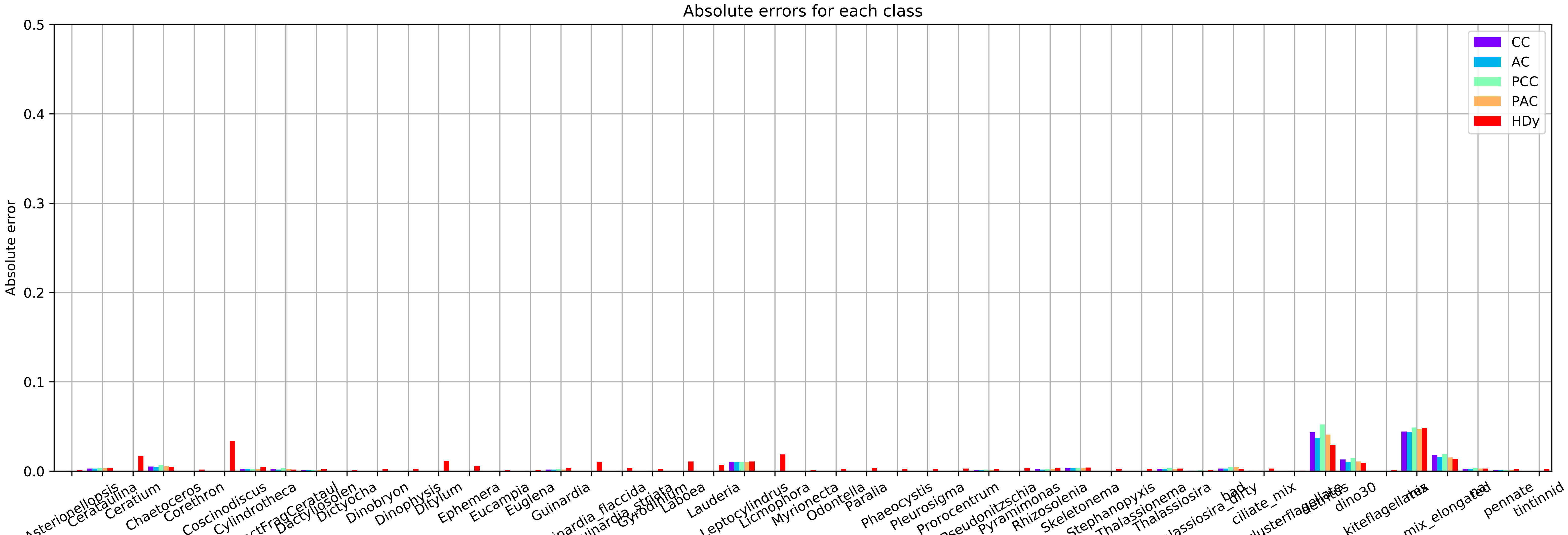
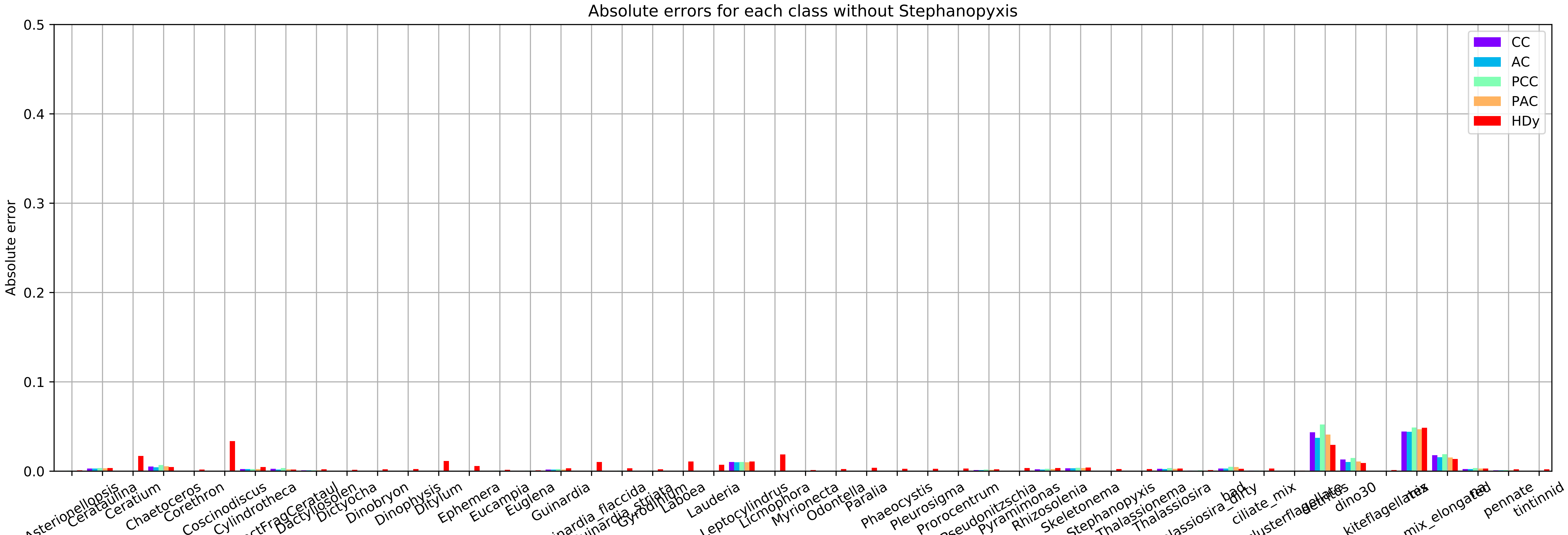
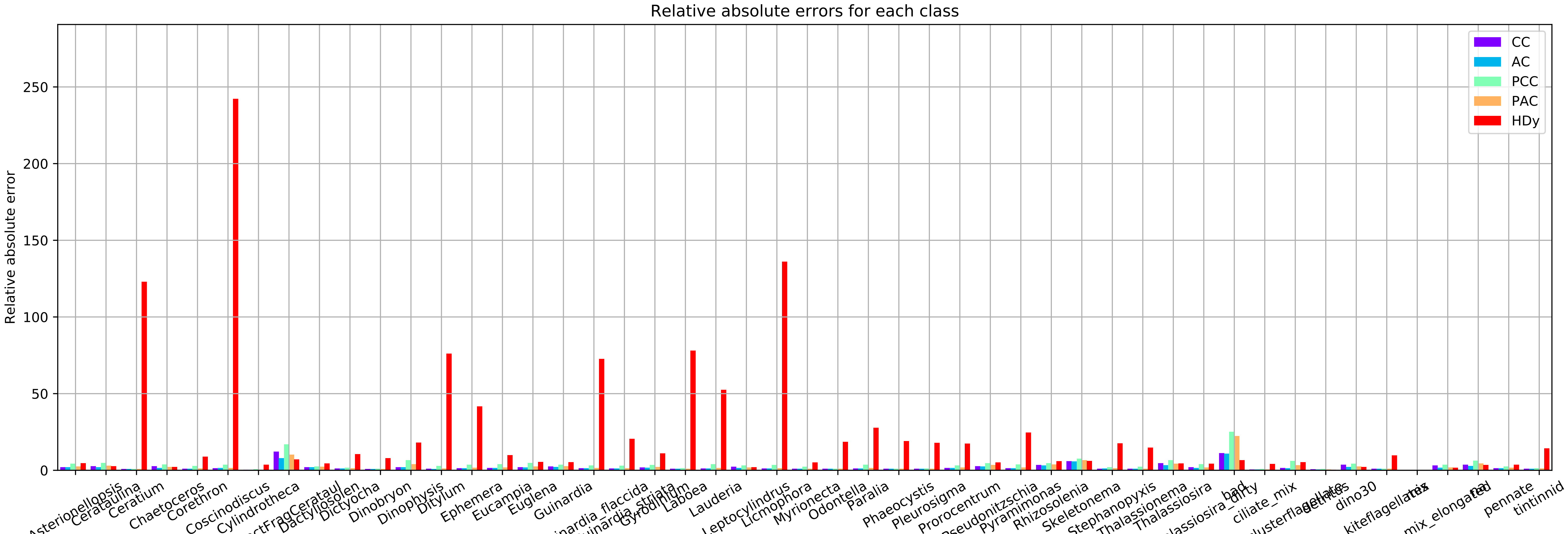
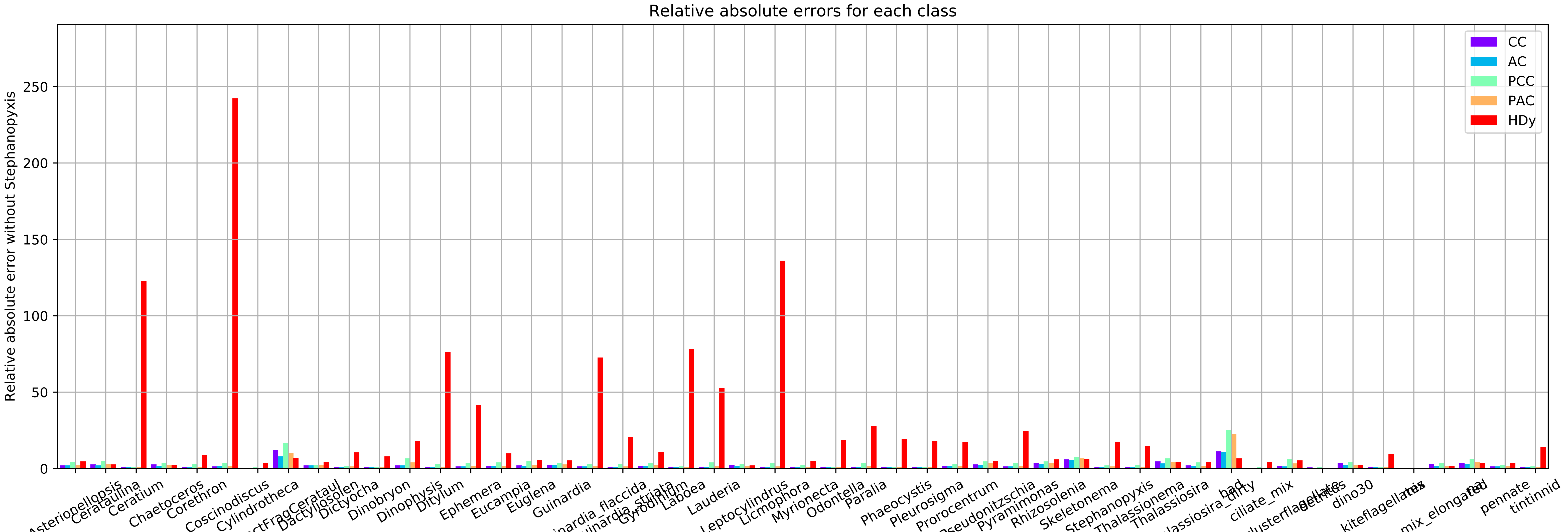
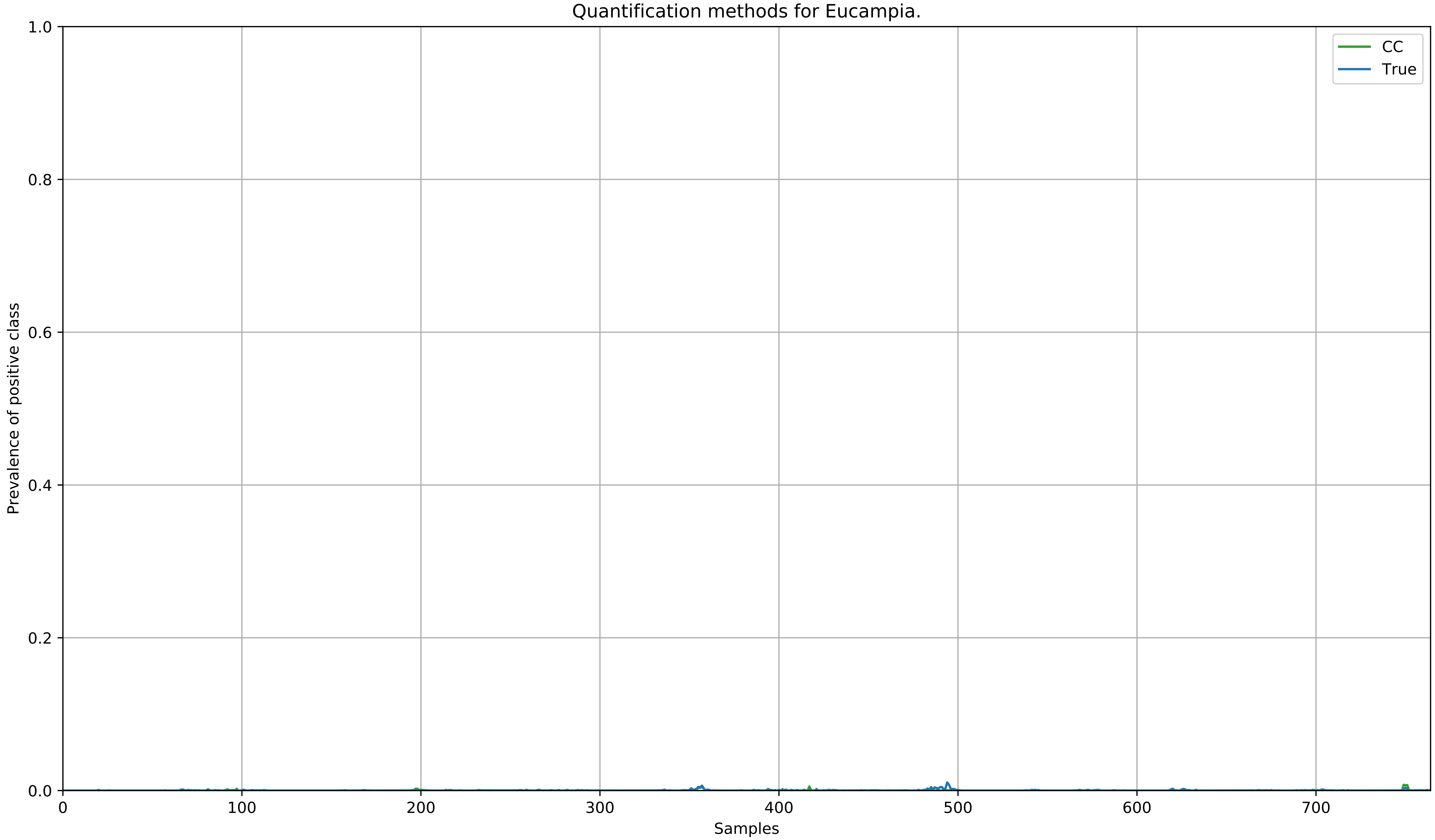
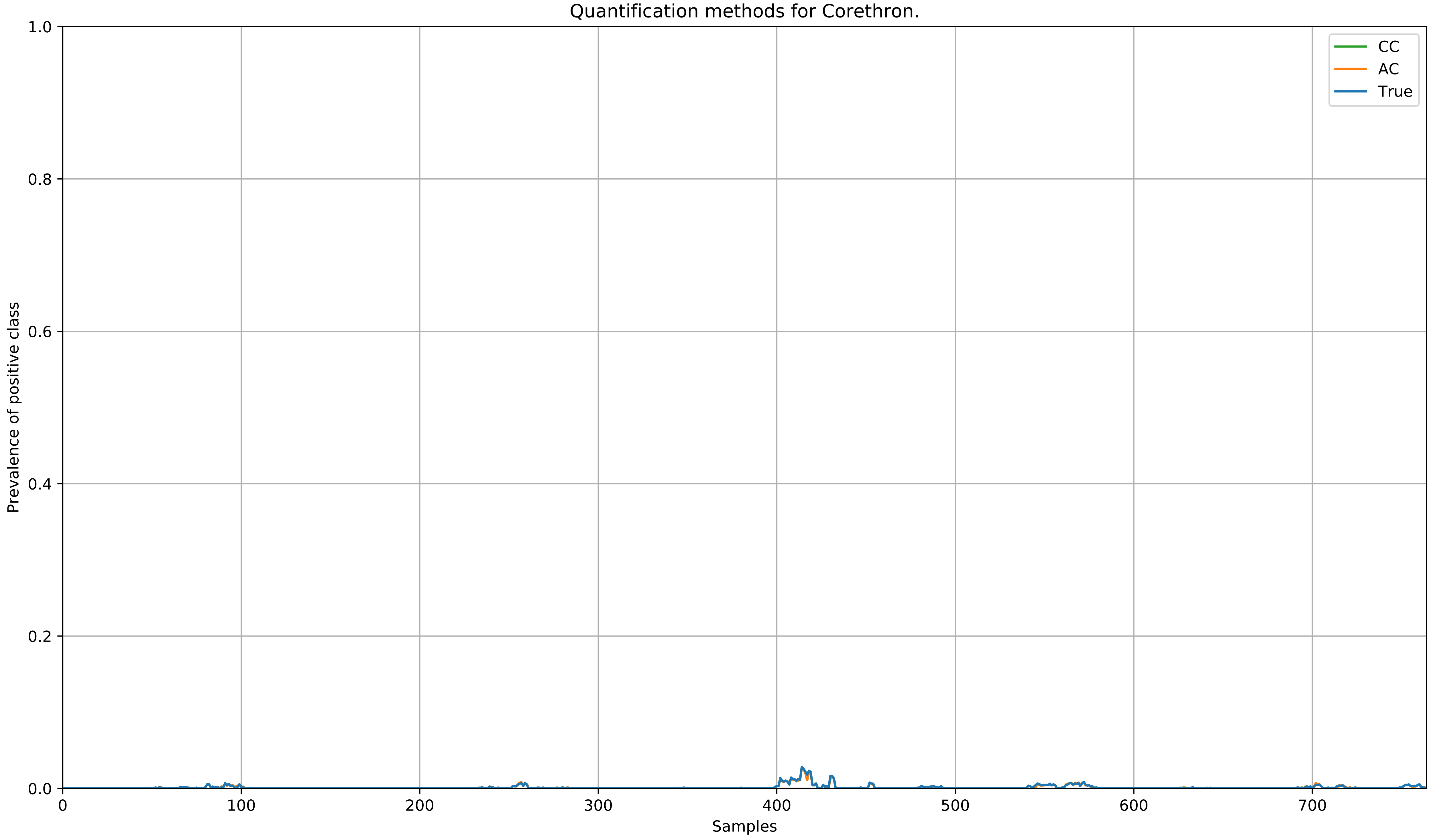

Absolute errors for each class
Absolute error
0.5
0.4
0.3
0.2
0.1
0.0
CC
AC
PCC
PAC
HDy
Asterionellopsis
Cerataulina
Ceratium
Chaetoceros
Corethron
Coscinodiscus
Cylindrotheca
ctFragCerataul
Dactyliosolen
Dictyocha
Dinobryon
Dinophysis
Ditylum
Ephemera
Eucampia
Euglena
Guinardia
inardia_flaccida
uinardia_striata
Gyrodinium
Laboea
Lauderia
Leptocylindrus
Licmophora
Myrionecta
Odontella
Paralia
Phaeocystis
Pleurosigma
Prorocentrum
seudonitzschia
Pyramimonas
Rhizosolenia
Skeletonema
Stephanopyxis
Thalassionema
Thalassiosira
lassiosira_dirty
bad
ciliate_mix
lusterflagellate
detritus
dino30
kiteflagellates
mix
mix_elongated
pad
pennate
tintinnid

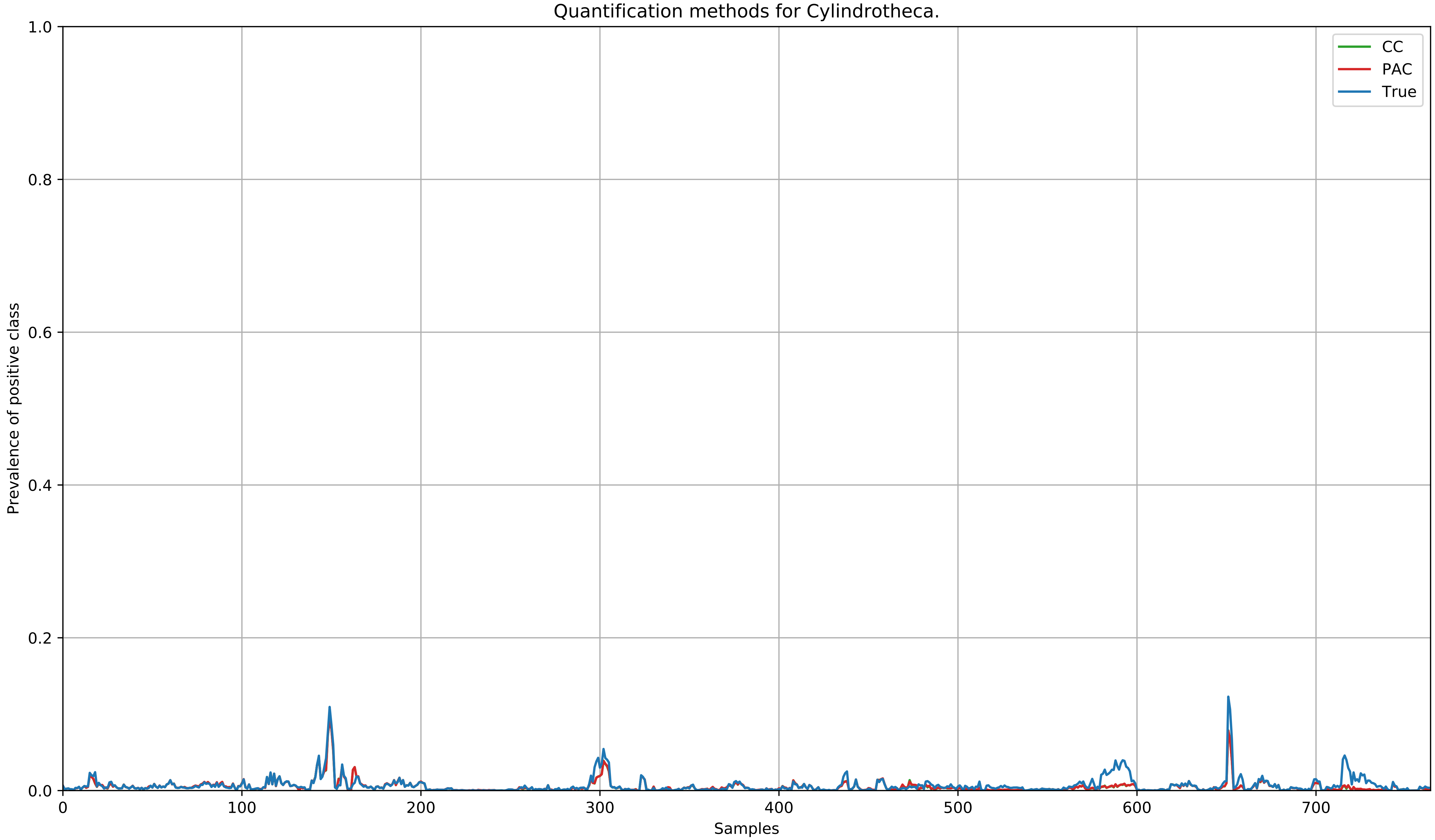

Absolute errors for each class without Stephanopyxis
Absolute error
0.5
0.4
0.3
0.2
0.1
0.0
CC
AC
PCC
PAC
HDy
Asterionellopsis
Cerataulina
Ceratium
Chaetoceros
Corethron
Coscinodiscus
Cylindrotheca
ctFragCerataul
Dactyliosolen
Dictyocha
Dinobryon
Dinophysis
Ditylum
Ephemera
Eucampia
Euglena
Guinardia
inardia_flaccida
uinardia_striata
Gyrodinium
Laboea
Lauderia
Leptocylindrus
Licmophora
Myrionecta
Odontella
Paralia
Phaeocystis
Pleurosigma
Prorocentrum
Pseudonitzschia
Pyramimonas
Rhizosolenia
Skeletonema
Stephanopyxis
Thalassionema
Thalassiosira
lassiosira_dirty
bad
ciliate_mix
lusterflagellate
detritus
dino30
kiteflagellates
mix
mix_elongated
na
pennate
tintinnid

