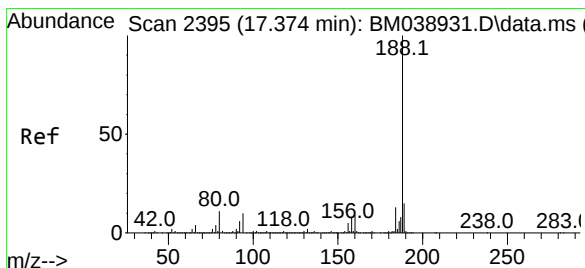
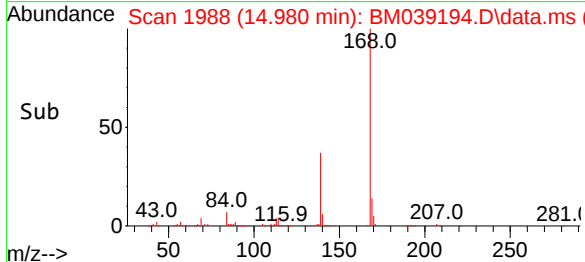
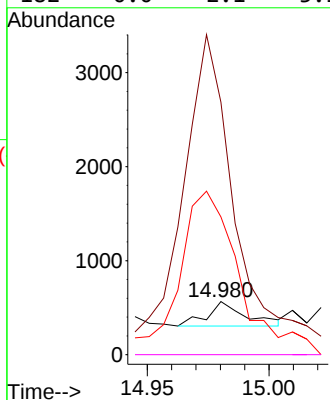
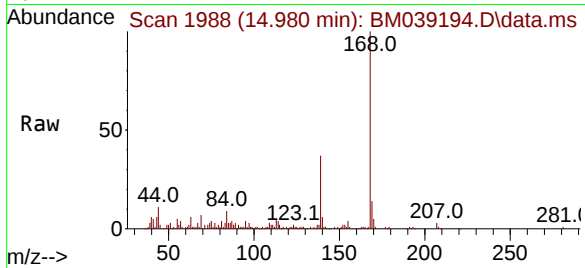




#57
2,4-Dinitrotoluene
Concen: 2.084 ng
RT: 14.980 min Scan# 1990
Delta R.T. 0.029 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

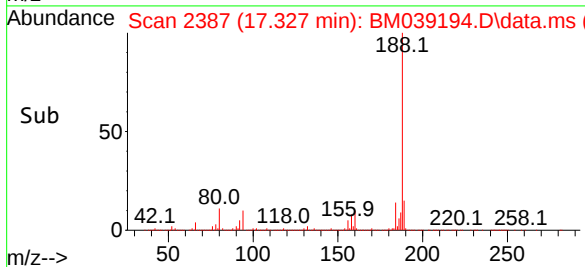
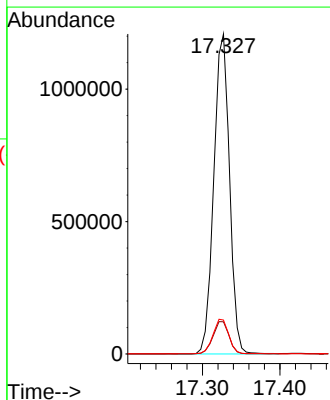
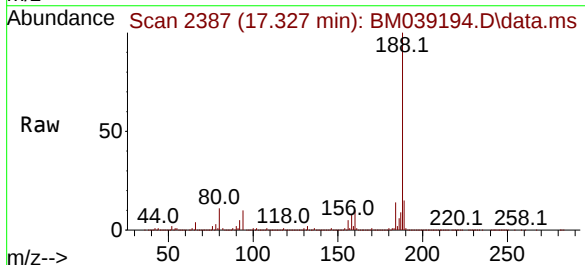
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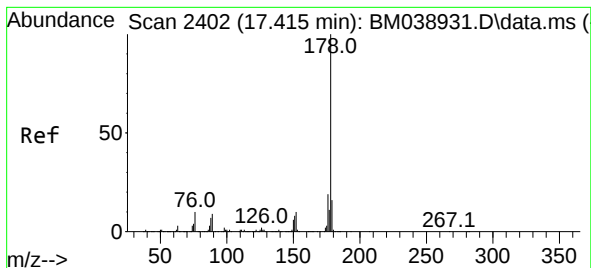
Tgt Ion:165 Resp: 288
Ion Ratio Lower Upper
165 100
63 475.4 35.9 53.9#
89 259.5 61.0 91.6#
182 0.0 2.1 3.1#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.327 min Scan# 2387
Delta R.T. 0.000 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:188 Resp: 1698203
Ion Ratio Lower Upper
188 100
94 10.0 7.9 11.9
80 10.6 8.5 12.7





#71

Phenanthrene

Concen: 15.484 ng

RT: 17.368 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP2DL

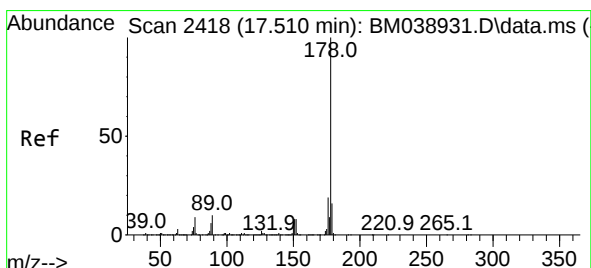
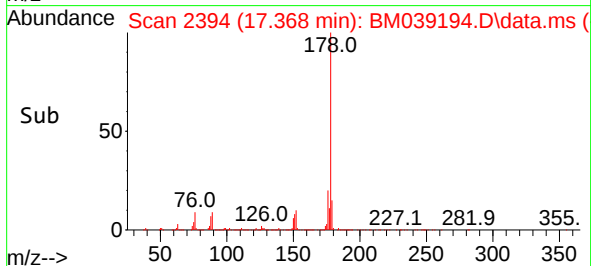
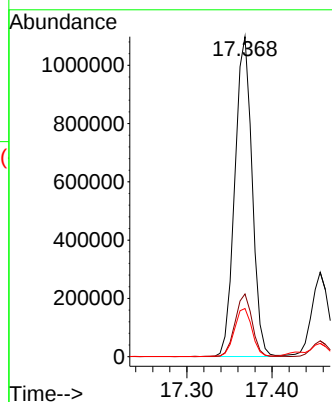
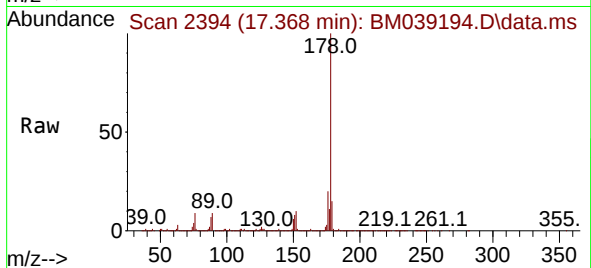
Tgt Ion:178 Resp: 1543280

Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

179 15.1 12.5 18.7



#72

Anthracene

Concen: 3.927 ng

RT: 17.457 min Scan# 2409

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

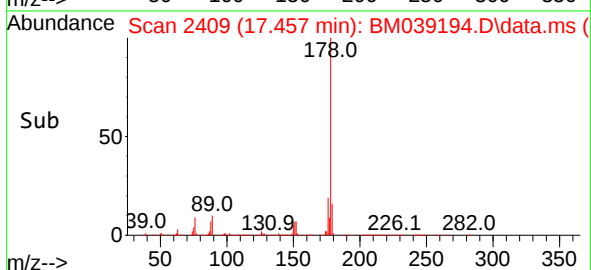
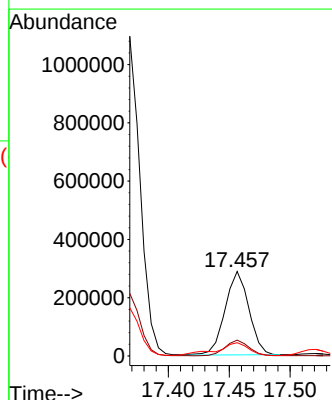
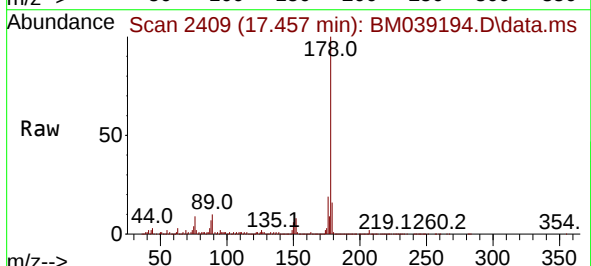
Tgt Ion:178 Resp: 390277

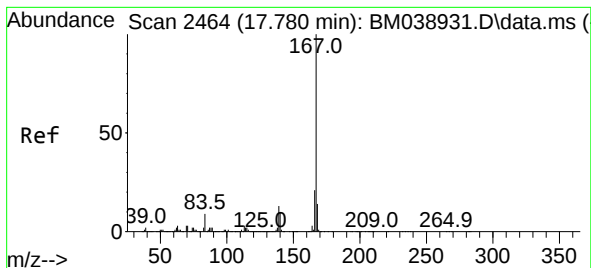
Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

179 15.8 12.5 18.7





#73

Carbazole

Concen: 2.195 ng

RT: 17.727 min Scan# 24

Delta R.T. -0.012 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP2DL

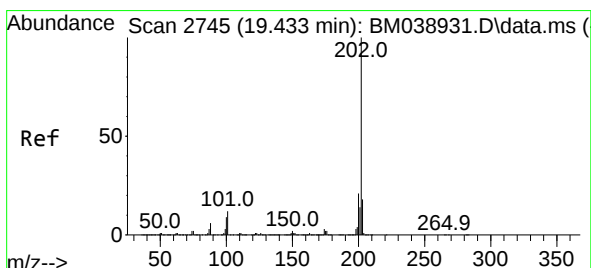
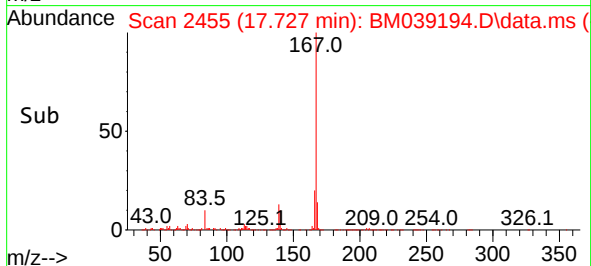
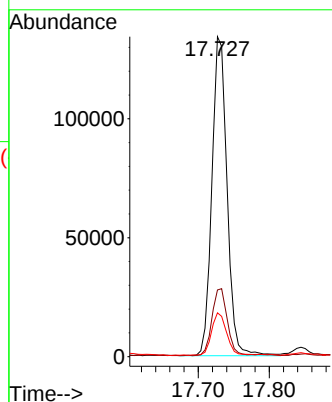
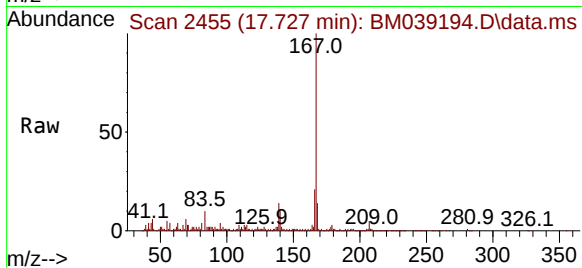
Tgt Ion:167 Resp: 199158

