

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122623\
 Data File : BF136736.D
 Acq On : 27 Dec 2023 00:09
 Operator : CG\JU
 Sample : 05862-10DL 50X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOLIDS-20231213-01DL

Quant Time: Dec 27 04:01:20 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

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

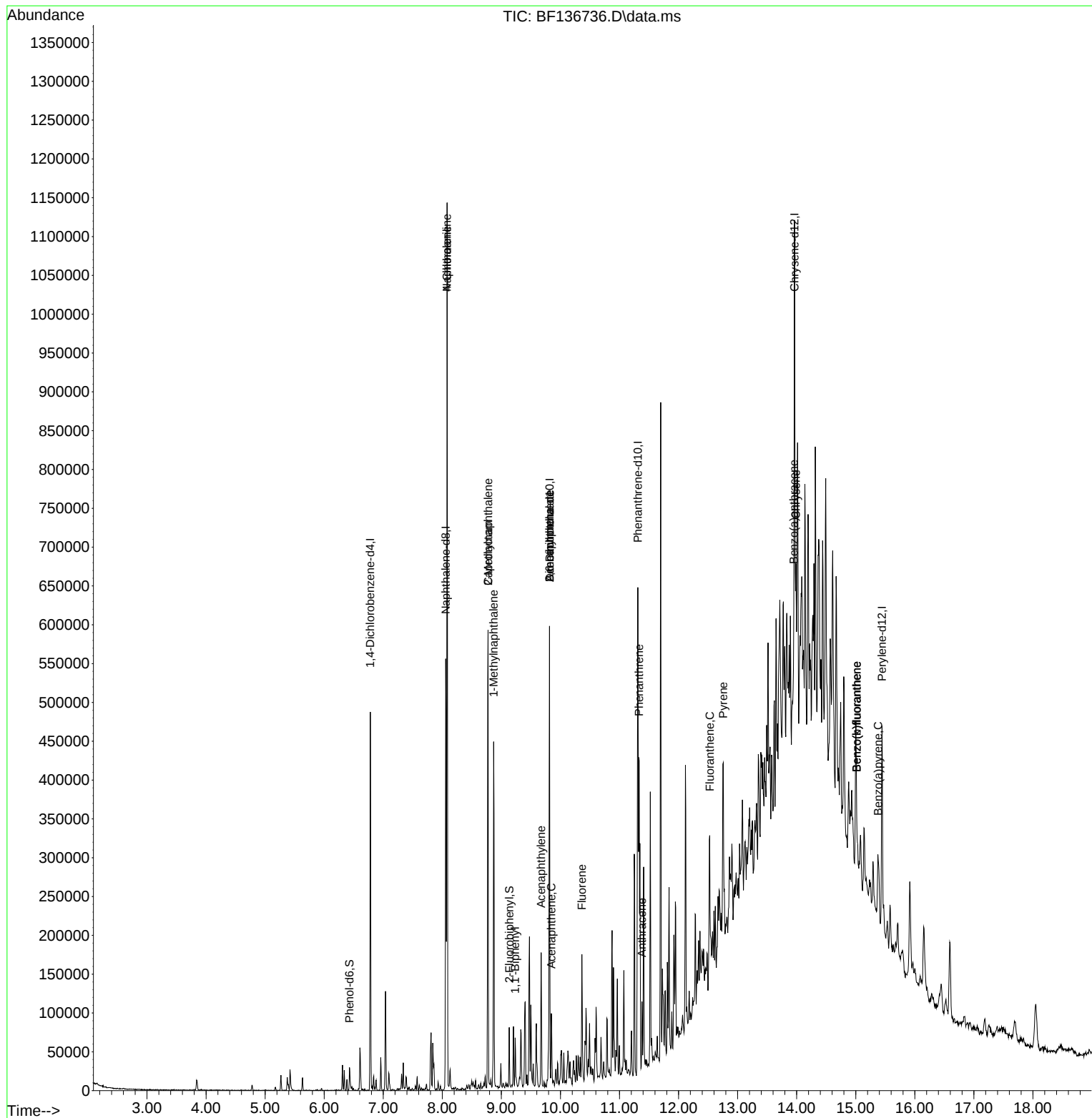
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	65988	20.000	ng	-0.01
21) Naphthalene-d8	8.057	136	240824	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	106932	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	163159	20.000	ng	0.00
76) Chrysene-d12	13.963	240	134469	20.000	ng	0.00
86) Perylene-d12	15.445	264	121781	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	8333	1.970	ng	0.00
7) Phenol-d6	6.428	99	12023	2.194	ng	-0.01
23) Nitrobenzene-d5	7.339	82	9077	1.929	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	2319	1.841	ng	-0.01
45) 2-Fluorobiphenyl	9.133	172	20336	2.558	ng	-0.02
79) Terphenyl-d14	12.898	244	17827	1.853	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.081	128	443157	33.496	ng	99
33) 4-Chloroaniline	8.081	127	56690	11.605	ng	# 31
35) Caprolactam	8.775	113	3355	2.877	ng	# 1
37) 2-Methylnaphthalene	8.775	142	157952	18.551	ng	100
38) 1-Methylnaphthalene	8.869	142	113289	13.562	ng	96
46) 1,1'-Biphenyl	9.233	154	19127	2.132	ng	97
49) Acenaphthylene	9.675	152	46273	4.438	ng	# 97
50) Dimethylphthalate	9.816	163	22008	2.818	ng	# 1
51) 2,6-Dinitrotoluene	9.816	165	15496	8.742	ng	# 30
52) Acenaphthene	9.845	154	17667	2.733	ng	99
58) Fluorene	10.363	166	43061	5.539	ng	96
71) Phenanthrene	11.333	178	149589	17.868	ng	97
72) Anthracene	11.380	178	29584	3.489	ng	98
75) Fluoranthene	12.527	202	48071	5.368	ng	85
78) Pyrene	12.757	202	80309	6.084	ng	96
81) Benzo(a)anthracene	13.951	228	33545	3.593	ng	# 87
83) Chrysene	13.986	228	31454	3.445	ng	# 93
88) Benzo(b)fluoranthene	15.015	252	19745	2.428	ng	# 63
89) Benzo(k)fluoranthene	15.015	252	19745	2.569	ng	# 62
90) Benzo(a)pyrene	15.380	252	15895	2.315	ng	# 73

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

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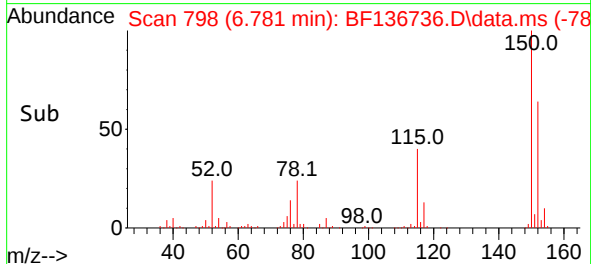
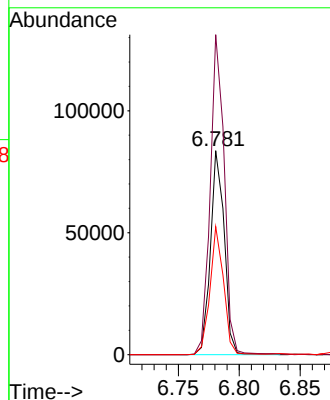
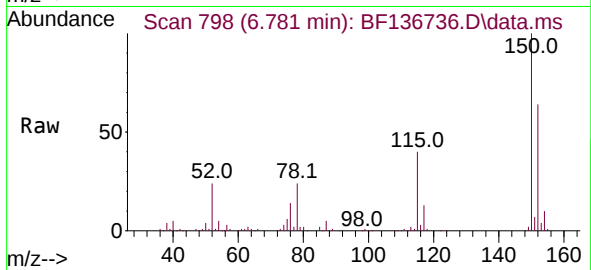




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF136736.D
Acq: 27 Dec 2023 00:09

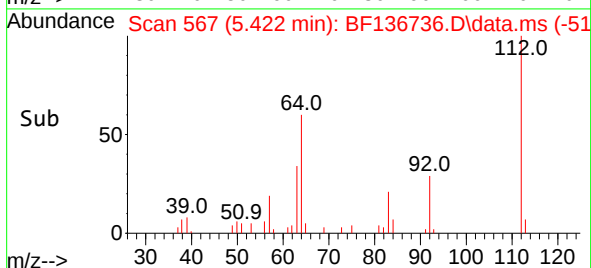
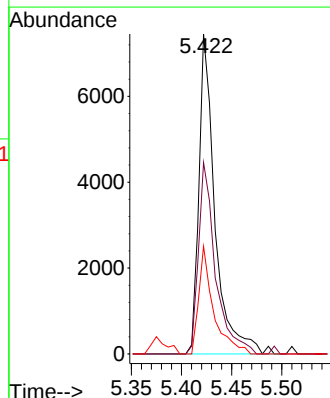
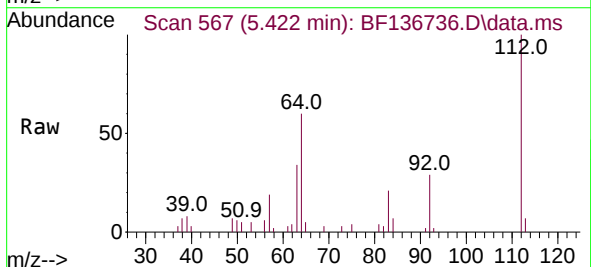
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01DL

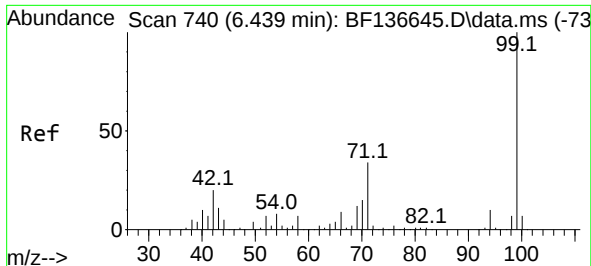
Tgt Ion:152 Resp: 65988
Ion Ratio Lower Upper
152 100
150 156.8 127.0 190.6
115 62.7 49.0 73.4



