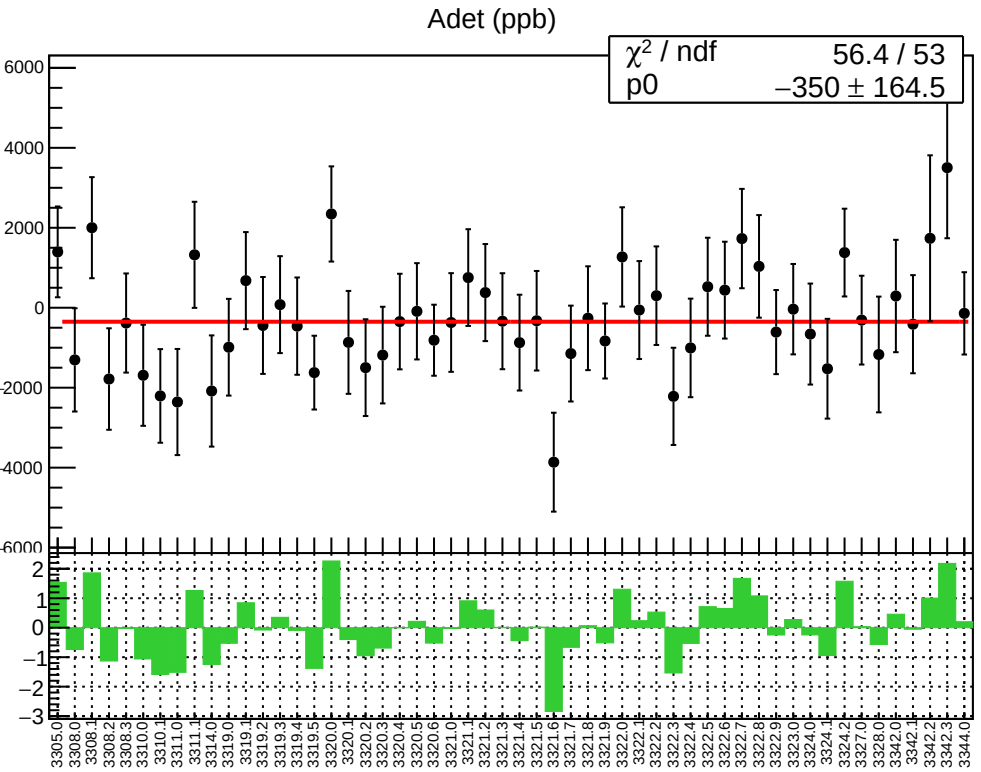
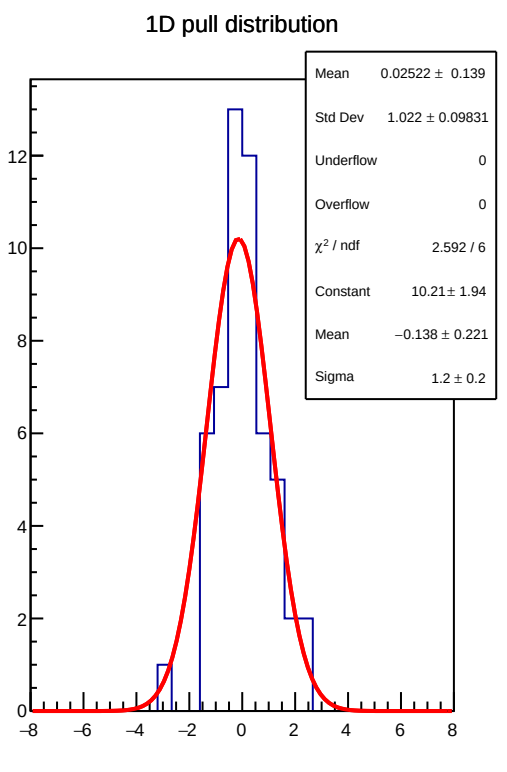
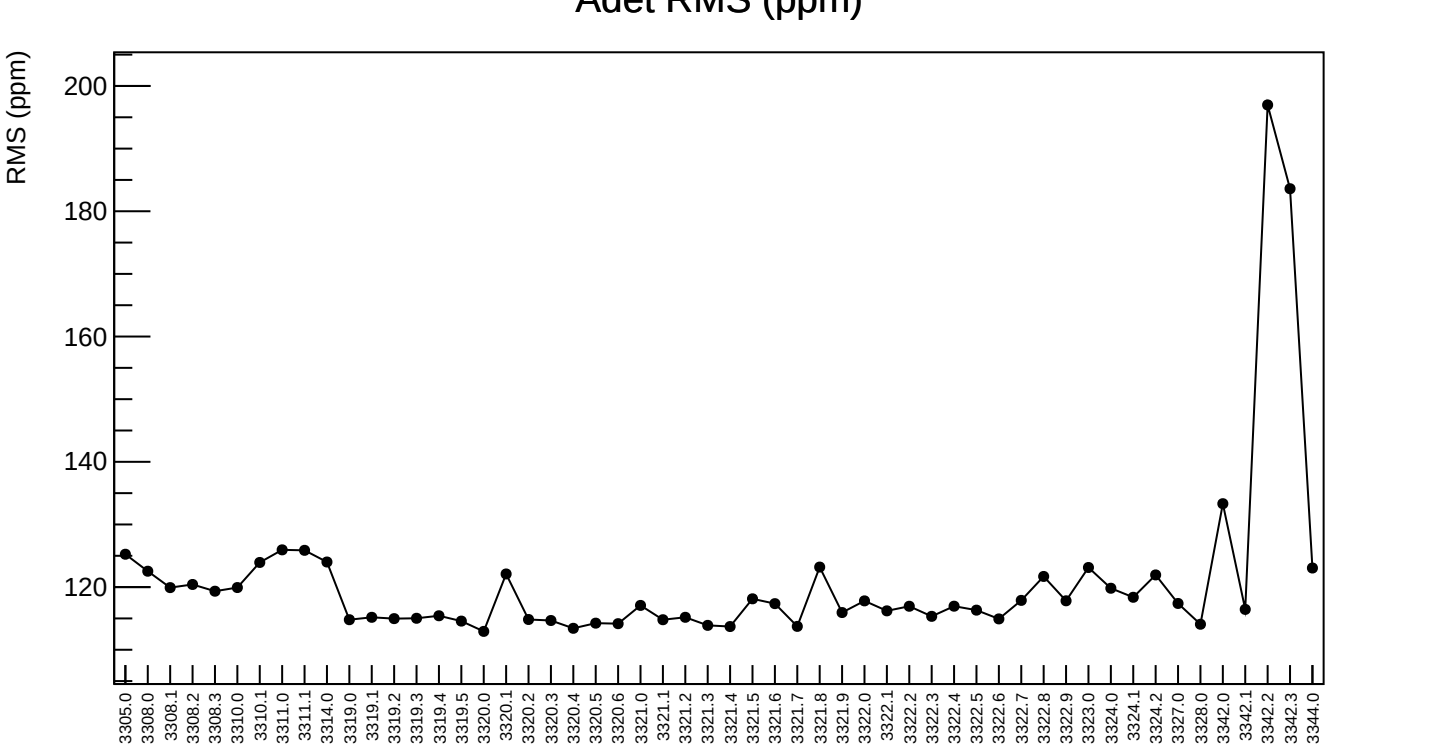
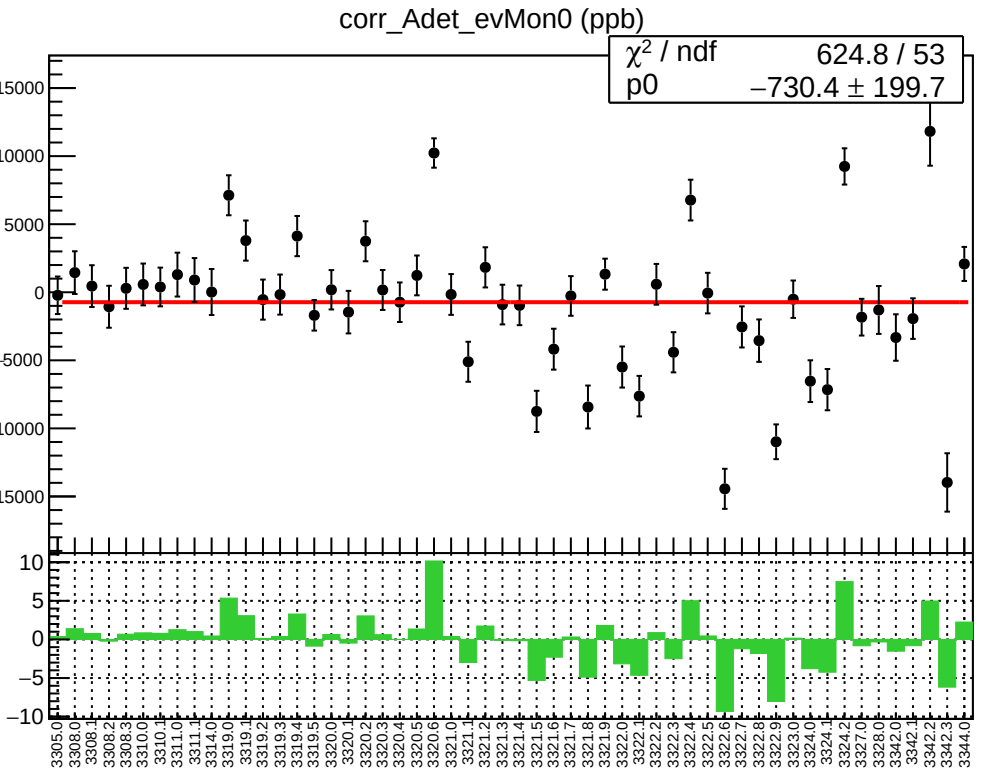
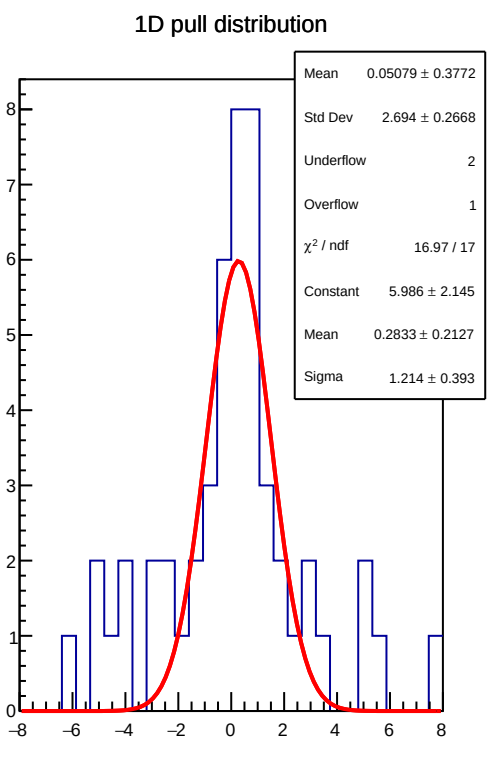
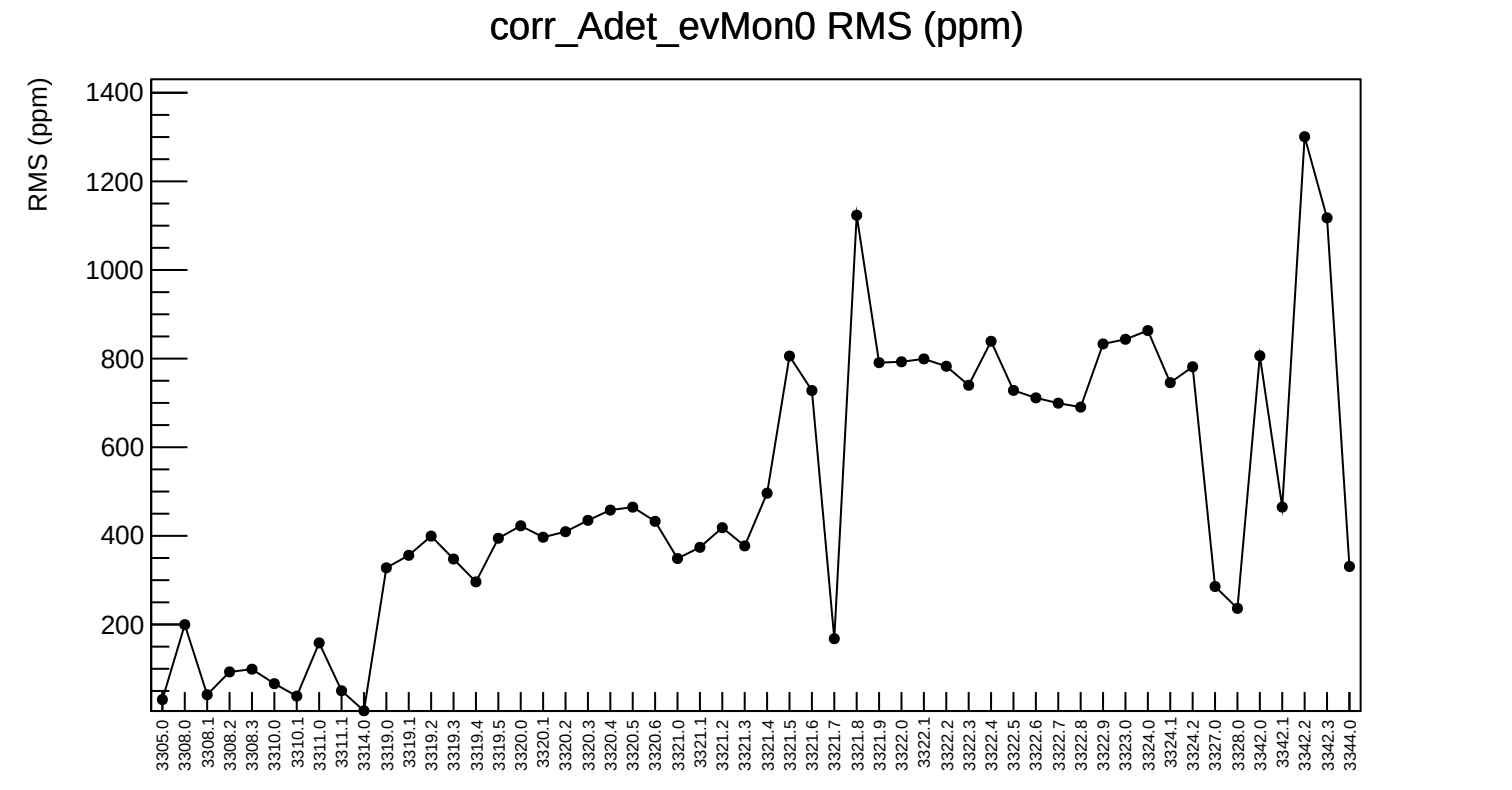

Adet (ppb)
χ² / ndf 56.4 / 53
p0 −350 ± 164.5
6000
4000
2000
0
-2000
-4000
-6000
2
1
0
−1
−2
−3
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

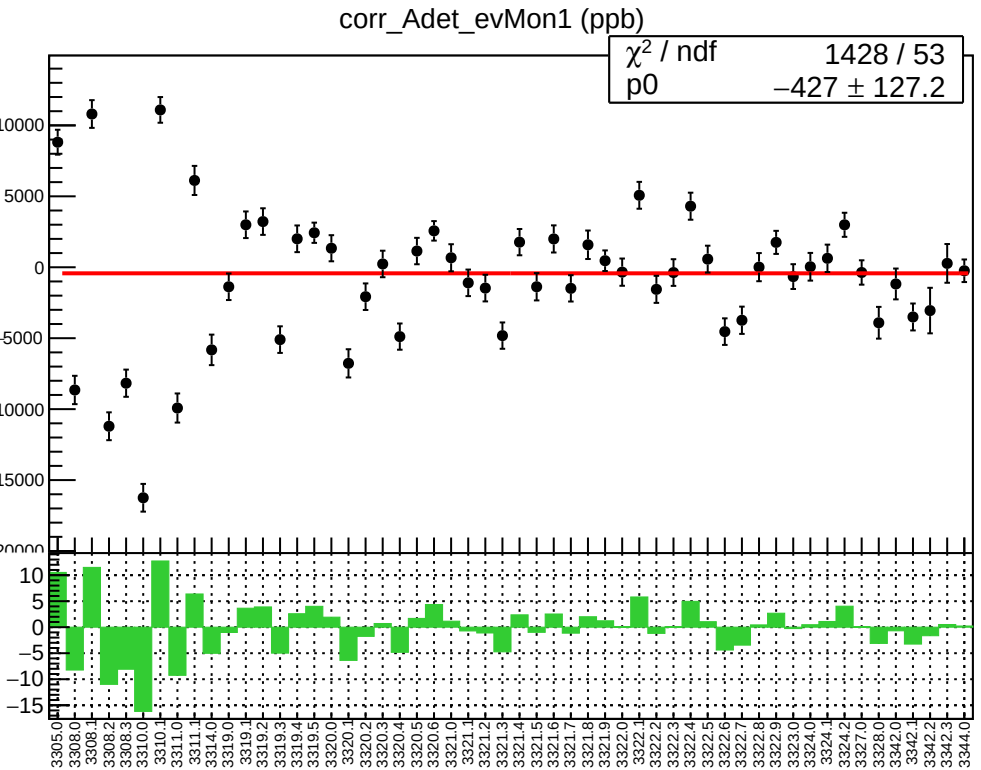

1D pull distribution
Mean 0.02522 ± 0.139
Std Dev 1.022 ± 0.09831
Underflow 0
Overflow 0
χ² / ndf 2.592 / 6
Constant 10.21 ± 1.94
Mean −0.138 ± 0.221
Sigma 1.2 ± 0.2
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

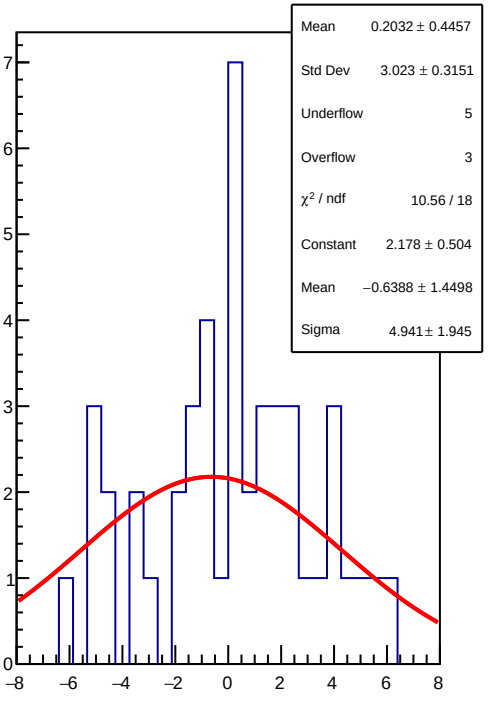

Adet RMS (ppm)
RMS (ppm)
200
180
160
140
120
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

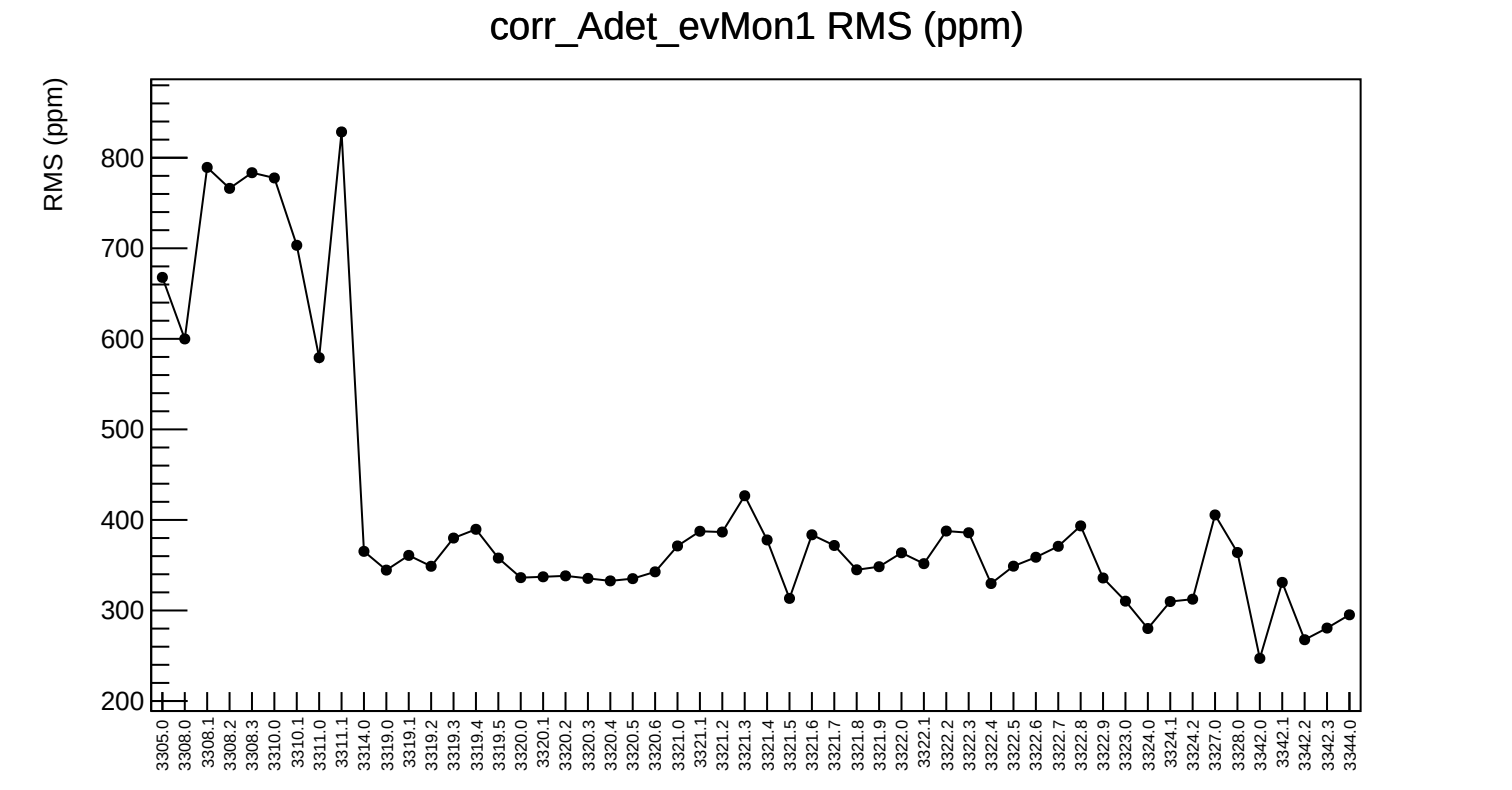

corr_Adet_evMon0 (ppb)
χ² / ndf 624.8 / 53
p0 −730.4 ± 199.7
15000
10000
5000
0
−5000
−10000
−15000
10
5
0
−5
−10
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

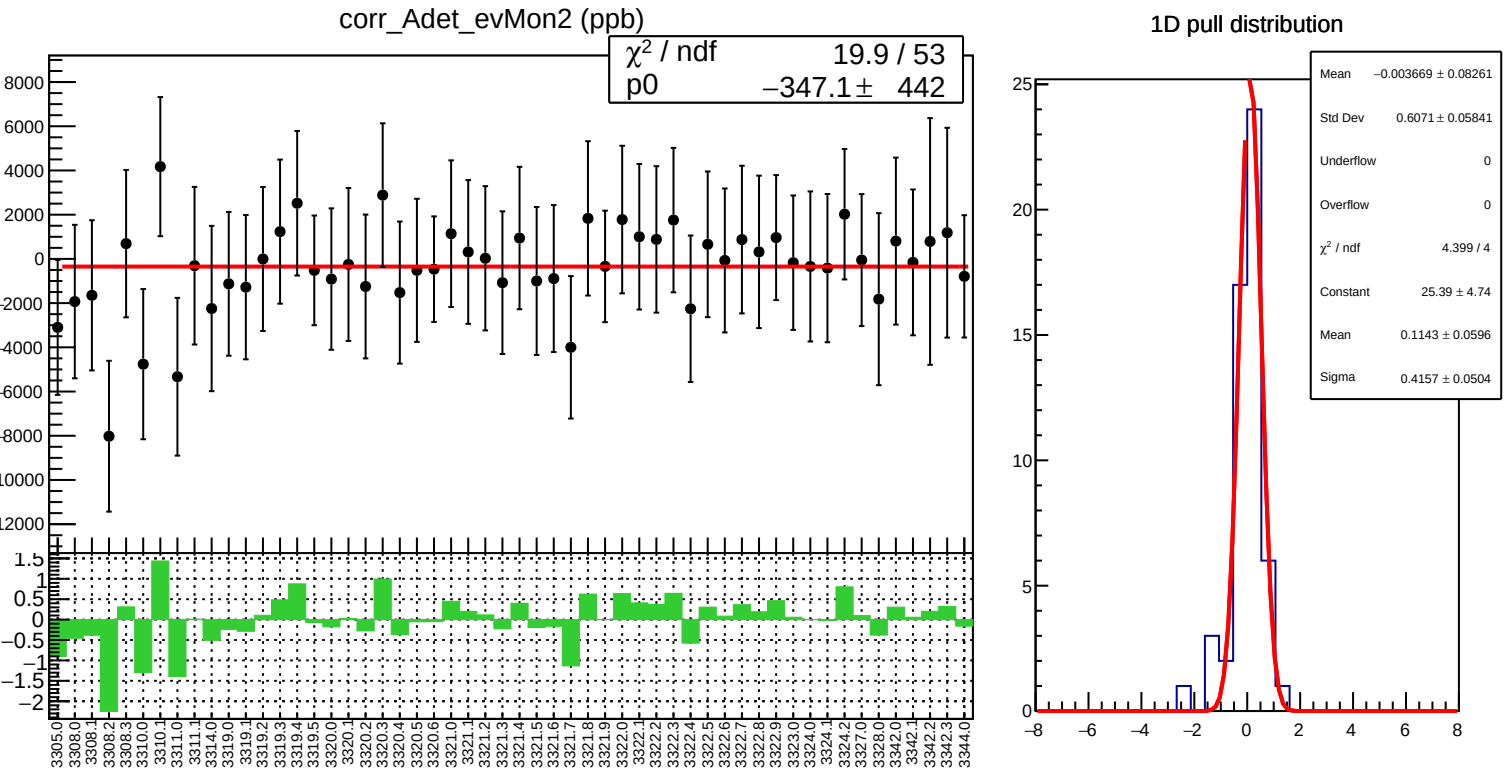

1D pull distribution
Mean 0.05079 ± 0.3772
Std Dev 2.694 ± 0.2668
Underflow 2
Overflow 1
χ² / ndf 16.97 / 17
Constant 5.986 ± 2.145
Mean 0.2833 ± 0.2127
Sigma 1.214 ± 0.393
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

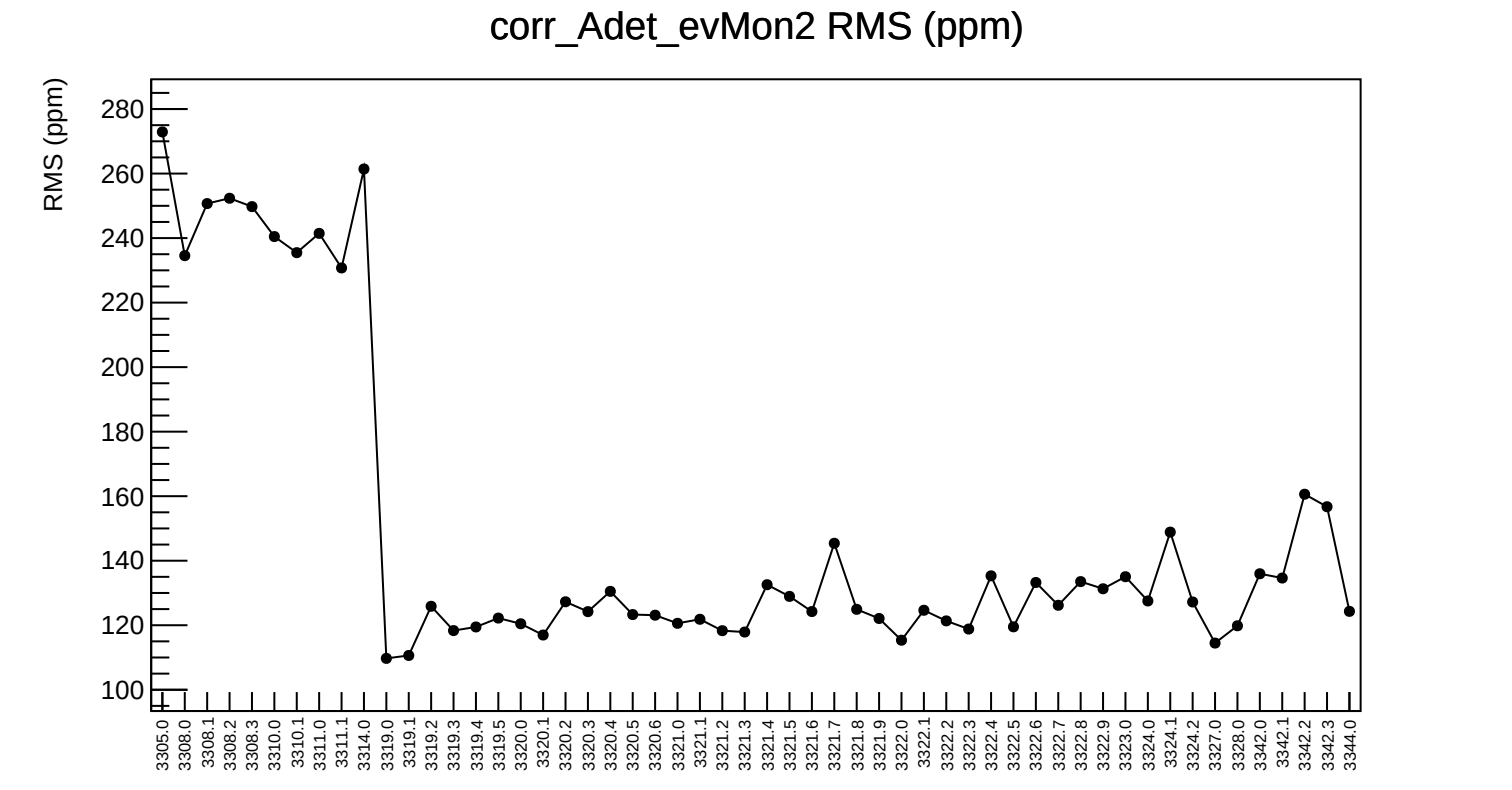

corr_Adet_evMon0 RMS (ppm)
RMS (ppm)
1400
1200
1000
800
600
400
200
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

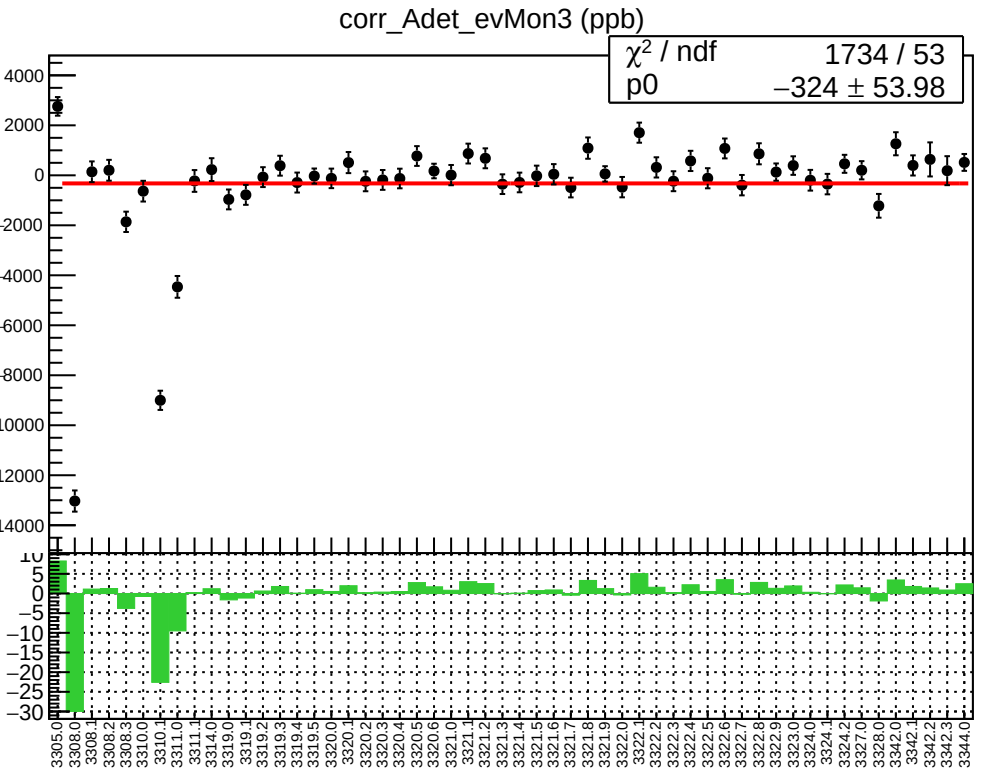

corr_Adet_evMon1 (ppb)
χ² / ndf 1428 / 53
p0 −427 ± 127.2
10000
5000
0
-5000
10000
15000
10
5
0
−5
−10
−15
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

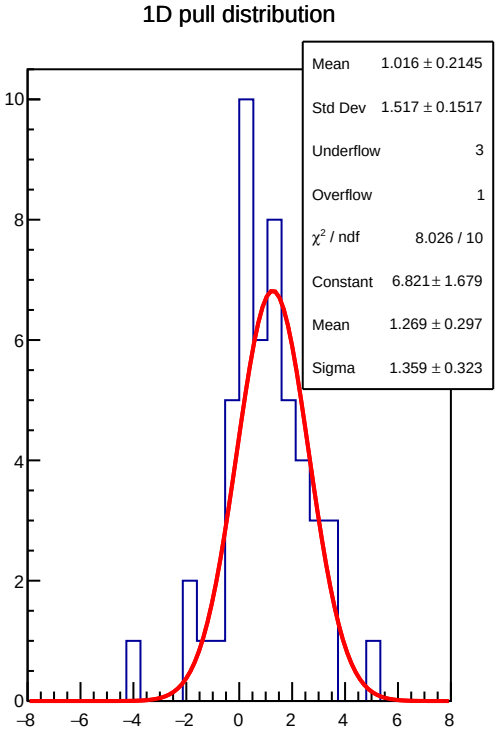

1D pull distribution
Mean 0.2032 ± 0.4457
Std Dev 3.023 ± 0.3151
Underflow 5
Overflow 3
χ² / ndf 10.56 / 18
Constant 2.178 ± 0.504
Mean −0.6388 ± 1.4498
Sigma 4.941 ± 1.945
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

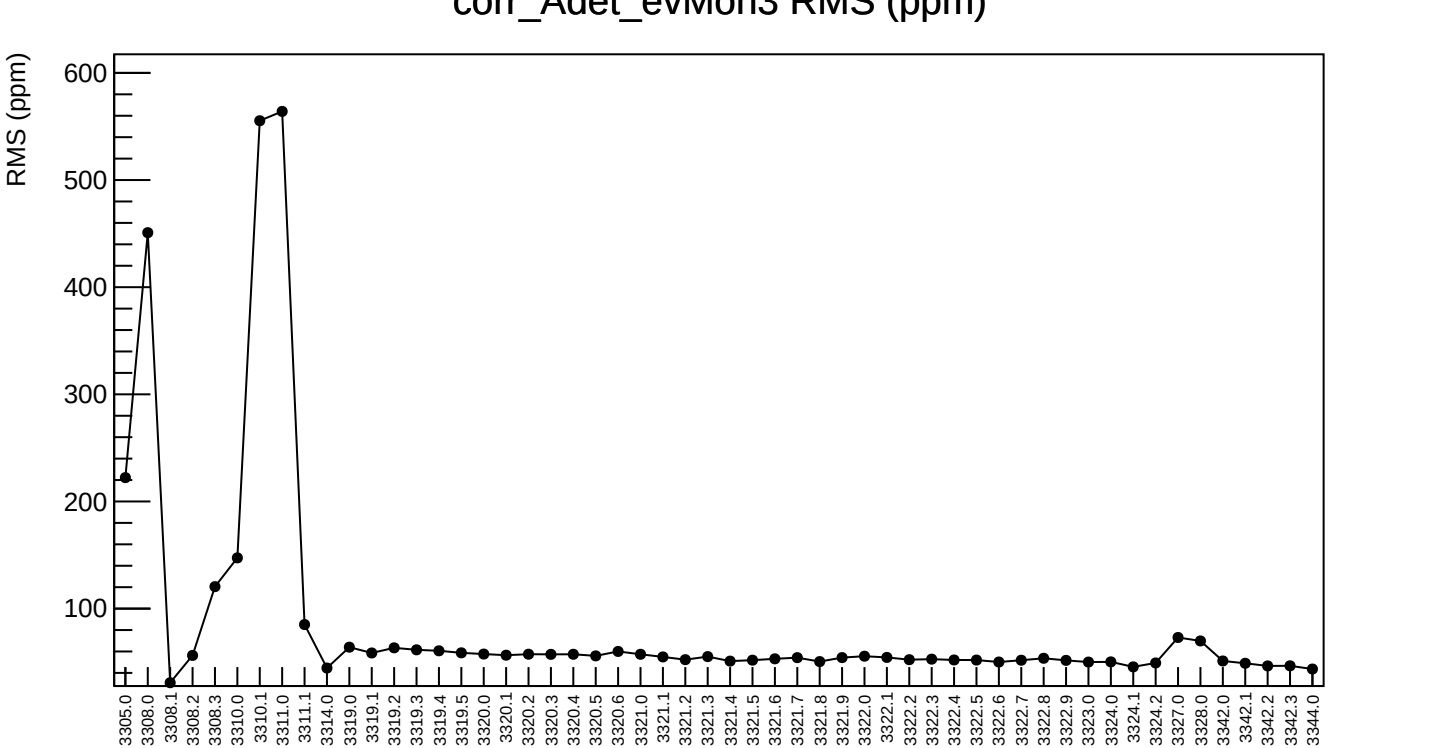

corr_Adet_evMon1 RMS (ppm)
RMS (ppm)
800
700
600
500
400
300
200
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

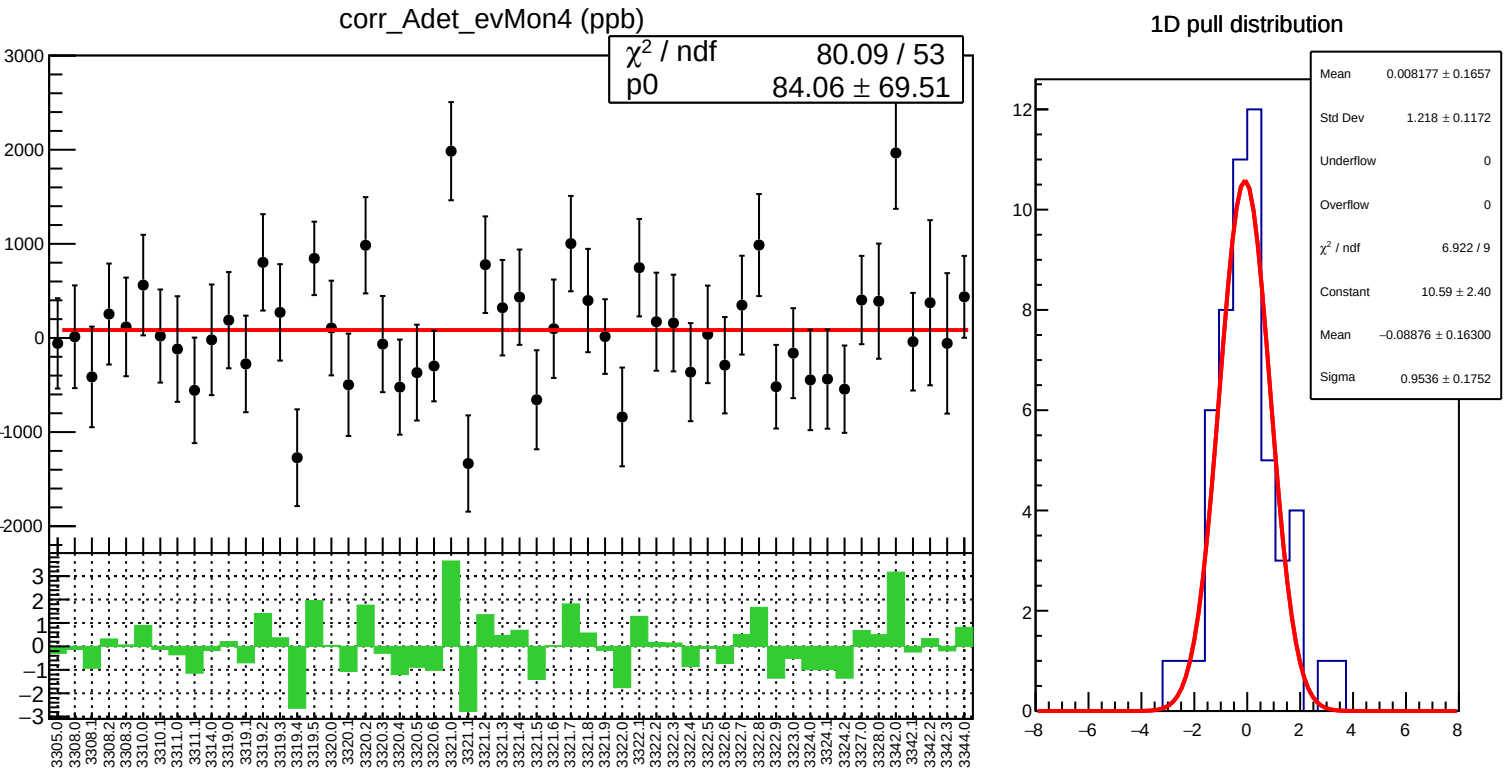

corr_Adet_evMon2 (ppb)
χ² / ndf 19.9 / 53
p0 −347.1 ± 442
1D pull distribution
Mean −0.003669 ± 0.08261
Std Dev 0.6071 ± 0.05841
Underflow 0
Overflow 0
χ² / ndf 4.399 / 4
Constant 25.39 ± 4.74
Mean 0.1143 ± 0.0596
Sigma 0.4157 ± 0.0504

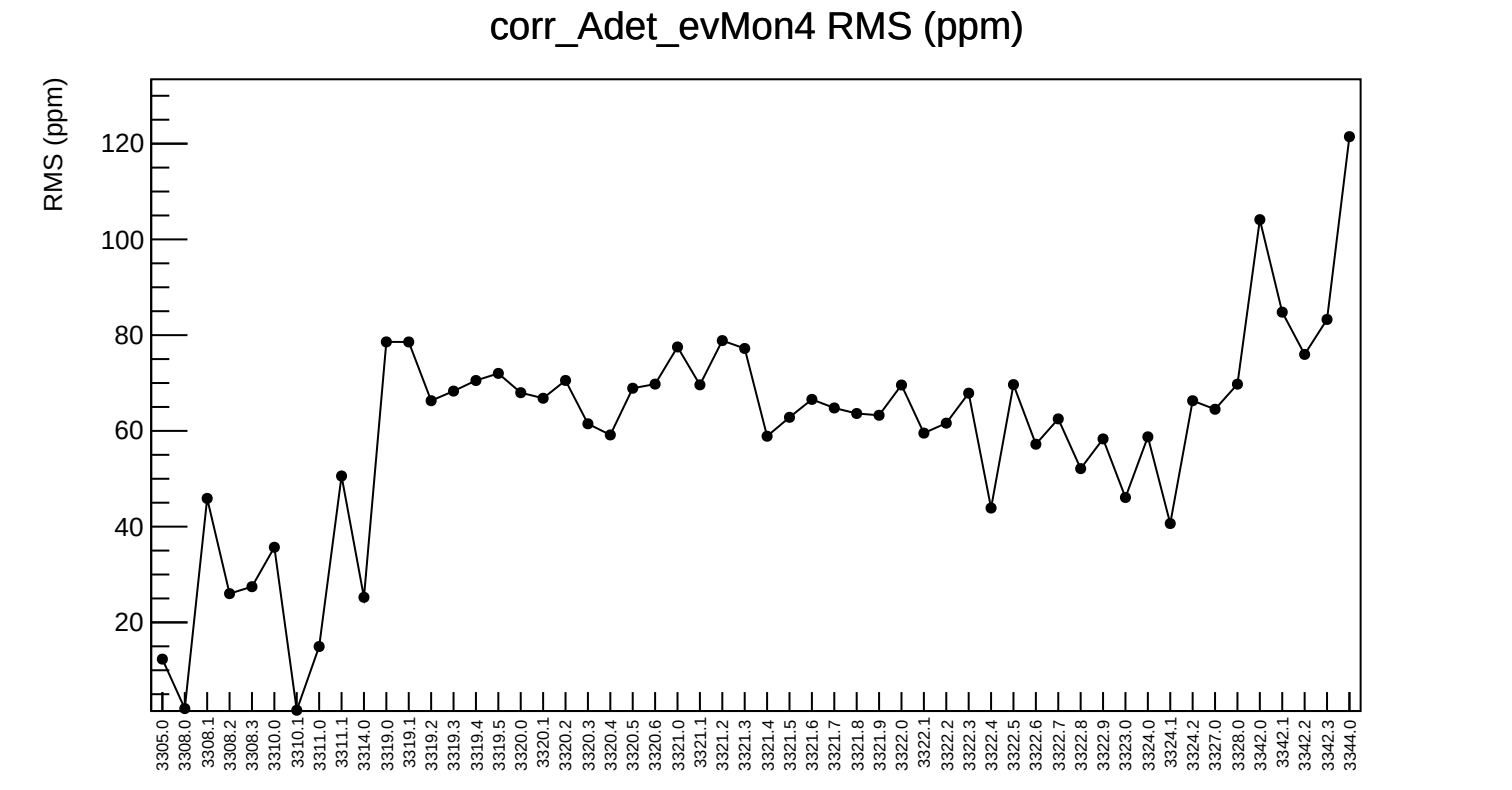

corr_Adet_evMon2 RMS (ppm)
RMS (ppm)
280
260
240
220
200
180
160
140
120
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

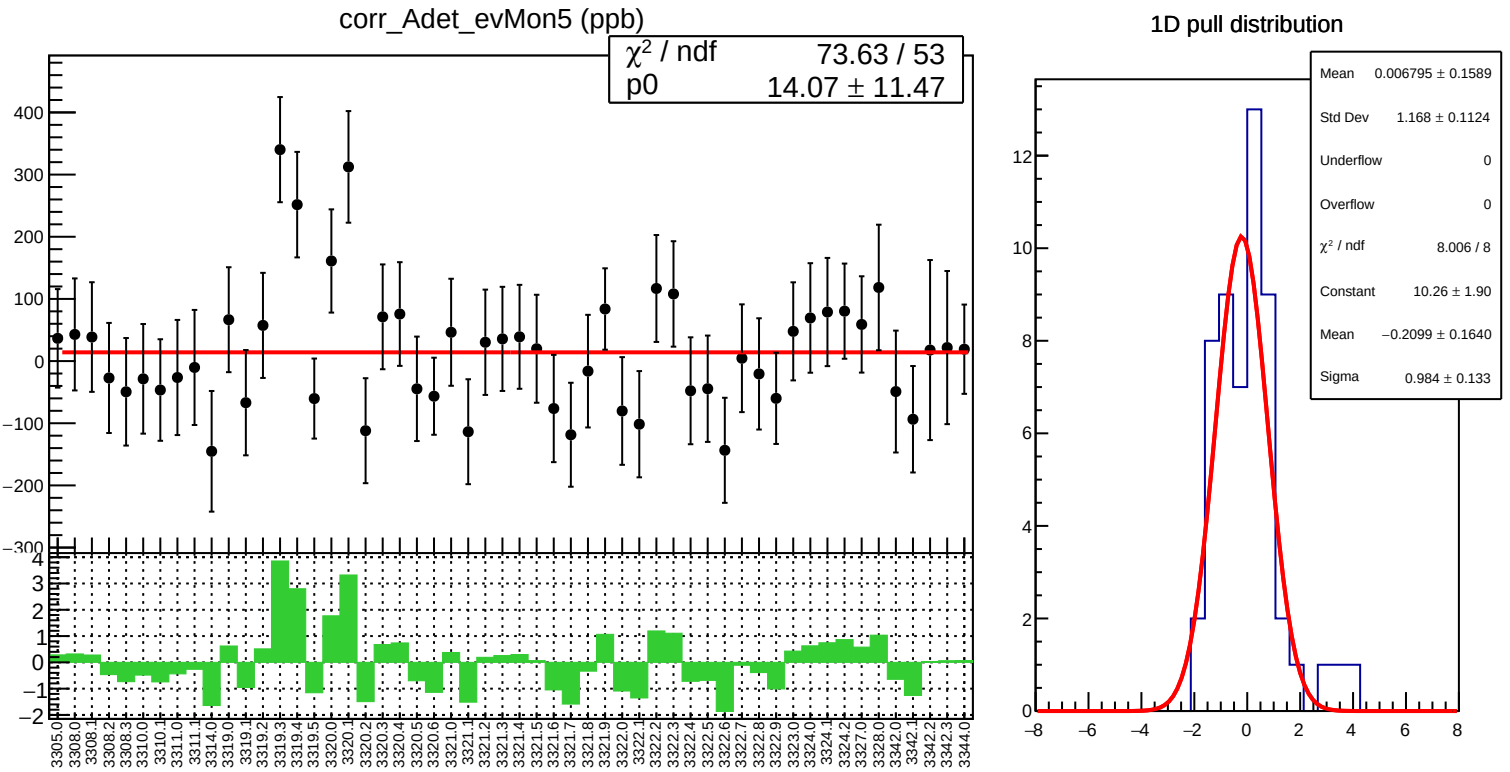

corr_Adet_evMon3 (ppb)
χ² / ndf 1734 / 53
p0 −324 ± 53.98
4000
2000
0
-2000
-4000
-6000
-8000
-10000
-12000
-14000
10
5
0
−5
−10
−15
−20
−25
−30
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

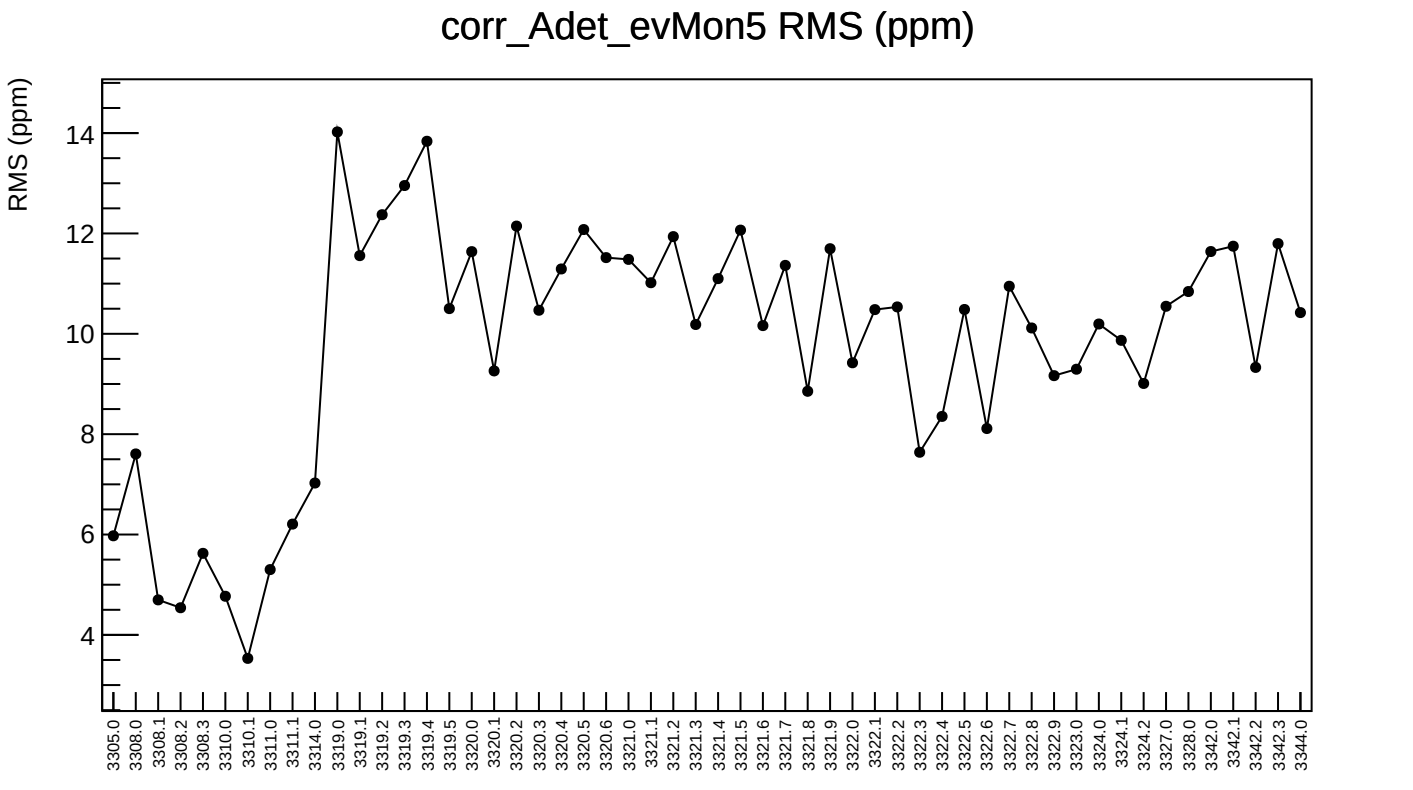

1D pull distribution
Mean 1.016 ± 0.2145
Std Dev 1.517 ± 0.1517
Underflow 3
Overflow 1
χ² / ndf 8.026 / 10
Constant 6.821 ± 1.679
Mean 1.269 ± 0.297
Sigma 1.359 ± 0.323
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