Ion Ratio Lower Upper

167 100

166 20.8 17.0 25.4

139 13.7 10.3 15.5



#75

Fluoranthene

Concen: 20.960 ng

RT: 19.380 min Scan# 2736

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

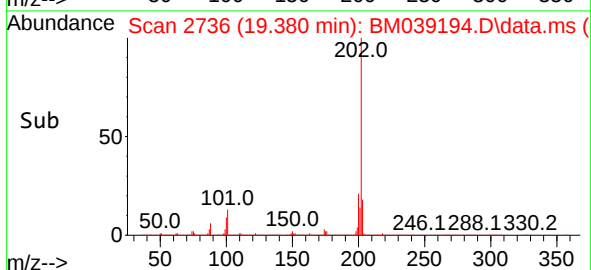
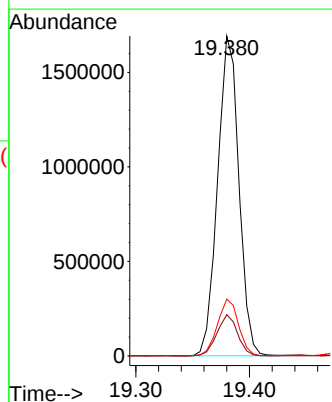
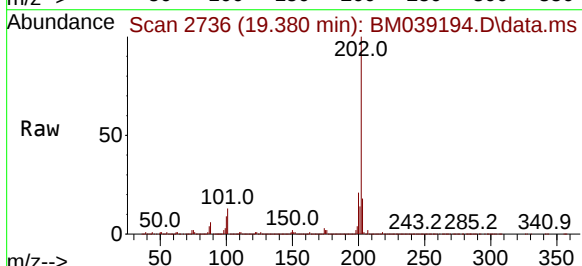
Tgt Ion:202 Resp: 2205753

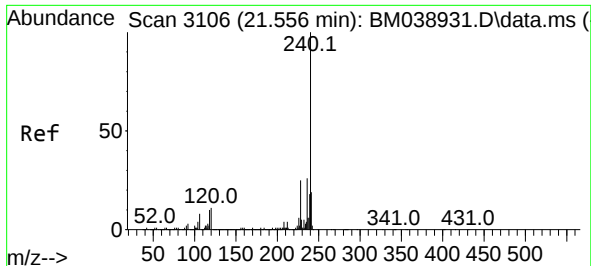
Ion Ratio Lower Upper

202 100

101 12.9 0.0 31.7

203 17.8 0.0 37.6

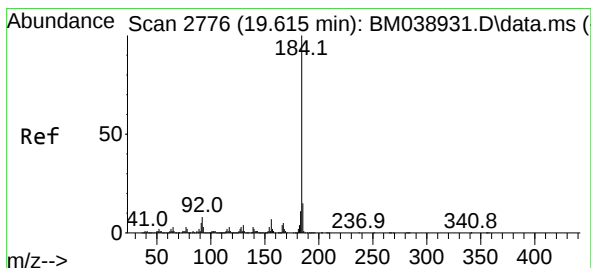
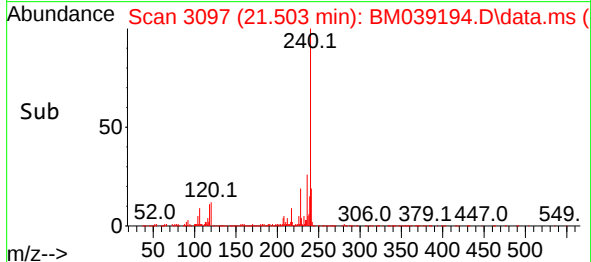
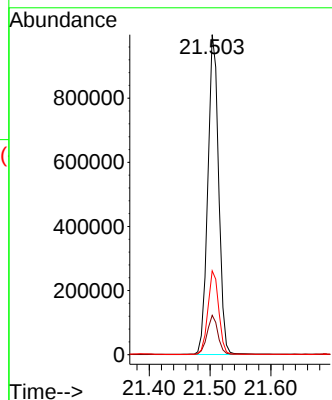
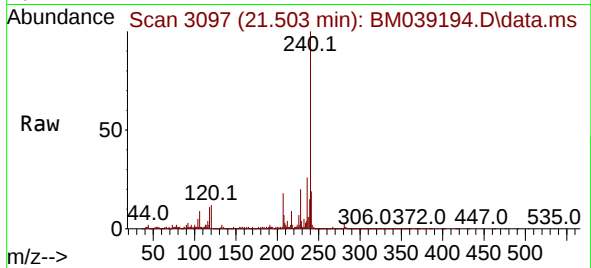




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.503 min Scan# 30
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

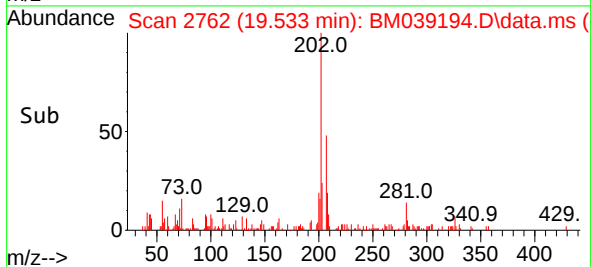
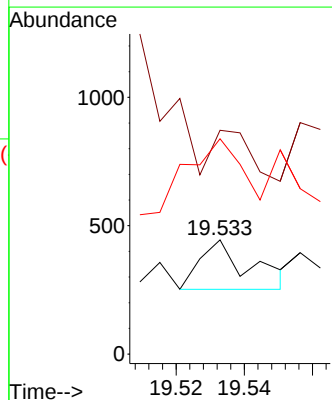
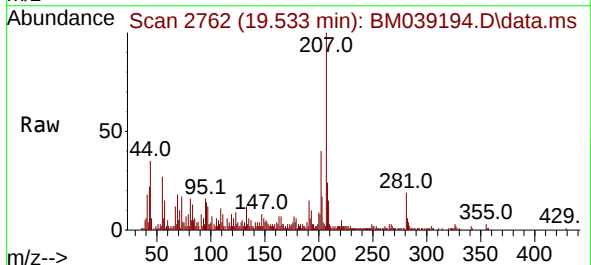
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL

