

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032023\
 Data File : BM039063.D
 Acq On : 21 Mar 2023 02:49
 Operator : CG/JU
 Sample : 01974-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SHELL-ROAD-1

Quant Time: Mar 21 03:59:11 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 17 05:25:34 2023
 Response via : Initial Calibration

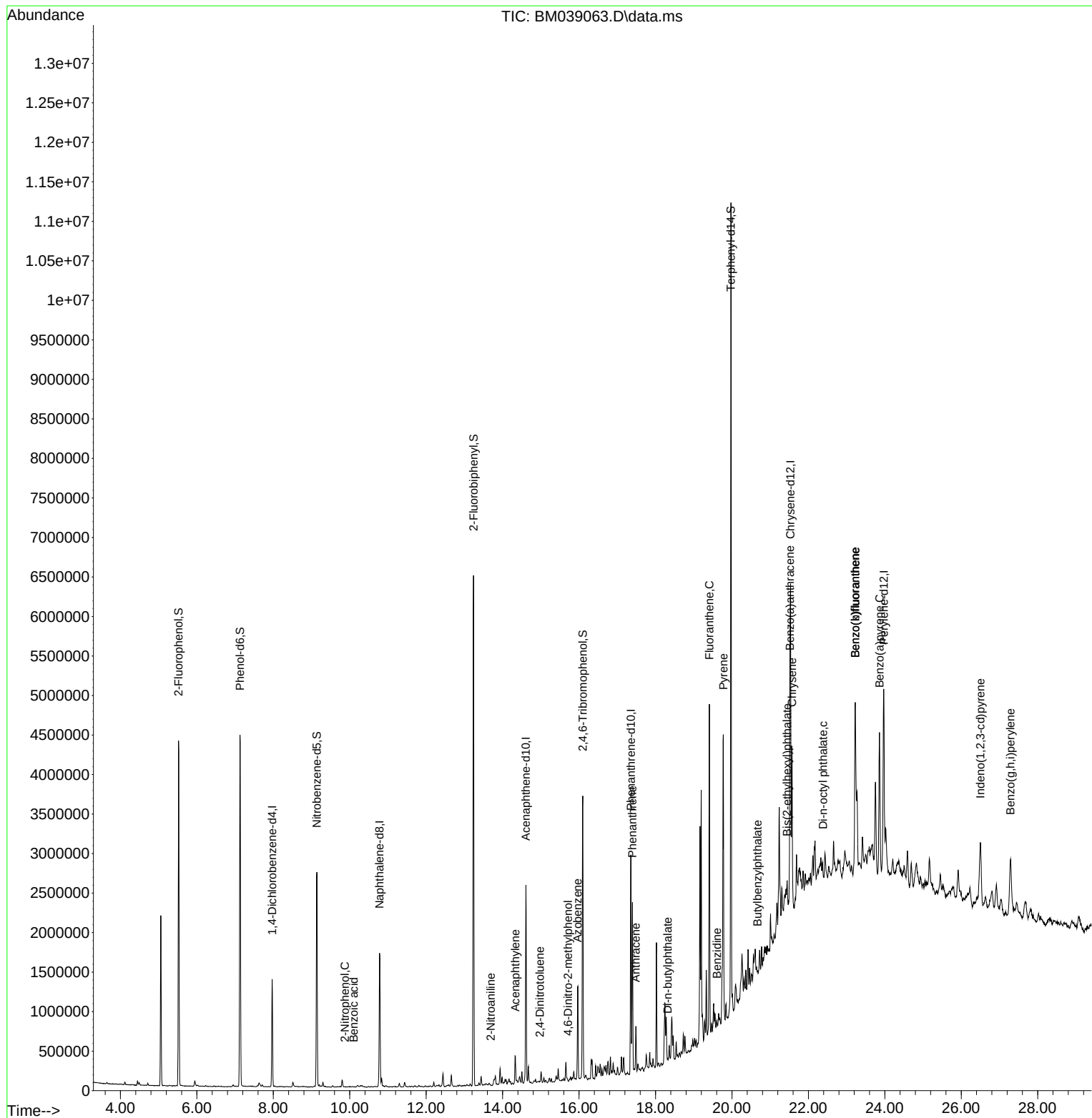
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.969	152	344254	20.000	ng	0.00
21) Naphthalene-d8	10.780	136	1397699	20.000	ng	-0.01
39) Acenaphthene-d10	14.610	164	797641	20.000	ng	0.00
64) Phenanthrene-d10	17.356	188	1624239	20.000	ng	0.00
76) Chrysene-d12	21.533	240	1485503	20.000	ng	0.00
86) Perylene-d12	23.974	264	1684361	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1902896	83.980	ng	0.00
7) Phenol-d6	7.128	99	2589726	87.991	ng	0.00
23) Nitrobenzene-d5	9.139	82	1555255	54.658	ng	0.00
42) 2,4,6-Tribromophenol	16.098	330	612555	66.384	ng	0.00
45) 2-Fluorobiphenyl	13.239	172	3197431	52.184	ng	0.00
79) Terphenyl-d14	19.974	244	4561108	56.137	ng	0.00
Target Compounds						
					Qvalue	
26) 2-Nitrophenol	9.875	139	53	2.994	ng	# 1
32) Benzoic acid	10.104	122	144	5.740	ng	# 1
48) 2-Nitroaniline	13.692	65	77	2.220	ng	# 31
49) Acenaphthylene	14.333	152	192883	2.376	ng	98
57) 2,4-Dinitrotoluene	14.974	165	437	2.095	ng	# 76
63) Azobenzene	15.962	77	346435	5.482	ng	# 1
65) 4,6-Dinitro-2-methylph...	15.709	198	56	5.093	ng	# 1
71) Phenanthrene	17.398	178	1217955	12.776	ng	99
72) Anthracene	17.486	178	343074	3.609	ng	99
74) Di-n-butylphthalate	18.321	149	22293	2.001	ng	# 90
75) Fluoranthene	19.409	202	2213562	21.992	ng	99
77) Benzidine	19.609	184	171	4.881	ng	# 1
78) Pyrene	19.774	202	2206960	19.780	ng	99
80) Butylbenzylphthalate	20.668	149	11254	3.537	ng	# 70
81) Benzo(a)anthracene	21.515	228	1137037	10.629	ng	97
83) Chrysene	21.574	228	1180419	11.345	ng	98
84) Bis(2-ethylhexyl)phtha...	21.444	149	99540	3.861	ng	# 99
85) Di-n-octyl phthalate	22.386	149	4181	3.830	ng	# 66
87) Indeno(1,2,3-cd)pyrene	26.503	276	847335	6.611	ng	96
88) Benzo(b)fluoranthene	23.227	252	1672372	15.541	ng	# 93
89) Benzo(k)fluoranthene	23.227	252	1672372	14.934	ng	# 93
90) Benzo(a)pyrene	23.862	252	1145219	11.058	ng	# 95
92) Benzo(g,h,i)perylene	27.291	276	887720	8.359	ng	98

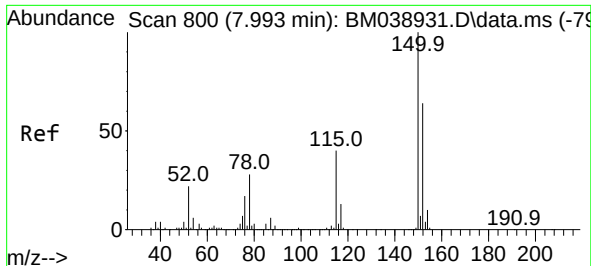
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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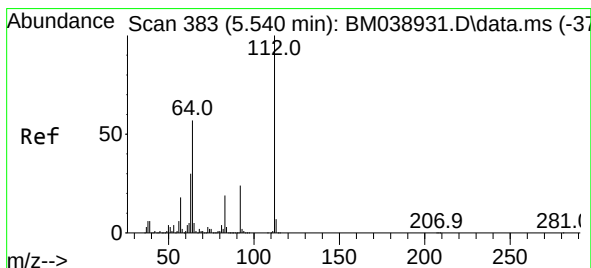
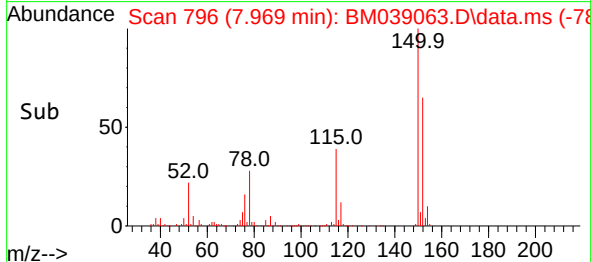
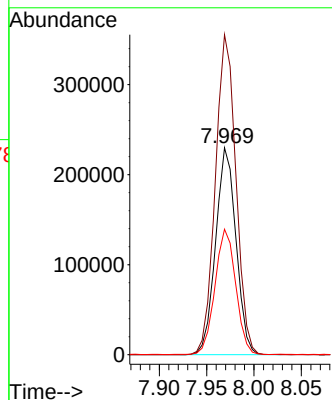
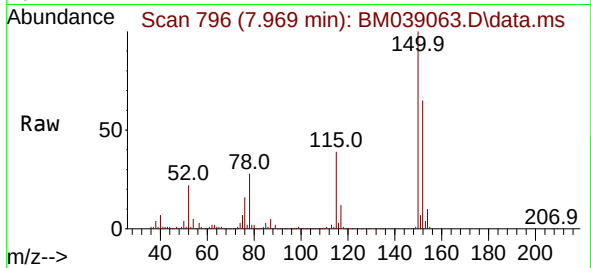




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.969 min Scan# 79
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

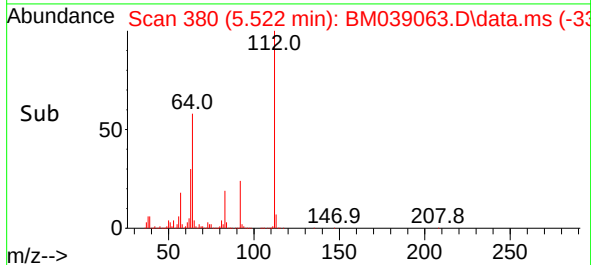
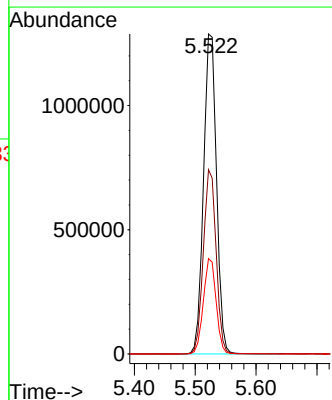
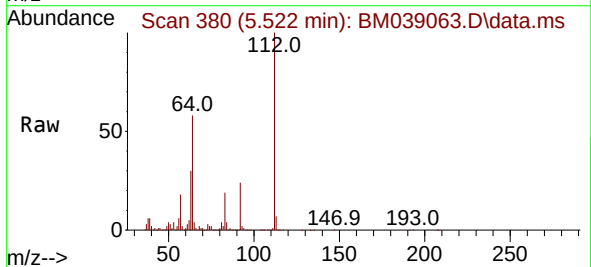
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-1