#5
2-Fluorophenol
Concen: 1.970 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF136736.D
Acq: 27 Dec 2023 00:09

Tgt Ion:112 Resp: 8333
Ion Ratio Lower Upper
112 100
64 59.9 51.1 76.7
63 33.7 26.1 39.1

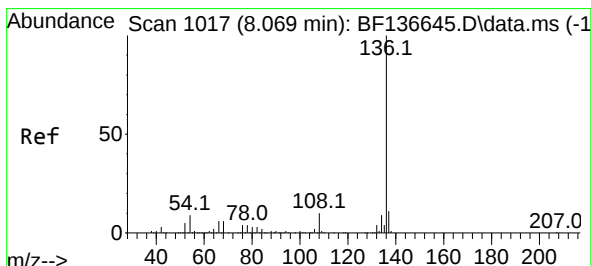
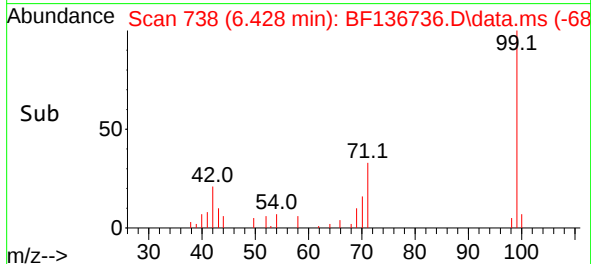
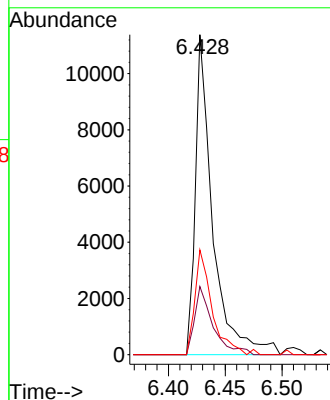
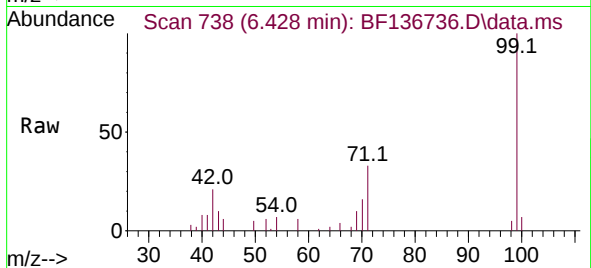




#7
Phenol-d6
Concen: 2.194 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136736.D
Acq: 27 Dec 2023 00:09

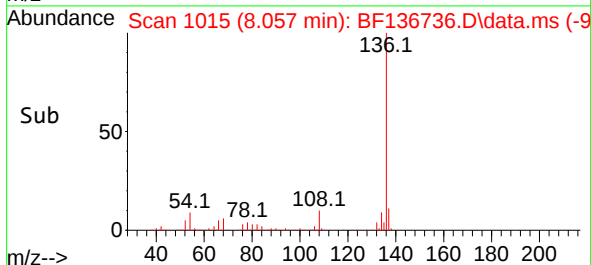
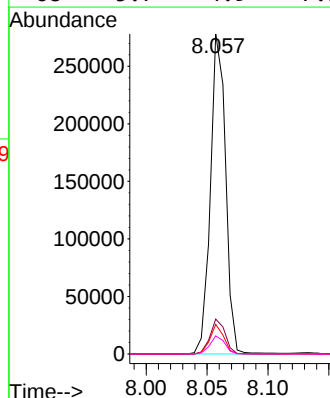
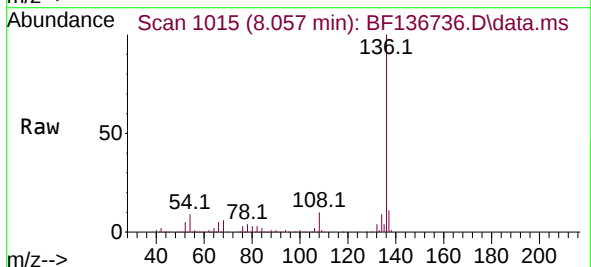
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01DL

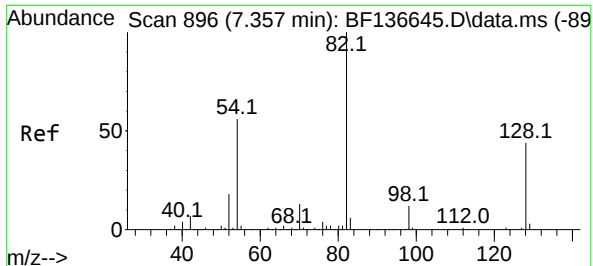
Tgt Ion: 99 Resp: 12023
Ion Ratio Lower Upper
99 100
42 21.3 16.1 24.1
71 32.8 27.4 41.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF136736.D
Acq: 27 Dec 2023 00:09

Tgt Ion: 136 Resp: 240824
Ion Ratio Lower Upper
136 100
137 10.9 9.0 13.4
54 9.3 7.2 10.8
68 5.7 4.9 7.3





#23

Nitrobenzene-d5

Concen: 1.929 ng

RT: 7.339 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF136736.D

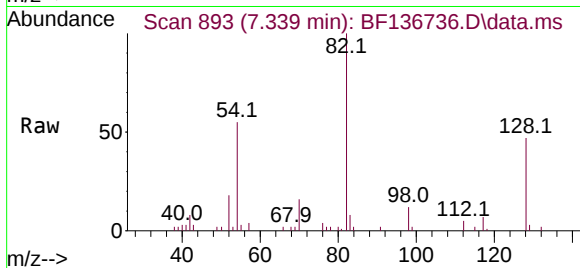
Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL



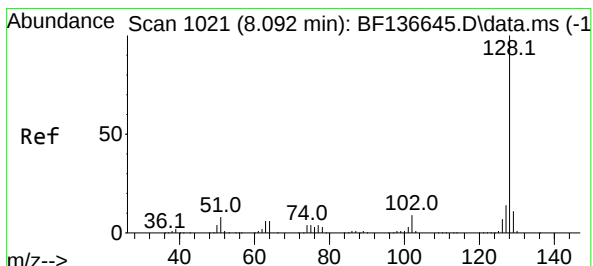
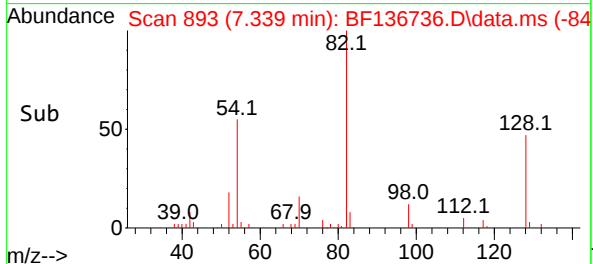
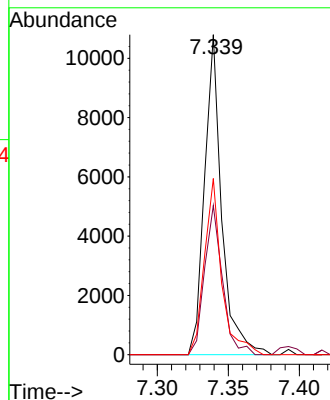
Tgt Ion: 82 Resp: 9077

Ion Ratio Lower Upper

82 100

128 46.6 35.3 52.9

54 55.1 44.5 66.7



#31

Naphthalene

Concen: 33.496 ng

RT: 8.081 min Scan# 1019

Delta R.T. -0.012 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

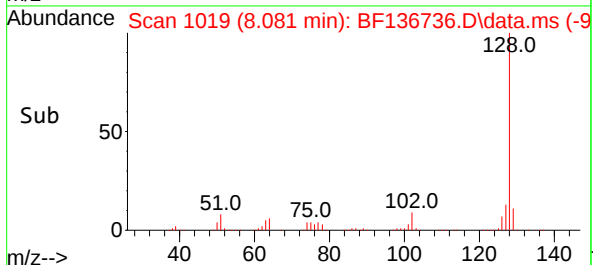
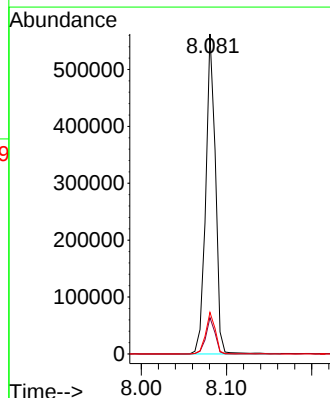
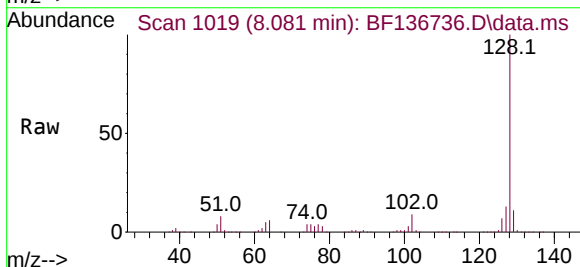
Tgt Ion: 128 Resp: 443157