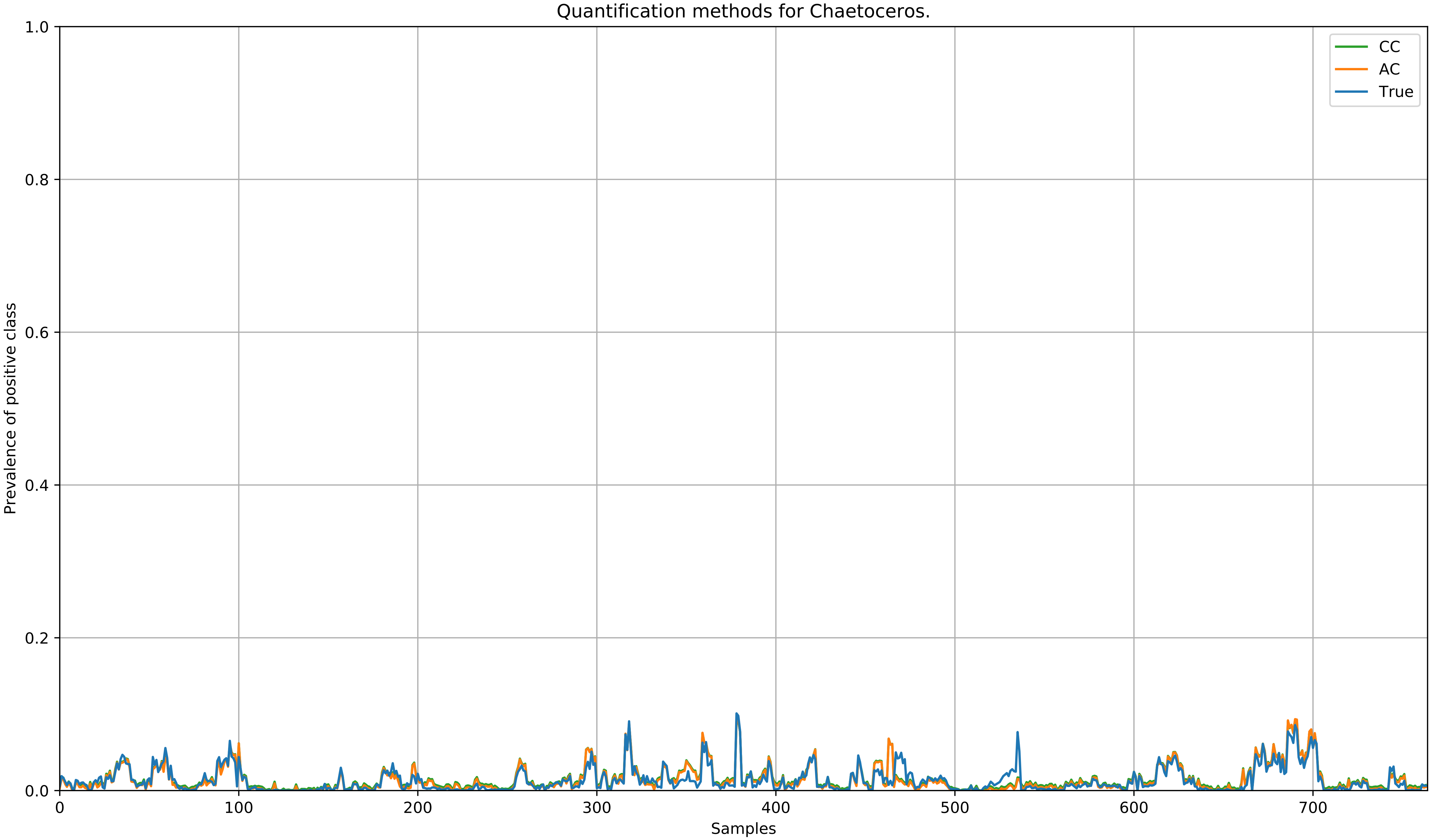

Relative absolute errors for each class
Relative absolute error
250
200
150
100
50
0
CC
AC
PCC
PAC
HDy
Asterionellopsis
Cerataulina
Ceratium
Chaetoceros
Corethron
Coscinodiscus
Cylindrotheca
ctFragCerataul
Dactyliosolen
Dictyocha
Dinobryon
Dinophysis
Ditylum
Ephemera
Eucampia
Euglena
Guinardia
inardia_flaccida
uinardia_striata
Gyrodinium
Laboea
Lauderia
Leptocylindrus
Licmophora
Myrionecta
Odontella
Paralia
Phaeocystis
Pleurosigma
Prorocentrum
Pseudonitzschia
Pyramimonas
Rhizosolenia
Skeletonema
Stephanopyxis
Thalassionema
Thalassiosira
lassiosira_dirty
bad
ciliate_mix
lusterflagellate
detritus
dino30
kiteflagellates
mix
mix_elongated
pennate
tintinnid

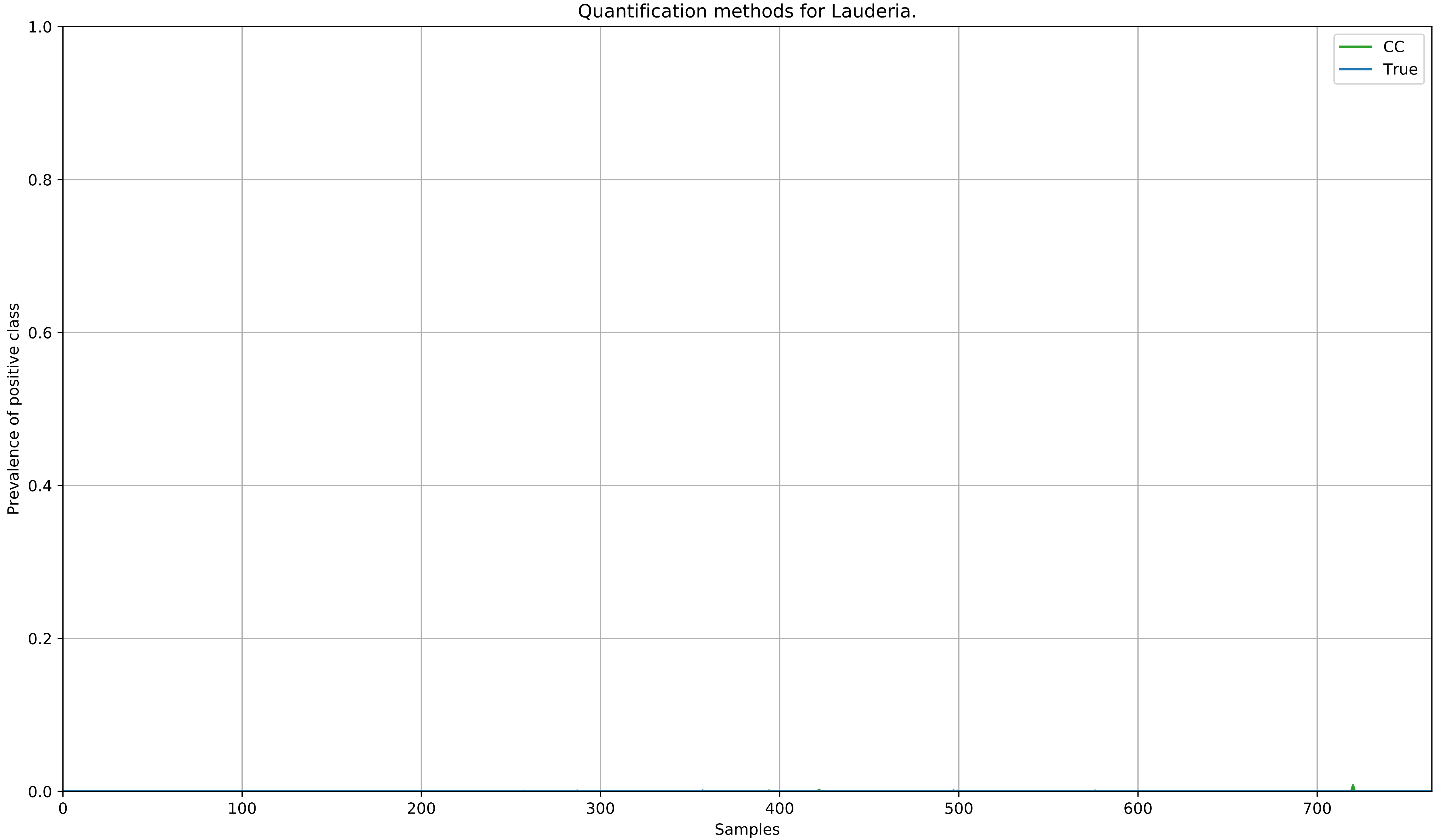

Relative absolute errors for each class
Relative absolute error without Stephanopyxis
0
50
100
150
200
250
CC
AC
PCC
PAC
HDy
Asterionellopsis
Cerataulina
Ceratium
Chaetoceros
Corethron
Coscinodiscus
Cylindrotheca
Dactyliosolen
Dictyocha
Dinobryon
Dinophysis
Ditylum
Ephemera
Eucampia
Euglena
Guinardia
Gyrodinium
Laboea
Lauderia
Leptocylindrus
Licmophora
Myrionecta
Odontella
Paralia
Phaeocystis
Pleurosigma
Prorocentrum
Pyramimonas
Rhizosolenia
Skeletonema
Stephanopyxis
Thalassionema
Thalassiosira
bad
ciliate_mix
detritus
dino30
mix_elongated
pennate
tintinnid

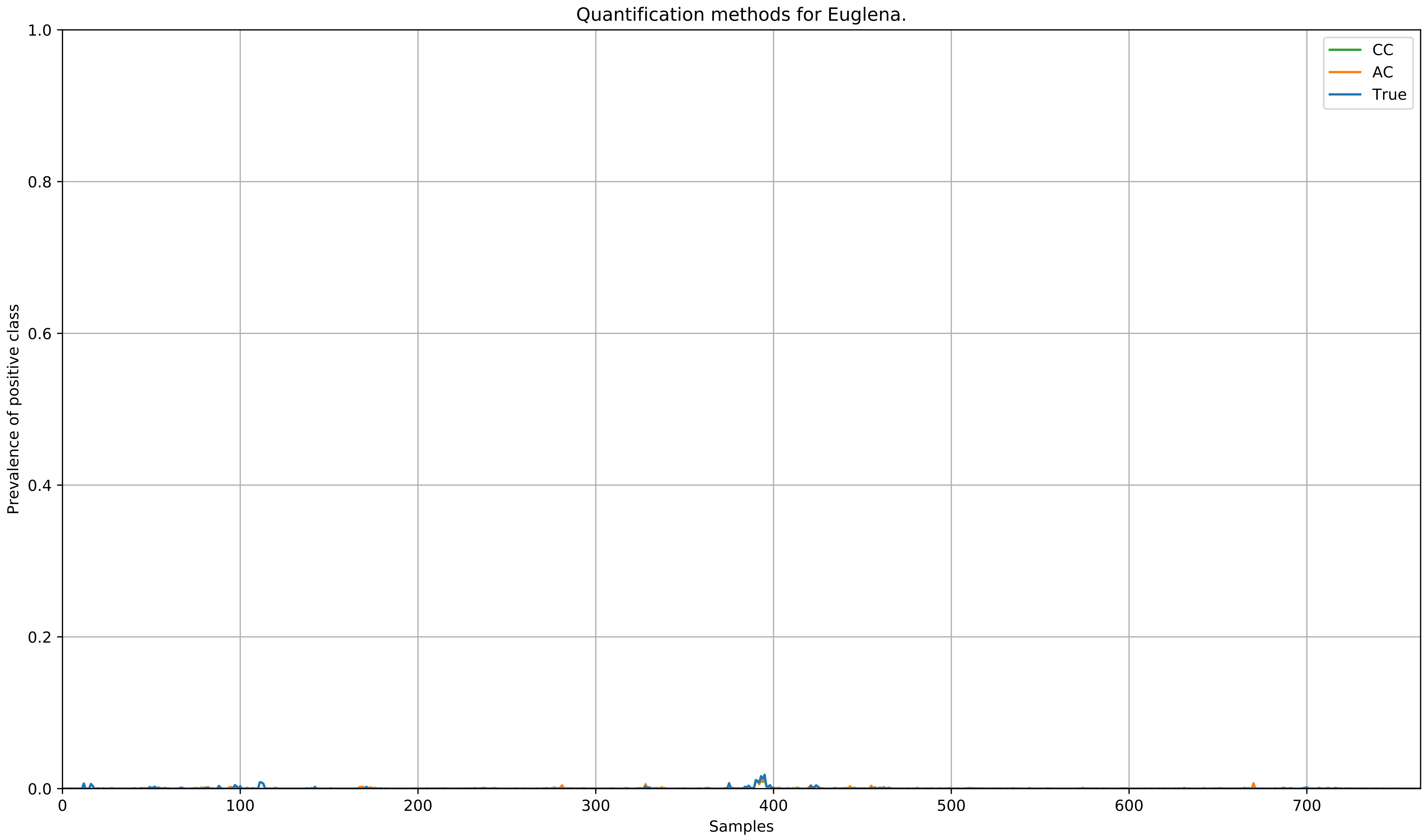

Quantification methods for Eucampia.
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
Samples
0
100
200
300
400
500
600
700
CC
True

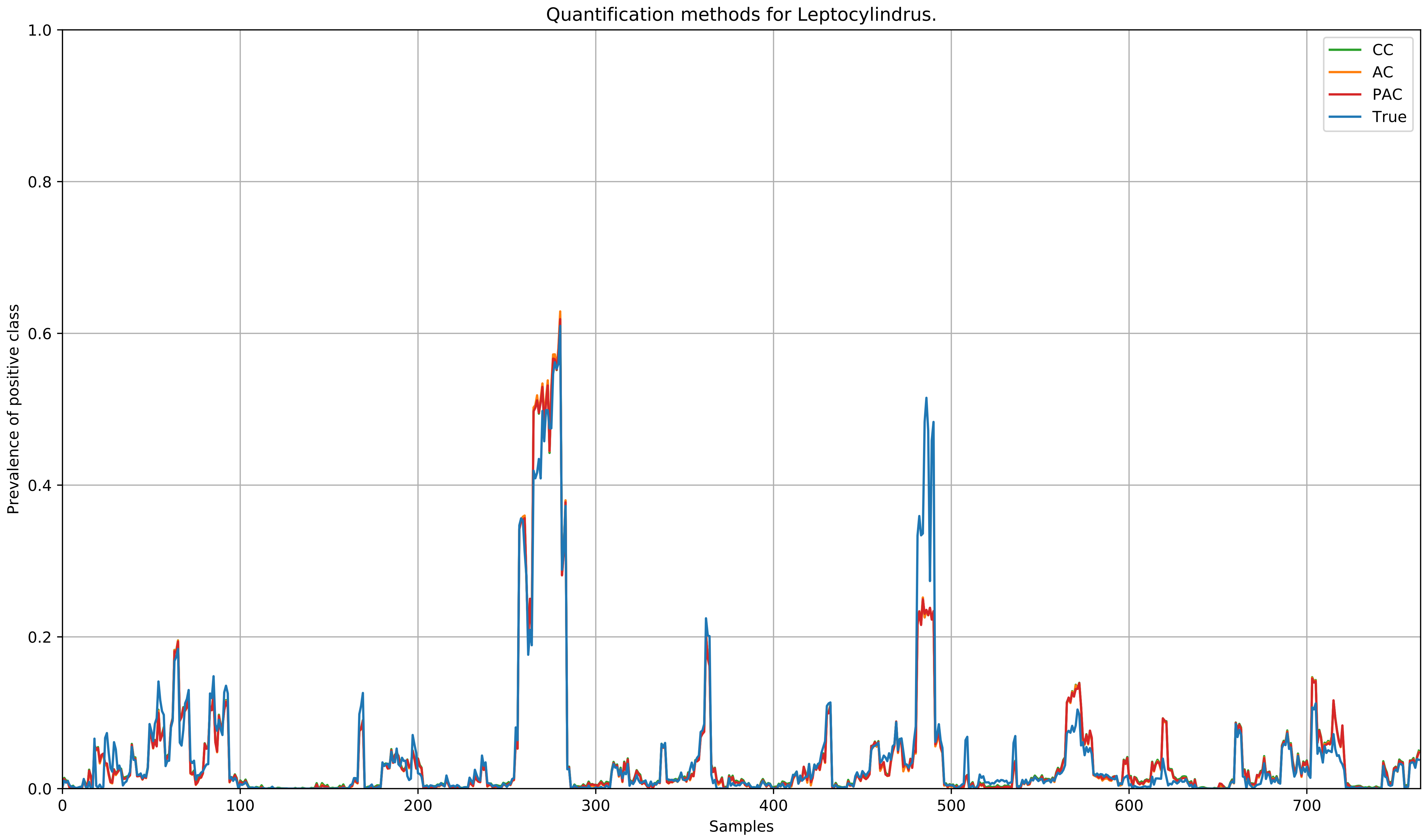

Quantification methods for Corethron.
CC
AC
True
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700

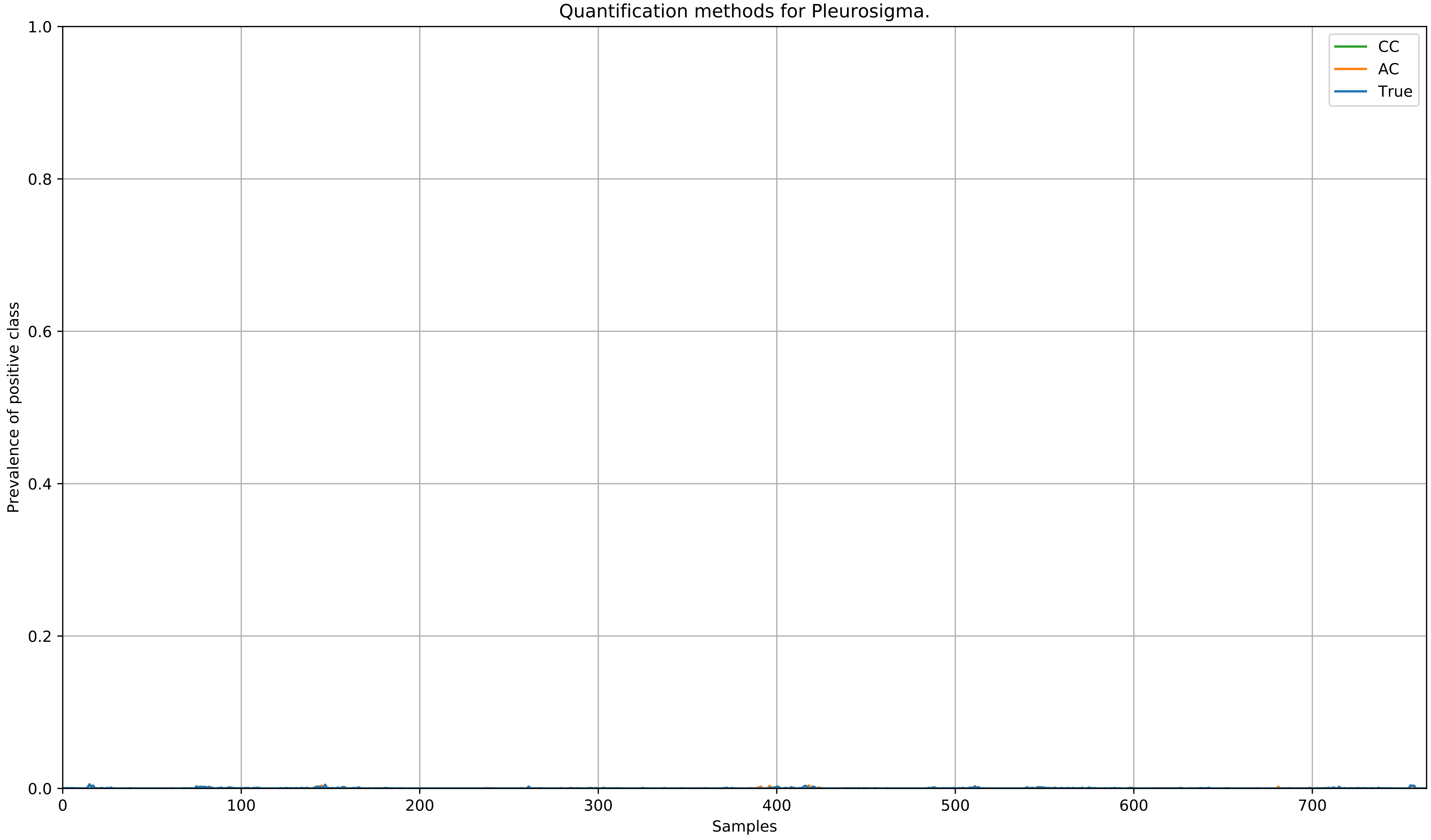

Quantification methods for Cylindrotheca.
CC
PAC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700

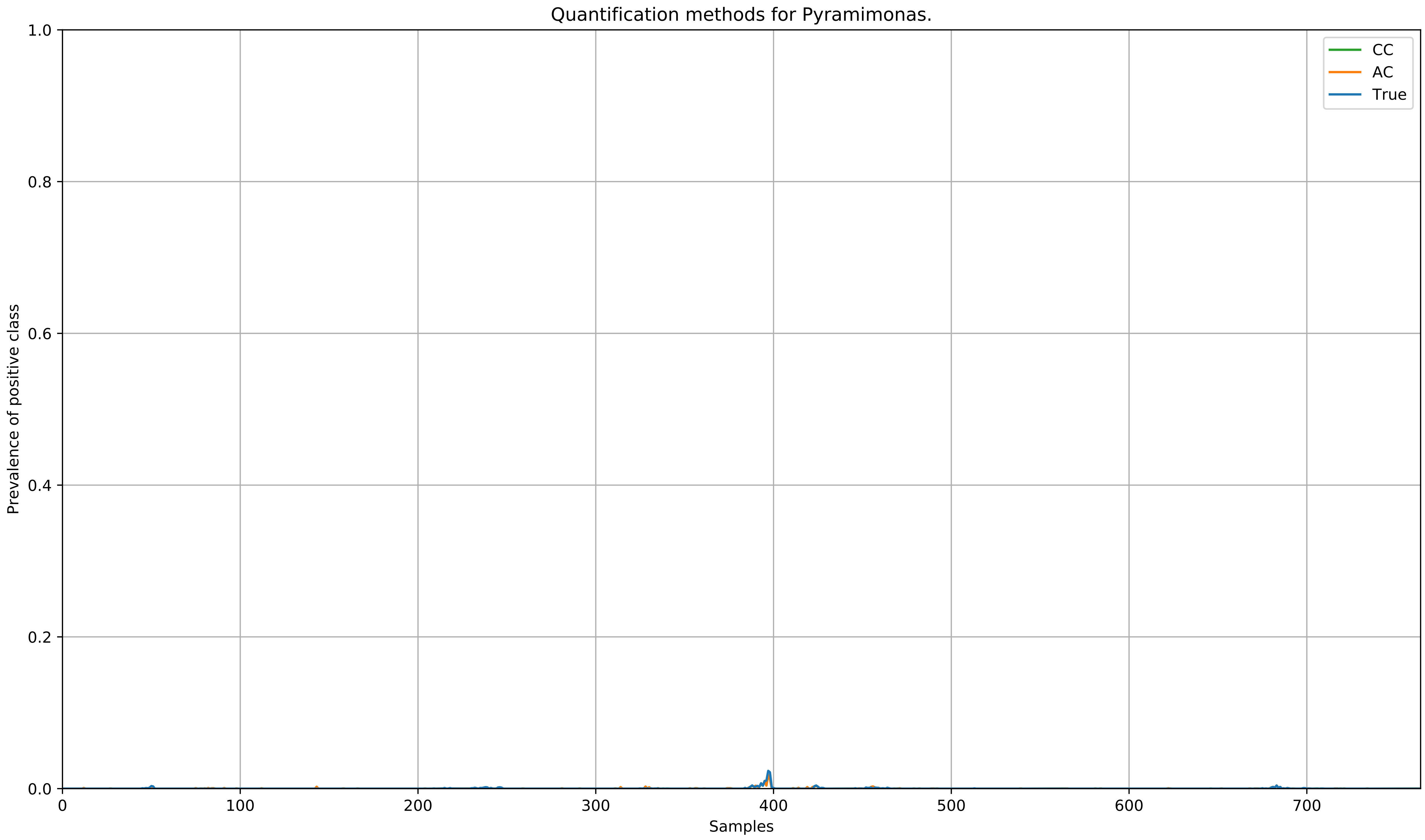

Quantification methods for Chaetoceros.
CC
AC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700

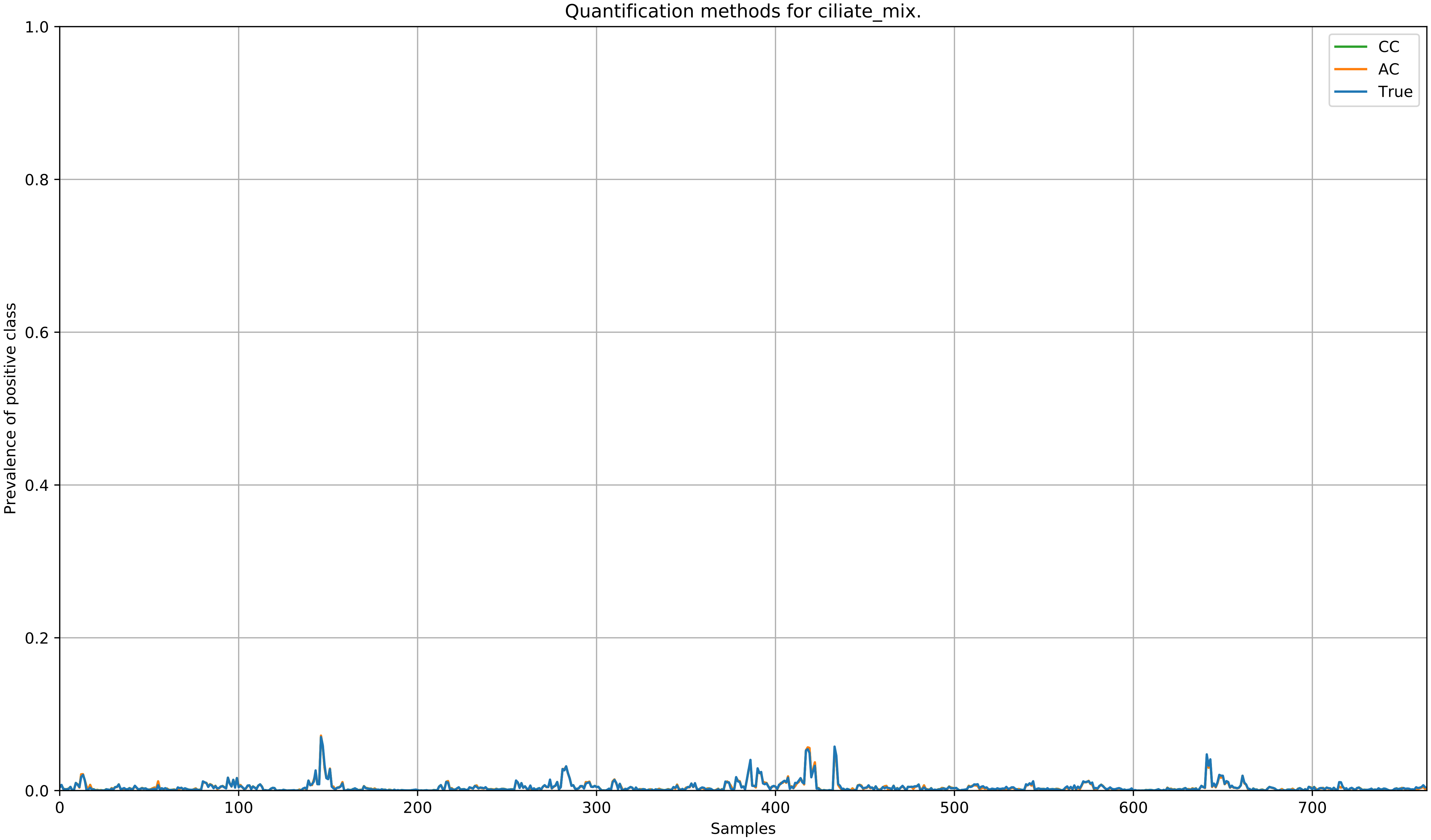

Quantification methods for Lauderia.
Prevalence of positive class
Samples
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
CC
True