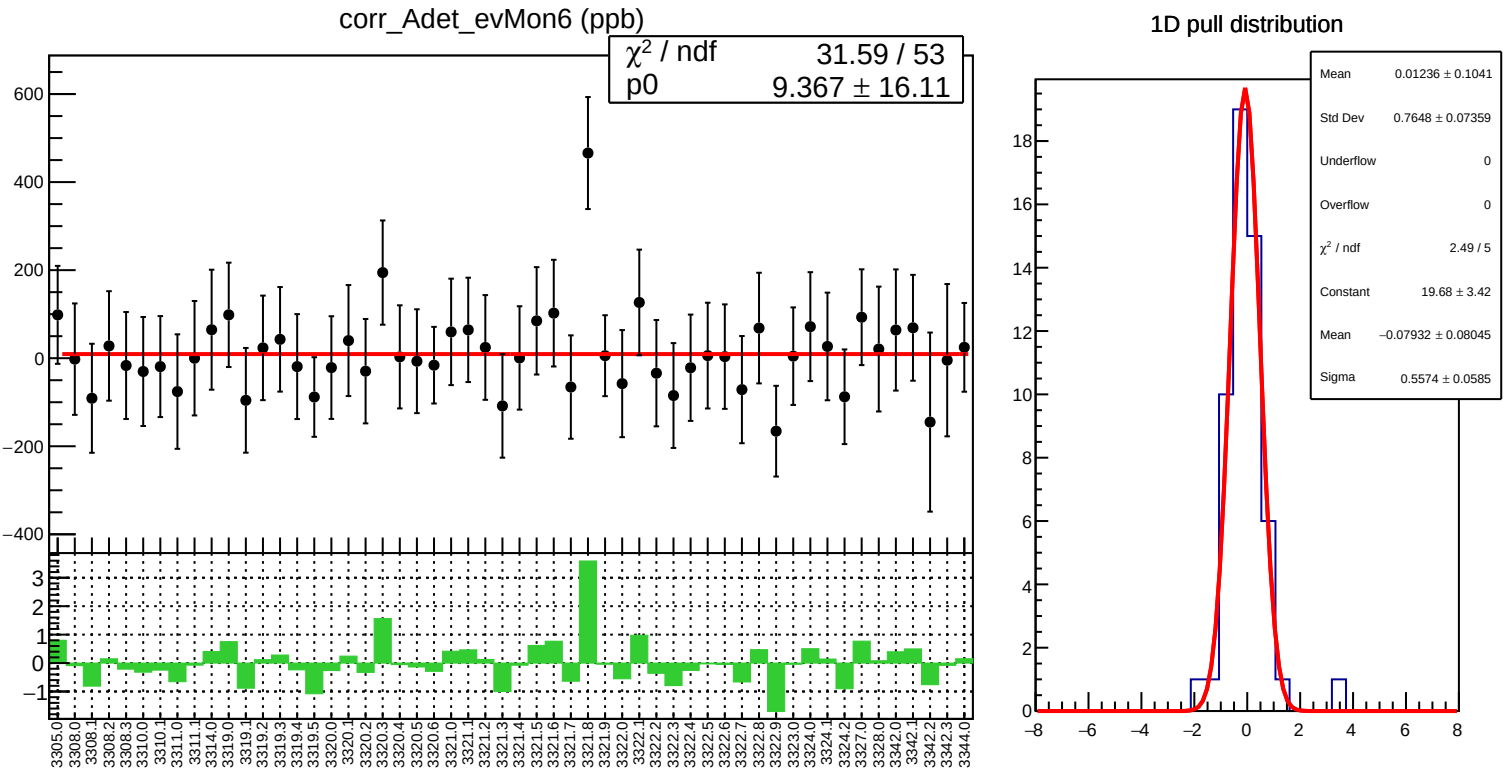

corr_Adet_evMon3 RMS (ppm)
RMS (ppm)
600
500
400
300
200
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

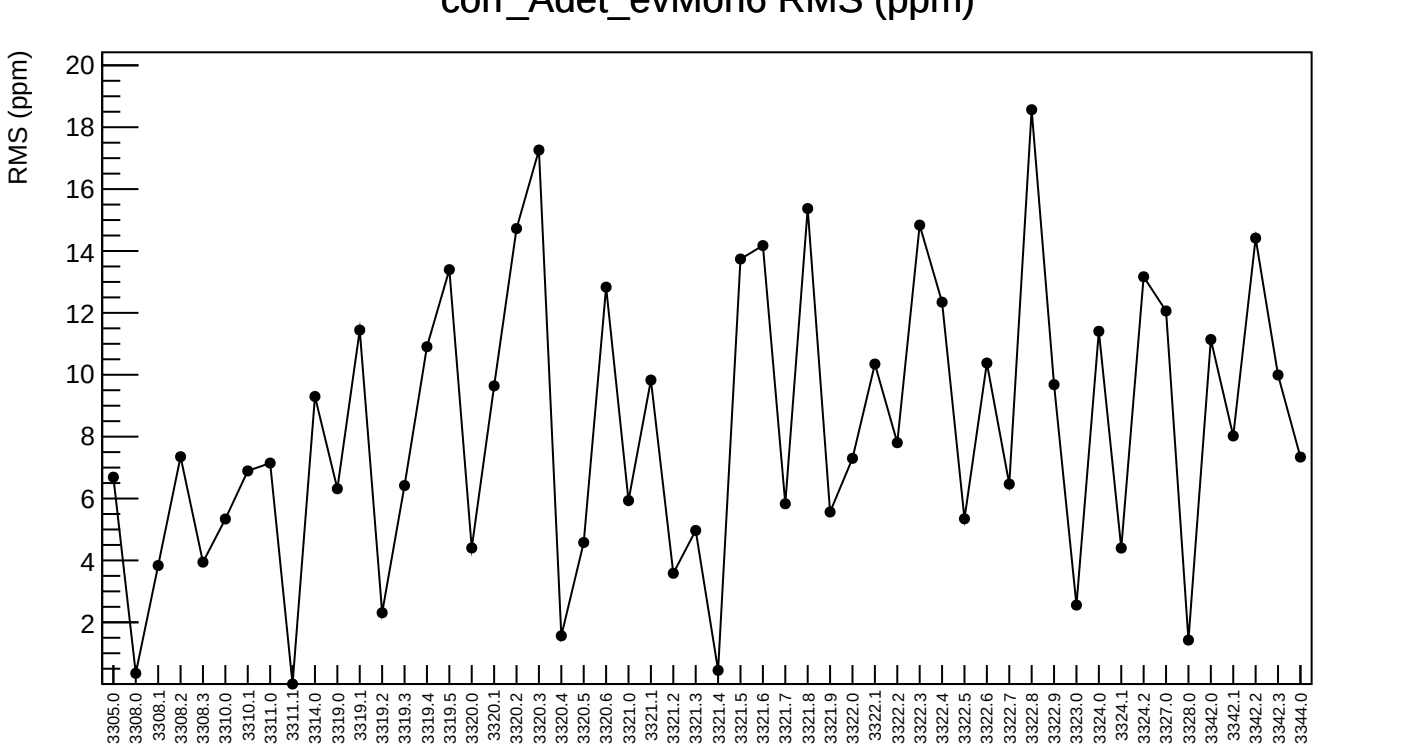

corr_Adet_evMon4 (ppb)
χ² / ndf 80.09 / 53
p0 84.06 ± 69.51
3000
2000
1000
0
-1000
-2000
3
2
1
0
−1
−2
−3
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0
1D pull distribution
Mean 0.008177 ± 0.1657
Std Dev 1.218 ± 0.1172
Underflow 0
Overflow 0
χ² / ndf 6.922 / 9
Constant 10.59 ± 2.40
Mean −0.08876 ± 0.16300
Sigma 0.9536 ± 0.1752
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

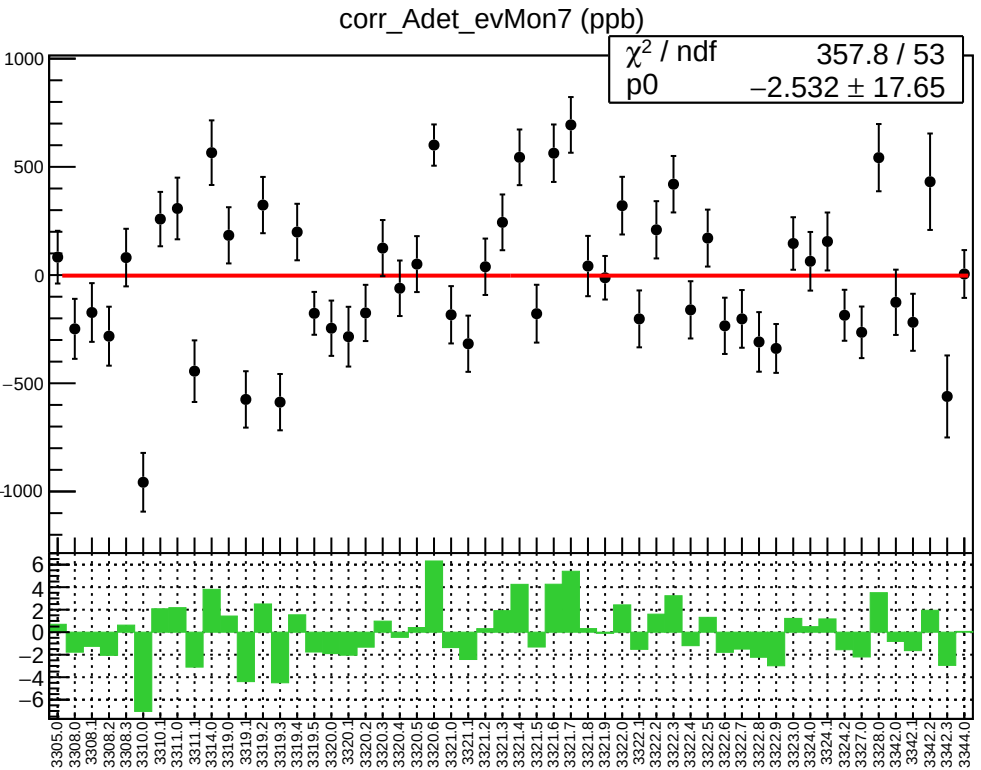

corr_Adet_evMon4 RMS (ppm)
RMS (ppm)
120
100
80
60
40
20
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

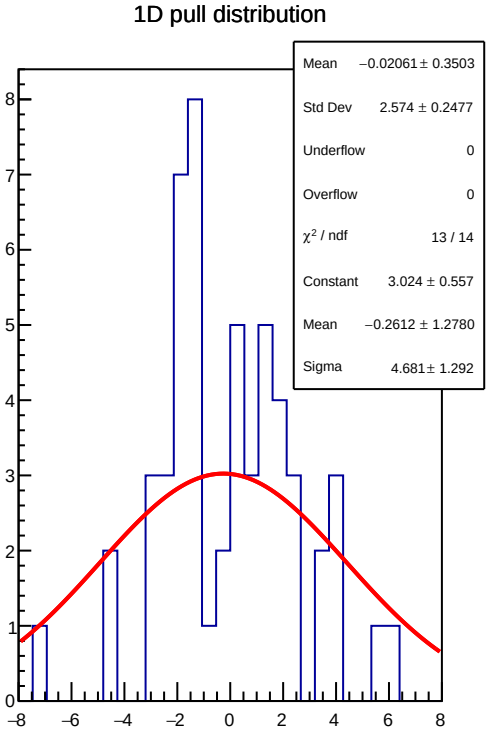

corr_Adet_evMon5 (ppb)
χ² / ndf 73.63 / 53
p0 14.07 ± 11.47
1D pull distribution
Mean 0.006795 ± 0.1589
Std Dev 1.168 ± 0.1124
Underflow 0
Overflow 0
χ² / ndf 8.006 / 8
Constant 10.26 ± 1.90
Mean −0.2099 ± 0.1640
Sigma 0.984 ± 0.133

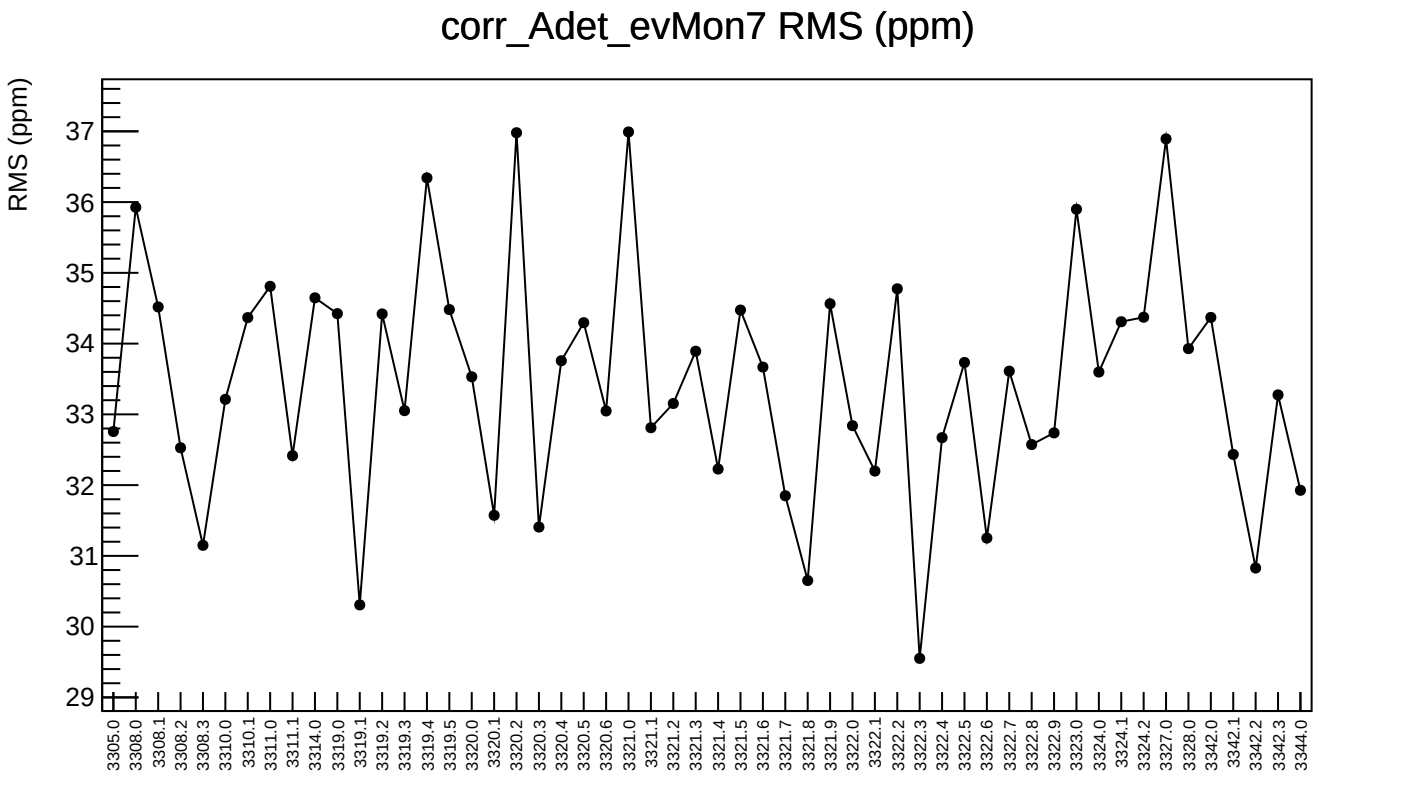

corr_Adet_evMon5 RMS (ppm)
RMS (ppm)
14
12
10
8
6
4
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

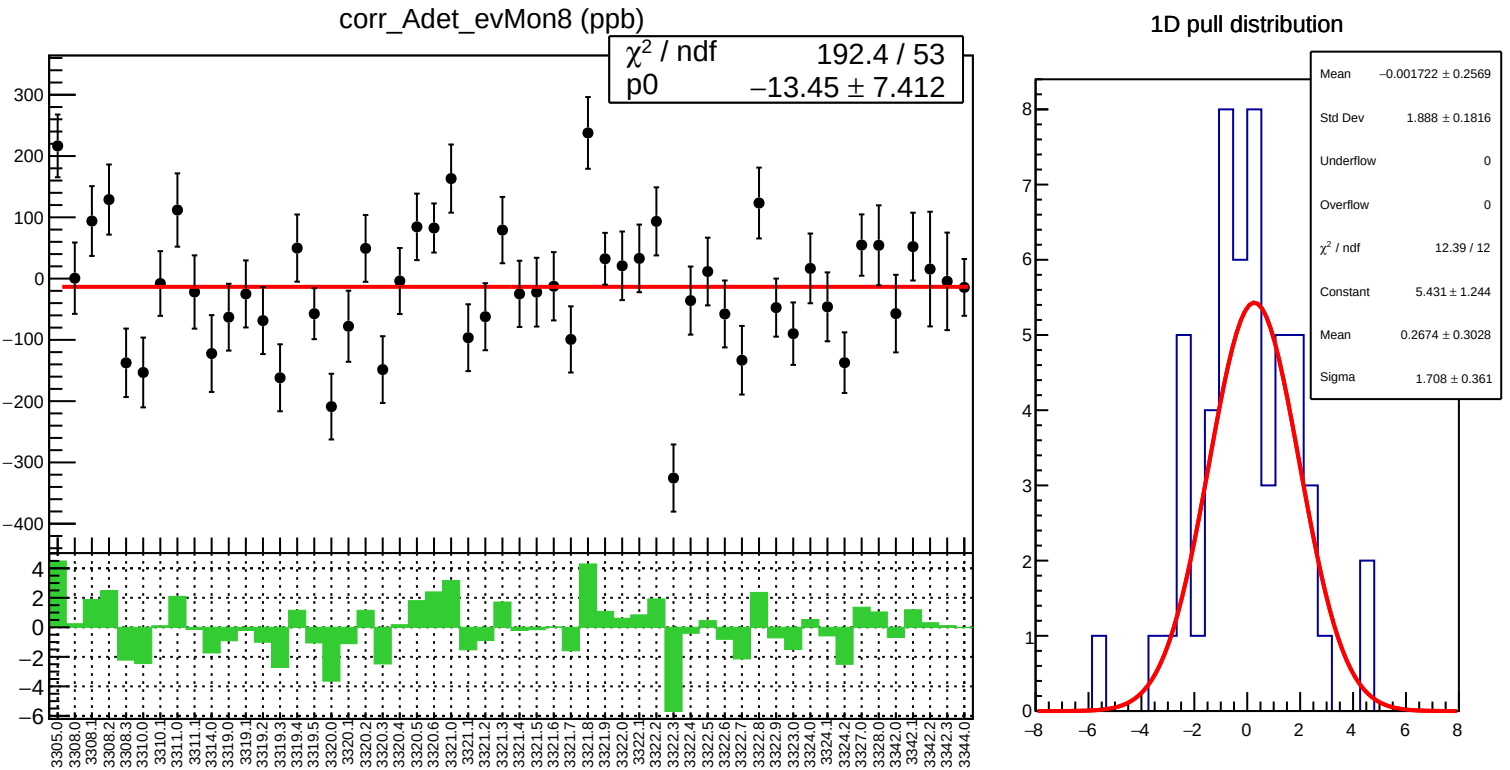

corr_Adet_evMon6 (ppb)
χ² / ndf 31.59 / 53
p0 9.367 ± 16.11
1D pull distribution
Mean 0.01236 ± 0.1041
Std Dev 0.7648 ± 0.07359
Underflow 0
Overflow 0
χ² / ndf 2.49 / 5
Constant 19.68 ± 3.42
Mean −0.07932 ± 0.08045
Sigma 0.5574 ± 0.0585

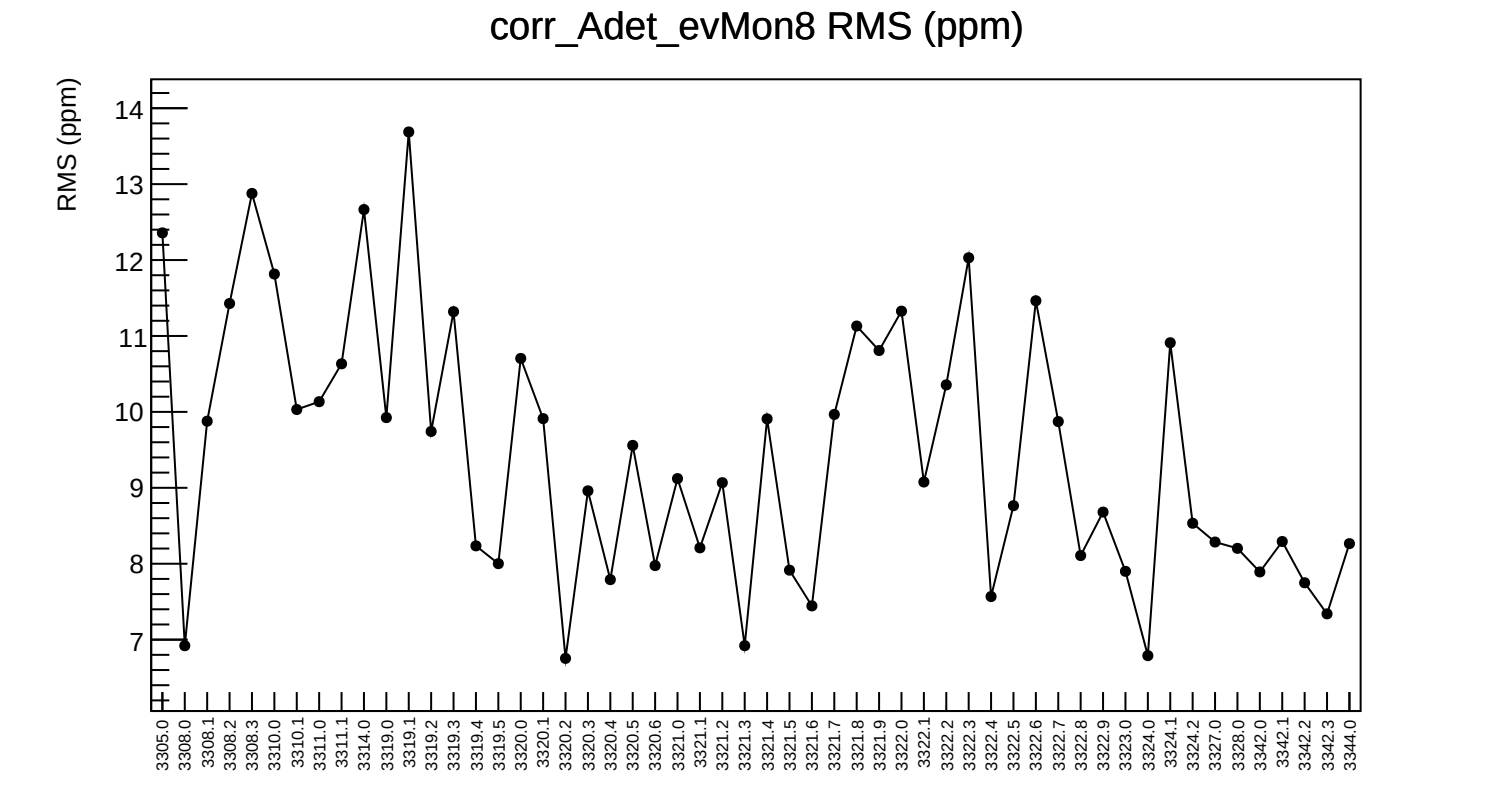

corr_Adet_evMon6 RMS (ppm)
RMS (ppm)
20
18
16
14
12
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

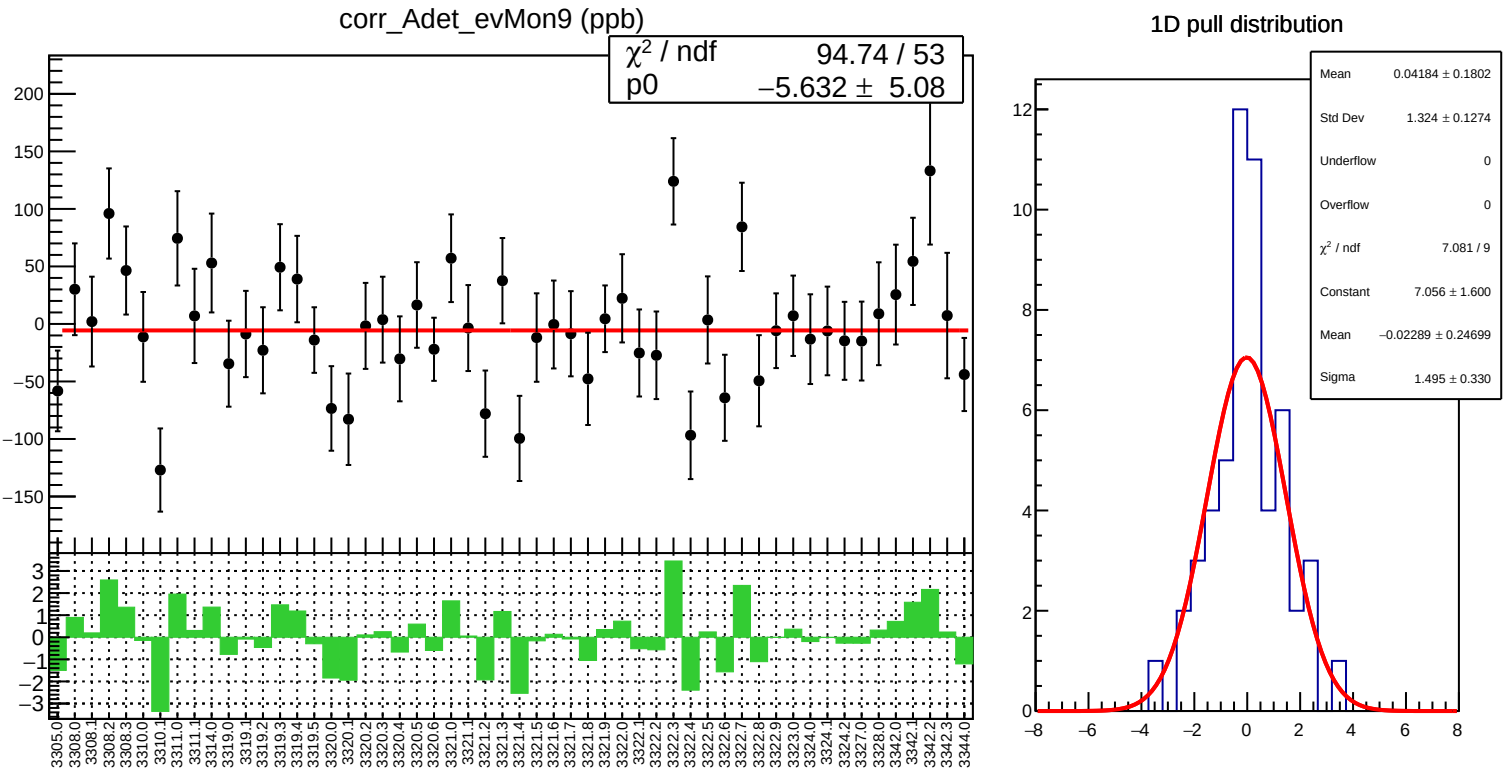

corr_Adet_evMon7 (ppb)
χ² / ndf 357.8 / 53
p0 −2.532 ± 17.65
1000
500
0
−500
−1000
6
4
2
0
−2
−4
−6
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

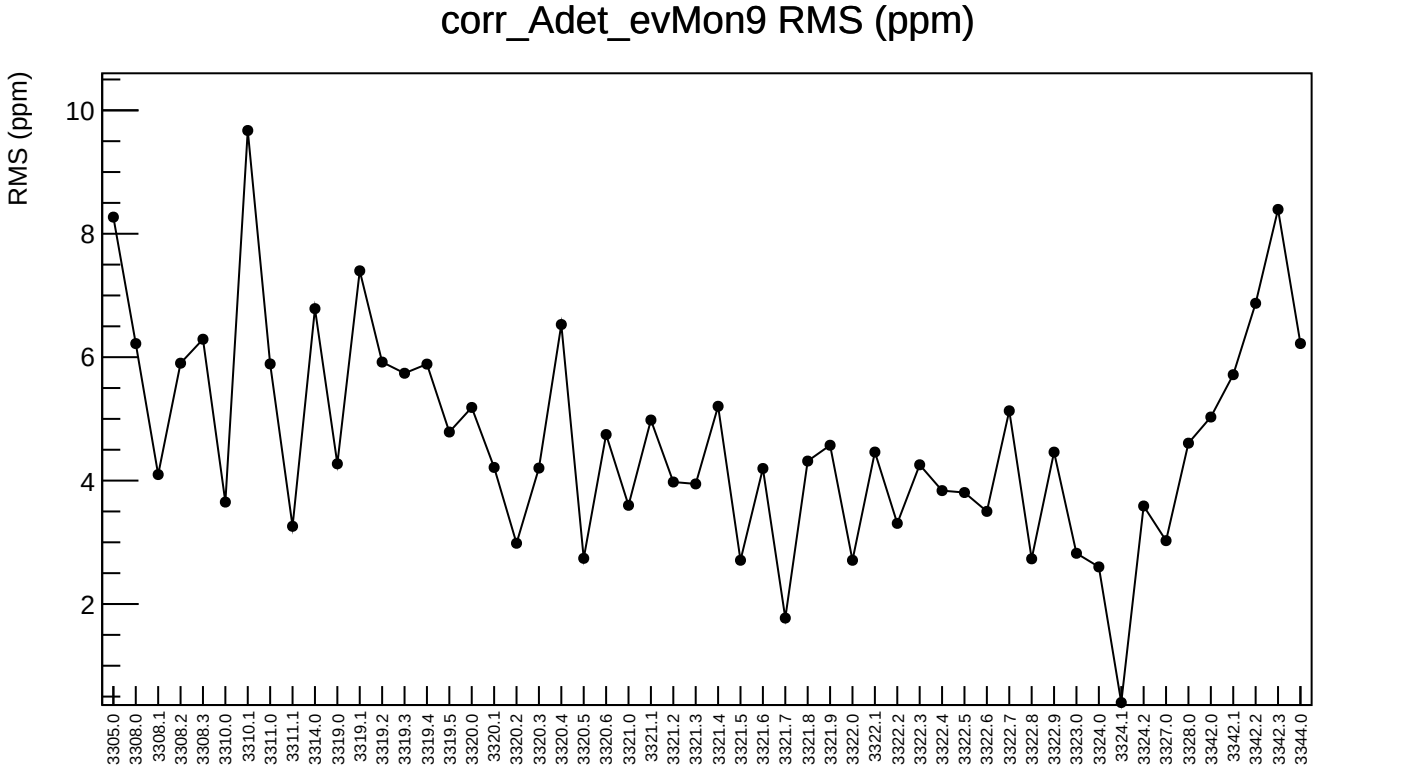

1D pull distribution
Mean −0.02061 ± 0.3503
Std Dev 2.574 ± 0.2477
Underflow 0
Overflow 0
χ² / ndf 13 / 14
Constant 3.024 ± 0.557
Mean −0.2612 ± 1.2780
Sigma 4.681 ± 1.292
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

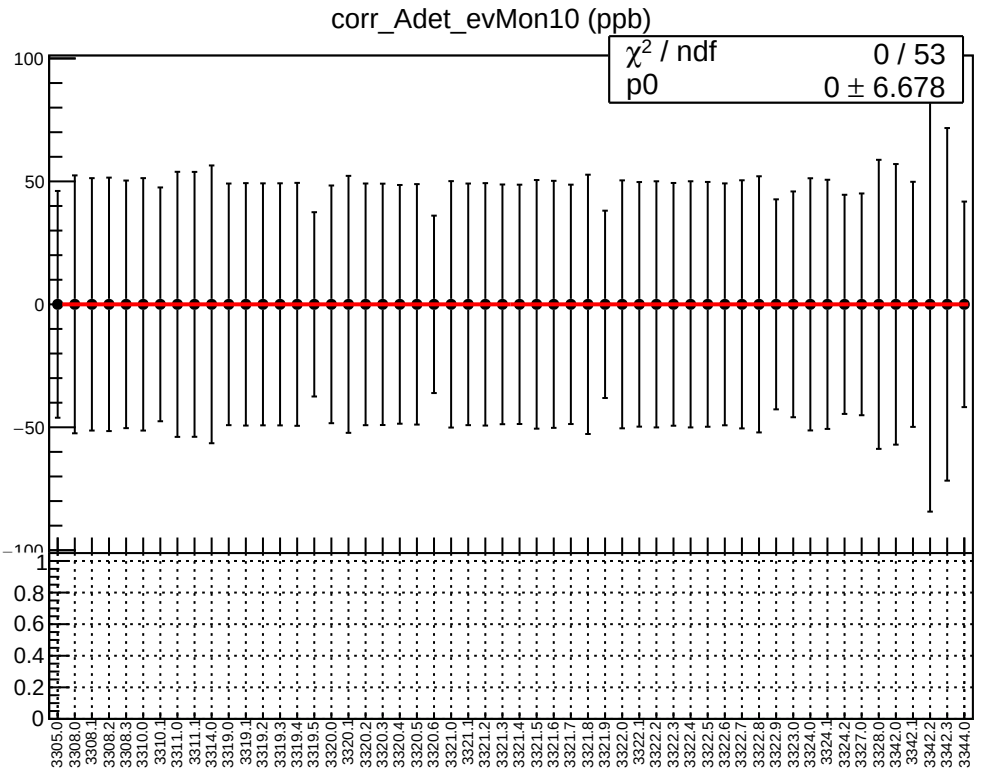

corr_Adet_evMon7 RMS (ppm)
RMS (ppm)
37
36
35
34
33
32
31
30
29
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

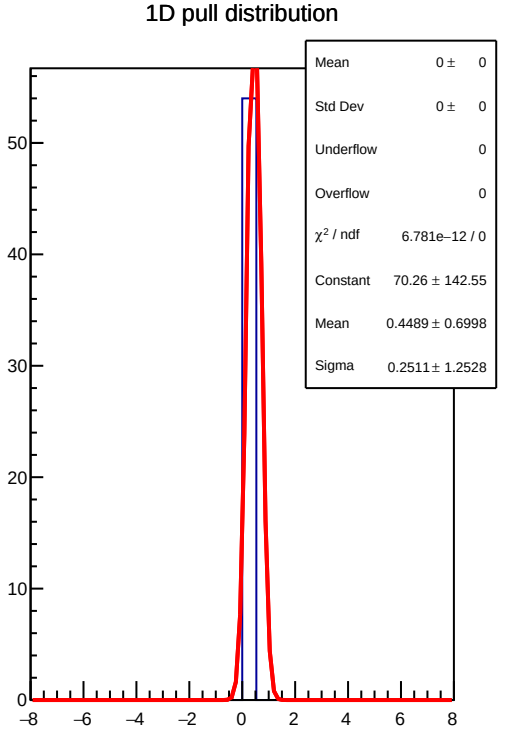

corr_Adet_evMon8 (ppb)
χ² / ndf 192.4 / 53
p0 −13.45 ± 7.412
1D pull distribution
Mean −0.001722 ± 0.2569
Std Dev 1.888 ± 0.1816
Underflow 0
Overflow 0
χ² / ndf 12.39 / 12
Constant 5.431 ± 1.244
Mean 0.2674 ± 0.3028
Sigma 1.708 ± 0.361

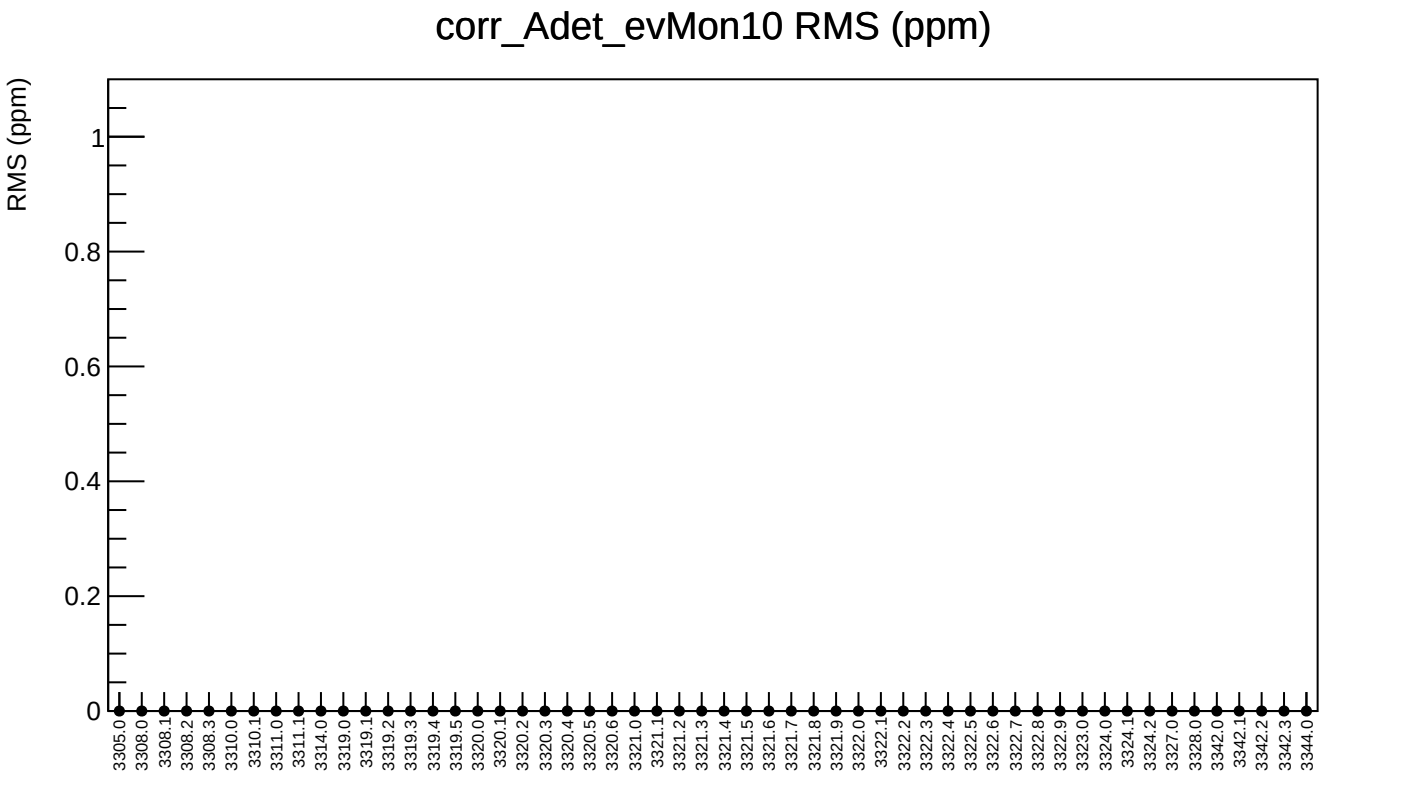

corr_Adet_evMon8 RMS (ppm)
RMS (ppm)
14
13
12
11
10
9
8
7
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

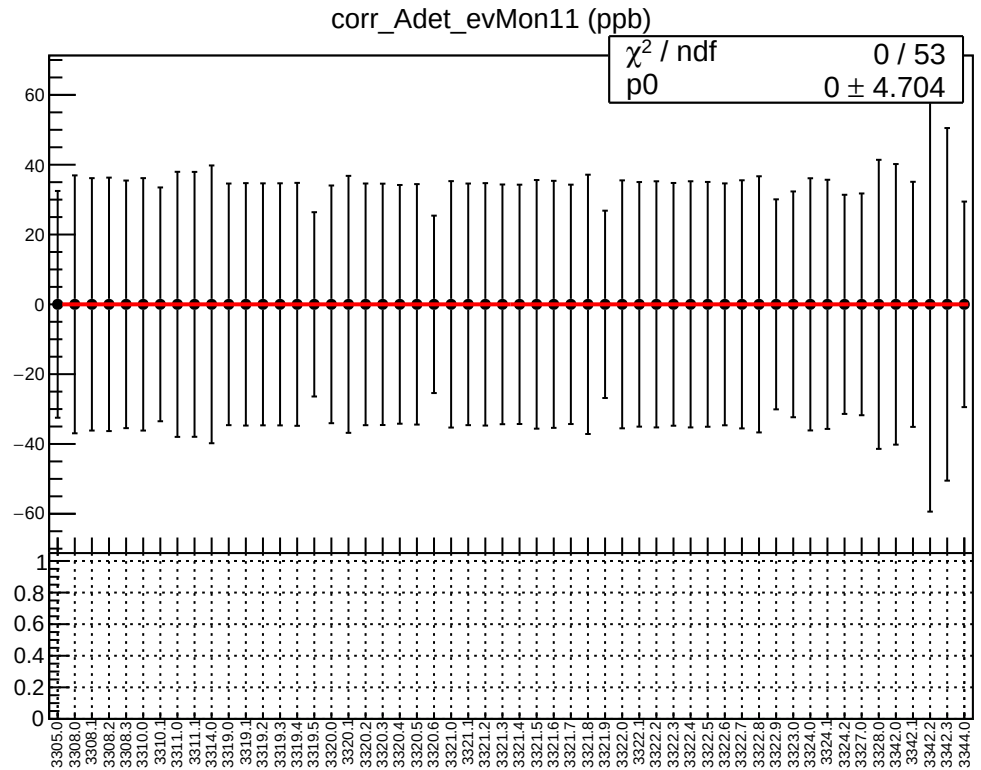

corr_Adet_evMon9 (ppb)
χ² / ndf 94.74 / 53
p0 −5.632 ± 5.08
1D pull distribution
Mean 0.04184 ± 0.1802
Std Dev 1.324 ± 0.1274
Underflow 0
Overflow 0
χ² / ndf 7.081 / 9
Constant 7.056 ± 1.600
Mean −0.02289 ± 0.24699
Sigma 1.495 ± 0.330

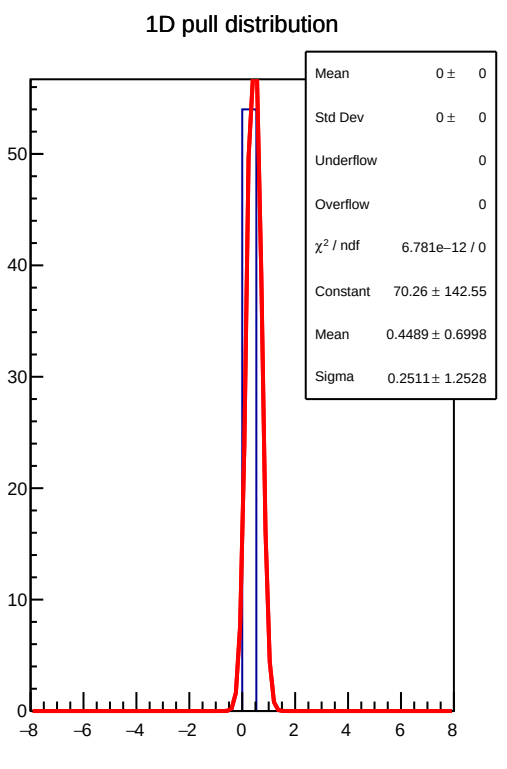

corr_Adet_evMon9 RMS (ppm)
RMS (ppm)
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

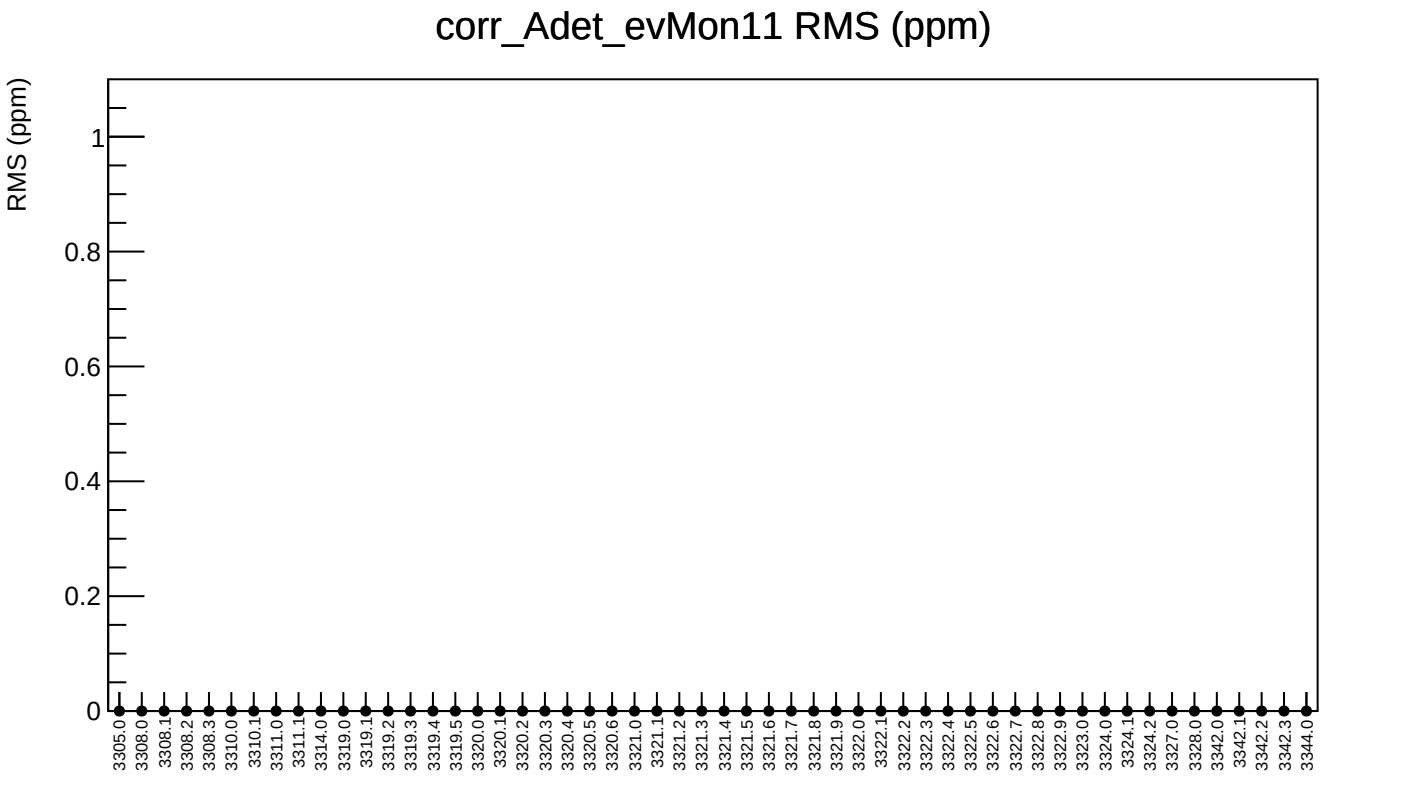

corr_Adet_evMon10 (ppb)
χ² / ndf 0 / 53
p0 0 ± 6.678
100
50
0
−50
−100
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

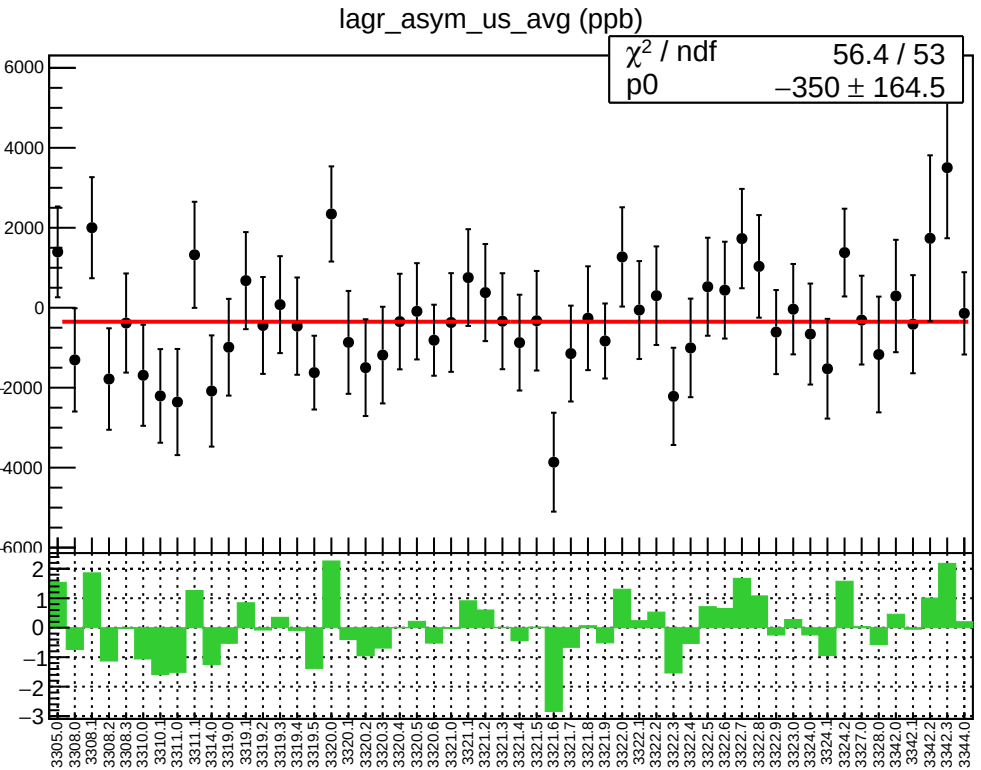

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

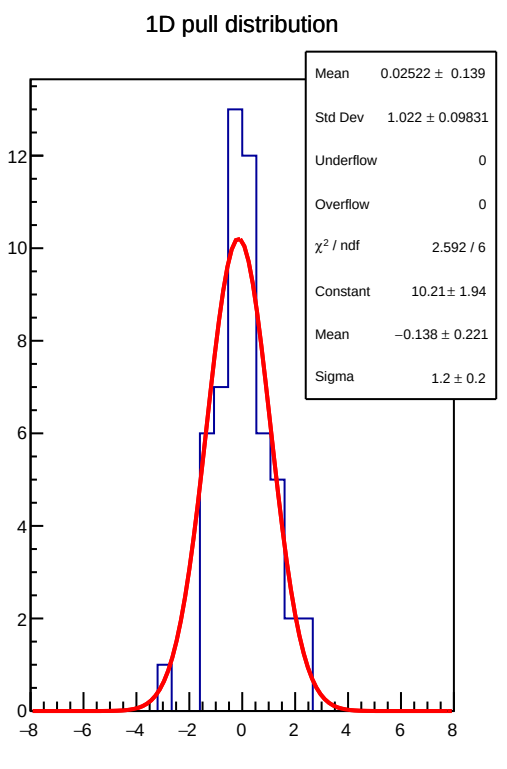

corr_Adet_evMon10 RMS (ppm)
RMS (ppm)
0
0.2
0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

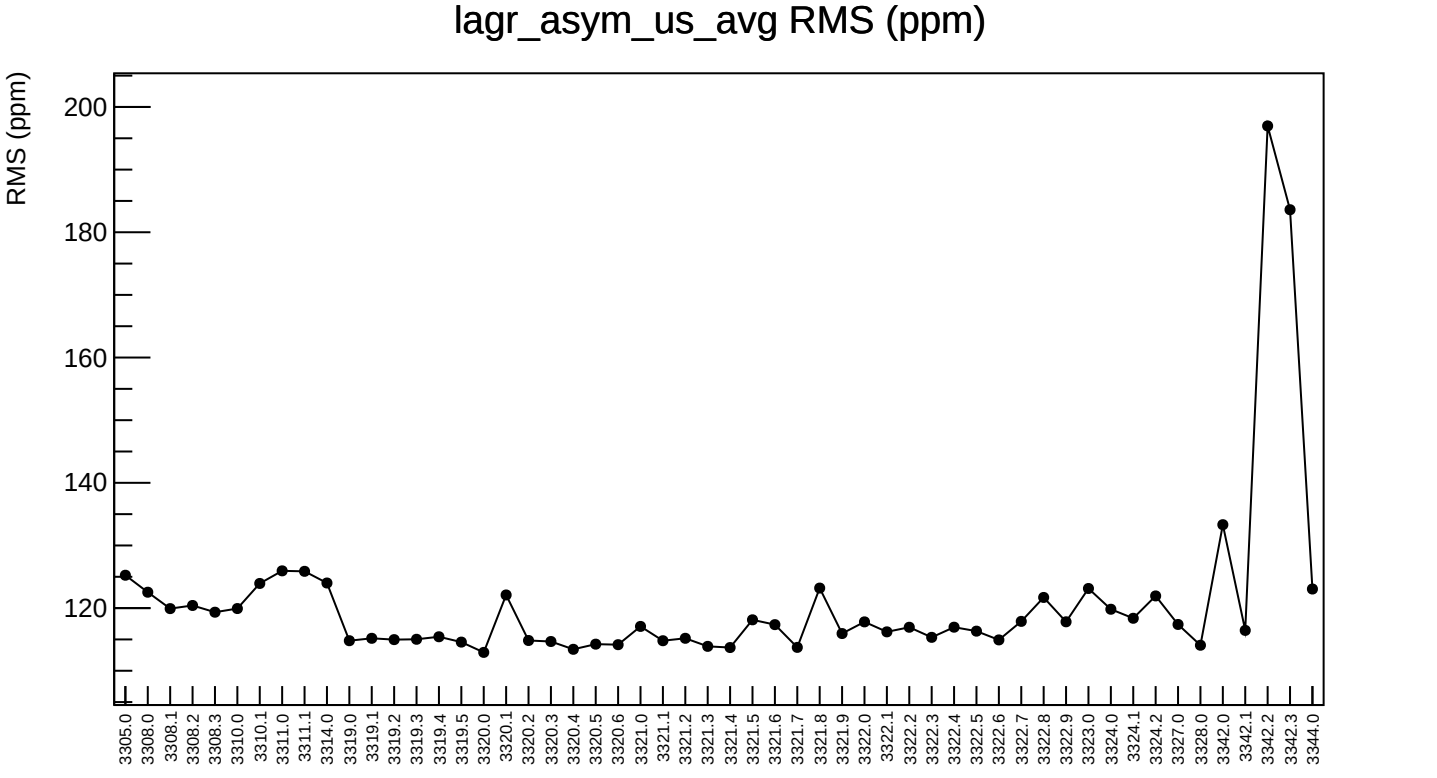

corr_Adet_evMon11 (ppb)
χ² / ndf 0 / 53
p0 0 ± 4.704
60
40
20
0
−20
−40
−60
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