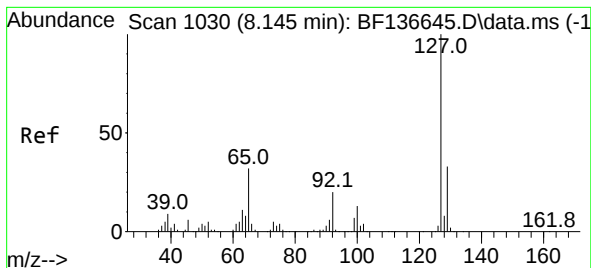
Ion Ratio Lower Upper

128 100

129 11.4 8.7 13.1

127 13.0 10.8 16.2





#33

4-Chloroaniline

Concen: 11.605 ng

RT: 8.081 min Scan# 1137

Delta R.T. -0.065 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL

Tgt Ion:127 Resp: 56690

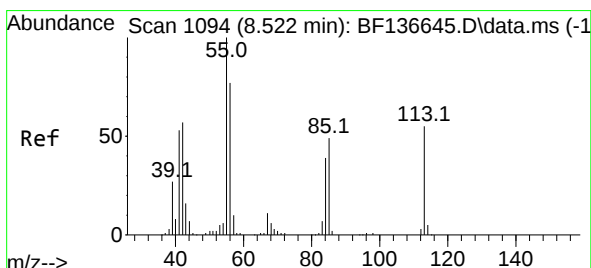
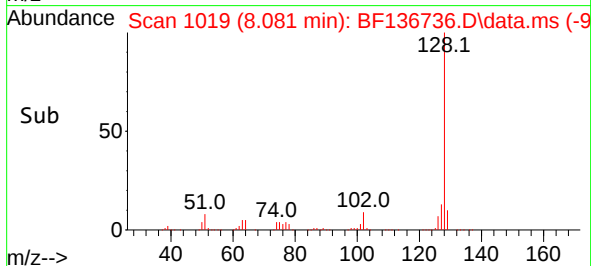
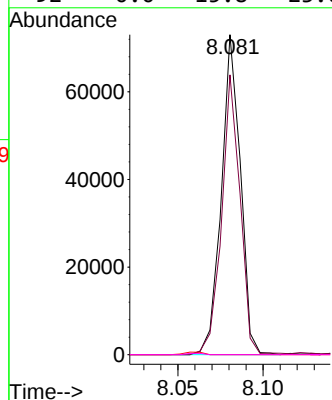
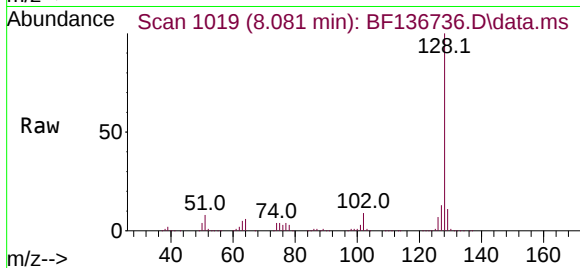
Ion Ratio Lower Upper

127 100

129 87.4 26.3 39.5#

65 0.0 25.8 38.8#

92 0.0 15.8 23.6#



#35

Caprolactam

Concen: 2.877 ng

RT: 8.775 min Scan# 1137

Delta R.T. 0.253 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

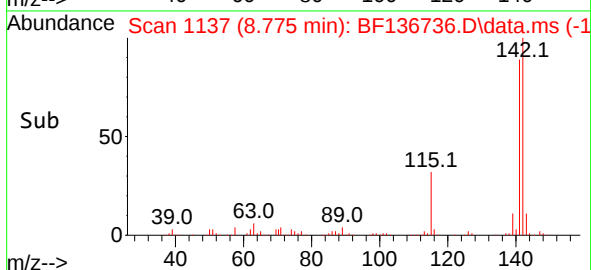
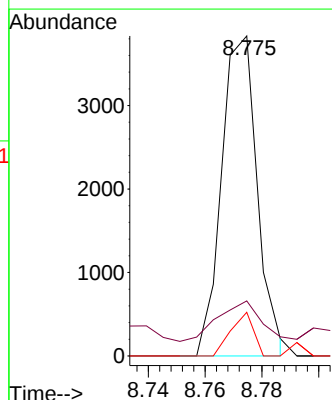
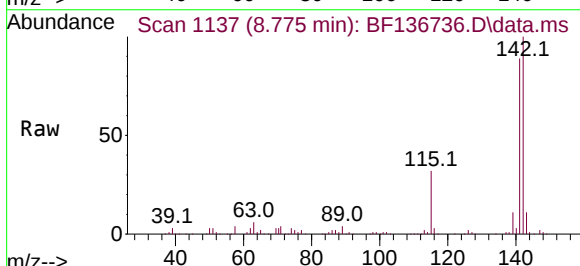
Tgt Ion:113 Resp: 3355

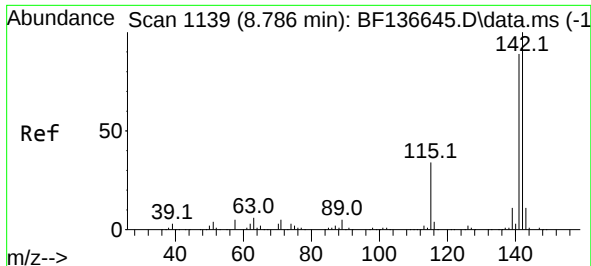
Ion Ratio Lower Upper

113 100

55 17.2 163.1 203.1#

56 13.6 121.7 161.7#





#37

2-Methylnaphthalene

Concen: 18.551 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

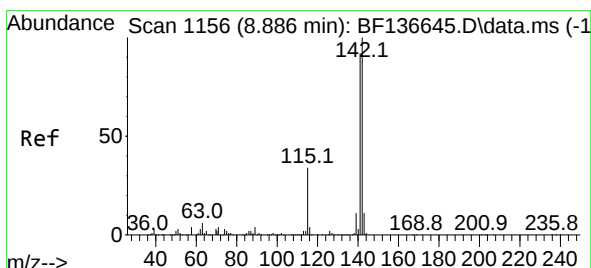
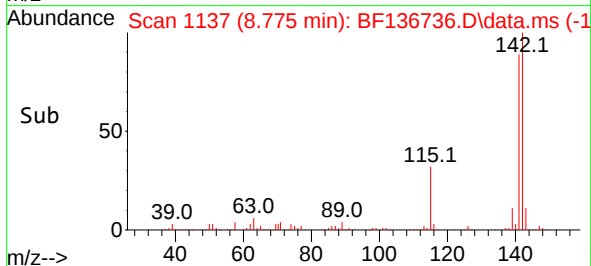
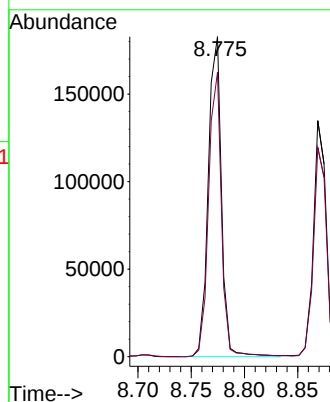
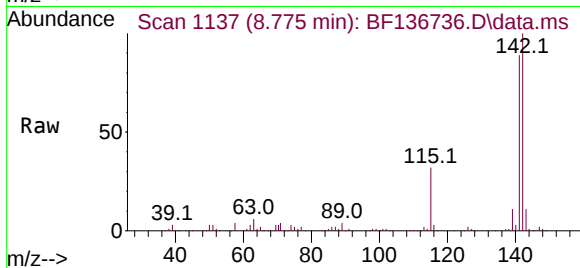
WC-SOLIDS-20231213-01DL

Tgt Ion:142 Resp: 157952

Ion Ratio Lower Upper

142 100

141 88.9 71.1 106.7



#38

1-Methylnaphthalene

Concen: 13.562 ng

RT: 8.869 min Scan# 1153

Delta R.T. -0.018 min

Lab File: BF136736.D

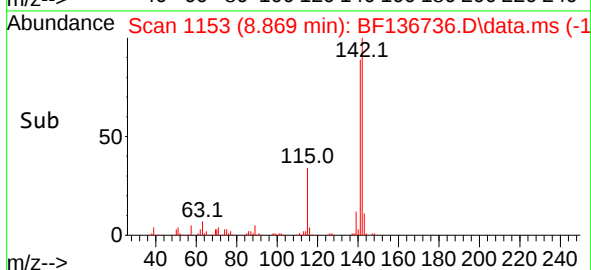
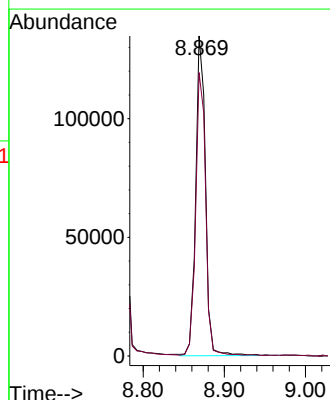
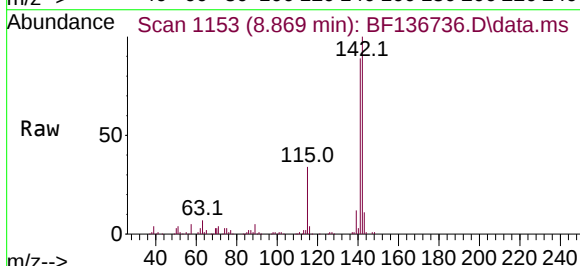
Acq: 27 Dec 2023 00:09

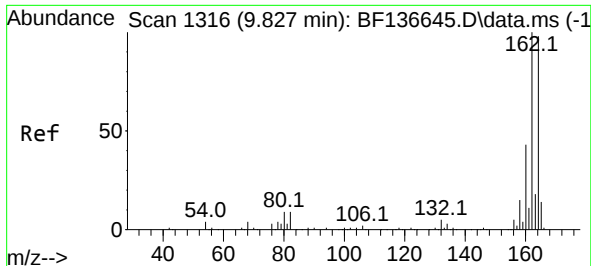
Tgt Ion:142 Resp: 113289

Ion Ratio Lower Upper

142 100

141 88.6 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136736.D

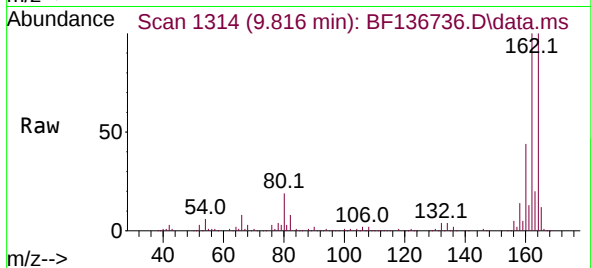
Acq: 27 Dec 2023 00:09

Instrument :