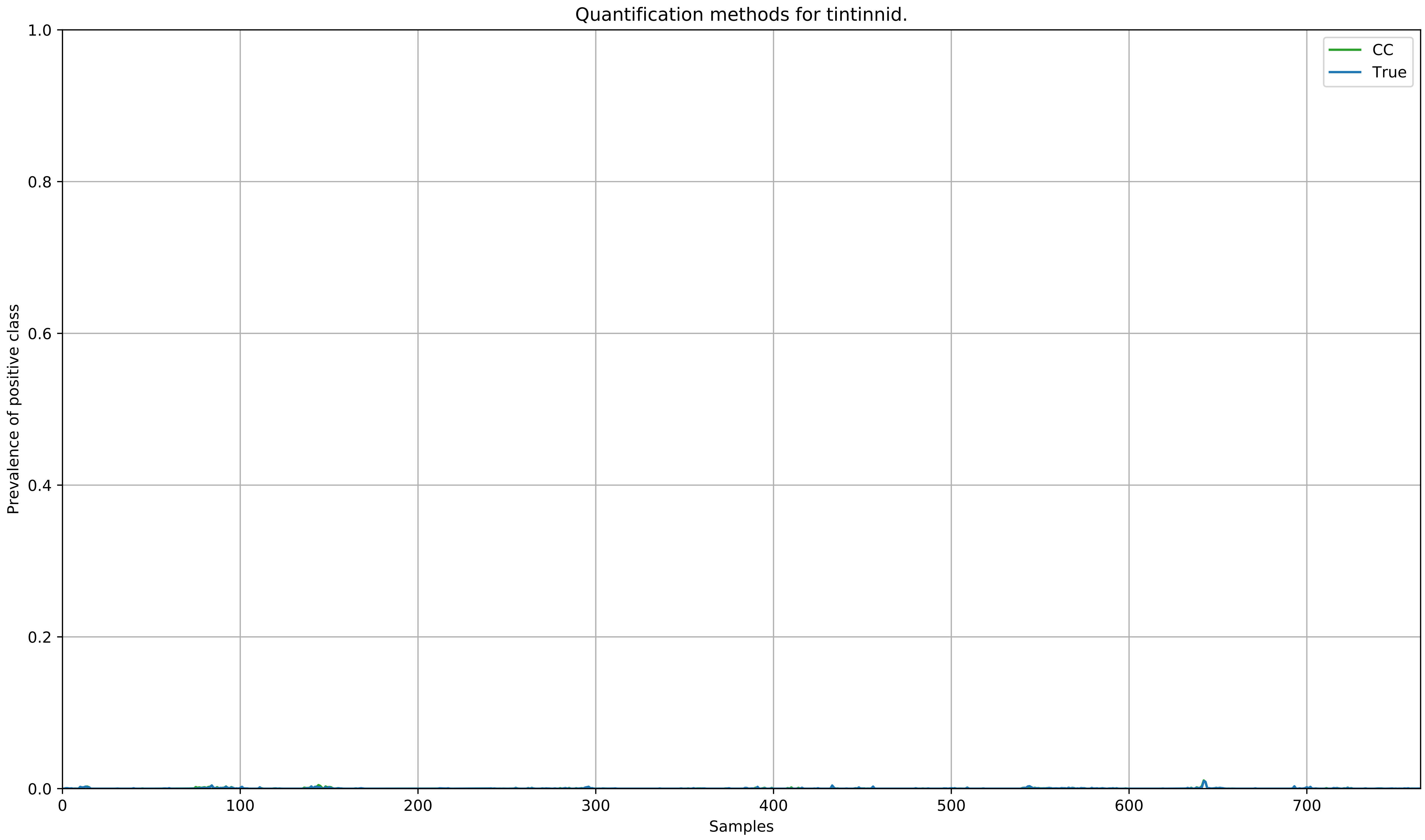

Quantification methods for Euglena.
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
CC
AC
True


Quantification methods for Leptocylindrus.
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
CC
AC
PAC
True

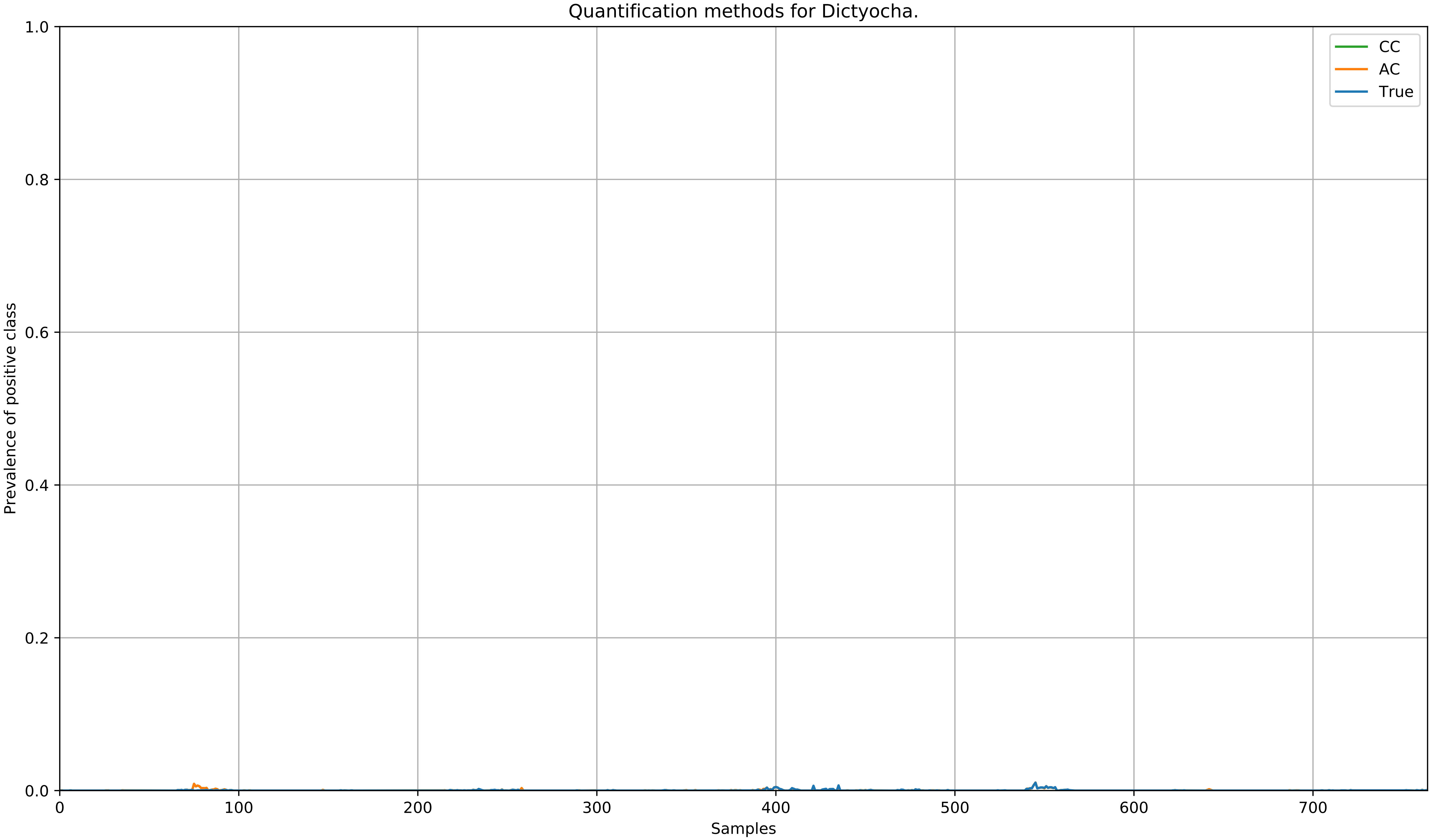

Quantification methods for Pleurosigma.
1.0
0.8
0.6
0.4
0.2
0.0
Prevalence of positive class
0
100
200
300
400
500
600
700
Samples
CC
AC
True

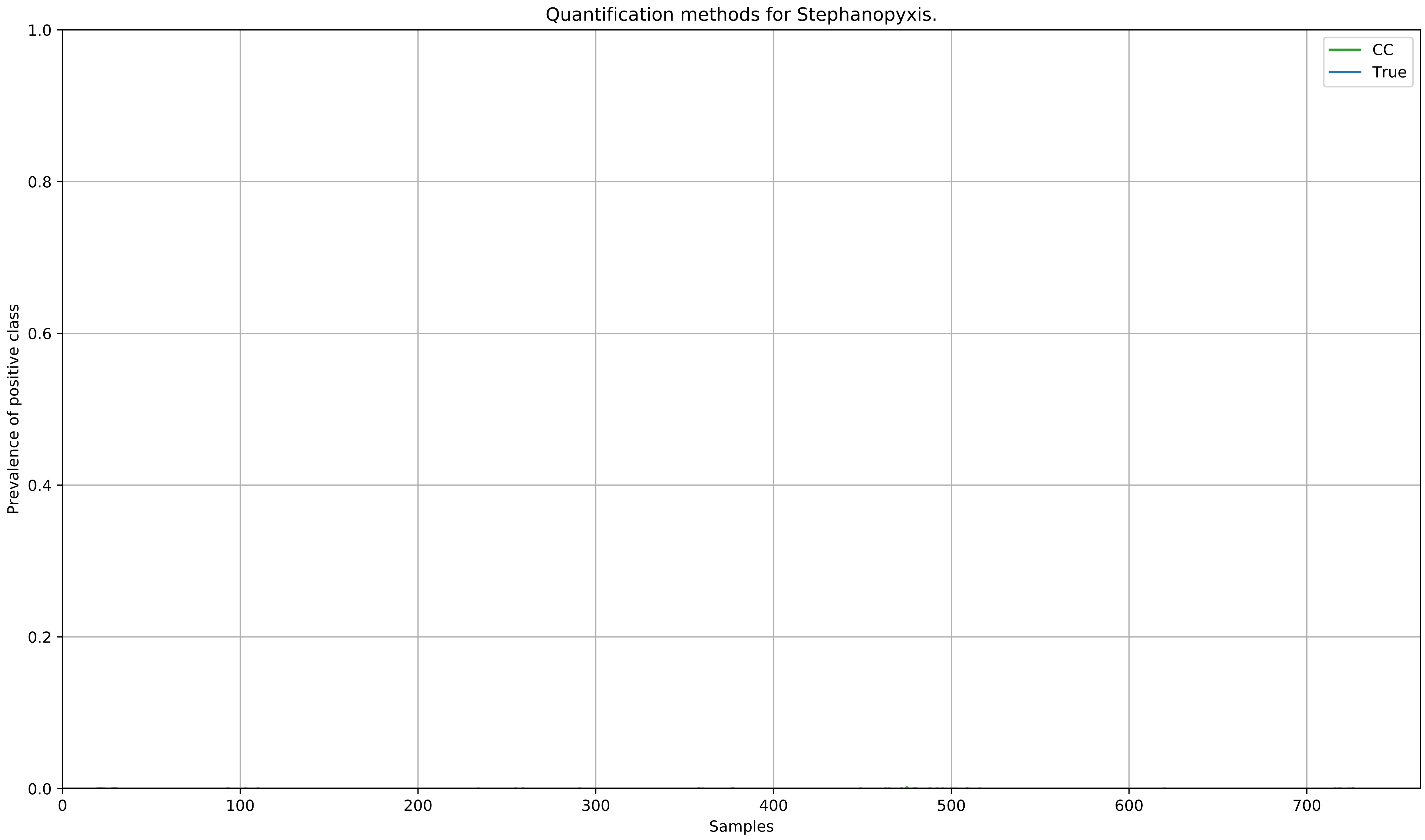

Quantification methods for Pyramimonas.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

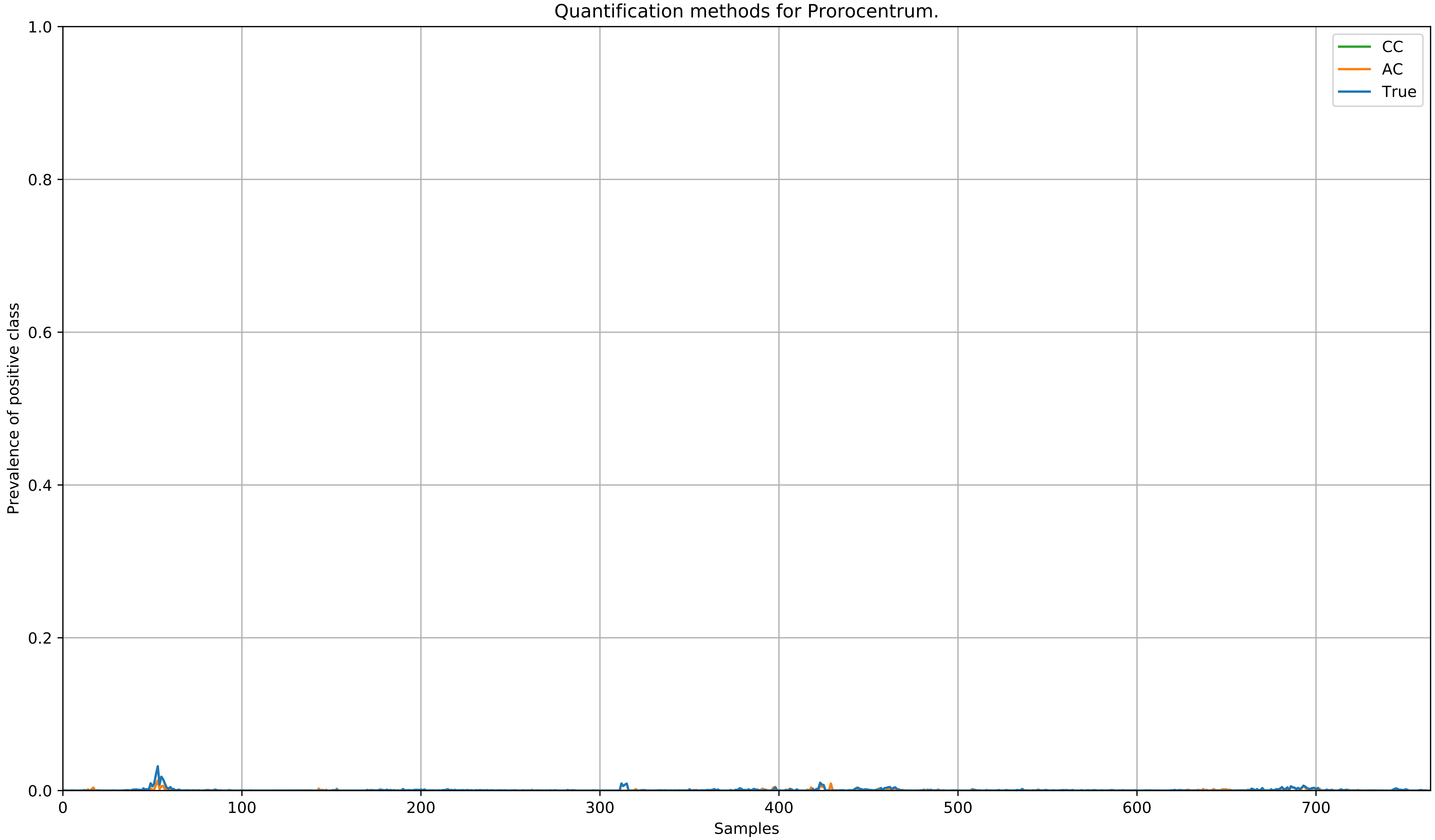

Quantification methods for ciliate_mix.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

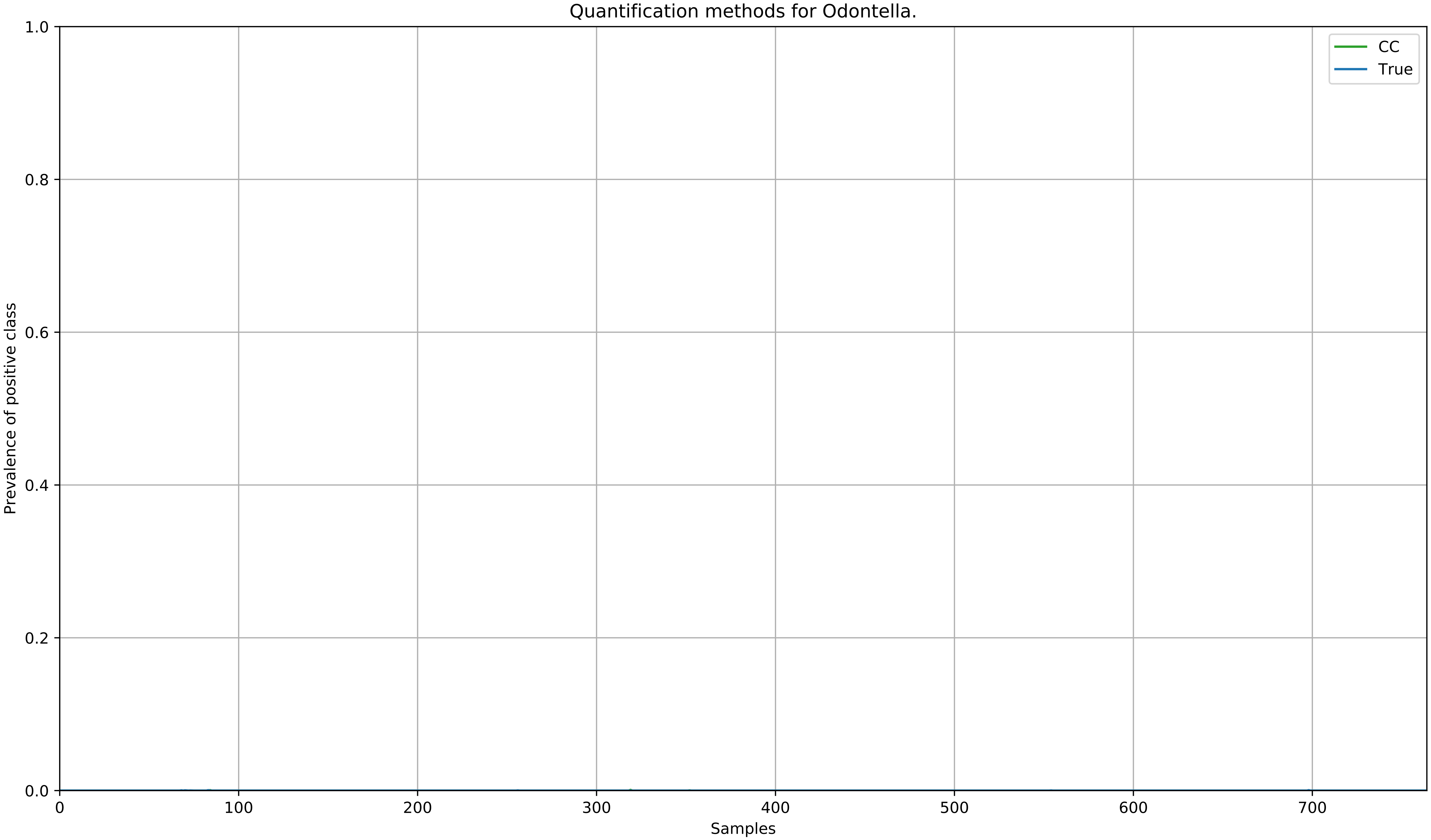


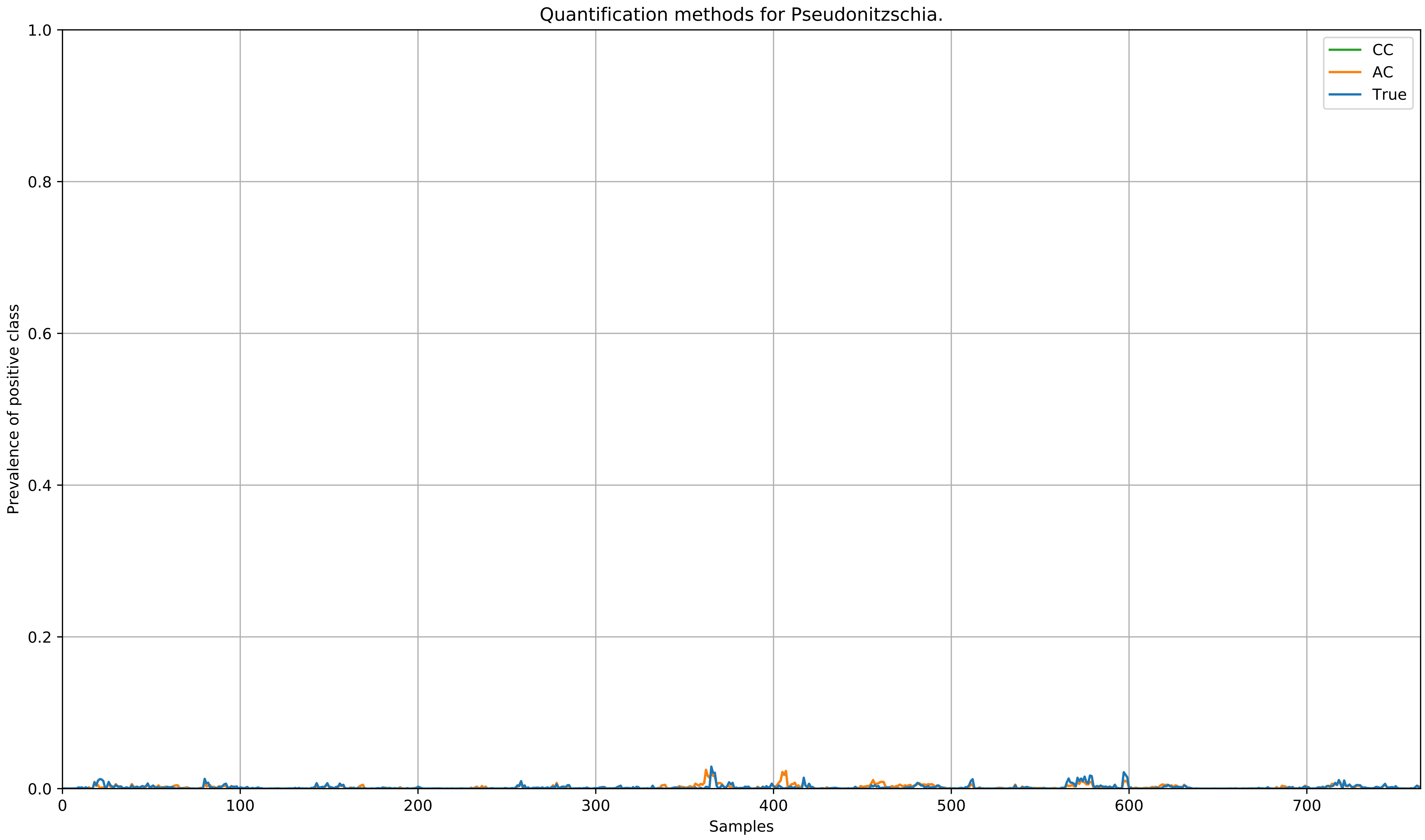
Quantification methods for tintinnid.
CC
True
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700