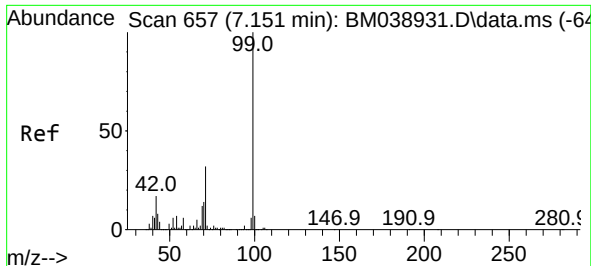
Tgt Ion:152 Resp: 344254
Ion Ratio Lower Upper
152 100
150 154.7 125.1 187.7
115 60.7 49.6 74.4



#5
2-Fluorophenol
Concen: 83.980 ng
RT: 5.522 min Scan# 380
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Tgt Ion:112 Resp: 1902896
Ion Ratio Lower Upper
112 100
64 57.6 45.9 68.9
63 29.8 23.8 35.8



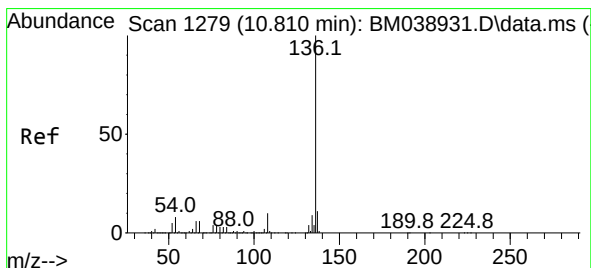
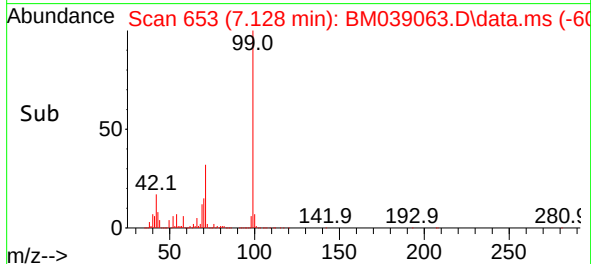
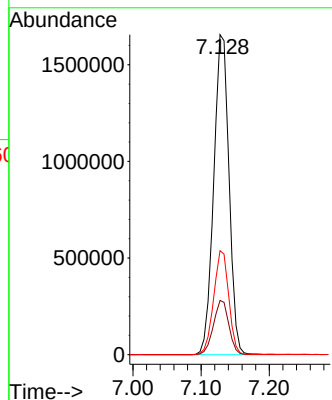
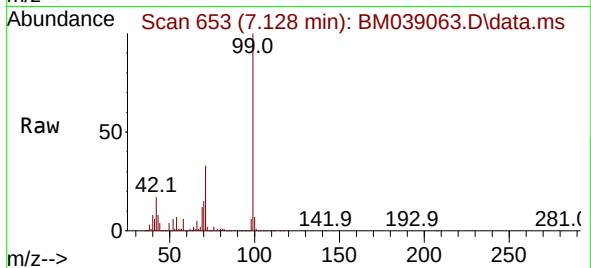


#7
Phenol-d6
Concen: 87.991 ng
RT: 7.128 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-1

Tgt Ion: 99 Resp: 2589726

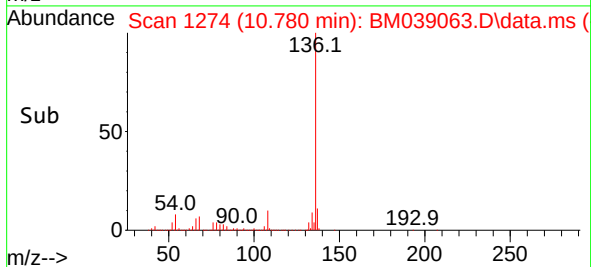
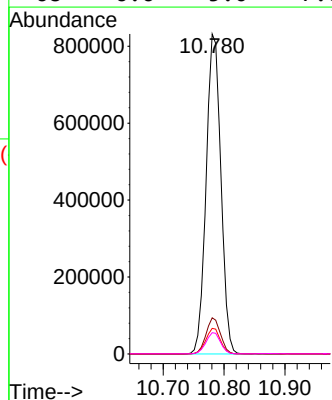
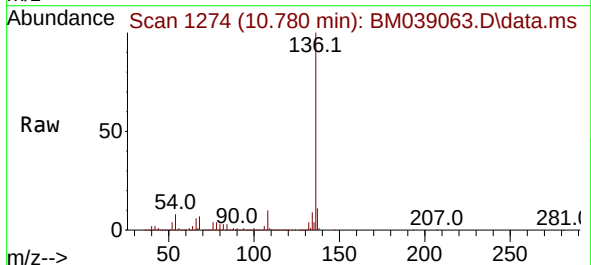
Ion	Ratio	Lower	Upper
99	100		
42	17.0	13.5	20.3
71	32.5	25.6	38.4

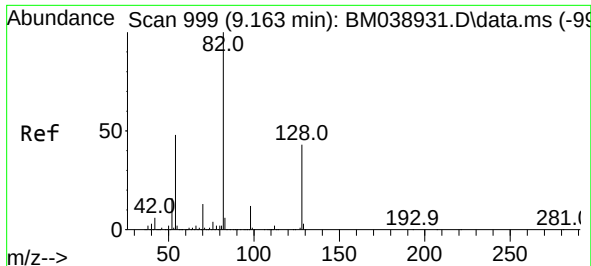


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.780 min Scan# 1274
Delta R.T. -0.012 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Tgt Ion: 136 Resp: 1397699

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.7	13.1
54	8.0	6.3	9.5
68	6.6	5.0	7.6

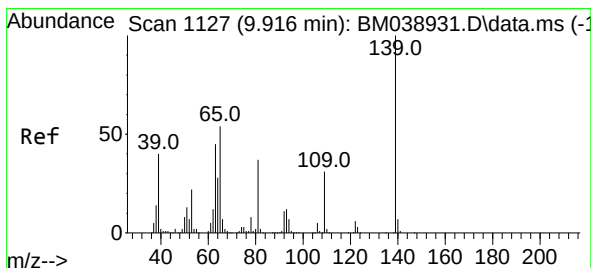
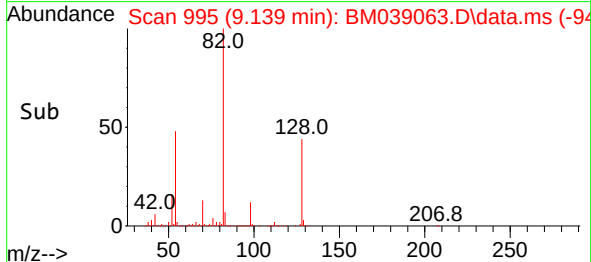
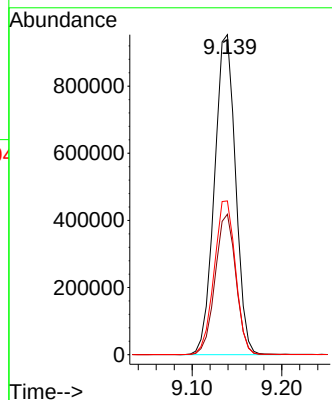
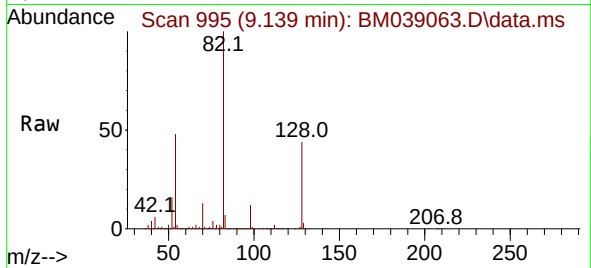




#23
Nitrobenzene-d5
Concen: 54.658 ng
RT: 9.139 min Scan# 995
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

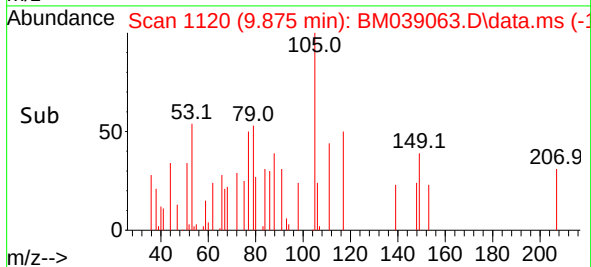
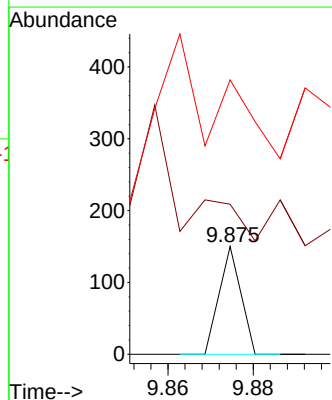
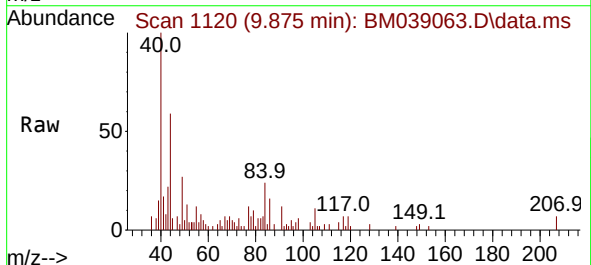
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-1

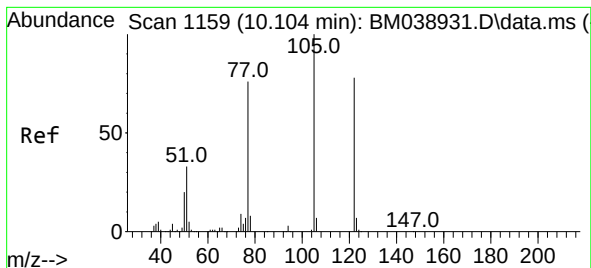
Tgt Ion: 82 Resp: 1555255
Ion Ratio Lower Upper
82 100
128 43.9 34.4 51.6
54 48.1 38.8 58.2



#26
2-Nitrophenol
Concen: 2.994 ng
RT: 9.875 min Scan# 1120
Delta R.T. -0.024 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Tgt Ion:139 Resp: 53
Ion Ratio Lower Upper
139 100
109 139.3 24.5 36.7#
65 254.7 43.0 64.6#