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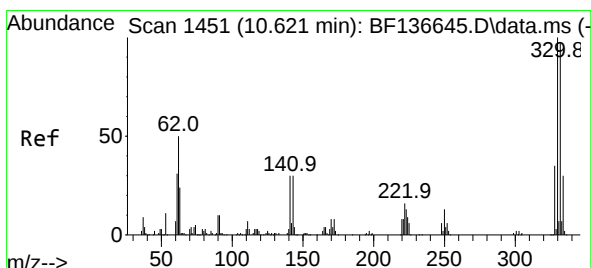
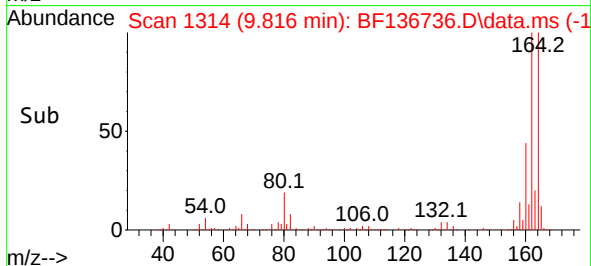
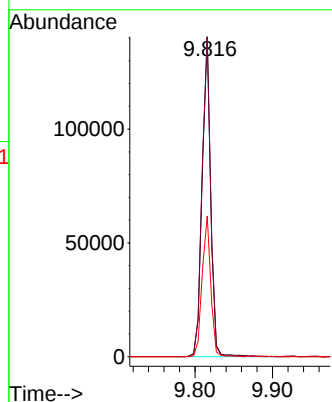
Tgt Ion:164 Resp: 106932

Ion Ratio Lower Upper

164 100

162 99.9 81.6 122.4

160 44.0 34.9 52.3



#42

2,4,6-Tribromophenol

Concen: 1.841 ng

RT: 10.610 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

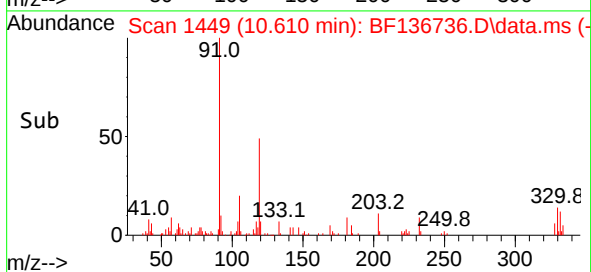
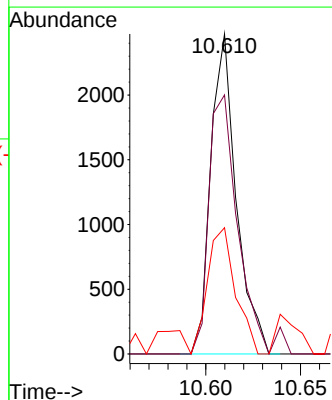
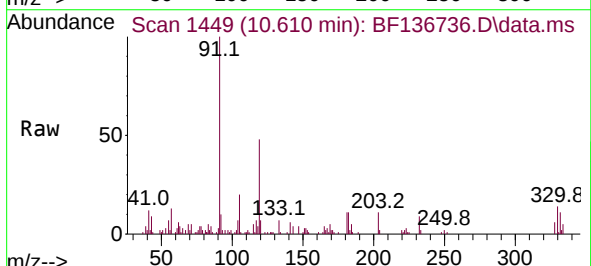
Tgt Ion:330 Resp: 2319

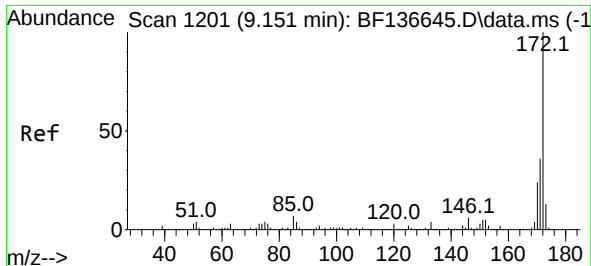
Ion Ratio Lower Upper

330 100

332 93.3 77.4 116.0

141 43.3 23.4 35.2#





#45

2-Fluorobiphenyl

Concen: 2.558 ng

RT: 9.133 min Scan# 1198

Delta R.T. -0.018 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Instrument :

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ClientSampleId :

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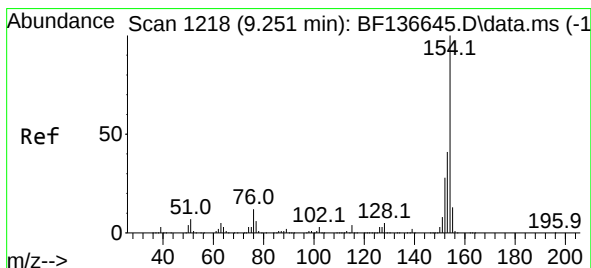
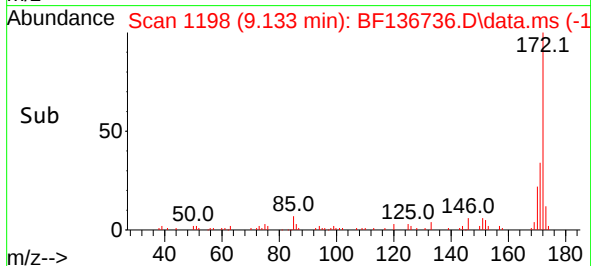
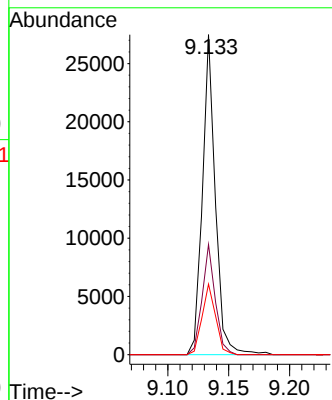
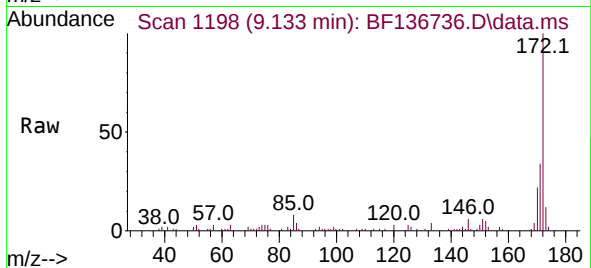
Tgt Ion:172 Resp: 20336

Ion Ratio Lower Upper

172 100

171 34.4 29.0 43.6

170 22.1 19.0 28.4



#46

1,1'-Biphenyl

Concen: 2.132 ng

RT: 9.233 min Scan# 1215

Delta R.T. -0.018 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

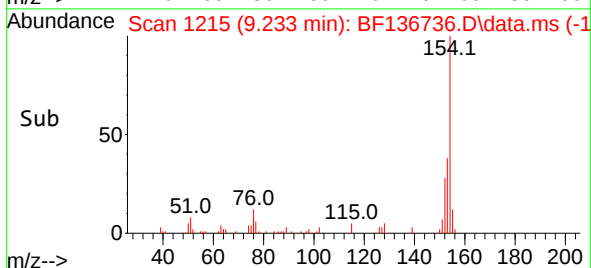
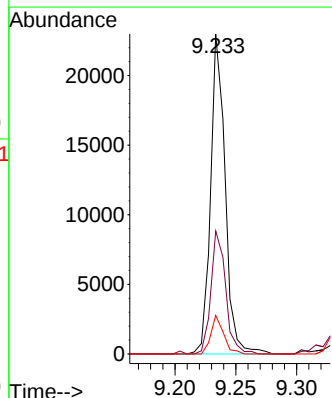
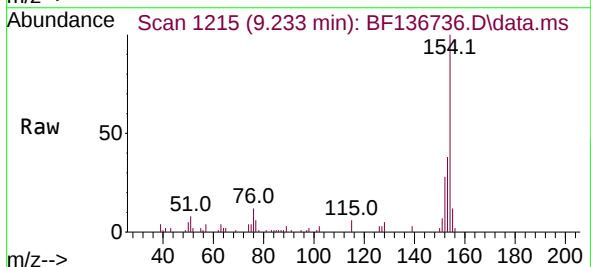
Tgt Ion:154 Resp: 19127

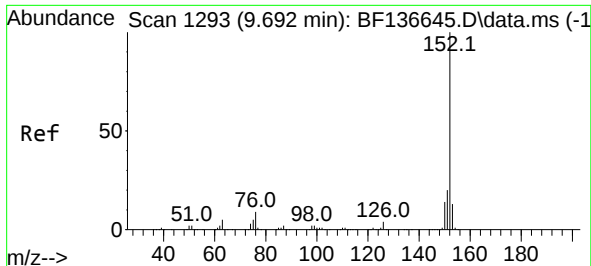
Ion Ratio Lower Upper

154 100

153 38.5 21.1 61.1

76 12.0 0.0 31.7

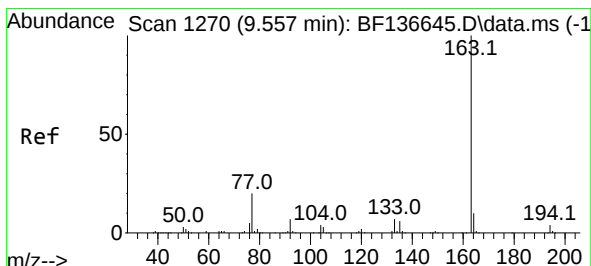
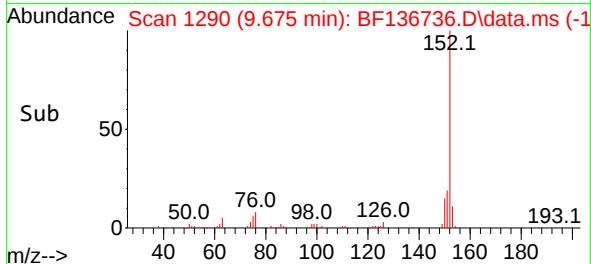
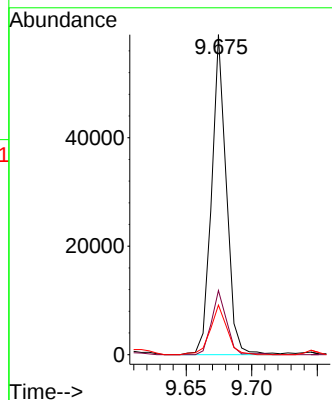
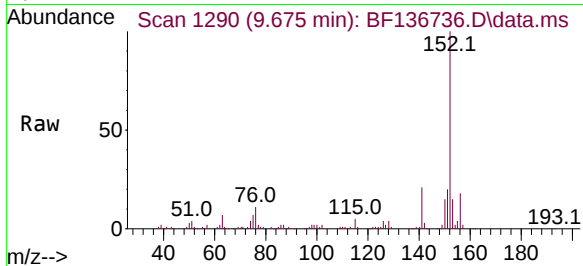