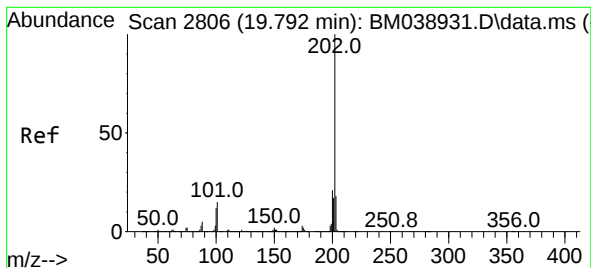
Tgt Ion:240 Resp: 1231400
Ion Ratio Lower Upper
240 100
120 12.3 9.2 13.8
236 26.2 20.8 31.2



#77
Benzidine
Concen: 4.883 ng
RT: 19.533 min Scan# 2762
Delta R.T. -0.041 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:184 Resp: 193
Ion Ratio Lower Upper
184 100
185 196.0 12.2 18.4#
183 188.5 8.8 13.2#





#78

Pyrene

Concen: 20.506 ng

RT: 19.745 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP2DL

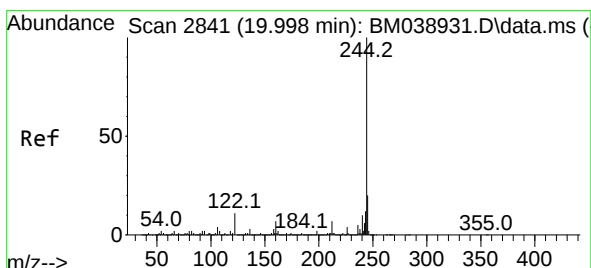
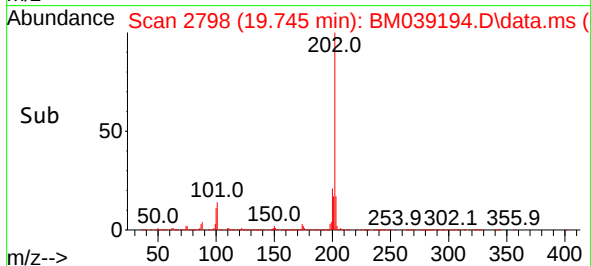
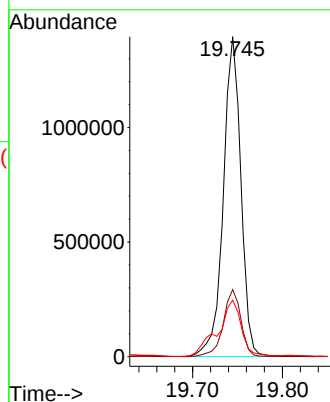
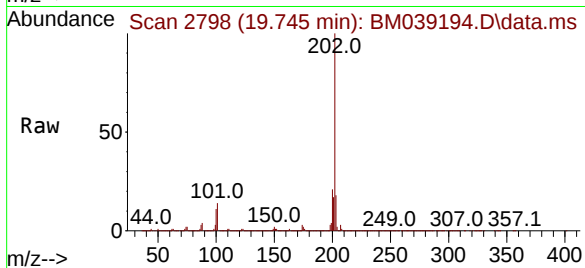
Tgt Ion:202 Resp: 1896608

Ion Ratio Lower Upper

202 100

200 21.0 17.1 25.7

203 17.7 14.1 21.1



#79

Terphenyl-d14

Concen: 10.779 ng

RT: 19.945 min Scan# 2832

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

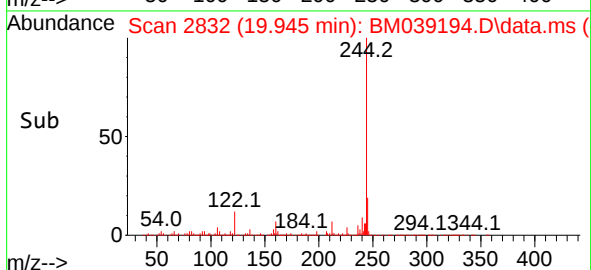
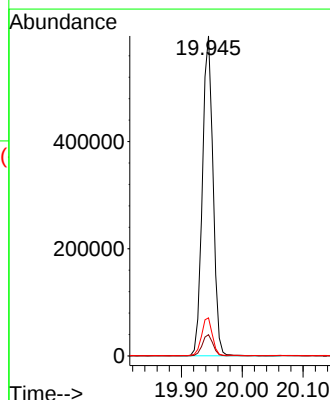
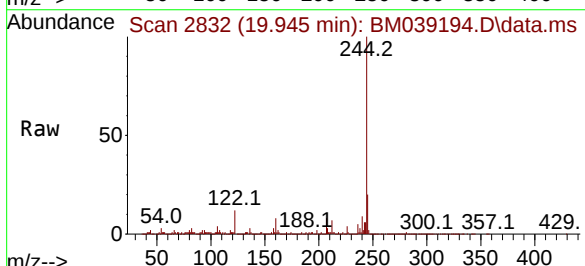
Tgt Ion:244 Resp: 725957