#32

Benzoic acid

Concen: 5.740 ng

RT: 10.104 min Scan# 1159

Delta R.T. 0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

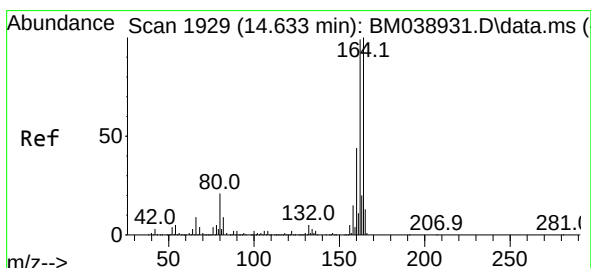
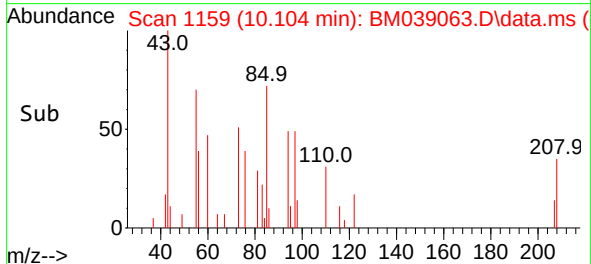
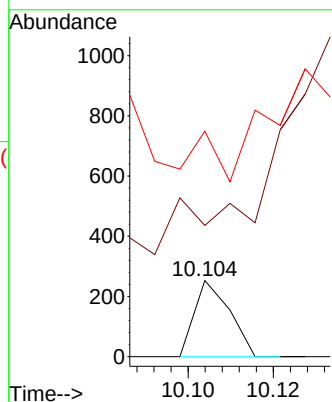
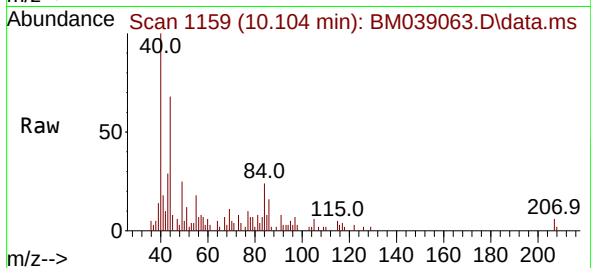
Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

Tgt Ion:	122	Resp:	144
Ion	Ratio	Lower	Upper
122	100		
105	172.3	104.2	144.2#
77	296.0	75.1	115.1#



#39

Acenaphthene-d10

Concen: 20.000 ng

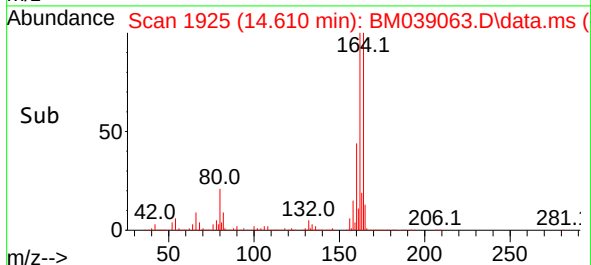
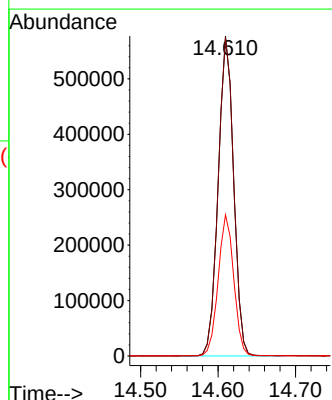
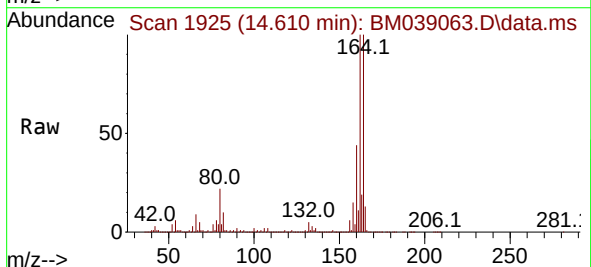
RT: 14.610 min Scan# 1925

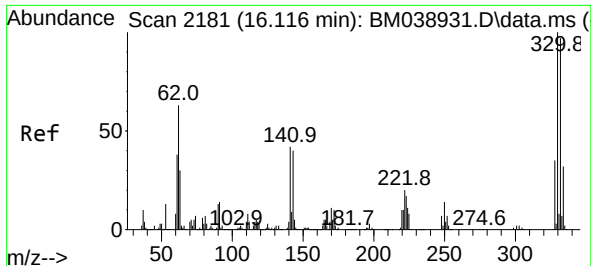
Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Tgt Ion:	164	Resp:	797641
Ion	Ratio	Lower	Upper
164	100		
162	99.6	79.2	118.8
160	44.1	35.5	53.3

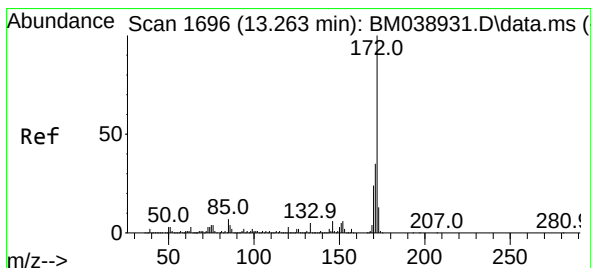
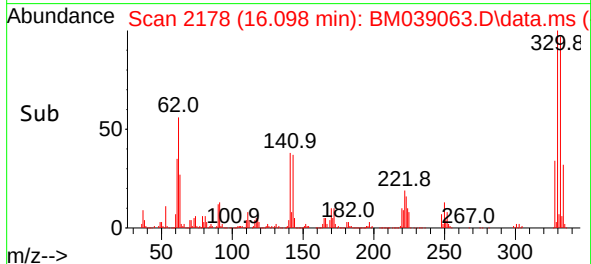
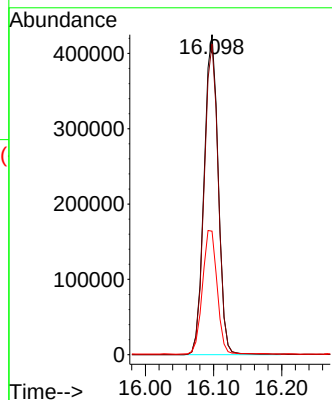
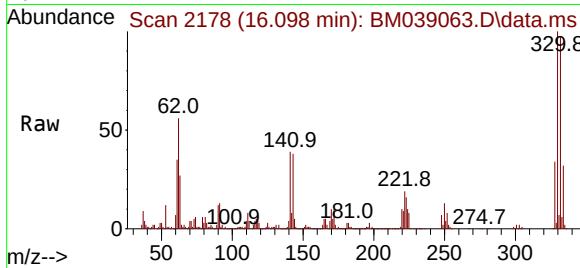




#42
2,4,6-Tribromophenol
Concen: 66.384 ng
RT: 16.098 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

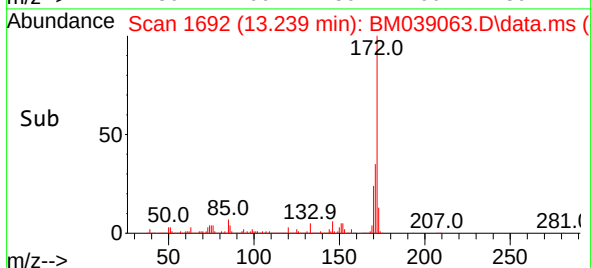
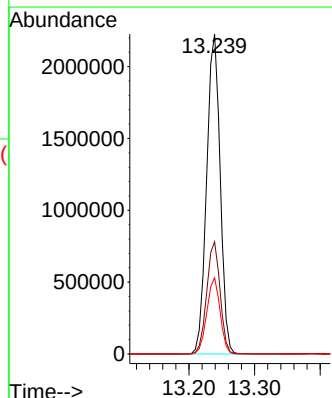
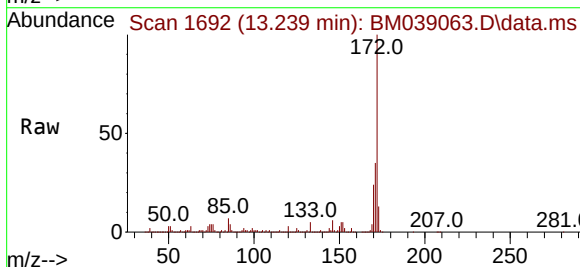
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ClientSampleId :
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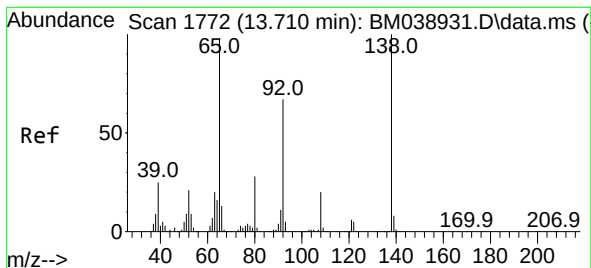
Tgt Ion:330 Resp: 612555
Ion Ratio Lower Upper
330 100
332 96.8 77.4 116.0
141 39.8 32.2 48.4



#45
2-Fluorobiphenyl
Concen: 52.184 ng
RT: 13.239 min Scan# 1692
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Tgt Ion:172 Resp: 3197431
Ion Ratio Lower Upper
172 100
171 35.0 28.2 42.2
170 23.8 19.1 28.7





#48

2-Nitroaniline

Concen: 2.220 ng

RT: 13.692 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

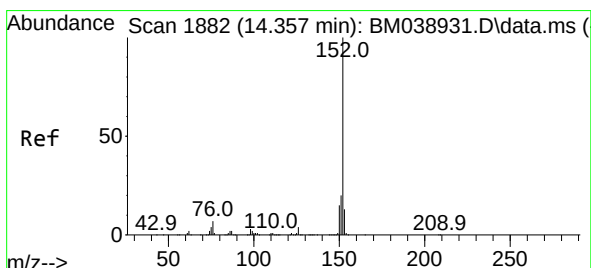
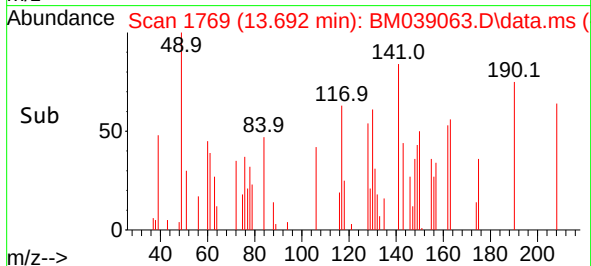
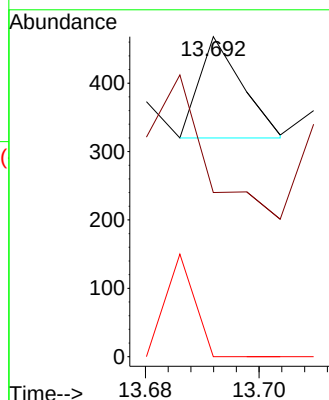
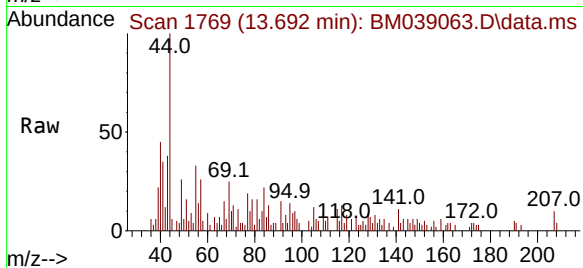
Tgt Ion: 65 Resp: 77