#49
Acenaphthylene
Concen: 4.438 ng
RT: 9.675 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF136736.D
Acq: 27 Dec 2023 00:09

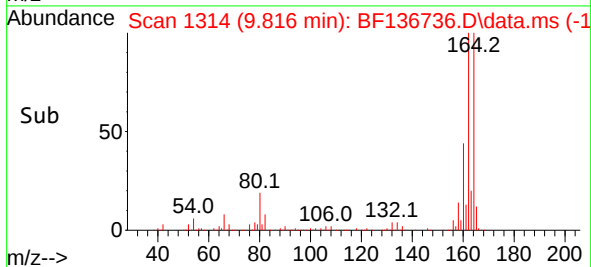
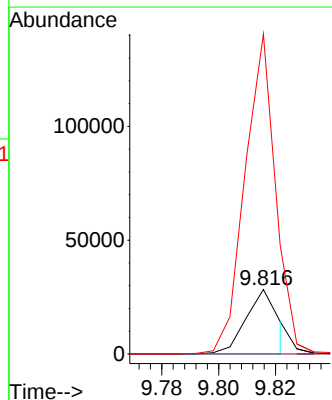
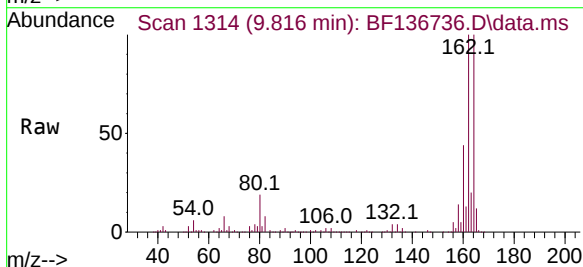
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01DL

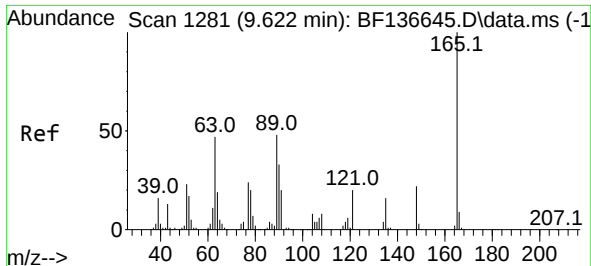
Tgt Ion:152 Resp: 46273
Ion Ratio Lower Upper
152 100
151 20.0 16.2 24.4
153 15.5 10.2 15.2#



#50
Dimethylphthalate
Concen: 2.818 ng
RT: 9.816 min Scan# 1314
Delta R.T. 0.259 min
Lab File: BF136736.D
Acq: 27 Dec 2023 00:09

Tgt Ion:163 Resp: 22008
Ion Ratio Lower Upper
163 100
194 0.0 3.3 4.9#
164 496.6 7.8 11.6#

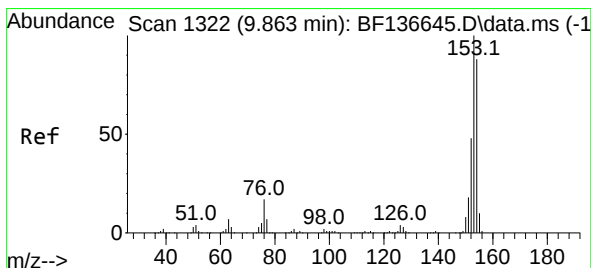
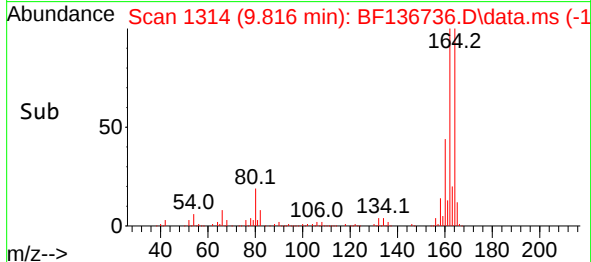
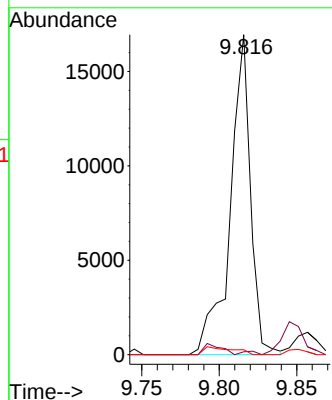
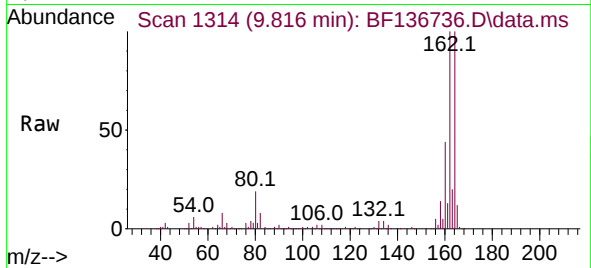




#51
2,6-Dinitrotoluene
Concen: 8.742 ng
RT: 9.816 min Scan# 11
Delta R.T. 0.194 min
Lab File: BF136736.D
Acq: 27 Dec 2023 00:09

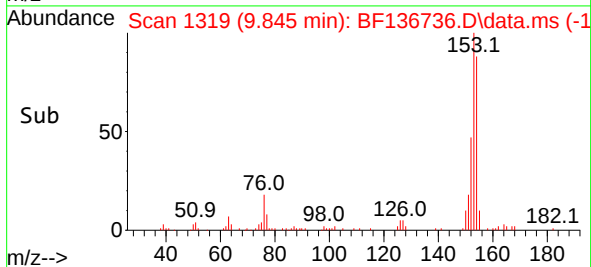
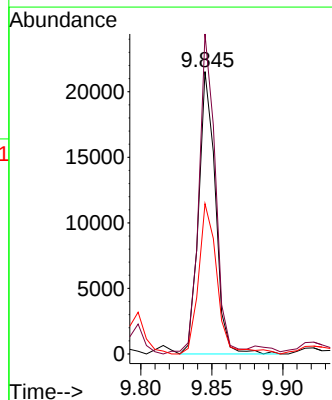
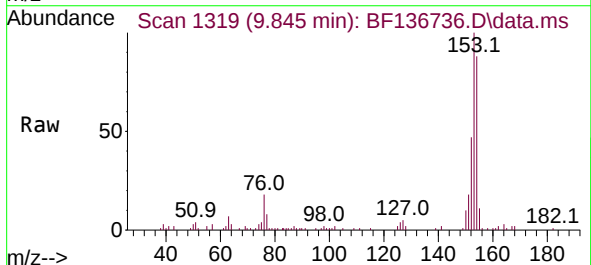
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01DL

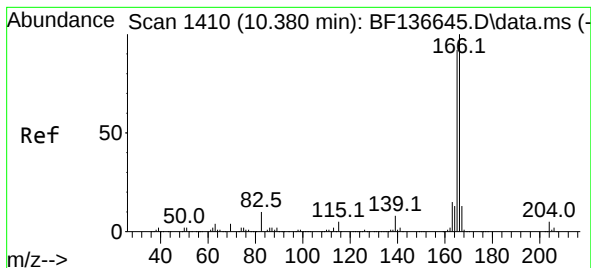
Tgt Ion:165 Resp: 15496
Ion Ratio Lower Upper
165 100
63 0.9 39.8 59.6#
89 1.5 38.8 58.2#



#52
Acenaphthene
Concen: 2.733 ng
RT: 9.845 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF136736.D
Acq: 27 Dec 2023 00:09

Tgt Ion:154 Resp: 17667
Ion Ratio Lower Upper
154 100
153 113.3 90.7 136.1
152 53.2 43.7 65.5





#58

Fluorene

Concen: 5.539 ng

RT: 10.363 min Scan# 1410

Delta R.T. -0.018 min

Lab File: BF136736.D

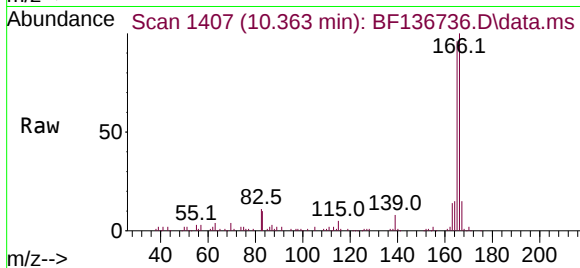
Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL