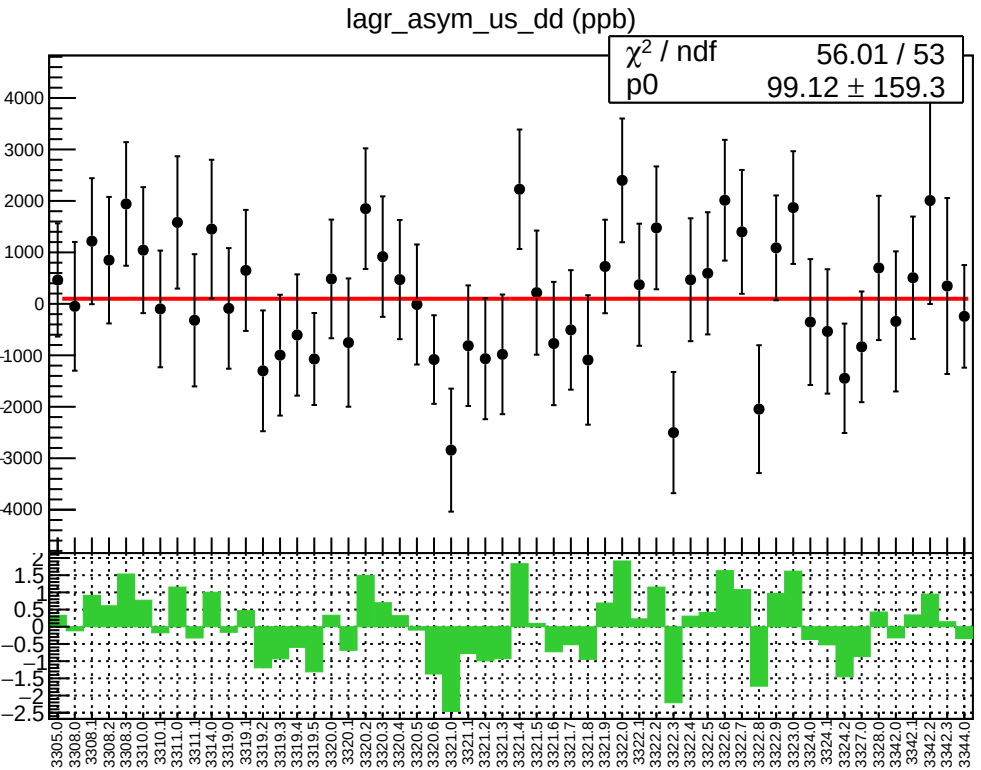

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

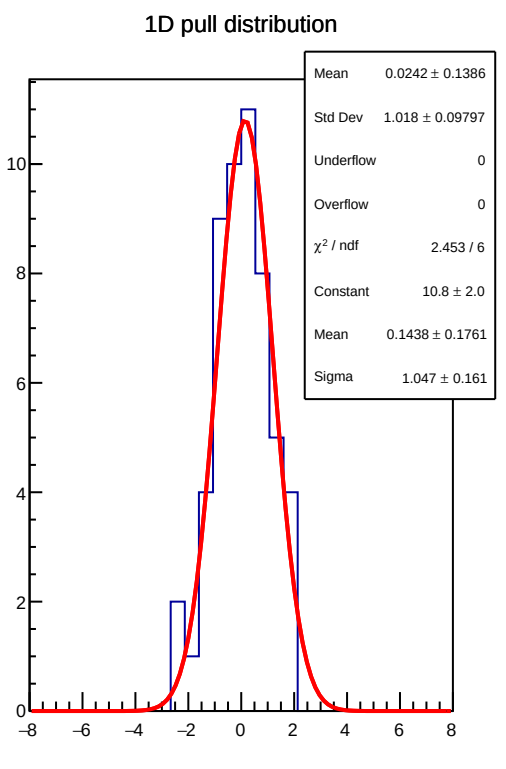

corr_Adet_evMon11 RMS (ppm)
RMS (ppm)
0
0.2
0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

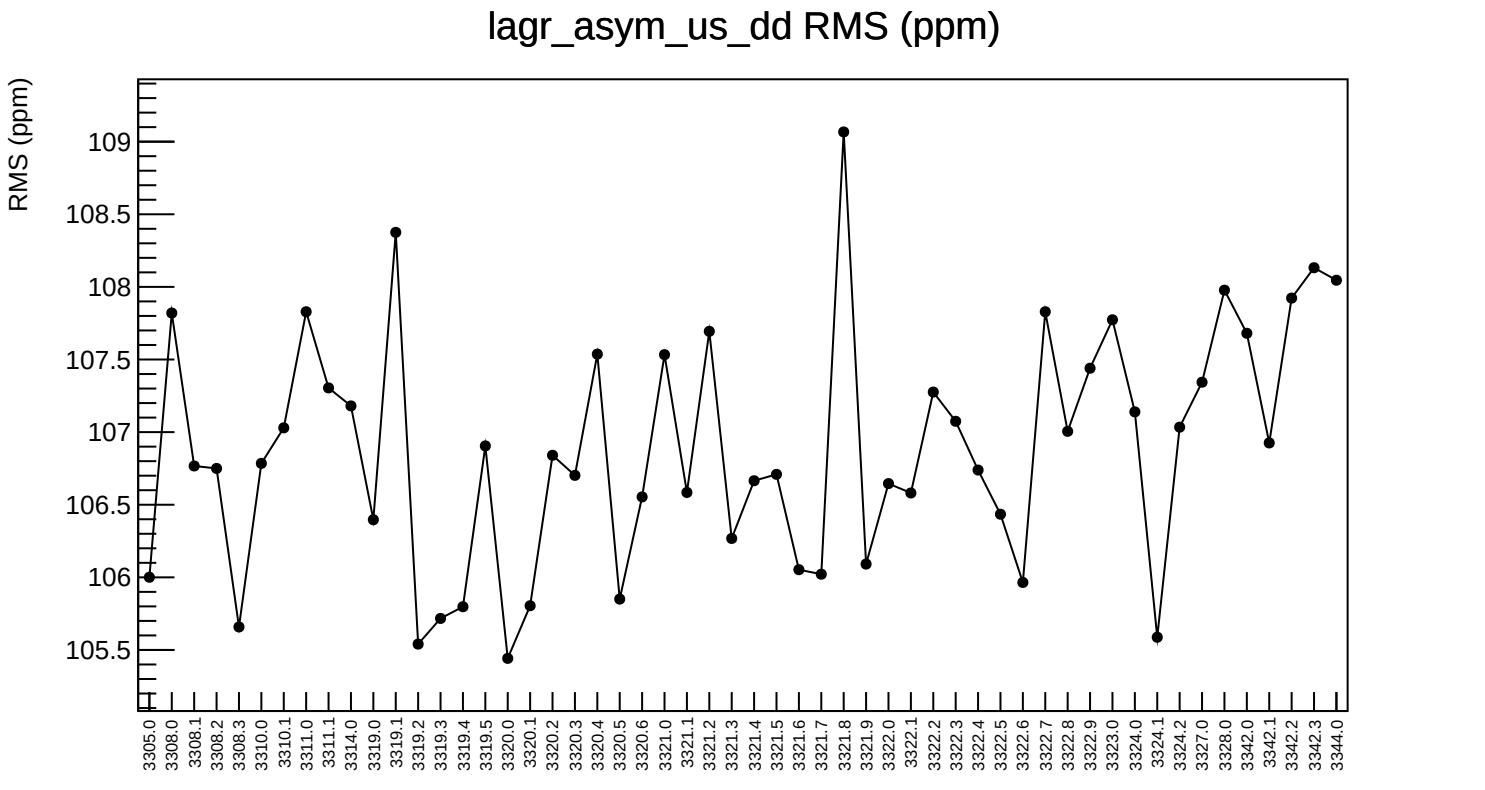

lagr_asym_us_avg (ppb)
χ² / ndf 56.4 / 53
p0 −350 ± 164.5
6000
4000
2000
0
-2000
-4000
-6000
2
1
0
−1
−2
−3
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

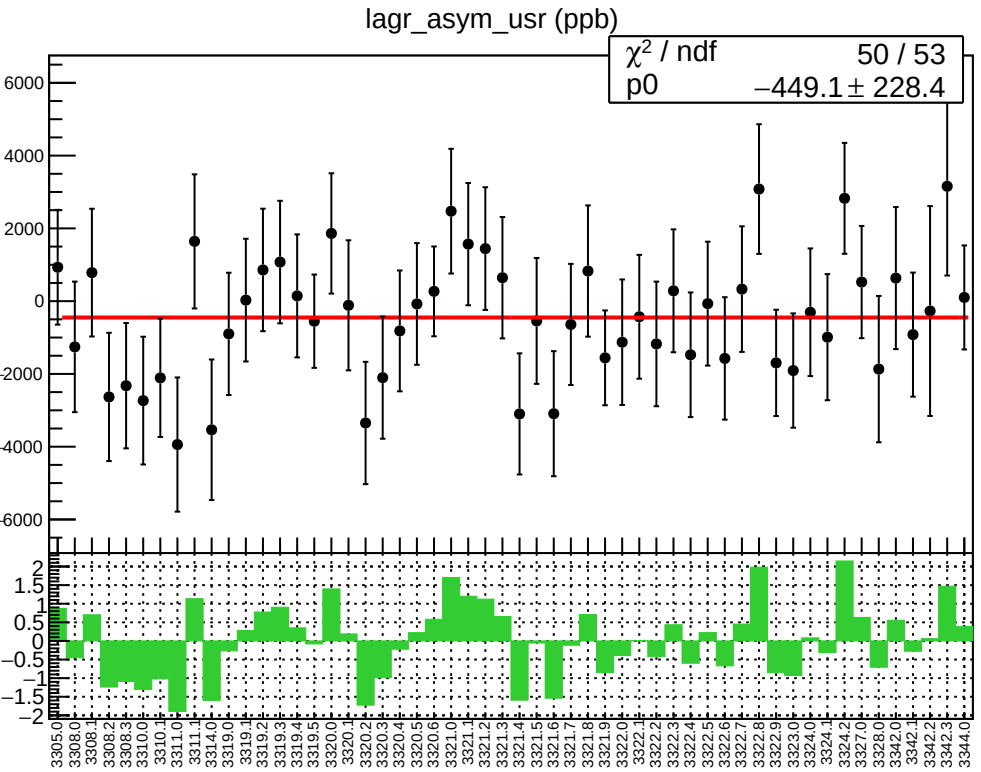

1D pull distribution
Mean 0.02522 ± 0.139
Std Dev 1.022 ± 0.09831
Underflow 0
Overflow 0
χ² / ndf 2.592 / 6
Constant 10.21 ± 1.94
Mean −0.138 ± 0.221
Sigma 1.2 ± 0.2
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

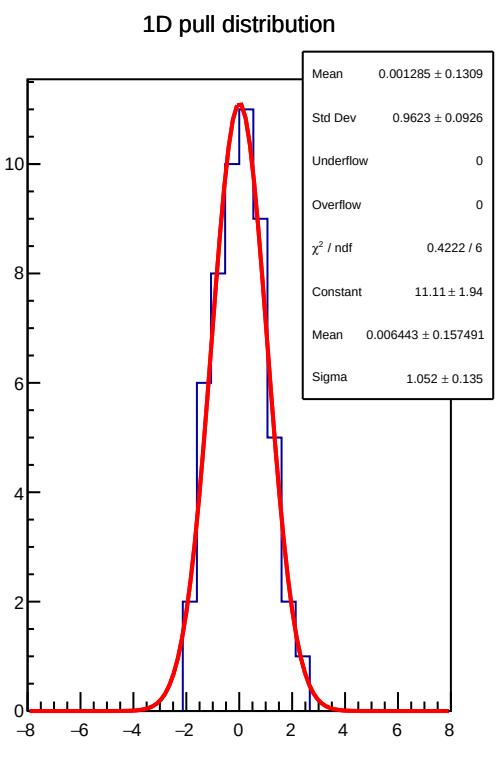

lagr_asym_us_avg RMS (ppm)
RMS (ppm)
200
180
160
140
120
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

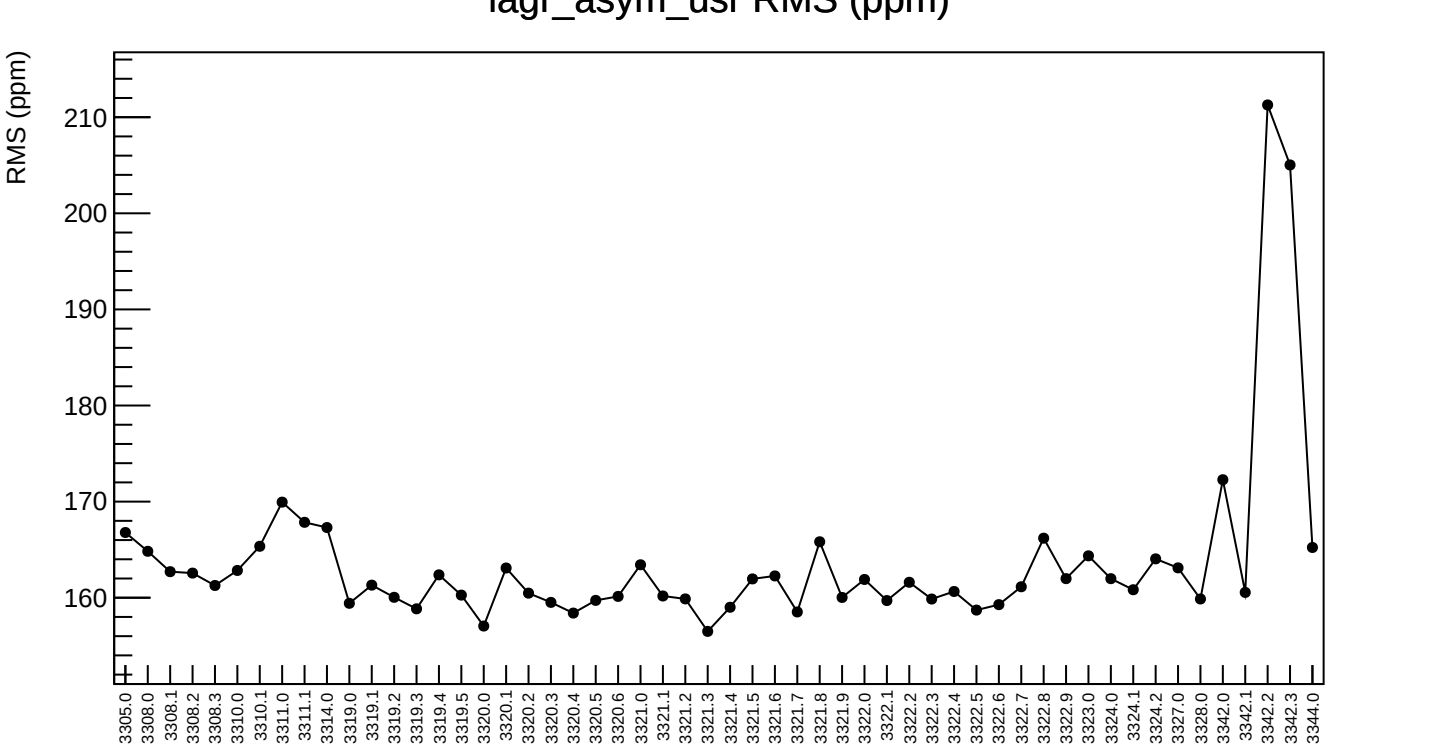

lagr_asym_us_dd (ppb)
χ² / ndf 56.01 / 53
p0 99.12 ± 159.3
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

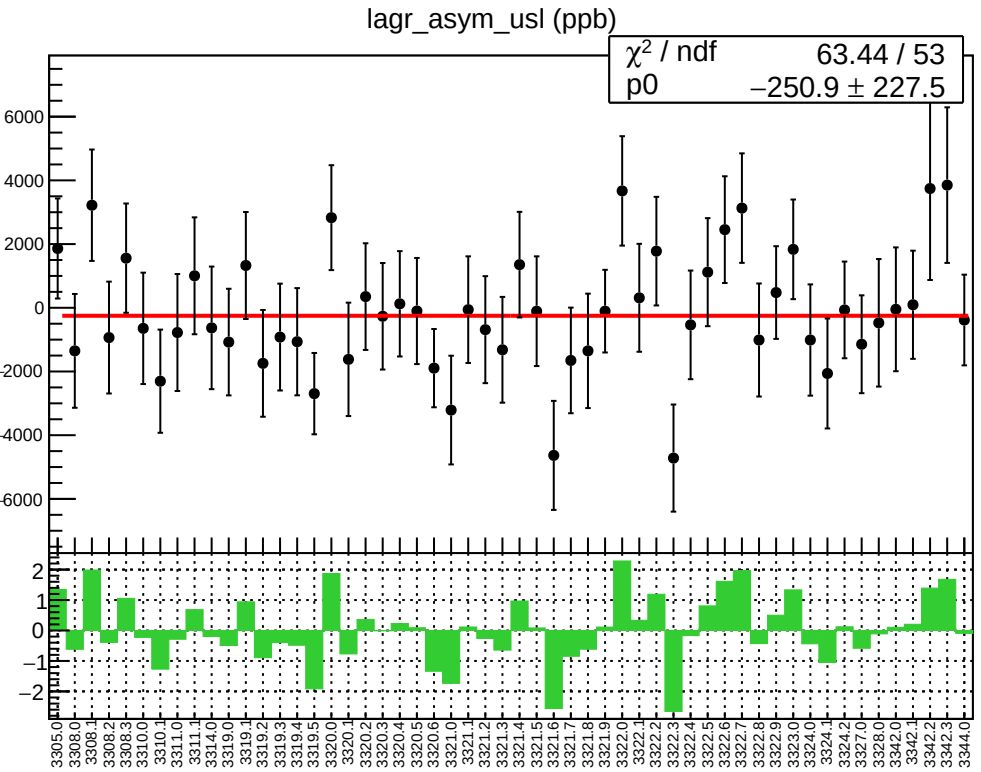

1D pull distribution
Mean 0.0242 ± 0.1386
Std Dev 1.018 ± 0.09797
Underflow 0
Overflow 0
χ² / ndf 2.453 / 6
Constant 10.8 ± 2.0
Mean 0.1438 ± 0.1761
Sigma 1.047 ± 0.161
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

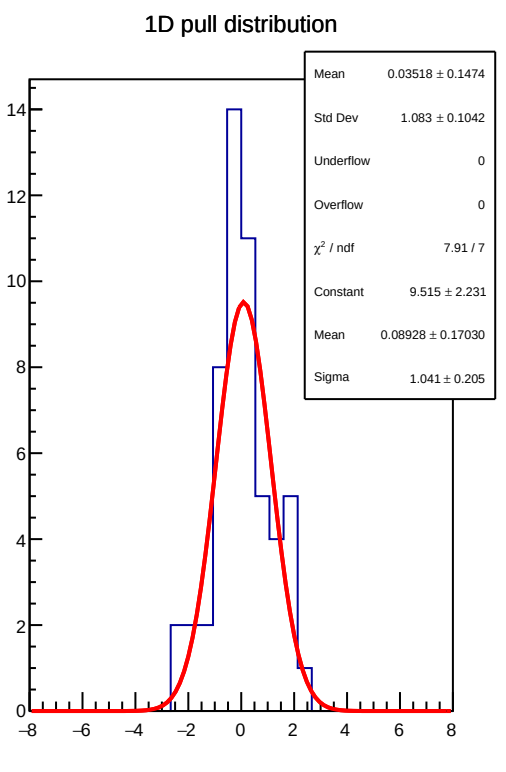

lagr_asym_us_dd RMS (ppm)
RMS (ppm)
109
108.5
108
107.5
107
106.5
106
105.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

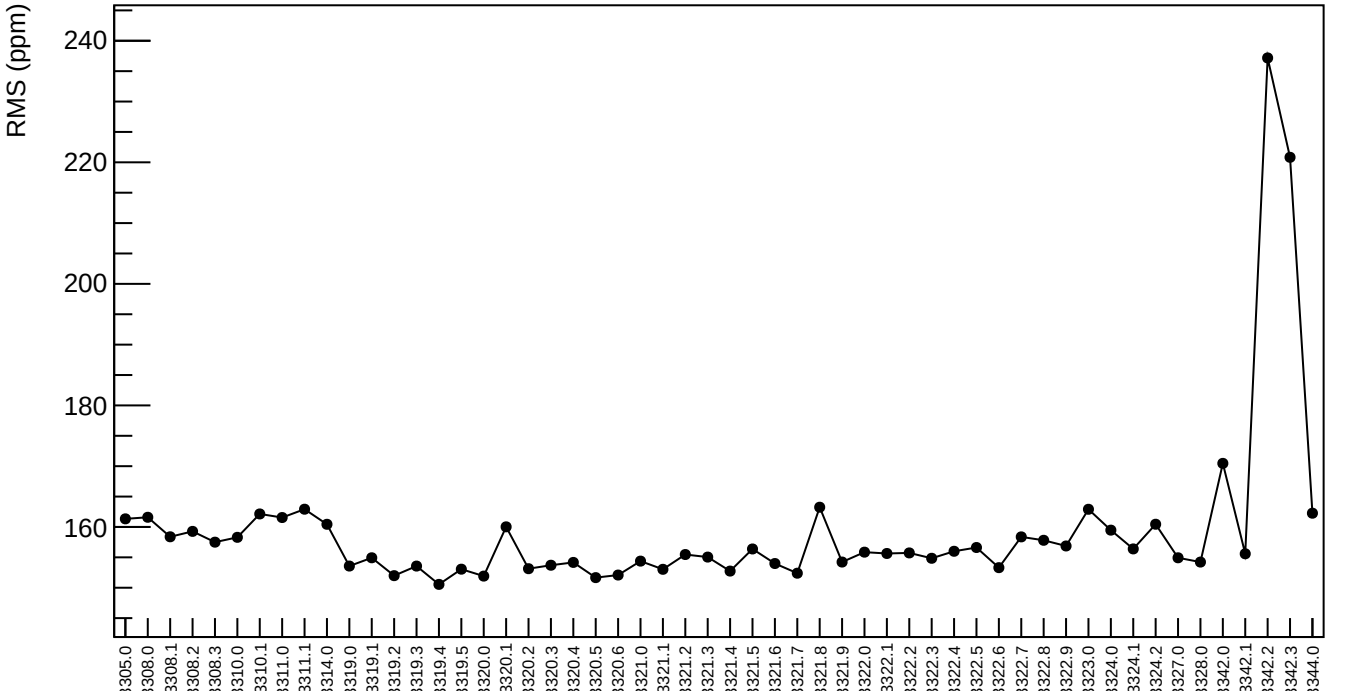

lagr_asym_usr (ppb)
χ² / ndf 50 / 53
p0 −449.1 ± 228.4
6000
4000
2000
0
-2000
-4000
-6000
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

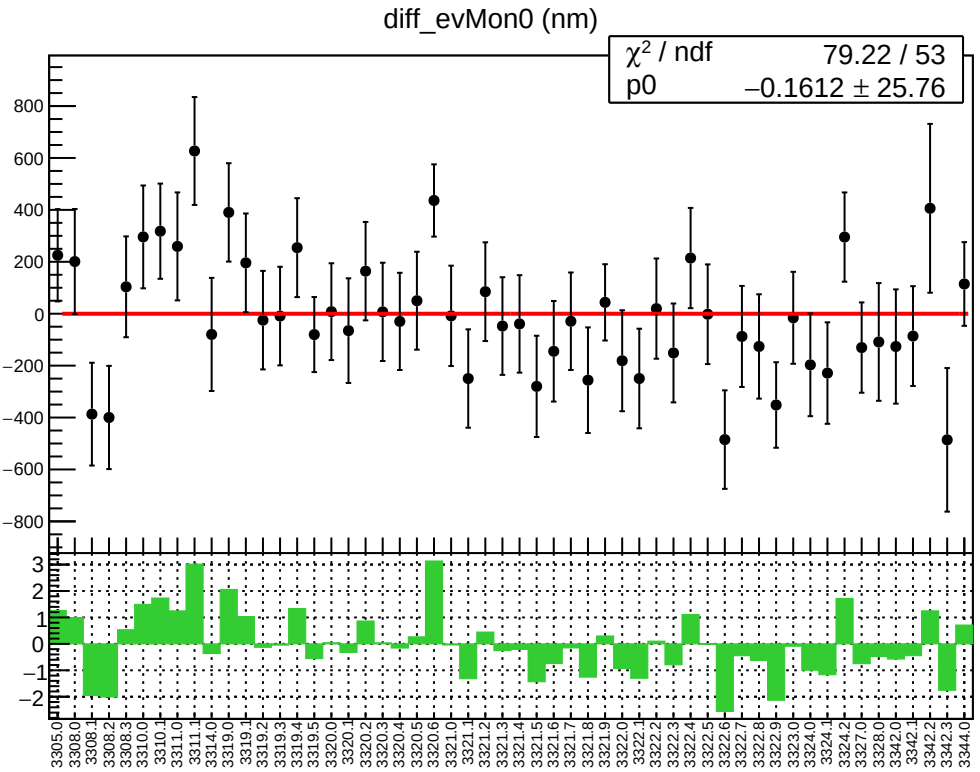

1D pull distribution
Mean 0.001285 ± 0.1309
Std Dev 0.9623 ± 0.0926
Underflow 0
Overflow 0
χ² / ndf 0.4222 / 6
Constant 11.11 ± 1.94
Mean 0.006443 ± 0.157491
Sigma 1.052 ± 0.135
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

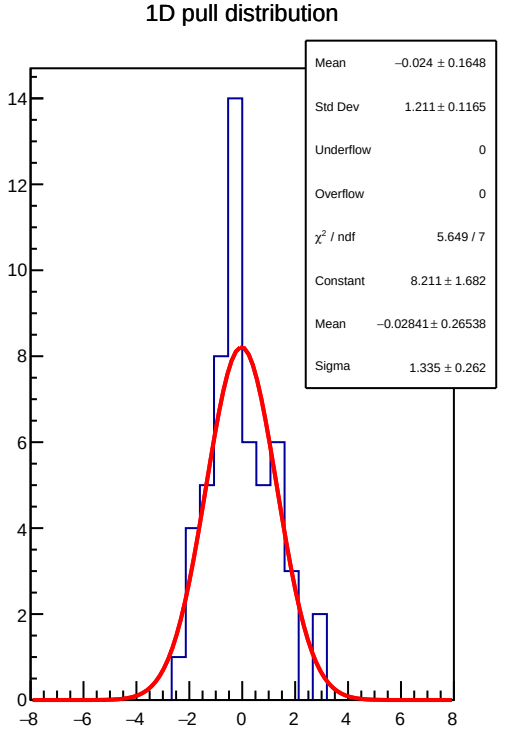

lagr_asym_usr RMS (ppm)
RMS (ppm)
210
200
190
180
170
160
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

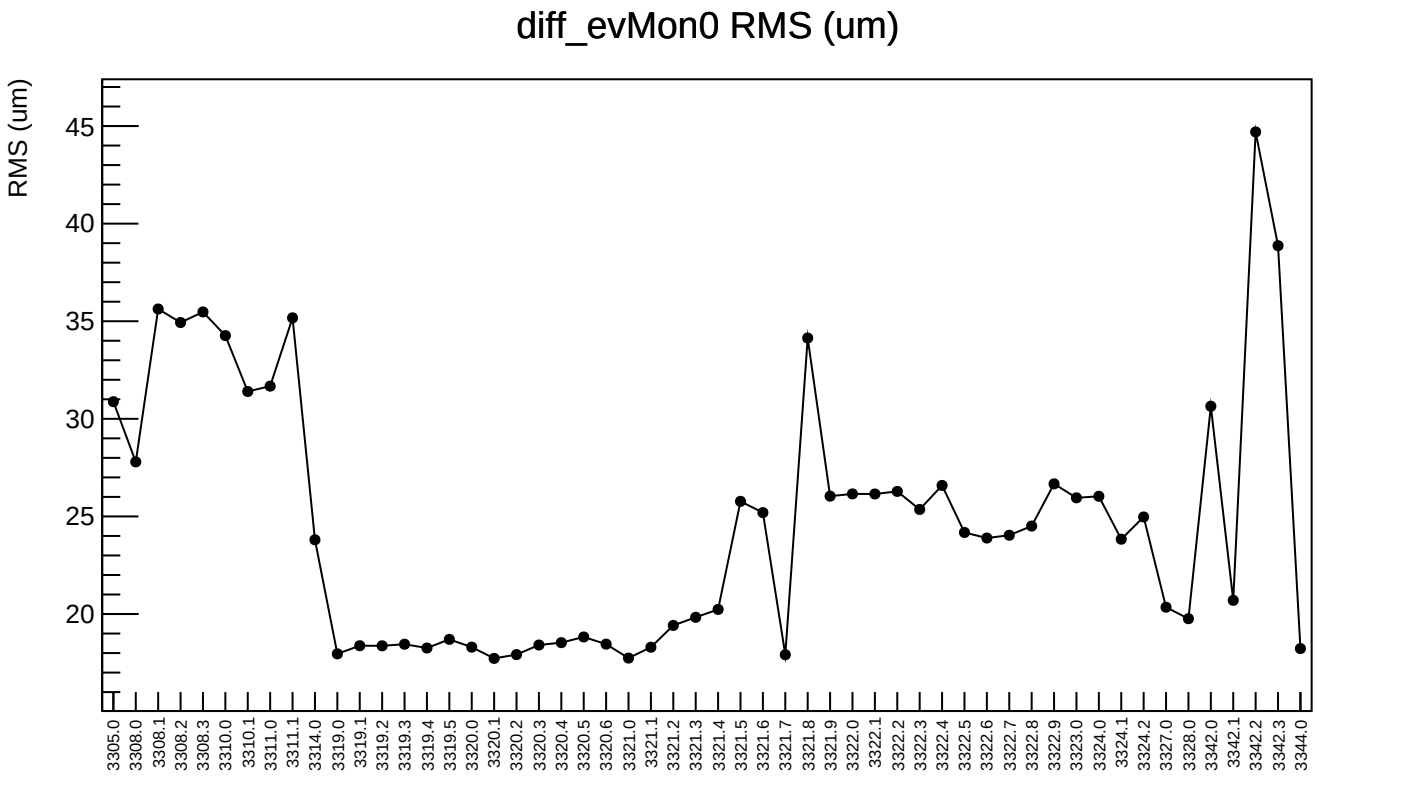

lagr_asym_usl (ppb)
χ² / ndf 63.44 / 53
p0 −250.9 ± 227.5
6000
4000
2000
0
-2000
-4000
-6000
2
1
0
−1
−2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

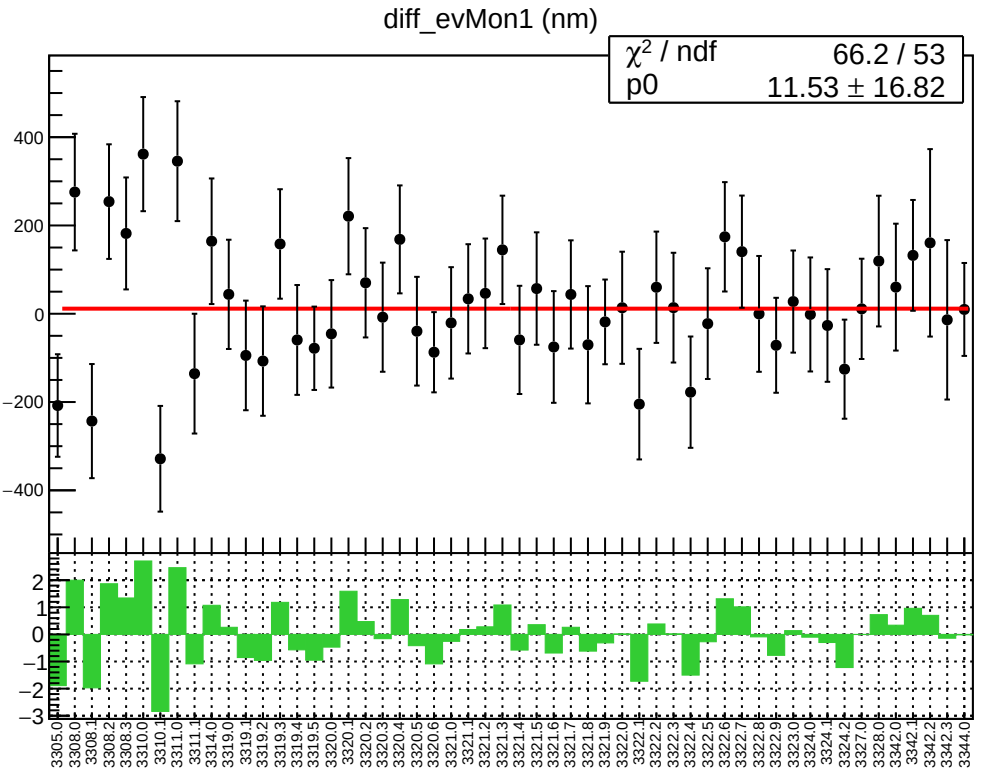

1D pull distribution
Mean 0.03518 ± 0.1474
Std Dev 1.083 ± 0.1042
Underflow 0
Overflow 0
χ² / ndf 7.91 / 7
Constant 9.515 ± 2.231
Mean 0.08928 ± 0.17030
Sigma 1.041 ± 0.205
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

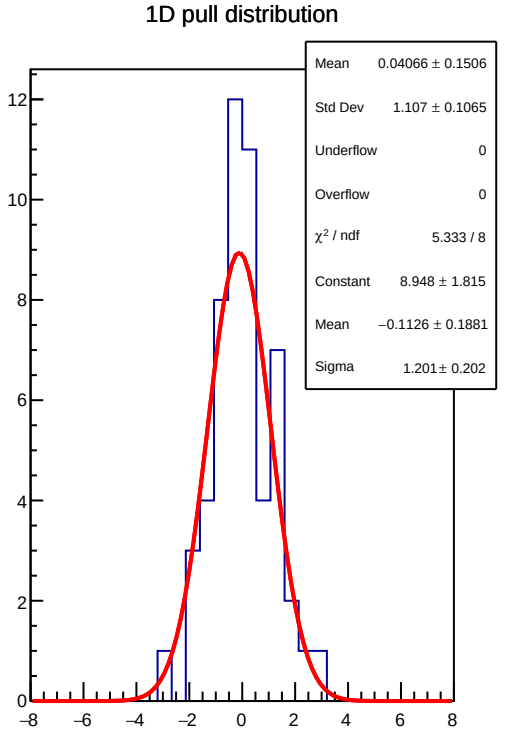

lagr_asym_usl RMS (ppm)
RMS (ppm)
240
220
200
180
160
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

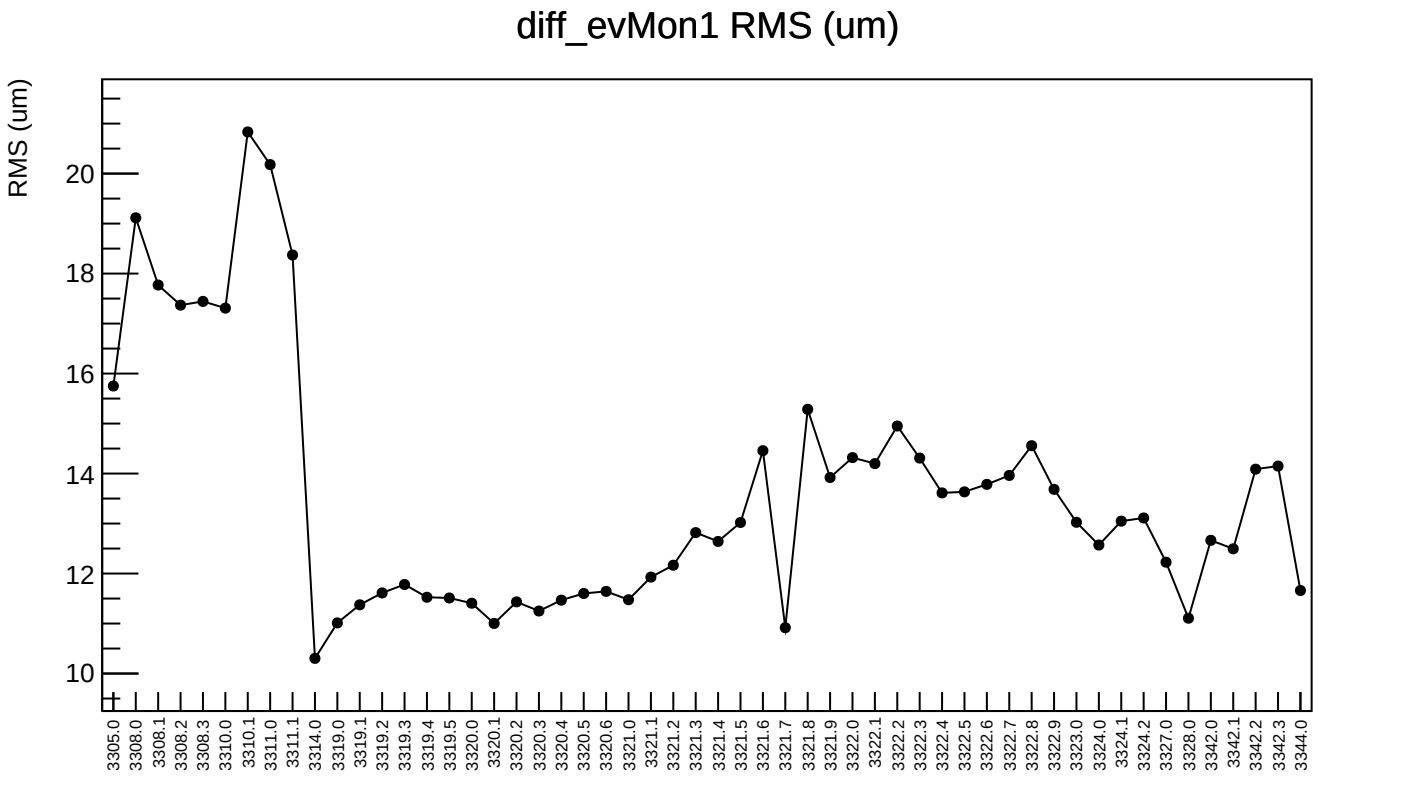

diff_evMon0 (nm)
χ² / ndf 79.22 / 53
p0 −0.1612 ± 25.76
800
600
400
200
0
−200
−400
−600
−800
3
2
1
0
−1
−2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

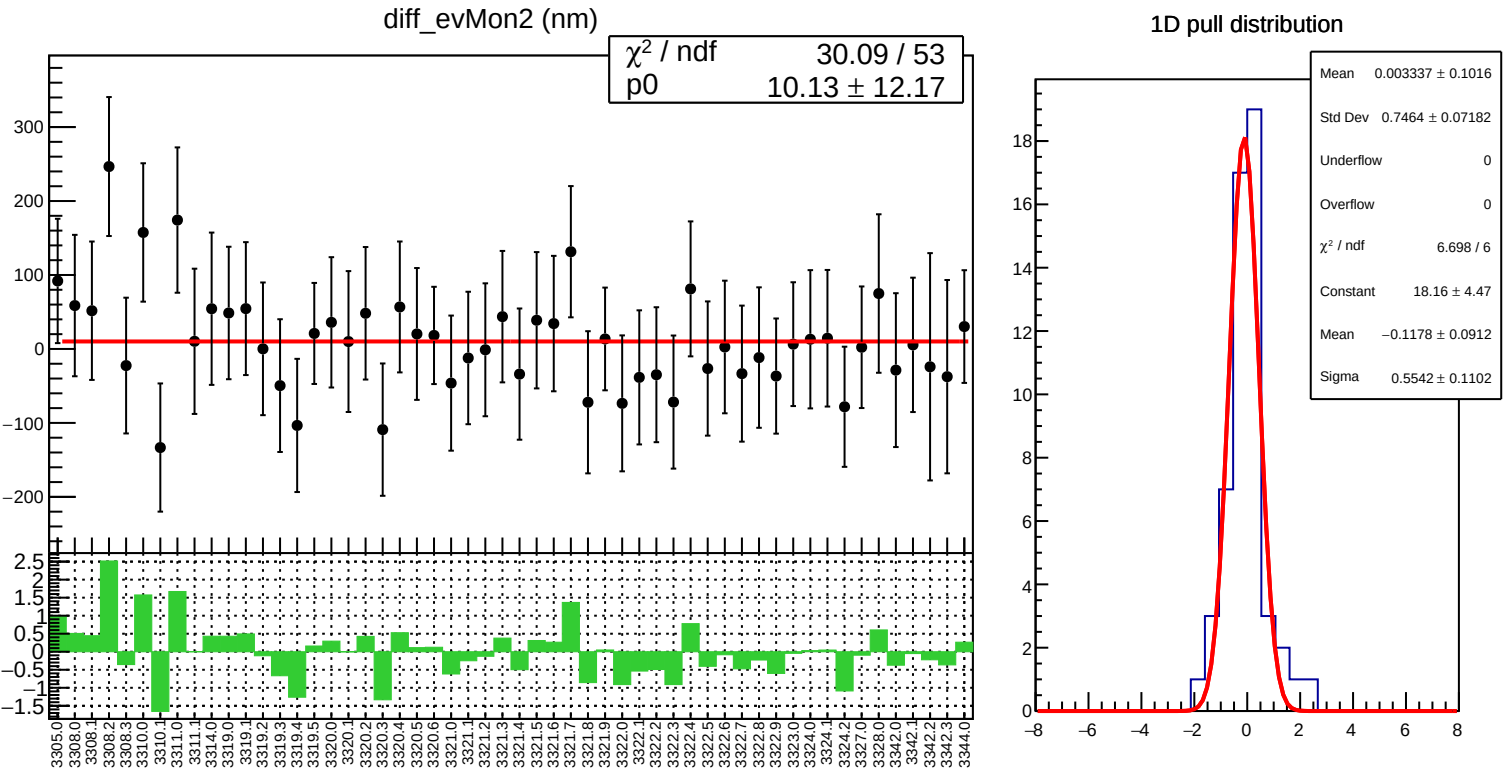

1D pull distribution
Mean −0.024 ± 0.1648
Std Dev 1.211 ± 0.1165
Underflow 0
Overflow 0
χ² / ndf 5.649 / 7
Constant 8.211 ± 1.682
Mean −0.02841 ± 0.26538
Sigma 1.335 ± 0.262
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

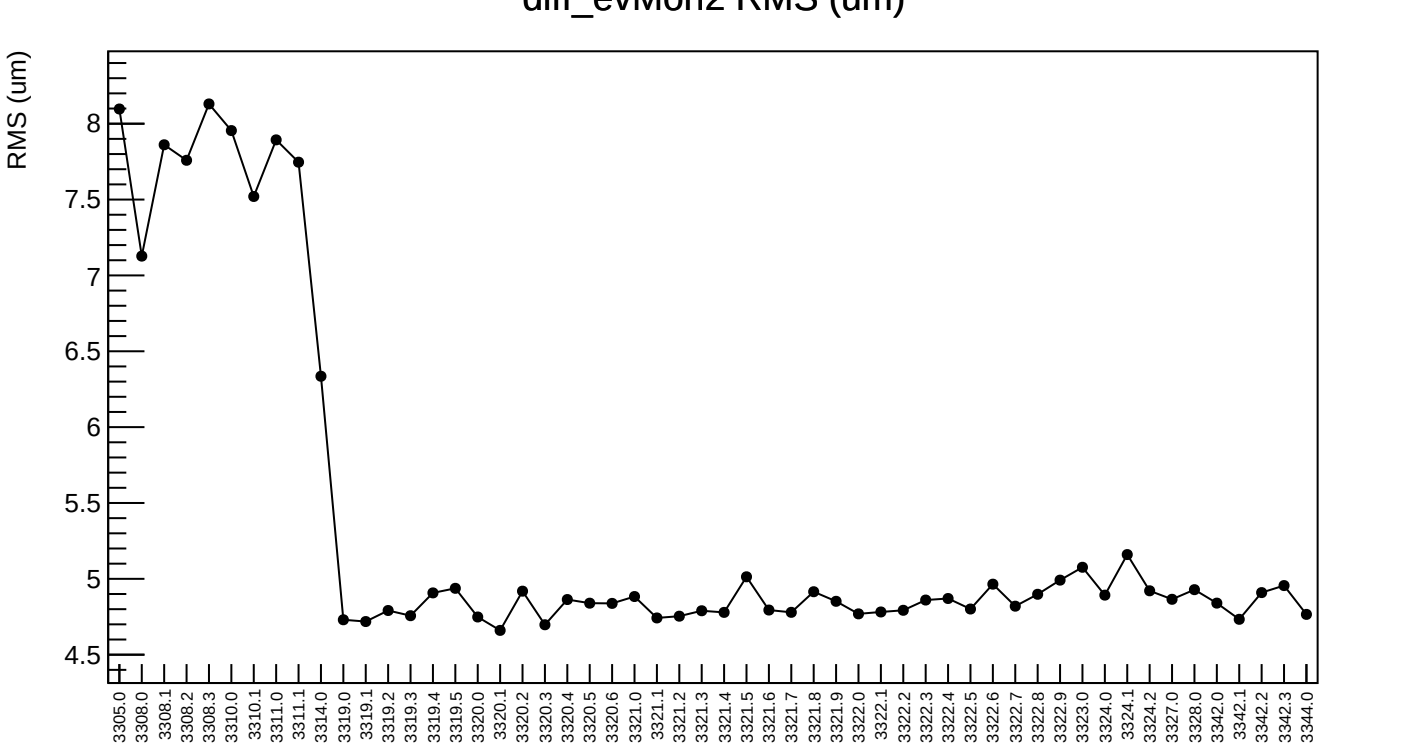

diff_evMon0 RMS (um)
RMS (um)
45
40
35
30
25
20
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

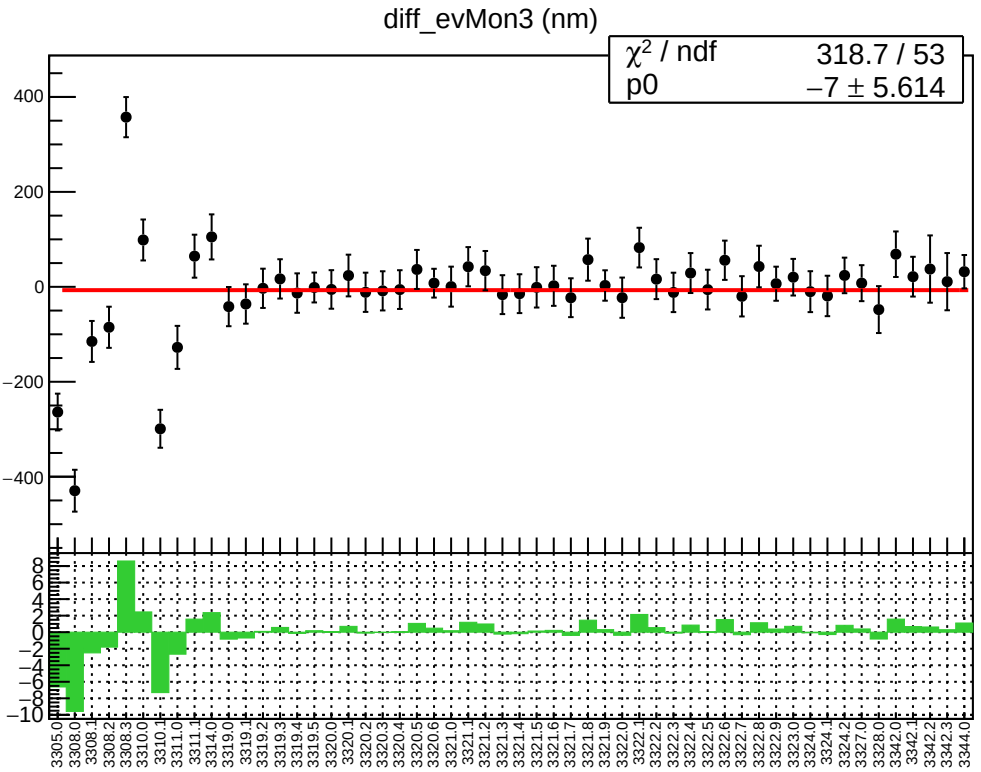

diff_evMon1 (nm)
χ² / ndf 66.2 / 53
p0 11.53 ± 16.82
400
200
0
−200
−400
2
1
0
−1
−2
−3
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

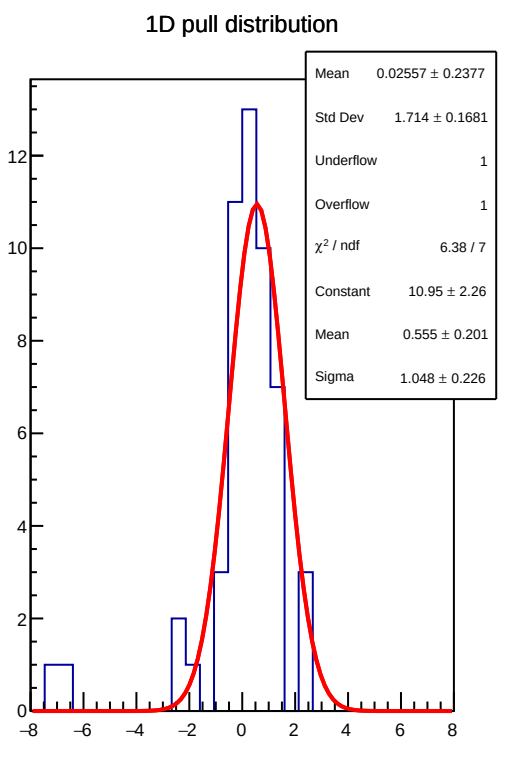

1D pull distribution
Mean 0.04066 ± 0.1506
Std Dev 1.107 ± 0.1065
Underflow 0
Overflow 0
χ² / ndf 5.333 / 8
Constant 8.948 ± 1.815
Mean −0.1126 ± 0.1881
Sigma 1.201± 0.202
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

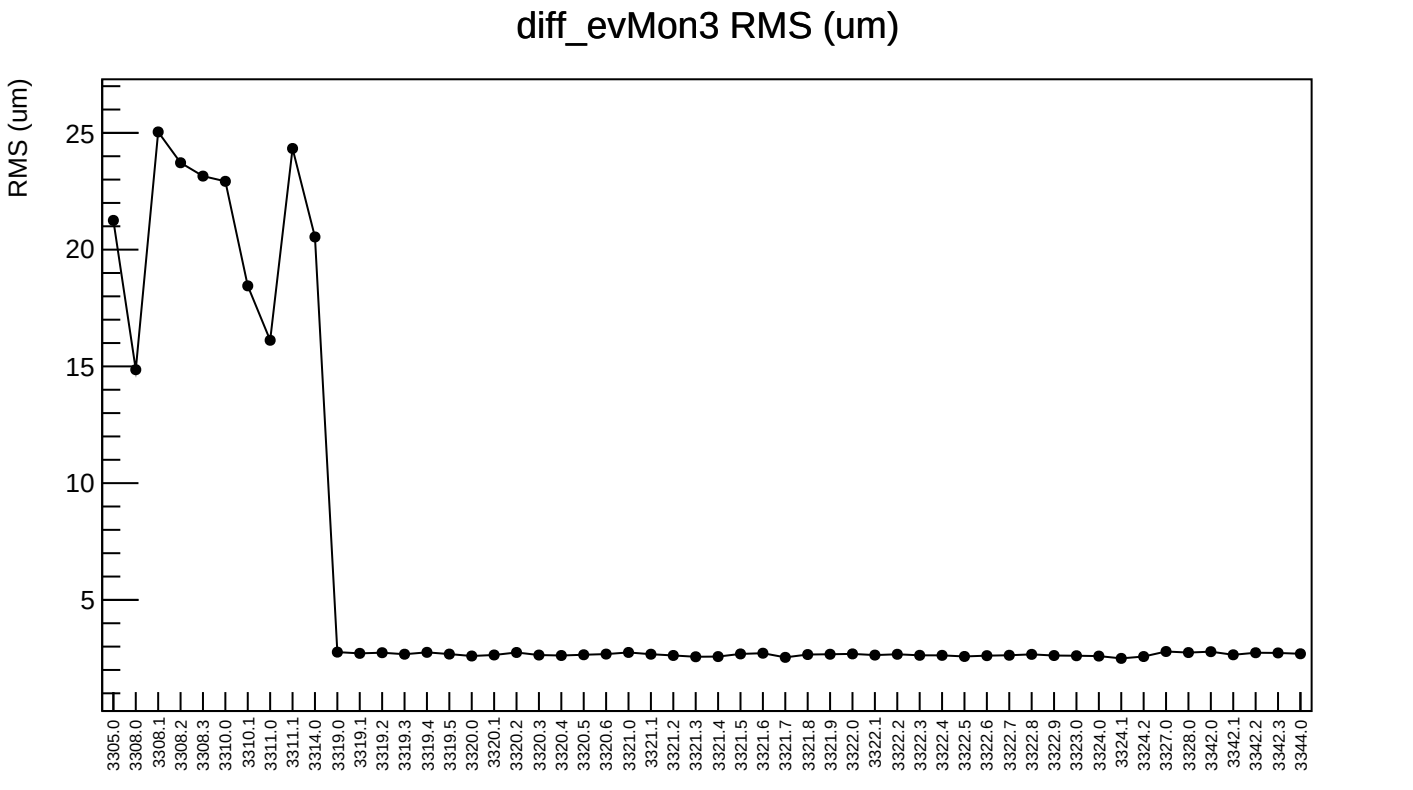

diff_evMon1 RMS (um)
RMS (um)
20
18
16
14
12
10
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

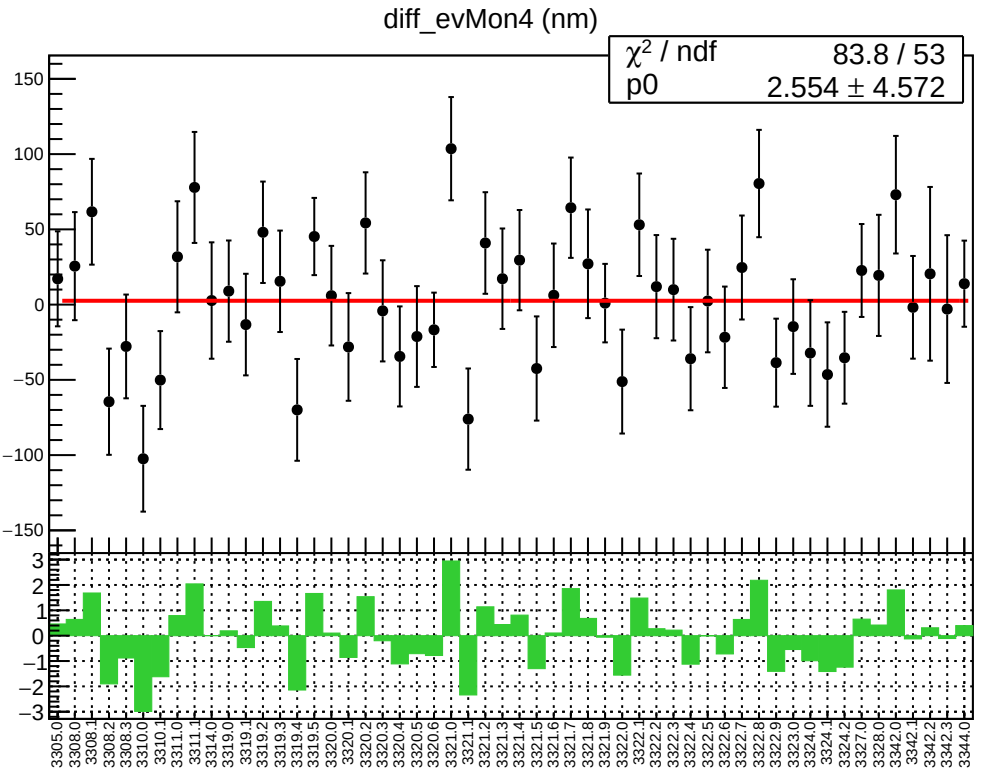

diff_evMon2 (nm)
χ² / ndf 30.09 / 53
p0 10.13 ± 12.17
1D pull distribution
Mean 0.003337 ± 0.1016
Std Dev 0.7464 ± 0.07182
Underflow 0
Overflow 0
χ² / ndf 6.698 / 6
Constant 18.16 ± 4.47
Mean −0.1178 ± 0.0912
Sigma 0.5542 ± 0.1102