Ion Ratio Lower Upper

65 100

92 51.3 54.9 82.3#

138 0.0 81.6 122.4#



#49

Acenaphthylene

Concen: 2.376 ng

RT: 14.333 min Scan# 1878

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

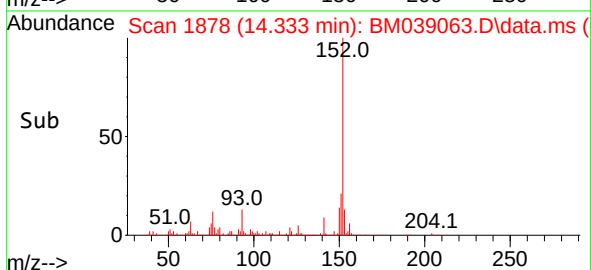
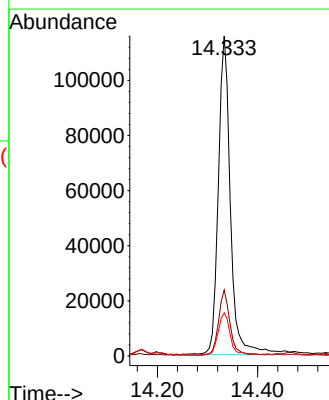
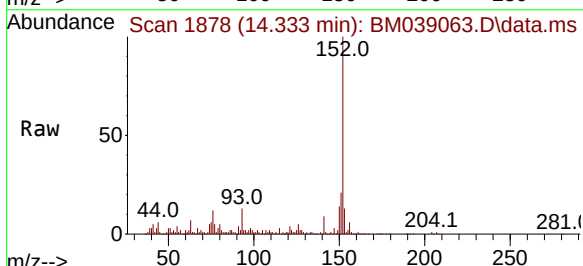
Tgt Ion:152 Resp: 192883

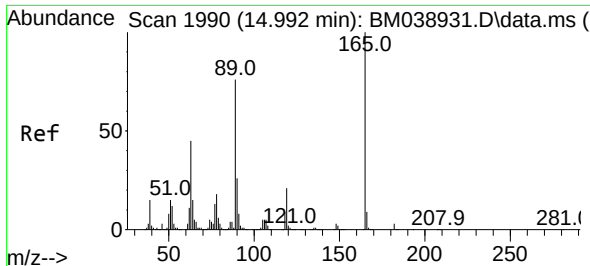
Ion Ratio Lower Upper

152 100

151 20.6 15.8 23.8

153 13.5 10.4 15.6

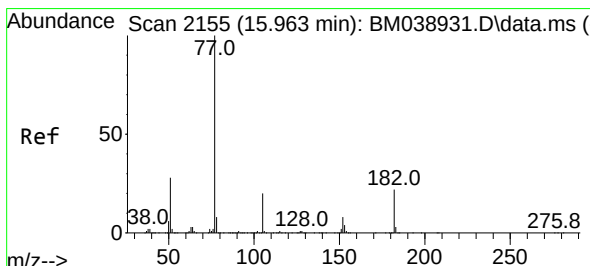
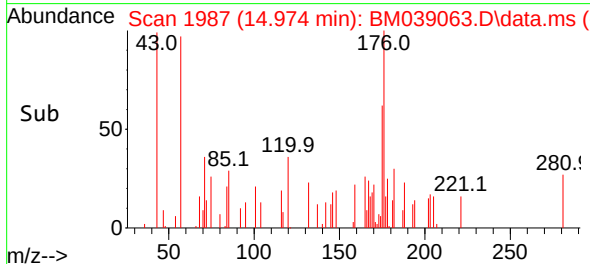
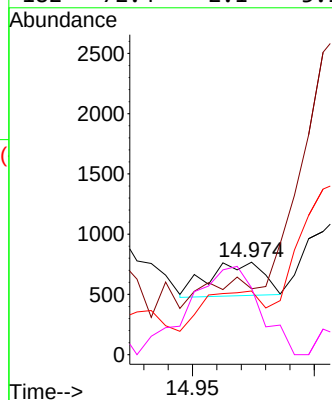
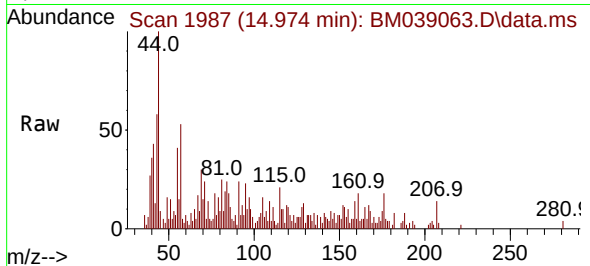




#57
2,4-Dinitrotoluene
Concen: 2.095 ng
RT: 14.974 min Scan# 1990
Delta R.T. -0.000 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

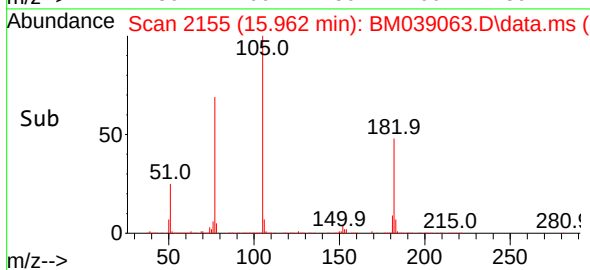
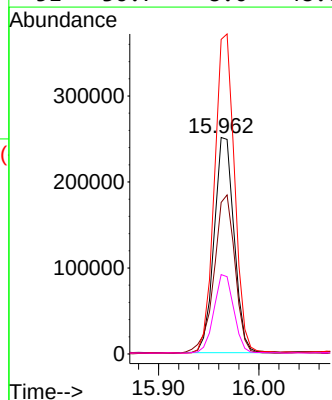
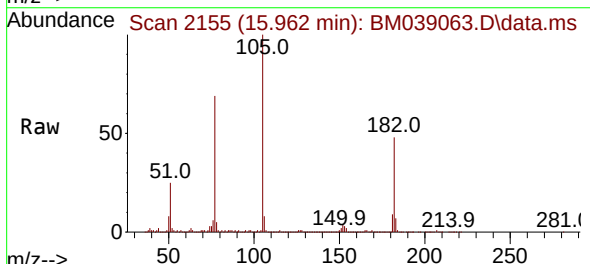
Instrument :
BNA_M
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SHELL-ROAD-1

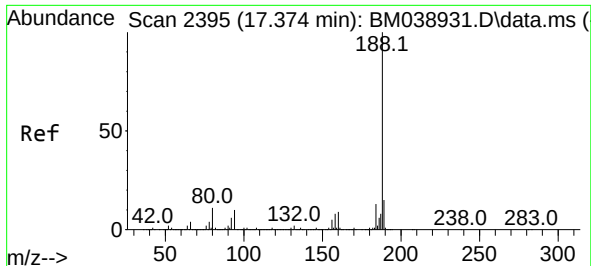
Tgt Ion:165 Resp: 437
Ion Ratio Lower Upper
165 100
63 71.3 35.9 53.9#
89 69.0 61.0 91.6
182 72.4 2.1 3.1#



#63
Azobenzene
Concen: 5.482 ng
RT: 15.962 min Scan# 2155
Delta R.T. 0.012 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Tgt Ion: 77 Resp: 346435
Ion Ratio Lower Upper
77 100
182 70.0 2.0 42.0#
105 145.3 0.4 40.4#
51 36.7 8.0 48.0

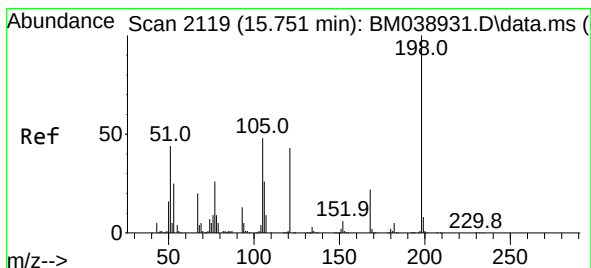
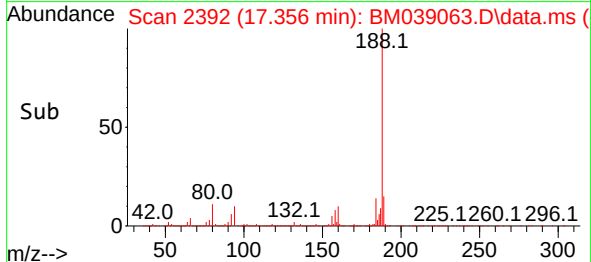
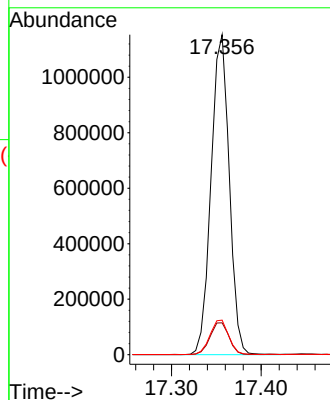
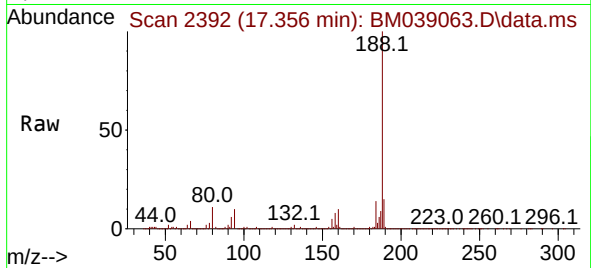




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.356 min Scan# 2111
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

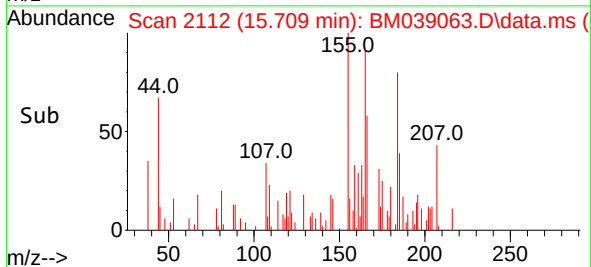
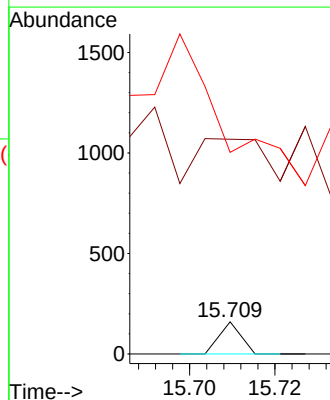
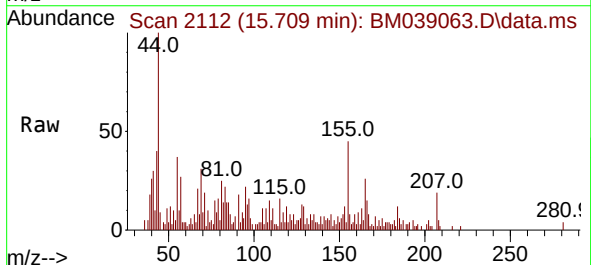
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-1