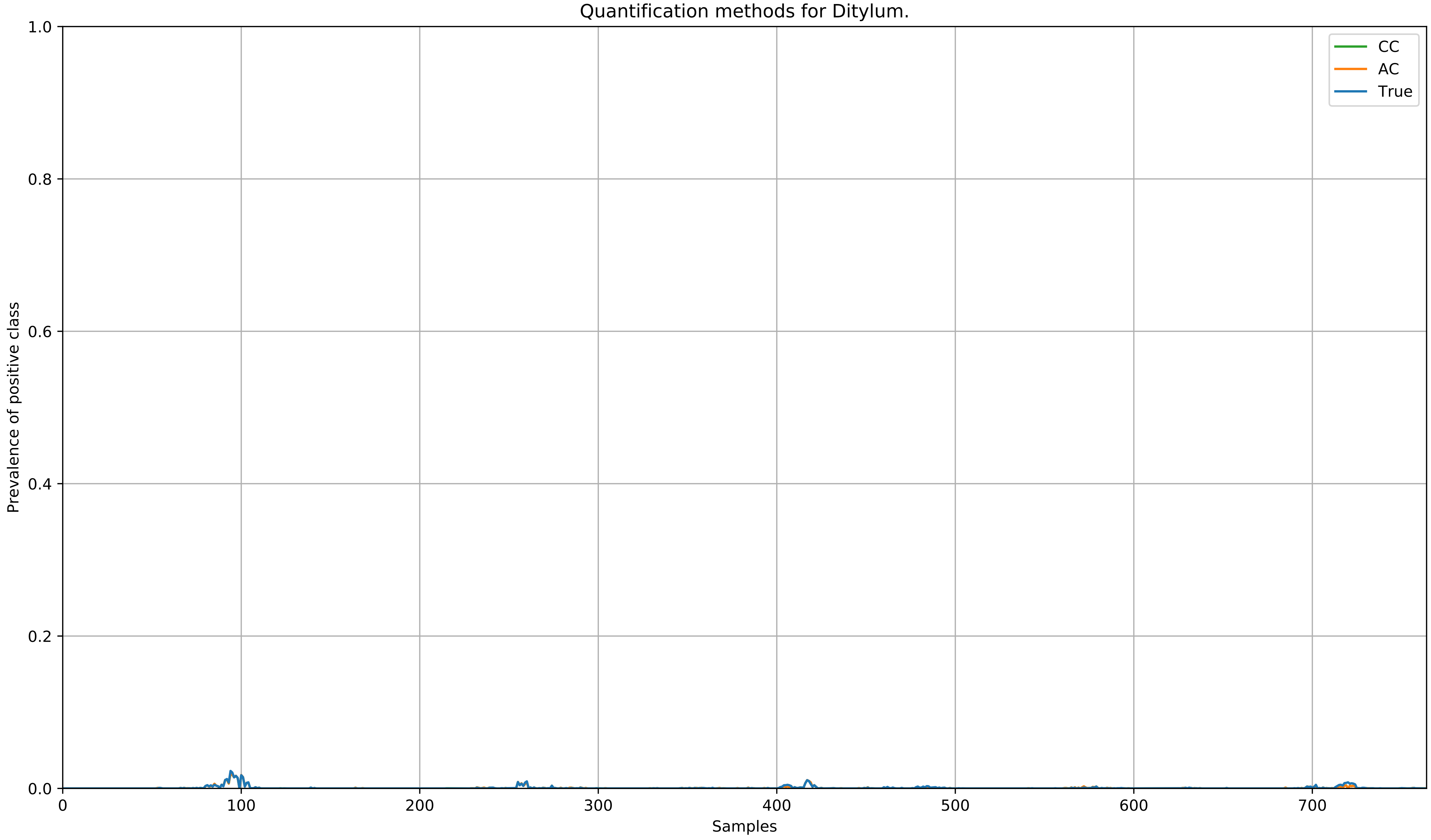

Quantification methods for Dictyocha.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

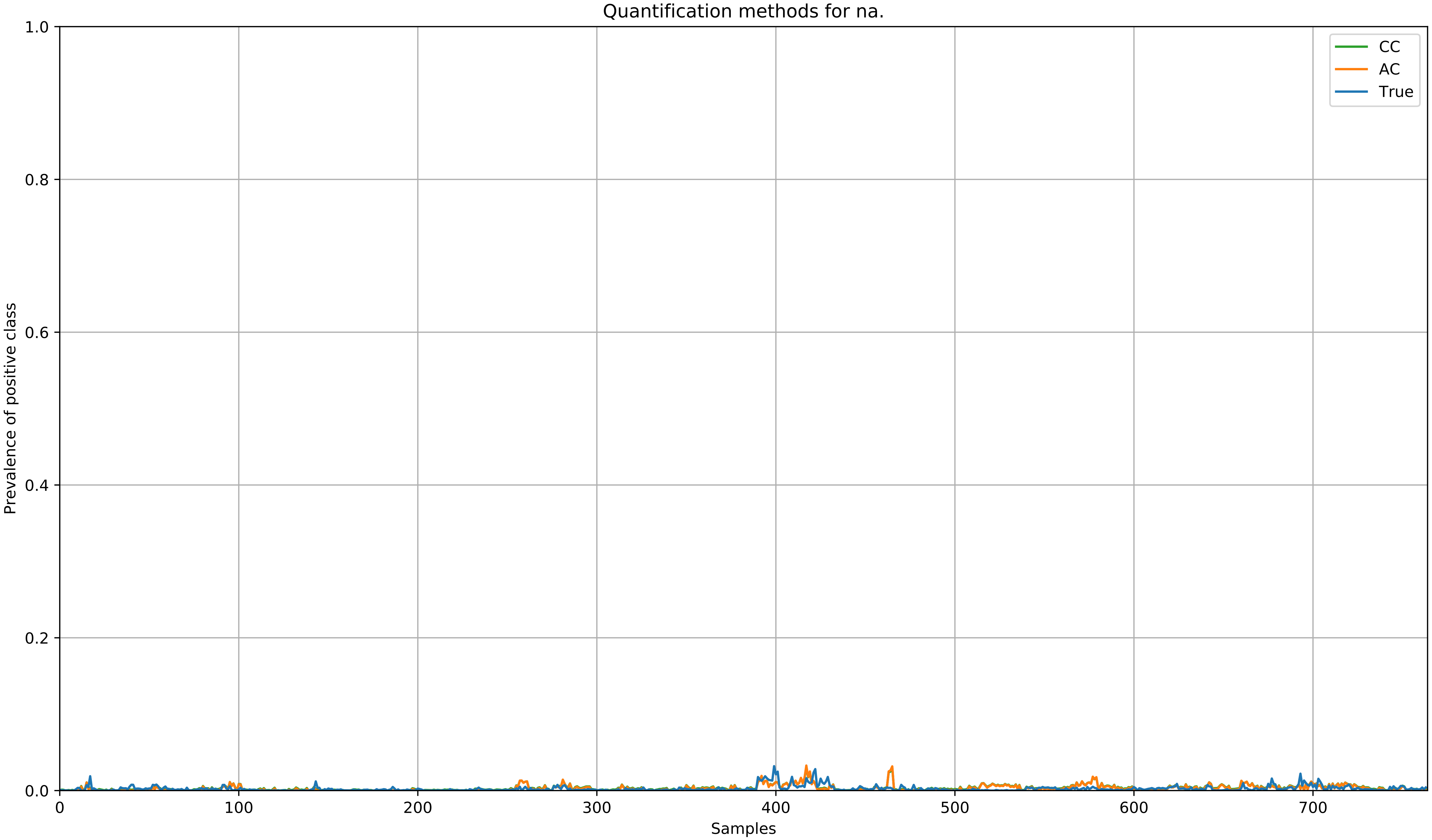

Quantification methods for Stephanopyxis.
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
CC
True

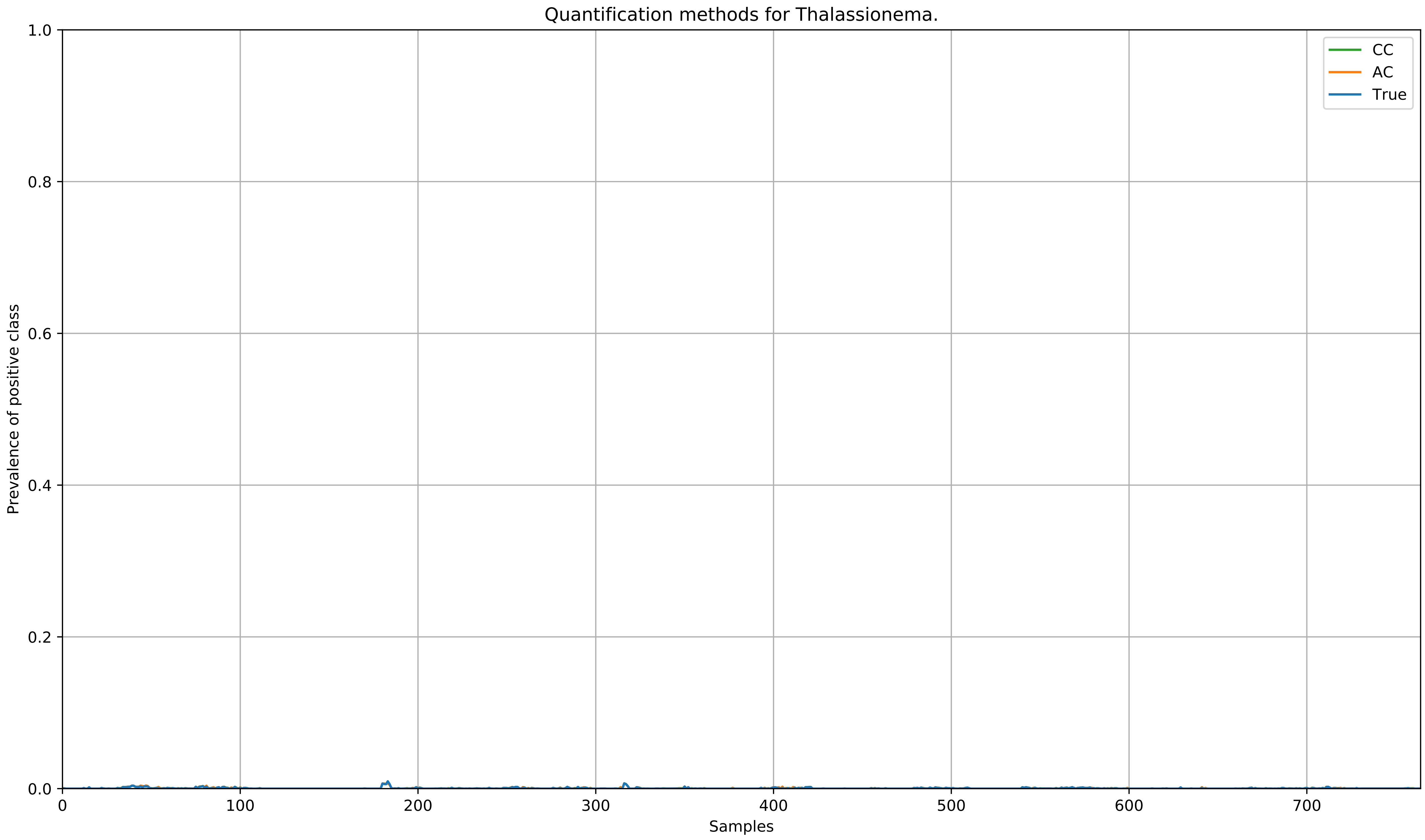

Quantification methods for Prorocentrum.
CC
AC
True
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700

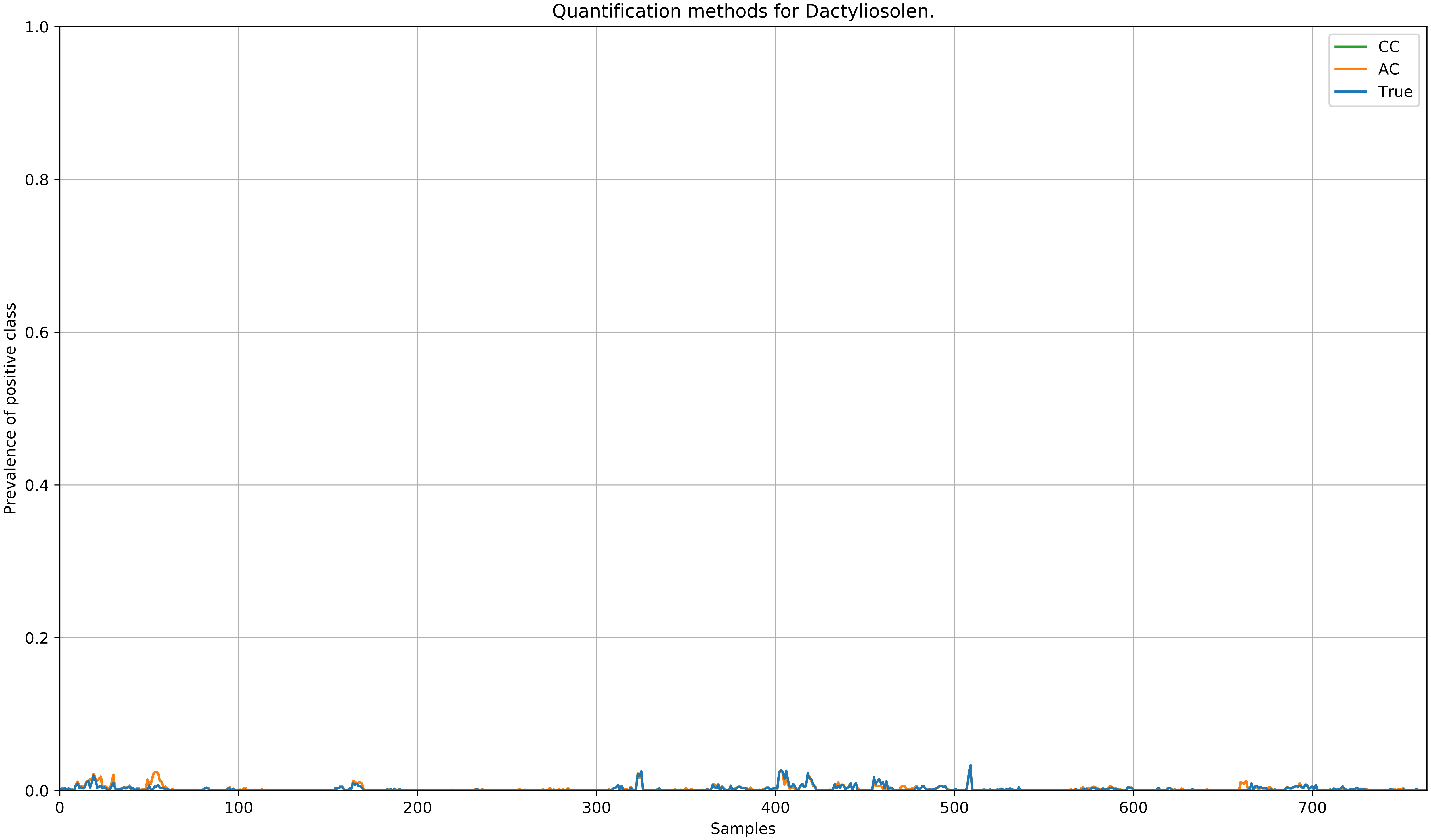

Quantification methods for Odontella.
CC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

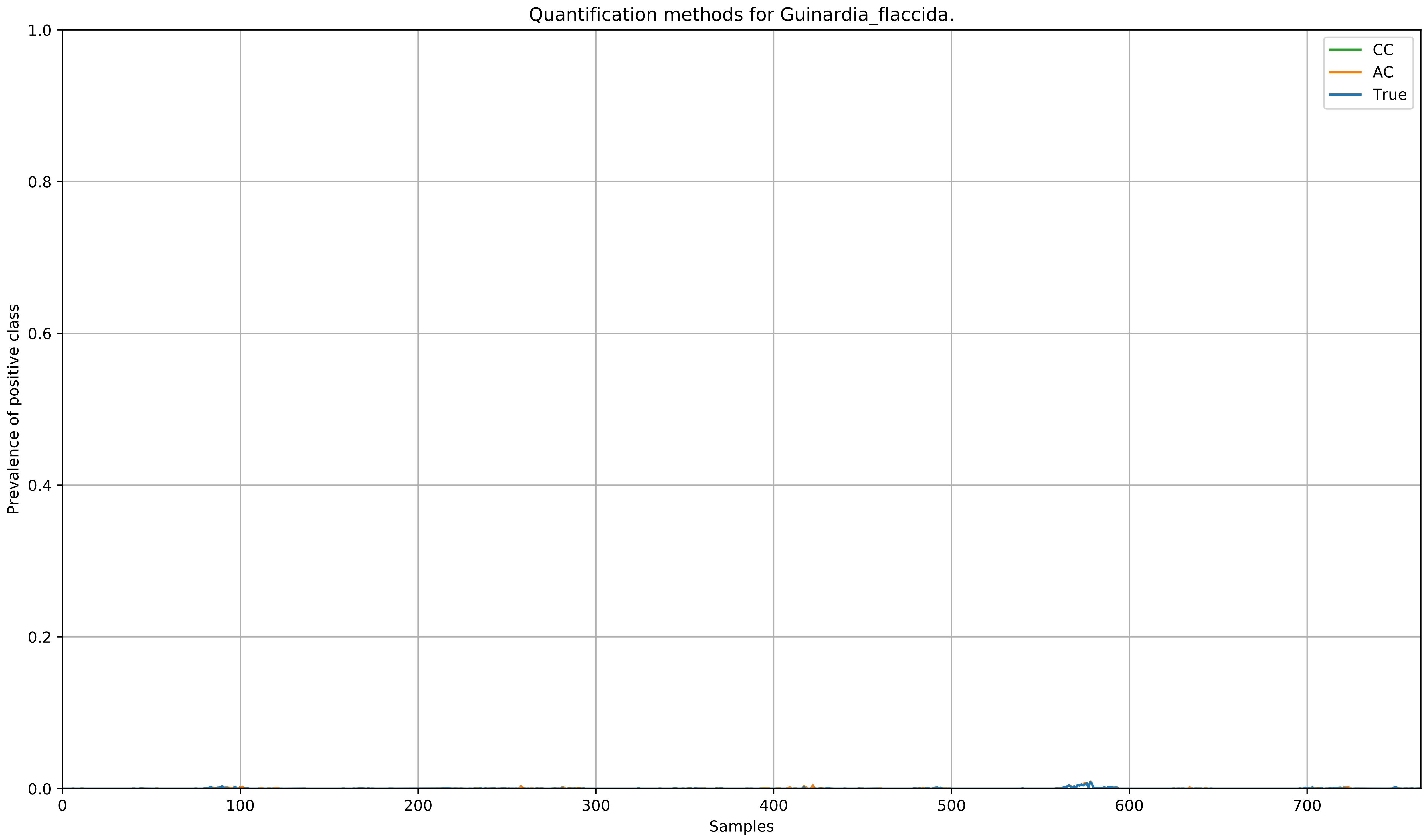

Quantification methods for Pseudonitzschia.
1.0
0.8
0.6
0.4
0.2
0.0
Prevalence of positive class
0
100
200
300
400
500
600
700
Samples
CC
AC
True

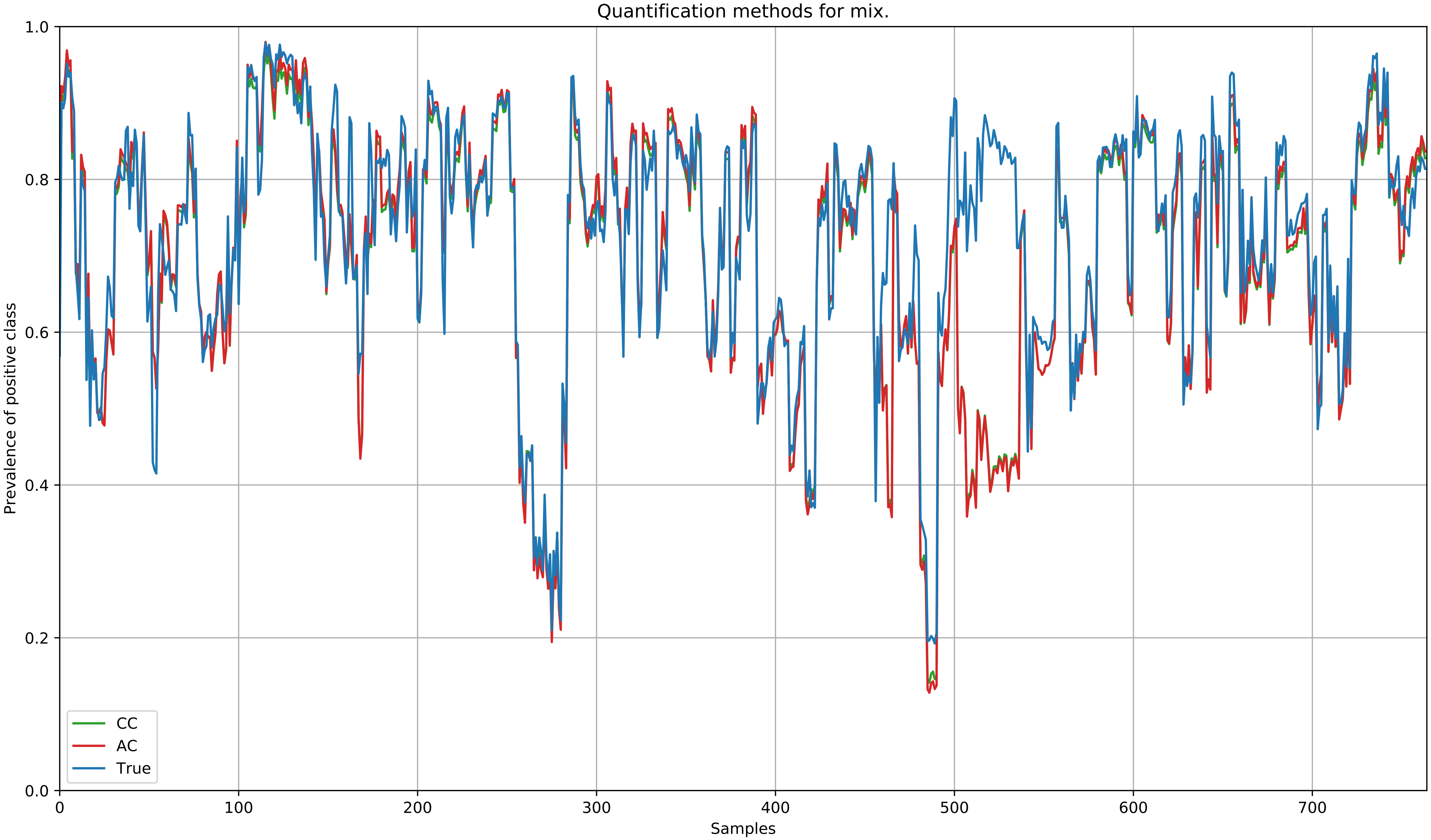

Quantification methods for Ditylum.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

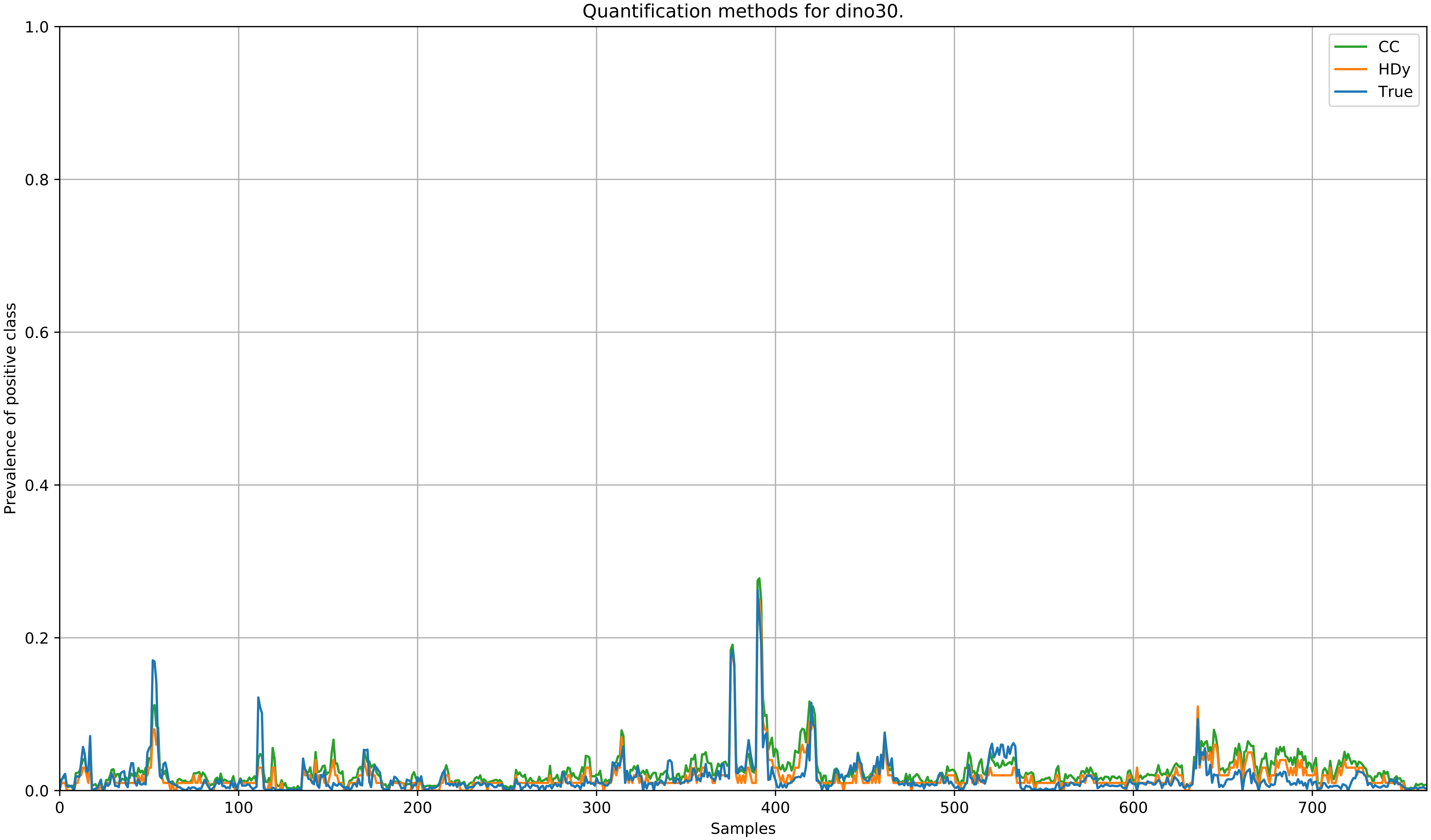

Quantification methods for na.
Prevalence of positive class
Samples
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
CC
AC
True