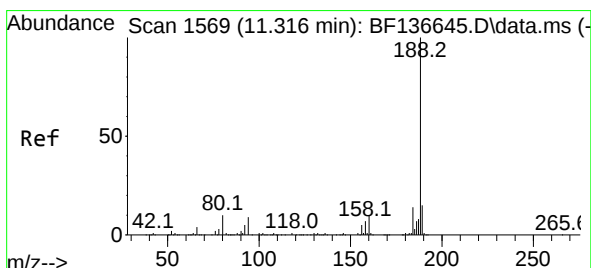
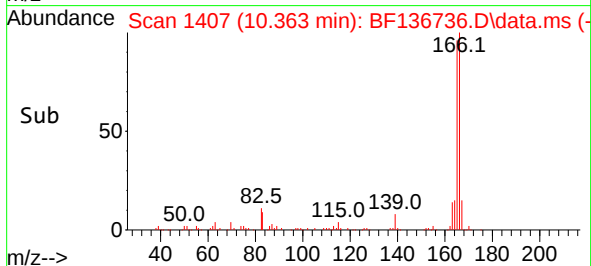
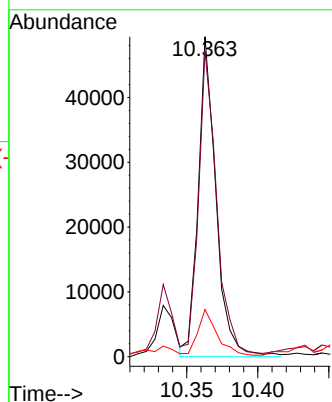
Tgt Ion:166 Resp: 43061

Ion Ratio Lower Upper

166 100

165 95.6 73.7 110.5

167 14.7 10.4 15.6



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1568

Delta R.T. -0.006 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

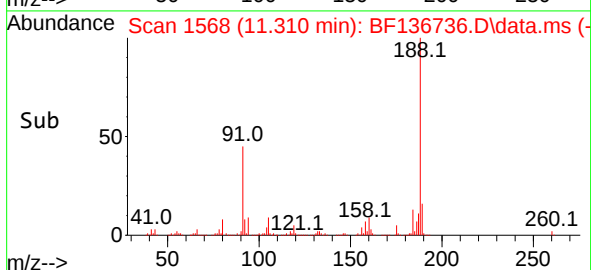
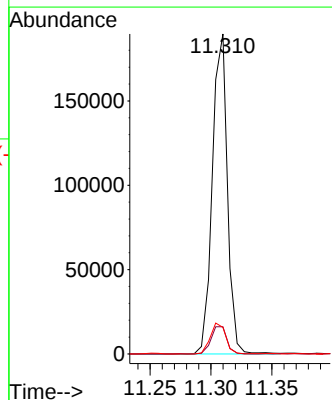
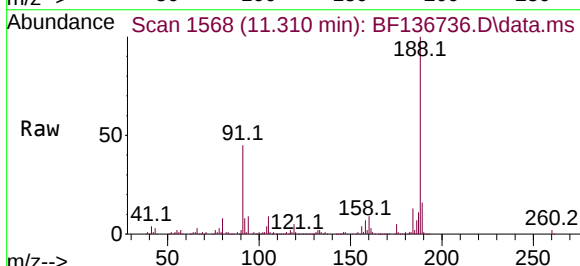
Tgt Ion:188 Resp: 163159

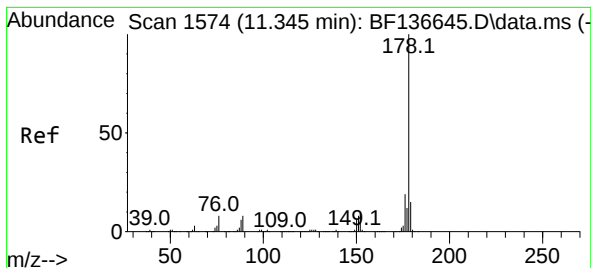
Ion Ratio Lower Upper

188 100

94 8.5 7.5 11.3

80 8.3 8.1 12.1





#71

Phenanthrene

Concen: 17.868 ng

RT: 11.333 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL

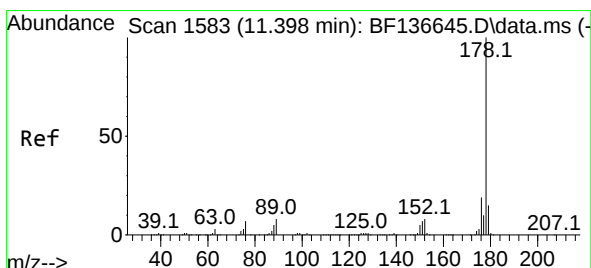
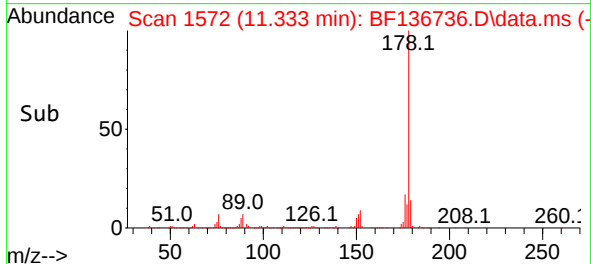
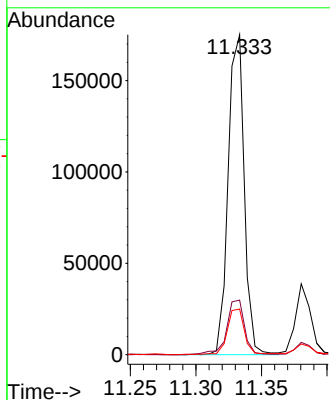
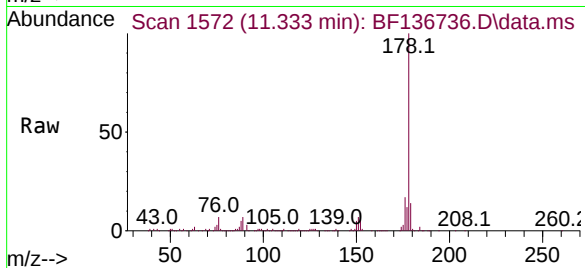
Tgt Ion:178 Resp: 149589

Ion Ratio Lower Upper

178 100

176 17.1 15.3 22.9

179 14.2 11.9 17.9



#72

Anthracene

Concen: 3.489 ng

RT: 11.380 min Scan# 1580

Delta R.T. -0.018 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

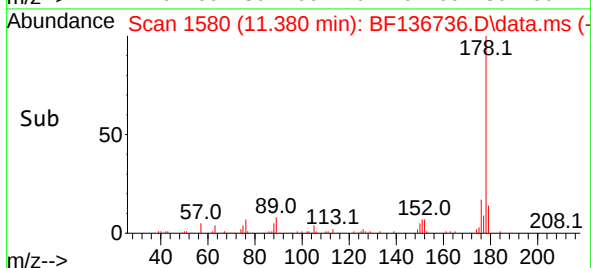
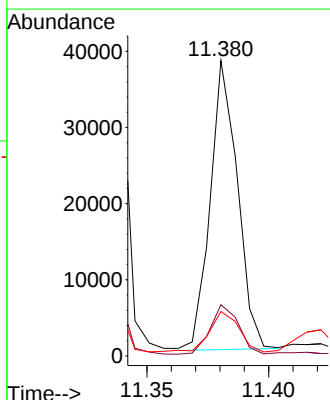
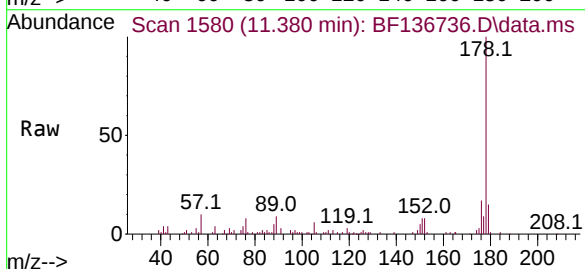
Tgt Ion:178 Resp: 29584

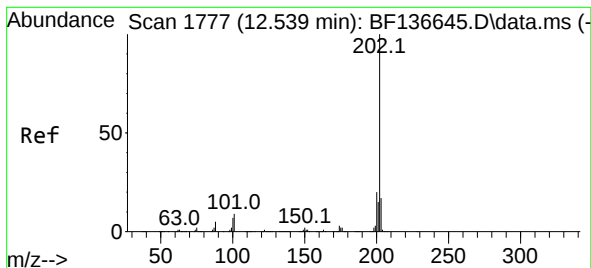
Ion Ratio Lower Upper

178 100

176 17.3 14.9 22.3

179 15.1 11.8 17.6





#75

Fluoranthene

Concen: 5.368 ng

RT: 12.527 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL

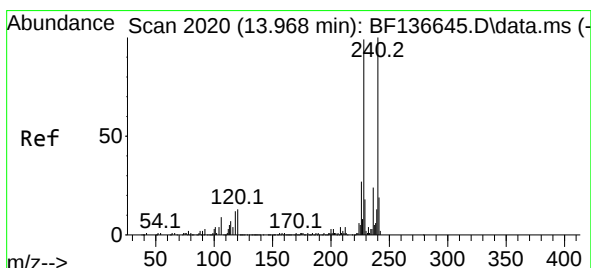
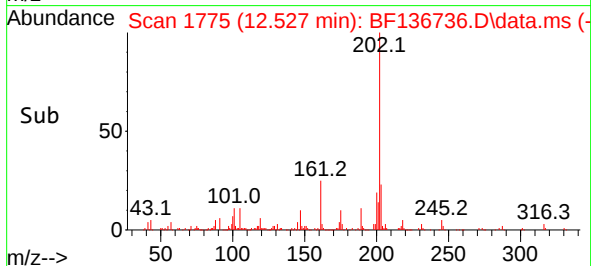
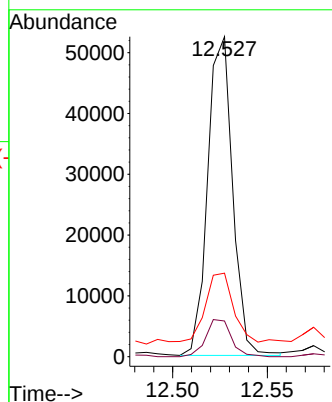
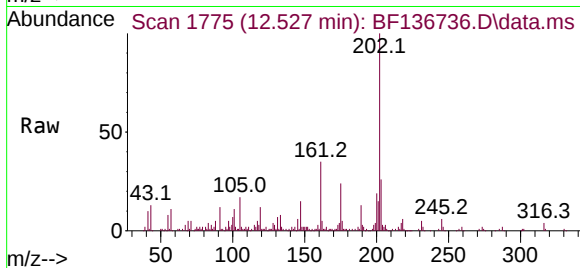
Tgt Ion:202 Resp: 48071