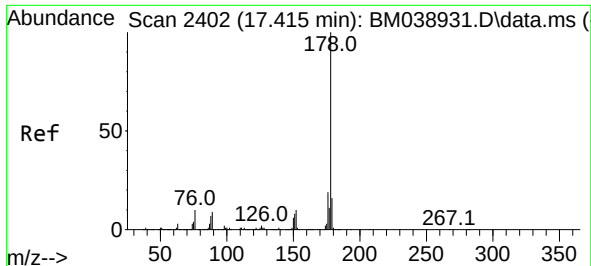
Tgt Ion:188 Resp: 1624239
Ion Ratio Lower Upper
188 100
94 9.9 7.9 11.9
80 10.8 8.5 12.7



#65
4,6-Dinitro-2-methylphenol
Concen: 5.093 ng
RT: 15.709 min Scan# 2112
Delta R.T. -0.029 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Tgt Ion:198 Resp: 56
Ion Ratio Lower Upper
198 100
51 667.5 30.1 70.1#
105 626.9 29.3 69.3#

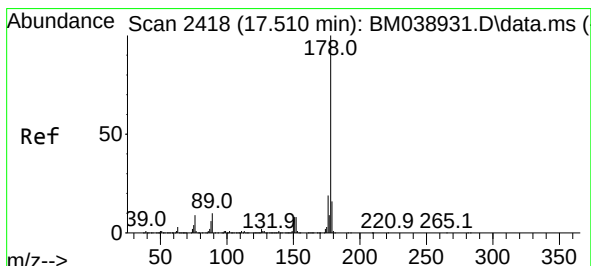
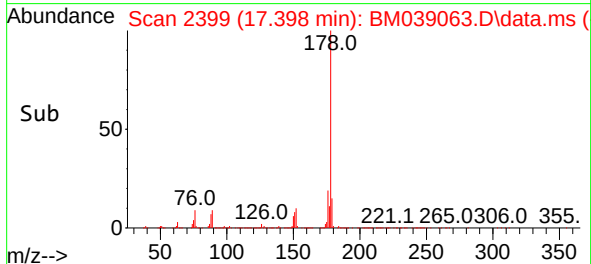
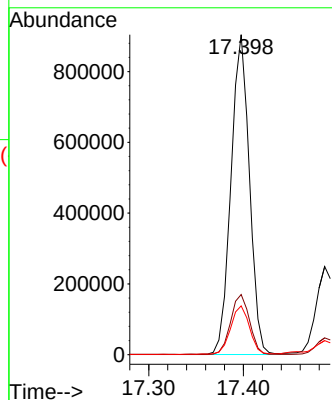
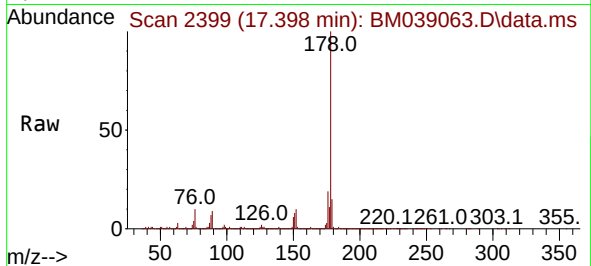




#71
Phenanthrene
Concen: 12.776 ng
RT: 17.398 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

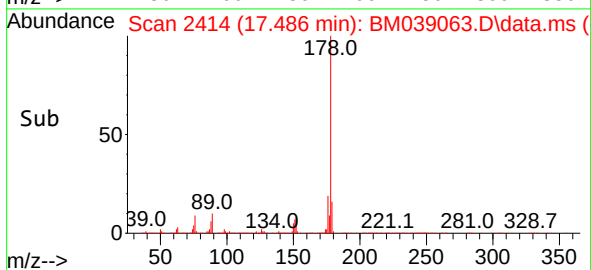
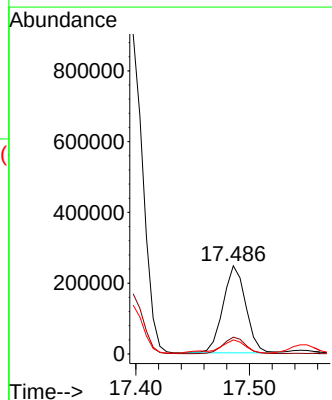
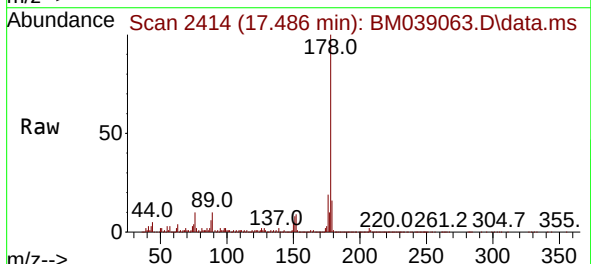
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-1

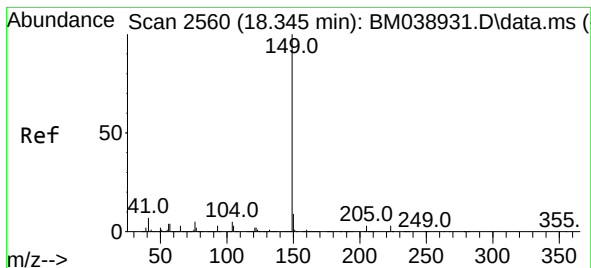
Tgt Ion:178 Resp: 1217955
Ion Ratio Lower Upper
178 100
176 18.8 15.6 23.4
179 15.2 12.5 18.7



#72
Anthracene
Concen: 3.609 ng
RT: 17.486 min Scan# 2414
Delta R.T. -0.006 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Tgt Ion:178 Resp: 343074
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 16.0 12.5 18.7





#74

Di-n-butylphthalate

Concen: 2.001 ng

RT: 18.321 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

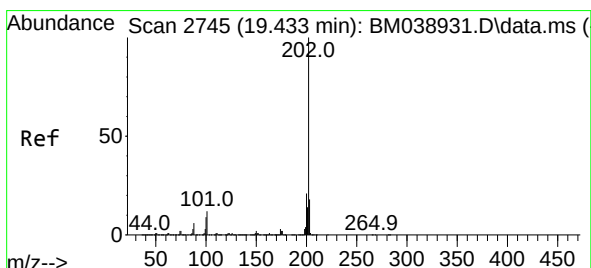
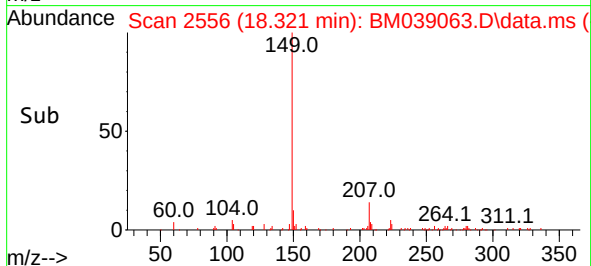
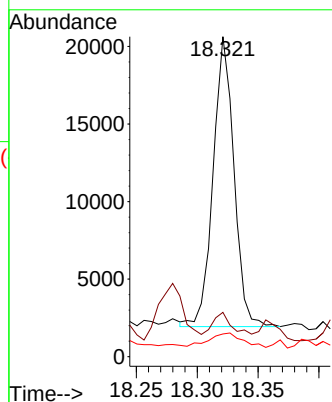
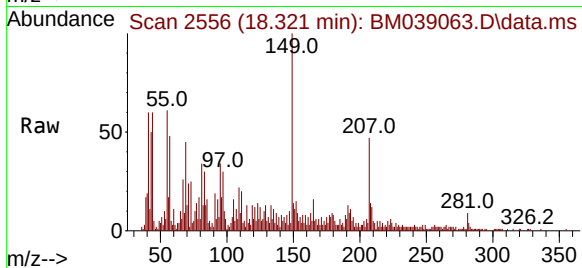
Tgt Ion:149 Resp: 22293

Ion Ratio Lower Upper

149 100

150 13.9 7.4 11.2#

104 7.1 4.3 6.5#



#75

Fluoranthene

Concen: 21.992 ng

RT: 19.409 min Scan# 2741

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

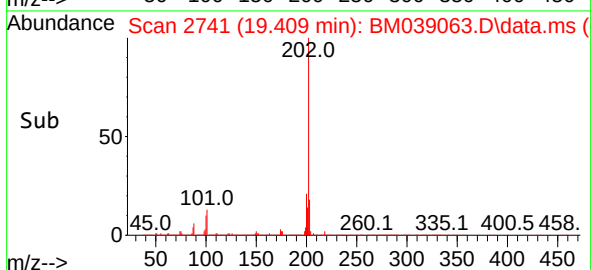
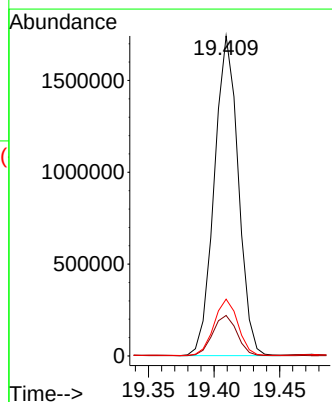
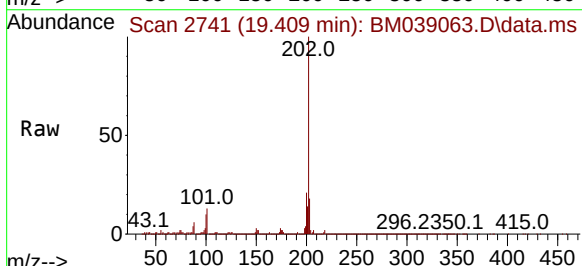
Tgt Ion:202 Resp: 2213562

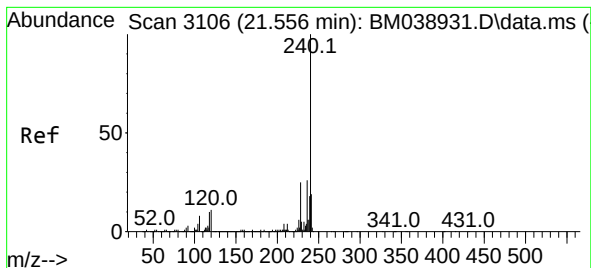
Ion Ratio Lower Upper

202 100

101 12.7 0.0 31.7

203 17.8 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.533 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