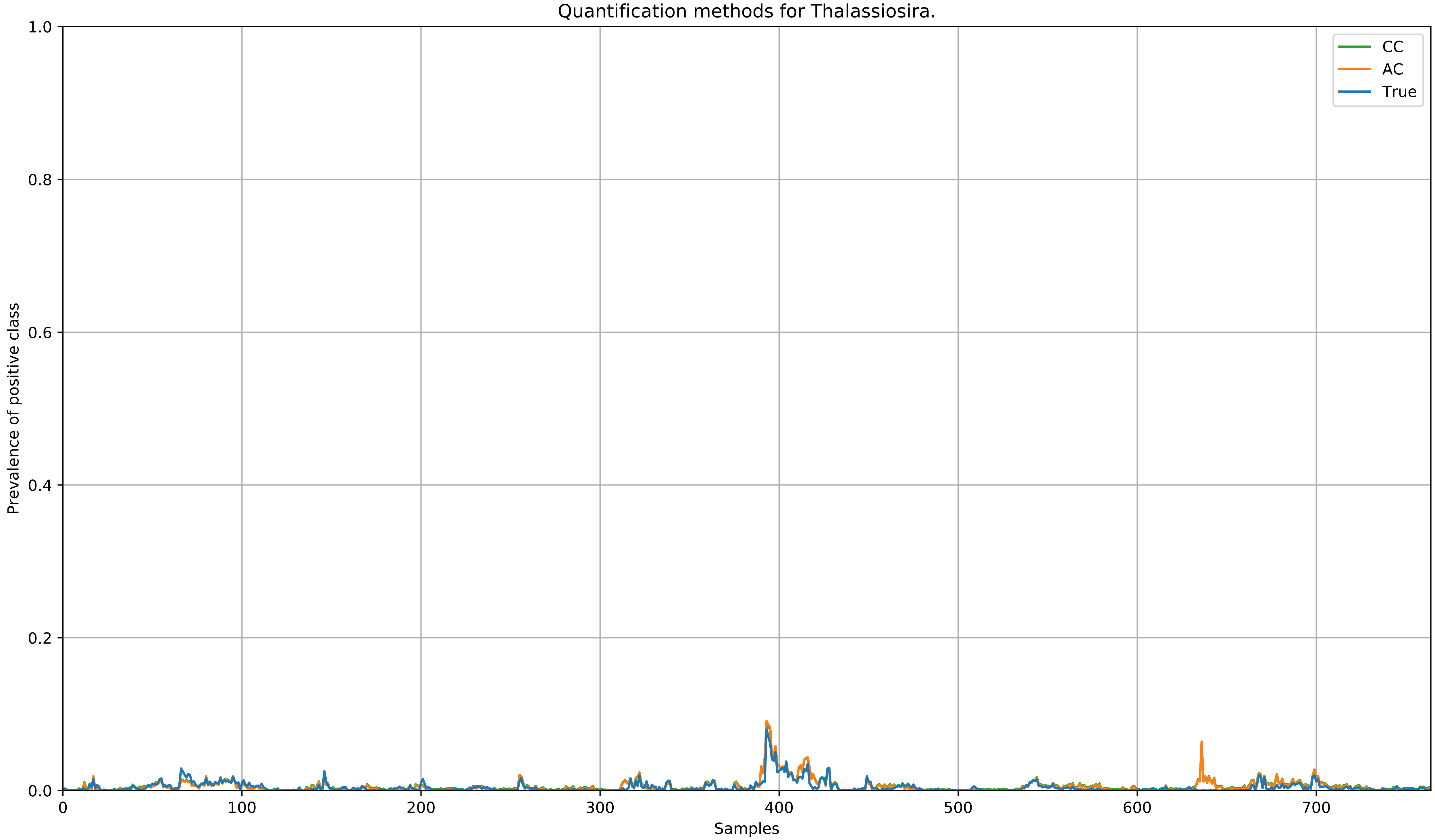

Quantification methods for Thalassionema.
CC
AC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
Samples

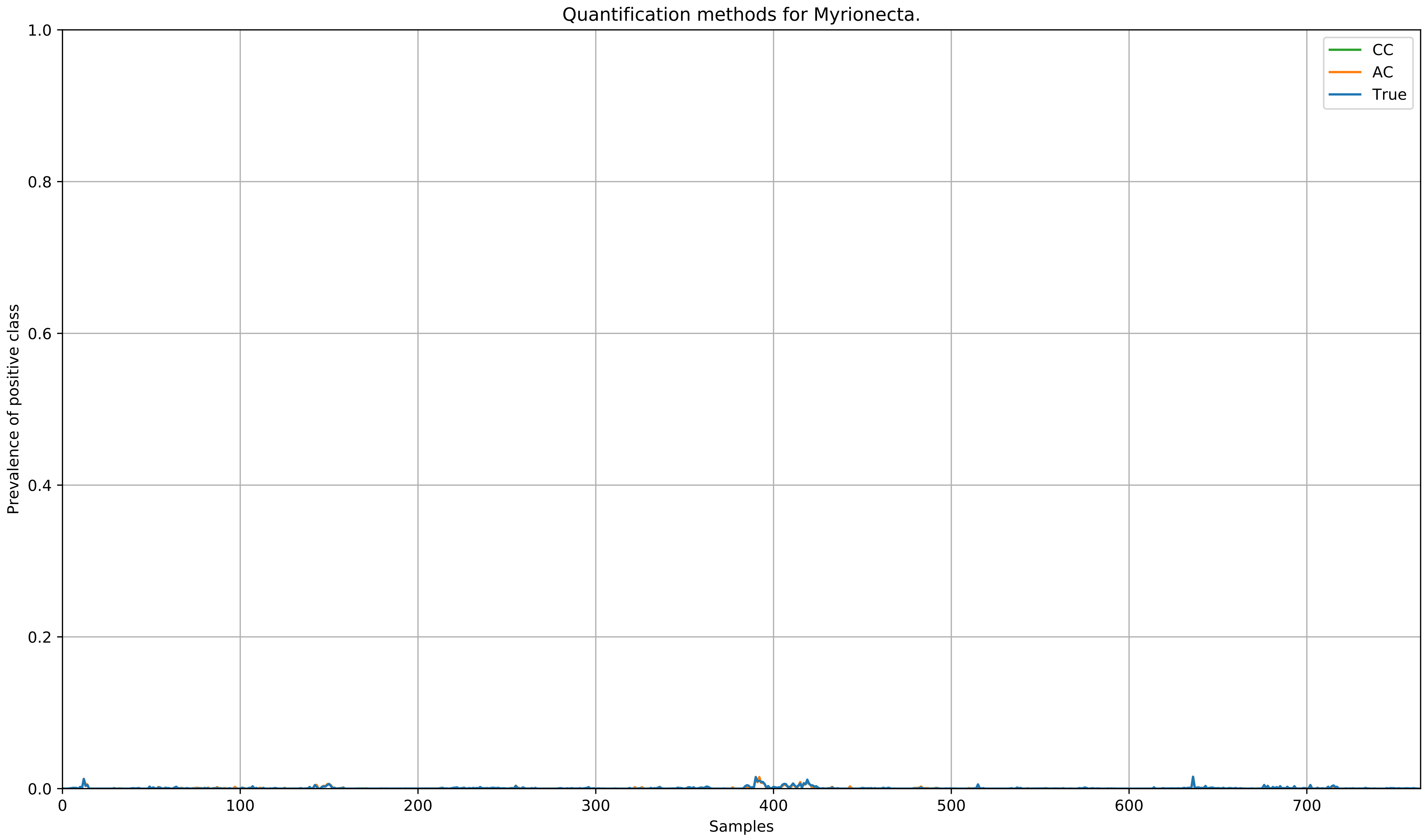

Quantification methods for Dactyliosolen.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

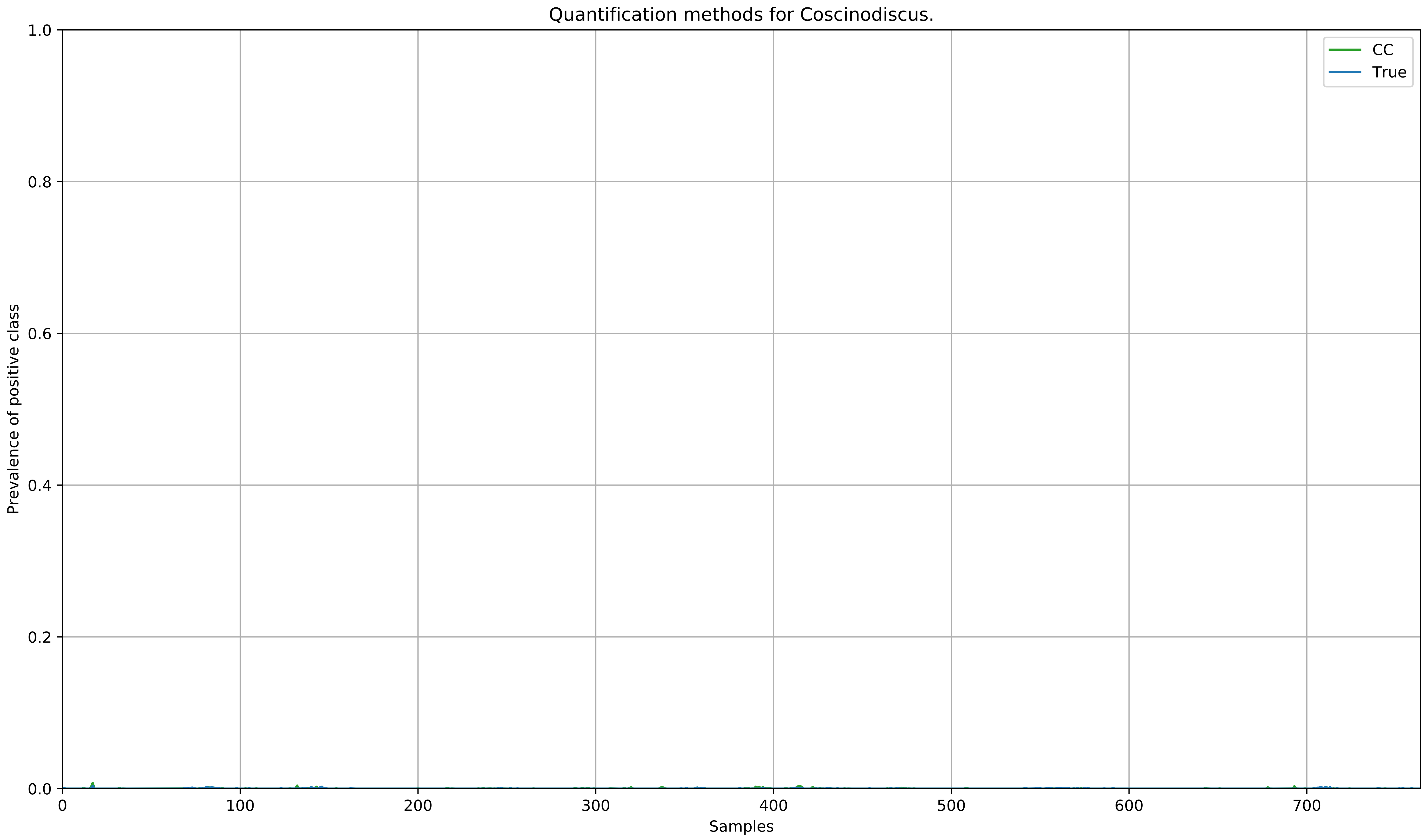

Quantification methods for Guinardia_flaccida.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples


Quantification methods for mix.
1.0
0.8
0.6
0.4
0.2
0.0
Prevalence of positive class
0
100
200
300
400
500
600
700
Samples
CC
AC
True

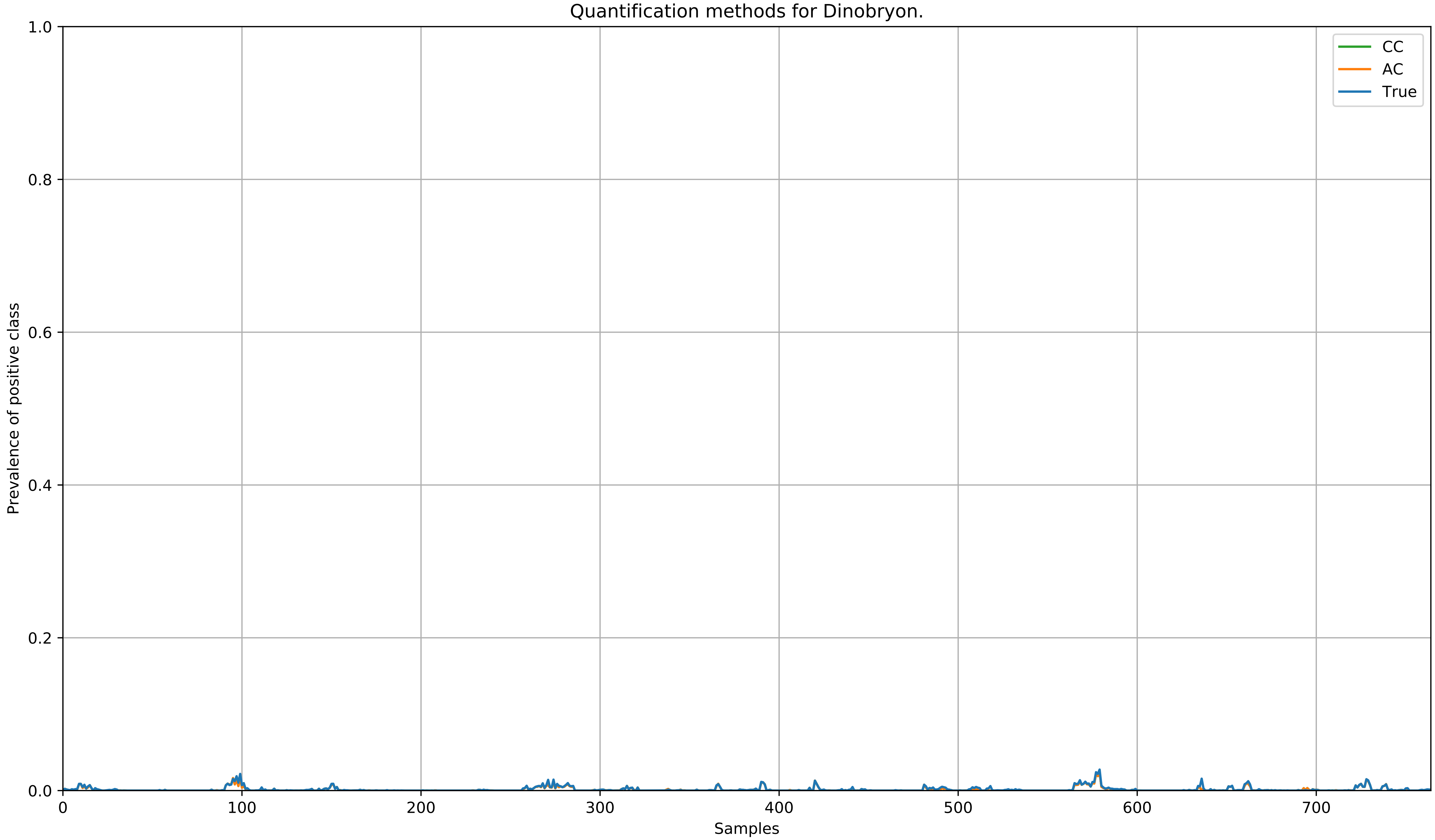

Quantification methods for dino30.
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
CC
HDy
True

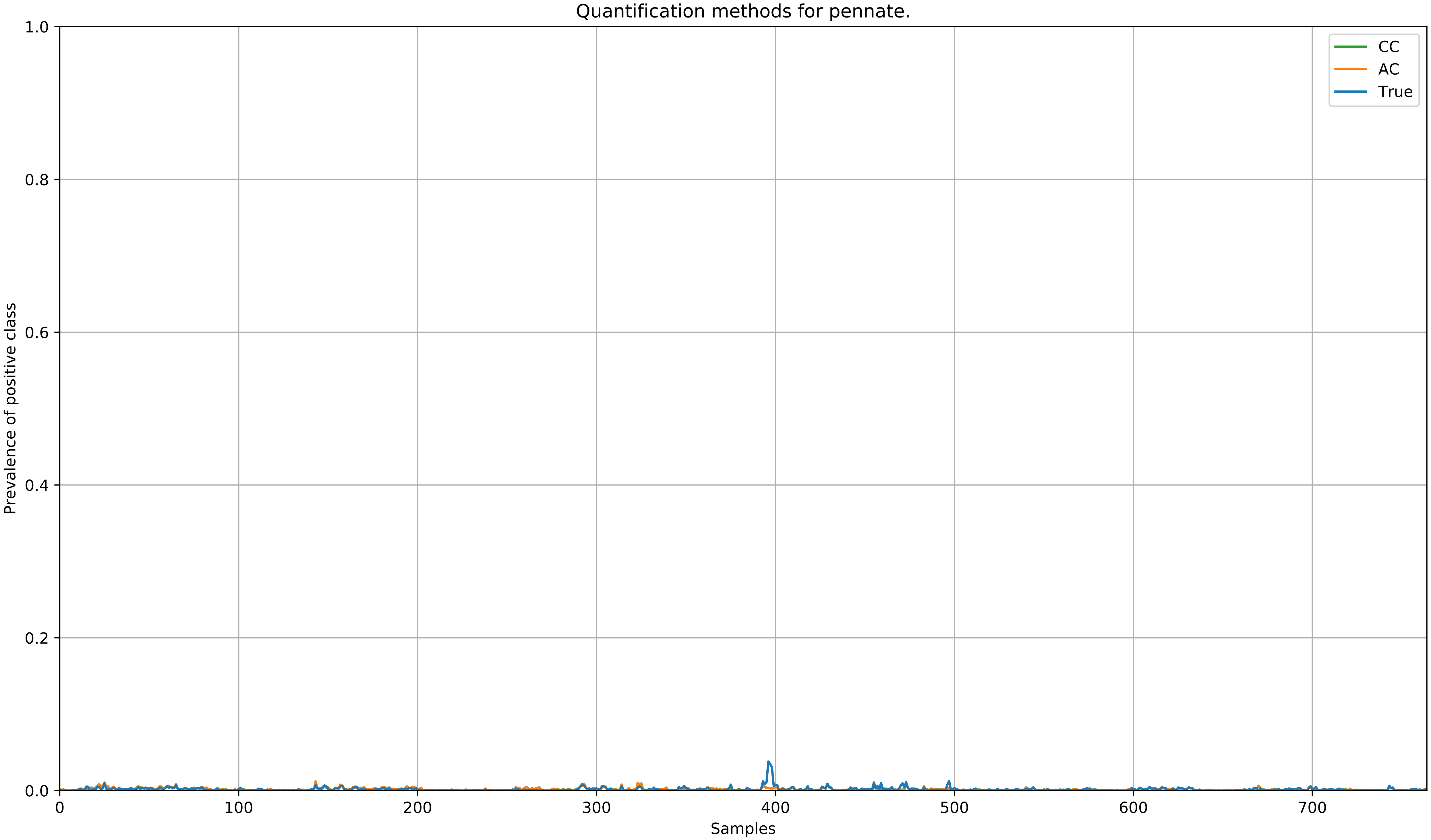

Quantification methods for Thalassiosira.
CC
AC
True
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700

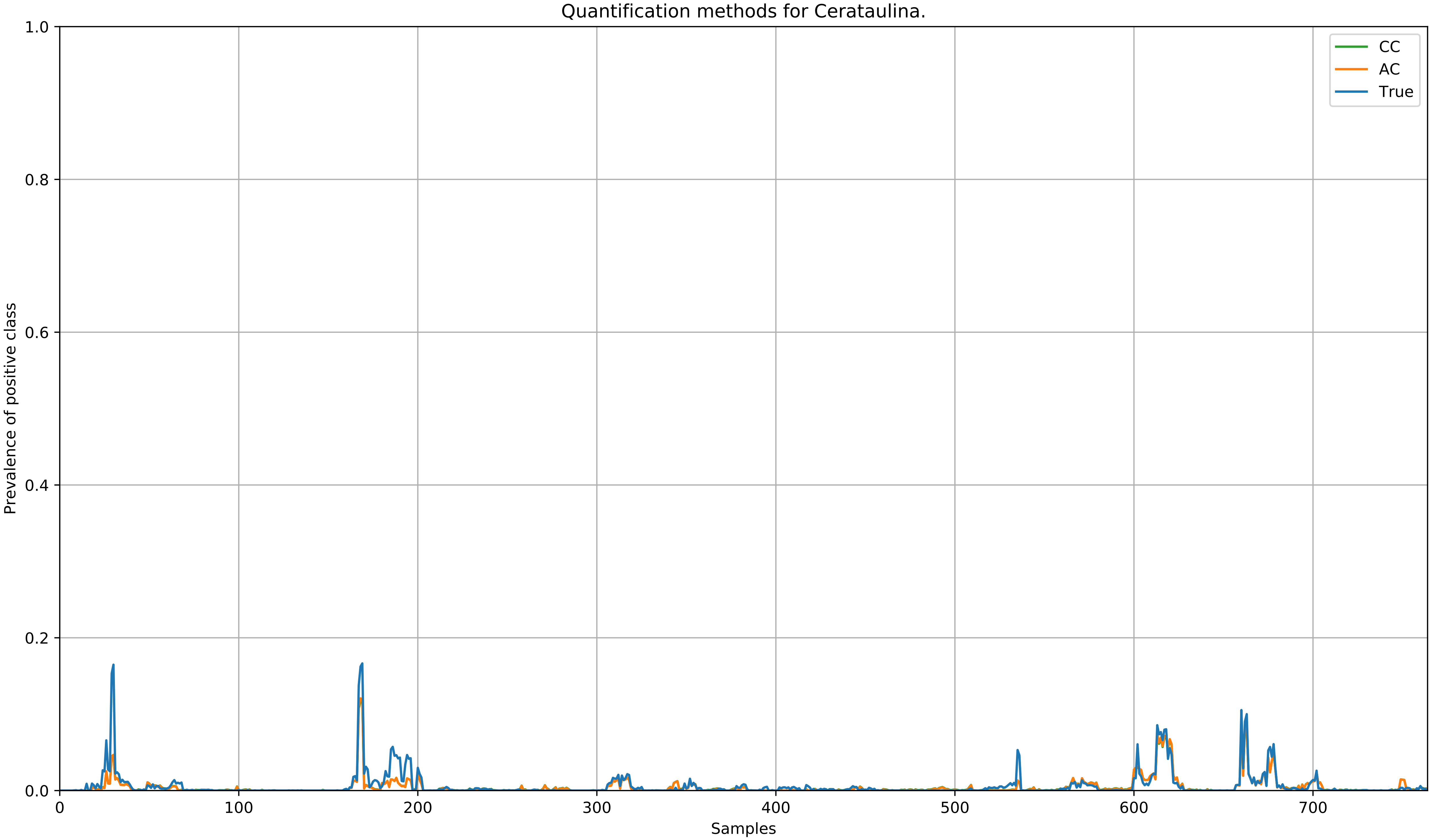

Quantification methods for Myrionecta.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

