

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM052423\
 Data File : BM039994.D
 Acq On : 24 May 2023 21:15
 Operator : CG/JU
 Sample : 02888-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S-H4(BHF)

Quant Time: May 25 04:30:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM052323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 24 01:06:13 2023
 Response via : Initial Calibration

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

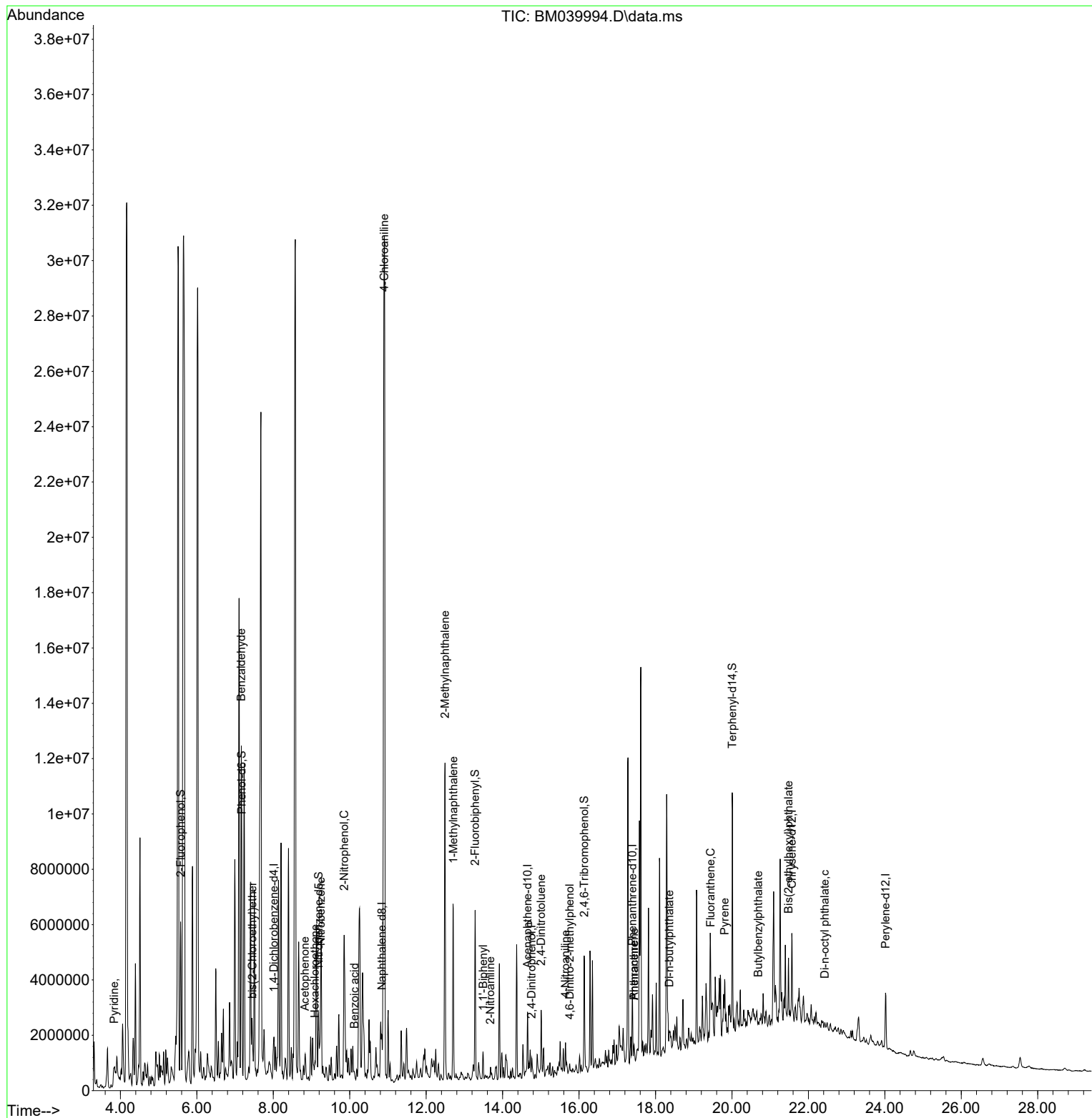
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.016	152	408982	20.000	ng	0.00
21) Naphthalene-d8	10.839	136	1569180	20.000	ng	0.00
39) Acenaphthene-d10	14.651	164	789163	20.000	ng	0.00
64) Phenanthrene-d10	17.398	188	1472413	20.000	ng	0.00
76) Chrysene-d12	21.568	240	1306668	20.000	ng	0.00
86) Perylene-d12	24.021	264	1521759	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.575	112	1989436	74.616	ng	0.01
7) Phenol-d6	7.175	99	2244665	64.538	ng	0.00
23) Nitrobenzene-d5	9.187	82	1264911	43.497	ng	0.00
42) 2,4,6-Tribromophenol	16.139	330	760568	74.254	ng	0.00
45) 2-Fluorobiphenyl	13.280	172	2897944	43.313	ng	0.00
79) Terphenyl-d14	20.009	244	3759453	44.673	ng	0.00
Target Compounds						Qvalue
3) Pyridine	3.834	79	455692	15.415	ng	# 39
9) Benzaldehyde	7.163	77	649117	38.607	ng	# 1
11) bis(2-Chloroethyl)ether	7.457	93	90109	3.138	ng	# 45
18) Hexachloroethane	9.087	117	383497	34.982	ng	# 3
22) Acetophenone	8.828	105	676569	15.974	ng	# 63
24) Nitrobenzene	9.239	77	158445	5.371	ng	# 23
26) 2-Nitrophenol	9.857	139	30381	2.911	ng	# 1
32) Benzoic acid	10.122	122	2327	7.924	ng	# 1
33) 4-Chloroaniline	10.904	127	5943640	162.912	ng	# 34
37) 2-Methylnaphthalene	12.492	142	5458478	94.585	ng	98
38) 1-Methylnaphthalene	12.710	142	2961883	54.828	ng	97
46) 1,1'-Biphenyl	13.492	154	355124	5.256	ng	99
48) 2-Nitroaniline	13.680	65	4845	2.896	ng	# 36
54) 2,4-Dinitrophenol	14.757	184	1554	8.262	ng	# 1
57) 2,4-Dinitrotoluene	15.010	165	45152	6.289	ng	# 63
62) 4-Nitroaniline	15.645	138	45151	3.220	ng	# 41
65) 4,6-Dinitro-2-methylph...	15.751	198	544	7.898	ng	# 1
71) Phenanthrene	17.439	178	275949	3.133	ng	99
72) Anthracene	17.439	178	275949	3.162	ng	98
74) Di-n-butylphthalate	18.362	149	13319	3.784	ng	# 1
75) Fluoranthene	19.445	202	249463	2.842	ng	91
78) Pyrene	19.809	202	216630	2.259	ng	98
80) Butylbenzylphthalate	20.686	149	4546	4.936	ng	# 1
84) Bis(2-ethylhexyl)phtha...	21.480	149	29905	4.042	ng	# 55
85) Di-n-octyl phthalate	22.427	149	16340	6.759	ng	# 75

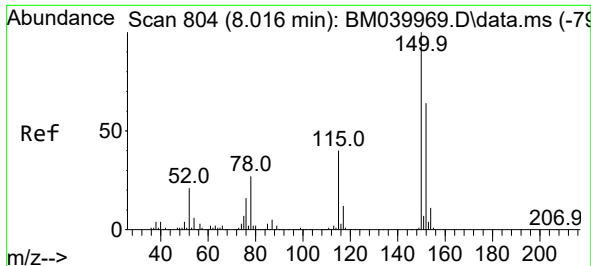
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM052323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 24 01:06:13 2023
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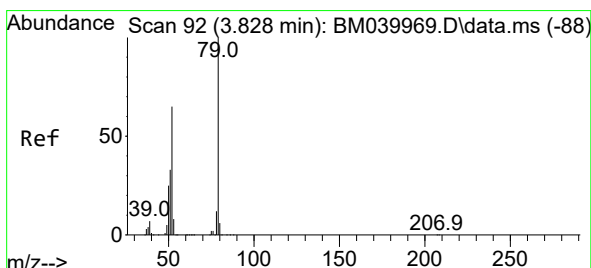
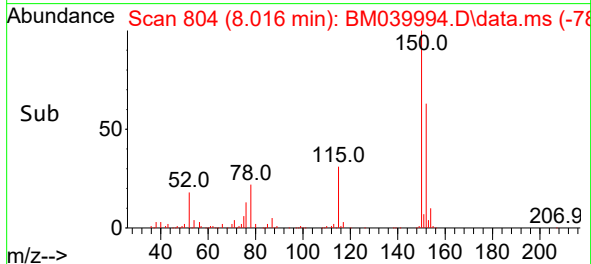
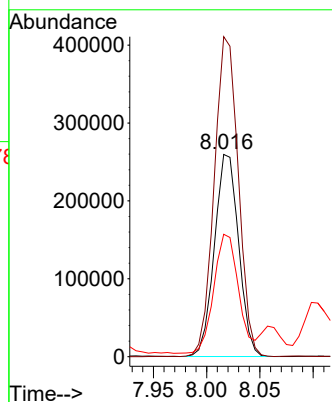
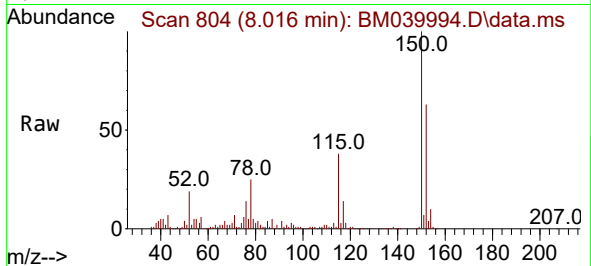




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.016 min Scan# 80
Delta R.T. 0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

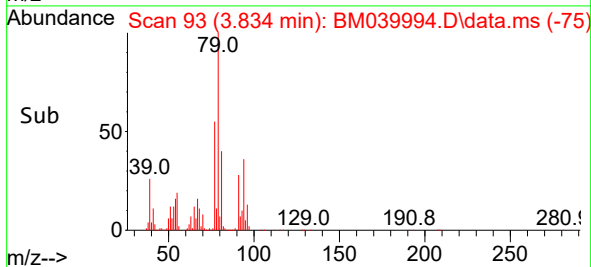
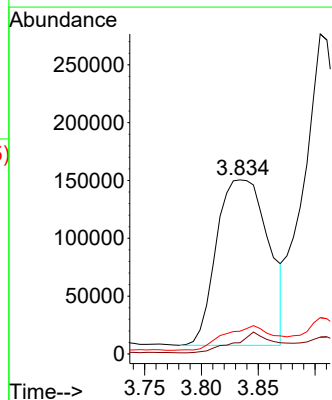
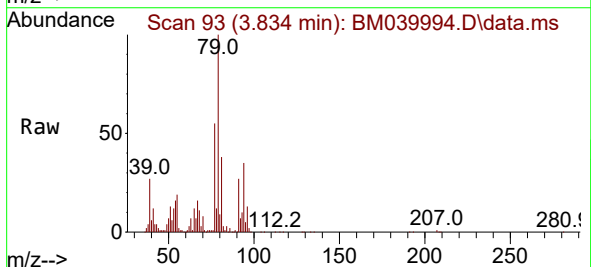
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