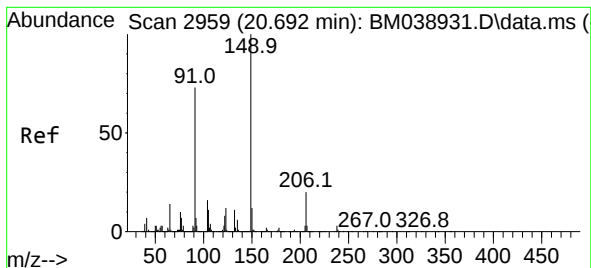
Ion Ratio Lower Upper

244 100

212 6.7 5.5 8.3

122 11.9 9.0 13.4





#80

Butylbenzylphthalate

Concen: 3.346 ng

RT: 20.633 min Scan# 2959

Delta R.T. -0.012 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP2DL

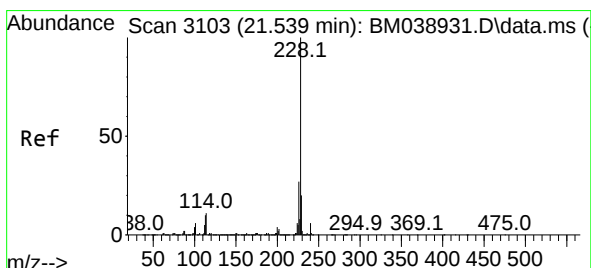
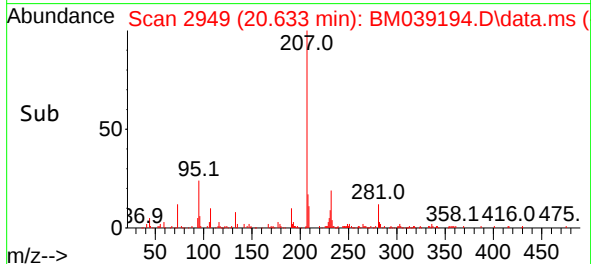
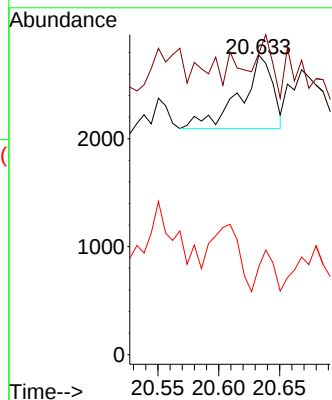
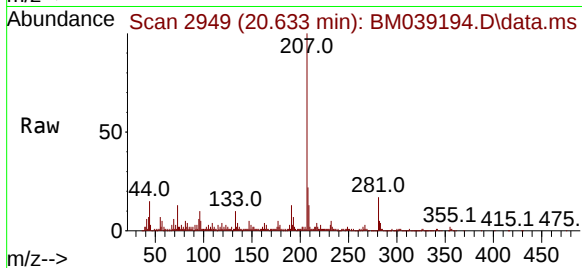
Tgt Ion:149 Resp: 1259

Ion Ratio Lower Upper

149 100

91 100.5 58.4 87.6#

206 29.3 16.1 24.1#



#81

Benzo(a)anthracene

Concen: 11.074 ng

RT: 21.492 min Scan# 3095

Delta R.T. 0.000 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

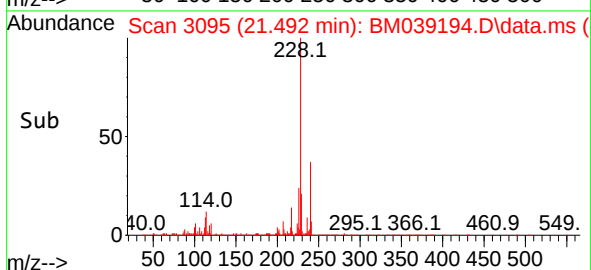
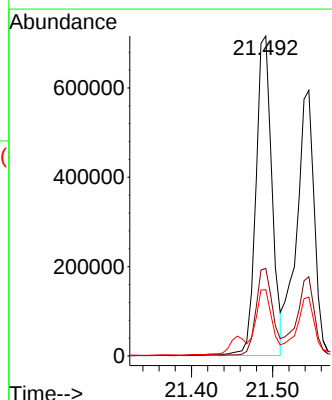
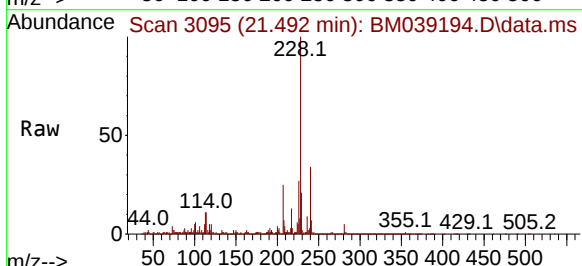
Tgt Ion:228 Resp: 982025

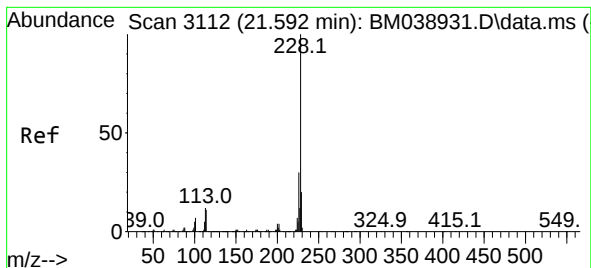
Ion Ratio Lower Upper

228 100

226 27.4 21.4 32.2

229 20.7 15.7 23.5





#83

Chrysene

Concen: 9.969 ng

RT: 21.544 min Scan# 3112

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP2DL

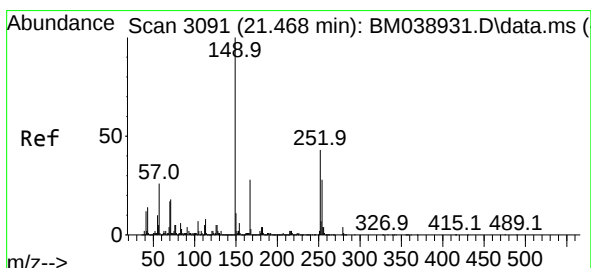
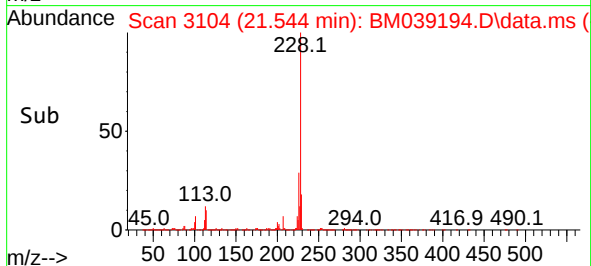
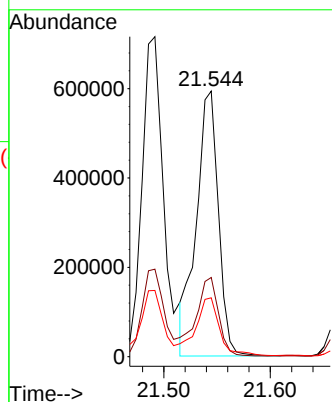
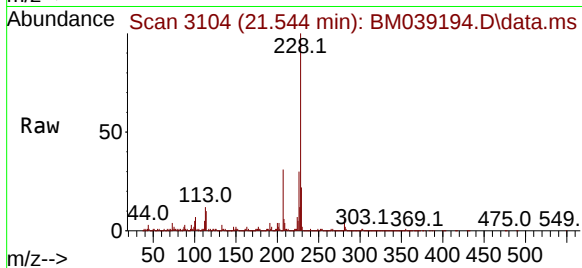
Tgt Ion:228 Resp: 859781