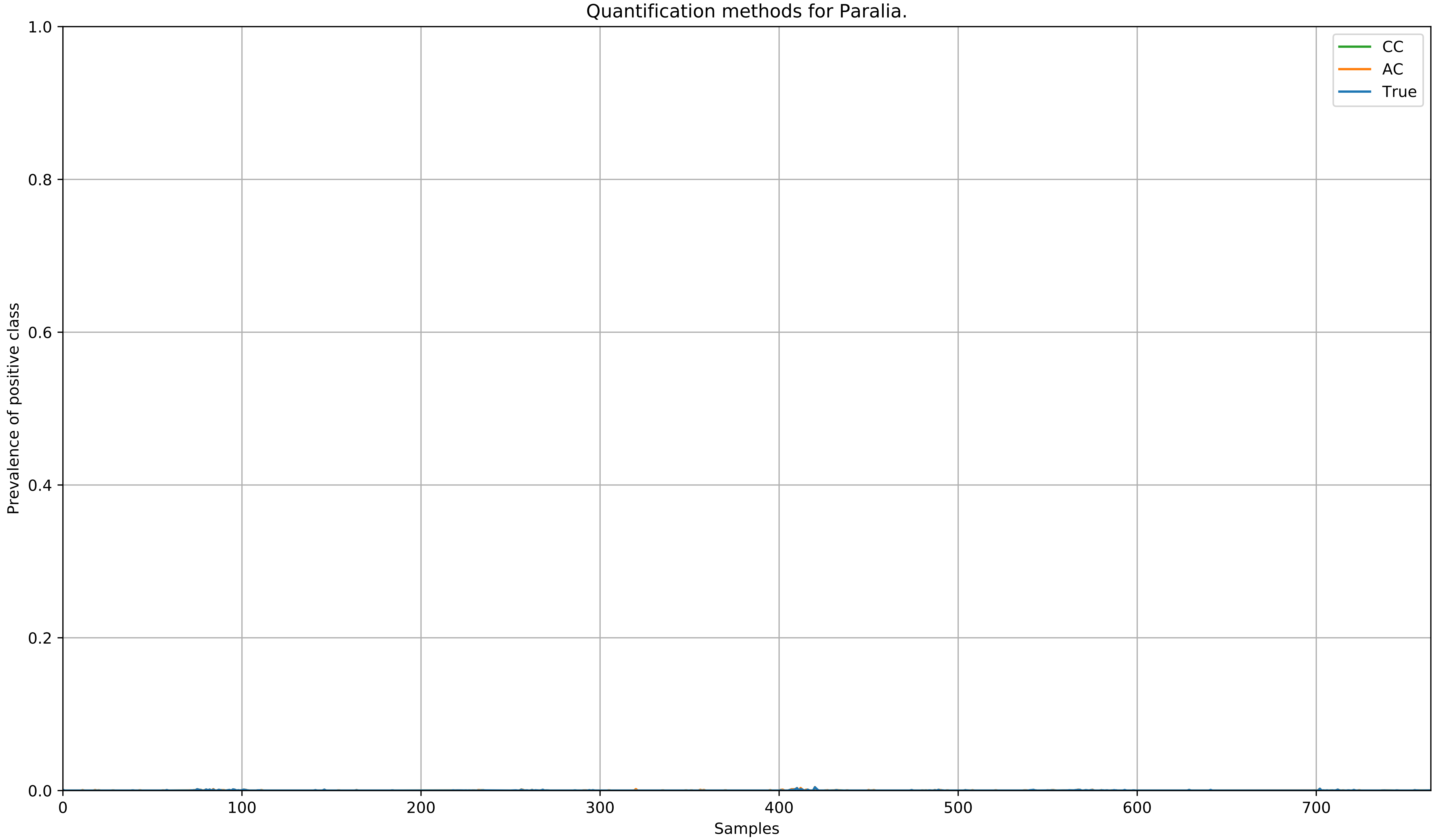


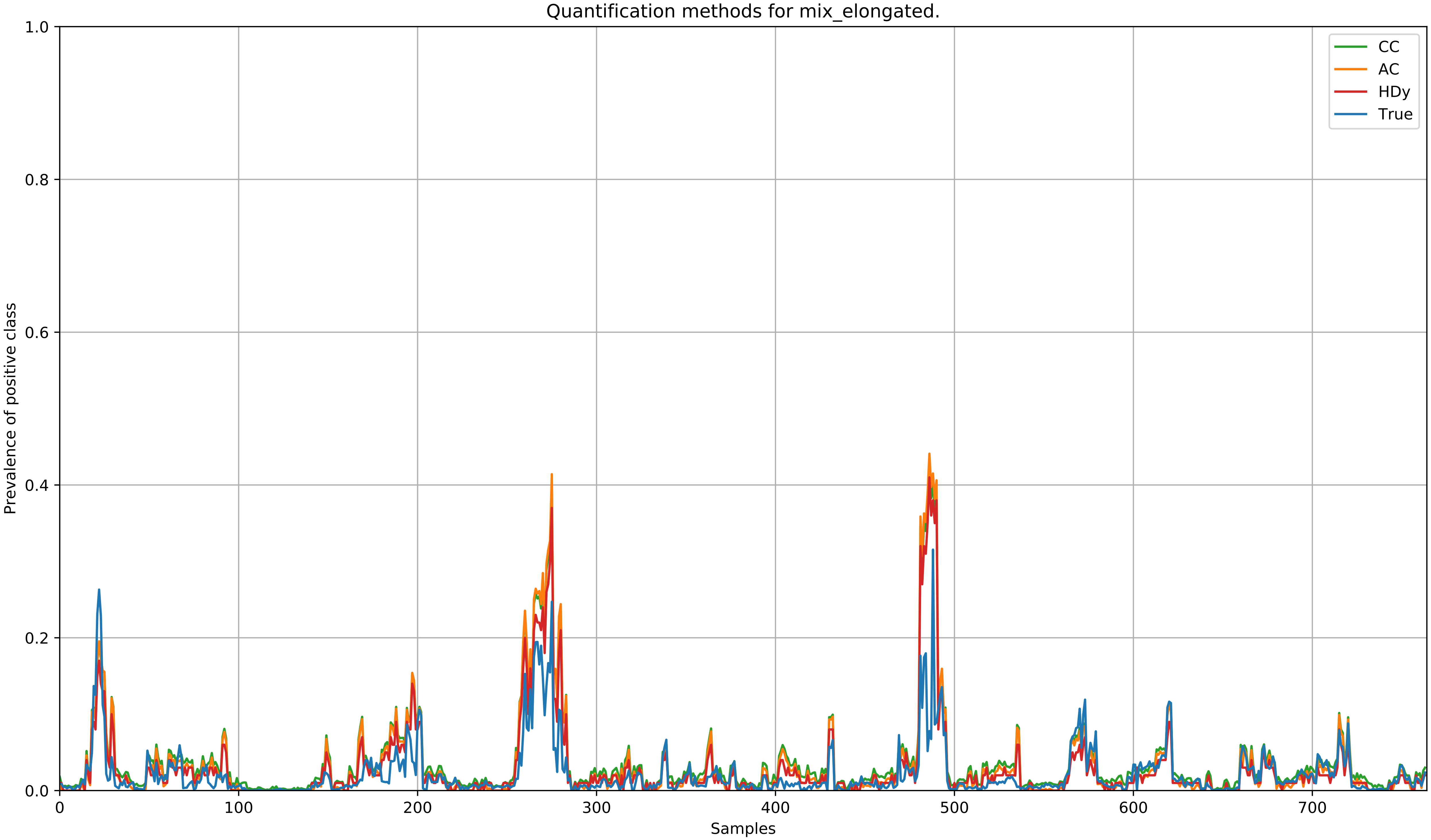
Quantification methods for Coscinodiscus.
CC
True
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700

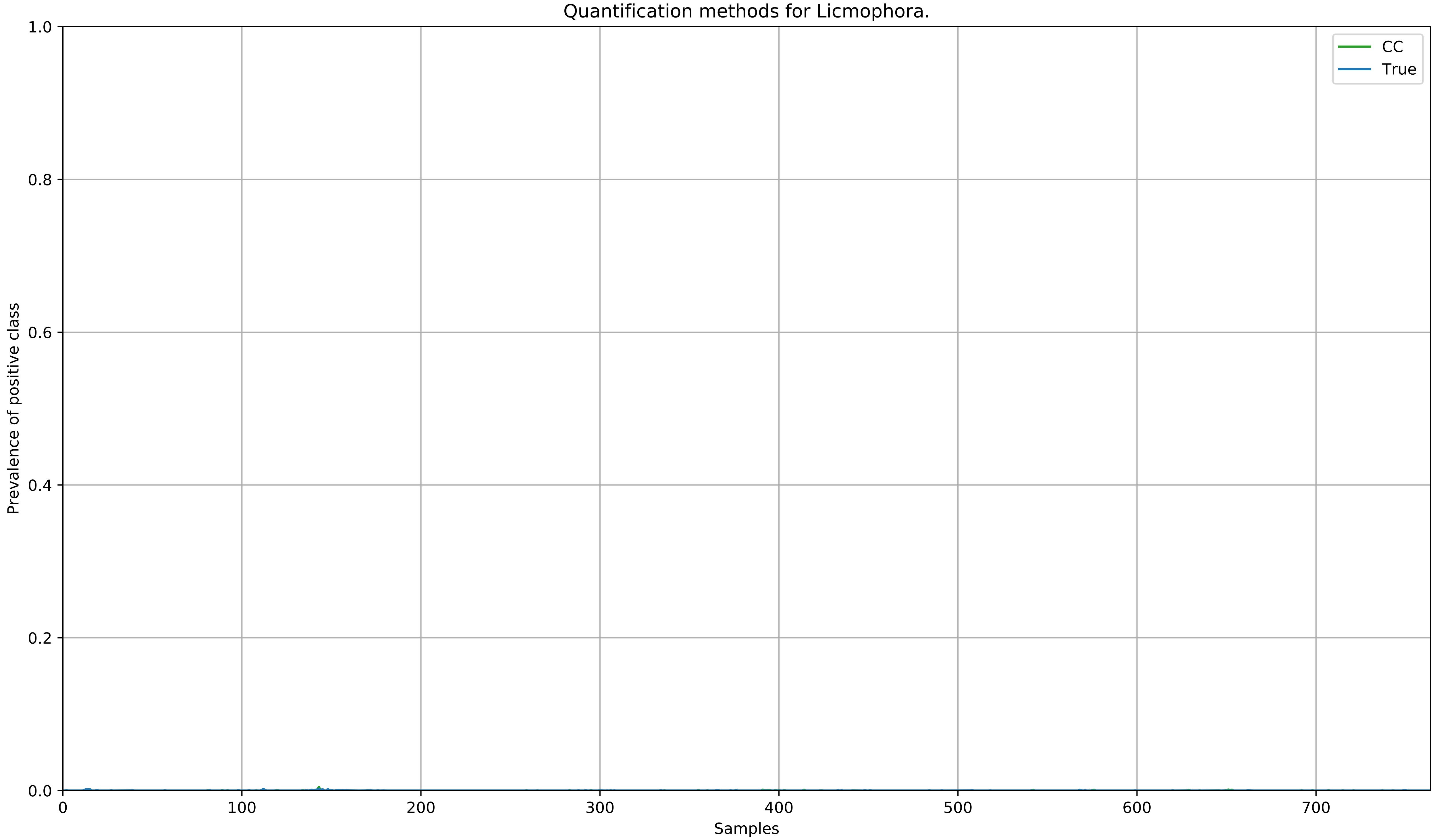

Quantification methods for Dinobryon.
CC
AC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700

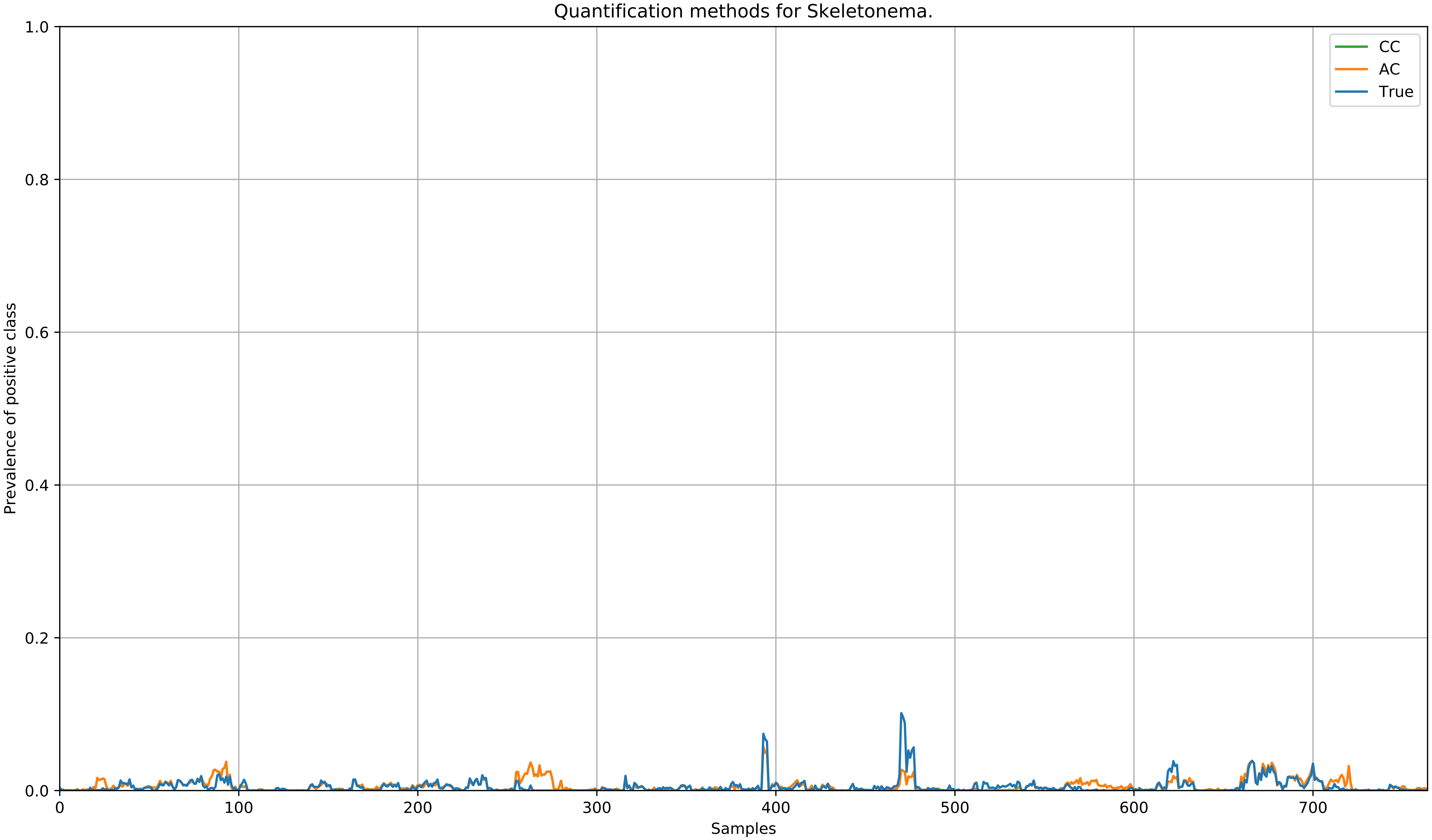

Quantification methods for pennate.
CC
AC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700

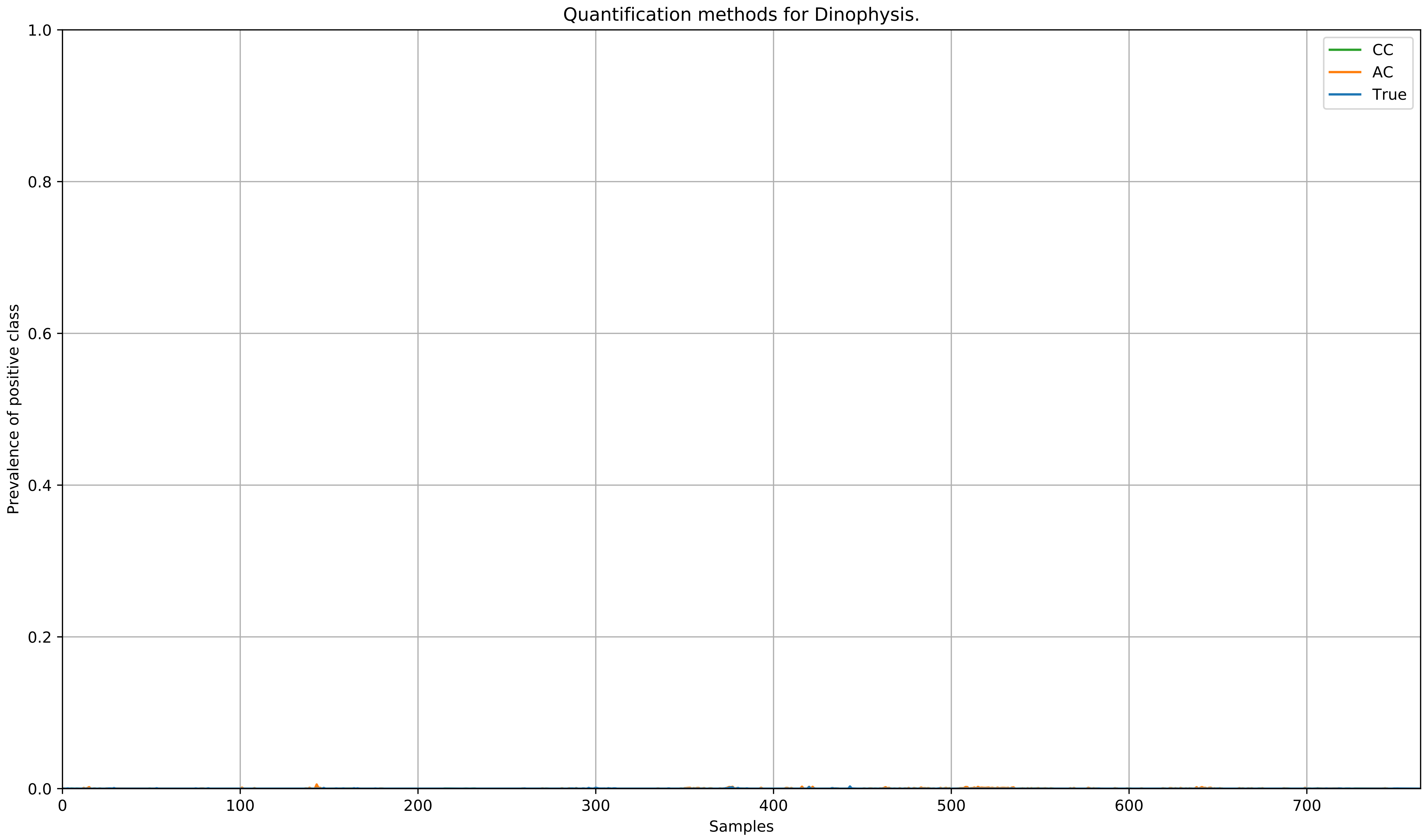

Quantification methods forErataulina.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

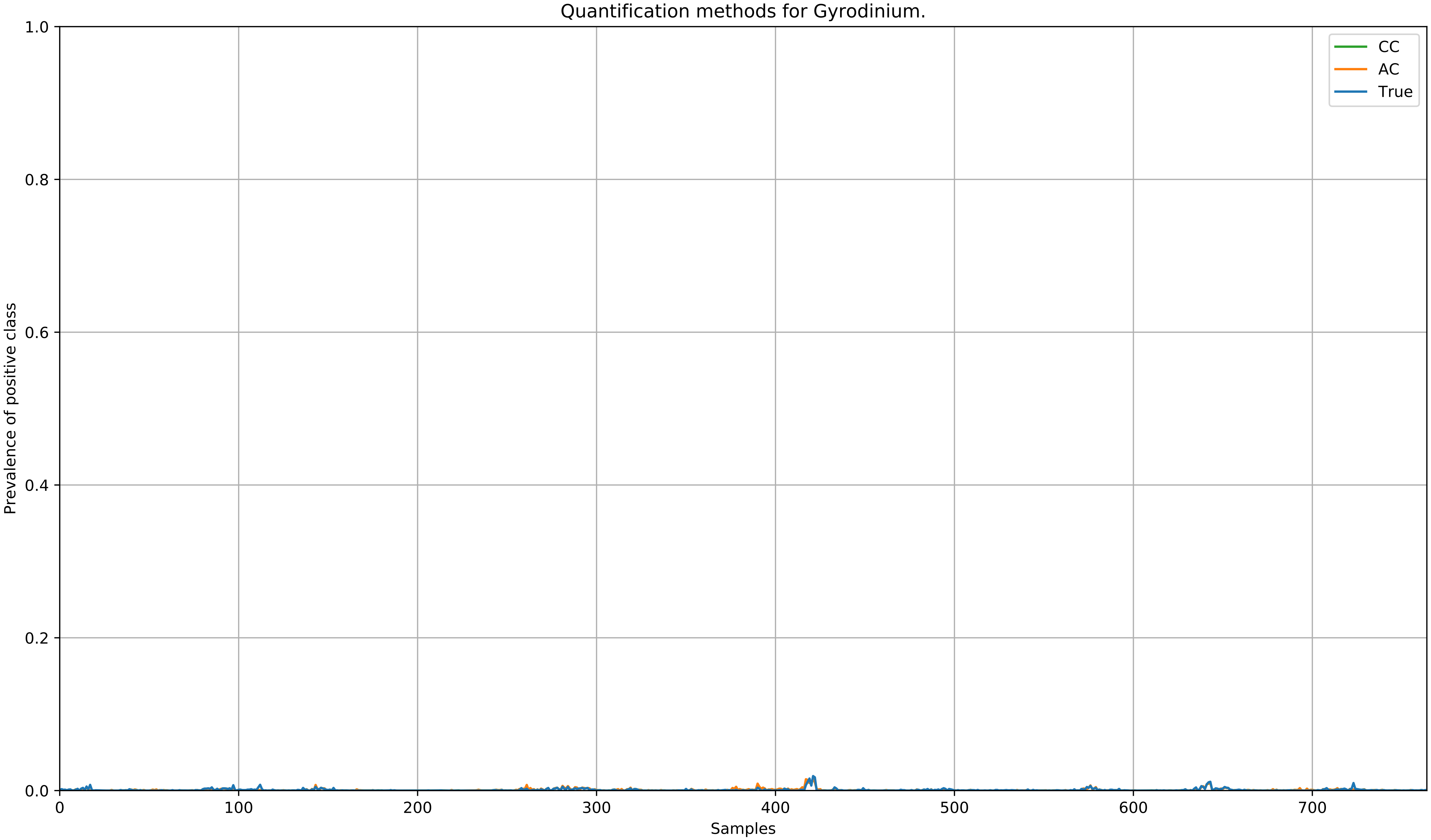

Quantification methods for Paralia.
CC
AC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700

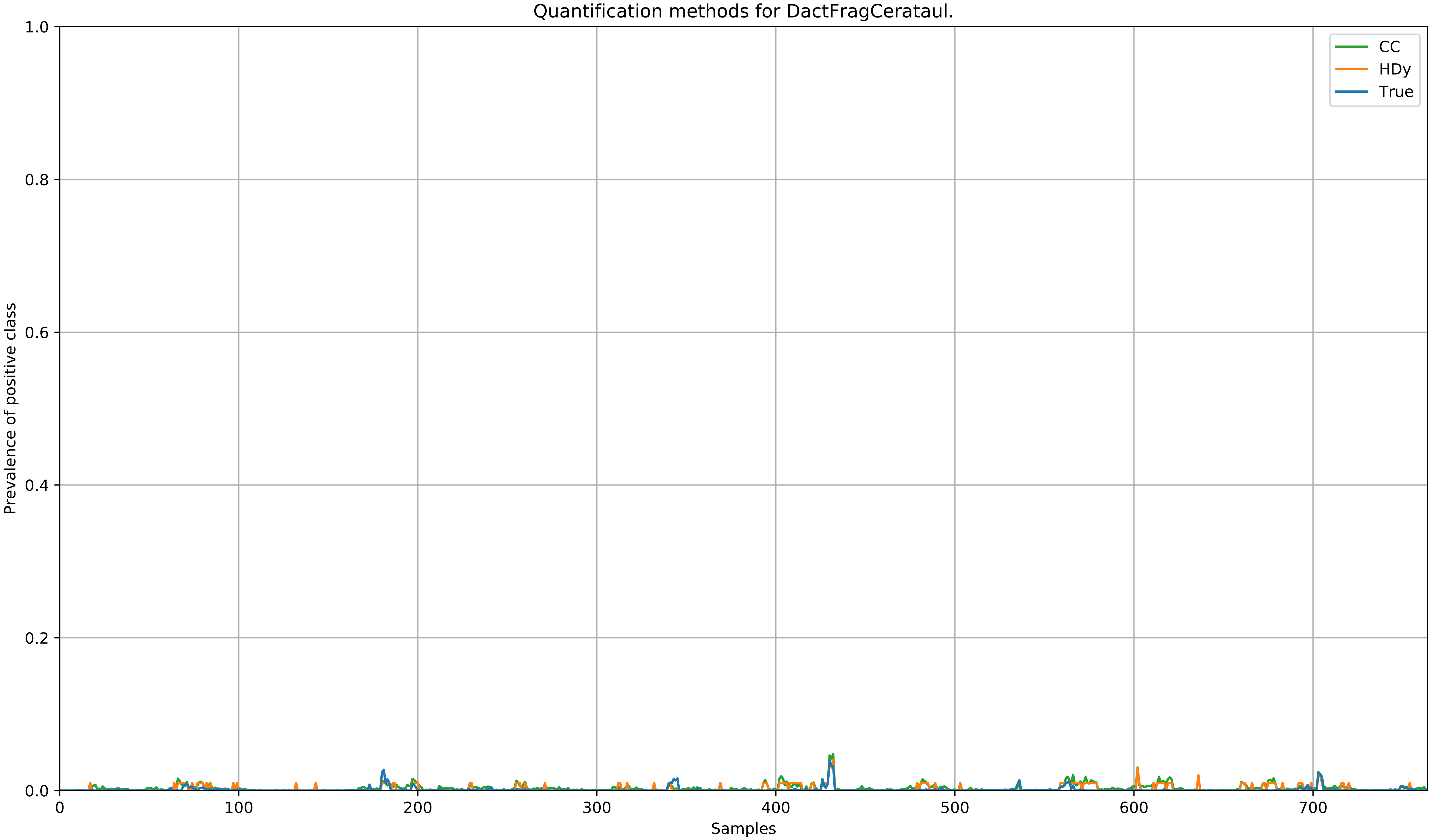

Quantification methods for mix_elongated.
Prevalence of positive class
Samples
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
CC
AC
HDy
True