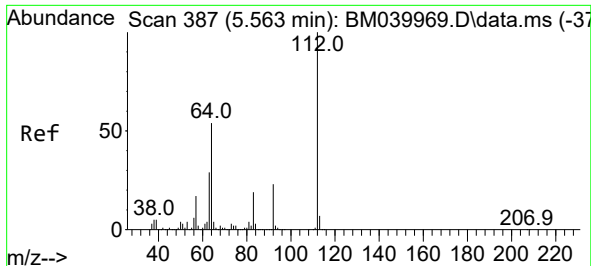
Tgt Ion:152 Resp: 408982
Ion Ratio Lower Upper
152 100
150 158.2 125.5 188.3
115 60.5 50.2 75.2



#3
Pyridine
Concen: 15.415 ng
RT: 3.834 min Scan# 93
Delta R.T. 0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion: 79 Resp: 455692
Ion Ratio Lower Upper
79 100
52 6.5 52.0 78.0#
51 13.1 26.5 39.7#

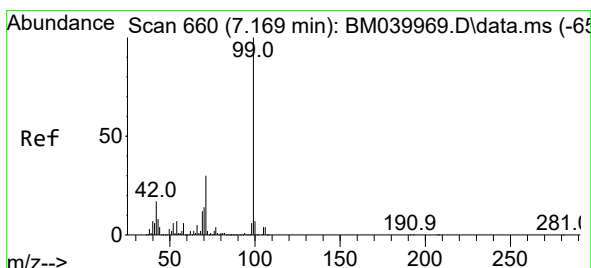
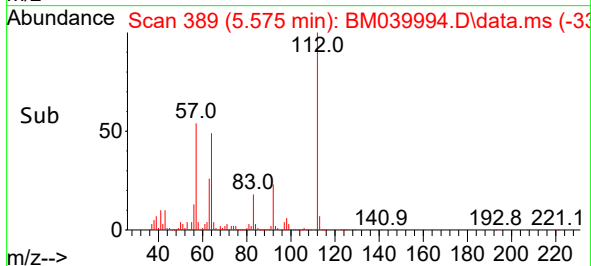
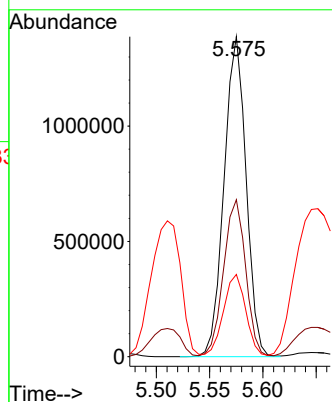
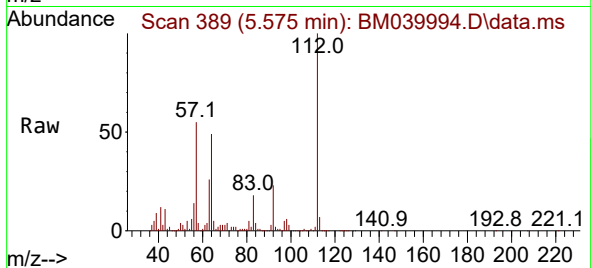




#5
2-Fluorophenol
Concen: 74.616 ng
RT: 5.575 min Scan# 387
Delta R.T. 0.012 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

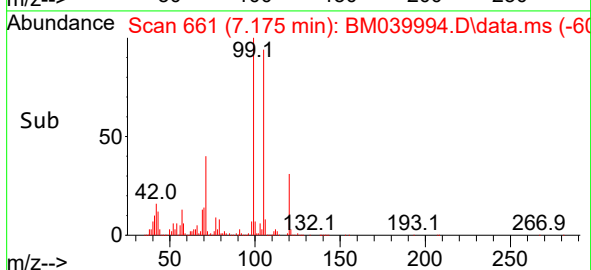
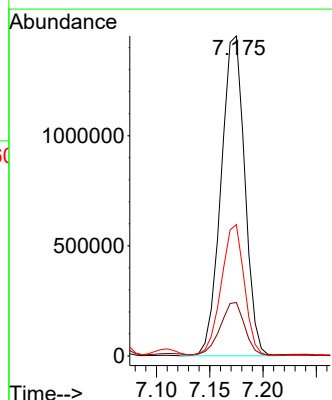
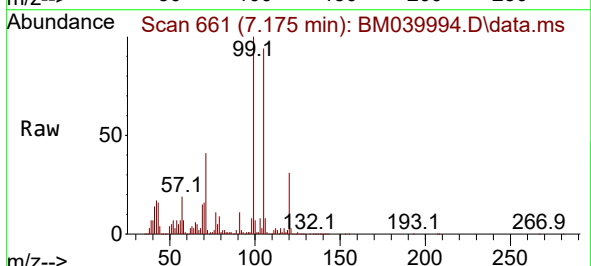
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

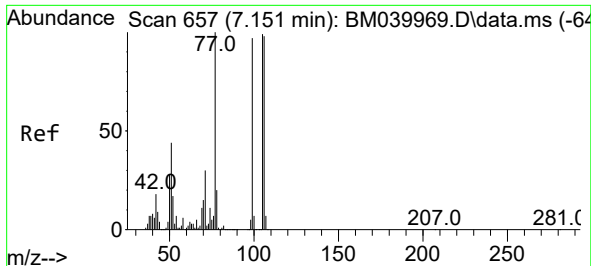
Tgt Ion:112 Resp: 1989436
Ion Ratio Lower Upper
112 100
64 49.0 43.0 64.4
63 25.7 22.9 34.3



#7
Phenol-d6
Concen: 64.538 ng
RT: 7.175 min Scan# 661
Delta R.T. 0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion: 99 Resp: 2244665
Ion Ratio Lower Upper
99 100
42 16.7 13.8 20.6
71 41.0 24.4 36.6#

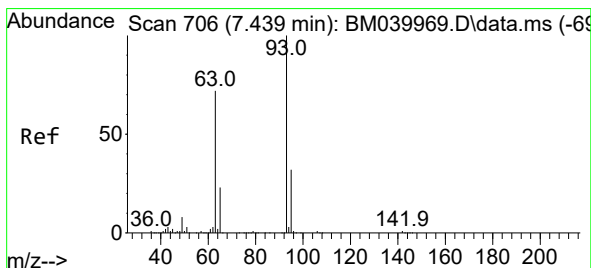
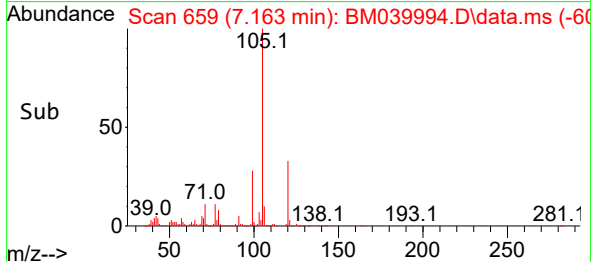
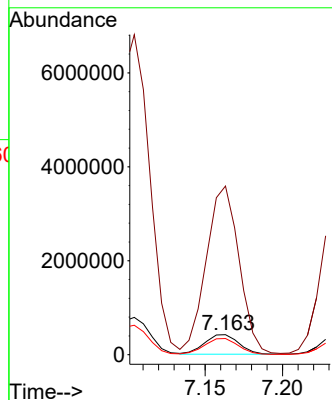
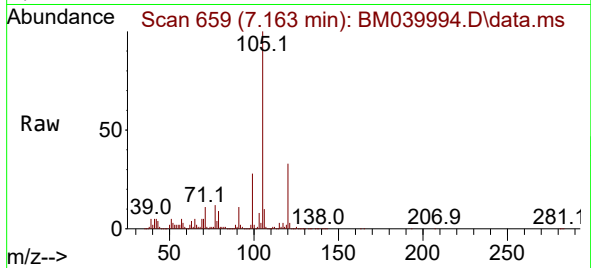




#9
Benzaldehyde
Concen: 38.607 ng
RT: 7.163 min Scan# 610
Delta R.T. 0.012 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

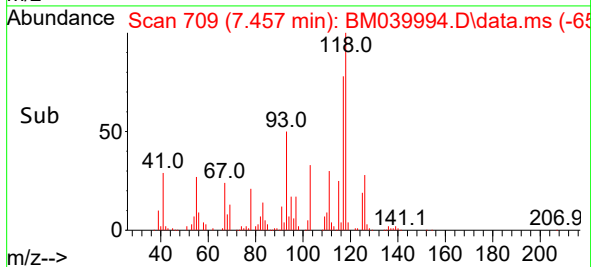
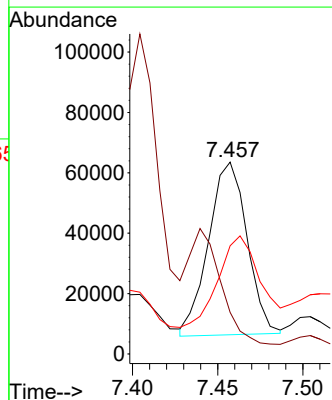
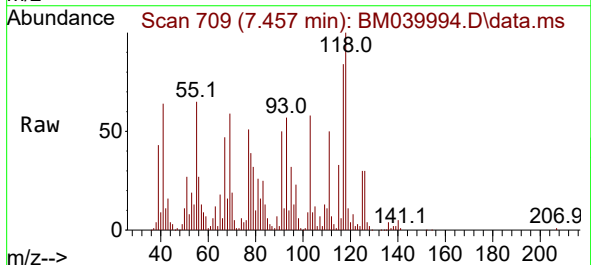
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

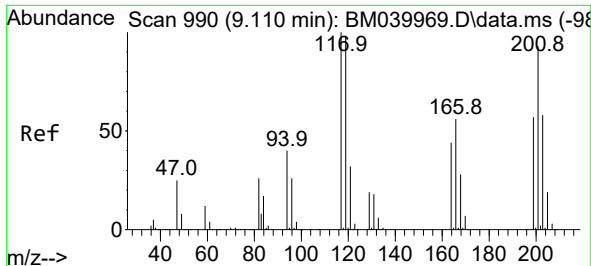
Tgt Ion: 77 Resp: 649117
Ion Ratio Lower Upper
77 100
105 839.5 79.2 119.2#
106 80.4 77.6 117.6



#11
bis(2-Chloroethyl)ether
Concen: 3.138 ng
RT: 7.457 min Scan# 709
Delta R.T. 0.018 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion: 93 Resp: 90109
Ion Ratio Lower Upper
93 100
63 21.7 52.0 92.0#
95 56.4 12.2 52.2#

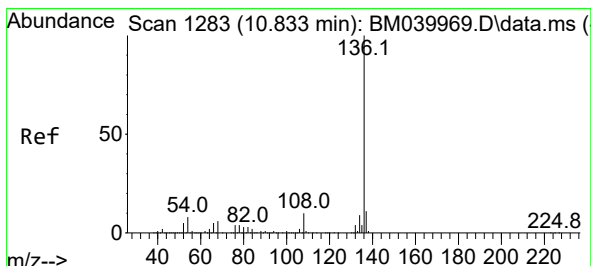
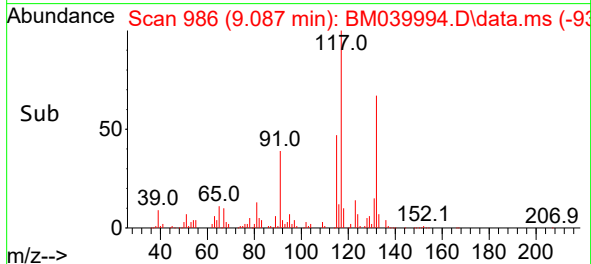
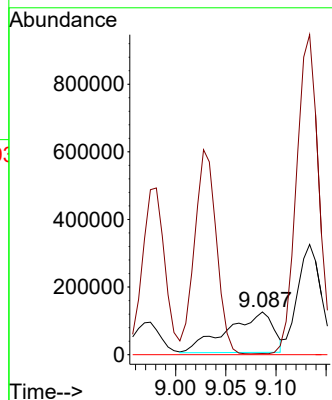
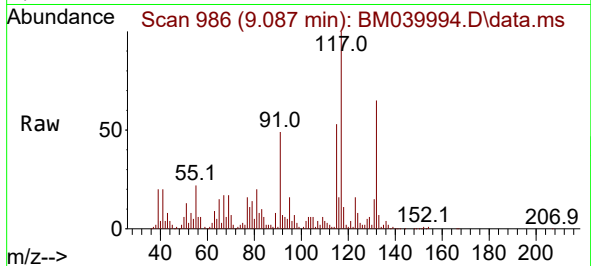