Ion Ratio Lower Upper

228 100

226 29.8 24.0 36.0

229 22.2 16.0 24.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.725 ng

RT: 21.409 min Scan# 3081

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

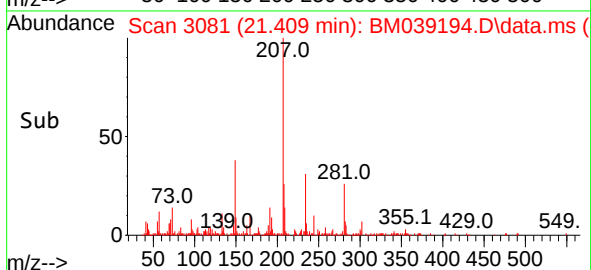
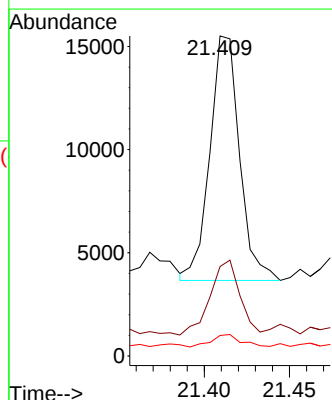
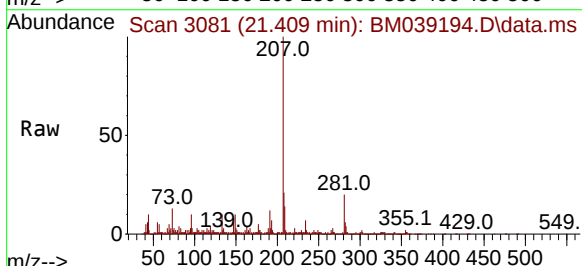
Tgt Ion:149 Resp: 14370

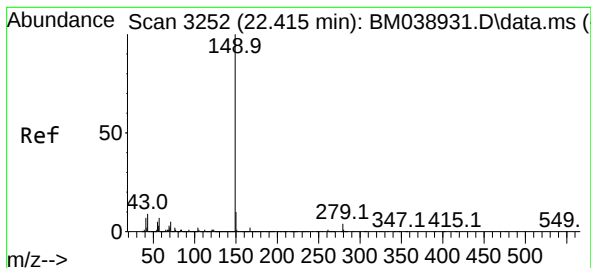
Ion Ratio Lower Upper

149 100

167 27.9 22.3 33.5

279 6.4 3.2 4.8#





#85

Di-n-octyl phthalate

Concen: 3.800 ng

RT: 22.339 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM039194.D

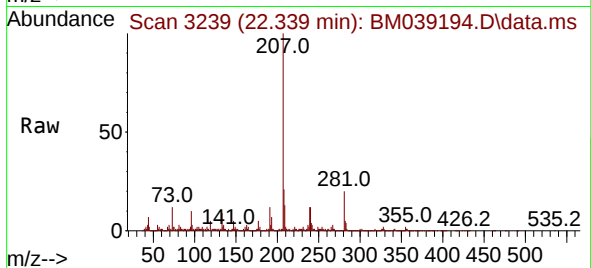
Acq: 29 Mar 2023 00:03

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP2DL



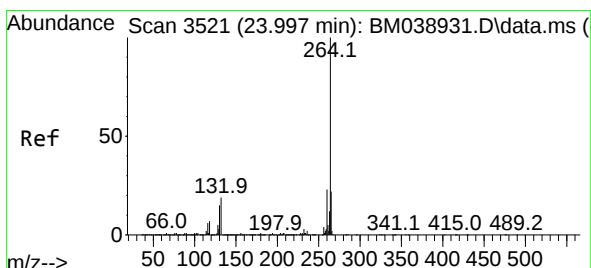
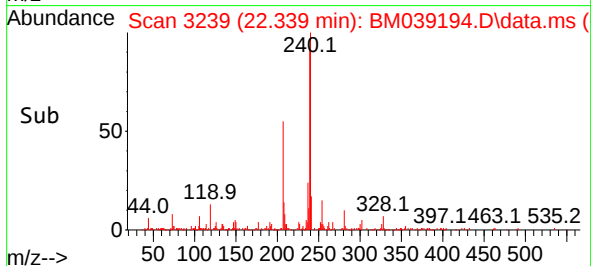
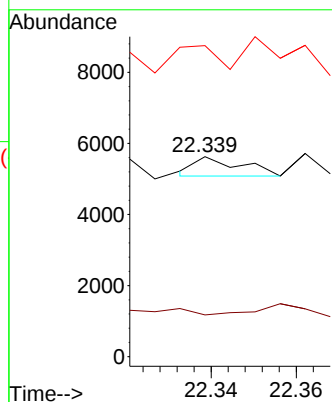
Tgt Ion:149 Resp: 403