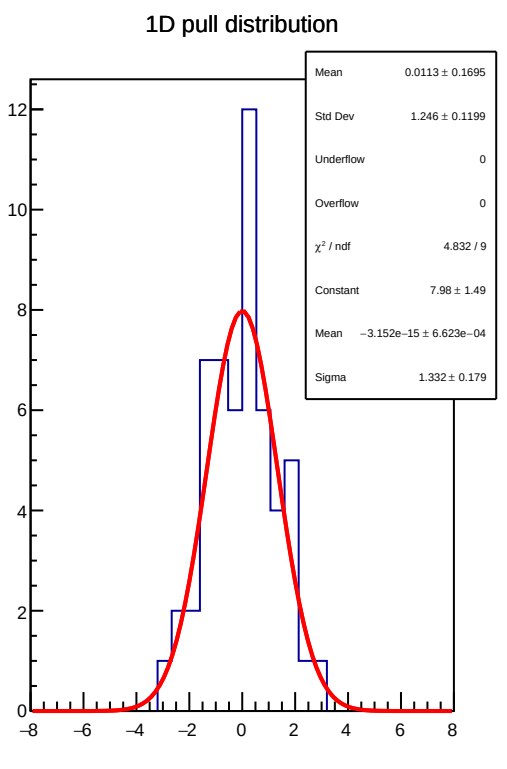

diff_evMon2 RMS (um)
RMS (um)
8
7.5
7
6.5
6
5.5
5
4.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

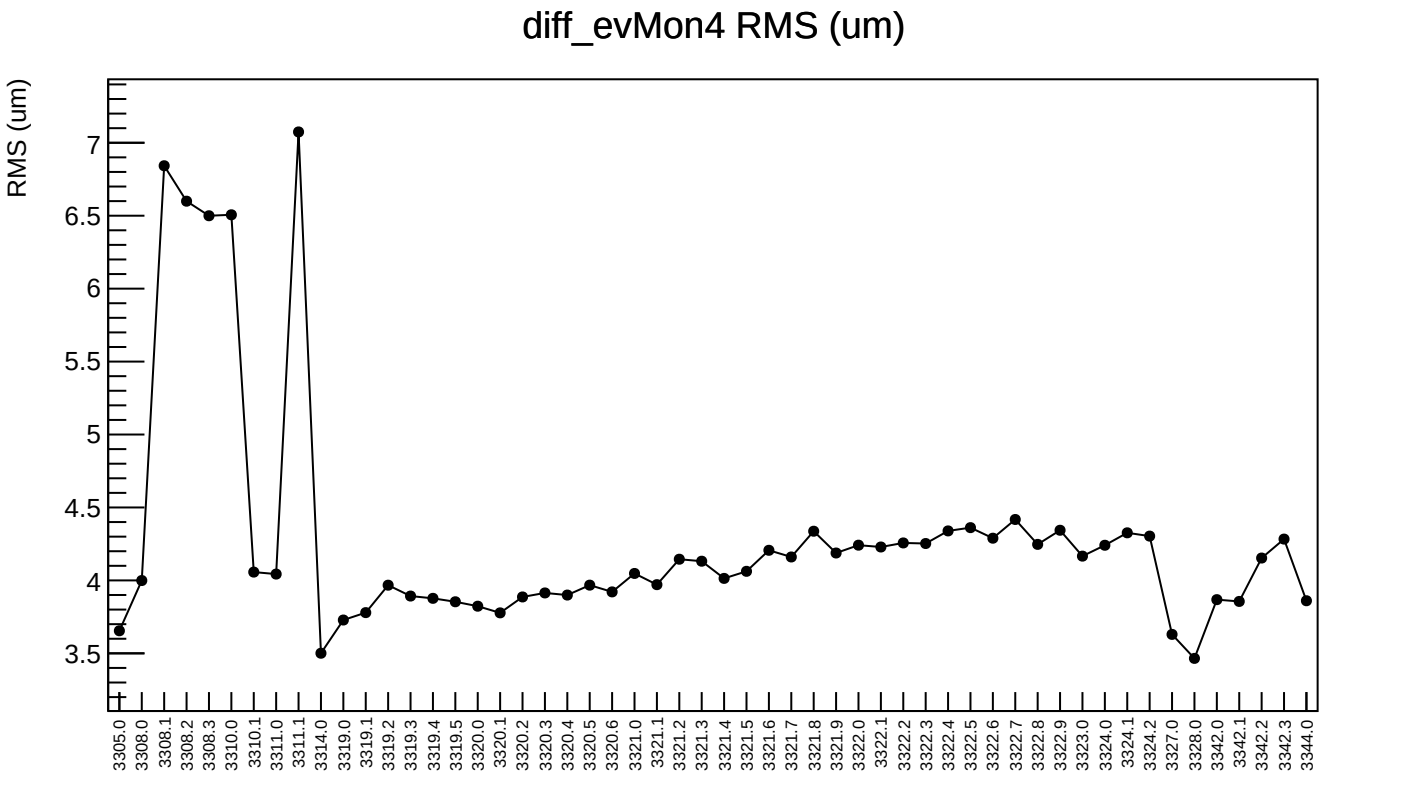

diff_evMon3 (nm)
χ² / ndf 318.7 / 53
p0 −7 ± 5.614
400
200
0
−200
−400
8
6
4
2
0
−2
−4
−6
−8
−10
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

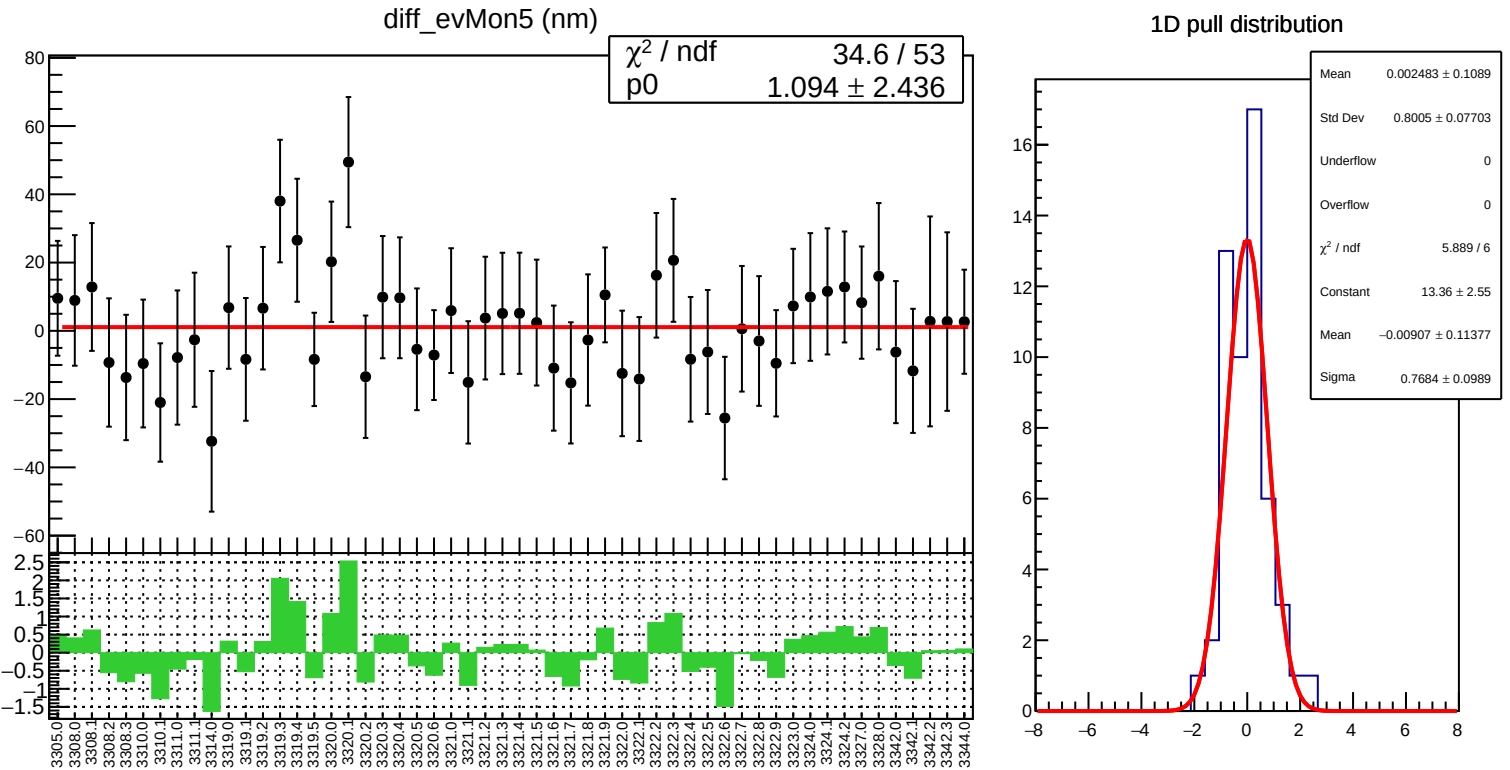

1D pull distribution
Mean 0.02557 ± 0.2377
Std Dev 1.714 ± 0.1681
Underflow 1
Overflow 1
χ² / ndf 6.38 / 7
Constant 10.95 ± 2.26
Mean 0.555 ± 0.201
Sigma 1.048 ± 0.226
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

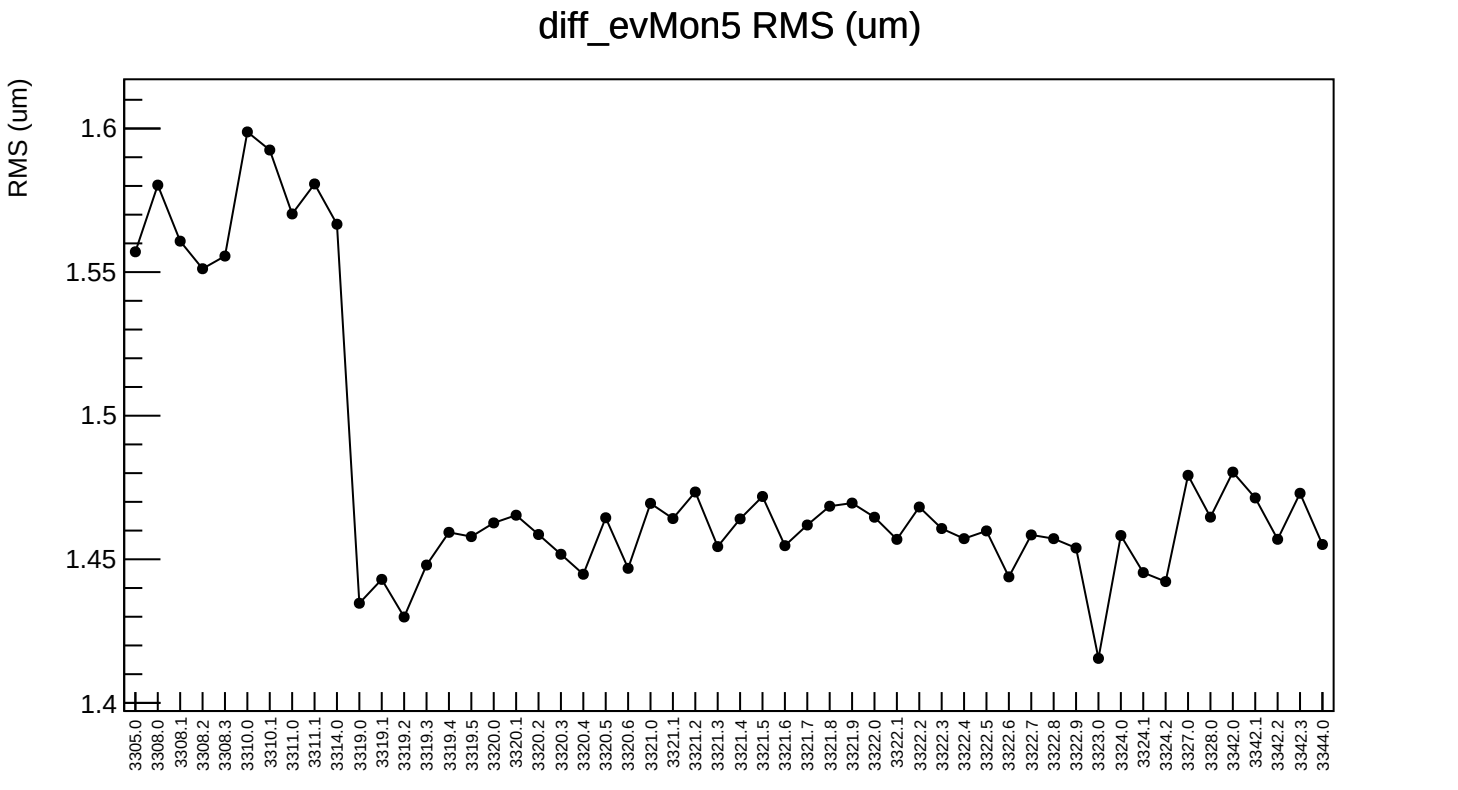

diff_evMon3 RMS (um)
RMS (um)
25
20
15
10
5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

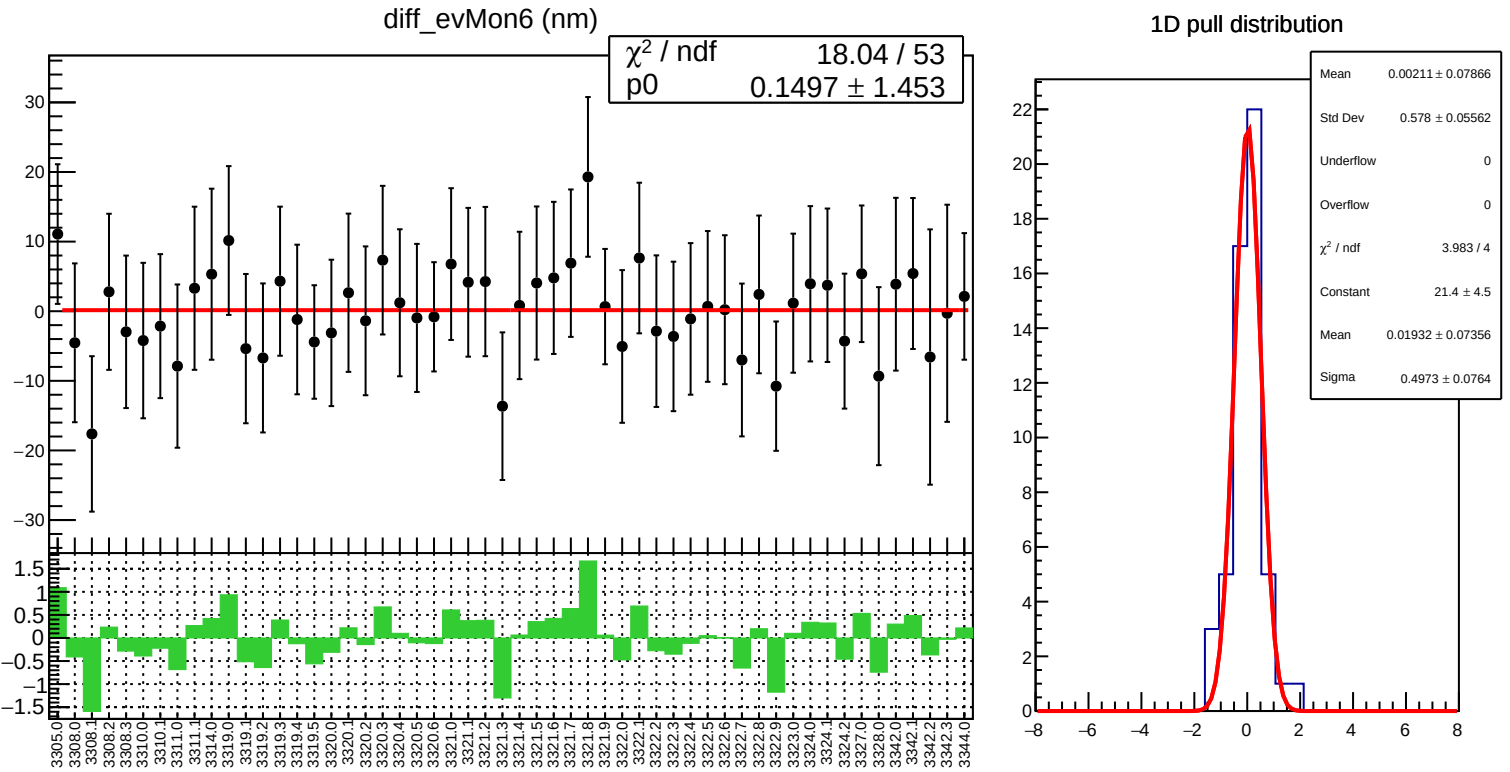

diff_evMon4 (nm)
χ² / ndf 83.8 / 53
p0 2.554 ± 4.572
150
100
50
0
−50
−100
−150
3
2
1
0
−1
−2
−3
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

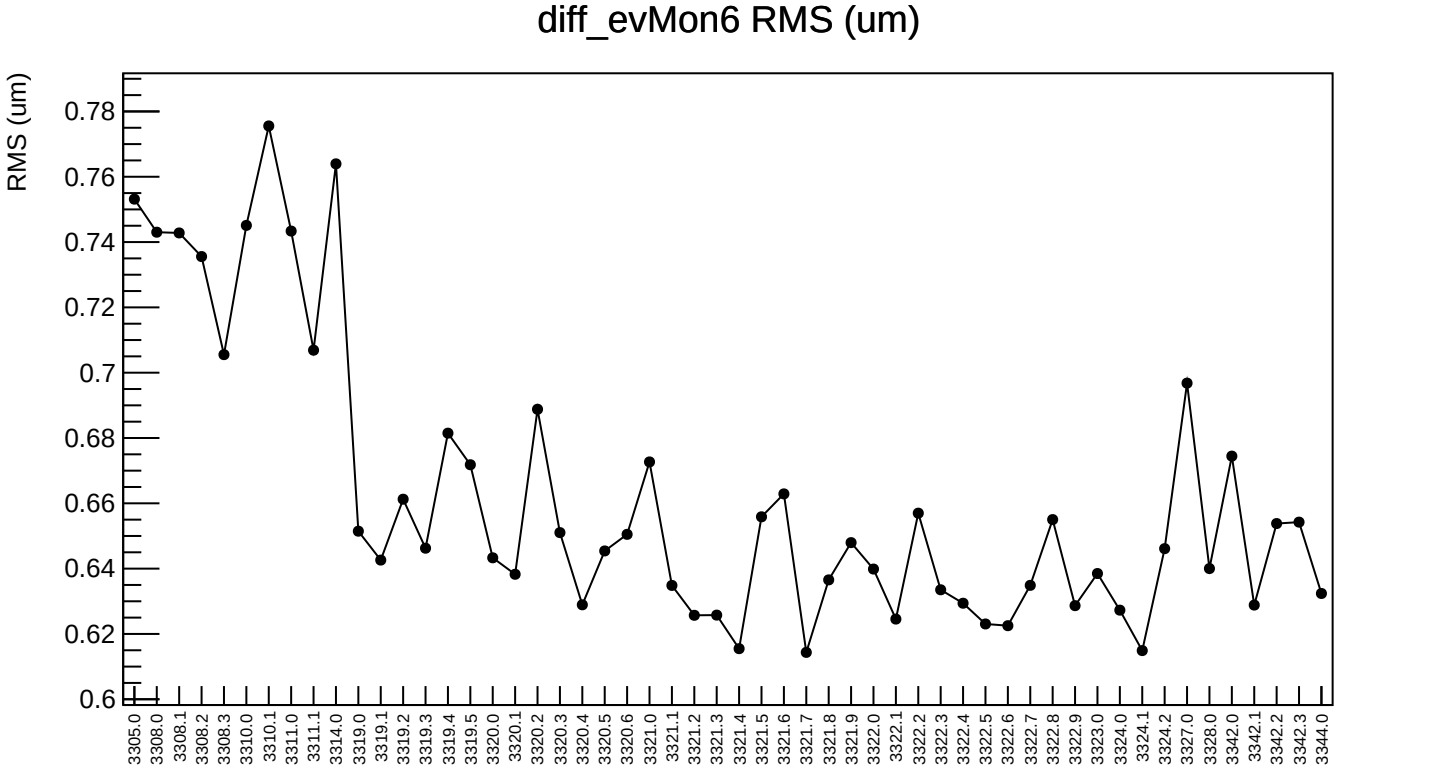

1D pull distribution
Mean 0.0113 ± 0.1695
Std Dev 1.246 ± 0.1199
Underflow 0
Overflow 0
χ² / ndf 4.832 / 9
Constant 7.98 ± 1.49
Mean −3.152e−15 ± 6.623e−04
Sigma 1.332 ± 0.179
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

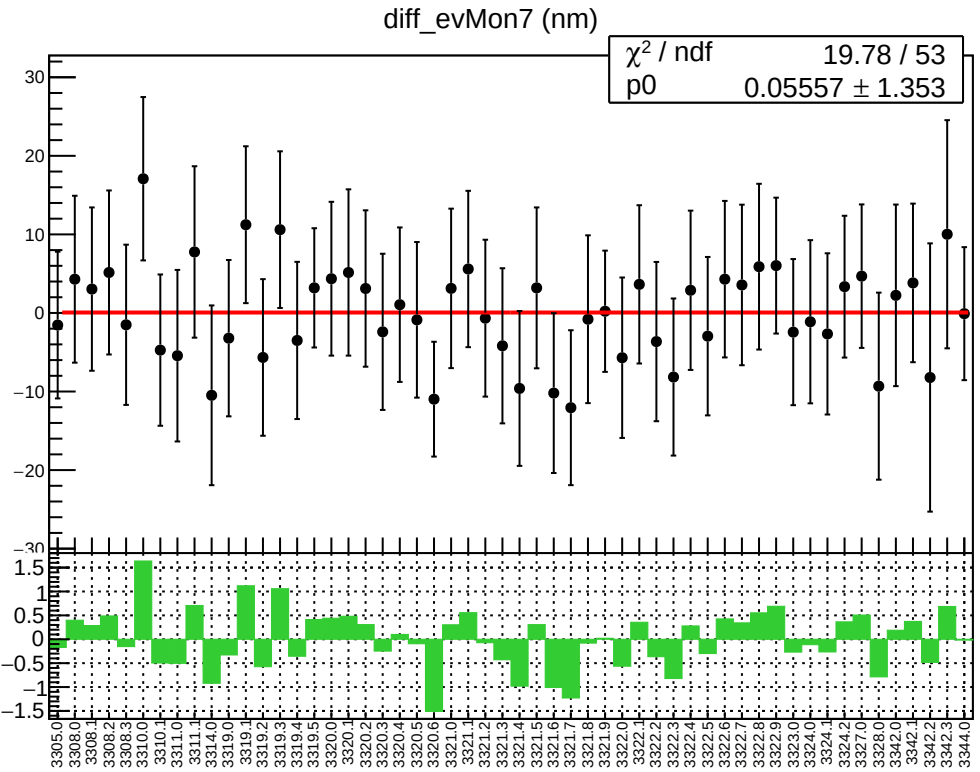

diff_evMon4 RMS (um)
RMS (um)
7
6.5
6
5.5
5
4.5
4
3.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

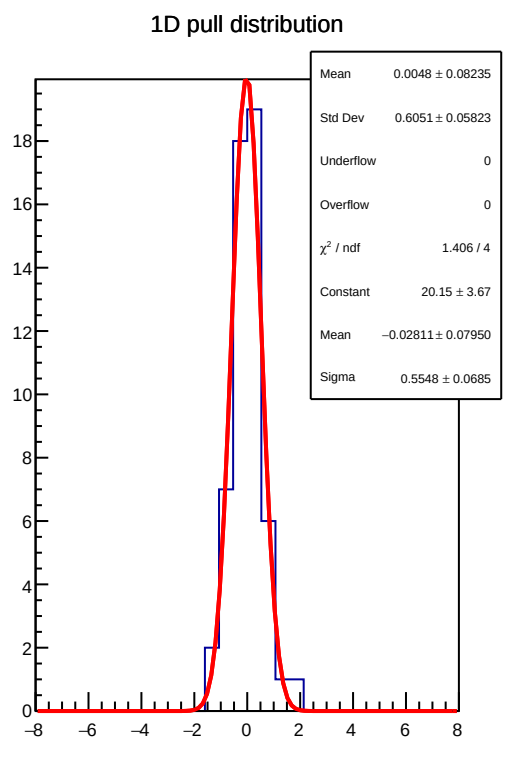

diff_evMon5 (nm)
χ² / ndf 34.6 / 53
p0 1.094 ± 2.436
1D pull distribution
Mean 0.002483 ± 0.1089
Std Dev 0.8005 ± 0.07703
Underflow 0
Overflow 0
χ² / ndf 5.889 / 6
Constant 13.36 ± 2.55
Mean −0.00907 ± 0.11377
Sigma 0.7684 ± 0.0989

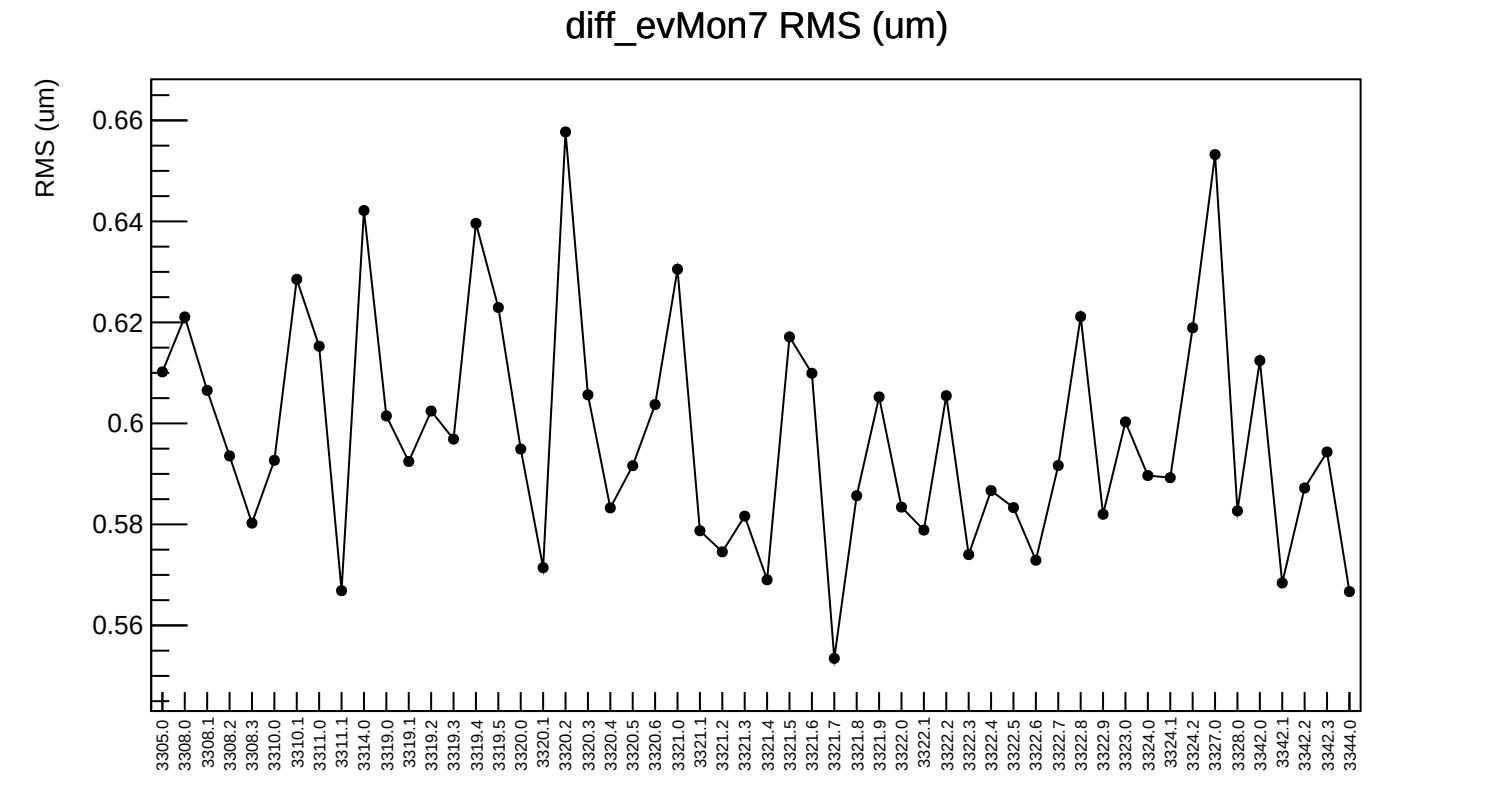

diff_evMon5 RMS (um)
RMS (um)
1.6
1.55
1.5
1.45
1.4
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

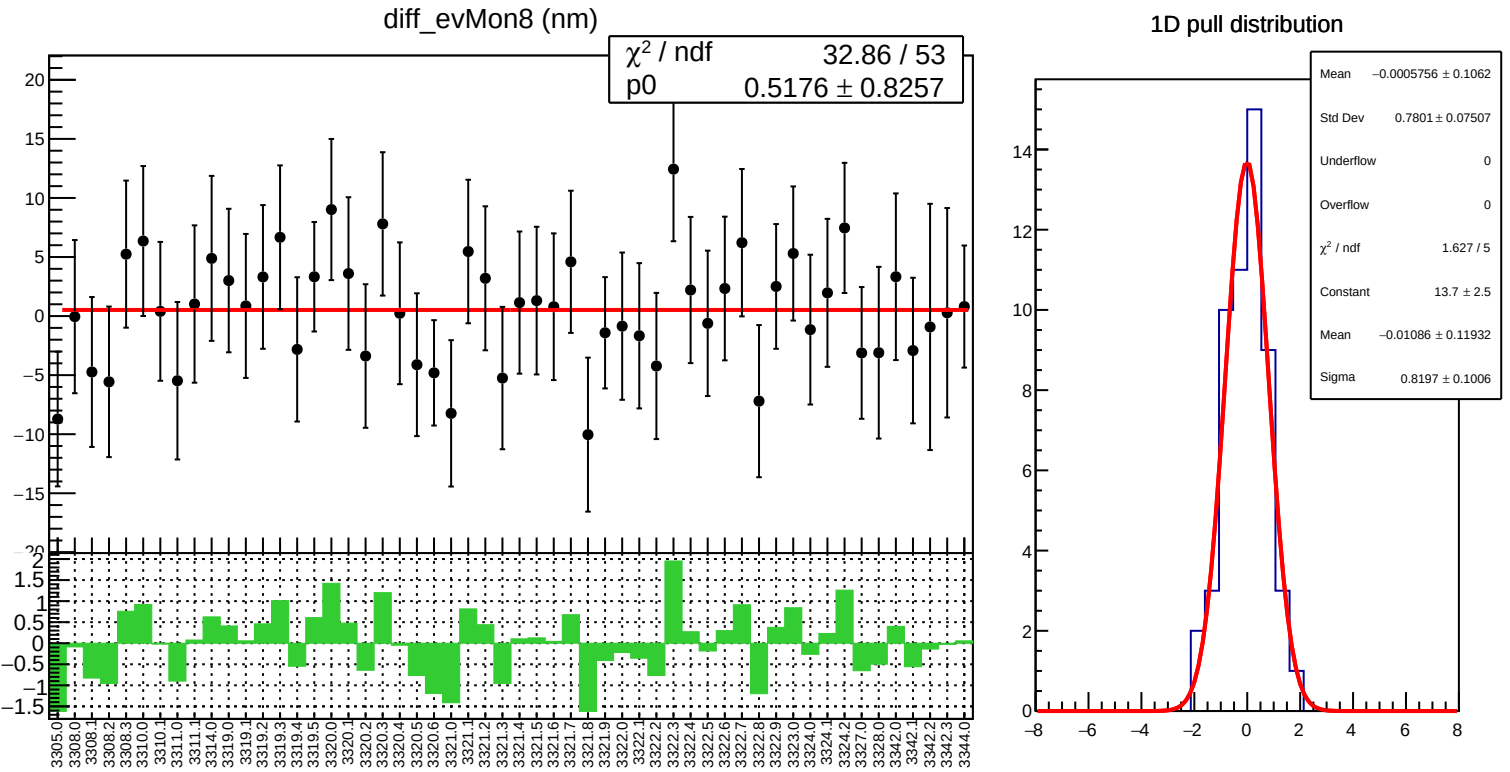

diff_evMon6 (nm)
χ² / ndf 18.04 / 53
p0 0.1497 ± 1.453
1D pull distribution
Mean 0.00211 ± 0.07866
Std Dev 0.578 ± 0.05562
Underflow 0
Overflow 0
χ² / ndf 3.983 / 4
Constant 21.4 ± 4.5
Mean 0.01932 ± 0.07356
Sigma 0.4973 ± 0.0764

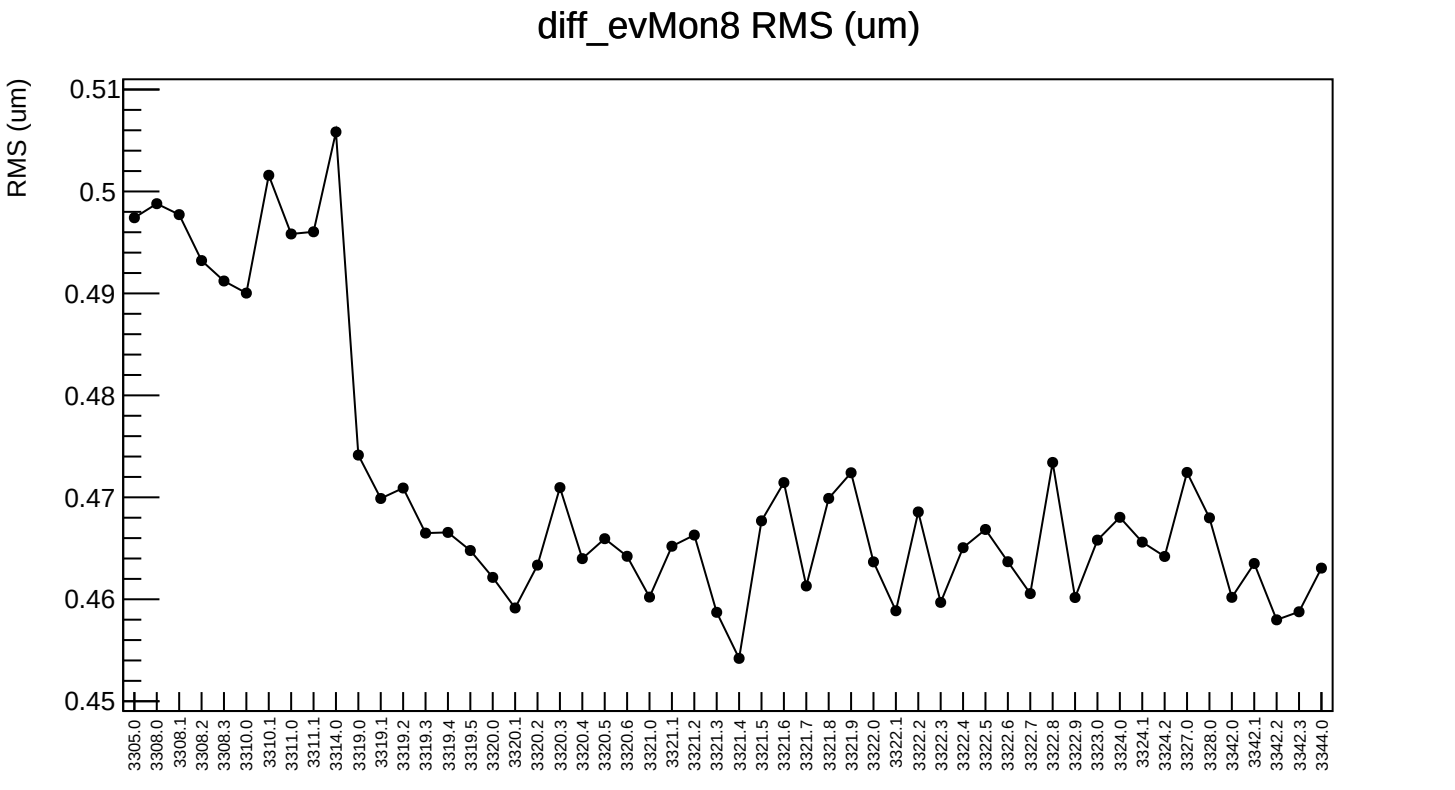

diff_evMon6 RMS (um)
RMS (um)
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

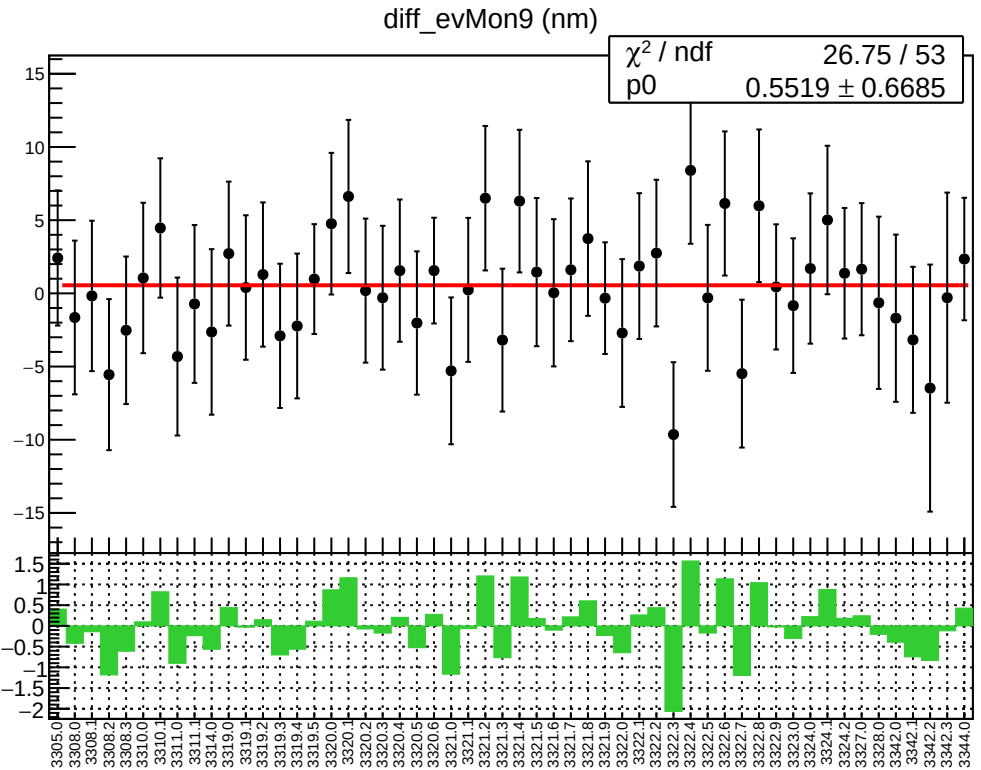

diff_evMon7 (nm)
χ² / ndf 19.78 / 53
p0 0.05557 ± 1.353

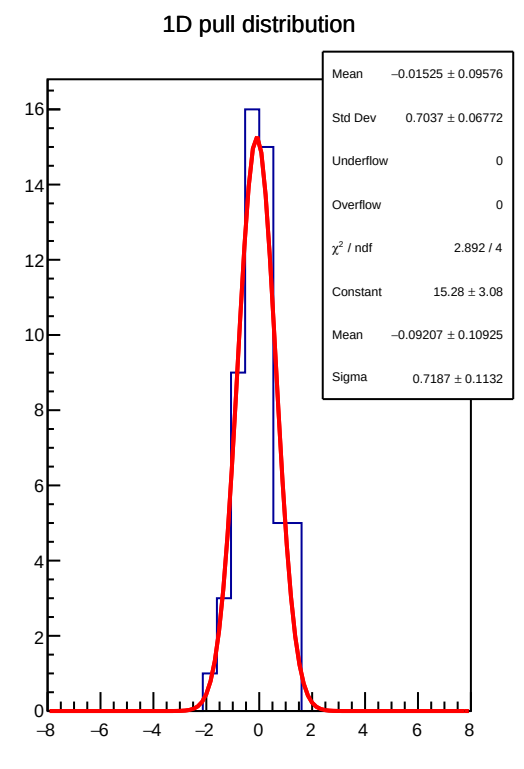

1D pull distribution
Mean 0.0048 ± 0.08235
Std Dev 0.6051 ± 0.05823
Underflow 0
Overflow 0
χ² / ndf 1.406 / 4
Constant 20.15 ± 3.67
Mean −0.02811 ± 0.07950
Sigma 0.5548 ± 0.0685

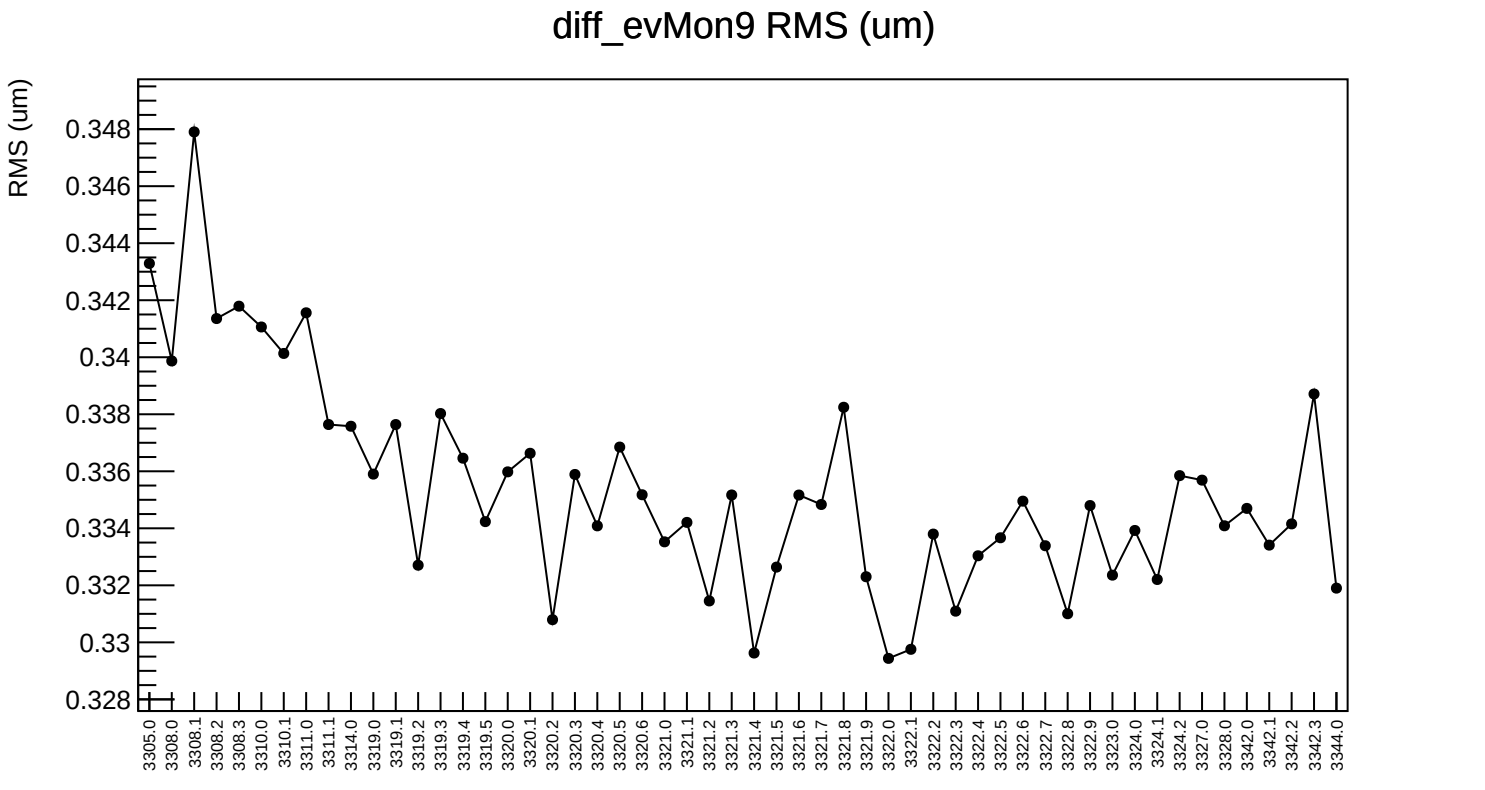

diff_evMon7 RMS (um)
RMS (um)
0.66
0.64
0.62
0.6
0.58
0.56
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

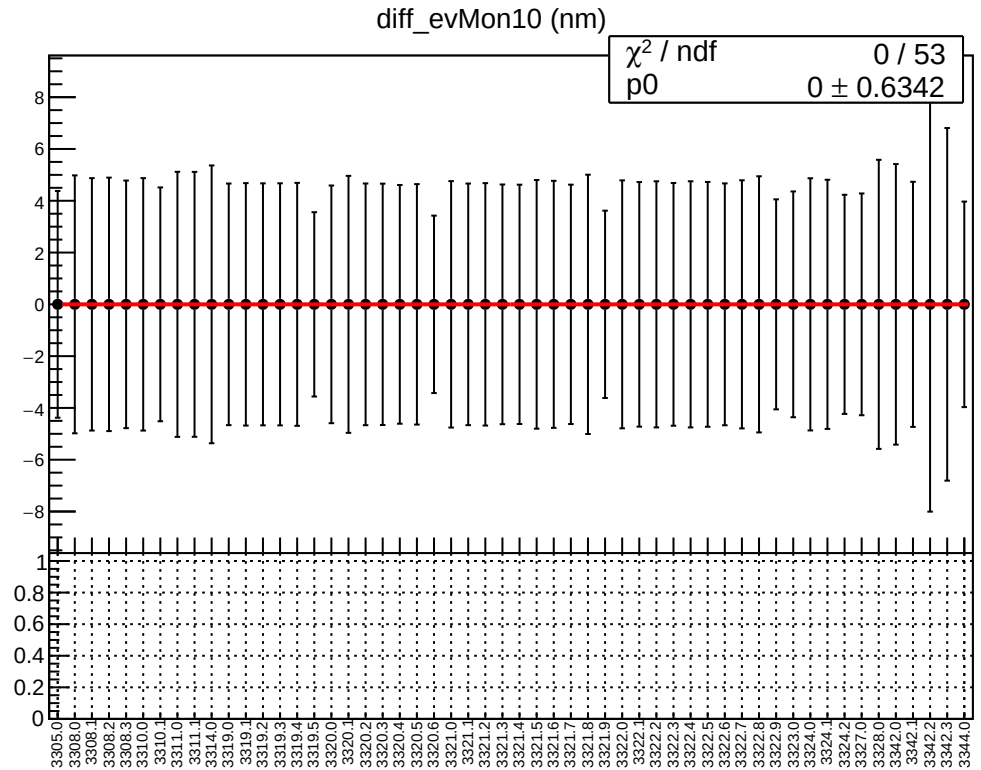

diff_evMon8 (nm)
χ² / ndf 32.86 / 53
p0 0.5176 ± 0.8257
1D pull distribution
Mean −0.0005756 ± 0.1062
Std Dev 0.7801 ± 0.07507
Underflow 0
Overflow 0
χ² / ndf 1.627 / 5
Constant 13.7 ± 2.5
Mean −0.01086 ± 0.11932
Sigma 0.8197 ± 0.1006

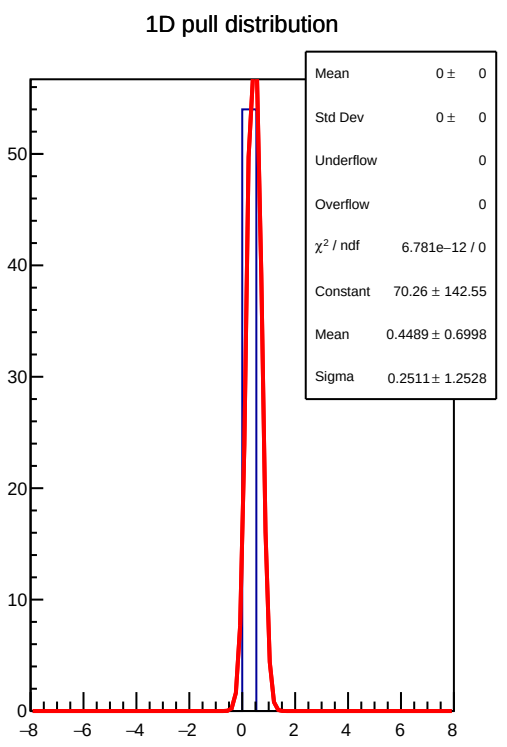

diff_evMon8 RMS (um)
RMS (um)
0.51
0.5
0.49
0.48
0.47
0.46
0.45
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

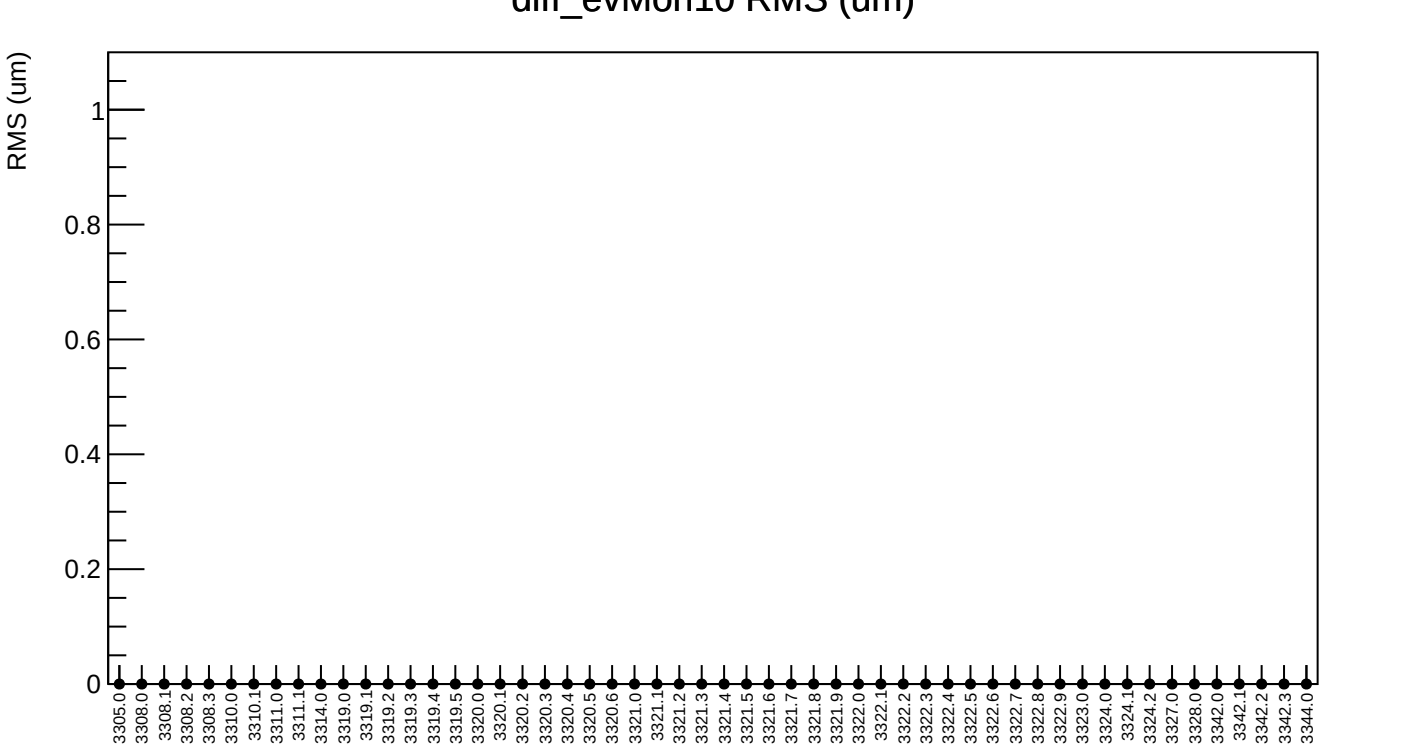

diff_evMon9 (nm)
χ² / ndf 26.75 / 53
p0 0.5519 ± 0.6685

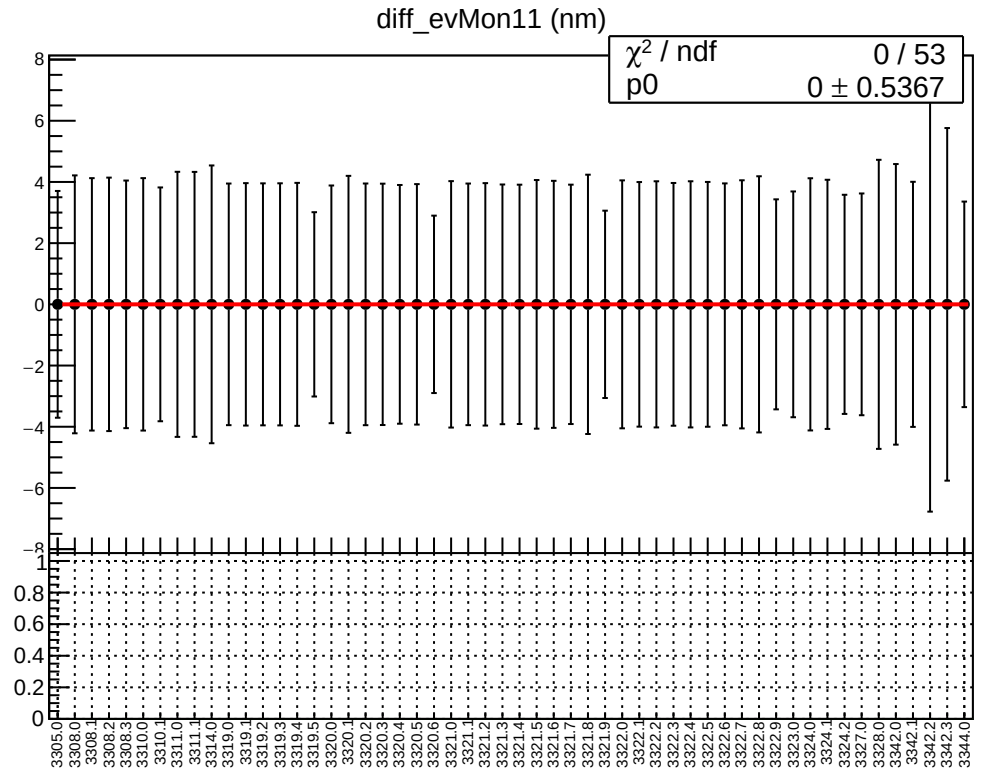

1D pull distribution
Mean −0.01525 ± 0.09576
Std Dev 0.7037 ± 0.06772
Underflow 0
Overflow 0
χ² / ndf 2.892 / 4
Constant 15.28 ± 3.08
Mean −0.09207 ± 0.10925
Sigma 0.7187 ± 0.1132