#18
Hexachloroethane
Concen: 34.982 ng
RT: 9.087 min Scan# 91
Delta R.T. -0.023 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

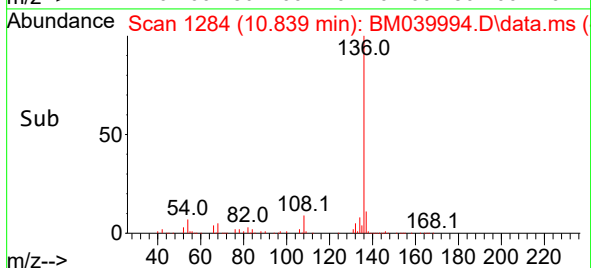
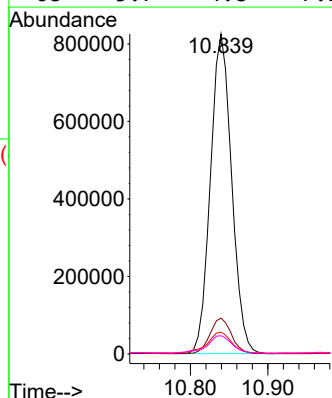
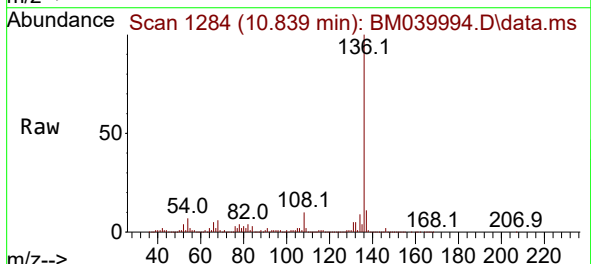
Instrument :
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ClientSampleId :
S-H4(BHF)

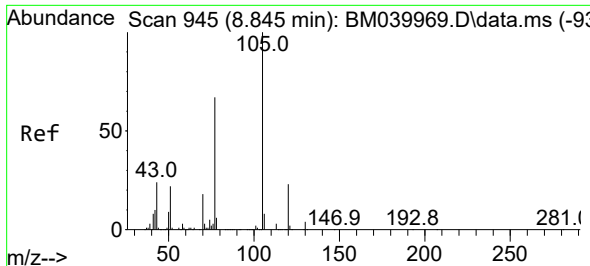
Tgt Ion:117 Resp: 383497
Ion Ratio Lower Upper
117 100
119 2.5 78.8 118.2#
201 0.0 74.3 111.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.839 min Scan# 1284
Delta R.T. 0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion:136 Resp: 1569180
Ion Ratio Lower Upper
136 100
137 11.2 8.7 13.1
54 6.8 6.1 9.1
68 5.7 4.8 7.2

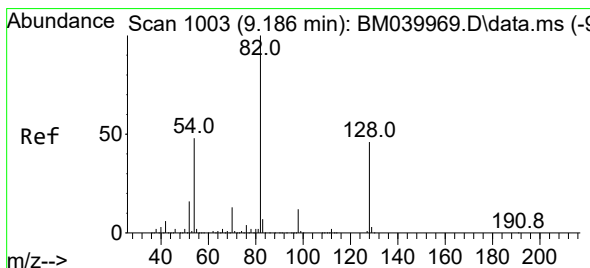
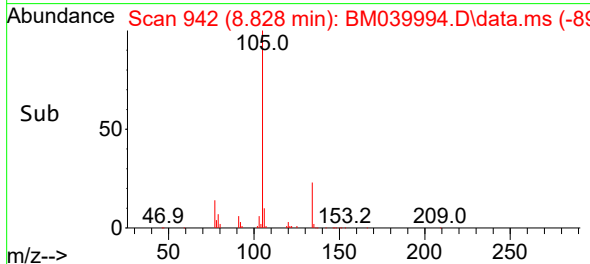
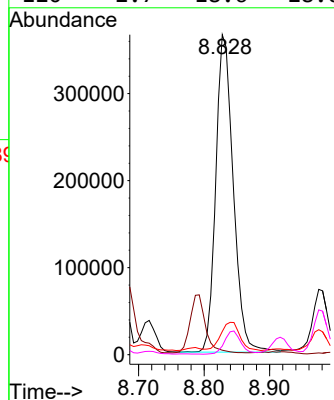
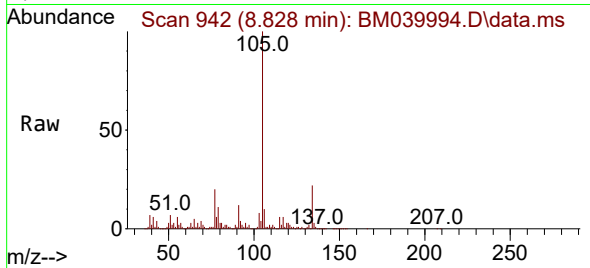




#22
Acetophenone
Concen: 15.974 ng
RT: 8.828 min Scan# 945
Delta R.T. -0.018 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

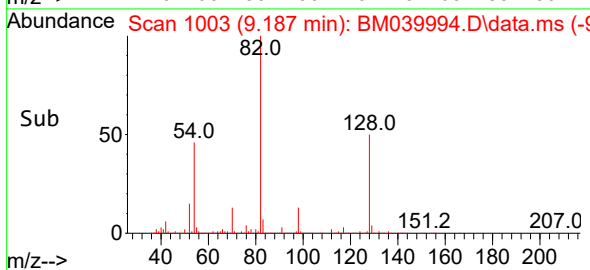
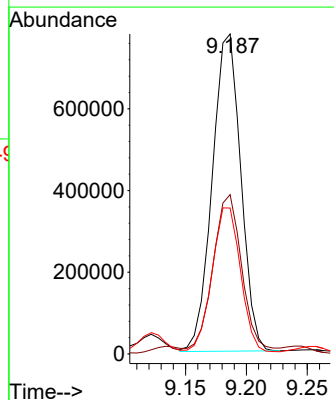
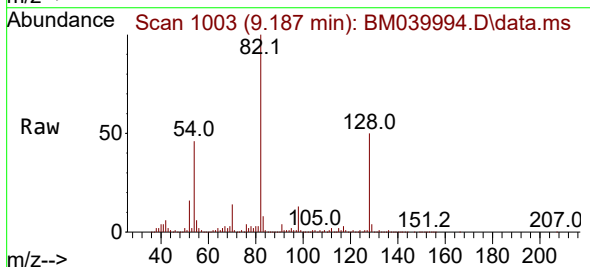
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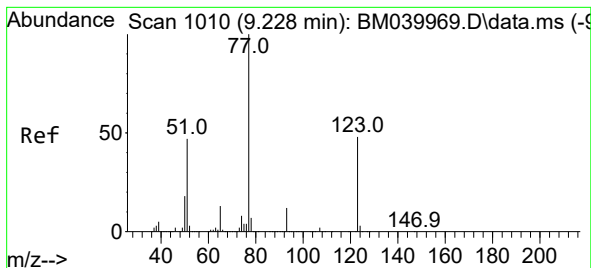
Tgt Ion:105 Resp: 676569
Ion Ratio Lower Upper
105 100
71 1.4 2.2 3.4#
51 7.2 19.8 29.8#
120 2.7 18.6 28.0#



#23
Nitrobenzene-d5
Concen: 43.497 ng
RT: 9.187 min Scan# 1003
Delta R.T. 0.001 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion: 82 Resp: 1264911
Ion Ratio Lower Upper
82 100
128 49.8 36.5 54.7
54 45.6 38.3 57.5





#24

Nitrobenzene

Concen: 5.371 ng

RT: 9.239 min Scan# 1010

Delta R.T. 0.012 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

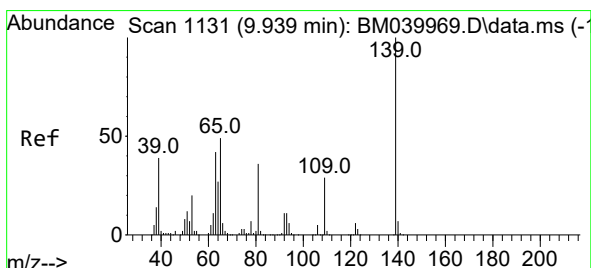
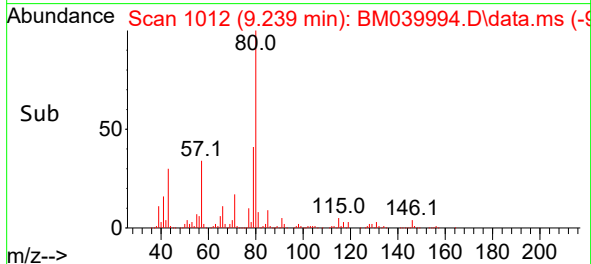
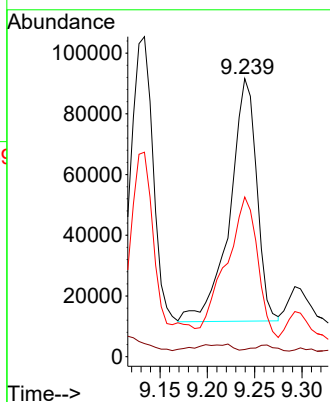
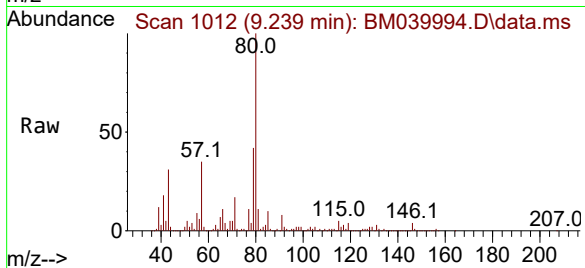
Tgt Ion: 77 Resp: 158445

Ion Ratio Lower Upper

77 100

123 2.6 38.1 57.1#

65 57.4 10.1 15.1#



#26

2-Nitrophenol

Concen: 2.911 ng

RT: 9.857 min Scan# 1117

Delta R.T. -0.082 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

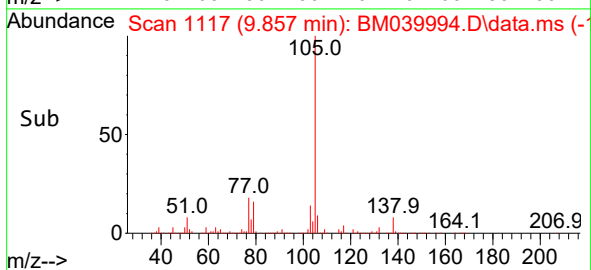
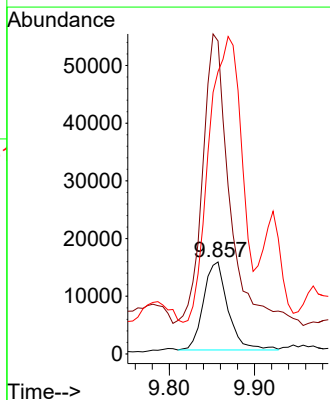
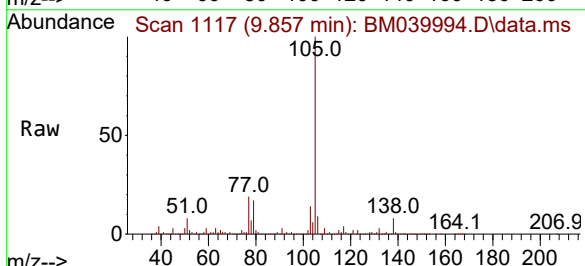
Tgt Ion:139 Resp: 30381