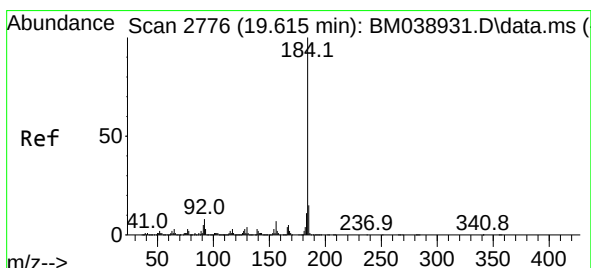
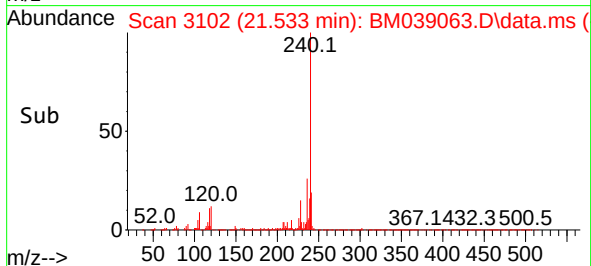
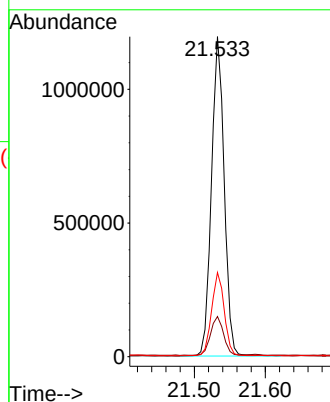
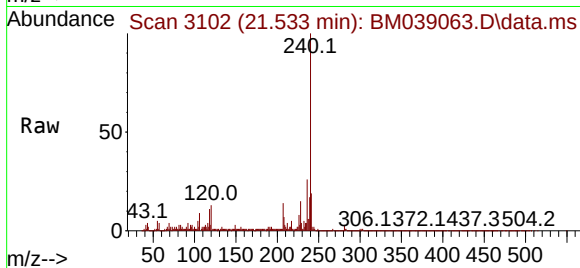
Tgt Ion:240 Resp: 1485503

Ion Ratio Lower Upper

240 100

120 12.5 9.2 13.8

236 26.3 20.8 31.2



#77

Benzidine

Concen: 4.881 ng

RT: 19.609 min Scan# 2775

Delta R.T. 0.012 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

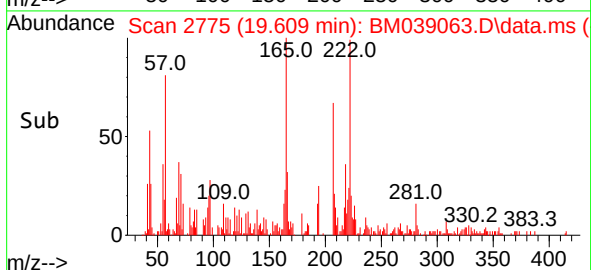
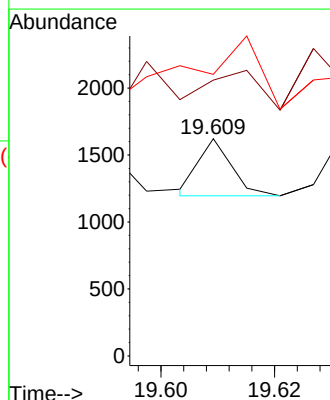
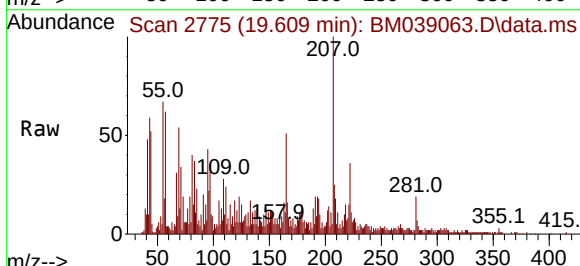
Tgt Ion:184 Resp: 171

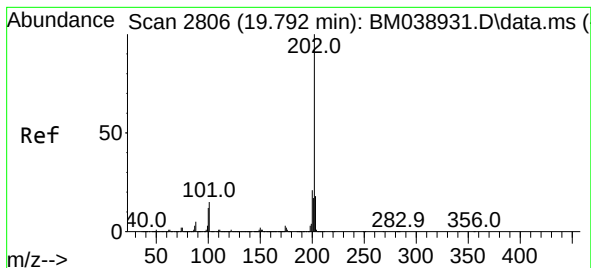
Ion Ratio Lower Upper

184 100

185 126.9 12.2 18.4#

183 129.6 8.8 13.2#





#78

Pyrene

Concen: 19.780 ng

RT: 19.774 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

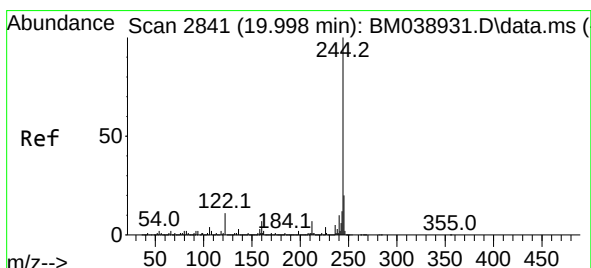
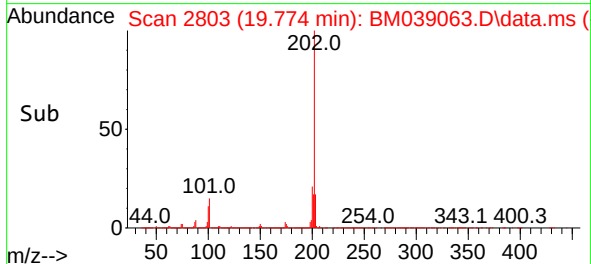
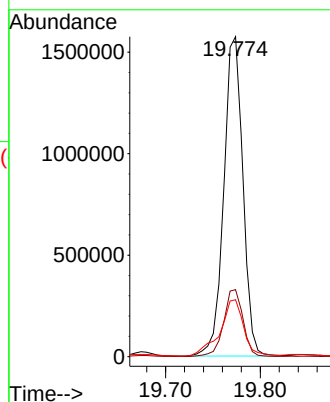
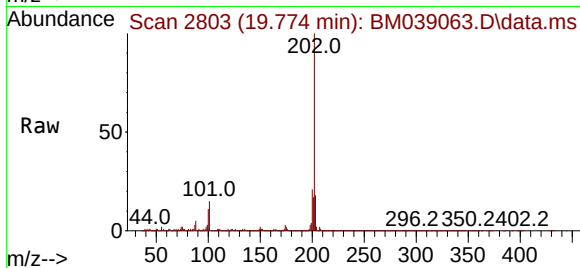
Tgt Ion:202 Resp: 2206960

Ion Ratio Lower Upper

202 100

200 21.0 17.1 25.7

203 17.8 14.1 21.1



#79

Terphenyl-d14

Concen: 56.137 ng

RT: 19.974 min Scan# 2837

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

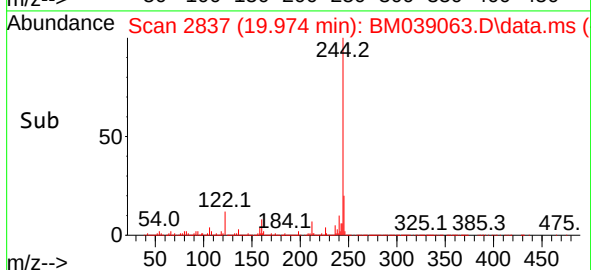
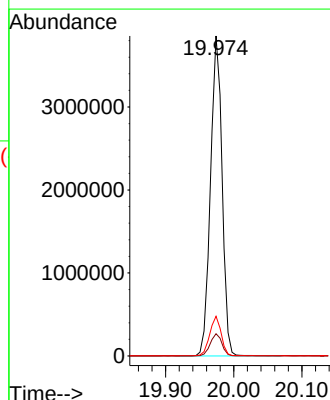
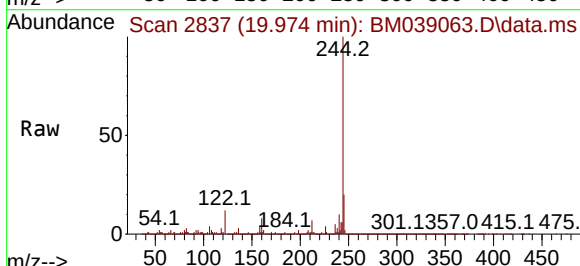
Tgt Ion:244 Resp: 4561108

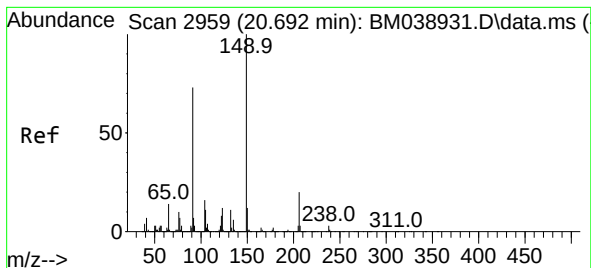
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 12.4 9.0 13.4





#80

Butylbenzylphthalate

Concen: 3.537 ng

RT: 20.668 min Scan# 2959

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

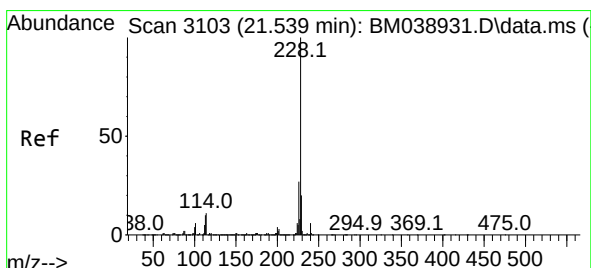
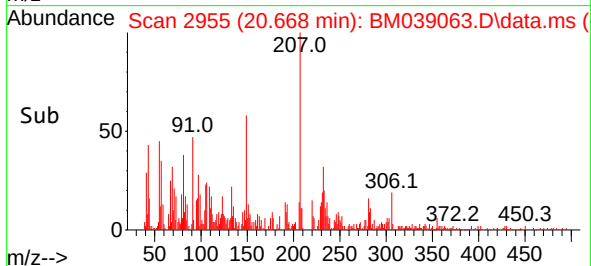
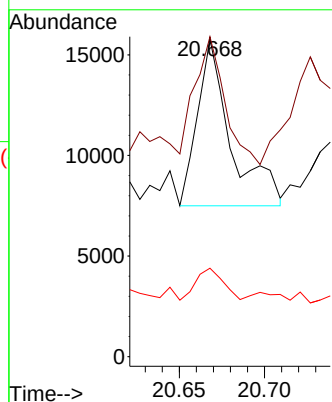
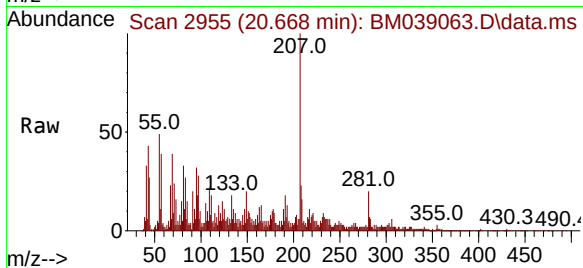
Tgt Ion:149 Resp: 11254