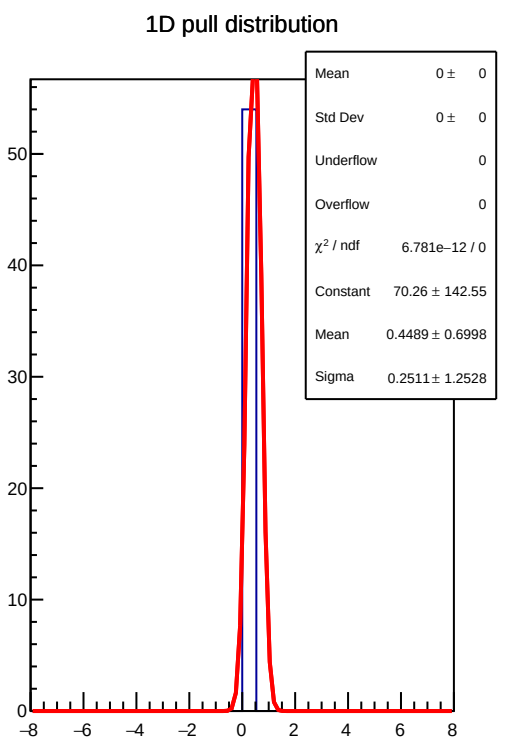

diff_evMon9 RMS (um)
RMS (um)
0.348
0.346
0.344
0.342
0.34
0.338
0.336
0.334
0.332
0.33
0.328
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

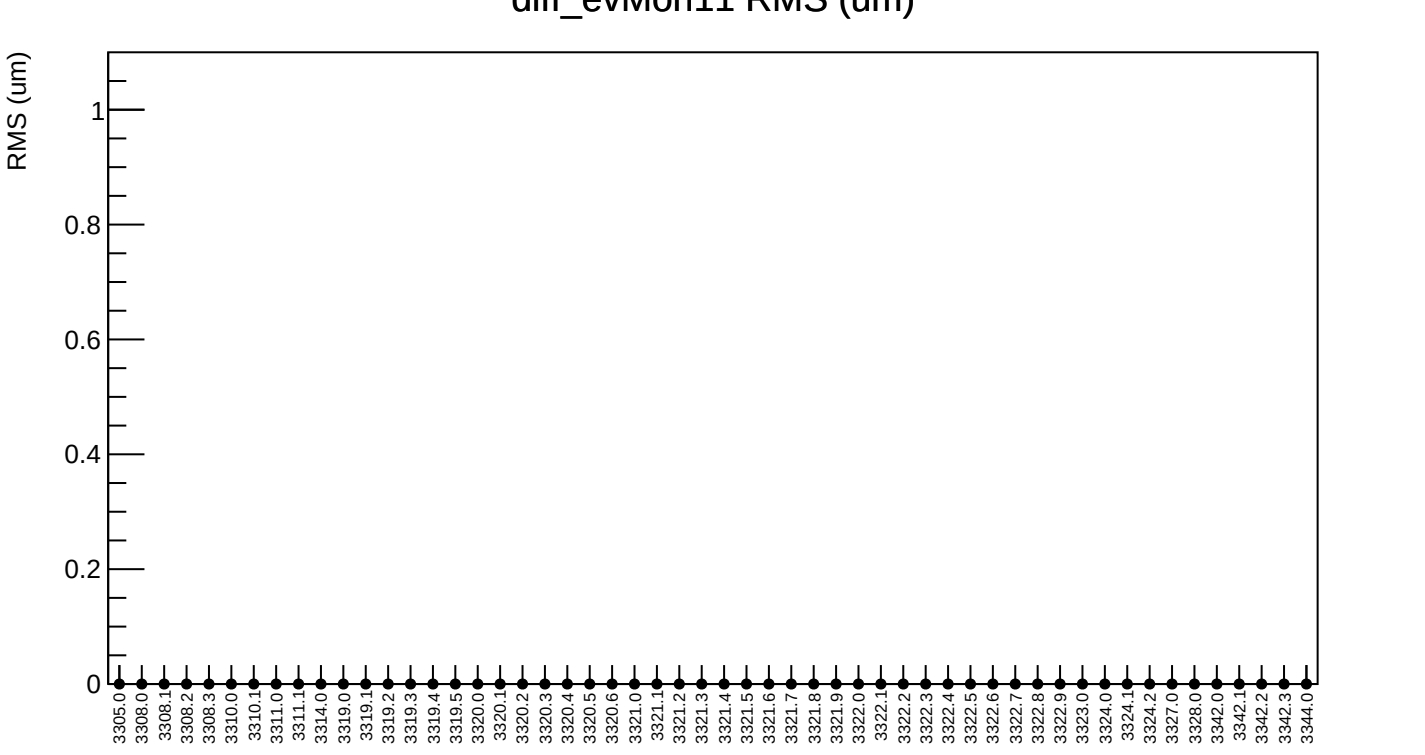

diff_evMon10 (nm)
χ² / ndf 0 / 53
p0 0 ± 0.6342

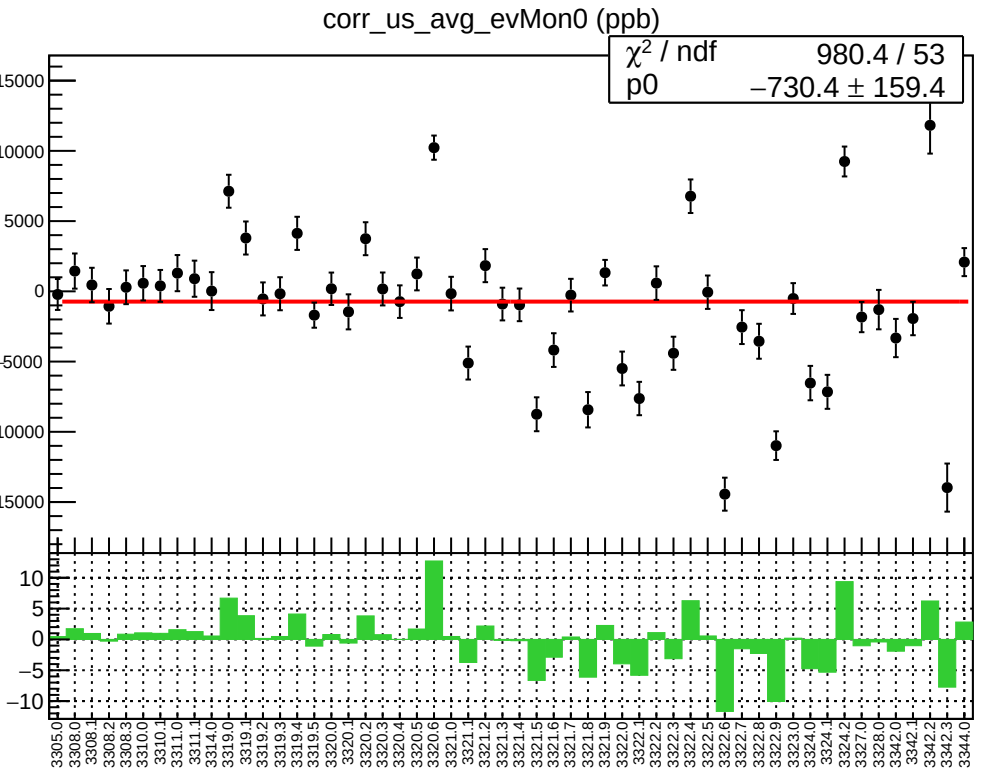

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528

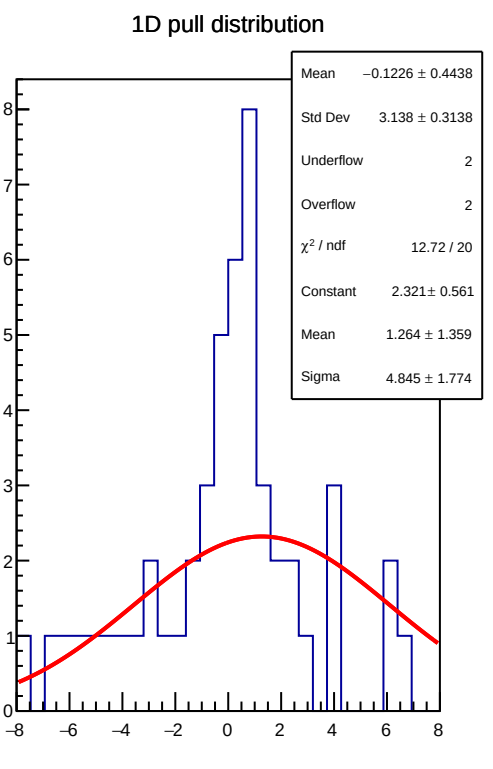

diff_evMon10 RMS (um)
RMS (um)
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

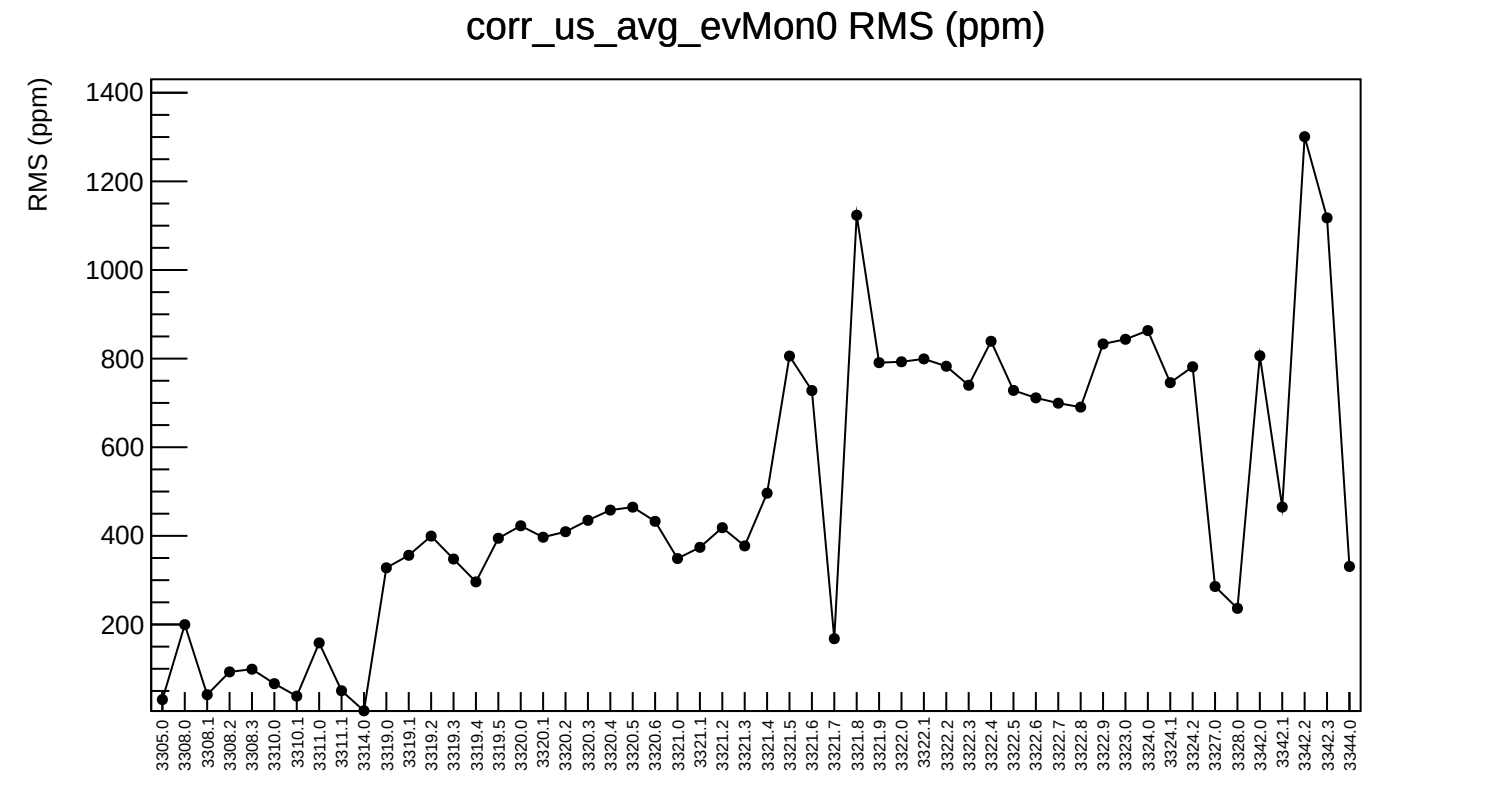

diff_evMon11 (nm)
χ² / ndf 0 / 53
p0 0 ± 0.5367

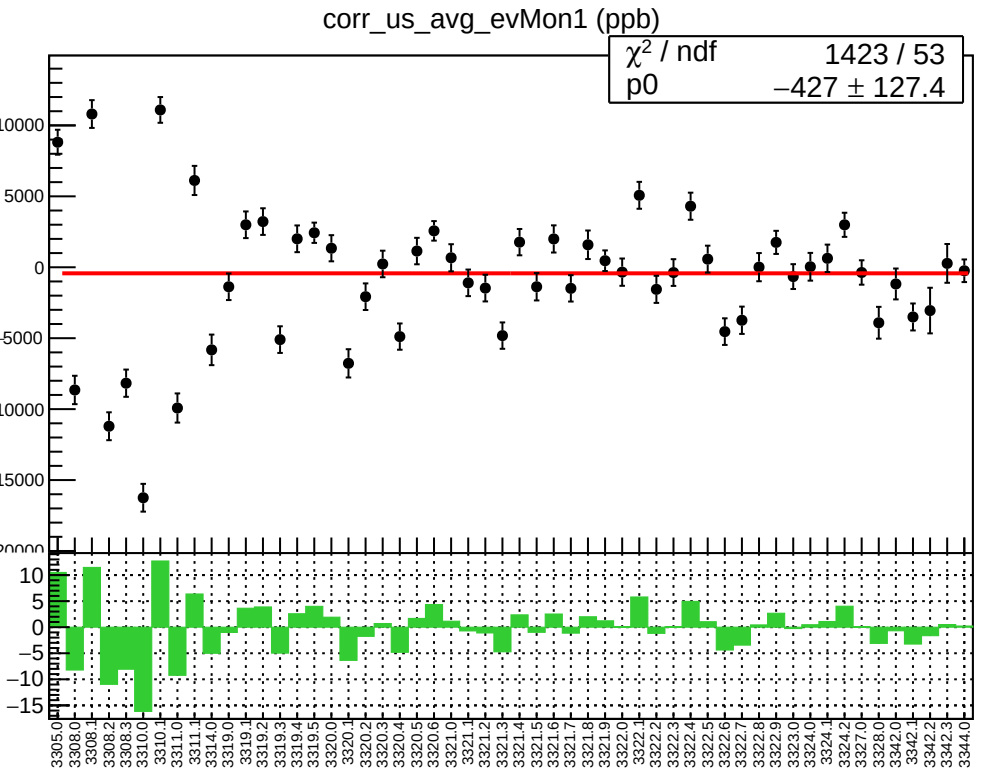

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528

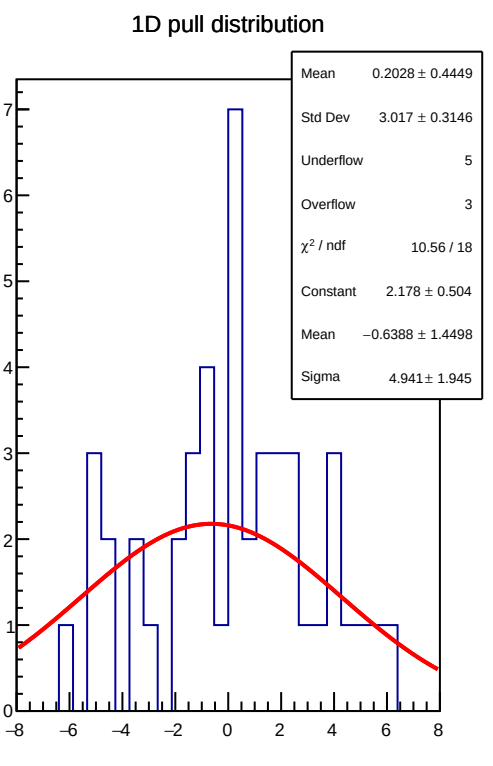

diff_evMon11 RMS (um)
RMS (um)
0
0.2
0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

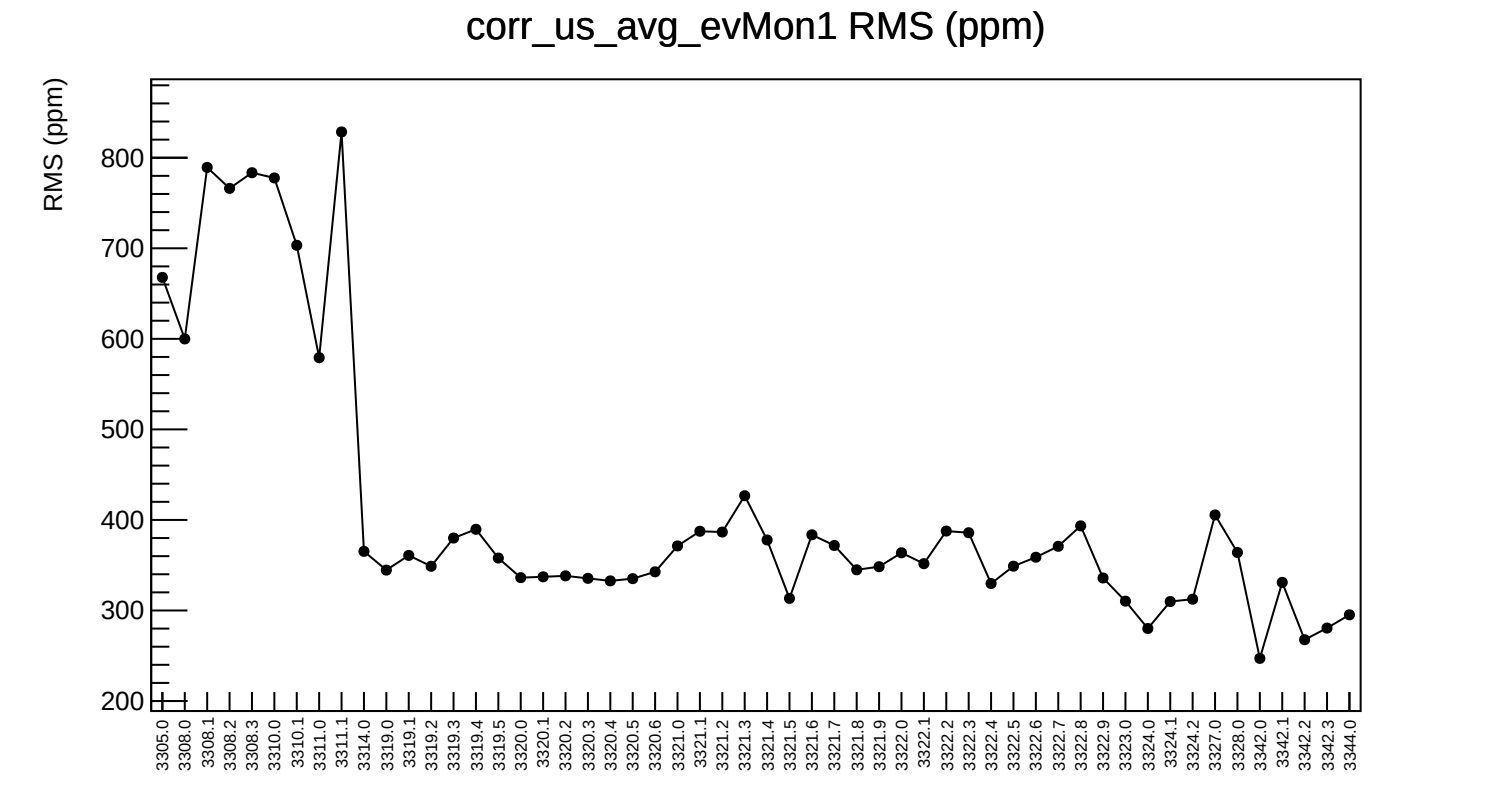

corr_us_avg_evMon0 (ppb)
χ² / ndf 980.4 / 53
p0 −730.4 ± 159.4
15000
10000
5000
0
−5000
−10000
−15000
10
5
0
−5
−10
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

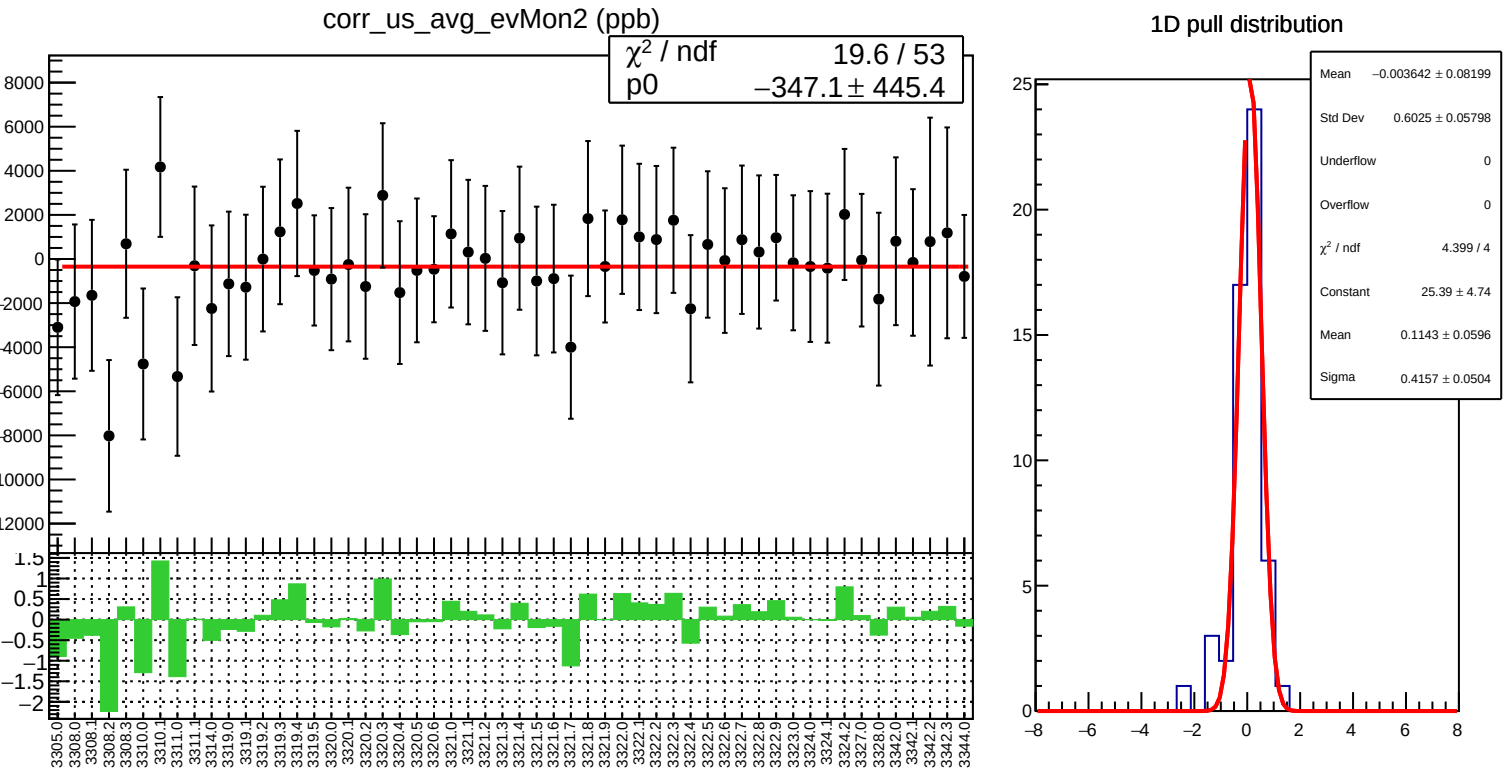

1D pull distribution
Mean −0.1226 ± 0.4438
Std Dev 3.138 ± 0.3138
Underflow 2
Overflow 2
χ² / ndf 12.72 / 20
Constant 2.321± 0.561
Mean 1.264 ± 1.359
Sigma 4.845 ± 1.774
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

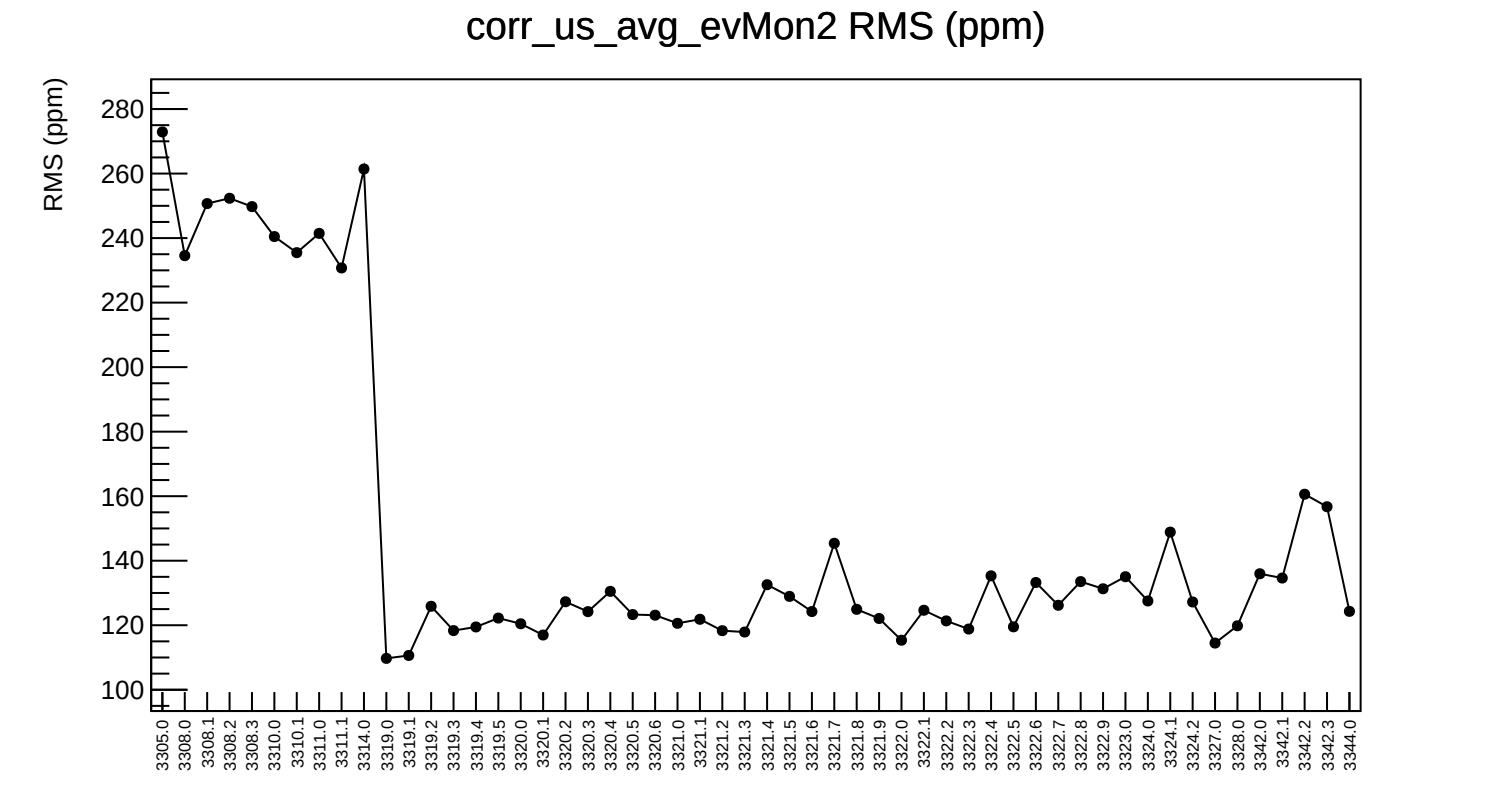

corr_us_avg_evMon0 RMS (ppm)
RMS (ppm)
1400
1200
1000
800
600
400
200
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

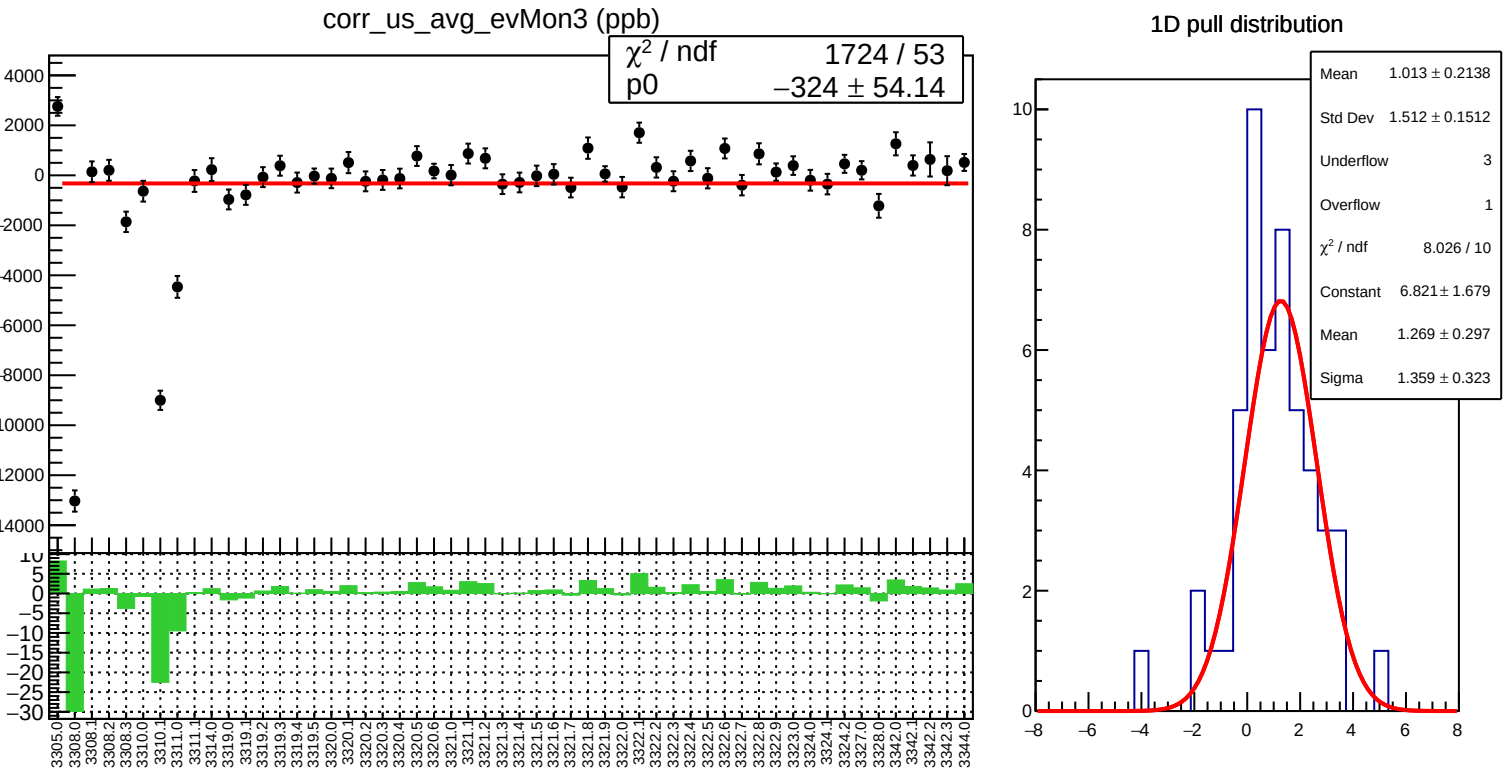

corr_us_avg_evMon1 (ppb)
χ² / ndf 1423 / 53
p0 −427 ± 127.4
10000
5000
0
−5000
−10000
−15000
10
5
0
−5
−10
−15
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

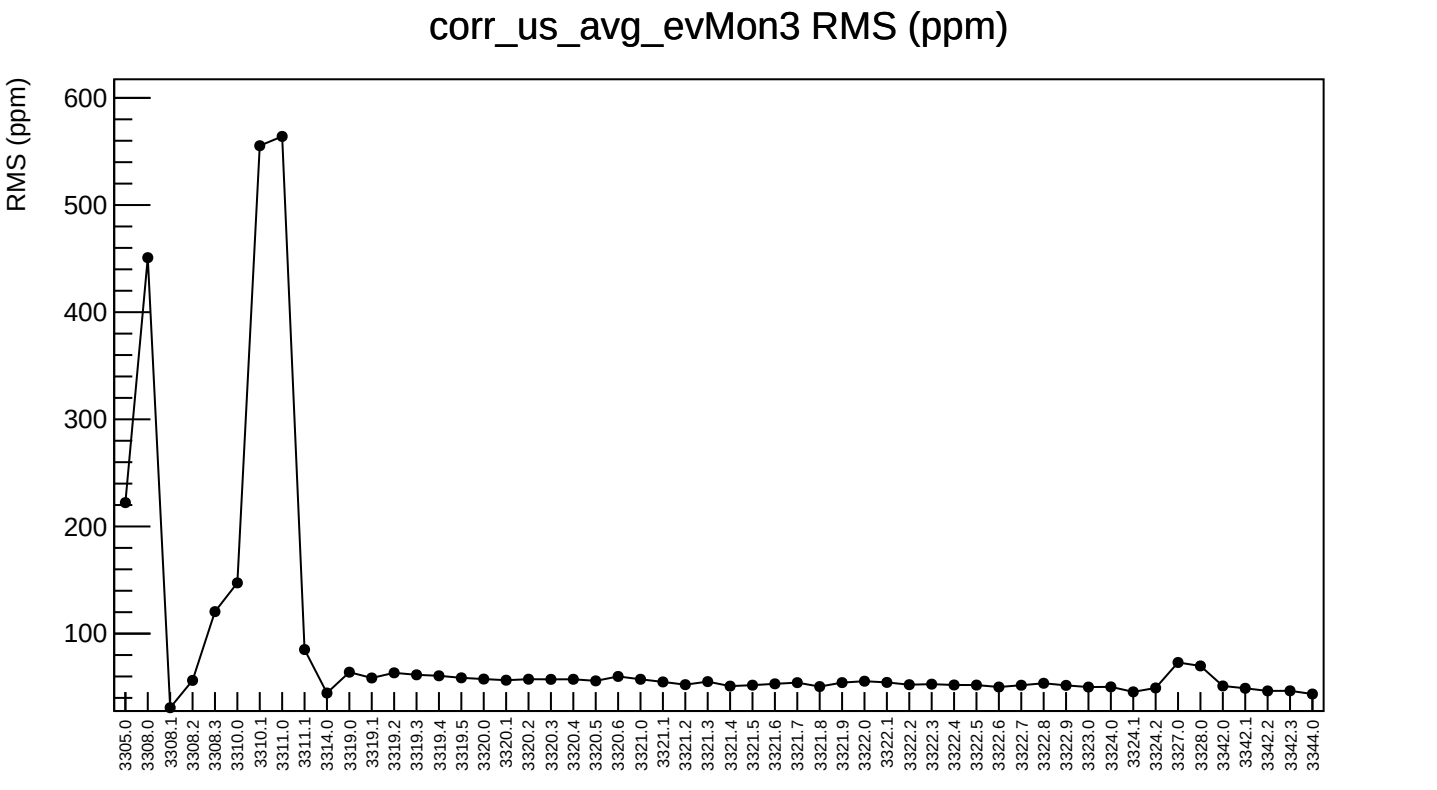

1D pull distribution
Mean 0.2028 ± 0.4449
Std Dev 3.017 ± 0.3146
Underflow 5
Overflow 3
χ² / ndf 10.56 / 18
Constant 2.178 ± 0.504
Mean −0.6388 ± 1.4498
Sigma 4.941 ± 1.945
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

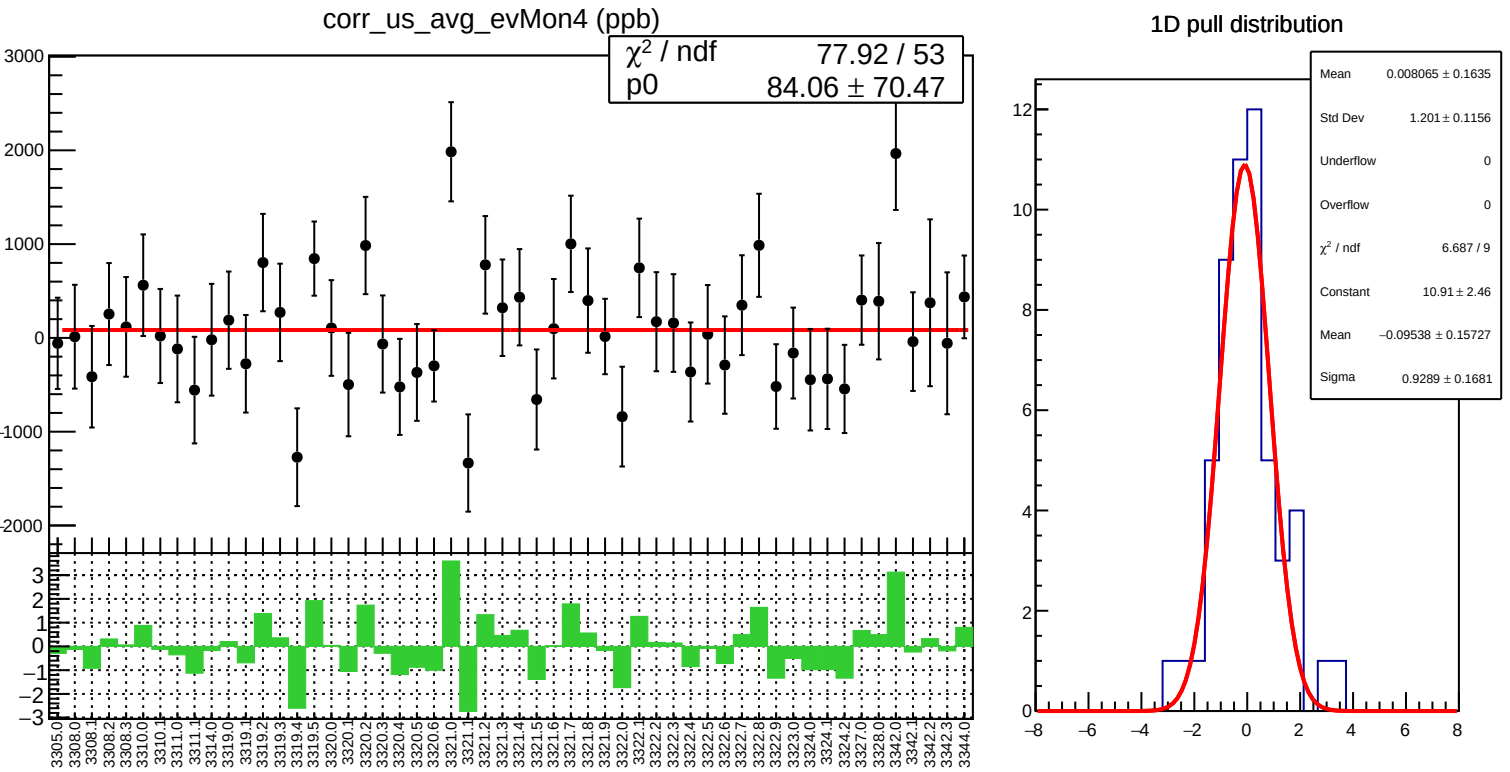

corr_us_avg_evMon1 RMS (ppm)
RMS (ppm)
800
700
600
500
400
300
200
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

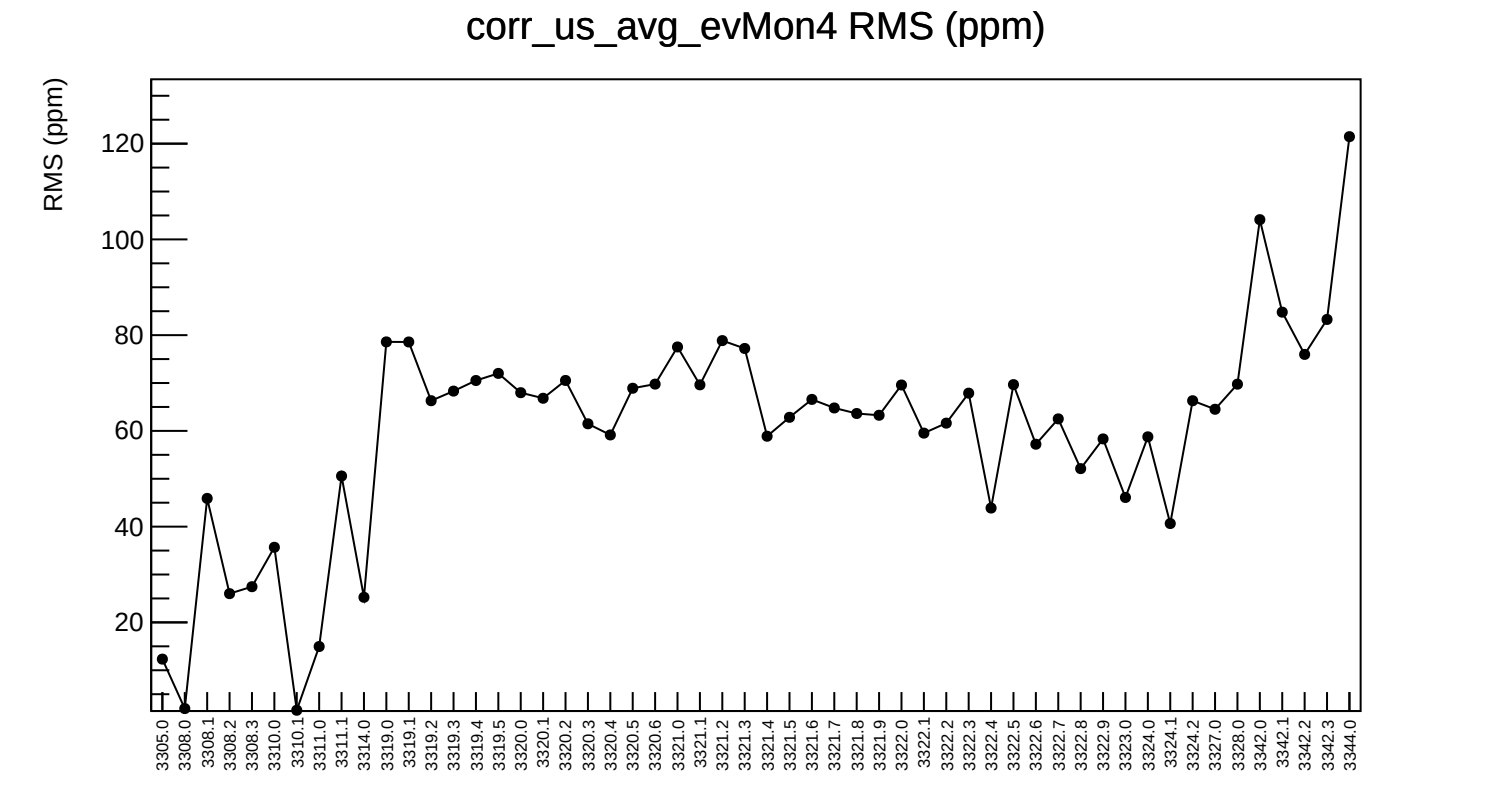

corr_us_avg_evMon2 (ppb)
χ² / ndf 19.6 / 53
p0 −347.1 ± 445.4
1D pull distribution
Mean −0.003642 ± 0.08199
Std Dev 0.6025 ± 0.05798
Underflow 0
Overflow 0
χ² / ndf 4.399 / 4
Constant 25.39 ± 4.74
Mean 0.1143 ± 0.0596
Sigma 0.4157 ± 0.0504

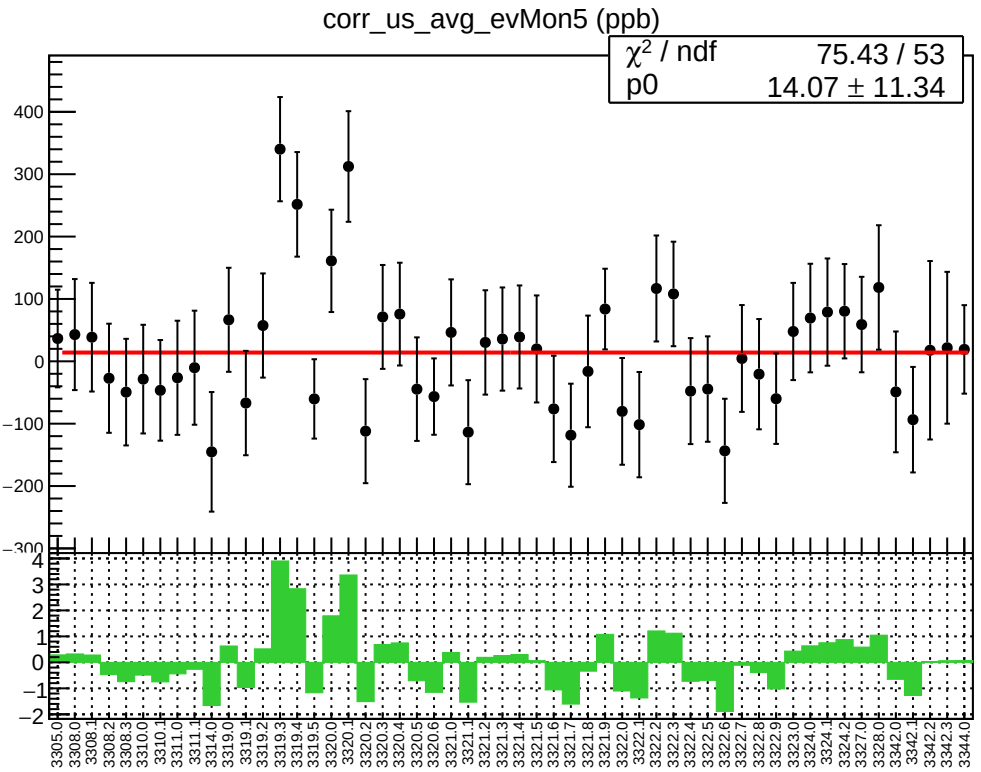

corr_us_avg_evMon2 RMS (ppm)
RMS (ppm)
280
260
240
220
200
180
160
140
120
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

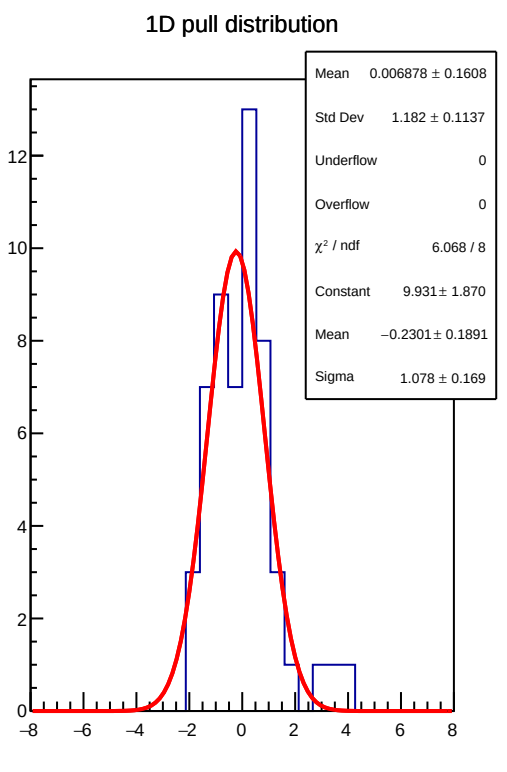

corr_us_avg_evMon3 (ppb)
χ² / ndf 1724 / 53
p0 −324 ± 54.14
1D pull distribution
Mean 1.013 ± 0.2138
Std Dev 1.512 ± 0.1512
Underflow 3
Overflow 1
χ² / ndf 8.026 / 10
Constant 6.821 ± 1.679
Mean 1.269 ± 0.297
Sigma 1.359 ± 0.323

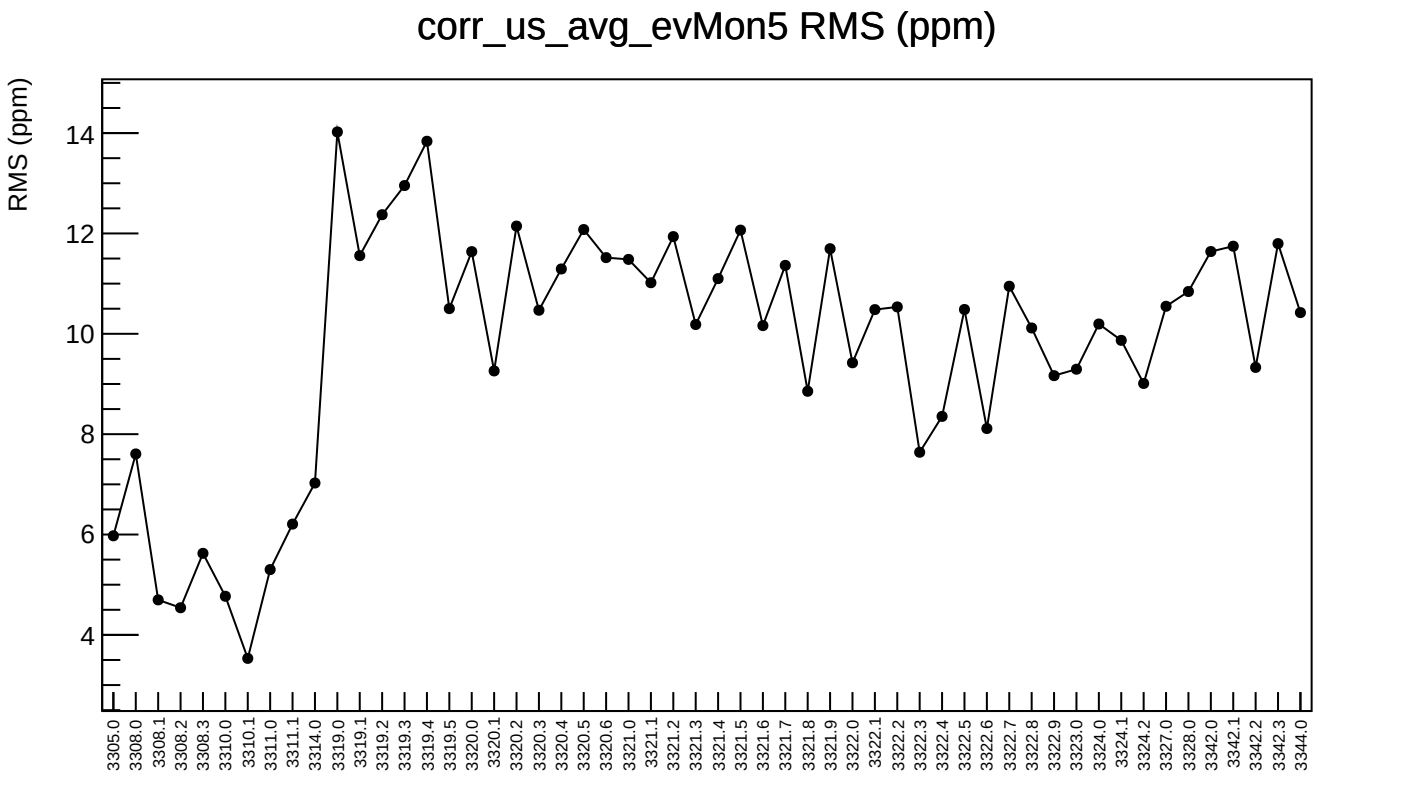

corr_us_avg_evMon3 RMS (ppm)
RMS (ppm)
600
500
400
300
200
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

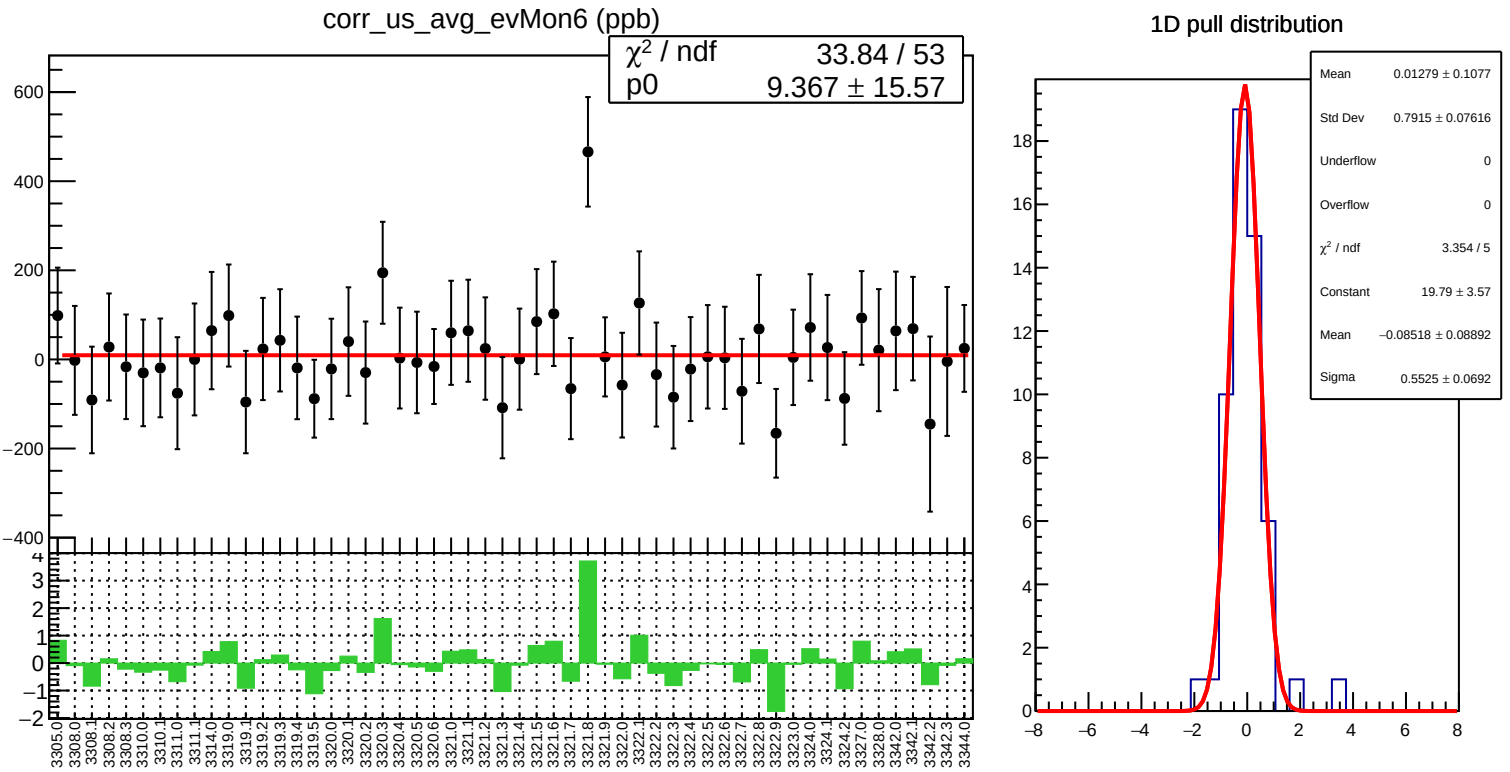

corr_us_avg_evMon4 (ppb)
χ² / ndf 77.92 / 53
p0 84.06 ± 70.47
1D pull distribution
Mean 0.008065 ± 0.1635
Std Dev 1.201 ± 0.1156
Underflow 0
Overflow 0
χ² / ndf 6.687 / 9
Constant 10.91 ± 2.46
Mean −0.09538 ± 0.15727
Sigma 0.9289 ± 0.1681