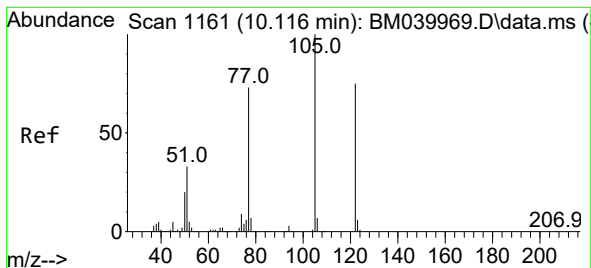
Ion Ratio Lower Upper

139 100

109 340.1 23.4 35.2#

65 306.9 39.4 59.2#





#32

Benzoic acid

Concen: 7.924 ng

RT: 10.122 min Scan# 1161

Delta R.T. 0.006 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

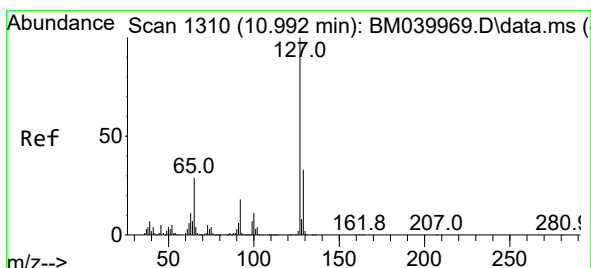
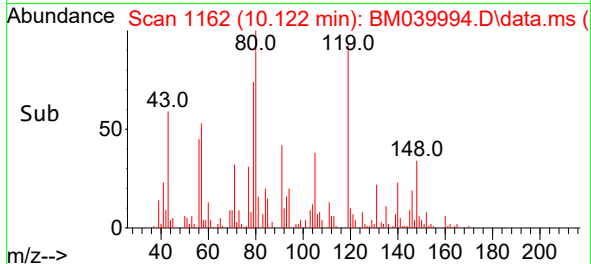
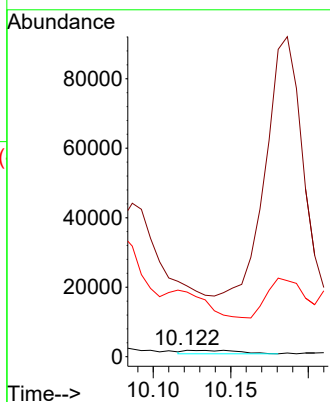
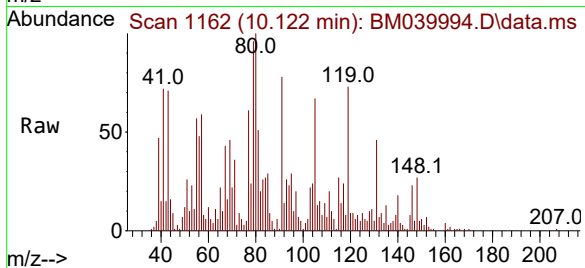
Tgt Ion:122 Resp: 2327

Ion Ratio Lower Upper

122 100

105 1112.2 106.0 146.0#

77 1016.2 74.7 114.7#



#33

4-Chloroaniline

Concen: 162.912 ng

RT: 10.904 min Scan# 1295

Delta R.T. -0.088 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Tgt Ion:127 Resp: 5943640

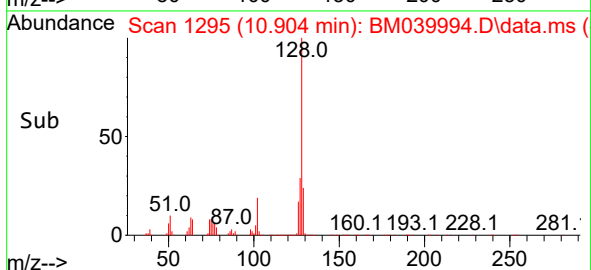
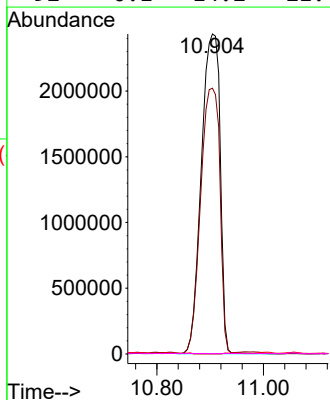
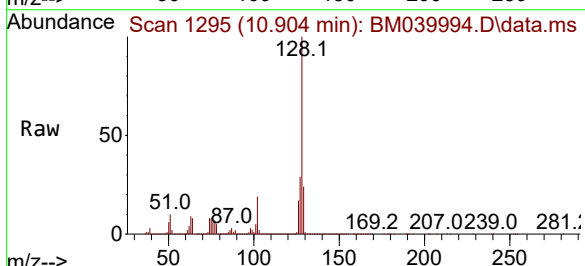
Ion Ratio Lower Upper

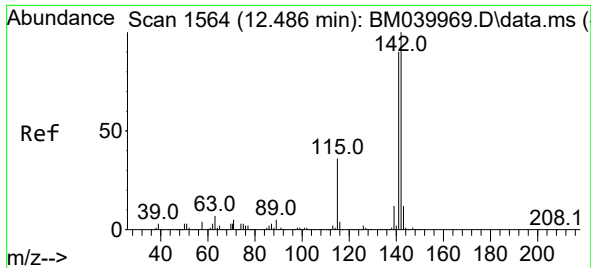
127 100

129 83.1 26.2 39.2#

65 0.0 23.1 34.7#

92 0.1 14.2 21.4#

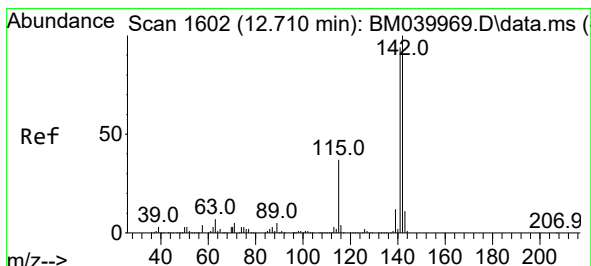
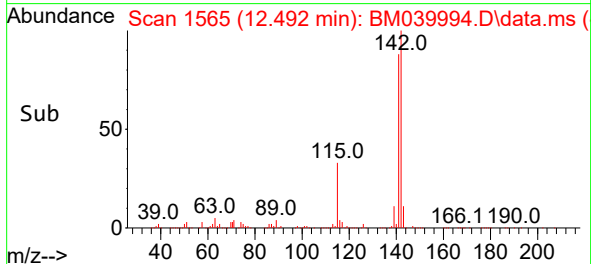
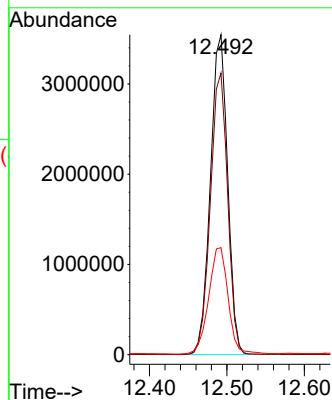
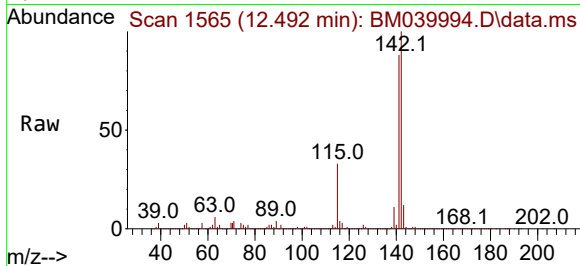




#37
2-Methylnaphthalene
Concen: 94.585 ng
RT: 12.492 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

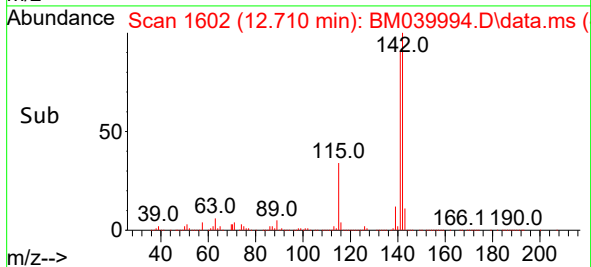
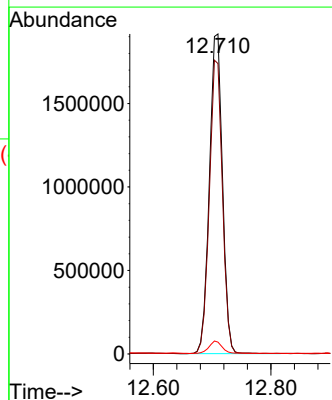
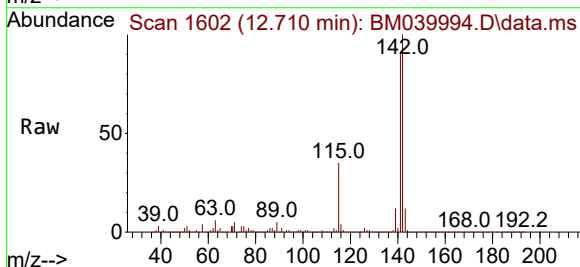
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

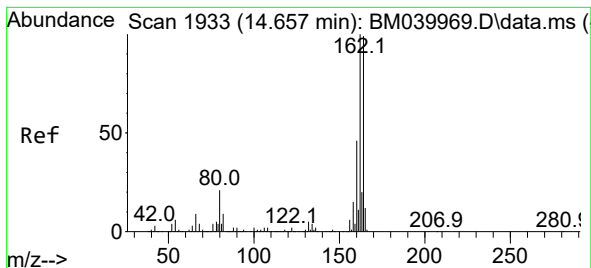
Tgt Ion:142 Resp: 5458478
Ion Ratio Lower Upper
142 100
141 88.1 71.6 107.4
115 33.5 28.8 43.2



#38
1-Methylnaphthalene
Concen: 54.828 ng
RT: 12.710 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion:142 Resp: 2961883
Ion Ratio Lower Upper
142 100
141 90.7 75.1 112.7
116 3.7 3.2 4.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.651 min Scan# 1932