Ion Ratio Lower Upper

149 100

91 100.7 58.4 87.6#

206 27.8 16.1 24.1#



#81

Benzo(a)anthracene

Concen: 10.629 ng

RT: 21.515 min Scan# 3099

Delta R.T. -0.012 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

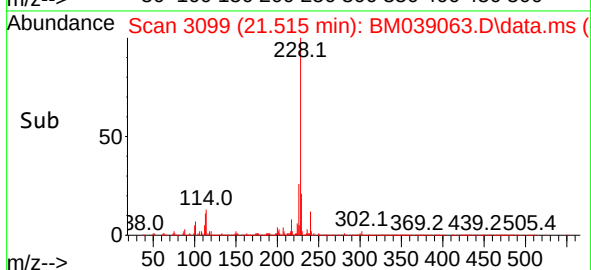
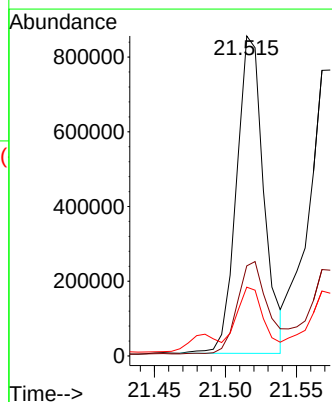
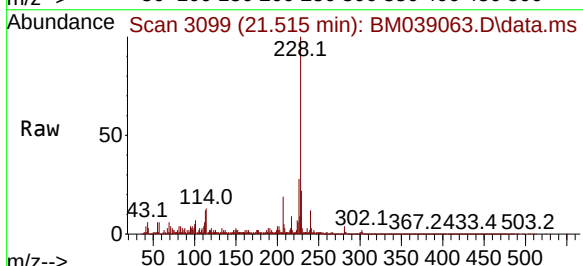
Tgt Ion:228 Resp: 1137037

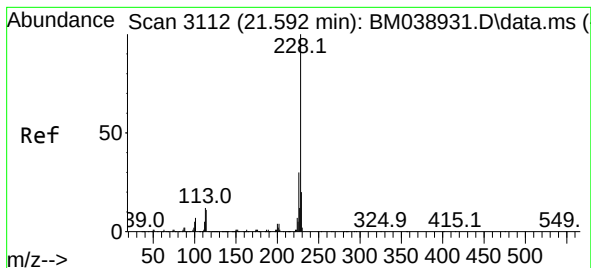
Ion Ratio Lower Upper

228 100

226 28.2 21.4 32.2

229 21.5 15.7 23.5





#83

Chrysene

Concen: 11.345 ng

RT: 21.574 min Scan# 3112

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

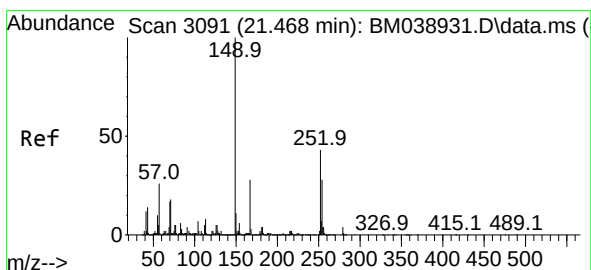
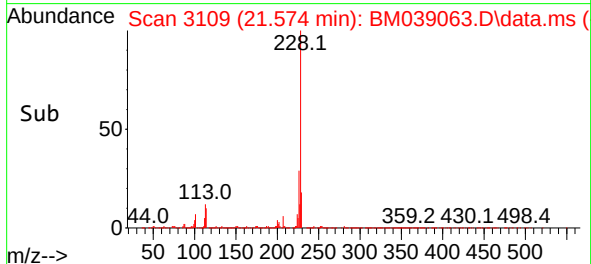
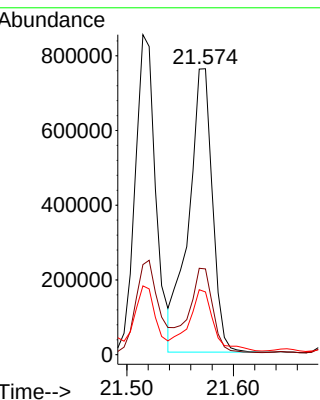
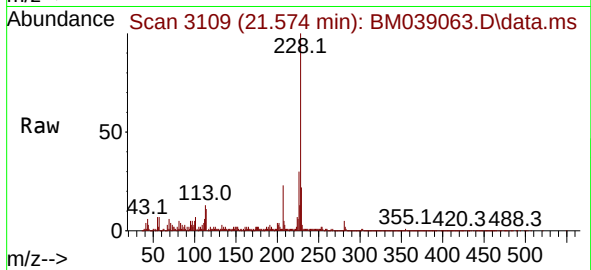
Tgt Ion:228 Resp: 1180419

Ion Ratio Lower Upper

228 100

226 30.0 24.0 36.0

229 21.9 16.0 24.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.861 ng

RT: 21.444 min Scan# 3087

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

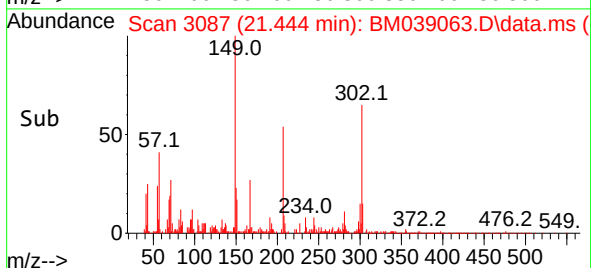
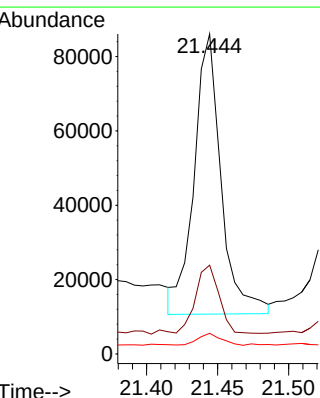
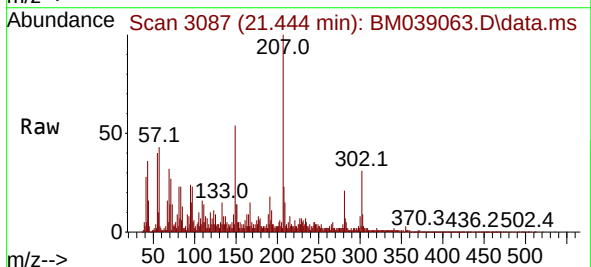
Tgt Ion:149 Resp: 99540

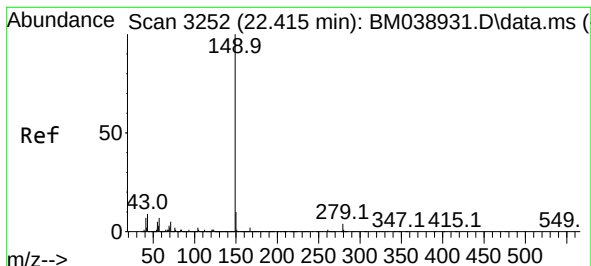
Ion Ratio Lower Upper

149 100

167 27.7 22.3 33.5

279 6.5 3.2 4.8#





#85

Di-n-octyl phthalate

Concen: 3.830 ng

RT: 22.386 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

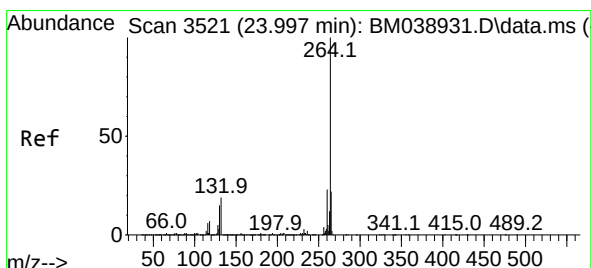
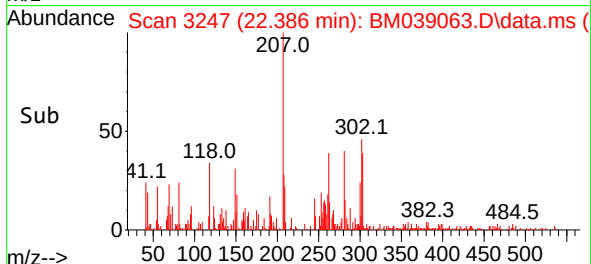
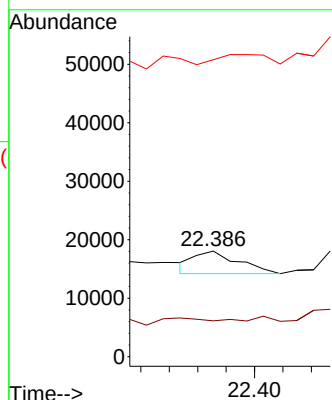
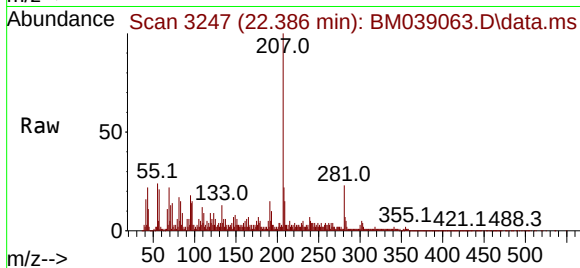
Tgt Ion:149 Resp: 4181

Ion Ratio Lower Upper

149 100

167 34.7 1.2 1.8#

43 0.0 7.4 11.2#



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.974 min Scan# 3517

Delta R.T. -0.006 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

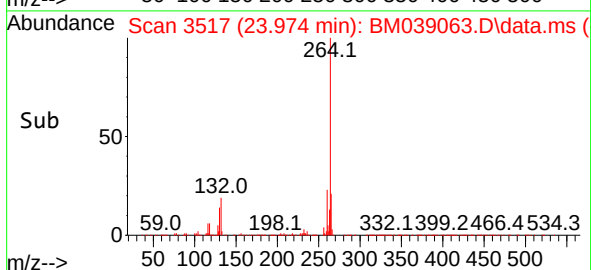
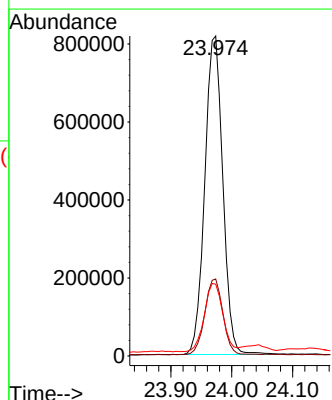
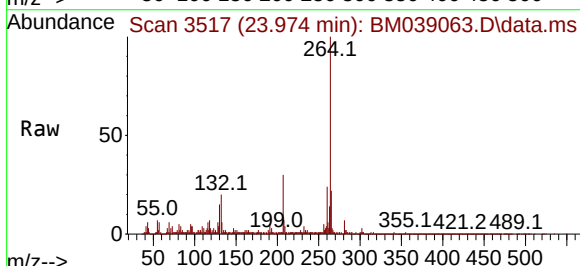
Tgt Ion:264 Resp: 1684361