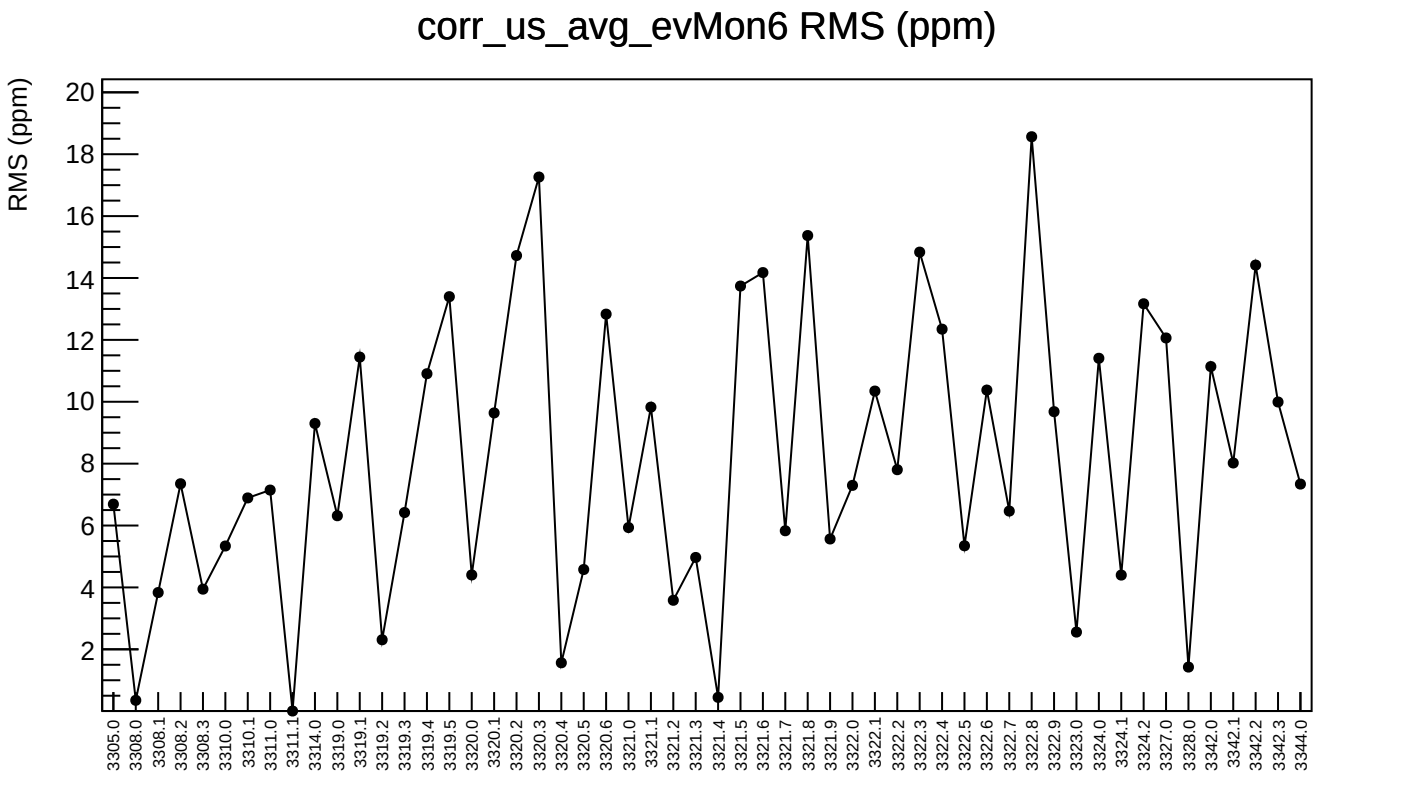

corr_us_avg_evMon4 RMS (ppm)
RMS (ppm)
120
100
80
60
40
20
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

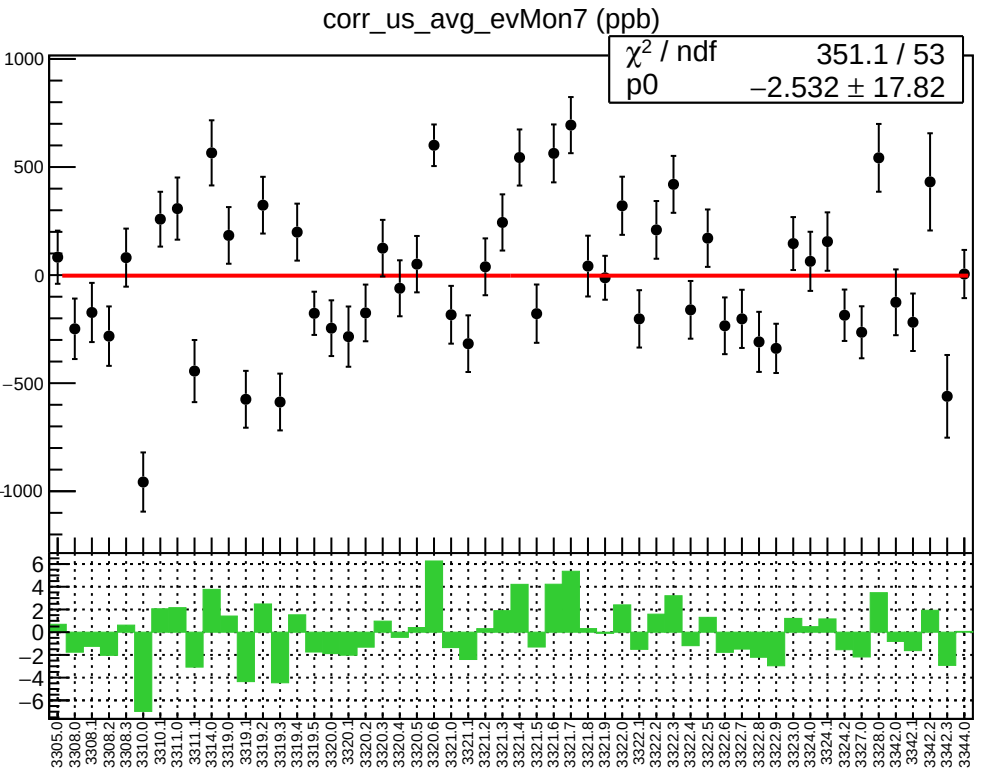

corr_us_avg_evMon5 (ppb)
χ² / ndf 75.43 / 53
p0 14.07 ± 11.34
400
300
200
100
0
−100
−200
−300
4
3
2
1
0
−1
−2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

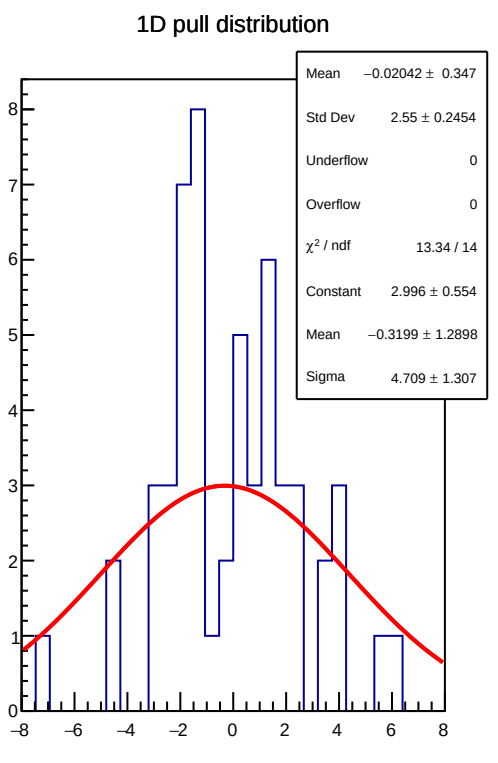

1D pull distribution
Mean 0.006878 ± 0.1608
Std Dev 1.182 ± 0.1137
Underflow 0
Overflow 0
χ² / ndf 6.068 / 8
Constant 9.931± 1.870
Mean −0.2301± 0.1891
Sigma 1.078 ± 0.169
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

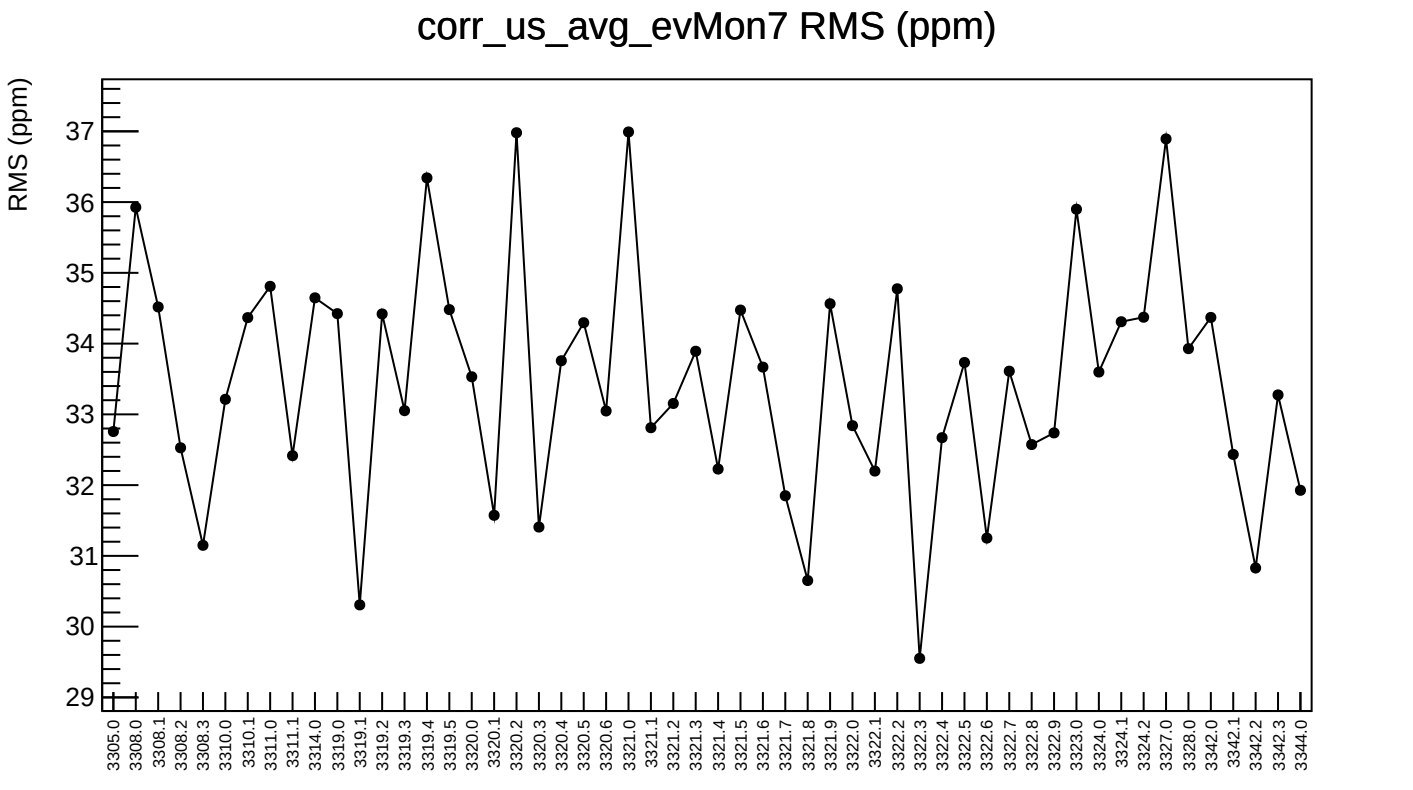

corr_us_avg_evMon5 RMS (ppm)
RMS (ppm)
14
12
10
8
6
4
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

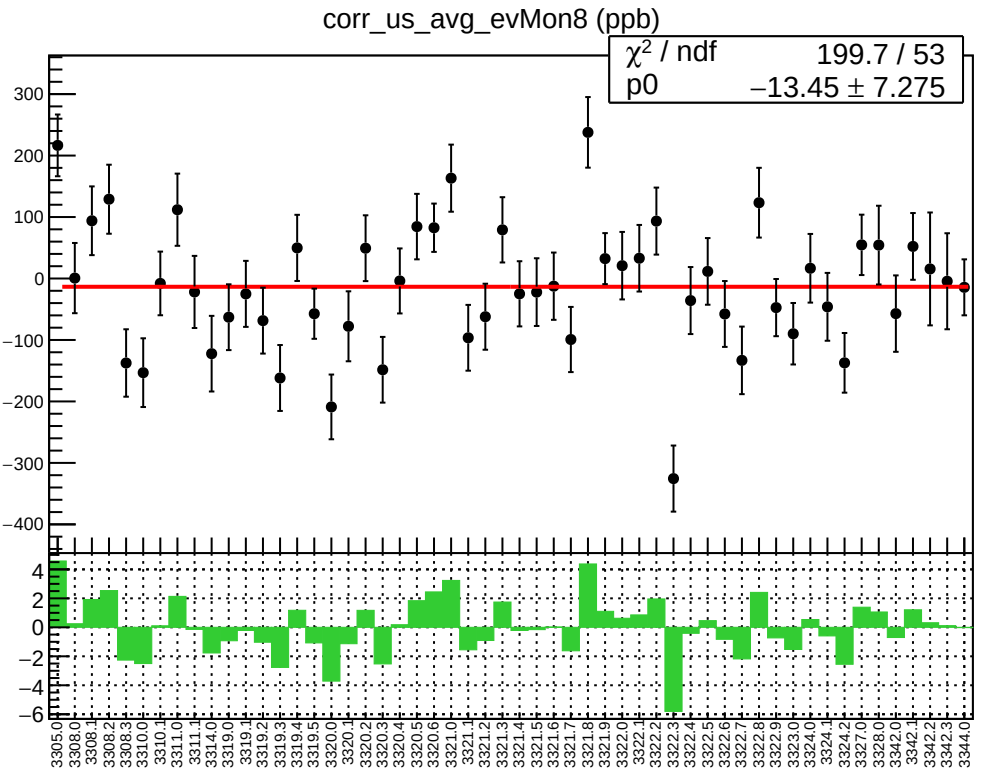

corr_us_avg_evMon6 (ppb)
χ² / ndf 33.84 / 53
p0 9.367 ± 15.57
1D pull distribution
Mean 0.01279 ± 0.1077
Std Dev 0.7915 ± 0.07616
Underflow 0
Overflow 0
χ² / ndf 3.354 / 5
Constant 19.79 ± 3.57
Mean −0.08518 ± 0.08892
Sigma 0.5525 ± 0.0692

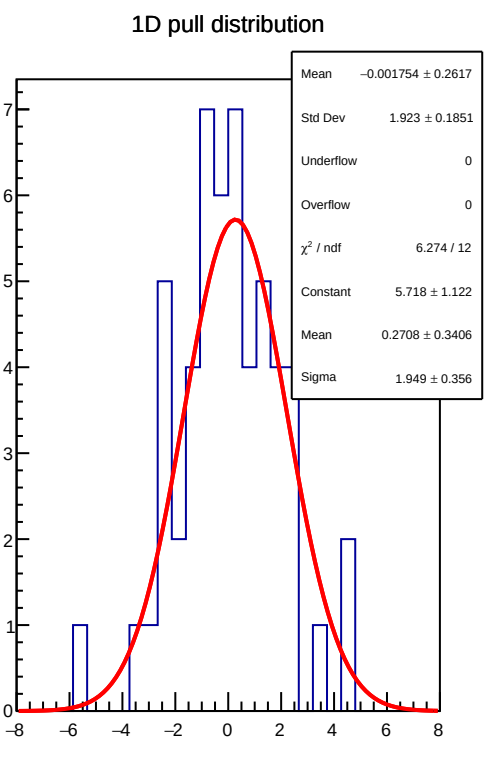

corr_us_avg_evMon6 RMS (ppm)
RMS (ppm)
20
18
16
14
12
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

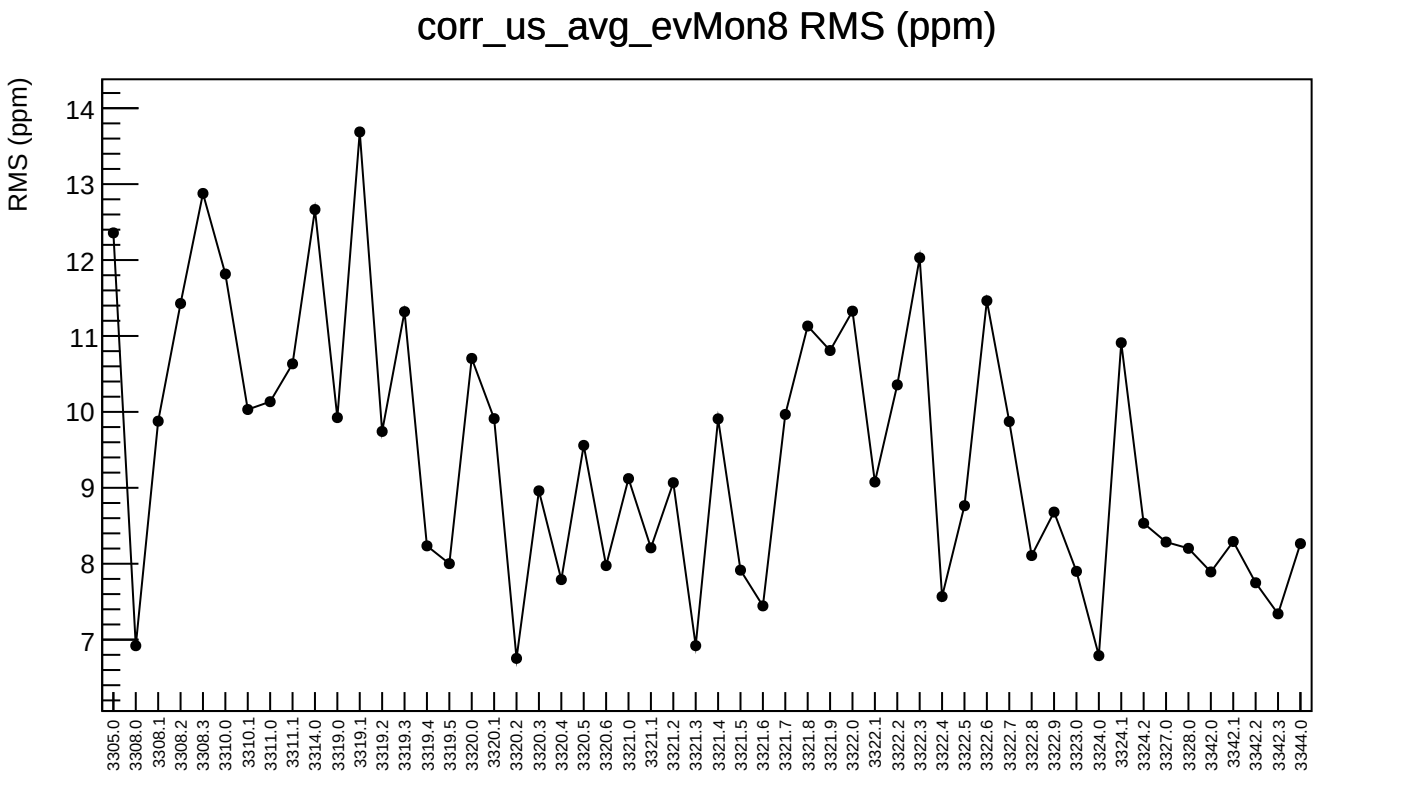

corr_us_avg_evMon7 (ppb)
χ² / ndf 351.1 / 53
p0 −2.532 ± 17.82
1000
500
0
−500
−1000
6
4
2
0
−2
−4
−6
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

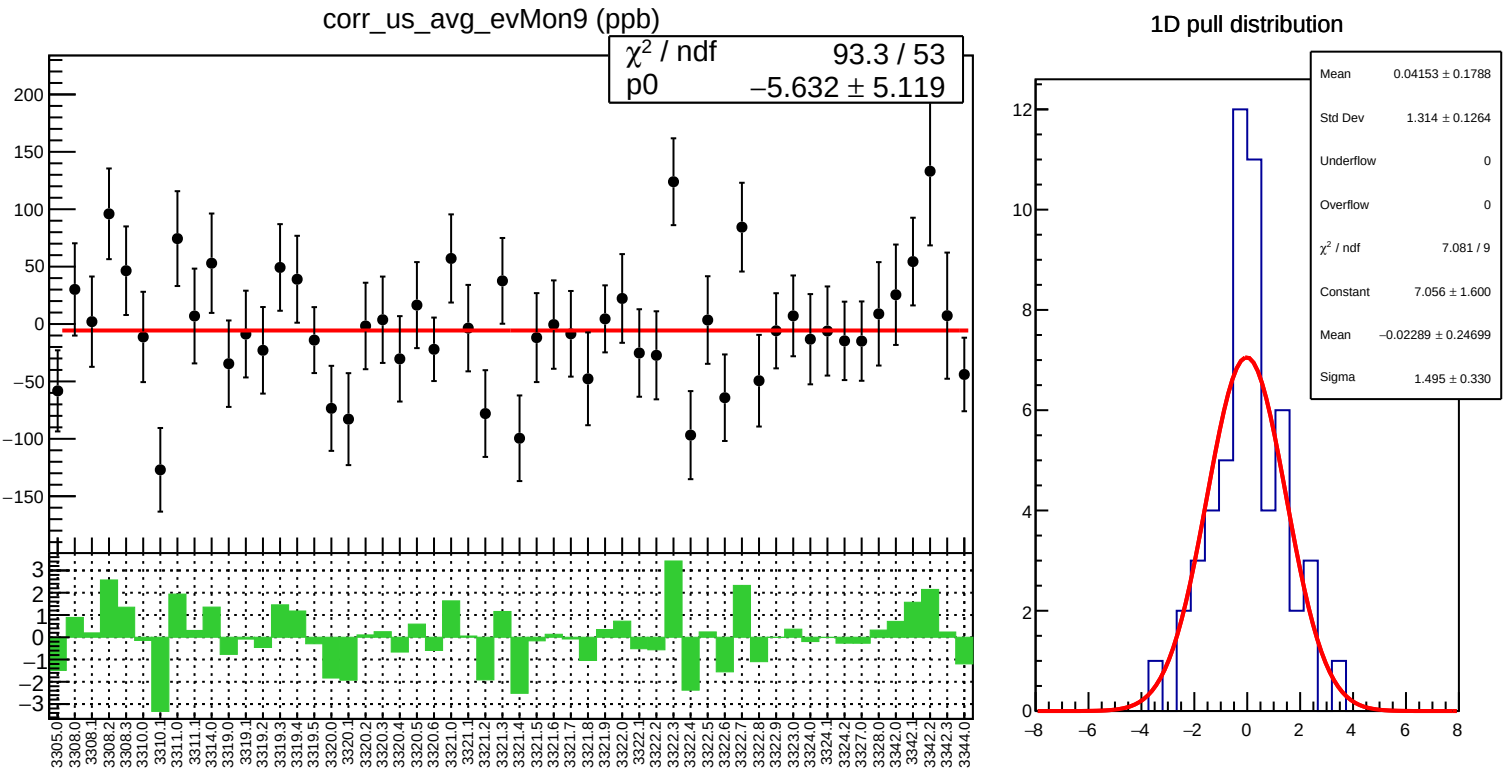

1D pull distribution
Mean −0.02042 ± 0.347
Std Dev 2.55 ± 0.2454
Underflow 0
Overflow 0
χ² / ndf 13.34 / 14
Constant 2.996 ± 0.554
Mean −0.3199 ± 1.2898
Sigma 4.709 ± 1.307
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

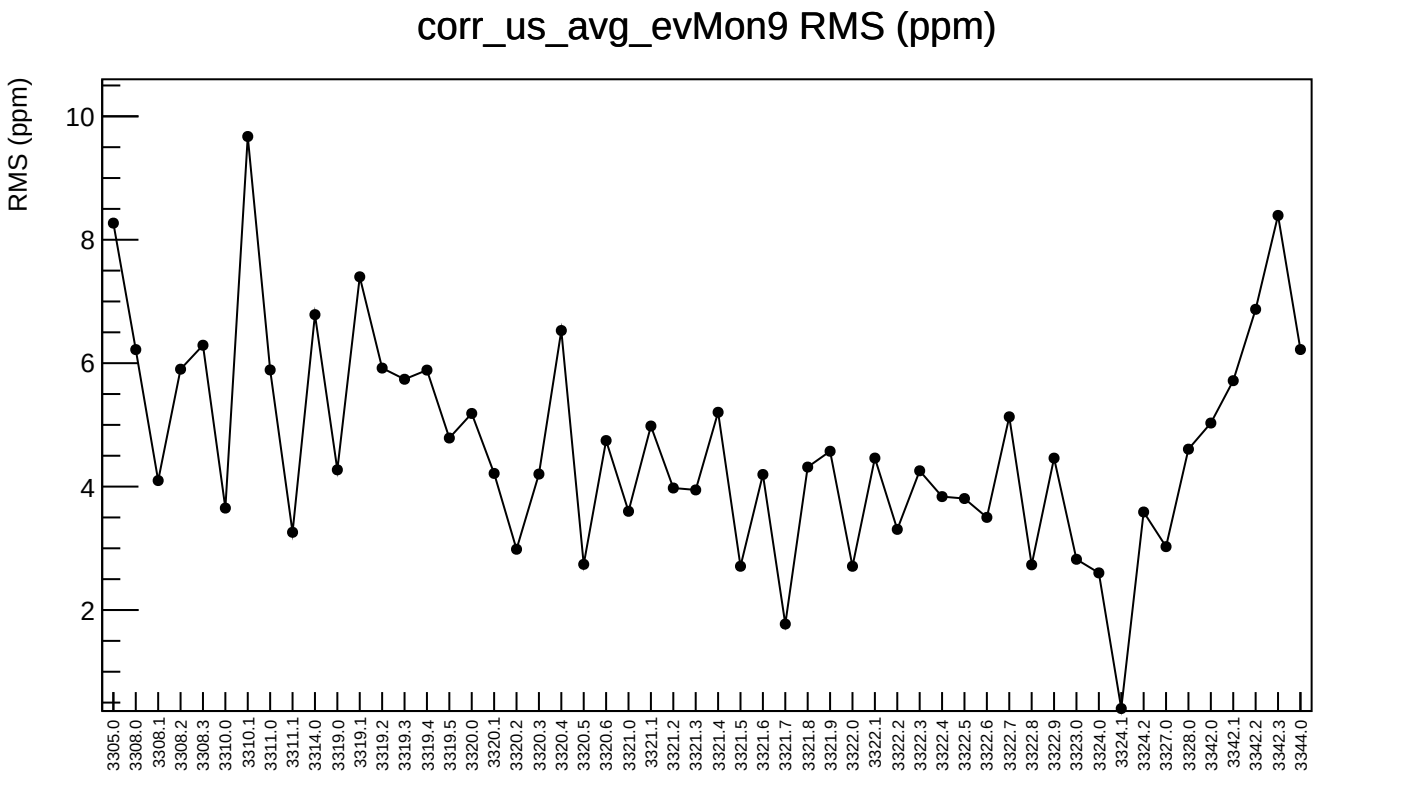

corr_us_avg_evMon7 RMS (ppm)
RMS (ppm)
37
36
35
34
33
32
31
30
29
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

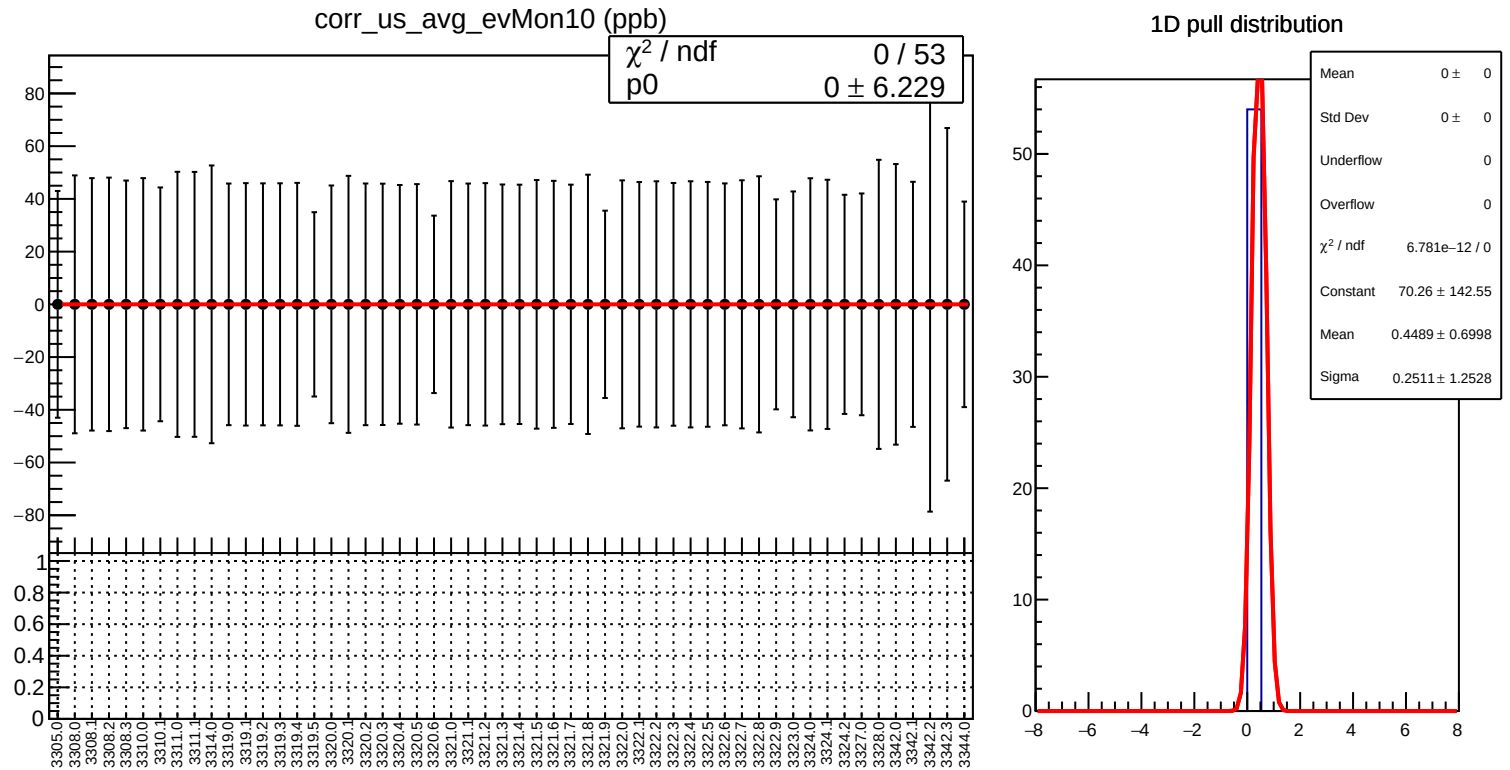

corr_us_avg_evMon8 (ppb)
χ² / ndf 199.7 / 53
p0 −13.45 ± 7.275
300
200
100
0
−100
−200
−300
−400
4
2
0
−2
−4
−6
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

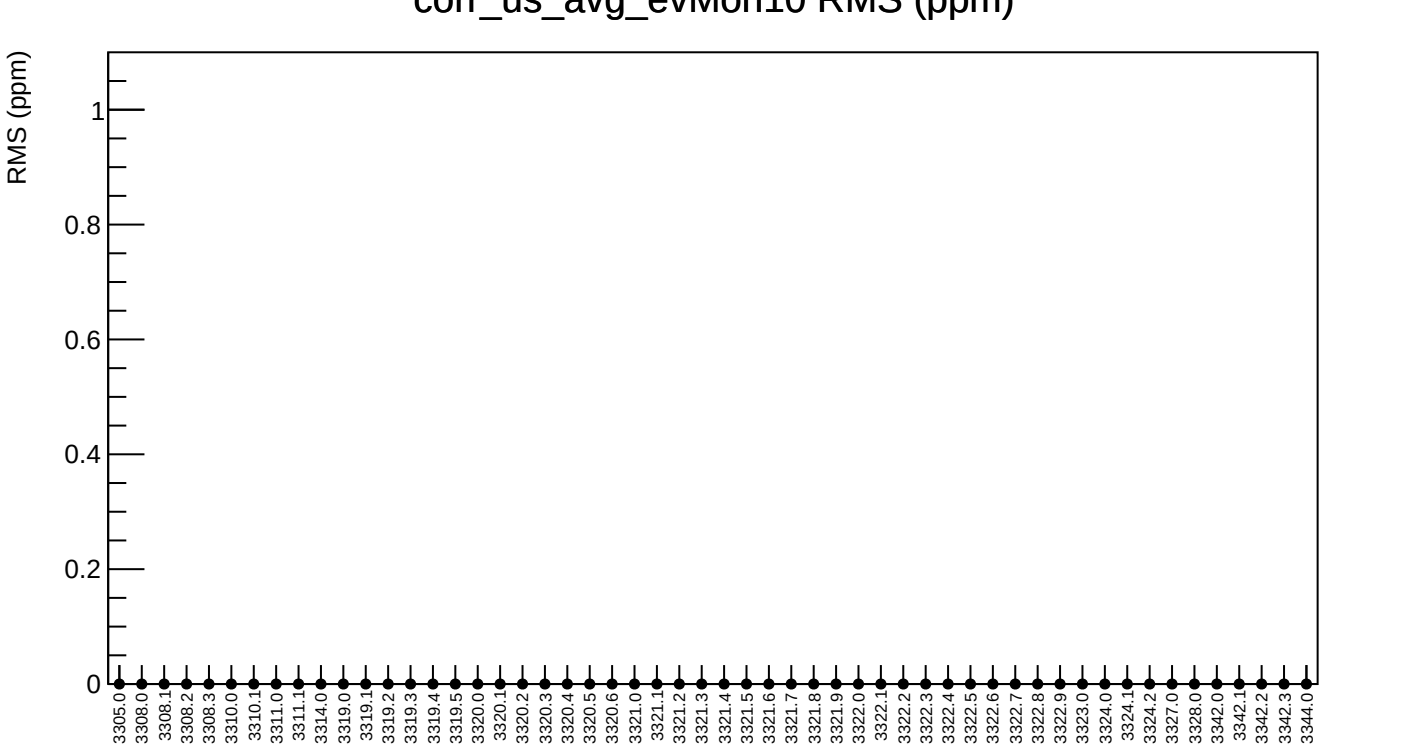

1D pull distribution
Mean −0.001754 ± 0.2617
Std Dev 1.923 ± 0.1851
Underflow 0
Overflow 0
χ² / ndf 6.274 / 12
Constant 5.718 ± 1.122
Mean 0.2708 ± 0.3406
Sigma 1.949 ± 0.356
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

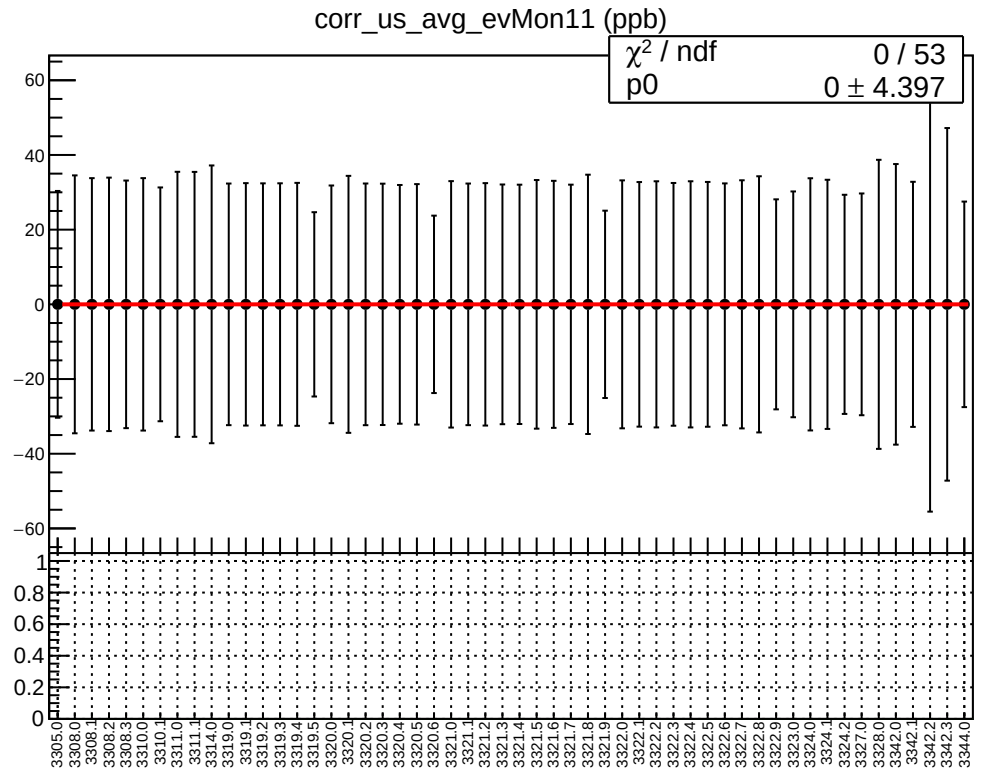

corr_us_avg_evMon8 RMS (ppm)
RMS (ppm)
14
13
12
11
10
9
8
7
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

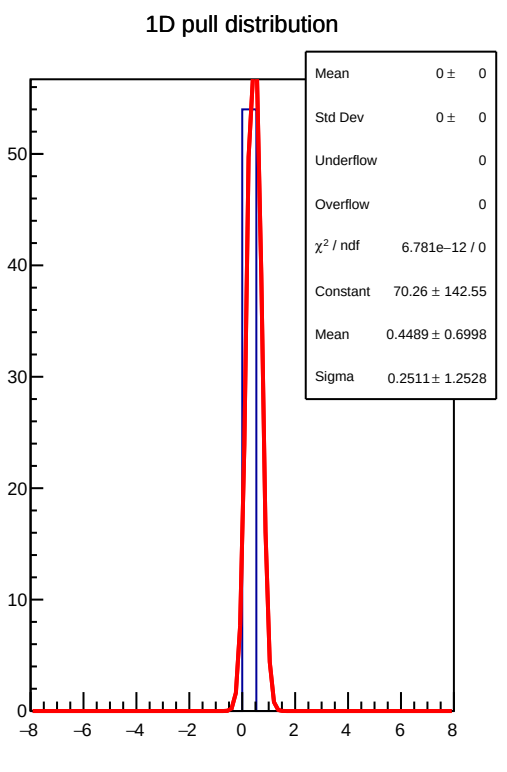

corr_us_avg_evMon9 (ppb)
χ² / ndf 93.3 / 53
p0 −5.632 ± 5.119
1D pull distribution
Mean 0.04153 ± 0.1788
Std Dev 1.314 ± 0.1264
Underflow 0
Overflow 0
χ² / ndf 7.081 / 9
Constant 7.056 ± 1.600
Mean −0.02289 ± 0.24699
Sigma 1.495 ± 0.330

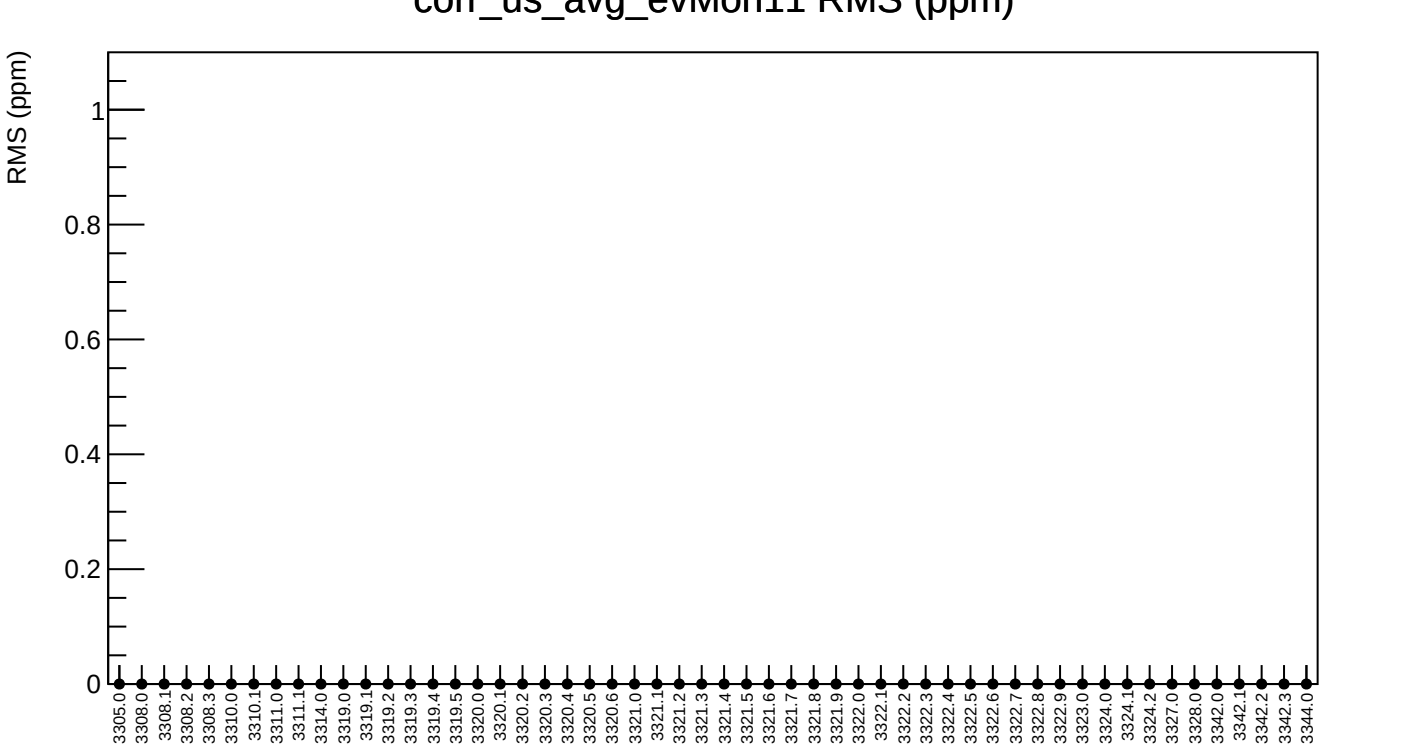

corr_us_avg_evMon9 RMS (ppm)
RMS (ppm)
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

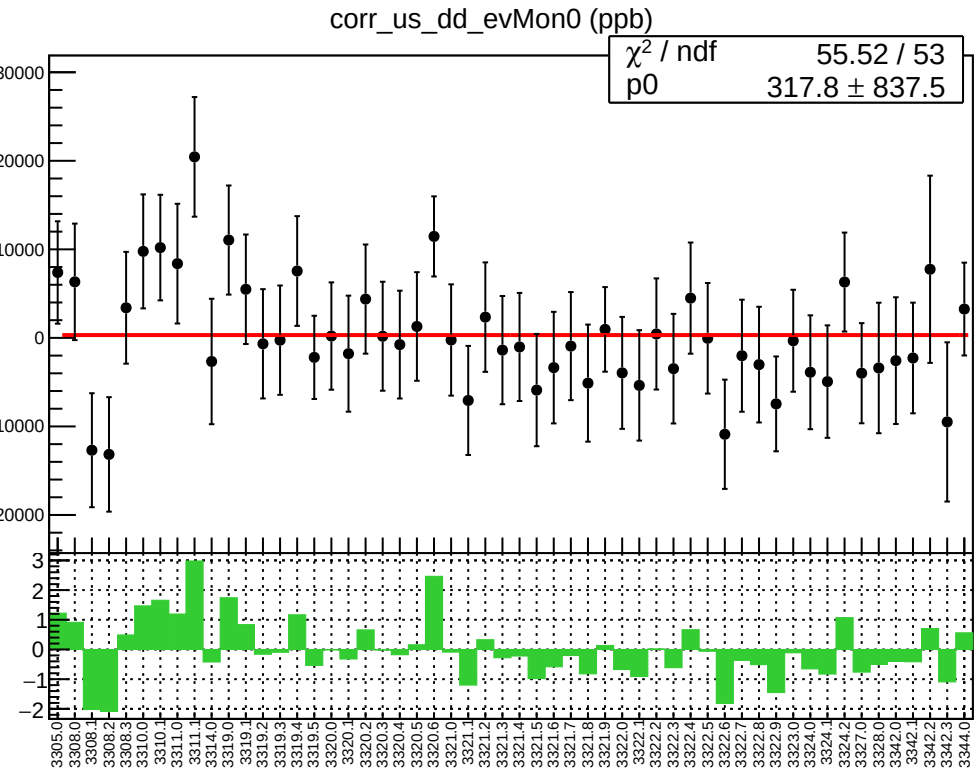

corr_us_avg_evMon10 (ppb)
χ² / ndf 0 / 53
p0 0 ± 6.229
1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528

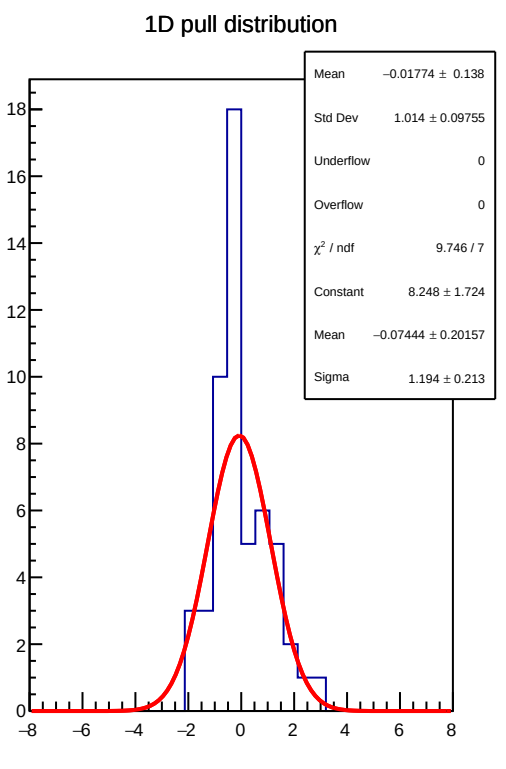

corr_us_avg_evMon10 RMS (ppm)
RMS (ppm)
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

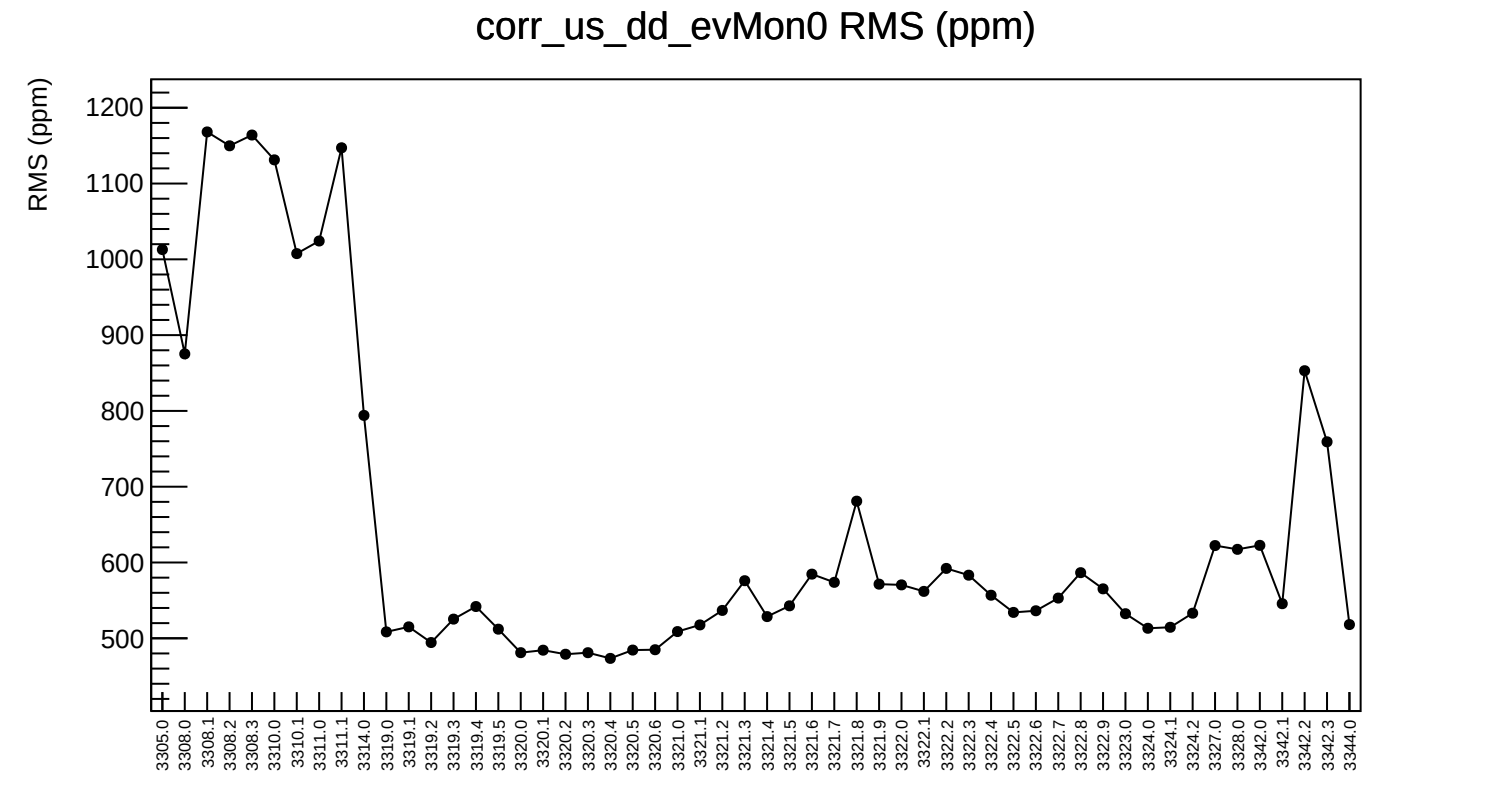

corr_us_avg_evMon11 (ppb)
χ² / ndf 0 / 53
p0 0 ± 4.397
60
40
20
0
−20
−40
−60
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

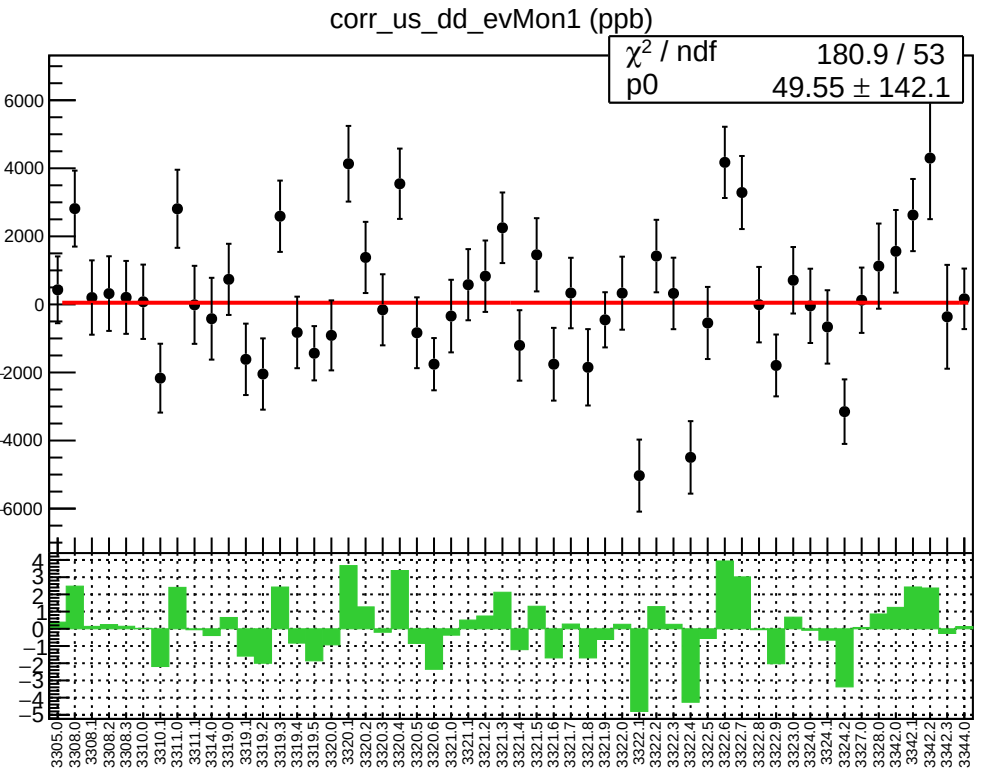

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

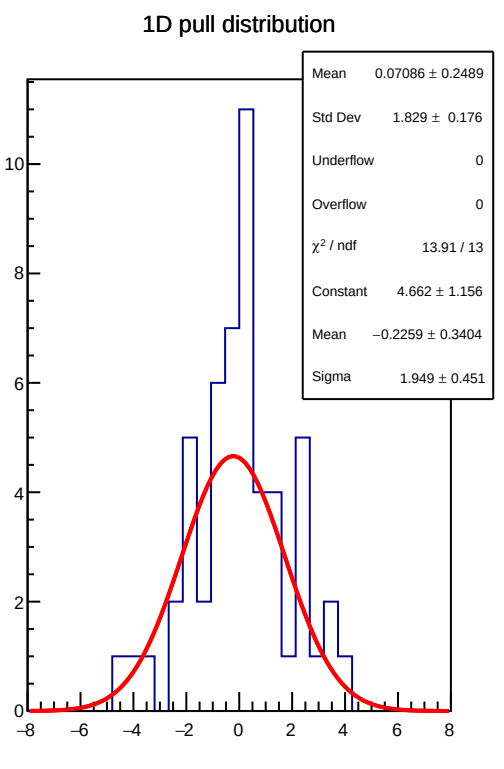

corr_us_avg_evMon11 RMS (ppm)
RMS (ppm)
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