Delta R.T. -0.006 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

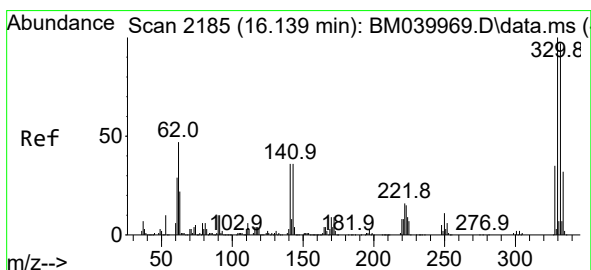
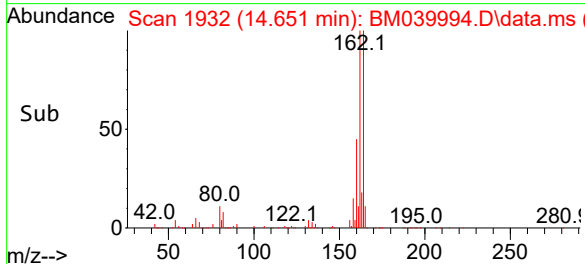
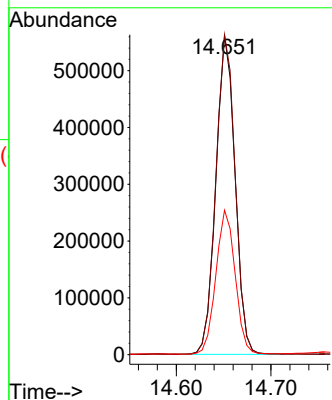
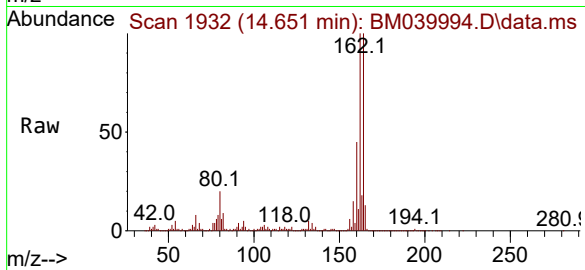
Tgt Ion:164 Resp: 789163

Ion Ratio Lower Upper

164 100

162 100.2 80.6 120.8

160 45.2 36.7 55.1



#42

2,4,6-Tribromophenol

Concen: 74.254 ng

RT: 16.139 min Scan# 2185

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

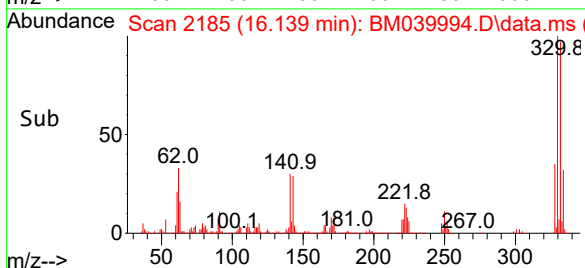
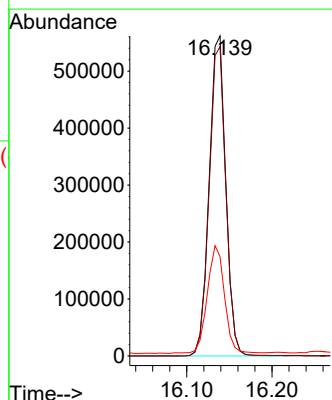
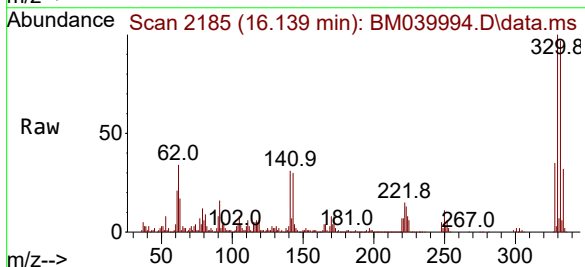
Tgt Ion:330 Resp: 760568

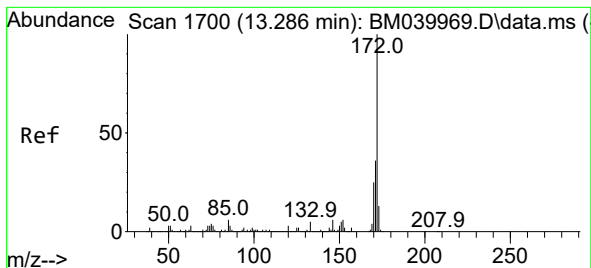
Ion Ratio Lower Upper

330 100

332 96.9 77.4 116.2

141 34.9 31.6 47.4





#45

2-Fluorobiphenyl

Concen: 43.313 ng

RT: 13.280 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

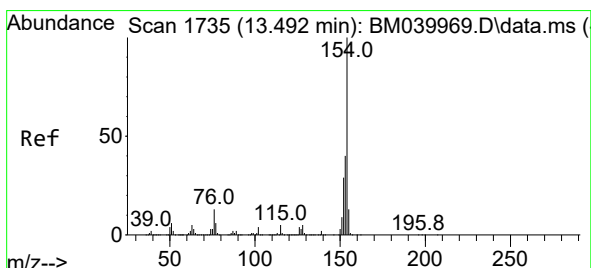
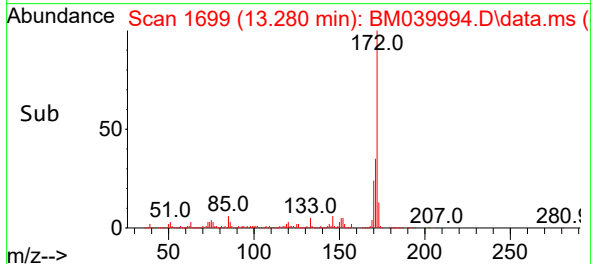
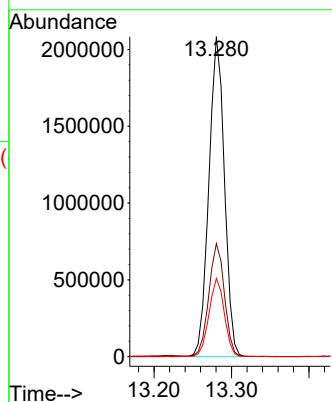
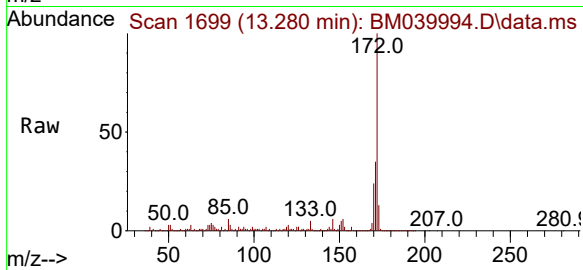
Tgt Ion:172 Resp: 2897944

Ion Ratio Lower Upper

172 100

171 35.4 28.8 43.2

170 24.5 19.6 29.4



#46

1,1'-Biphenyl

Concen: 5.256 ng

RT: 13.492 min Scan# 1735

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

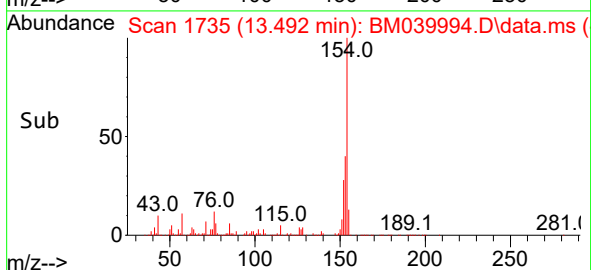
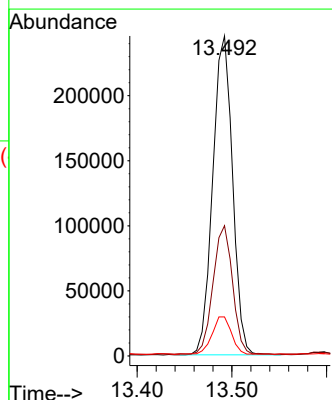
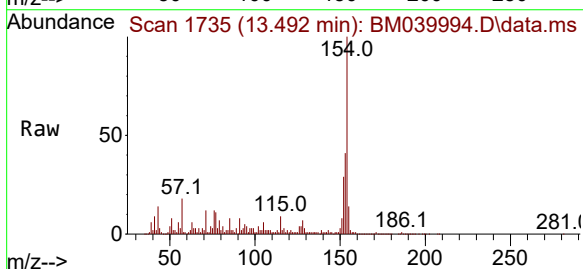
Tgt Ion:154 Resp: 355124

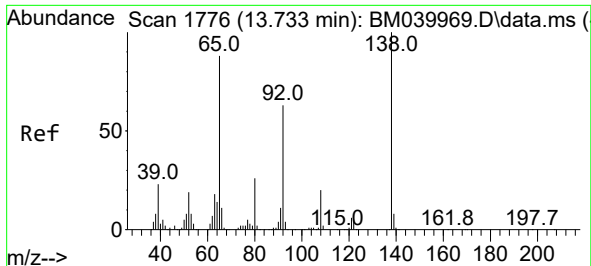
Ion Ratio Lower Upper

154 100

153 40.7 20.4 60.4

76 12.2 0.0 33.1

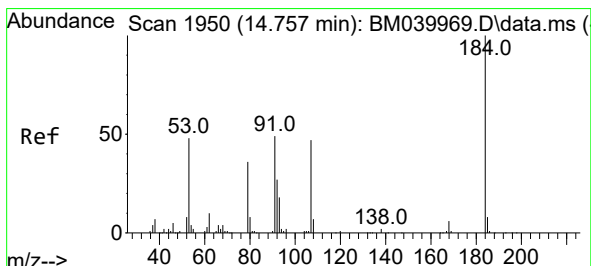
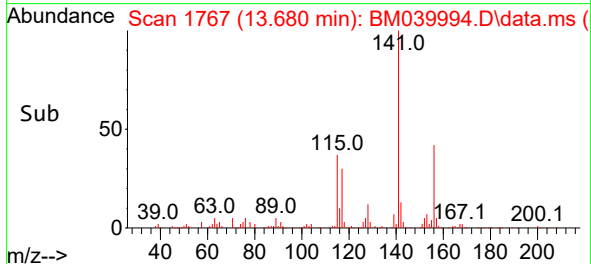
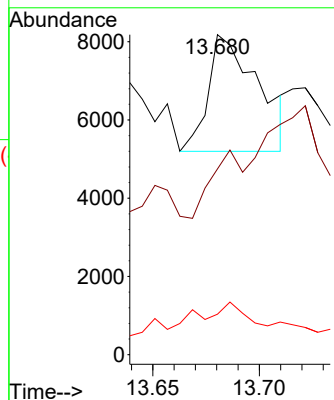
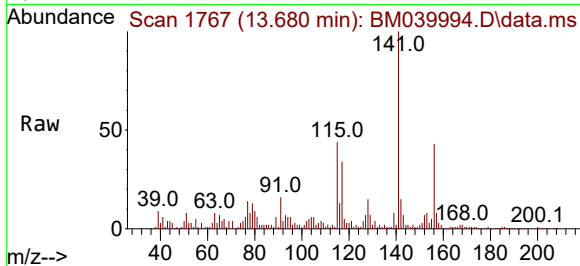




#48
2-Nitroaniline
Concen: 2.896 ng
RT: 13.680 min Scan# 1767
Delta R.T. -0.053 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

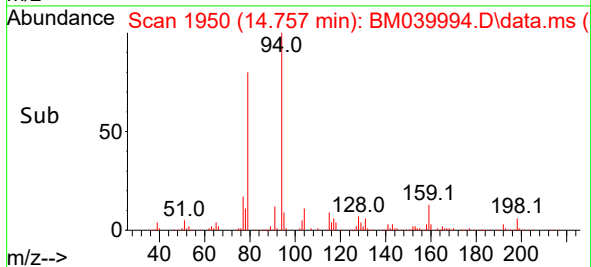
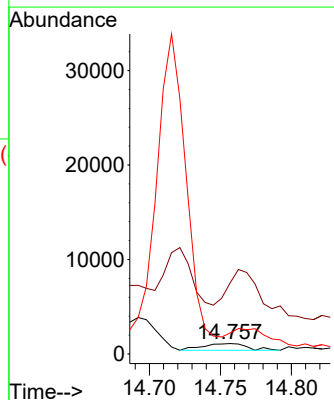
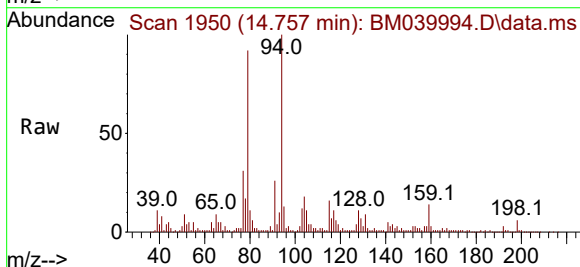
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