Ion Ratio Lower Upper

149 100

167 65.3 1.2 1.8#

43 139.7 7.4 11.2#



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3509

Delta R.T. 0.000 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

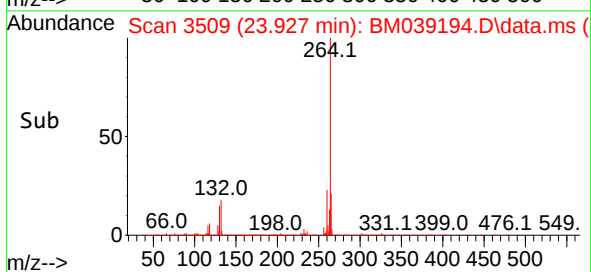
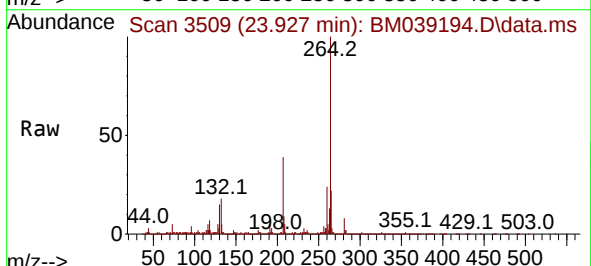
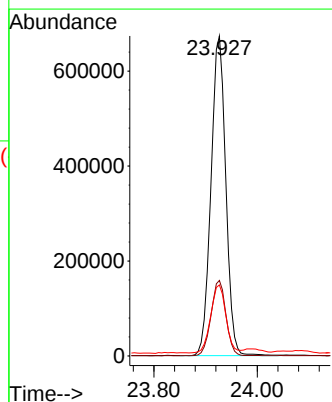
Tgt Ion:264 Resp: 1338898

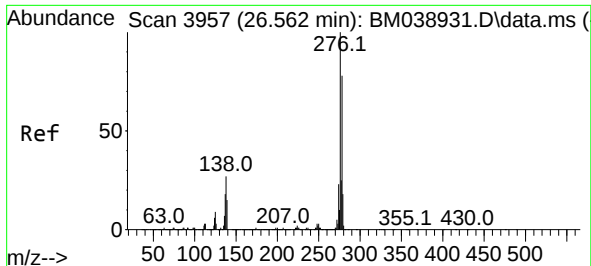
Ion Ratio Lower Upper

264 100

260 23.6 18.7 28.1

265 22.2 17.9 26.9

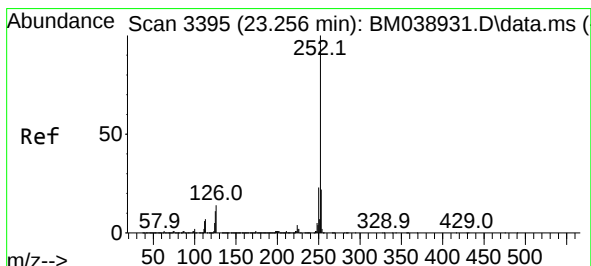
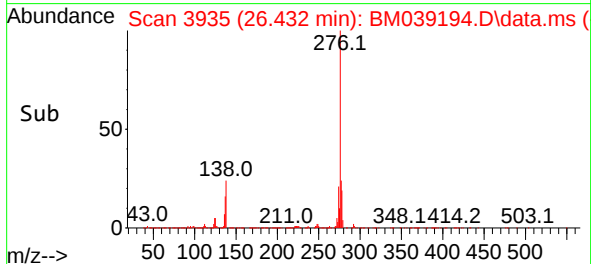
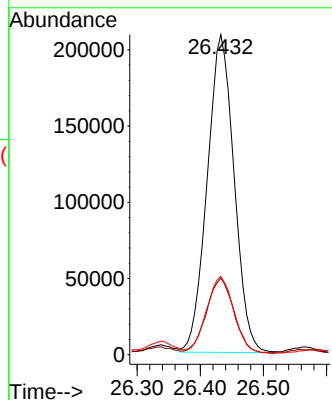
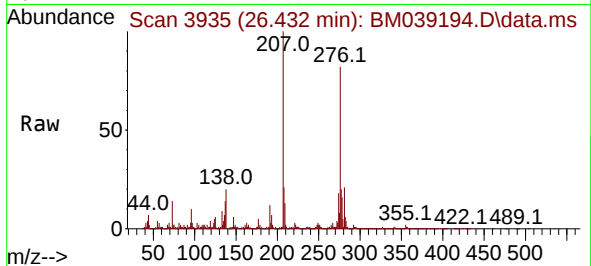




#87
Indeno(1,2,3-cd)pyrene
Concen: 6.072 ng
RT: 26.432 min Scan# 3957
Delta R.T. -0.024 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

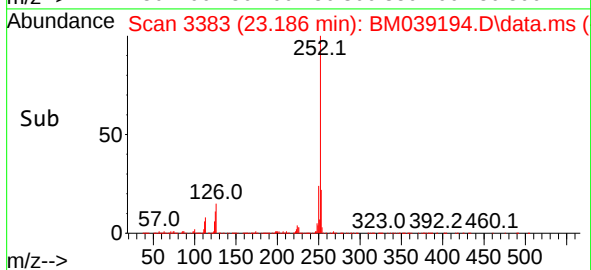
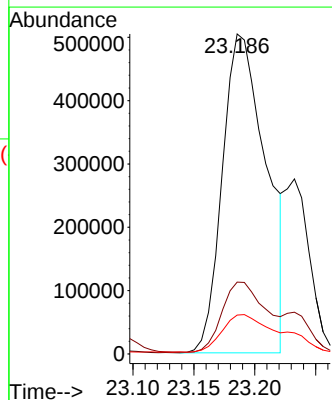
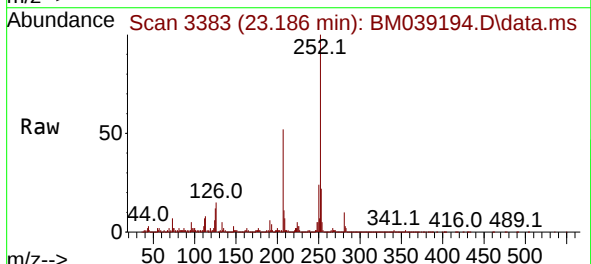
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL