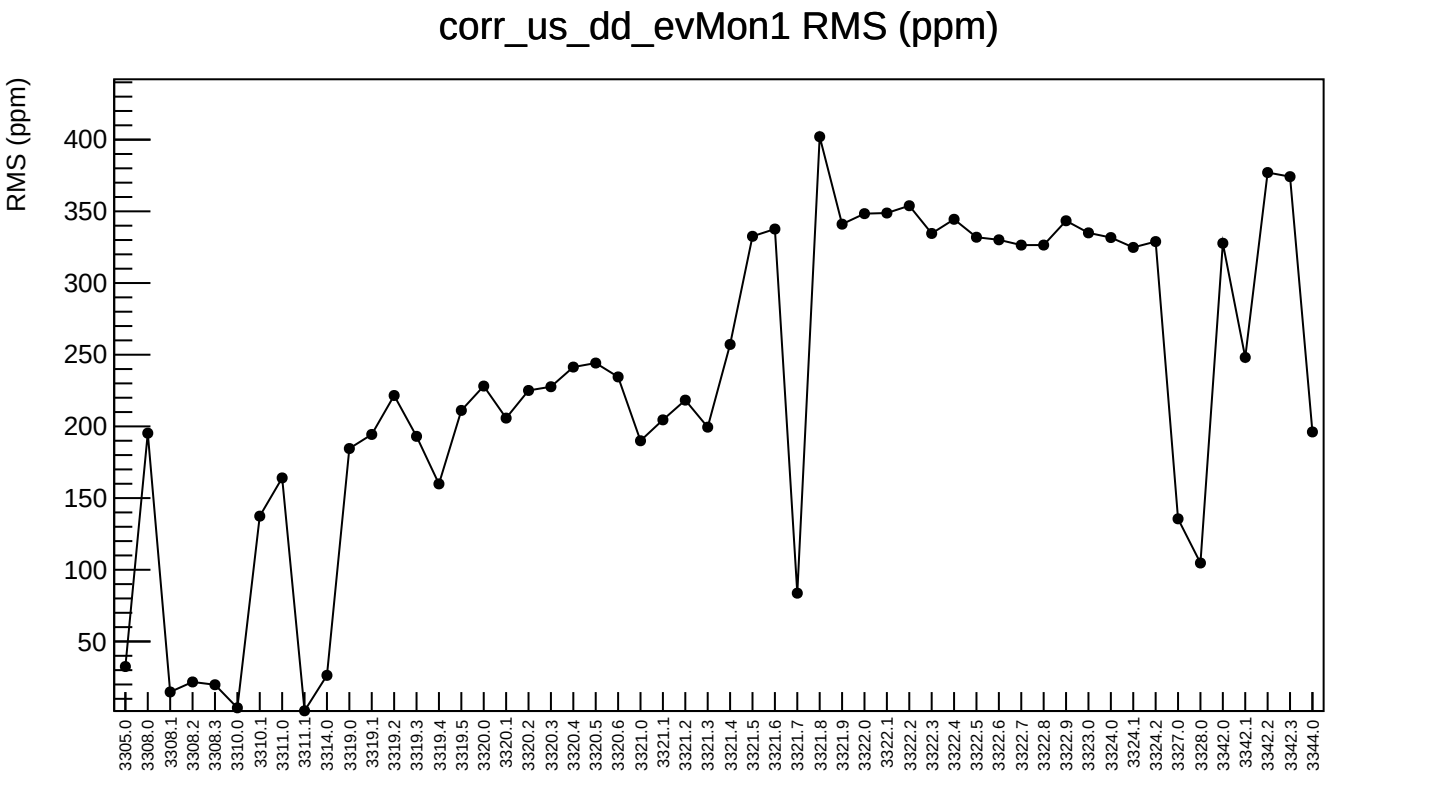

corr_us_dd_evMon0 (ppb)
χ² / ndf 55.52 / 53
p0 317.8 ± 837.5
30000
20000
10000
0
10000
20000
3
2
1
0
−1
−2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

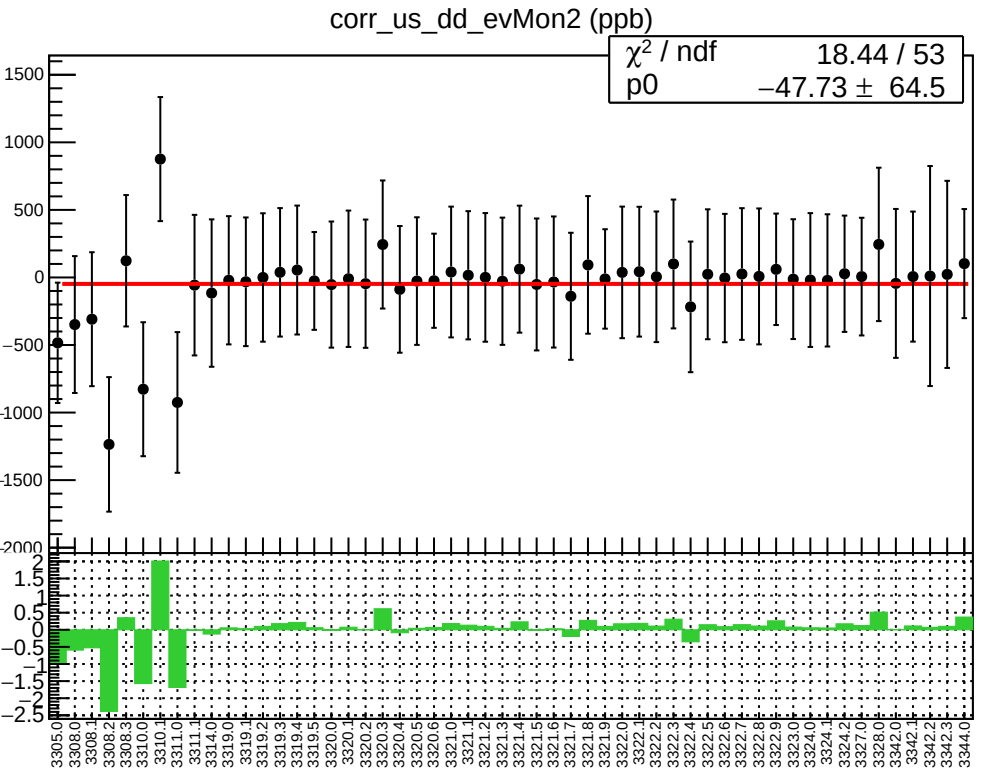

1D pull distribution
Mean −0.01774 ± 0.138
Std Dev 1.014 ± 0.09755
Underflow 0
Overflow 0
χ² / ndf 9.746 / 7
Constant 8.248 ± 1.724
Mean −0.07444 ± 0.20157
Sigma 1.194 ± 0.213
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

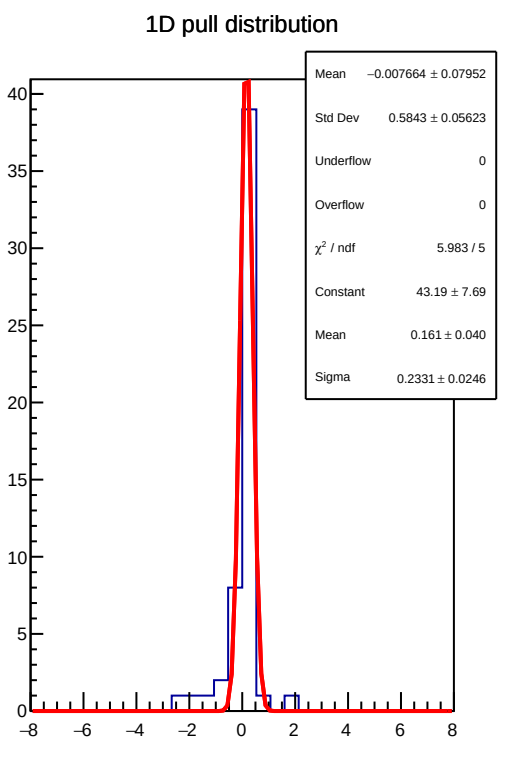

corr_us_dd_evMon0 RMS (ppm)
RMS (ppm)
1200
1100
1000
900
800
700
600
500
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

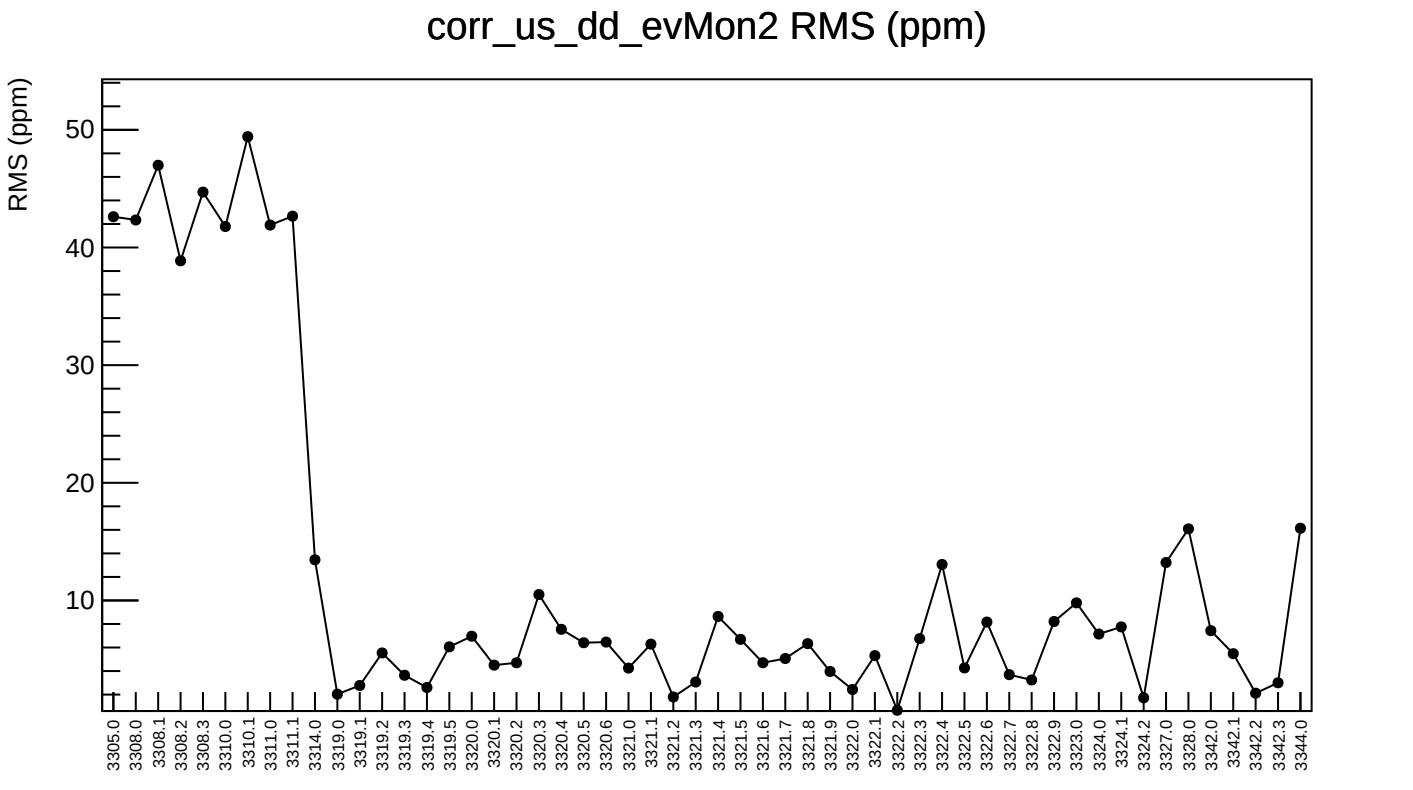

corr_us_dd_evMon1 (ppb)
χ² / ndf 180.9 / 53
p0 49.55 ± 142.1
6000
4000
2000
0
-2000
-4000
-6000
4
3
2
1
0
−1
−2
−3
−4
−5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

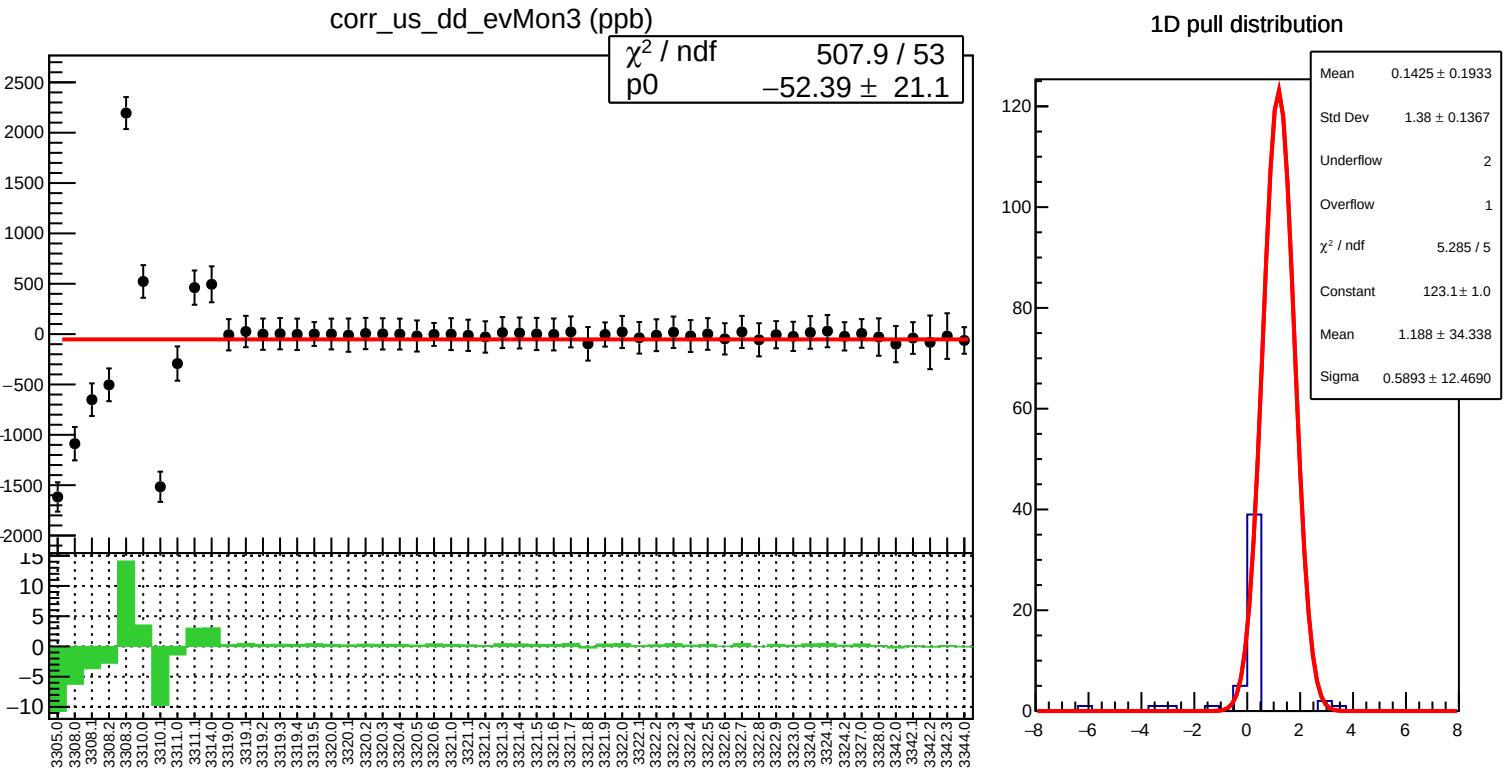

1D pull distribution
Mean 0.07086 ± 0.2489
Std Dev 1.829 ± 0.176
Underflow 0
Overflow 0
χ² / ndf 13.91 / 13
Constant 4.662 ± 1.156
Mean −0.2259 ± 0.3404
Sigma 1.949 ± 0.451
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

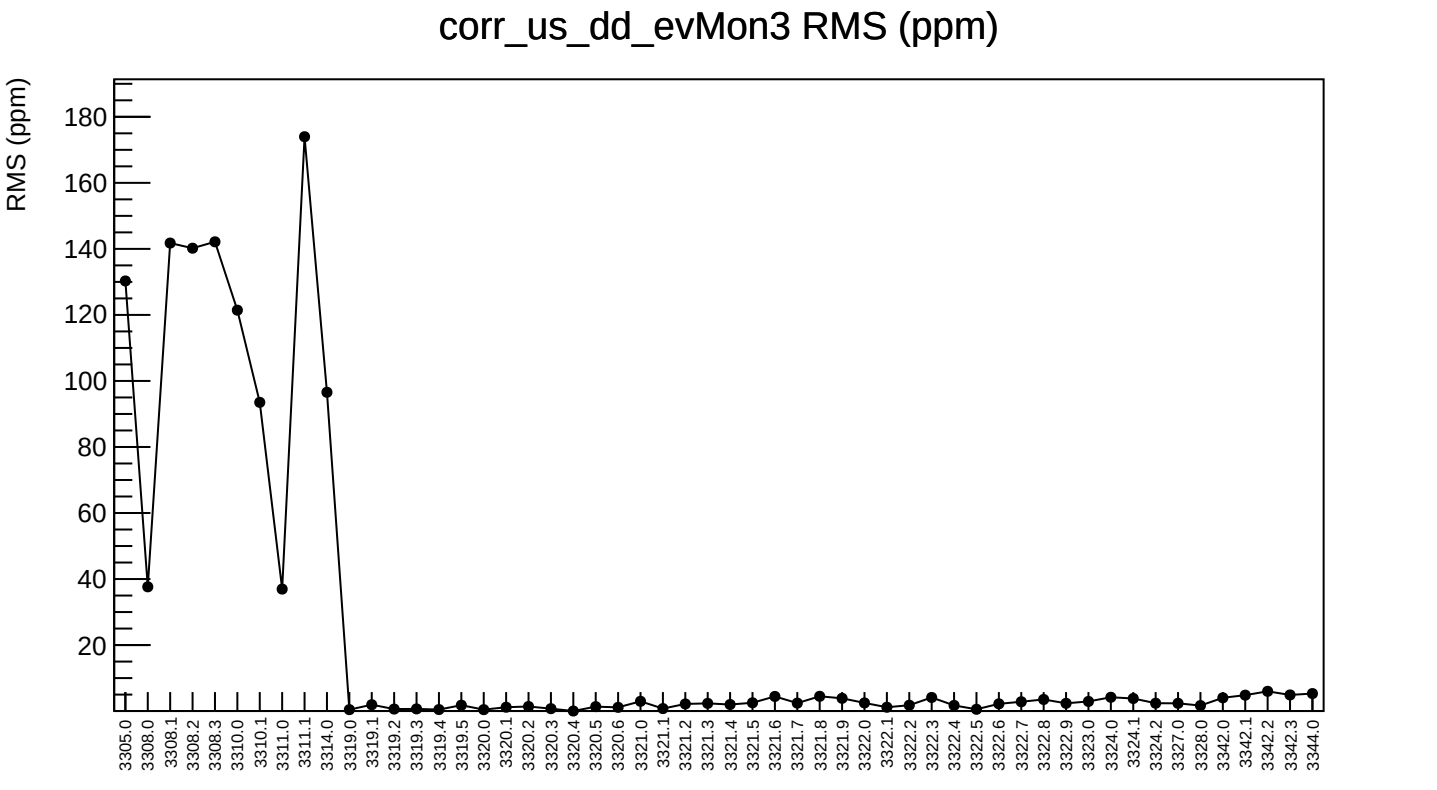

corr_us_dd_evMon1 RMS (ppm)
RMS (ppm)
400
350
300
250
200
150
100
50
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

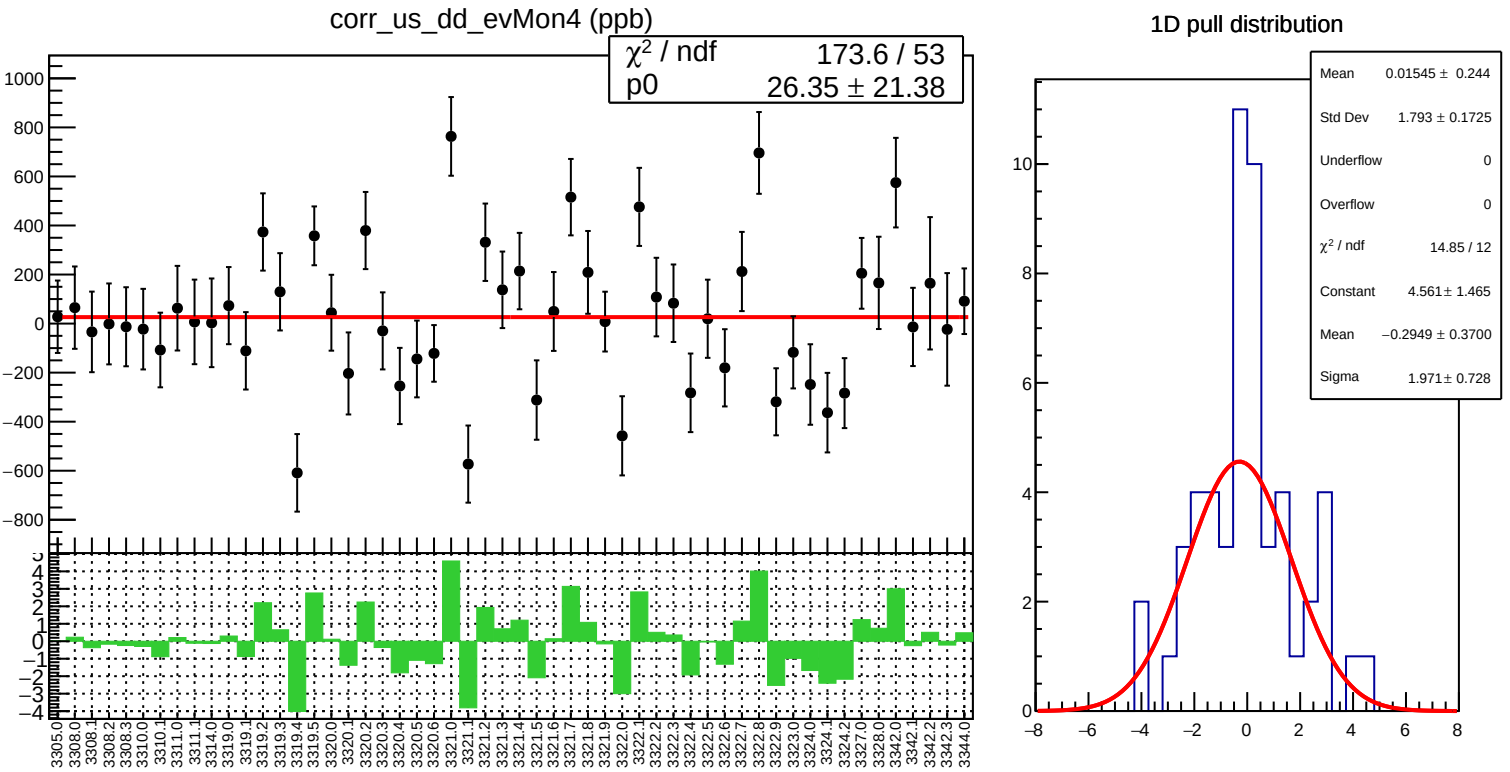

corr_us_dd_evMon2 (ppb)
χ² / ndf 18.44 / 53
p0 −47.73 ± 64.5
1500
1000
500
0
−500
−1000
−1500
−2000
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

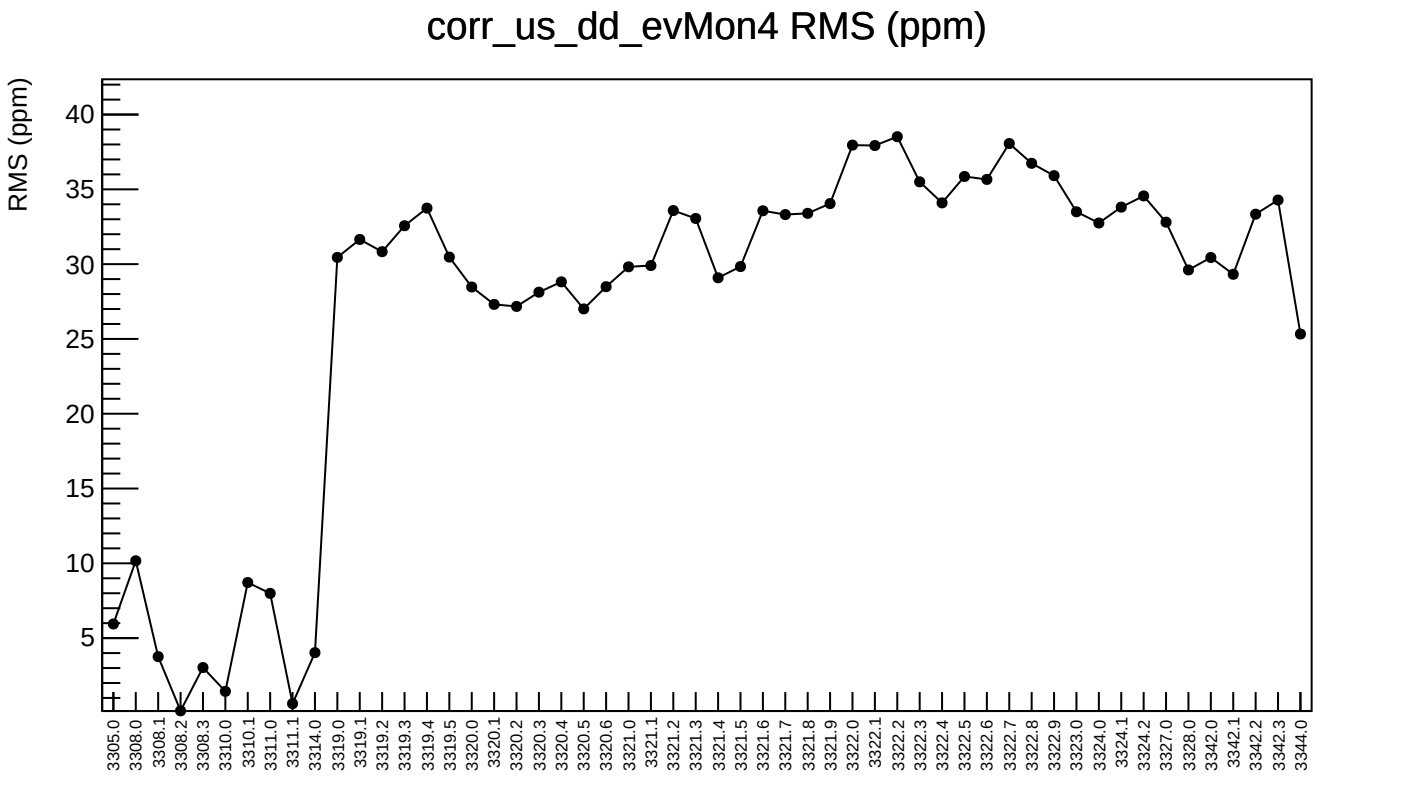

1D pull distribution
Mean −0.007664 ± 0.07952
Std Dev 0.5843 ± 0.05623
Underflow 0
Overflow 0
χ² / ndf 5.983 / 5
Constant 43.19 ± 7.69
Mean 0.161 ± 0.040
Sigma 0.2331 ± 0.0246
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

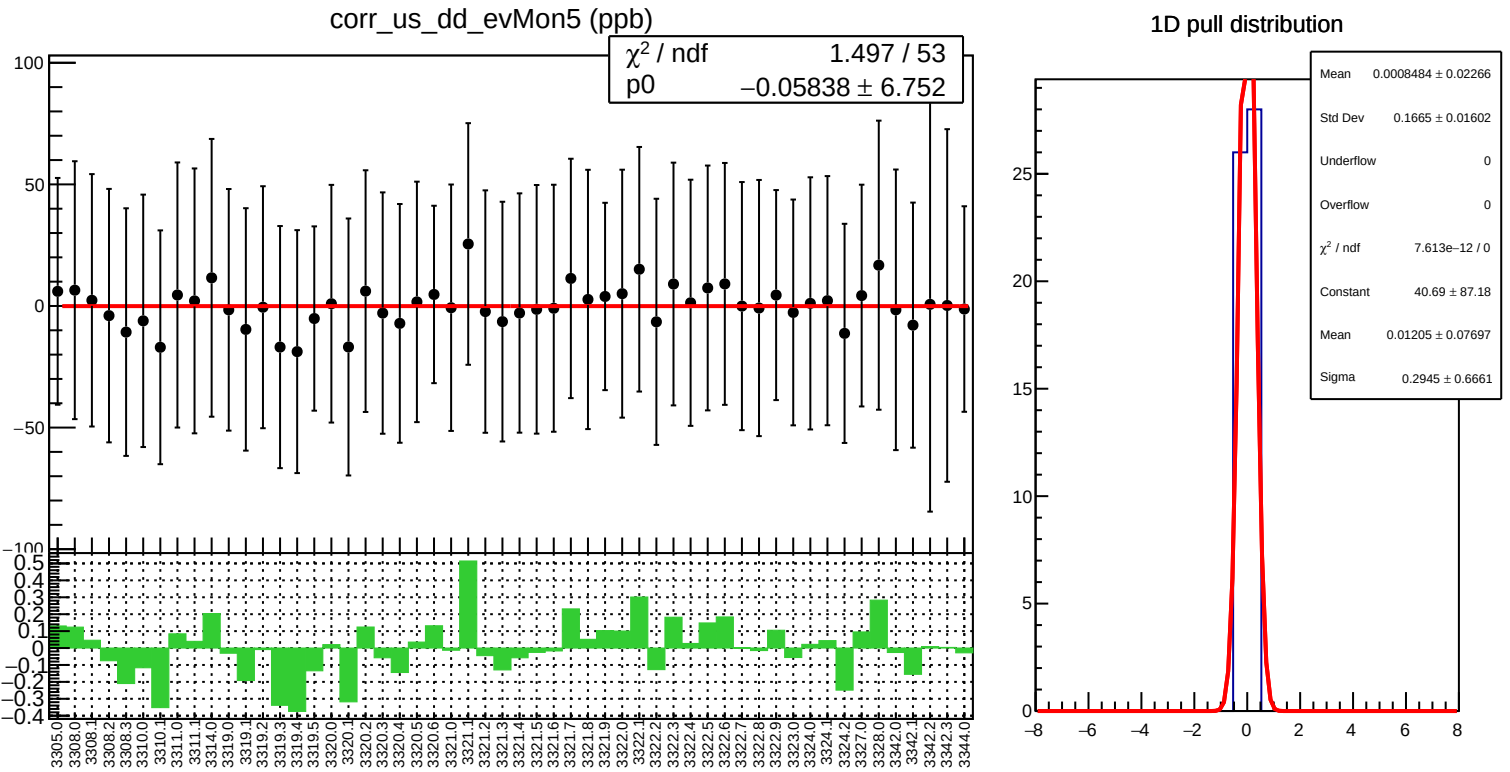

corr_us_dd_evMon2 RMS (ppm)
RMS (ppm)
50
40
30
20
10
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

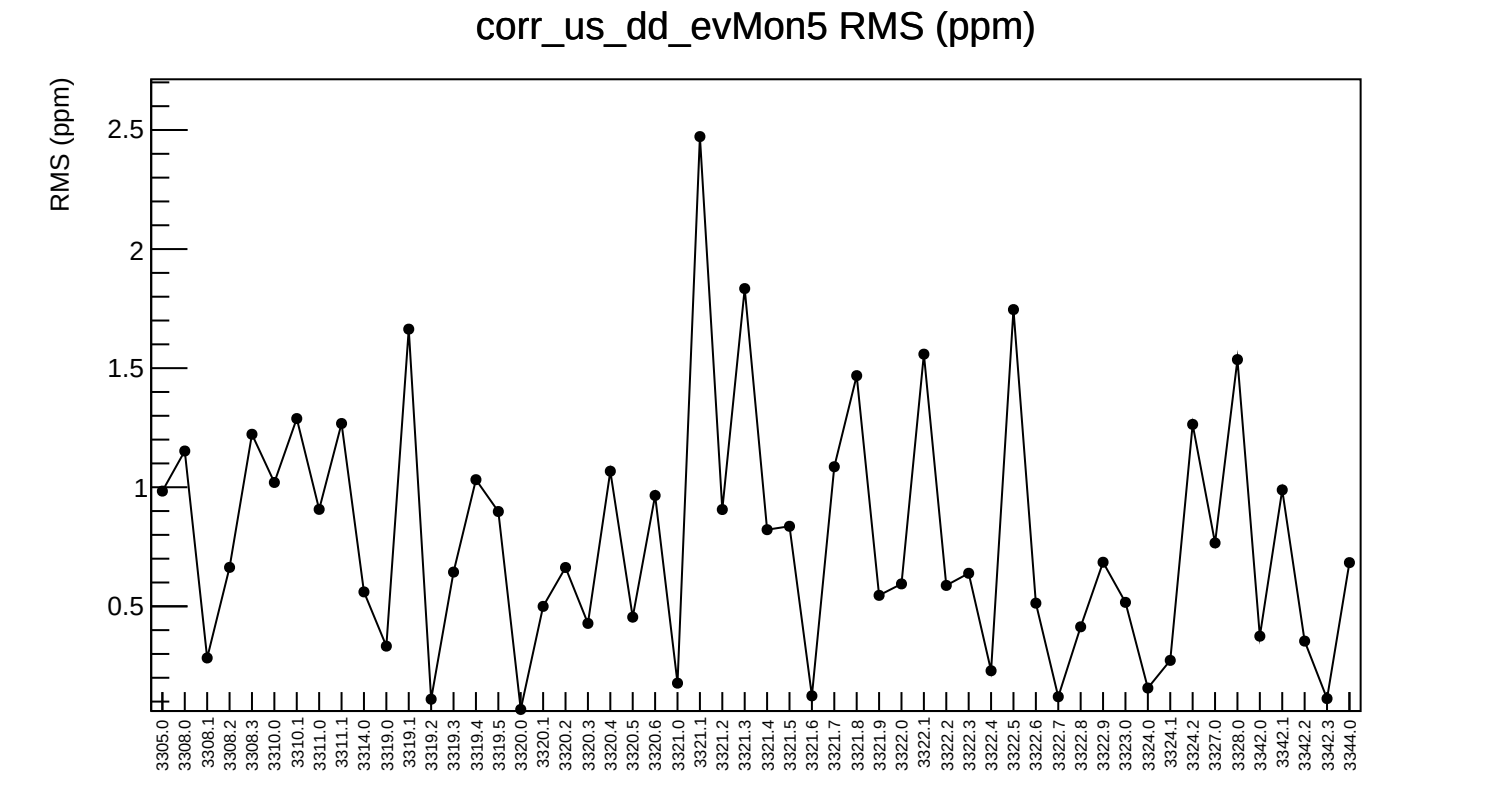

corr_us_dd_evMon3 (ppb)
χ² / ndf 507.9 / 53
p0 −52.39 ± 21.1
1D pull distribution
Mean 0.1425 ± 0.1933
Std Dev 1.38 ± 0.1367
Underflow 2
Overflow 1
χ² / ndf 5.285 / 5
Constant 123.1± 1.0
Mean 1.188 ± 34.338
Sigma 0.5893 ± 12.4690

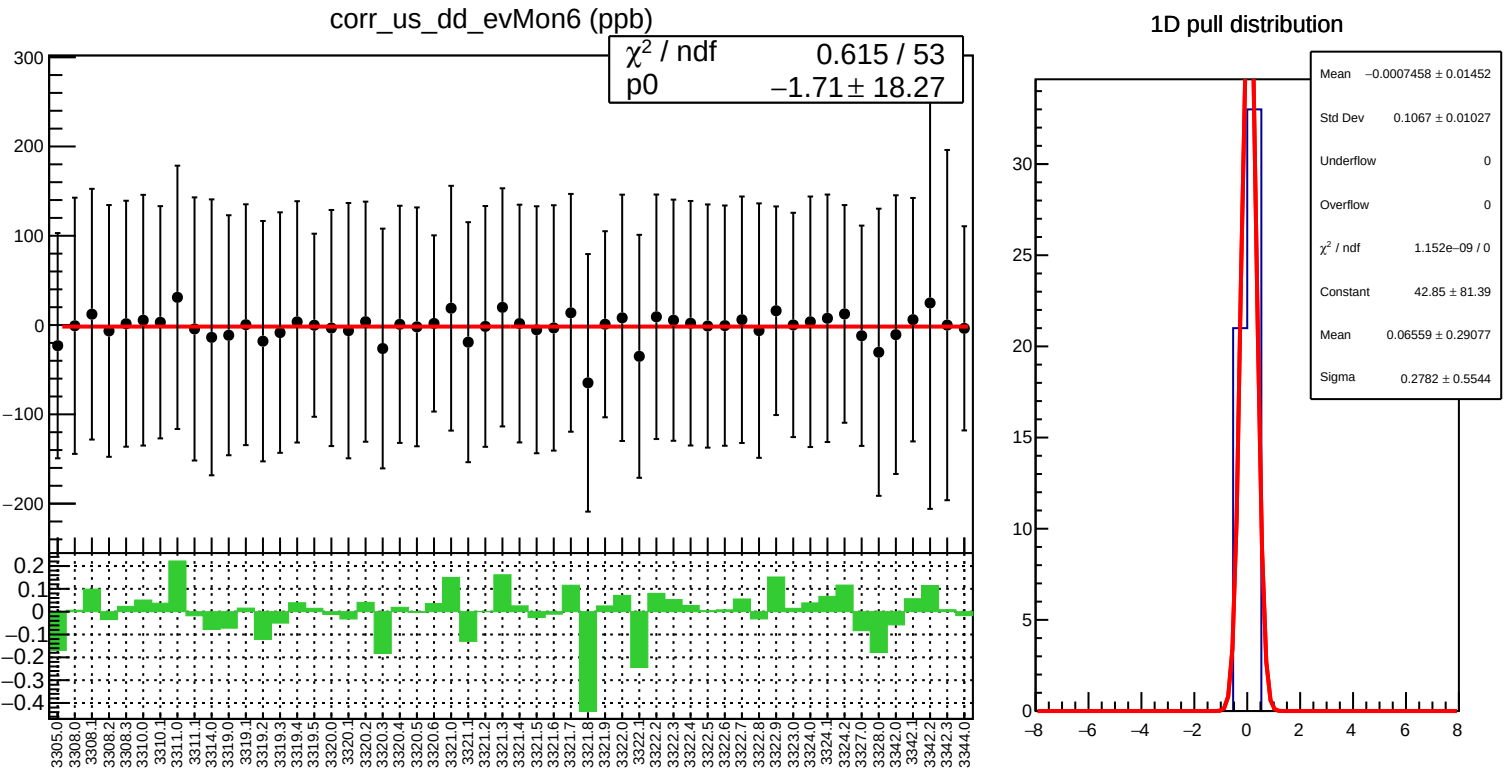

corr_us_dd_evMon3 RMS (ppm)
RMS (ppm)
180
160
140
120
100
80
60
40
20
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

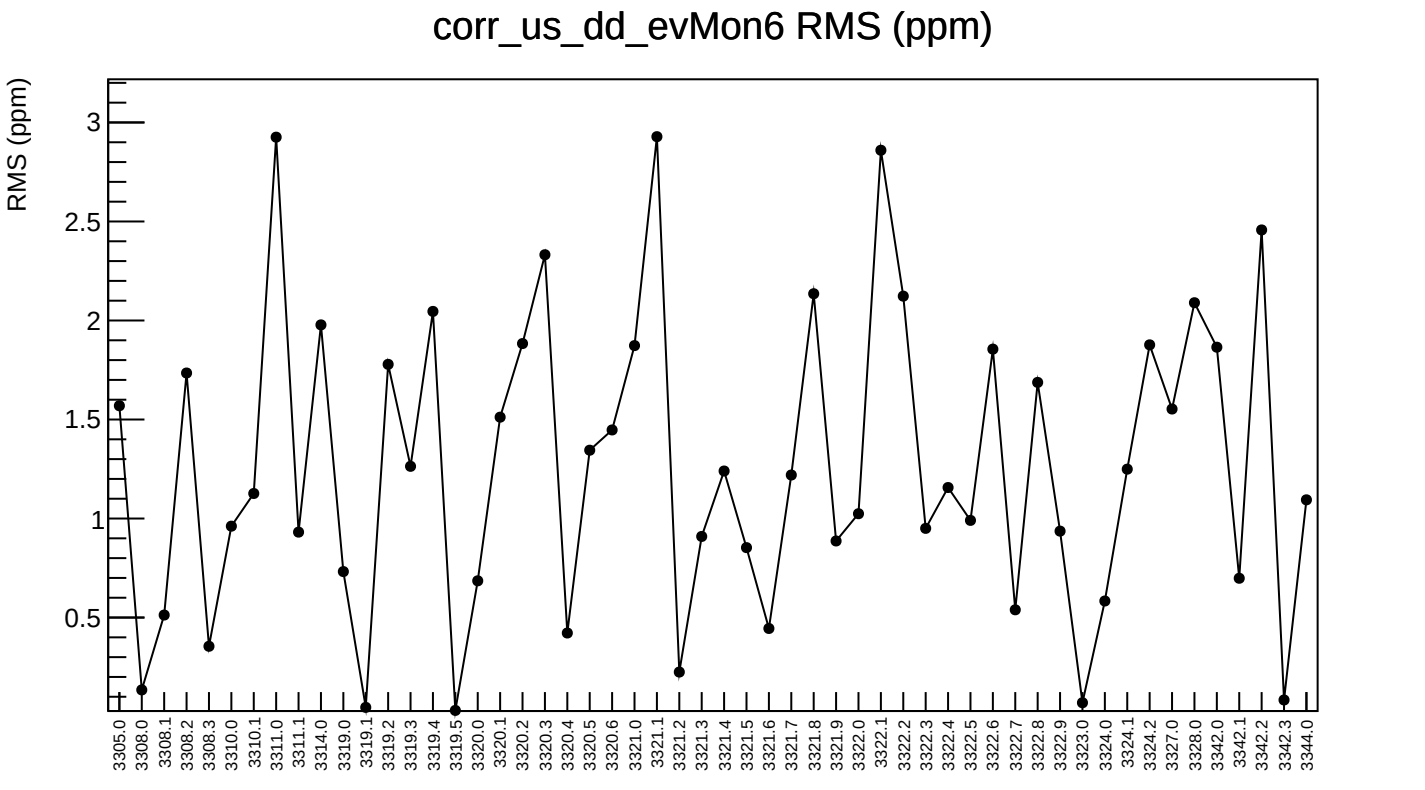

corr_us_dd_evMon4 (ppb)
χ² / ndf 173.6 / 53
p0 26.35 ± 21.38
1000
800
600
400
200
0
−200
−400
−600
−800
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0
1D pull distribution
Mean 0.01545 ± 0.244
Std Dev 1.793 ± 0.1725
Underflow 0
Overflow 0
χ² / ndf 14.85 / 12
Constant 4.561 ± 1.465
Mean −0.2949 ± 0.3700
Sigma 1.971 ± 0.728
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

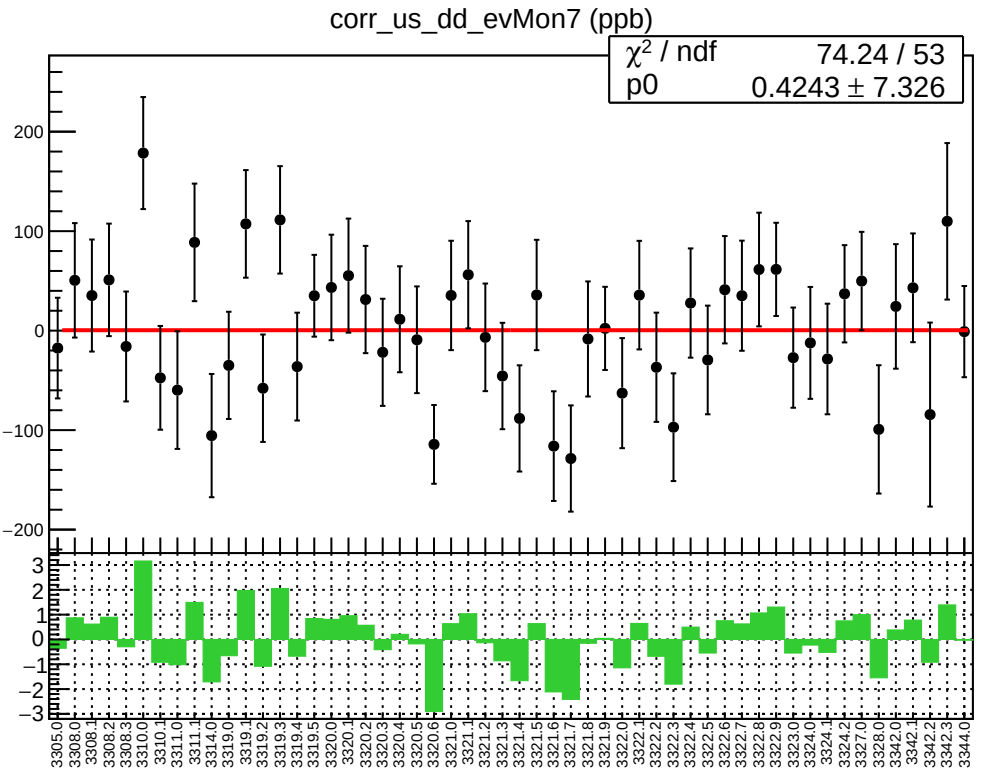

corr_us_dd_evMon4 RMS (ppm)
RMS (ppm)
40
35
30
25
20
15
10
5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

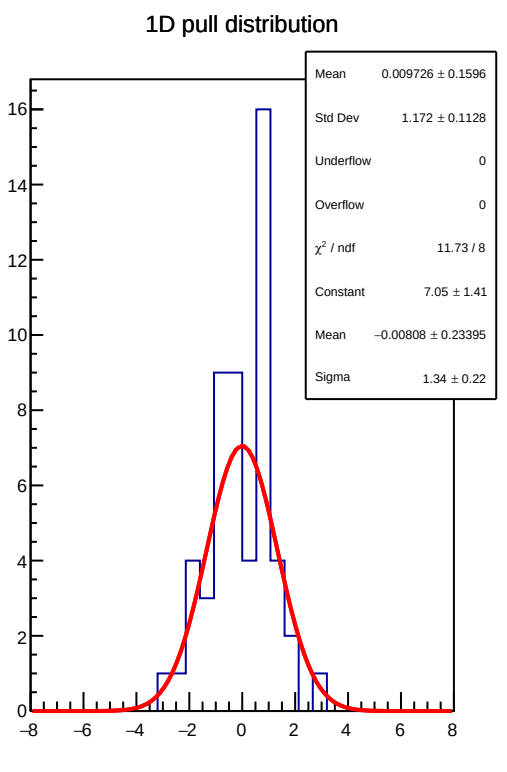

corr_us_dd_evMon5 (ppb)
χ² / ndf 1.497 / 53
p0 −0.05838 ± 6.752
1D pull distribution
Mean 0.0008484 ± 0.02266
Std Dev 0.1665 ± 0.01602
Underflow 0
Overflow 0
χ² / ndf 7.613e−12 / 0
Constant 40.69 ± 87.18
Mean 0.01205 ± 0.07697
Sigma 0.2945 ± 0.6661

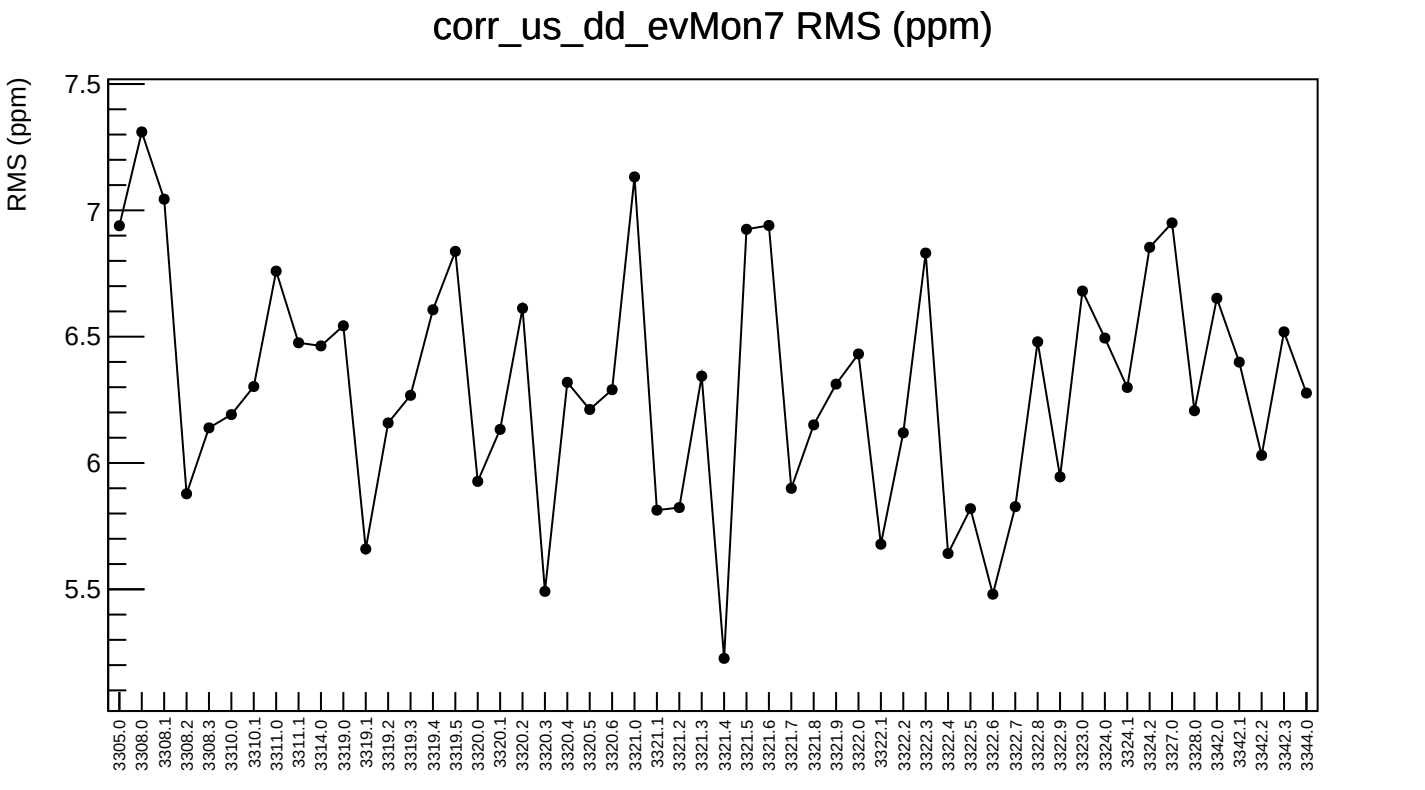

corr_us_dd_evMon5 RMS (ppm)
RMS (ppm)
2.5
2
1.5
1
0.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

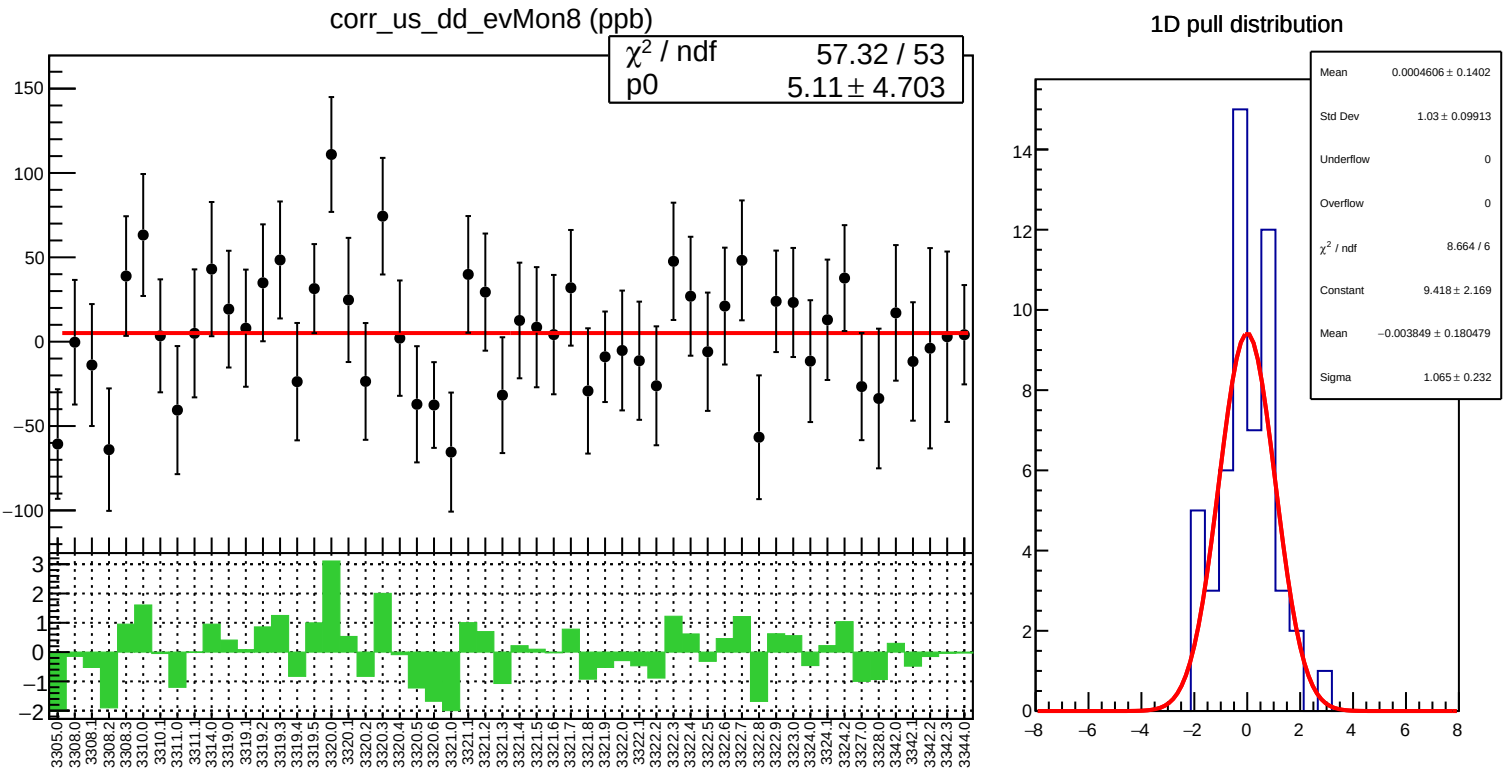

corr_us_dd_evMon6 (ppb)
χ² / ndf 0.615 / 53
p0 −1.71 ± 18.27
1D pull distribution
Mean −0.0007458 ± 0.01452
Std Dev 0.1067 ± 0.01027
Underflow 0
Overflow 0
χ² / ndf 1.152e−09 / 0
Constant 42.85 ± 81.39
Mean 0.06559 ± 0.29077
Sigma 0.2782 ± 0.5544