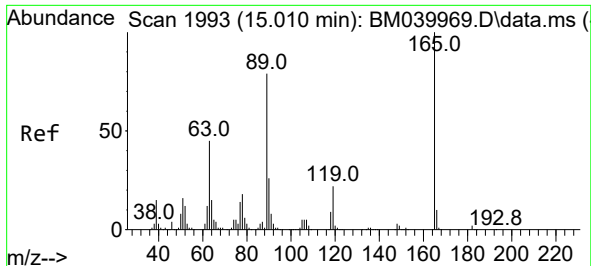
Tgt Ion: 65 Resp: 4845
Ion Ratio Lower Upper
65 100
92 58.1 57.0 85.6
138 12.7 91.1 136.7#



#54
2,4-Dinitrophenol
Concen: 8.262 ng
RT: 14.757 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion:184 Resp: 1554
Ion Ratio Lower Upper
184 100
63 680.7 53.0 79.4#
154 201.0 54.4 81.6#





#57

2,4-Dinitrotoluene

Concen: 6.289 ng

RT: 15.010 min Scan# 1993

Delta R.T. -0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

Tgt Ion:165 Resp: 45152

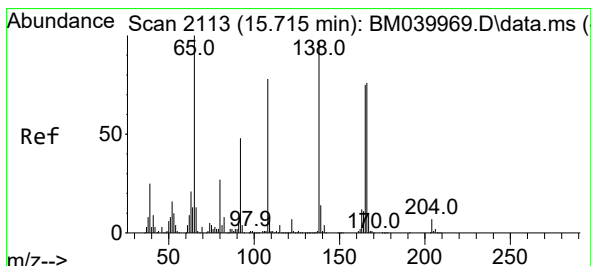
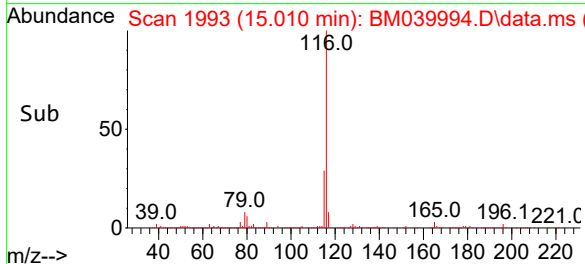
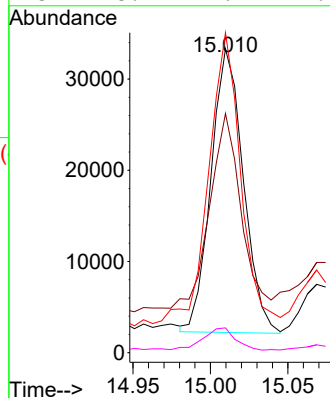
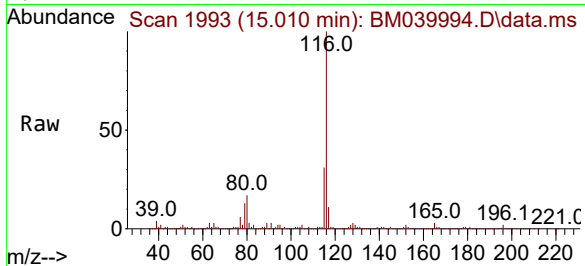
Ion Ratio Lower Upper

165 100

63 78.7 36.2 54.2#

89 105.3 63.4 95.0#

182 8.2 1.9 2.9#



#62

4-Nitroaniline

Concen: 3.220 ng

RT: 15.645 min Scan# 2101

Delta R.T. -0.071 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

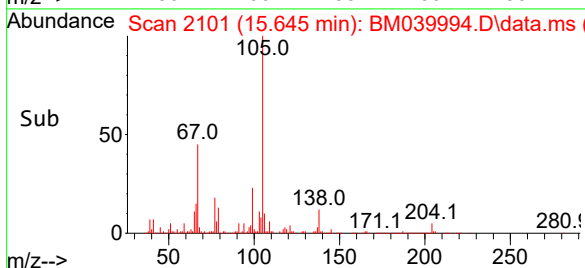
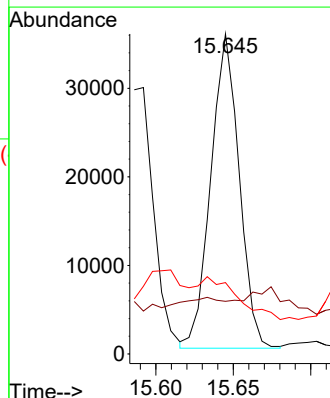
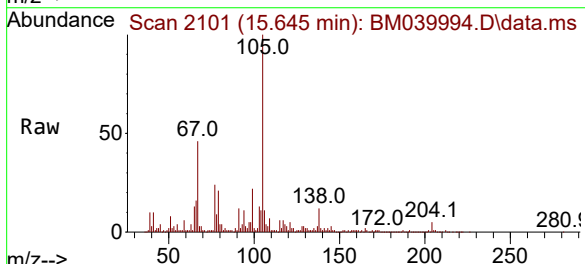
Tgt Ion:138 Resp: 45151

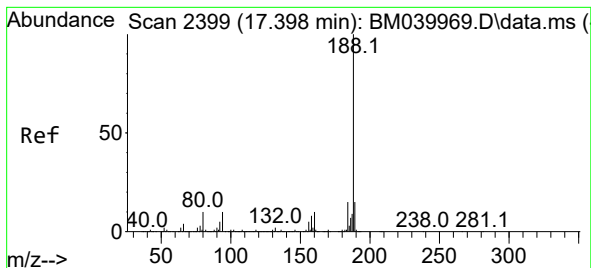
Ion Ratio Lower Upper

138 100

92 16.4 29.1 69.1#

108 22.3 60.0 100.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.398 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

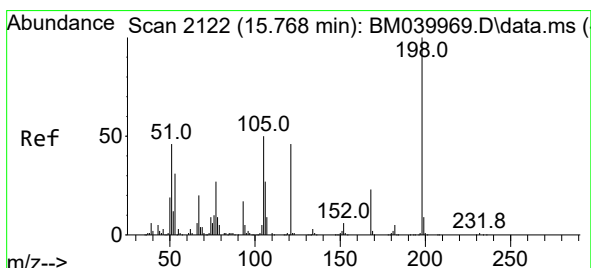
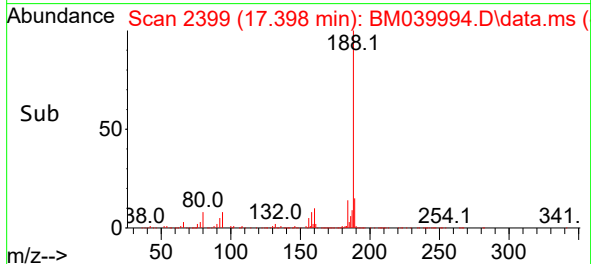
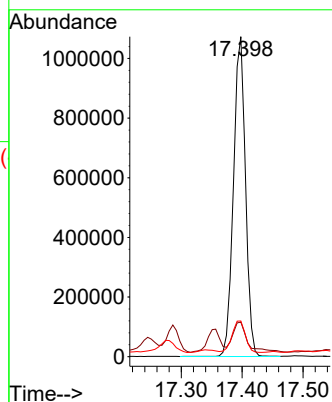
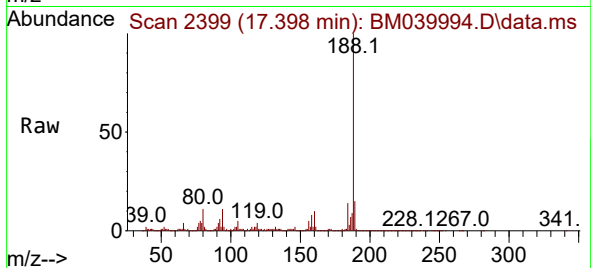
Tgt Ion:188 Resp: 1472413

Ion Ratio Lower Upper

188 100

94 10.8 7.8 11.8

80 11.1 8.2 12.4



#65

4,6-Dinitro-2-methylphenol

Concen: 7.898 ng

RT: 15.751 min Scan# 2119

Delta R.T. -0.017 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

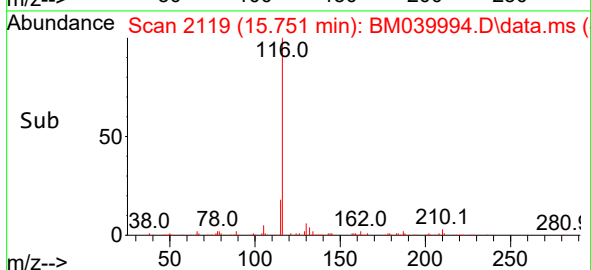
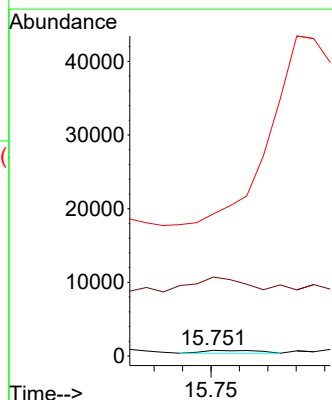
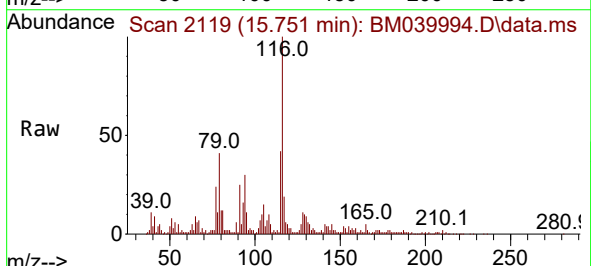
Tgt Ion:198 Resp: 544

