

BRANDERA AT A1 AT EUOIS2
08/06/97 04:59 PM

To: ZIPFEL AT A1 AT WWPS
cc: CHAPMAGA AT A1 AT WWPS , AL, MORGANRA AT A1 AT WWPS , KRONBERG AT A1 AT
WWPS , HEERC AT A1 AT EUOIS2 , MAASJP AT A1 AT WWPS , DAUBEC AT A1 AT WWPS
Subject: RE: Can you help explain the attached

Roger, Jason,

I presume your numbers are on dry FEP basis ?

In 1995 and 1996 we analyzed C-8 in FEP 9302 at the V-disk.

year: 1995
frequency every hour
C-8 ppm 349, 285, 411, 221 (dry basis ?)

year: 1996
frequency every half hour
C-8 ppm 332, 284, 218, 249, 481, 555, 580, 392 (dry basis)
solids % 88.6, 93.9, 84.7, 78.4, 89.1, 89.4, 89.2, 92.0

After that we improved our analytical methods drastically and found

date 24-6-97
type 100-LG
frequency every 20 minutes
solids 71.4, 67.8, 59.6, 65.8, 45.1
C-8 ppm Me-bl 3282, 3305, 3711, 3465, 3310
C-8 ppm ECD 3191, 3312, 3590, 3392, 3197

date 16-7-97
type 5100-N
frequency every 20 minutes
solids 70.7, 70.2, 69.8, 72.1, 71.2
C-8 Me-bl 3396, 3499, 3026, 3243, 3267
C-8 ECD 2967, 3204, 3160, 3152, 3276

We found it is VERY VERY important to be in the linear range of the ECD detector. We diluted the extracted solutions 200 times to achieve that. An ECD has a rather short linear range. You should check what it is by making a calibration line. If you are above the linear range, you will find far too low results, unless you interpolate in the non-linear area. Also we had a fouled detector, and C-8 was blamed by some people.

As you can see the ECD gives slightly lower results, probably there are still some in-situ surfactants in the wet fluff, which are seen by Me-blue but not by ECD. We don't have the variations anymore that we used to see, I don't know why, but there were quite some process

RJZ012208

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changes since early 1996.

One trick you can do is to reanalyze in a random order, to see if moment of analyzing was a factor.

good luck,

Rik

RIZ012209

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