Ion Ratio Lower Upper

202 100

101 11.2 0.0 29.3

203 26.1 0.0 37.1



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

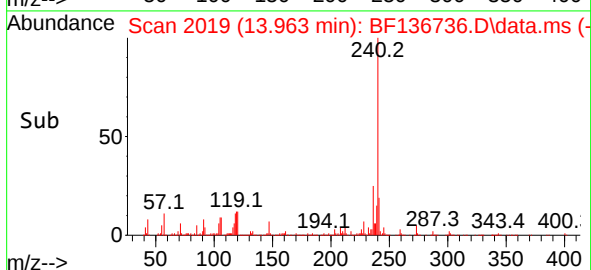
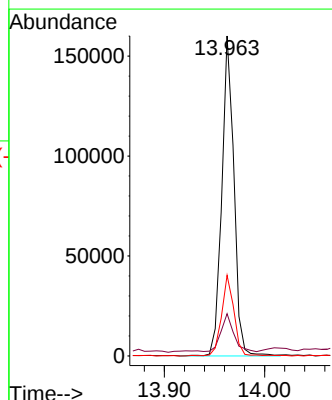
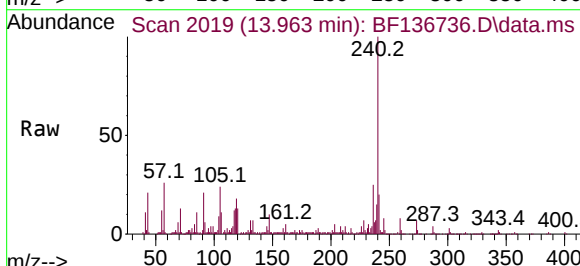
Tgt Ion:240 Resp: 134469

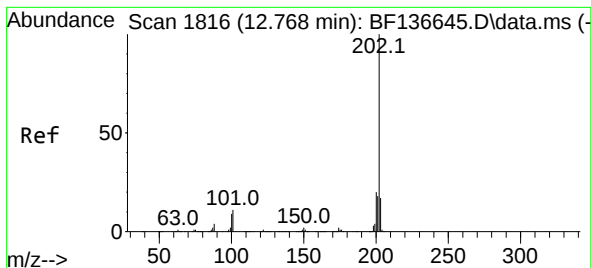
Ion Ratio Lower Upper

240 100

120 13.2 10.3 15.5

236 25.2 19.4 29.2





#78

Pyrene

Concen: 6.084 ng

RT: 12.757 min Scan# 1814

Delta R.T. -0.012 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL

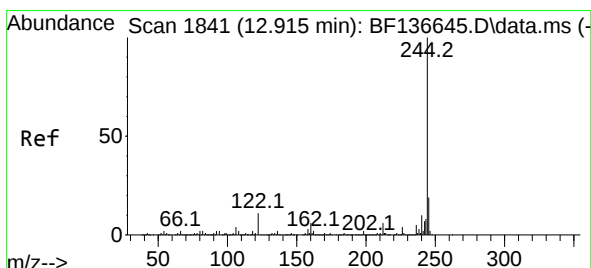
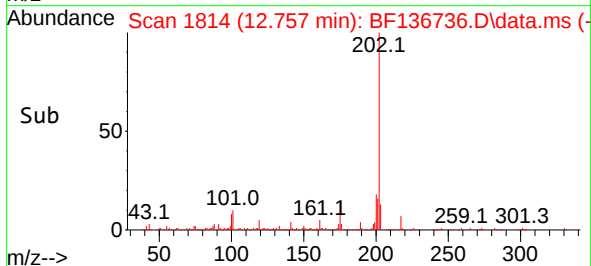
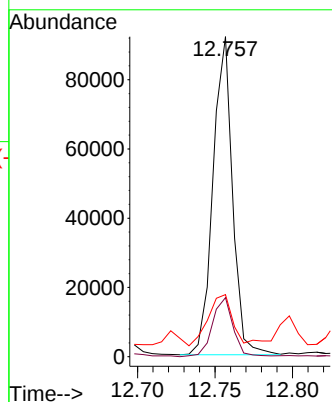
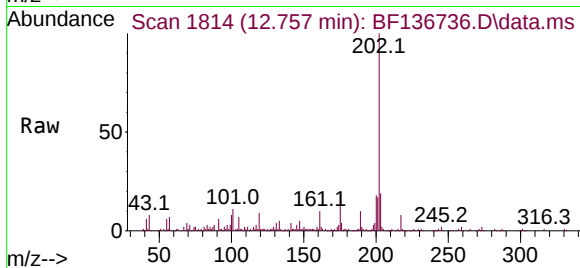
Tgt Ion:202 Resp: 80309

Ion Ratio Lower Upper

202 100

200 18.4 15.9 23.9

203 19.4 13.8 20.6



#79

Terphenyl-d14

Concen: 1.853 ng

RT: 12.898 min Scan# 1838

Delta R.T. -0.018 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

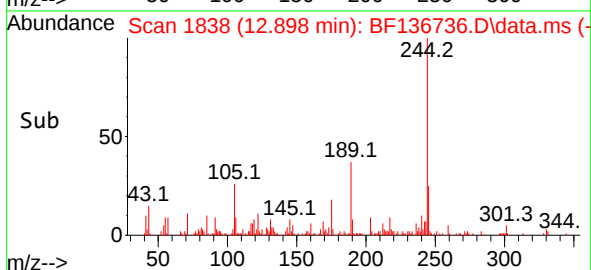
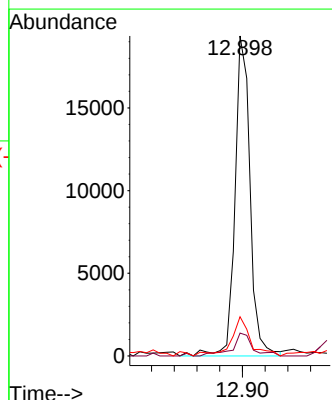
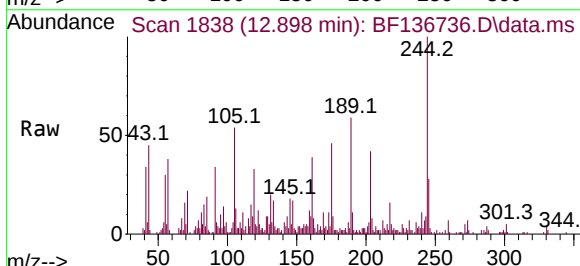
Tgt Ion:244 Resp: 17827

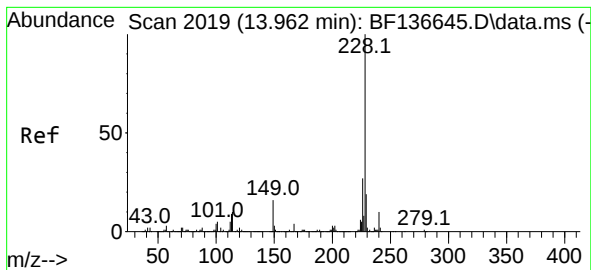
Ion Ratio Lower Upper

244 100

212 7.1 5.0 7.4

122 12.3 9.0 13.4





#81

Benzo(a)anthracene

Concen: 3.593 ng

RT: 13.951 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL

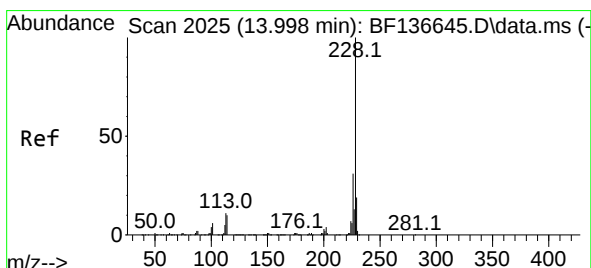
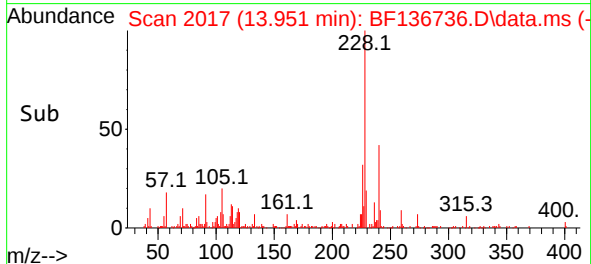
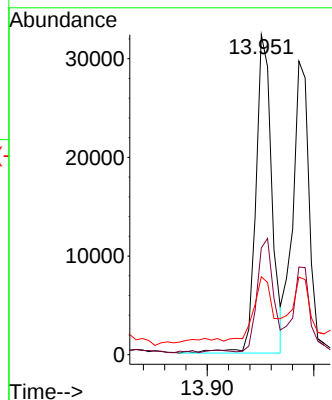
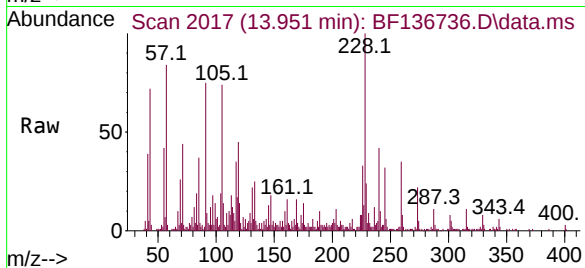
Tgt Ion:228 Resp: 33545