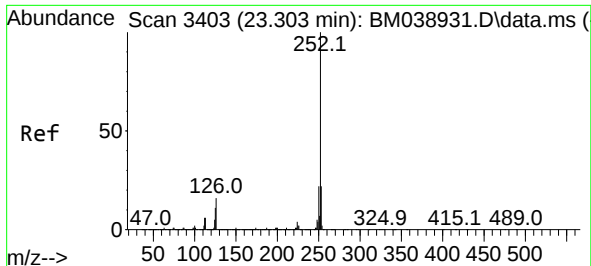
Tgt Ion:	276	Resp:	618572
Ion Ratio	Lower	Upper	
276	100		
138	23.7	22.1	33.1
277	24.9	20.1	30.1



#88
Benzo(b)fluoranthene
Concen: 14.738 ng
RT: 23.186 min Scan# 3383
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:	252	Resp:	1260633
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.6	26.4
125	12.2	8.8	13.2

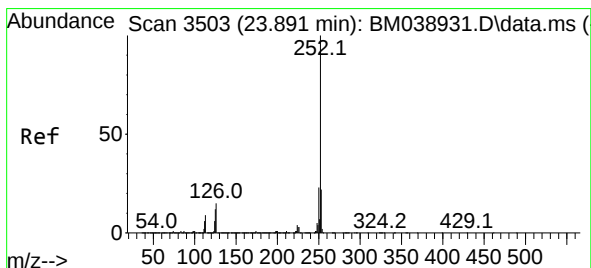
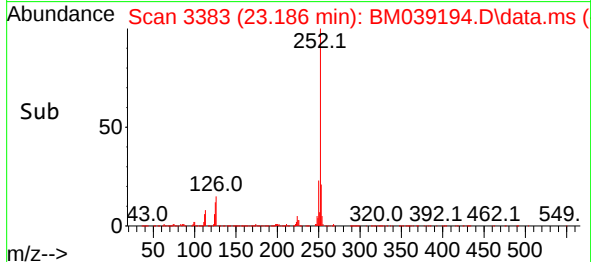
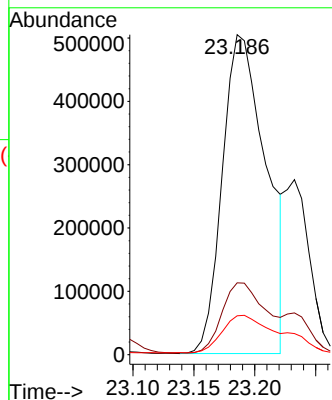
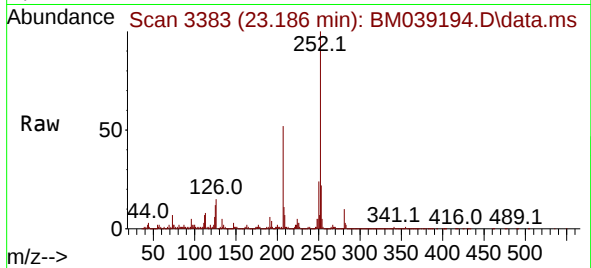




#89
Benzo(k)fluoranthene
Concen: 14.161 ng
RT: 23.186 min Scan# 31
Delta R.T. -0.053 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

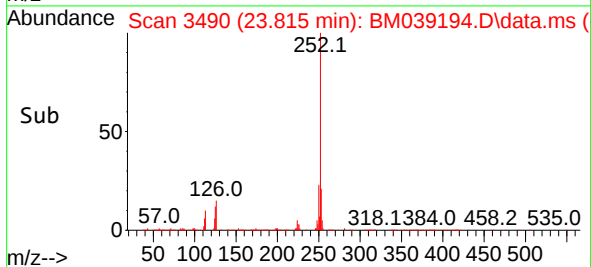
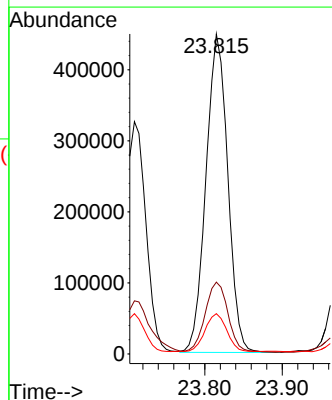
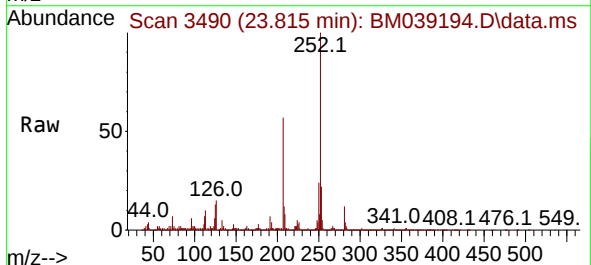
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL

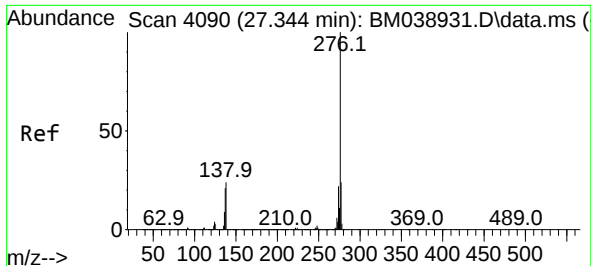
Tgt Ion:252 Resp: 1260633
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 12.2 8.9 13.3



#90
Benzo(a)pyrene
Concen: 10.657 ng
RT: 23.815 min Scan# 3490
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:252 Resp: 877303
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 12.6 9.8 14.8





#92
 Benzo(g,h,i)perylene
 Concen: 7.475 ng
 RT: 27.209 min Scan# 4090
 Delta R.T. -0.018 min
 Lab File: BM039194.D
 Acq: 29 Mar 2023 00:03

Instrument :
 BNA_M
 ClientSampleId :
 BROAD-CHANNEL-SUBSTATION-TP2DL

Tgt Ion:276 Resp: 631018
 Ion Ratio Lower Upper
 276 100
 277 24.3 19.3 28.9
 138 24.1 19.0 28.6