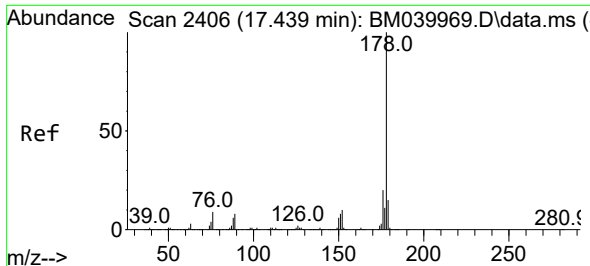
Ion Ratio Lower Upper

198 100

51 1395.6 29.9 69.9#

105 2514.7 30.4 70.4#

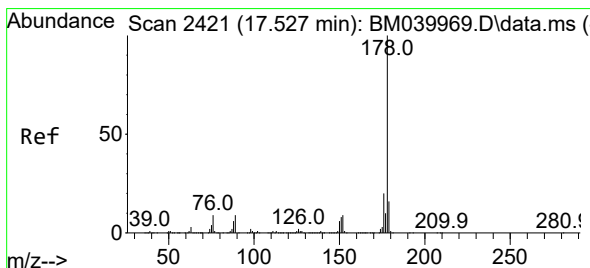
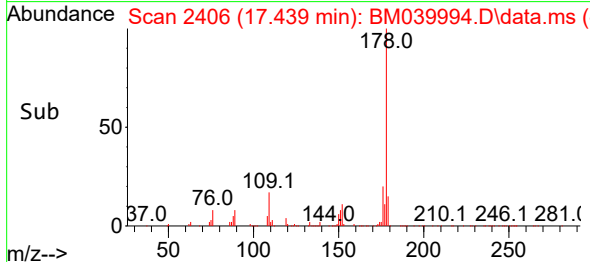
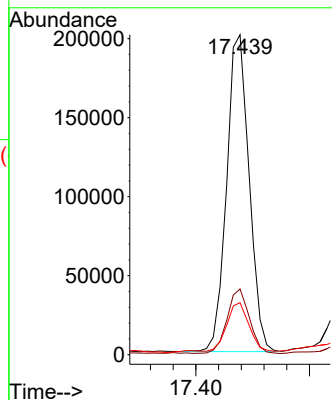
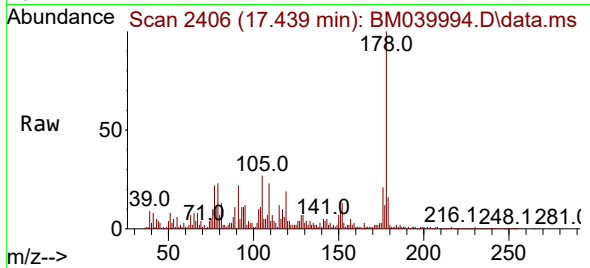




#71
Phenanthrene
Concen: 3.133 ng
RT: 17.439 min Scan# 2406
Delta R.T. 0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

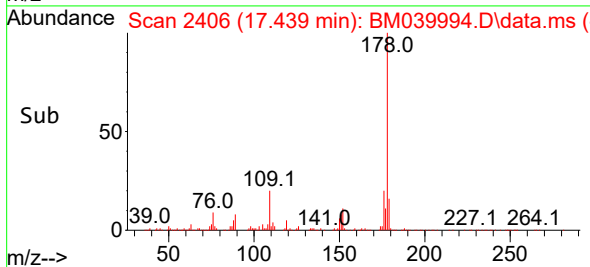
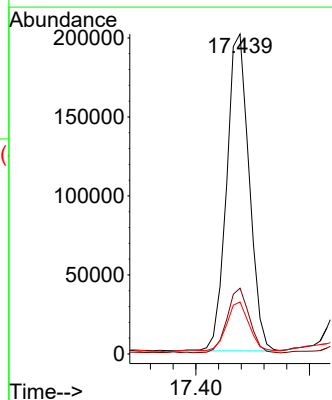
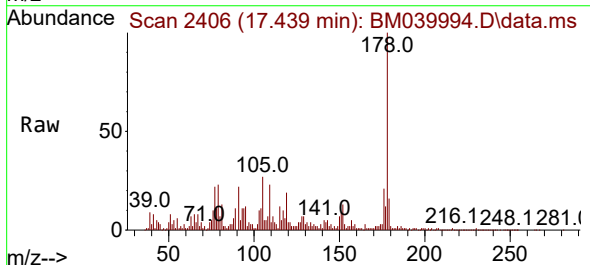
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

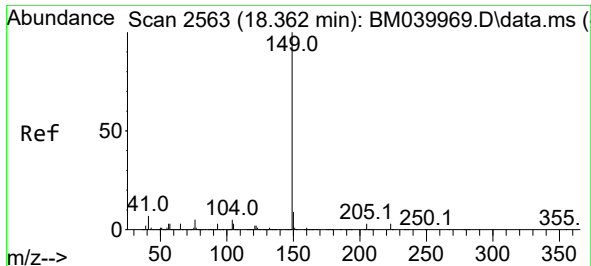
Tgt Ion:178 Resp: 275949
Ion Ratio Lower Upper
178 100
176 20.5 16.2 24.2
179 16.3 12.2 18.4



#72
Anthracene
Concen: 3.162 ng
RT: 17.439 min Scan# 2406
Delta R.T. -0.088 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion:178 Resp: 275949
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.6
179 16.3 12.5 18.7

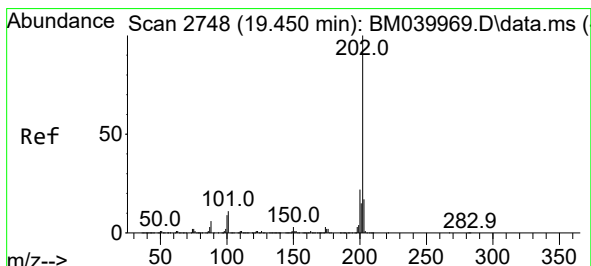
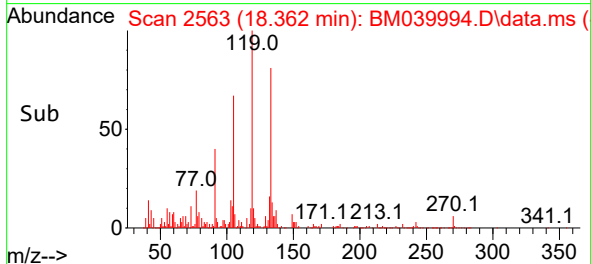
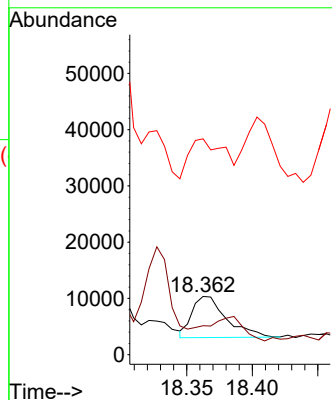
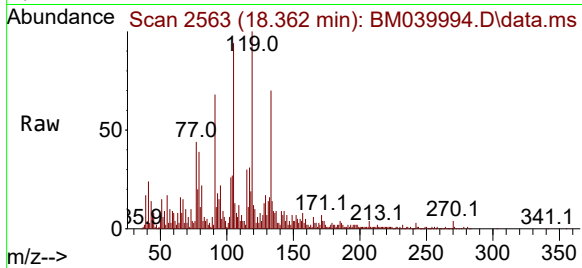




#74
Di-n-butylphthalate
Concen: 3.784 ng
RT: 18.362 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

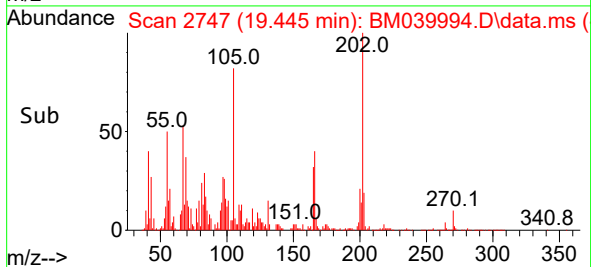
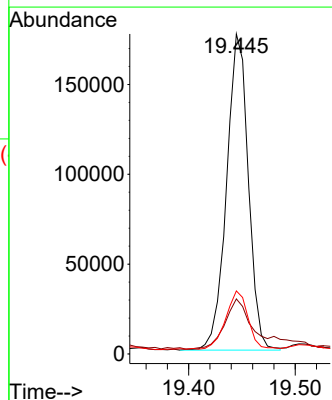
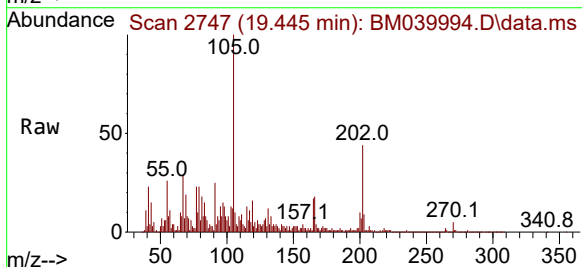
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

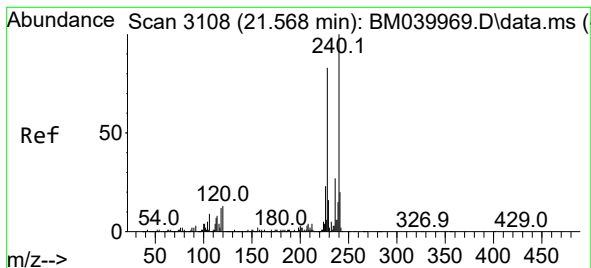
Tgt Ion:149 Resp: 13319
Ion Ratio Lower Upper
149 100
150 49.8 7.4 11.2#
104 370.6 4.2 6.2#



#75
Fluoranthene
Concen: 2.842 ng
RT: 19.445 min Scan# 2747
Delta R.T. -0.005 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion:202 Resp: 249463
Ion Ratio Lower Upper
202 100
101 17.2 0.0 31.3
203 19.7 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.568 min Scan# 3108

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

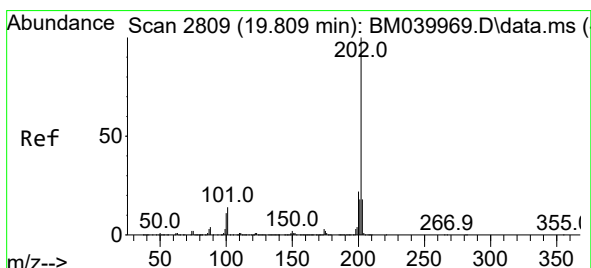
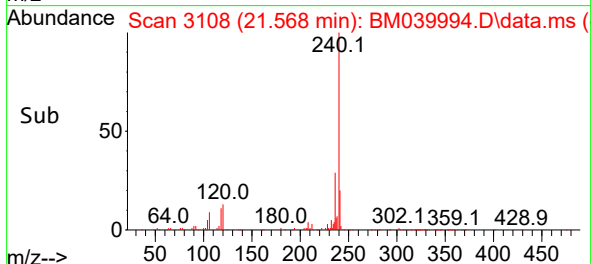
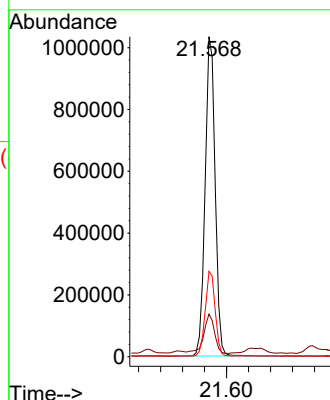
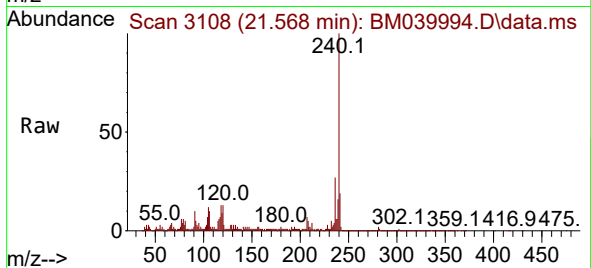
Tgt Ion:240 Resp: 1306668