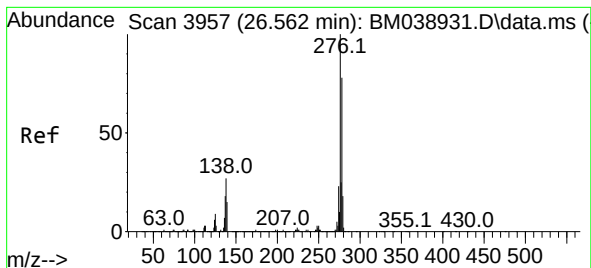
Ion Ratio Lower Upper

264 100

260 24.1 18.7 28.1

265 22.5 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.611 ng

RT: 26.503 min Scan# 3947

Delta R.T. -0.018 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1

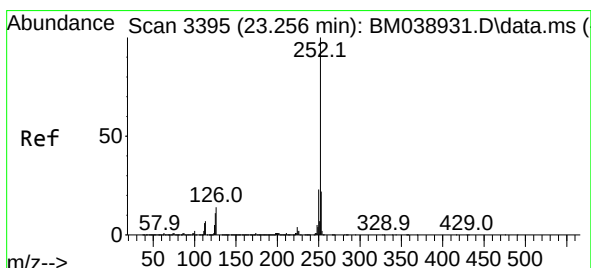
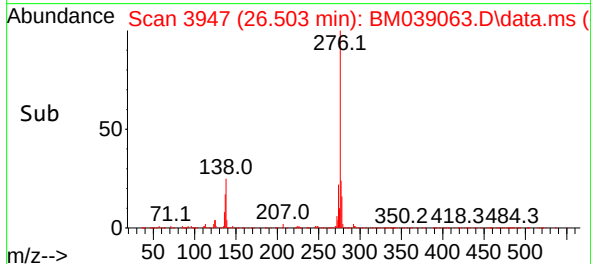
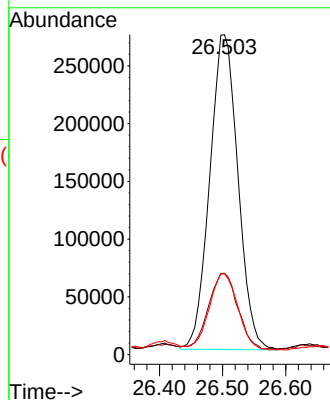
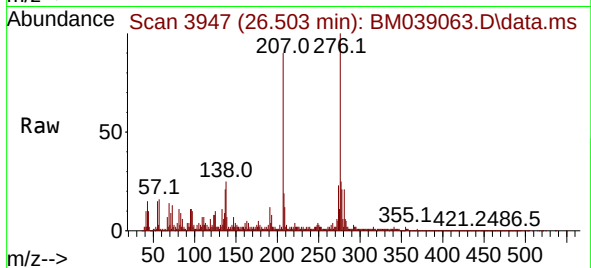
Tgt Ion:276 Resp: 847335

Ion Ratio Lower Upper

276 100

138 24.6 22.1 33.1

277 24.5 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 15.541 ng

RT: 23.227 min Scan# 3390

Delta R.T. -0.012 min

Lab File: BM039063.D

Acq: 21 Mar 2023 02:49

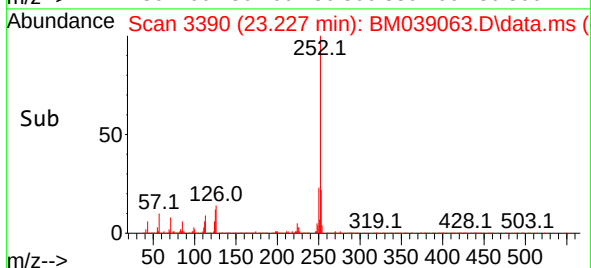
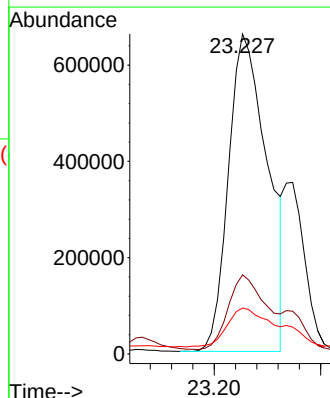
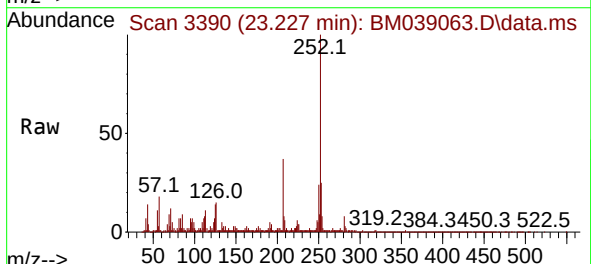
Tgt Ion:252 Resp: 1672372

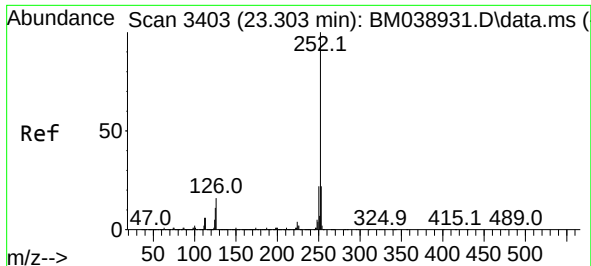
Ion Ratio Lower Upper

252 100

253 24.7 17.6 26.4

125 14.4 8.8 13.2#

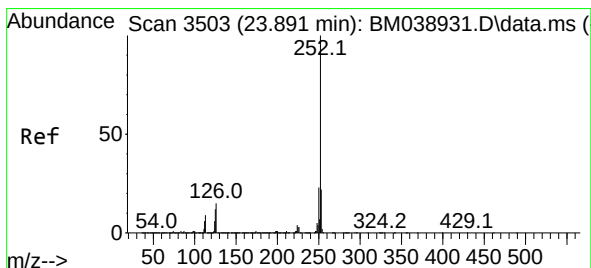
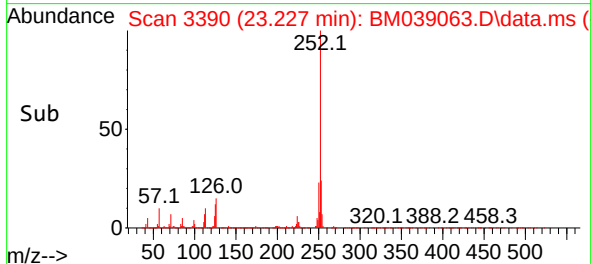
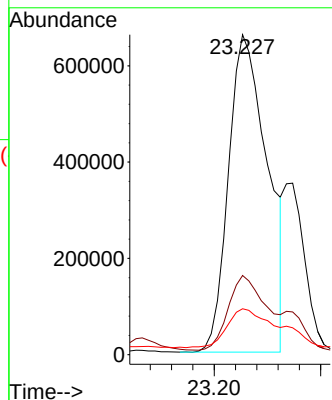
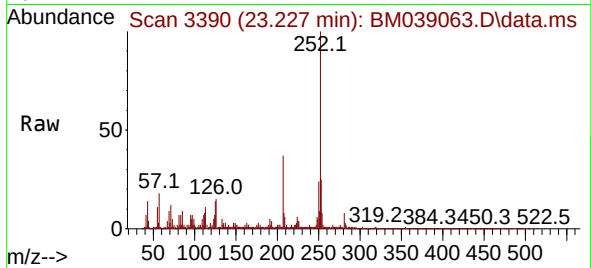




#89
Benzo(k)fluoranthene
Concen: 14.934 ng
RT: 23.227 min Scan# 31
Delta R.T. -0.059 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

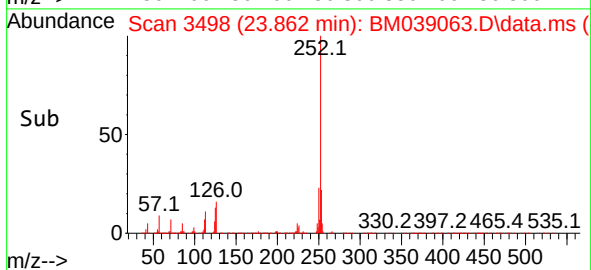
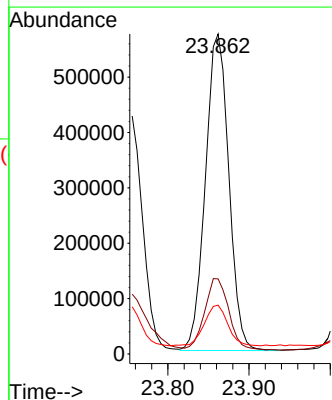
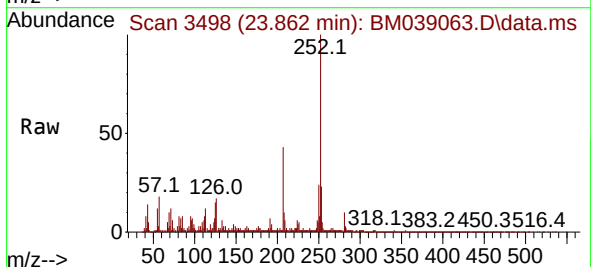
Instrument :
BNA_M
ClientSampleId :
SHELL-ROAD-1

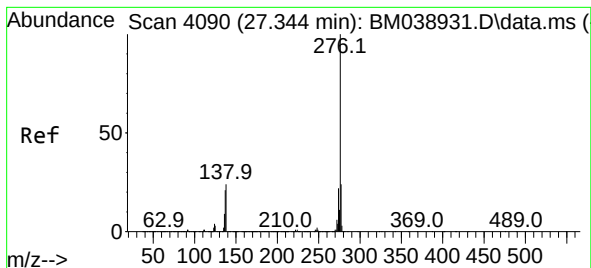
Tgt Ion:252 Resp: 1672372
Ion Ratio Lower Upper
252 100
253 24.7 17.5 26.3
125 14.4 8.9 13.3#



#90
Benzo(a)pyrene
Concen: 11.058 ng
RT: 23.862 min Scan# 3498
Delta R.T. -0.012 min
Lab File: BM039063.D
Acq: 21 Mar 2023 02:49

Tgt Ion:252 Resp: 1145219
Ion Ratio Lower Upper
252 100
253 23.5 17.6 26.4
125 15.2 9.8 14.8#





#92

Benzo(g,h,i)perylene

Concen: 8.359 ng

RT: 27.291 min Scan# 40

Delta R.T. -0.012 min

Lab File: BM039063.D

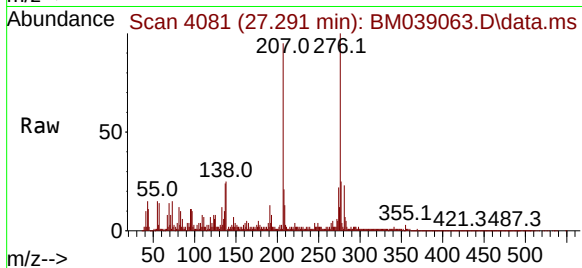
Acq: 21 Mar 2023 02:49

Instrument :

BNA_M

ClientSampleId :

SHELL-ROAD-1



Tgt Ion:276 Resp: 887720

Ion Ratio Lower Upper

276 100

277 24.7 19.3 28.9

138 25.3 19.0 28.6