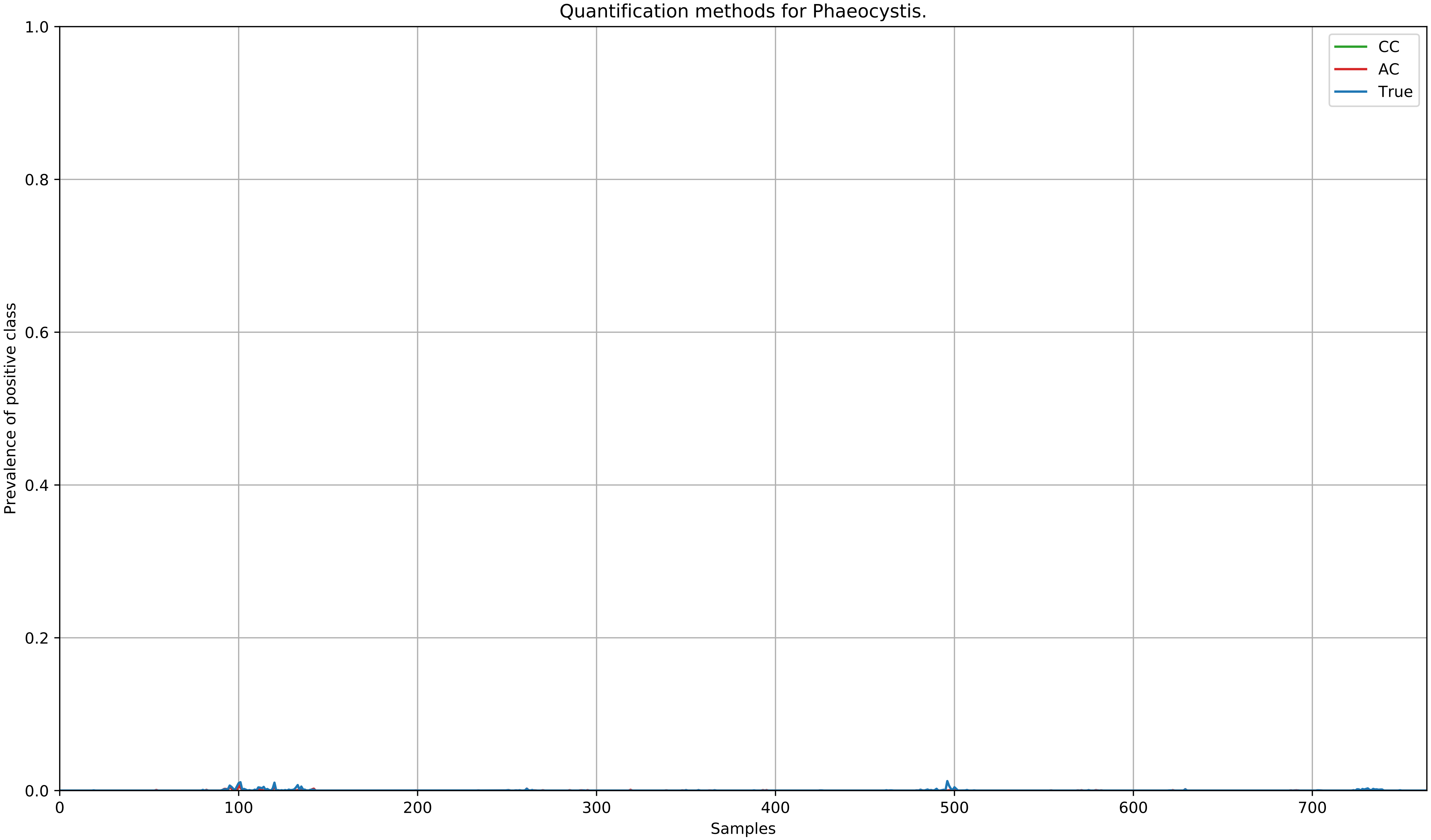

Quantification methods for Licmophora.
CC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

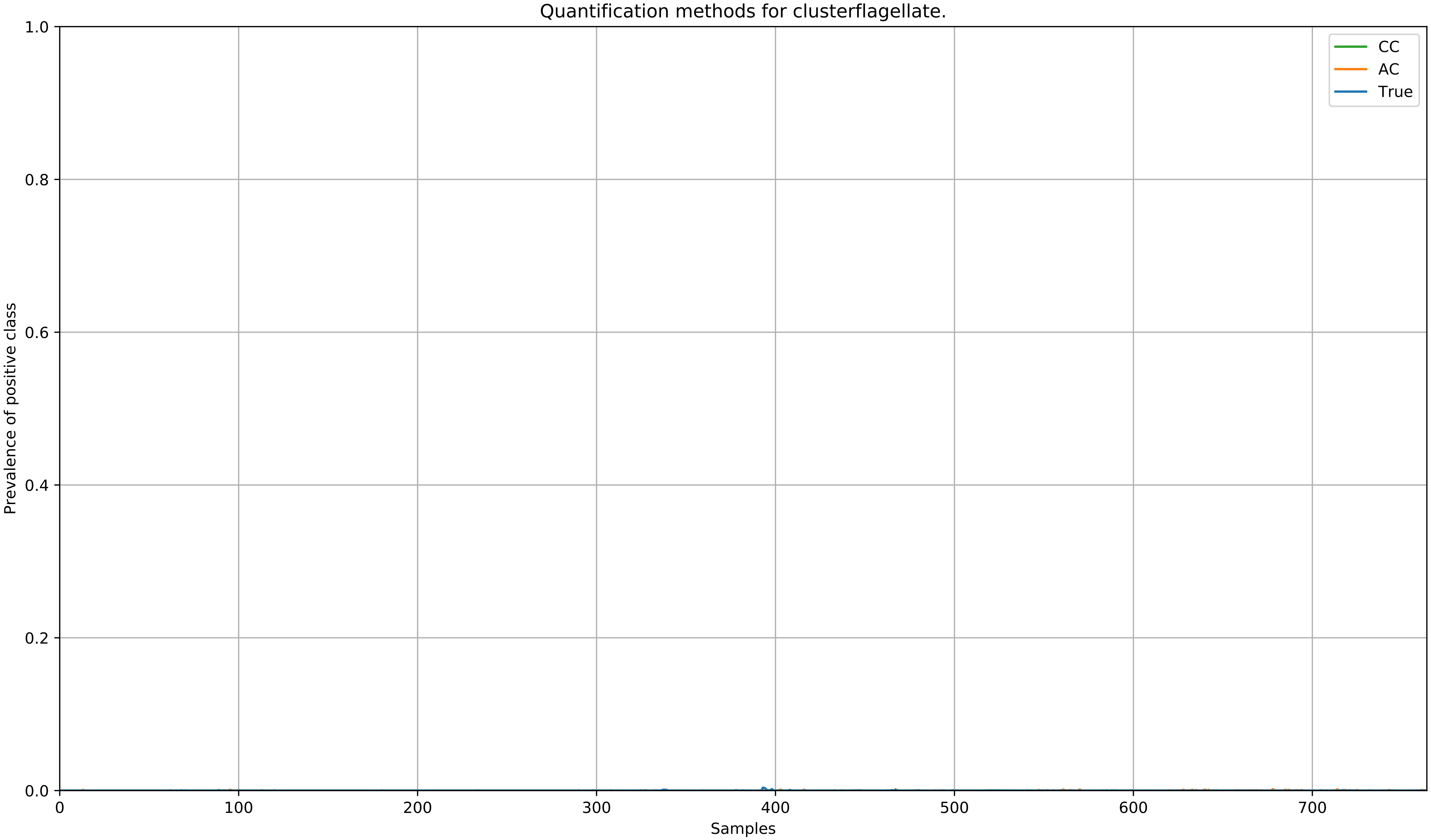

Quantification methods for Skeletonema.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

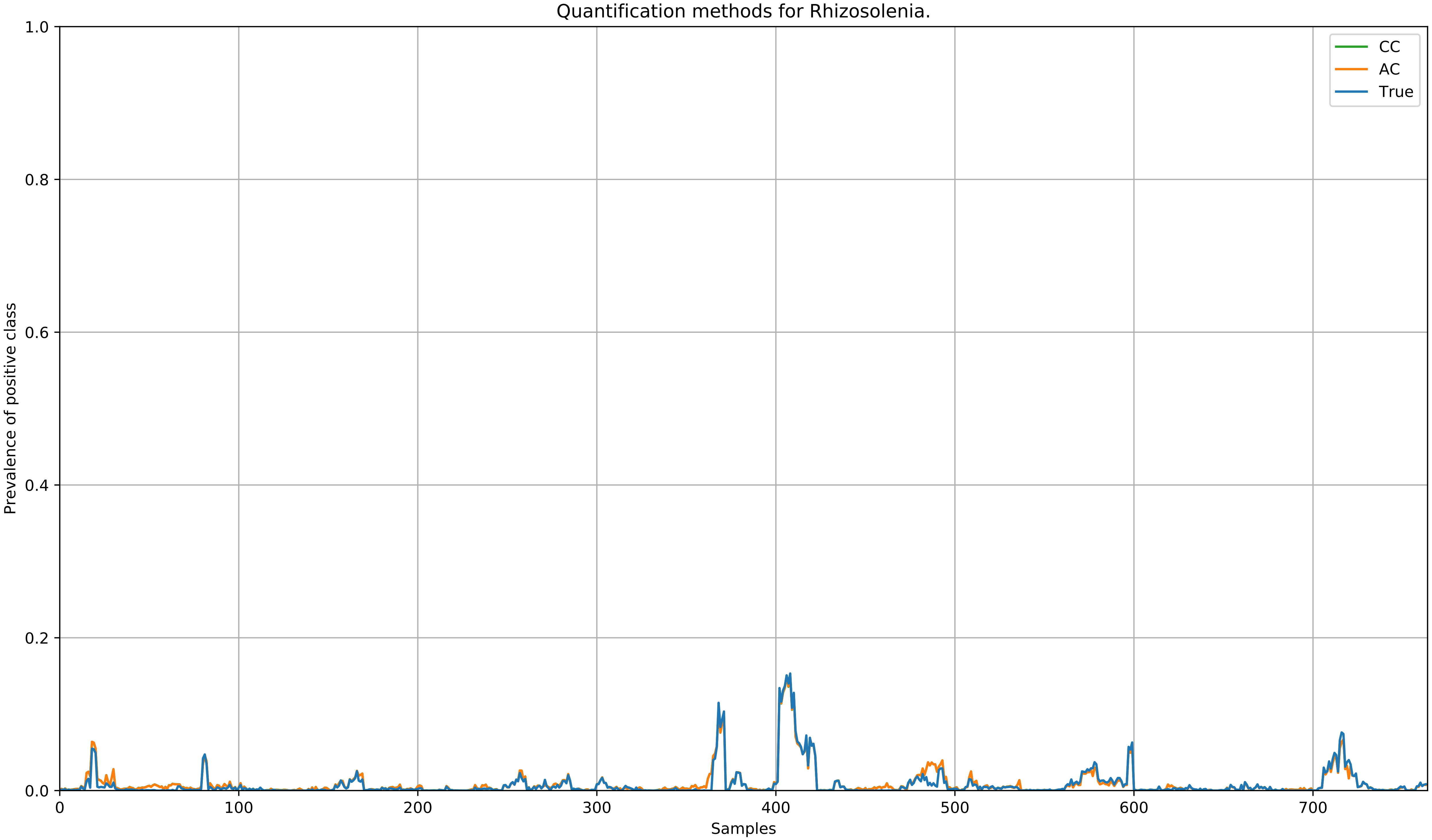

Quantification methods for Dinophysis.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

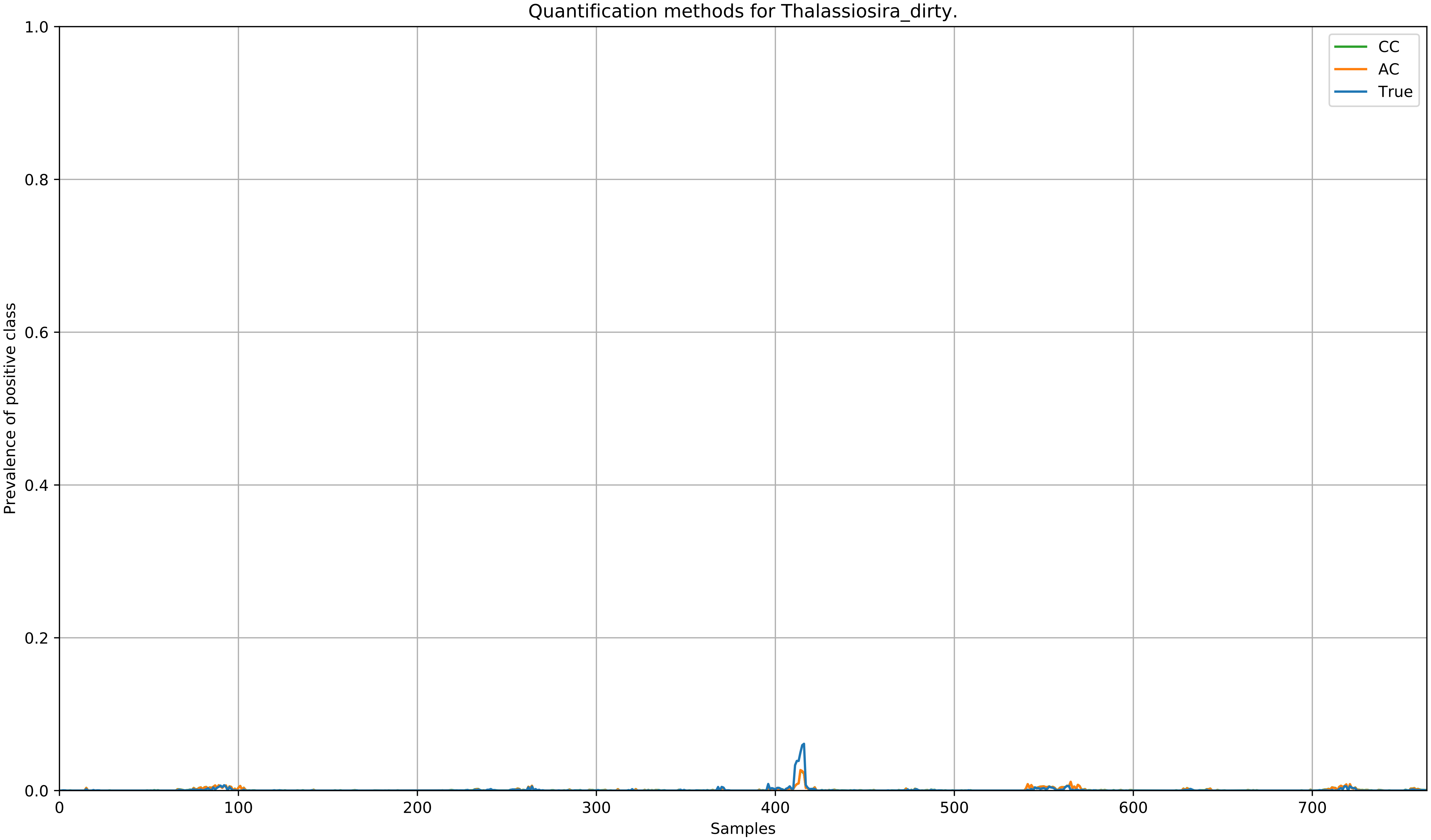

Quantification methods for Gyrodinium.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
Samples
0
100
200
300
400
500
600
700

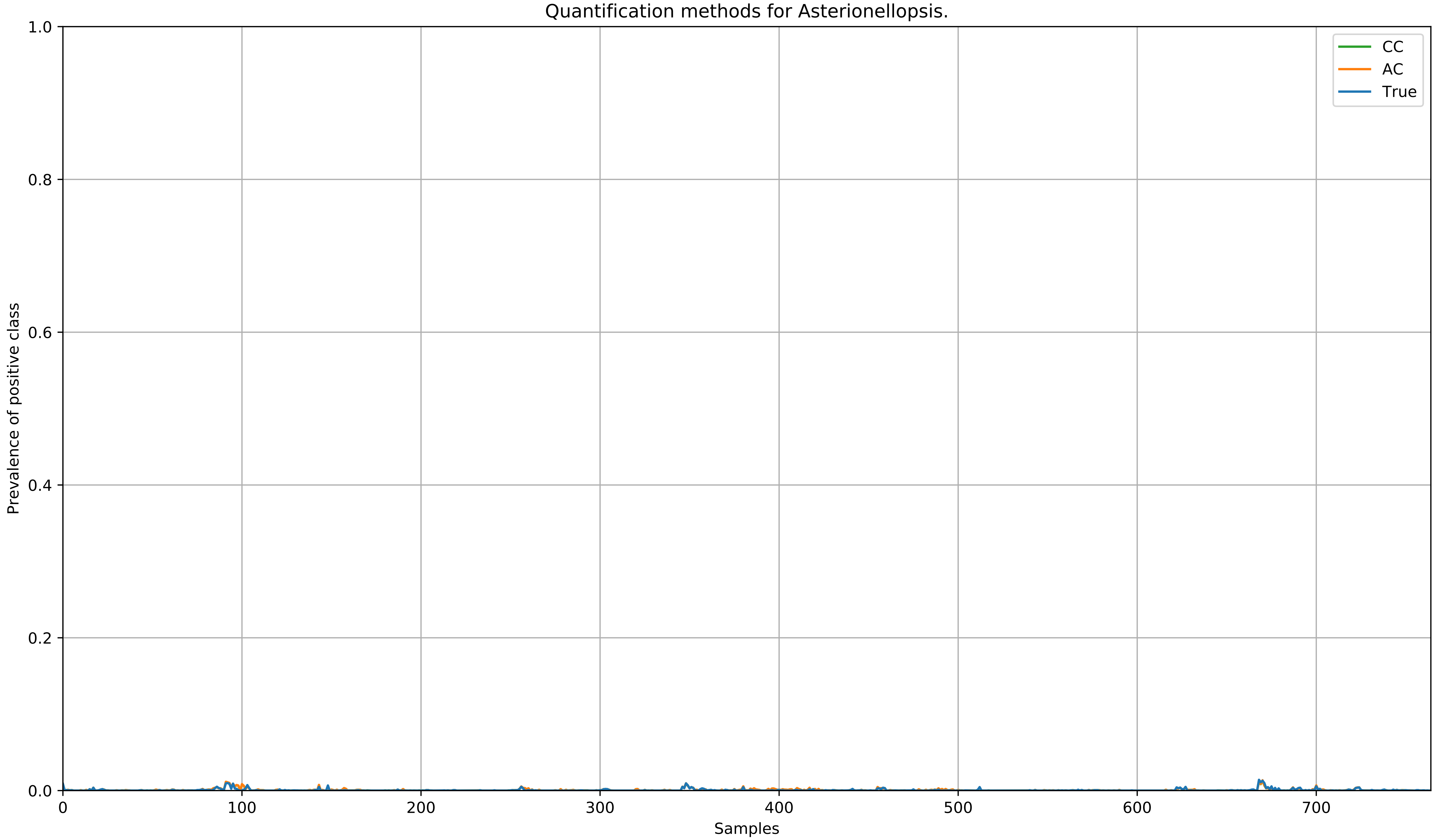

Quantification methods for DactFragCerataul.
CC
HDy
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700

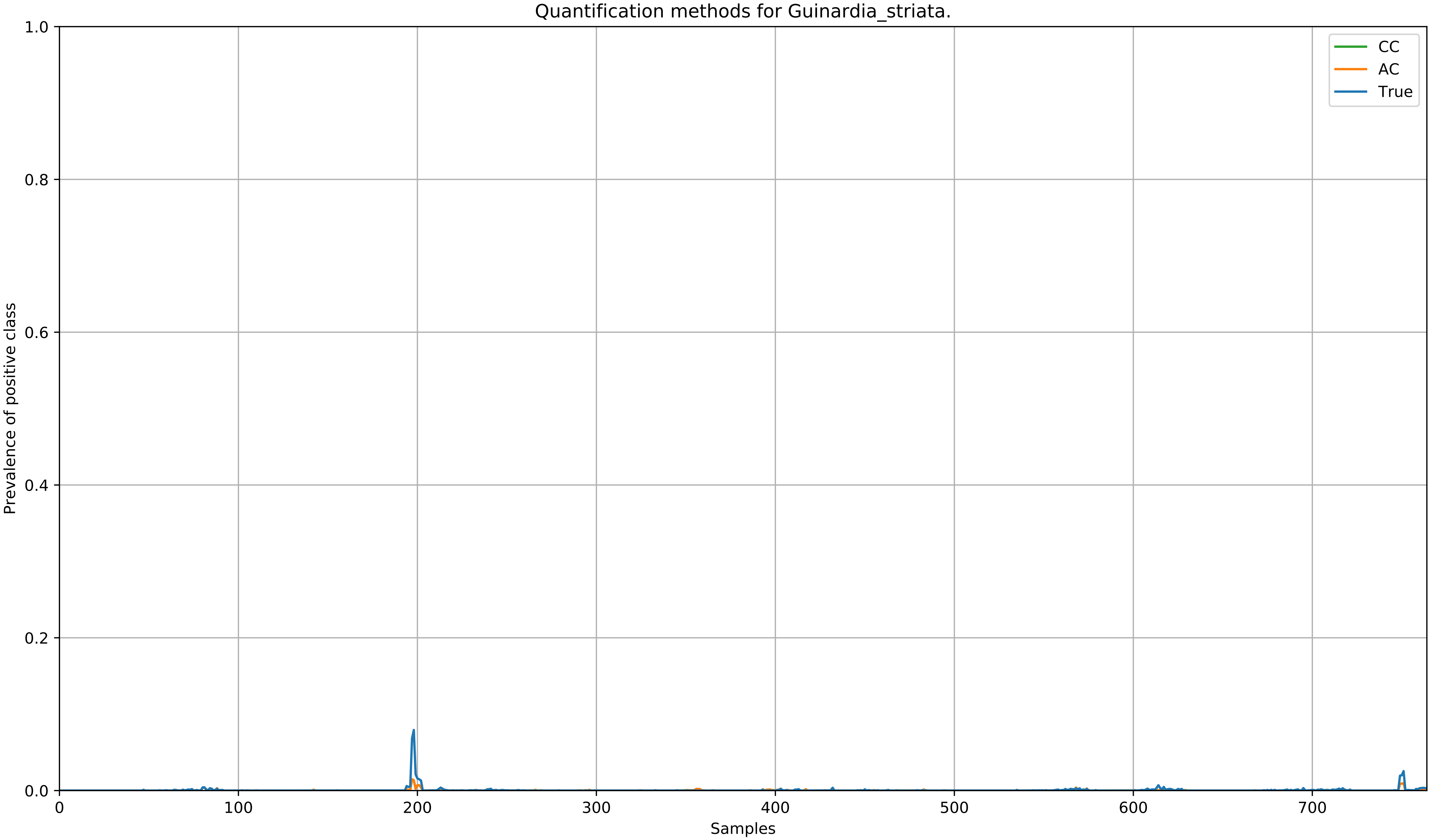

Quantification methods for Phaeocystis.
CC
AC
True
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples

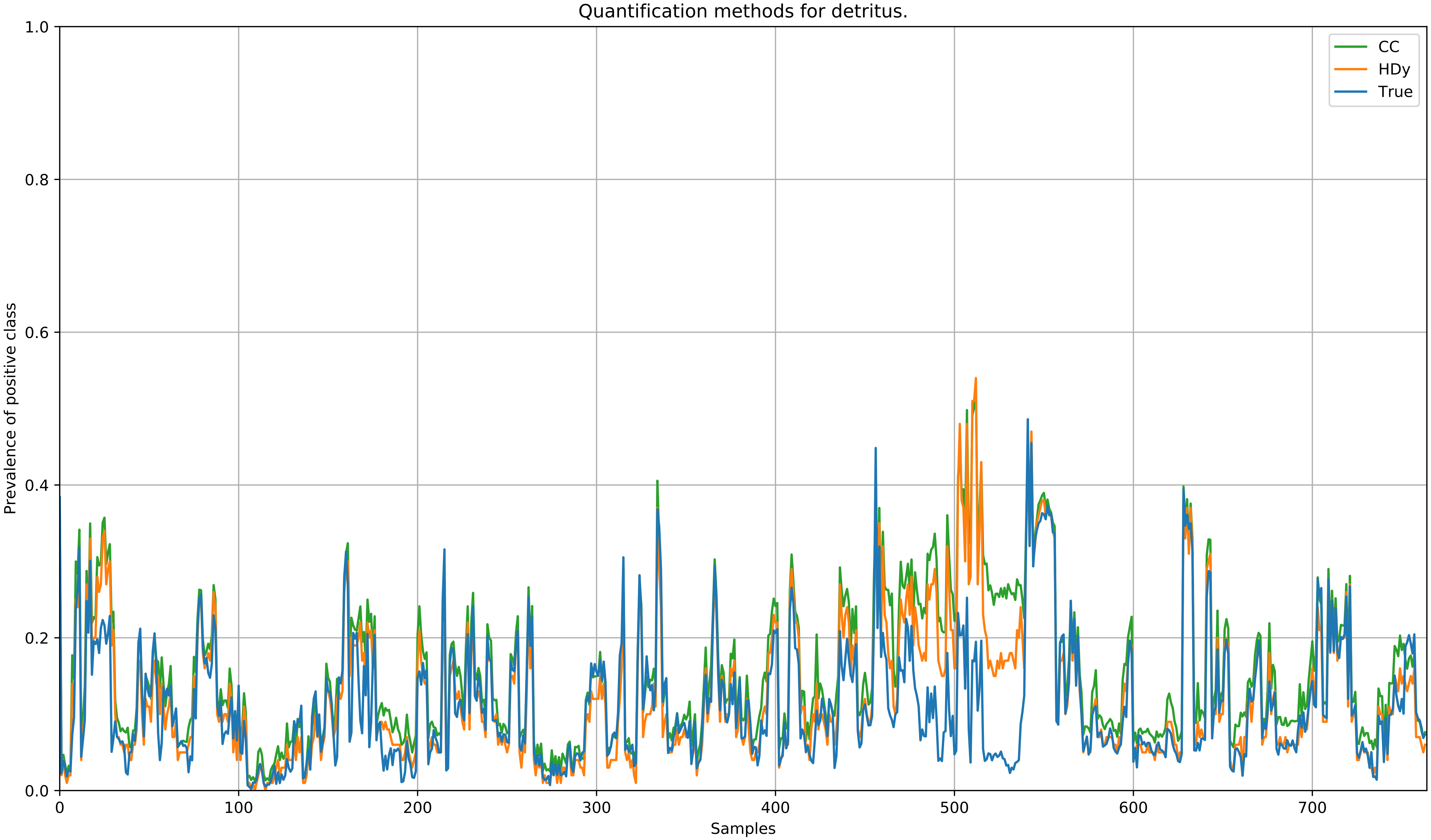

Quantification methods for clusterflagellate.
CC
AC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700