Ion Ratio Lower Upper

228 100

226 33.3 21.4 32.0#

229 24.4 14.9 22.3#



#83

Chrysene

Concen: 3.445 ng

RT: 13.986 min Scan# 2023

Delta R.T. -0.012 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

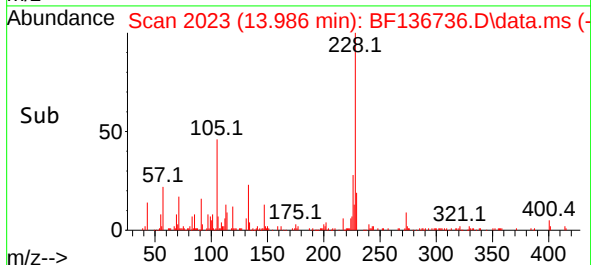
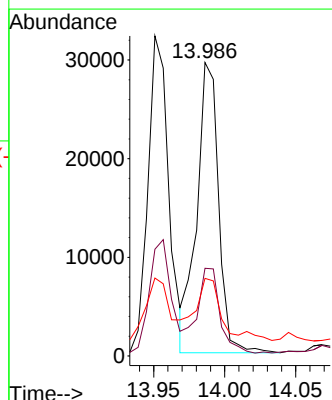
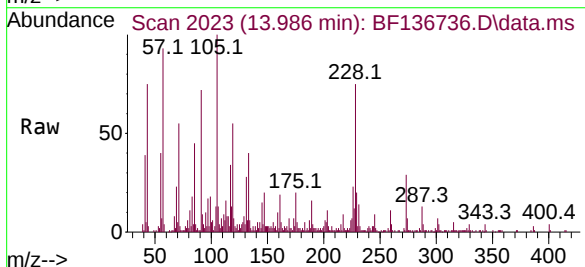
Tgt Ion:228 Resp: 31454

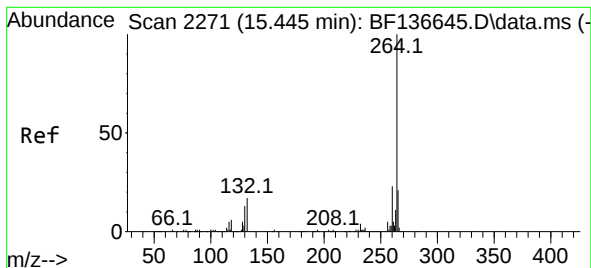
Ion Ratio Lower Upper

228 100

226 29.9 24.7 37.1

229 26.4 15.4 23.0#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.445 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL

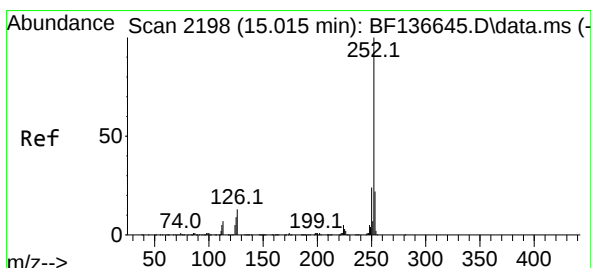
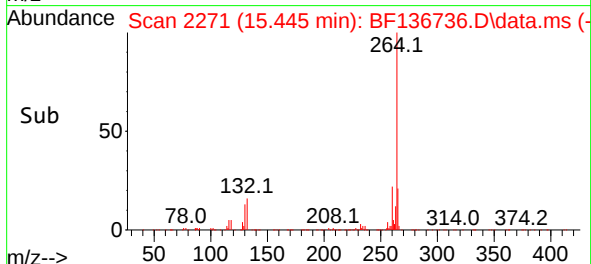
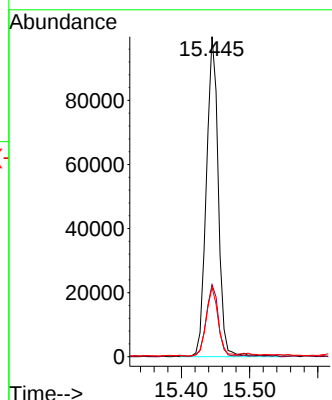
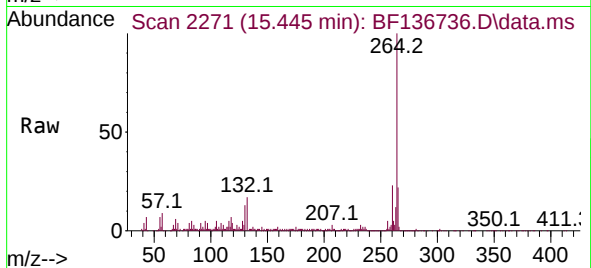
Tgt Ion:264 Resp: 121781

Ion Ratio Lower Upper

264 100

260 22.5 18.3 27.5

265 21.6 17.0 25.6



#88

Benzo(b)fluoranthene

Concen: 2.428 ng

RT: 15.015 min Scan# 2198

Delta R.T. 0.000 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

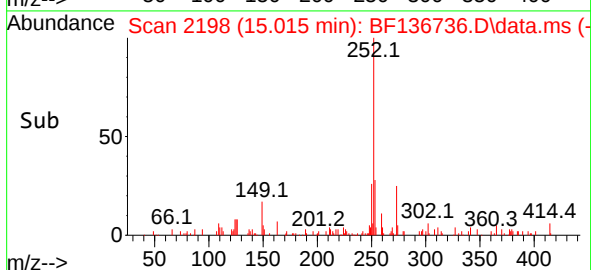
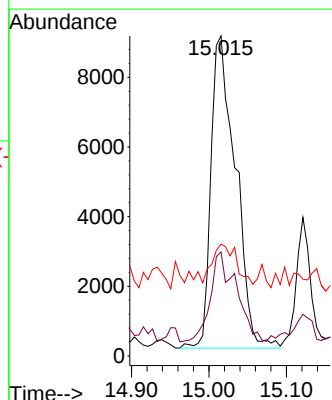
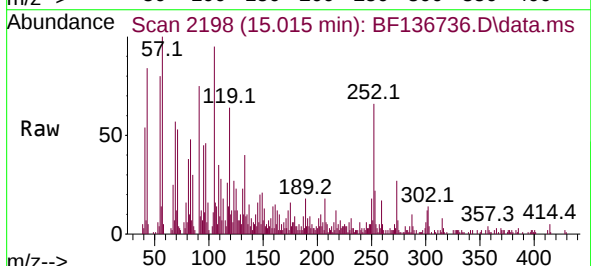
Tgt Ion:252 Resp: 19745

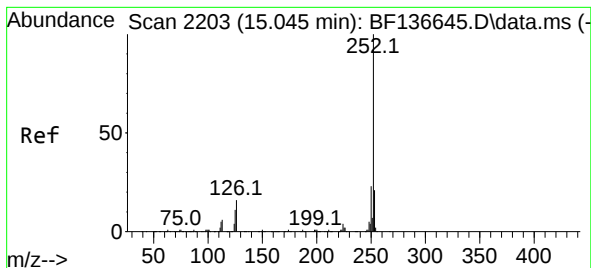
Ion Ratio Lower Upper

252 100

253 32.5 17.4 26.0#

125 34.9 7.4 11.2#





#89

Benzo(k)fluoranthene

Concen: 2.569 ng

RT: 15.015 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF136736.D

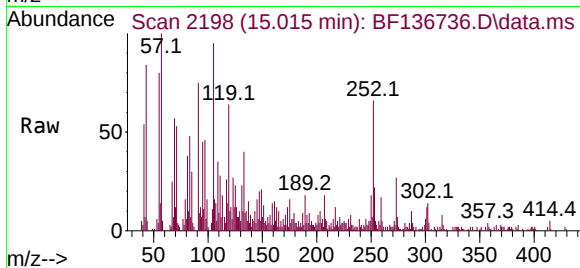
Acq: 27 Dec 2023 00:09

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01DL



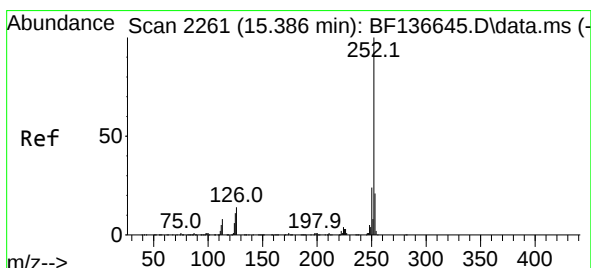
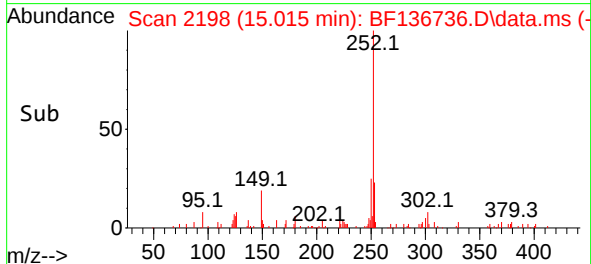
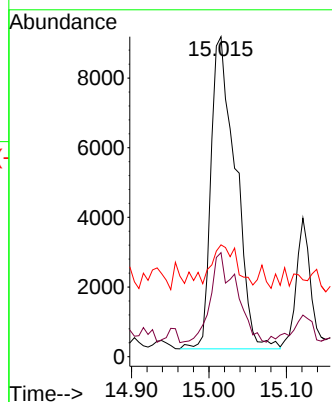
Tgt Ion:252 Resp: 19745

Ion Ratio Lower Upper

252 100

253 32.5 17.0 25.6#

125 34.9 8.2 12.4#



#90

Benzo(a)pyrene

Concen: 2.315 ng

RT: 15.380 min Scan# 2260

Delta R.T. -0.006 min

Lab File: BF136736.D

Acq: 27 Dec 2023 00:09

Tgt Ion:252 Resp: 15895

Ion Ratio Lower Upper

252 100

253 31.2 17.0 25.6#

125 25.8 8.8 13.2#