Ion Ratio Lower Upper

240 100

120 13.3 10.1 15.1

236 26.7 21.3 31.9



#78

Pyrene

Concen: 2.259 ng

RT: 19.809 min Scan# 2809

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

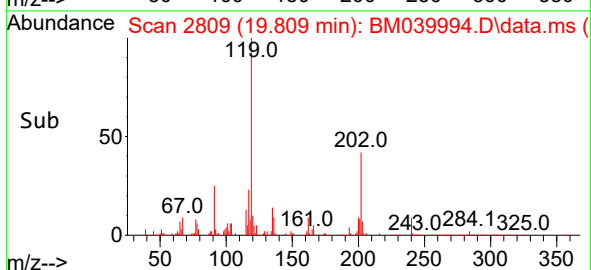
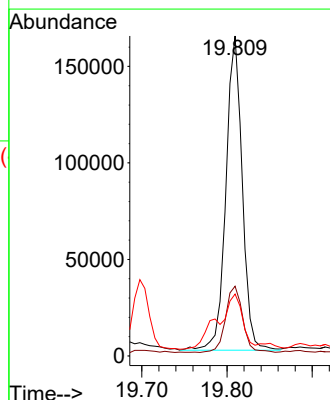
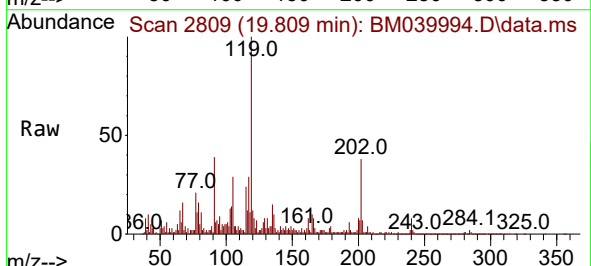
Tgt Ion:202 Resp: 216630

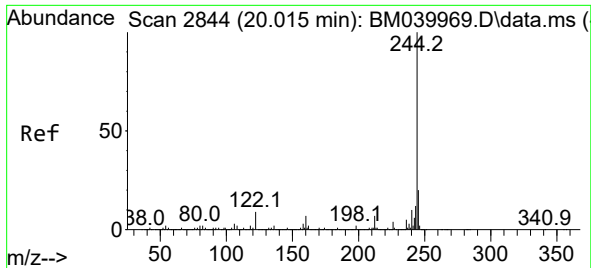
Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

203 19.3 14.1 21.1

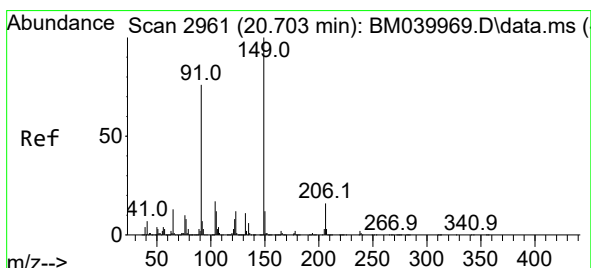
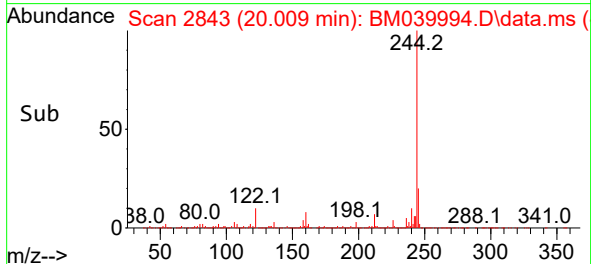
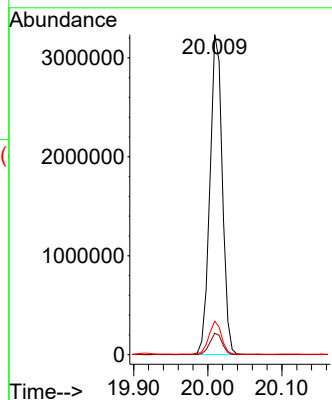
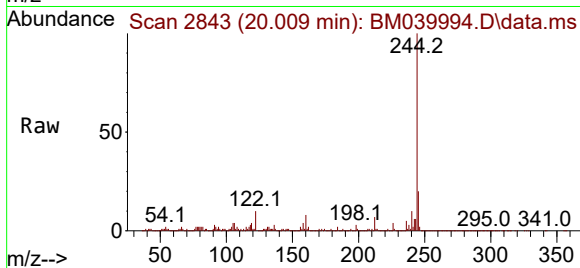




#79
 Terphenyl-d14
 Concen: 44.673 ng
 RT: 20.009 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM039994.D
 Acq: 24 May 2023 21:15

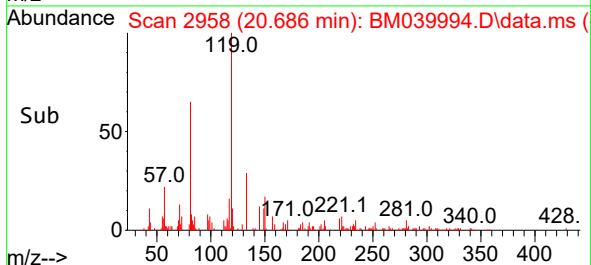
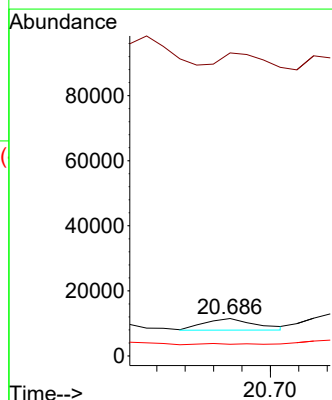
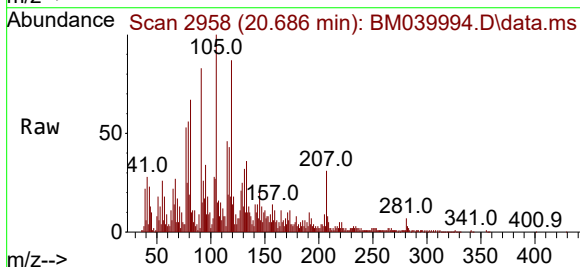
Instrument :
 BNA_M
 ClientSampleId :
 S-H4(BHF)

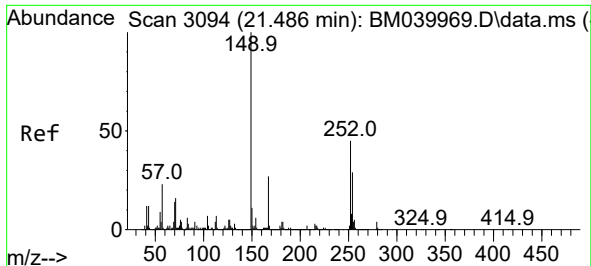
Tgt Ion:244 Resp: 3759453
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 10.4 7.1 10.7



#80
 Butylbenzylphthalate
 Concen: 4.936 ng
 RT: 20.686 min Scan# 2958
 Delta R.T. -0.017 min
 Lab File: BM039994.D
 Acq: 24 May 2023 21:15

Tgt Ion:149 Resp: 4546
 Ion Ratio Lower Upper
 149 100
 91 808.3 61.0 91.4#
 206 31.3 12.7 19.1#

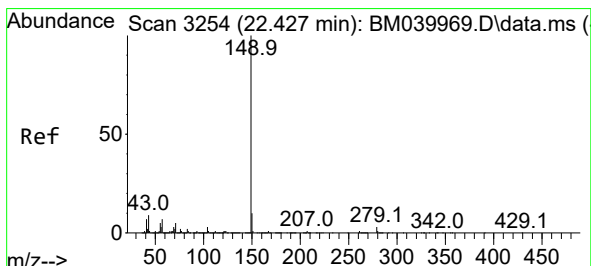
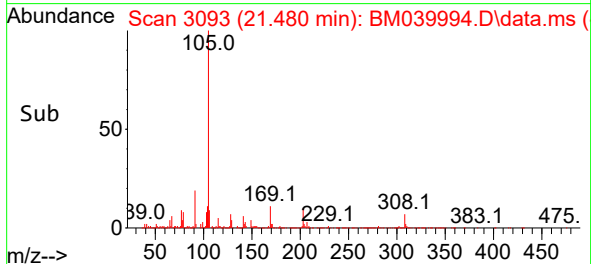
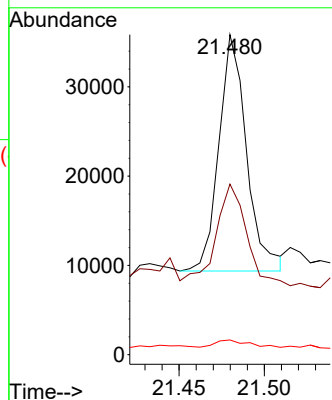
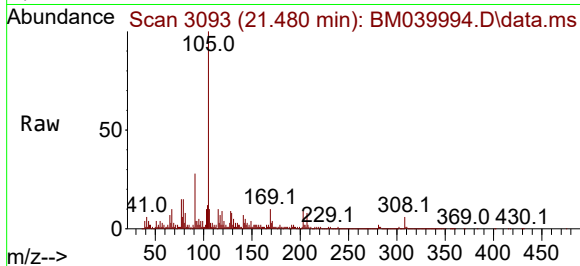




#84
Bis(2-ethylhexyl)phthalate
Concen: 4.042 ng
RT: 21.480 min Scan# 3094
Delta R.T. -0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

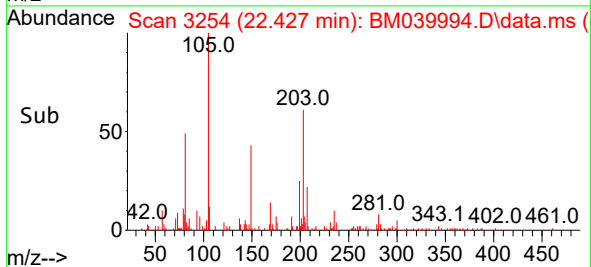
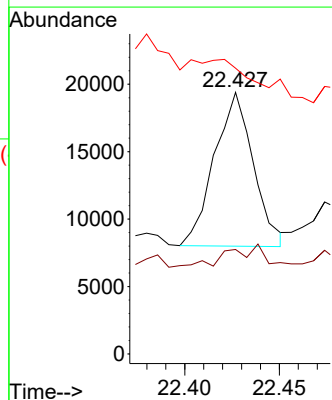
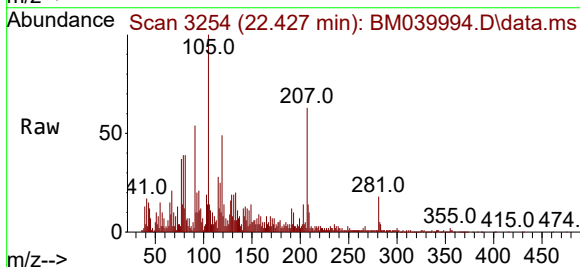
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

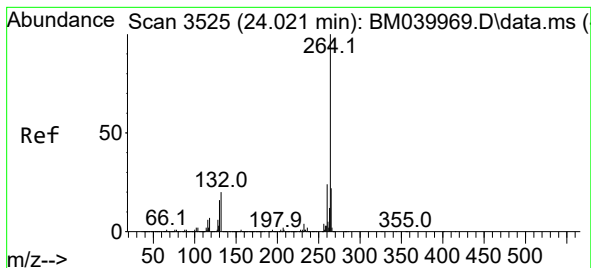
Tgt Ion:149 Resp: 29905
Ion Ratio Lower Upper
149 100
167 53.3 21.4 32.2#
279 4.6 3.3 4.9



#85
Di-n-octyl phthalate
Concen: 6.759 ng
RT: 22.427 min Scan# 3254
Delta R.T. -0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion:149 Resp: 16340
Ion Ratio Lower Upper
149 100
167 11.7 1.1 1.7#
43 0.0 7.4 11.0#





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.021 min Scan# 31
Delta R.T. 0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

Tgt Ion:264 Resp: 1521759

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	22.4	17.7	26.5