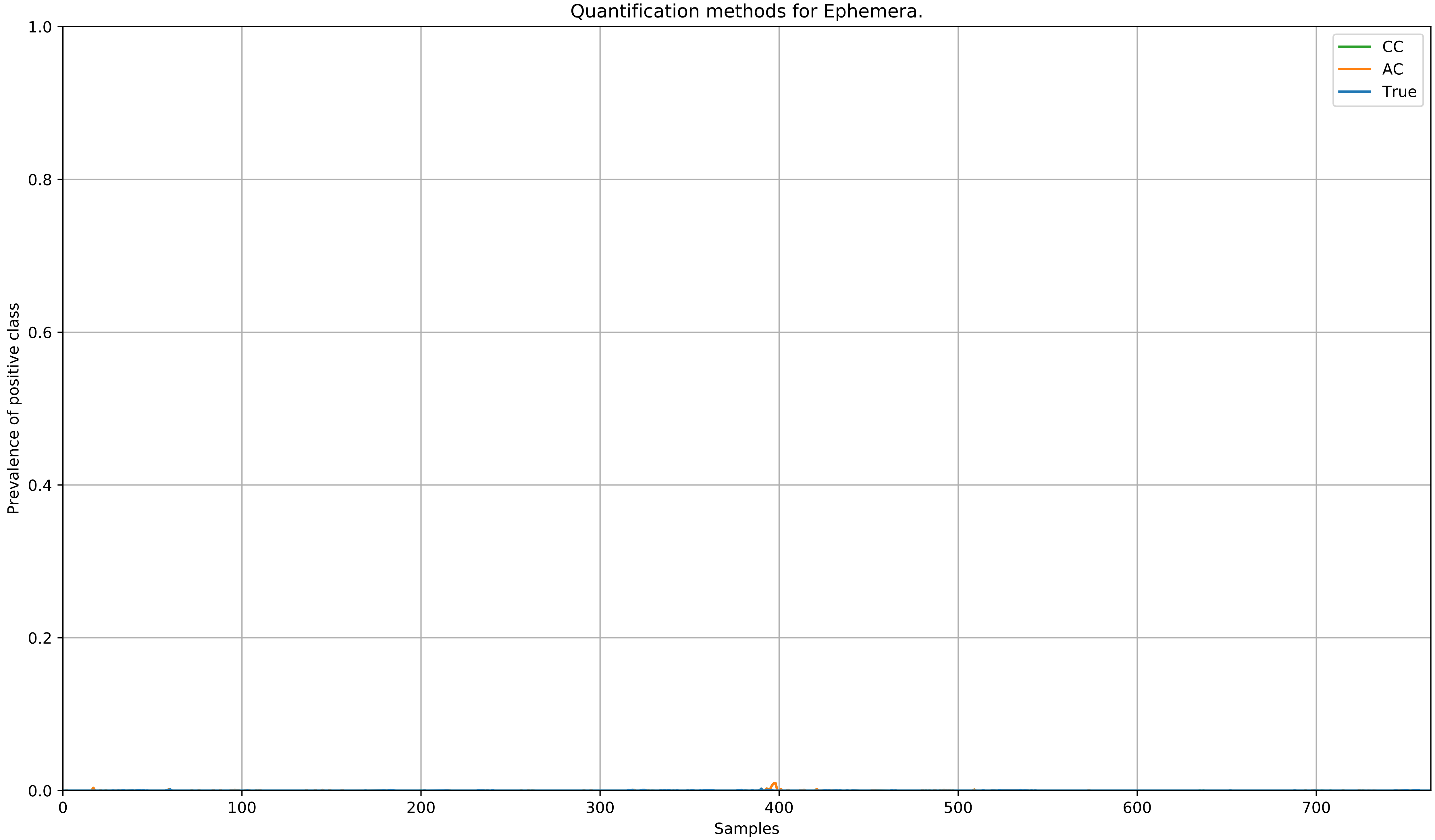

Quantification methods for Rhizosolenia.
Prevalence of positive class
Samples
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
CC
AC
True

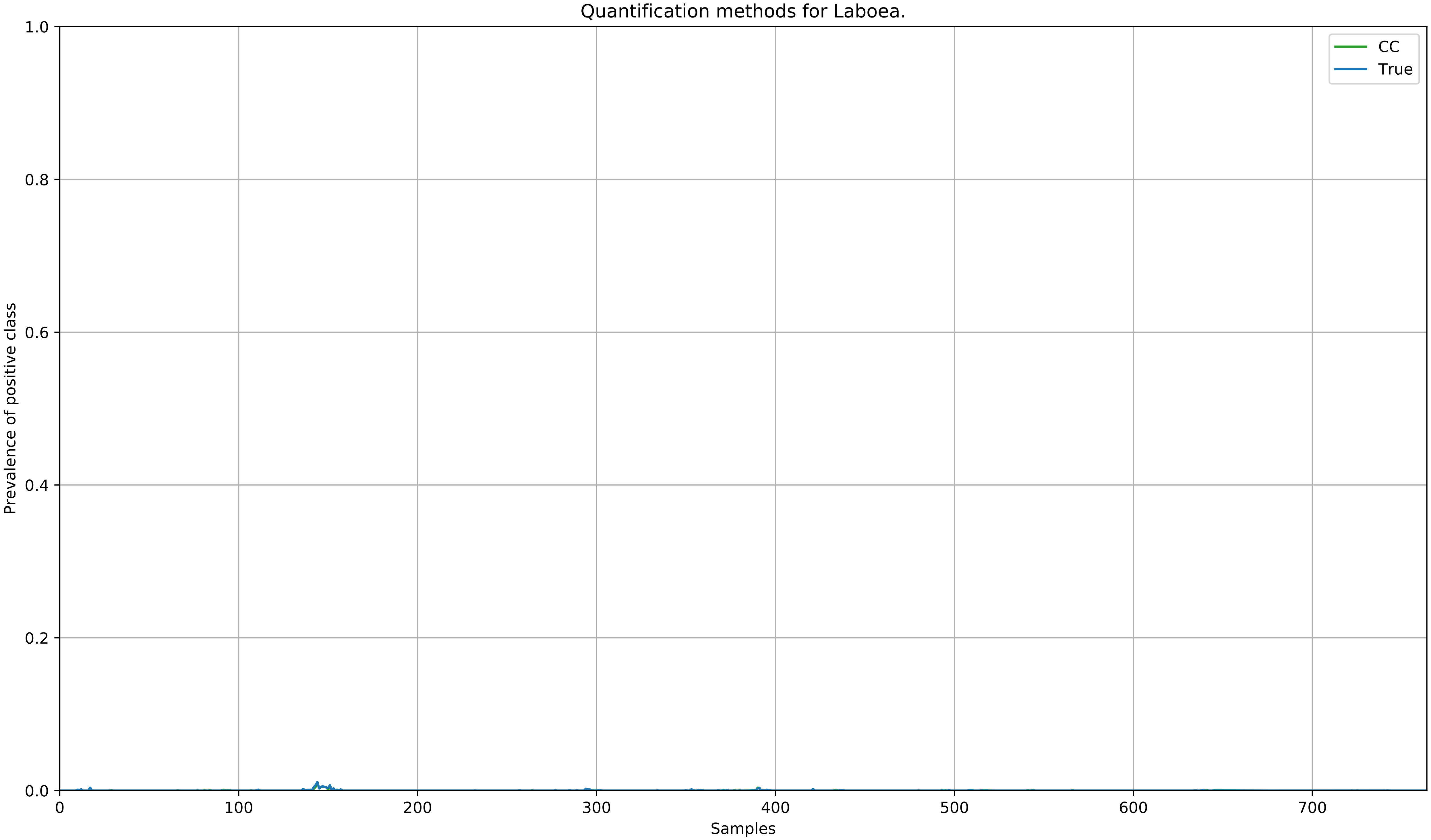

Quantification methods for Thalassiosira_dirty.
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
CC
AC
True

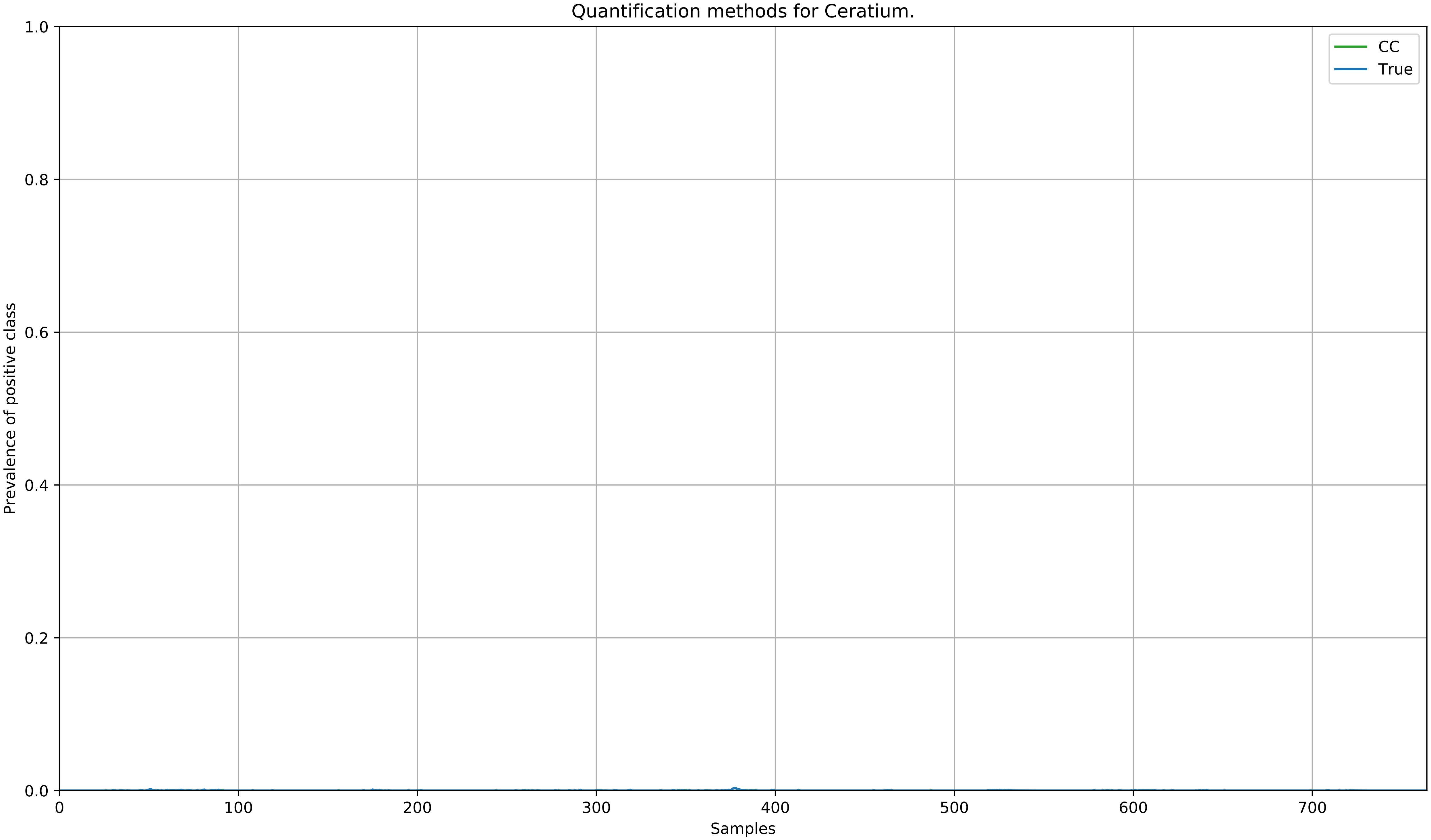

Quantification methods for Asterionellopsis.
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
CC
AC
True

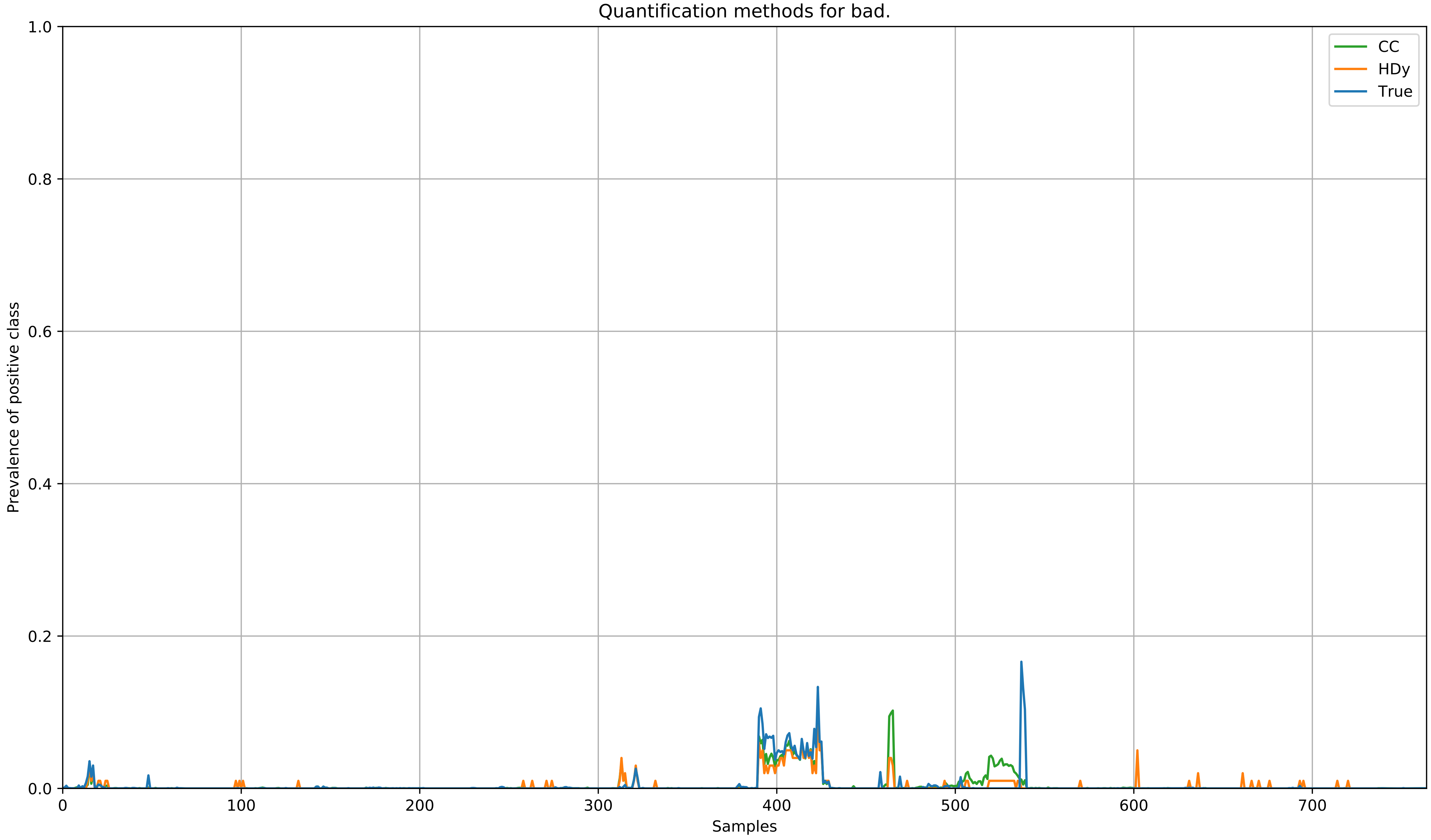

Quantification methods for Guinardia_striata.
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples
CC
AC
True

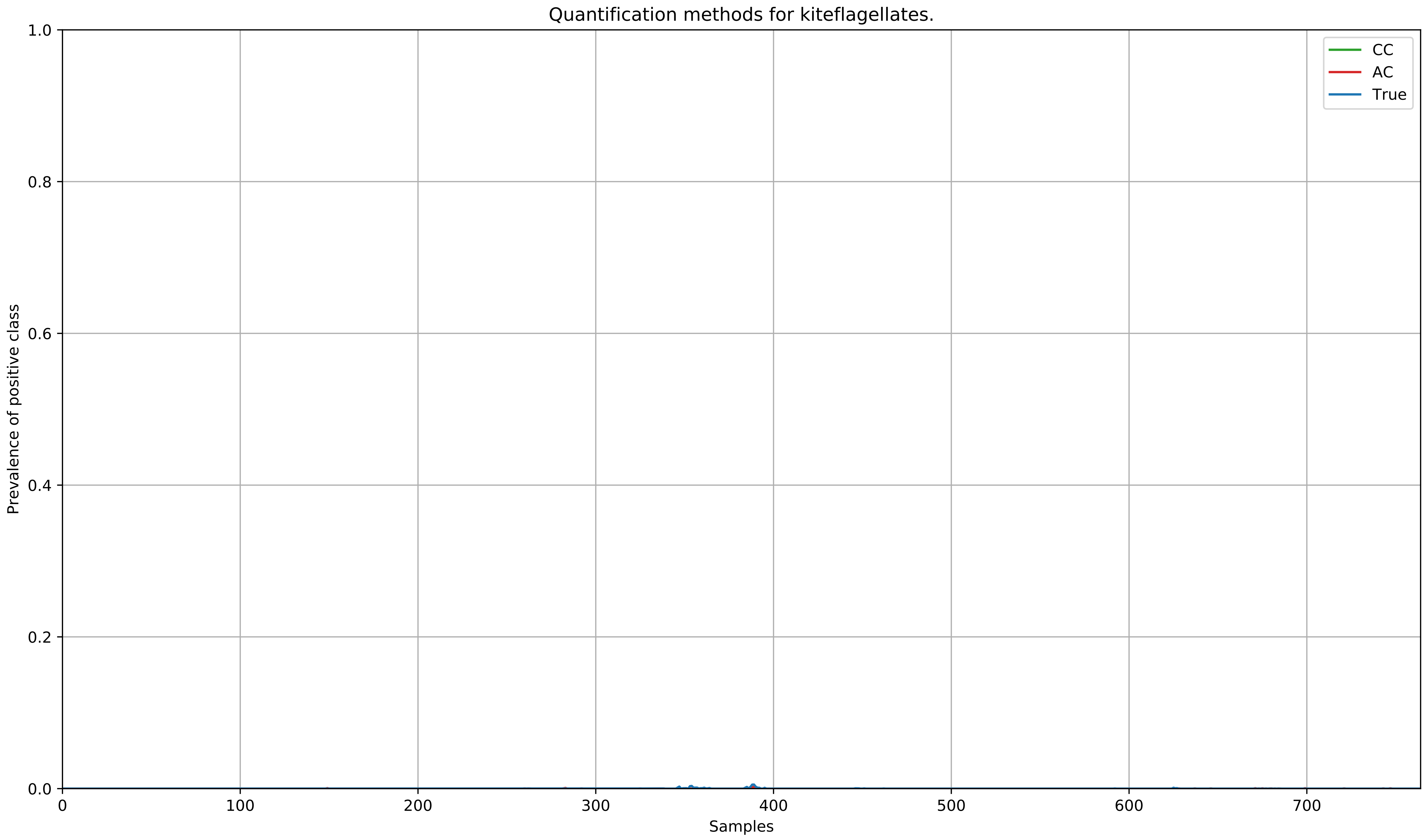

Quantification methods for detritus.
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
CC
HDy
True

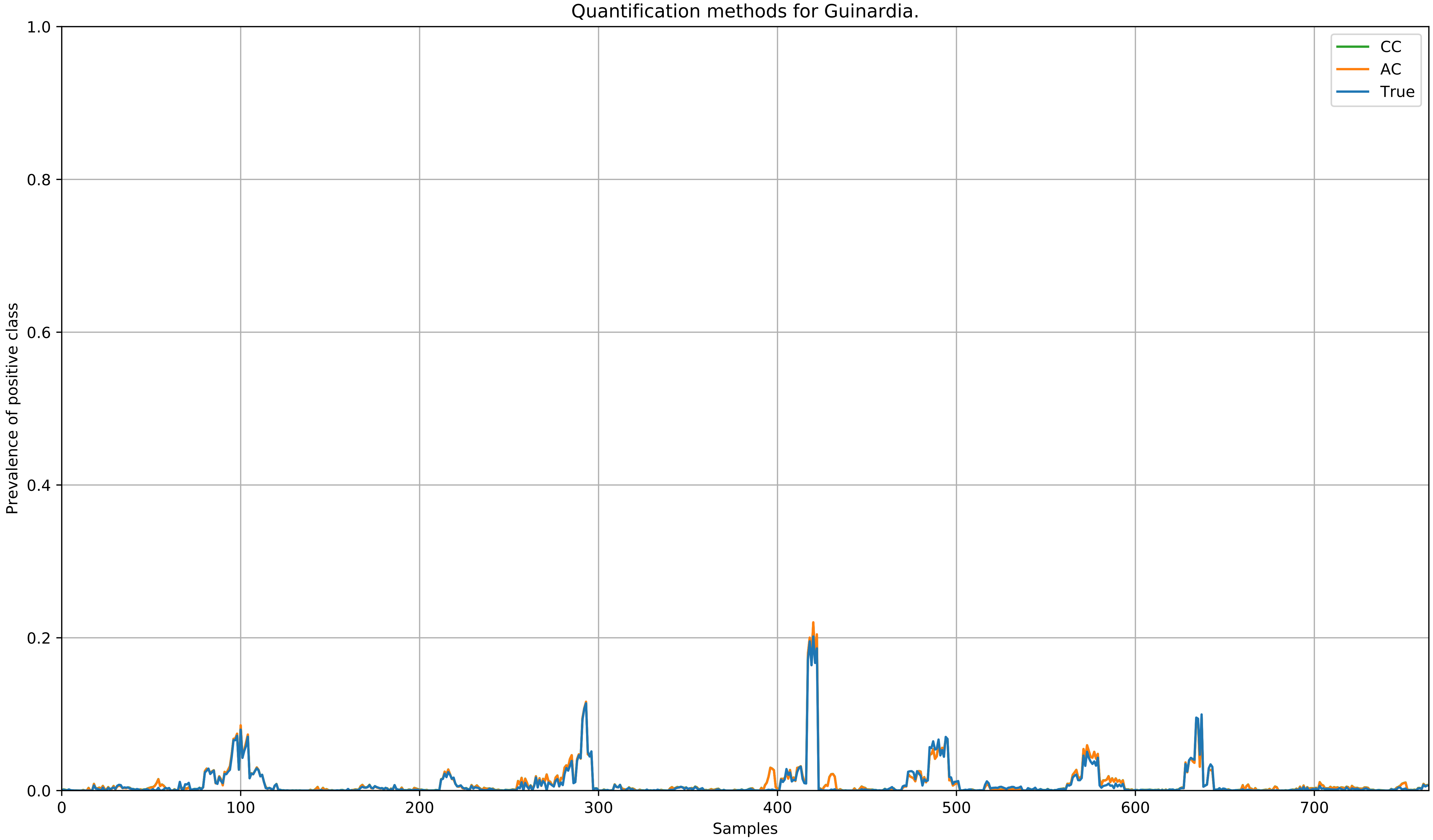

Quantification methods for Ephemera.
CC
AC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700


Quantification methods for Laboea.
Prevalence of positive class
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
700
Samples
CC
True


Quantification methods for Ceratium.
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
Samples
0
100
200
300
400
500
600
700
CC
True


Quantification methods for bad.
1.0
0.8
0.6
0.4
0.2
0.0
Prevalence of positive class
0
100
200
300
400
500
600
700
Samples
CC
HDy
True


Quantification methods for kiteflagellates.
Prevalence of positive class
Samples
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
CC
AC
True


Quantification methods for Guinardia.
CC
AC
True
Prevalence of positive class
0.0
0.2
0.4
0.6
0.8
1.0
0
100
200
300
400
500
600
700
Samples