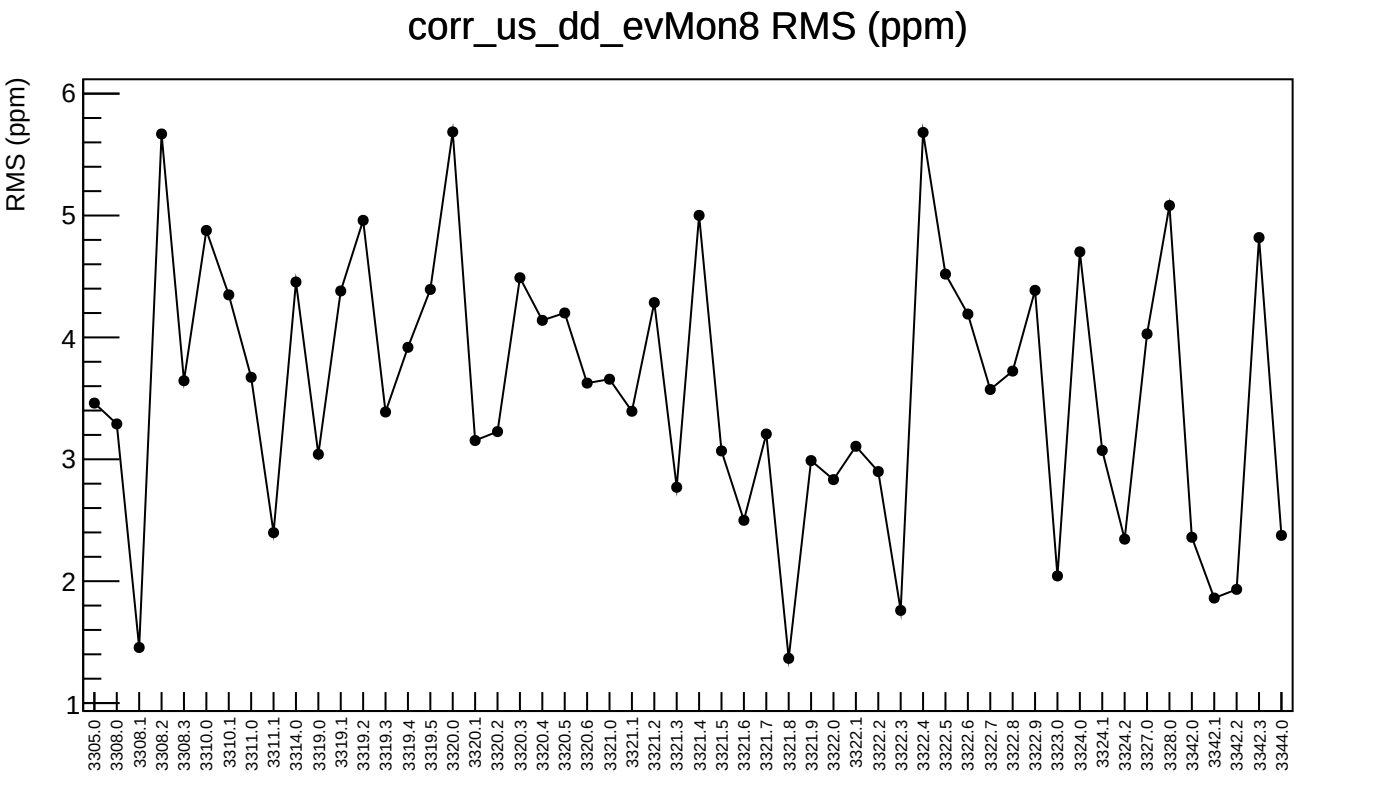

corr_us_dd_evMon6 RMS (ppm)
RMS (ppm)
3
2.5
2
1.5
1
0.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

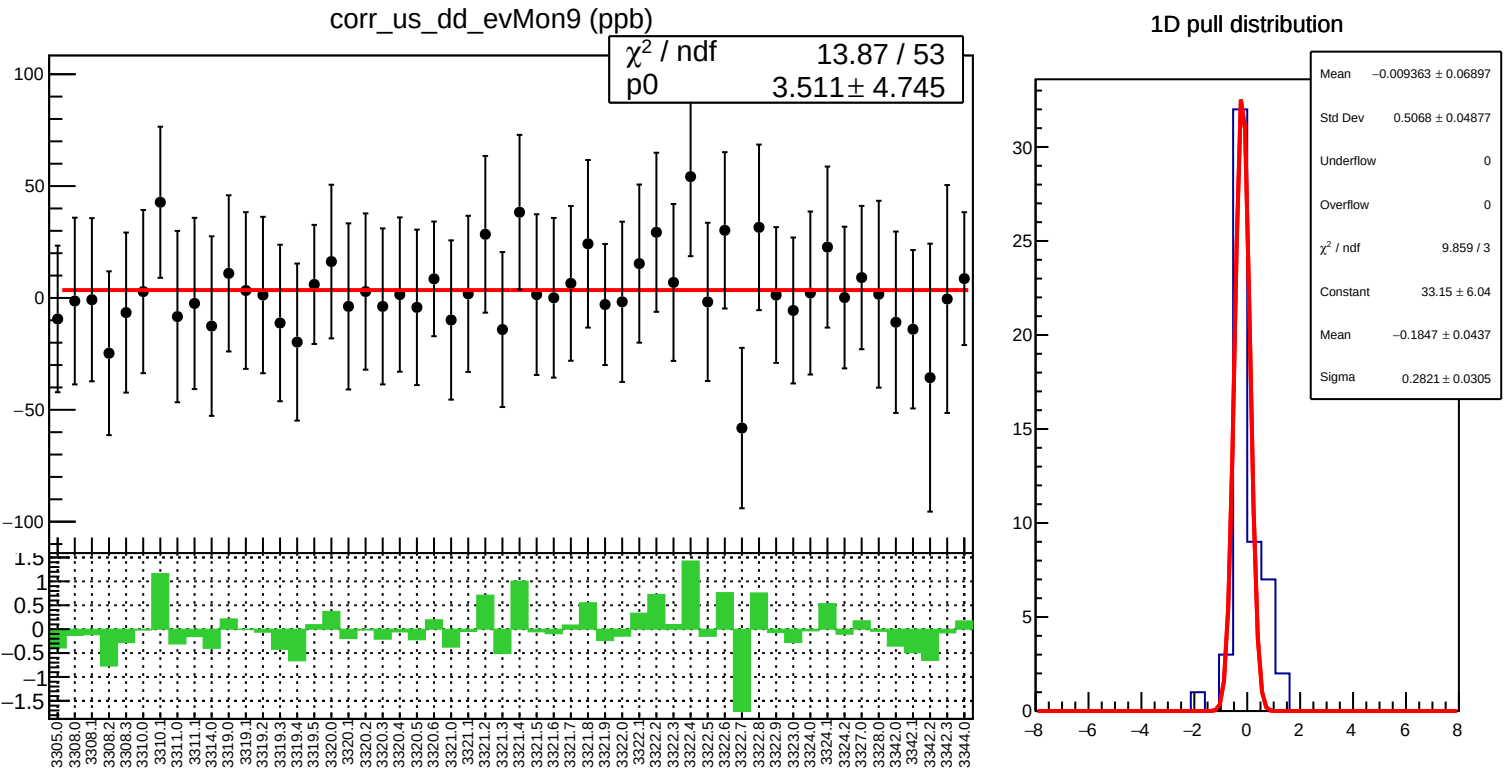

corr_us_dd_evMon7 (ppb)
χ² / ndf 74.24 / 53
p0 0.4243 ± 7.326
200
100
0
−100
−200
3
2
1
0
−1
−2
−3
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

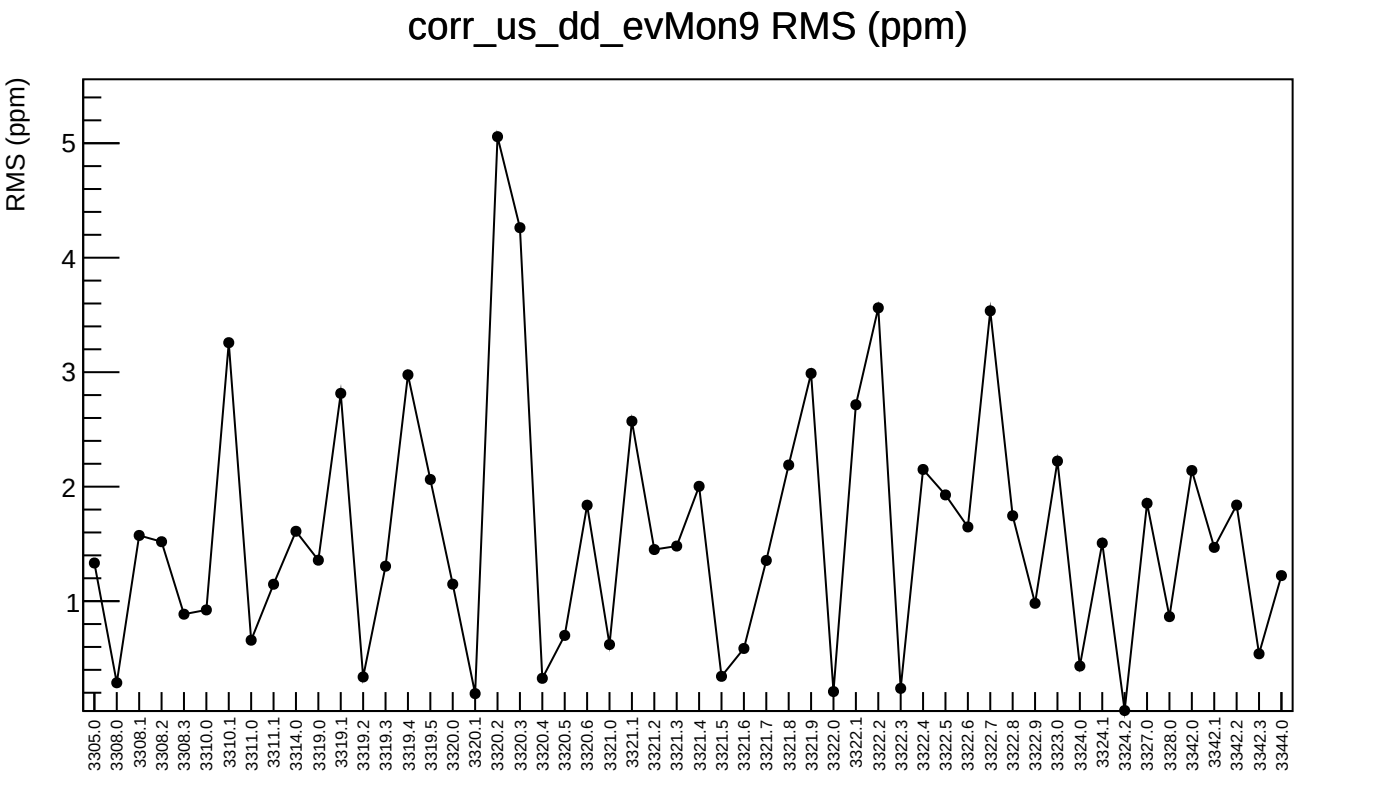

1D pull distribution
Mean 0.009726 ± 0.1596
Std Dev 1.172 ± 0.1128
Underflow 0
Overflow 0
χ² / ndf 11.73 / 8
Constant 7.05 ± 1.41
Mean −0.00808 ± 0.23395
Sigma 1.34 ± 0.22
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

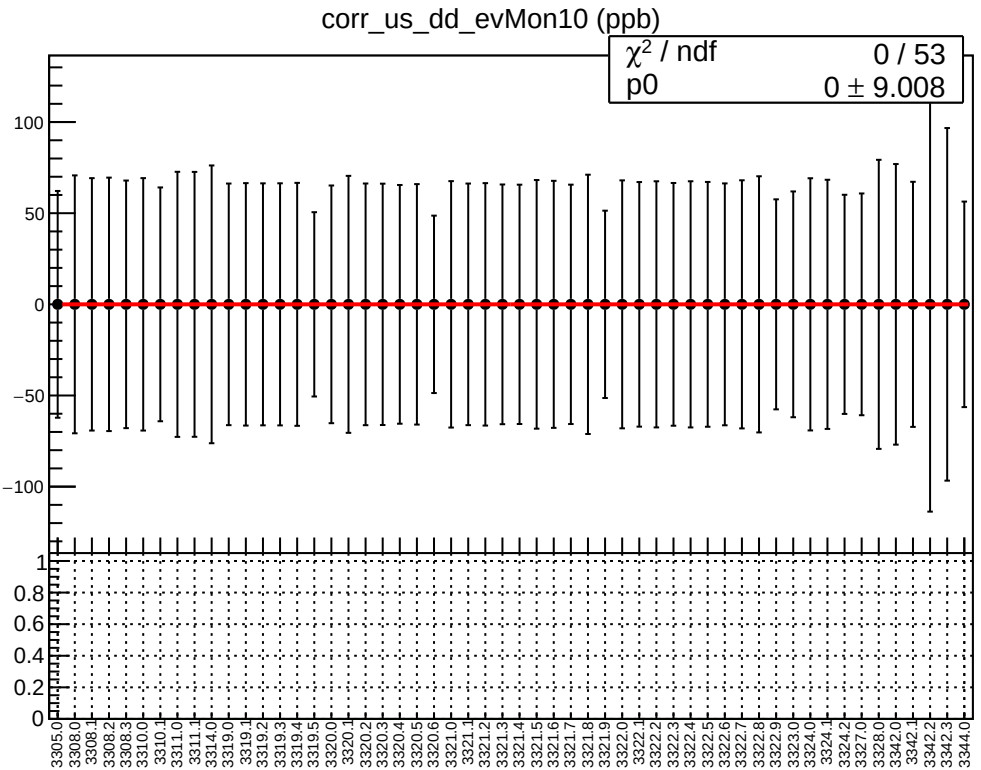

corr_us_dd_evMon7 RMS (ppm)
RMS (ppm)
7.5
7
6.5
6
5.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

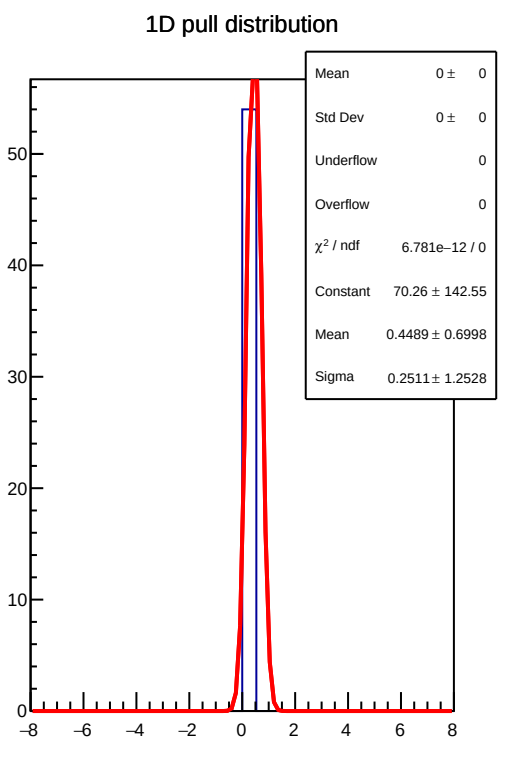

corr_us_dd_evMon8 (ppb)
χ² / ndf 57.32 / 53
p0 5.11 ± 4.703
1D pull distribution
Mean 0.0004606 ± 0.1402
Std Dev 1.03 ± 0.09913
Underflow 0
Overflow 0
χ² / ndf 8.664 / 6
Constant 9.418 ± 2.169
Mean −0.003849 ± 0.180479
Sigma 1.065 ± 0.232

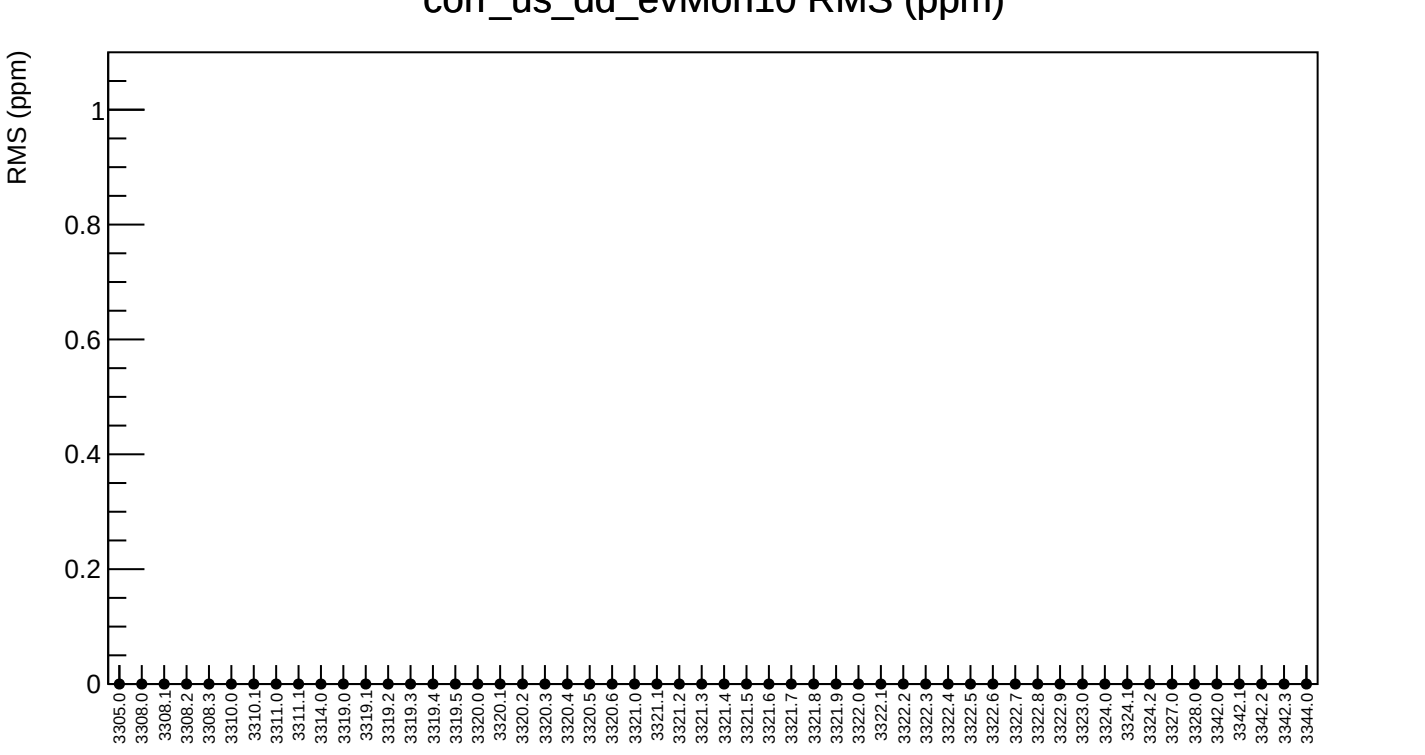

corr_us_dd_evMon8 RMS (ppm)
RMS (ppm)
6
5
4
3
2
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

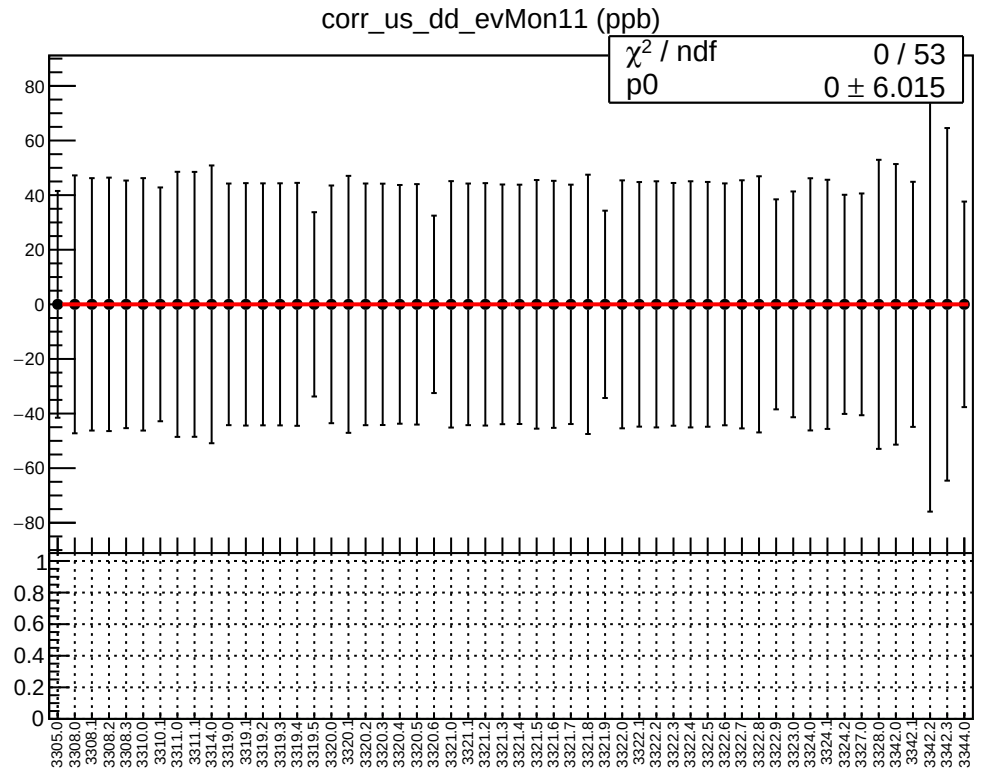

corr_us_dd_evMon9 (ppb)
χ² / ndf 13.87 / 53
p0 3.511 ± 4.745
1D pull distribution
Mean −0.009363 ± 0.06897
Std Dev 0.5068 ± 0.04877
Underflow 0
Overflow 0
χ² / ndf 9.859 / 3
Constant 33.15 ± 6.04
Mean −0.1847 ± 0.0437
Sigma 0.2821 ± 0.0305

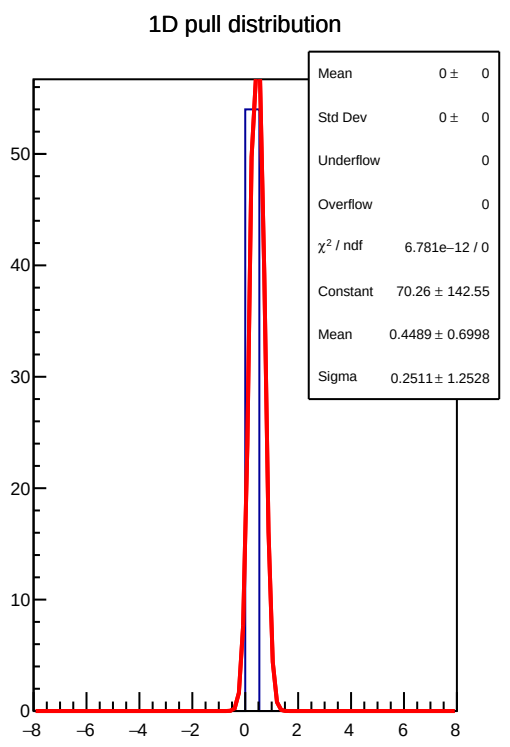

corr_us_dd_evMon9 RMS (ppm)
RMS (ppm)
1
2
3
4
5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

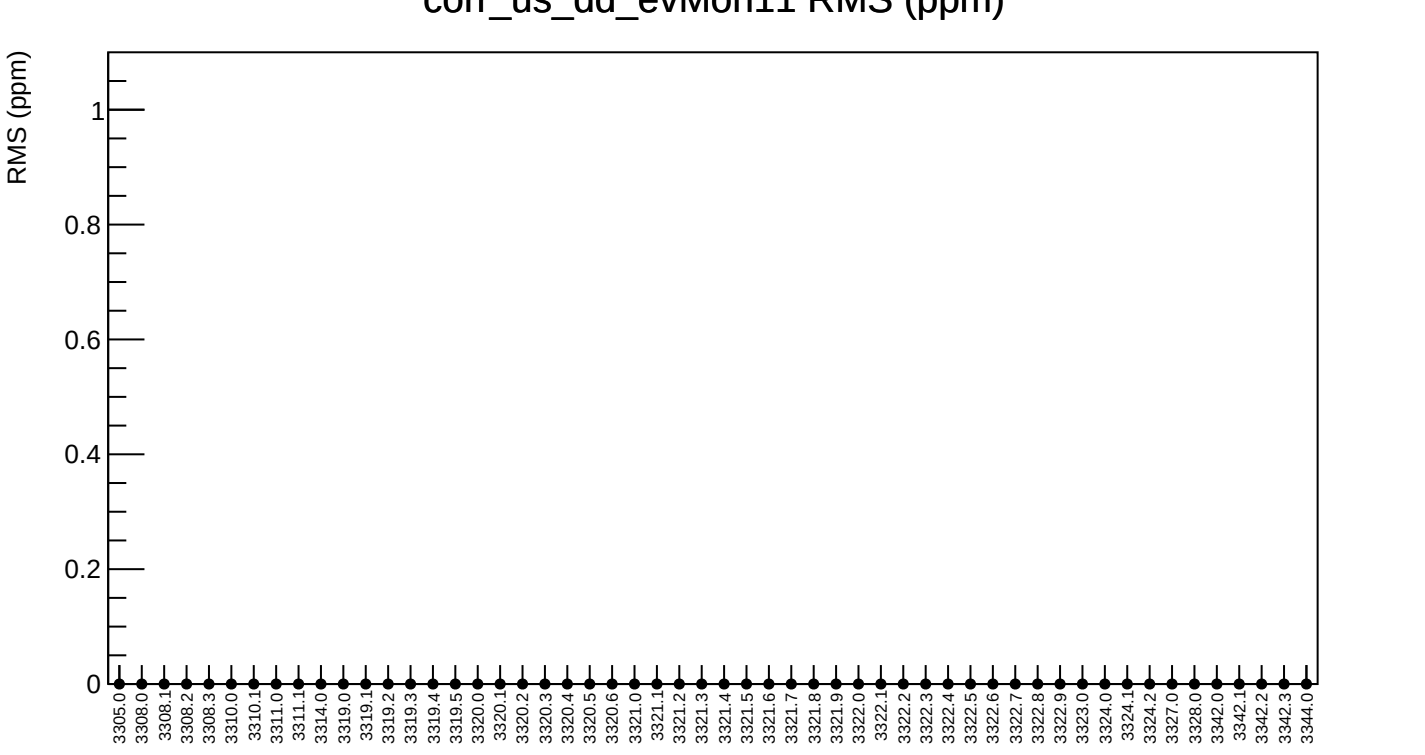

corr_us_dd_evMon10 (ppb)
χ² / ndf 0 / 53
p0 0 ± 9.008
100
50
0
−50
−100
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

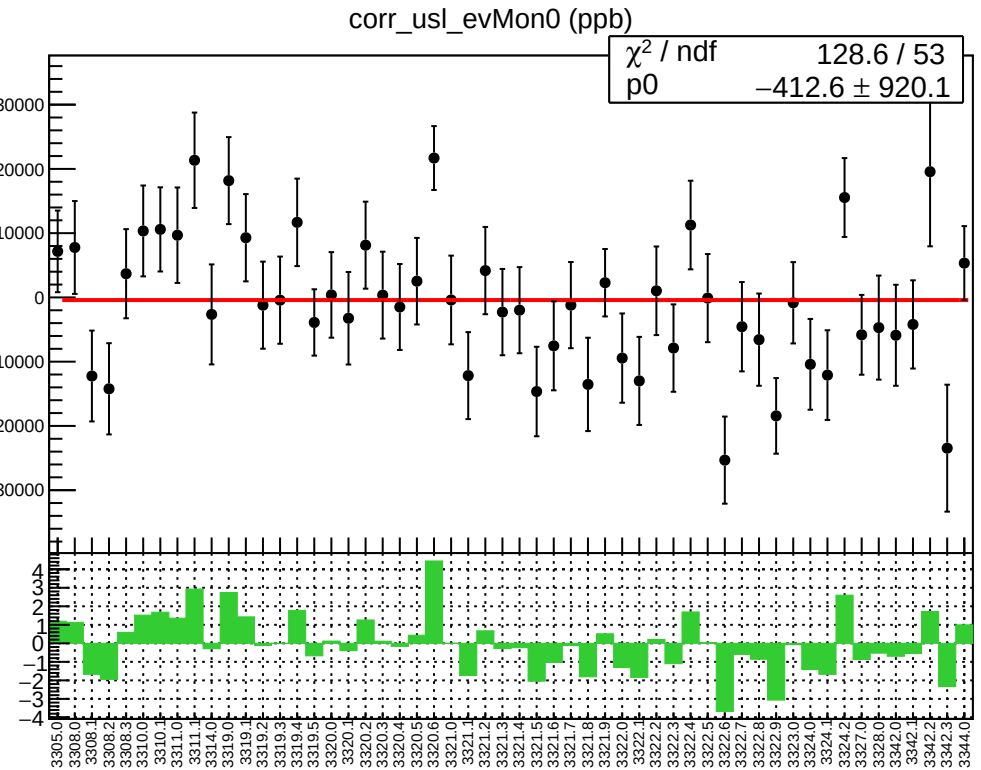

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

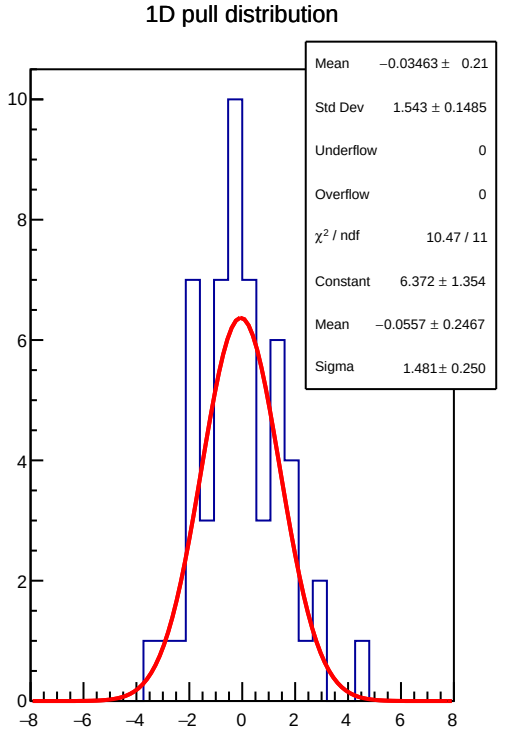

corr_us_dd_evMon10 RMS (ppm)
RMS (ppm)
0
0.2
0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

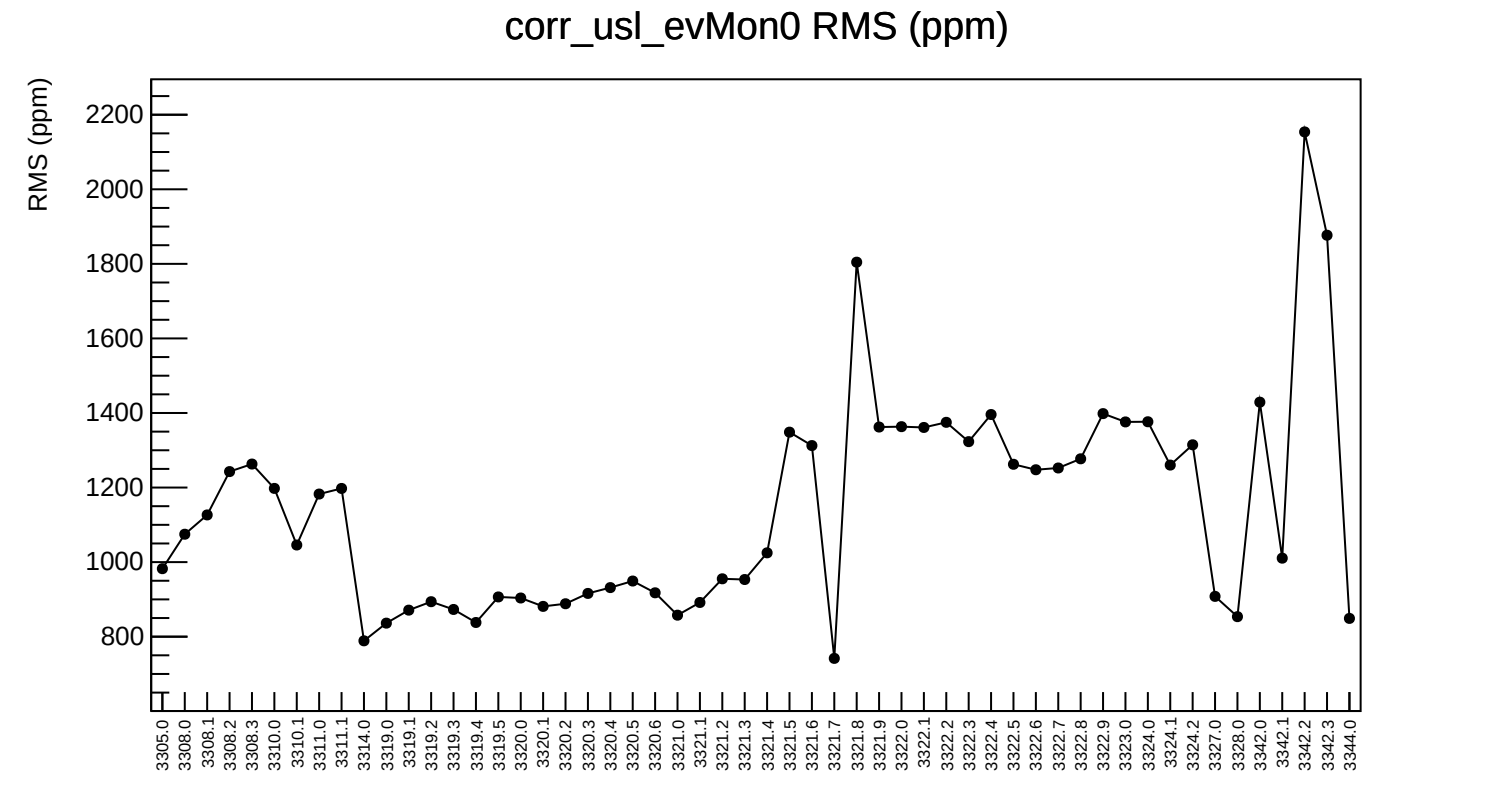

corr_us_dd_evMon11 (ppb)
χ² / ndf 0 / 53
p0 0 ± 6.015

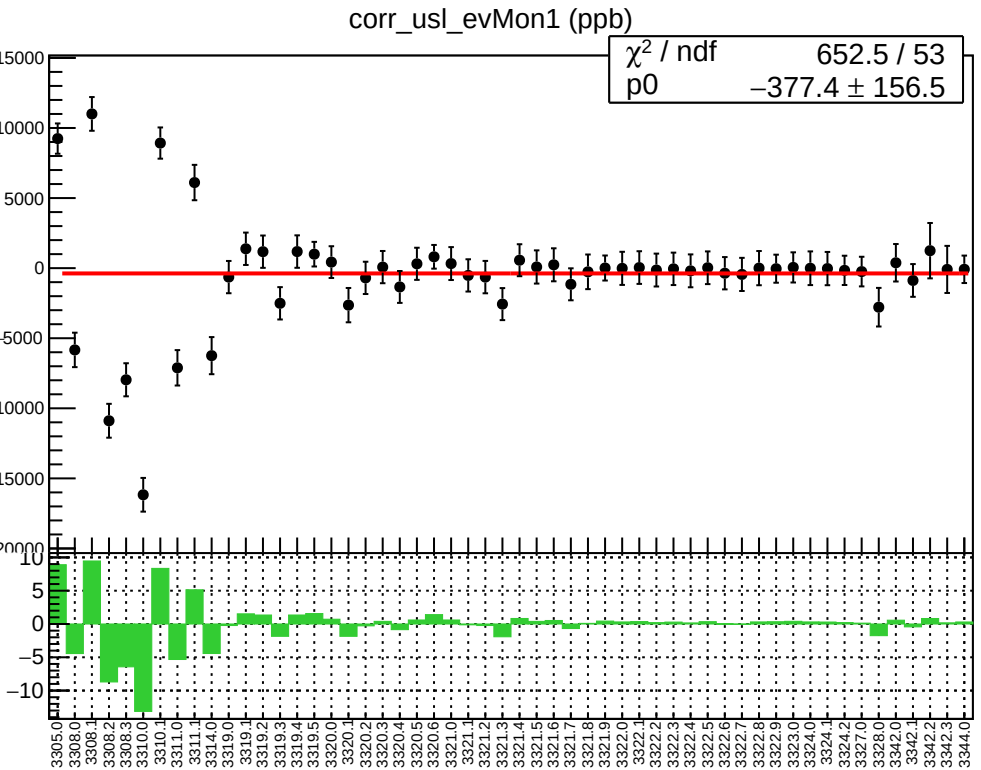

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528

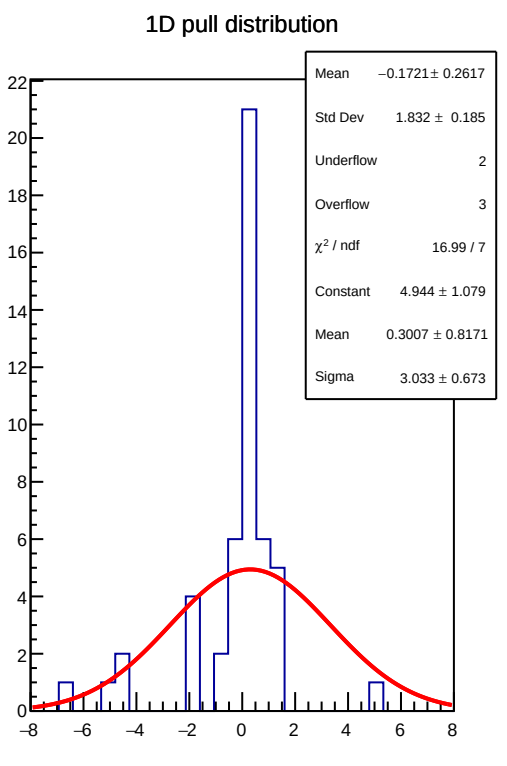

corr_us_dd_evMon11 RMS (ppm)
RMS (ppm)
0
0.2
0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

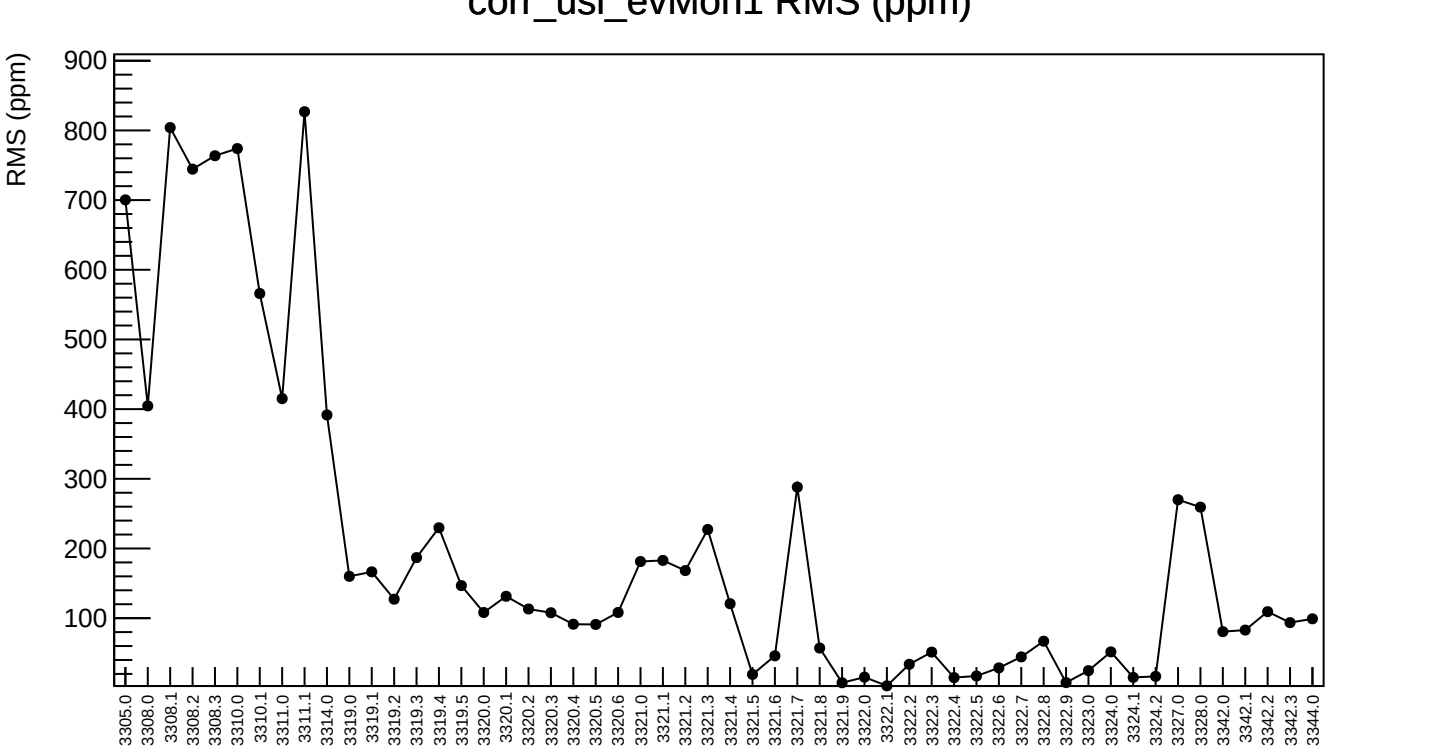

corr_usl_evMon0 (ppb)
χ² / ndf 128.6 / 53
p0 −412.6 ± 920.1
30000
20000
10000
0
−10000
−20000
−30000
4
3
2
1
0
−1
−2
−3
−4
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

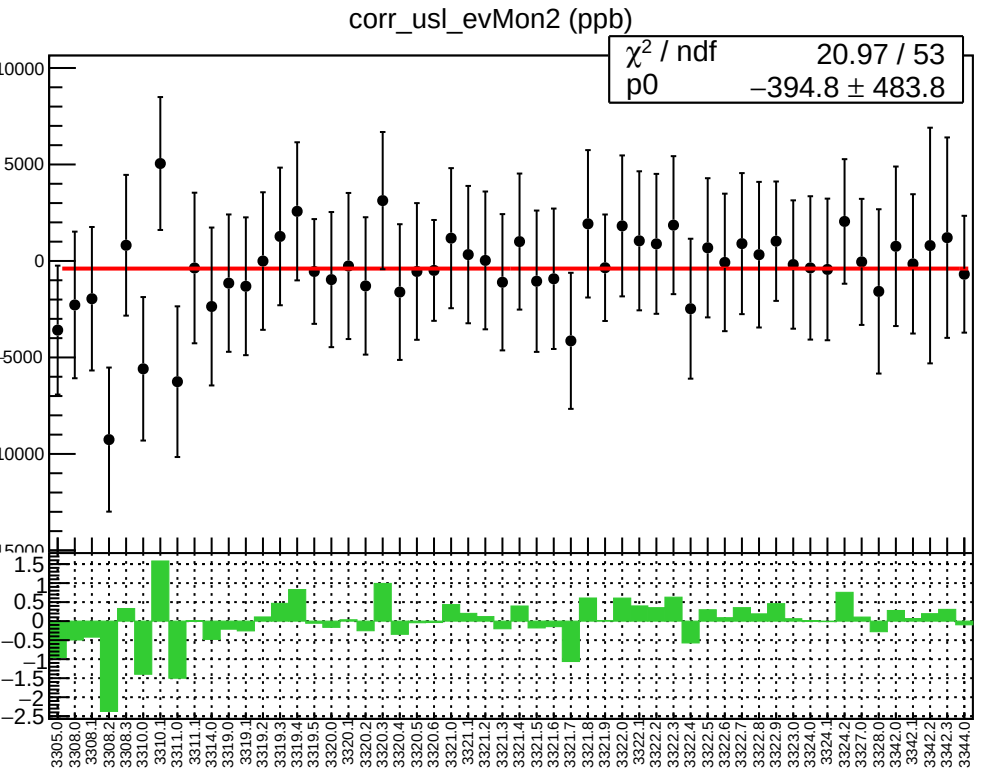

1D pull distribution
Mean −0.03463 ± 0.21
Std Dev 1.543 ± 0.1485
Underflow 0
Overflow 0
χ² / ndf 10.47 / 11
Constant 6.372 ± 1.354
Mean −0.0557 ± 0.2467
Sigma 1.481 ± 0.250
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

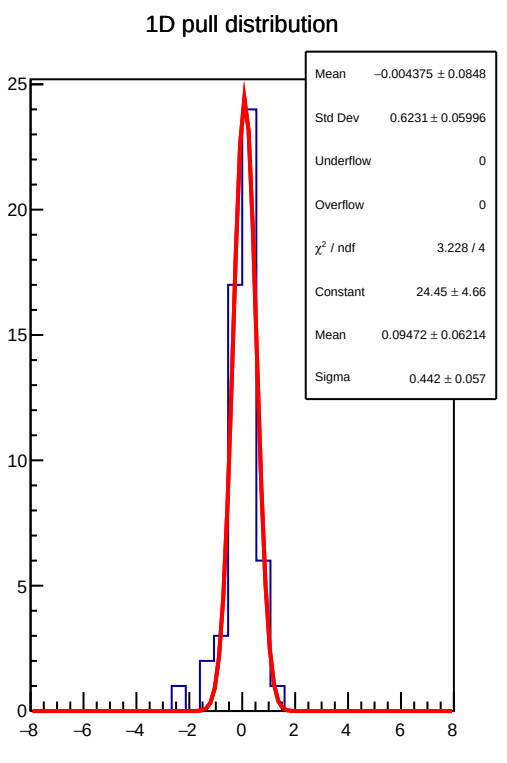

corr_usl_evMon0 RMS (ppm)
RMS (ppm)
2200
2000
1800
1600
1400
1200
1000
800
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

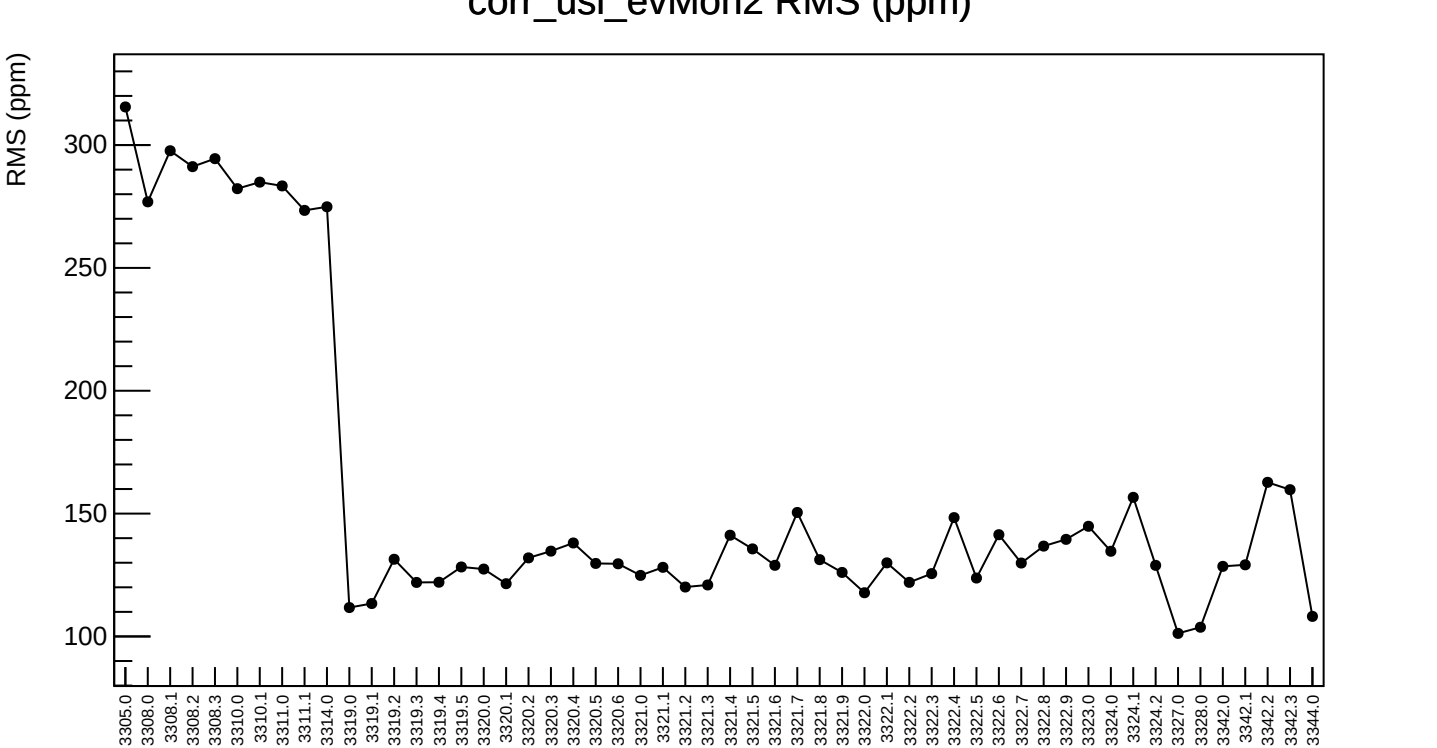

corr_usl_evMon1 (ppb)
χ² / ndf 652.5 / 53
p0 −377.4 ± 156.5
15000
10000
5000
0
−5000
−10000
−15000
10
5
0
−5
−10
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

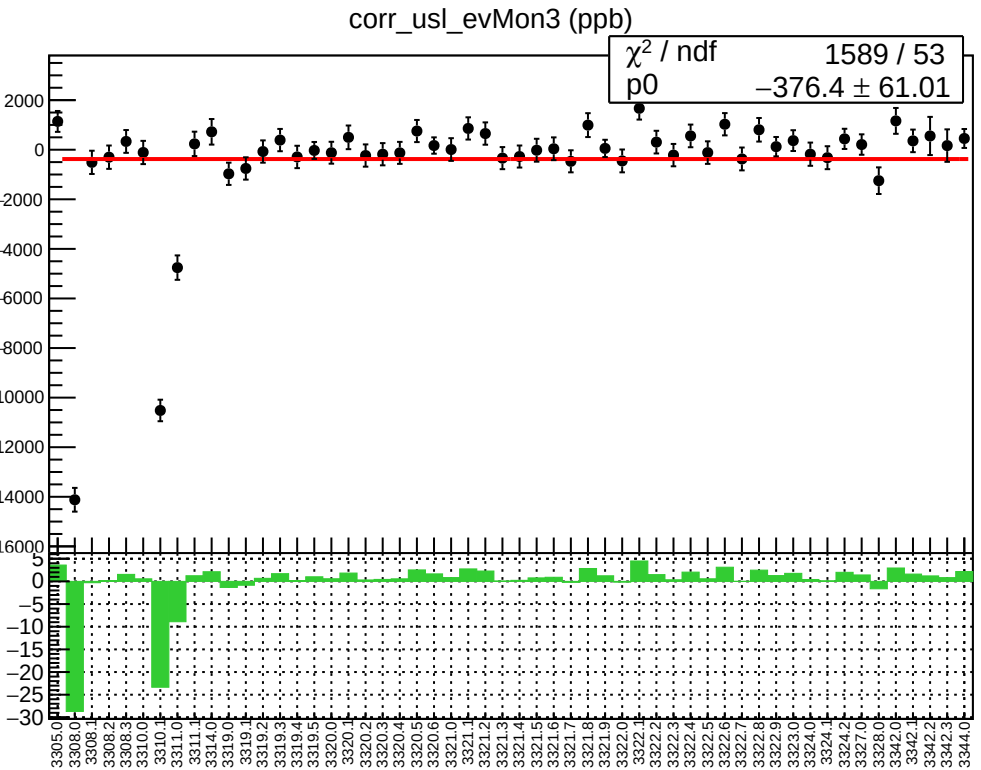

1D pull distribution
Mean −0.1721± 0.2617
Std Dev 1.832 ± 0.185
Underflow 2
Overflow 3
χ² / ndf 16.99 / 7
Constant 4.944 ± 1.079
Mean 0.3007 ± 0.8171
Sigma 3.033 ± 0.673
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

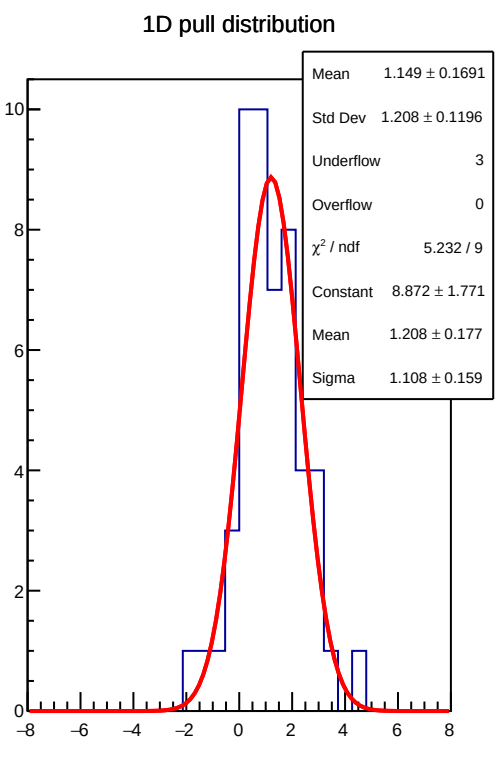

corr_usl_evMon1 RMS (ppm)
RMS (ppm)
900
800
700
600
500
400
300
200
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

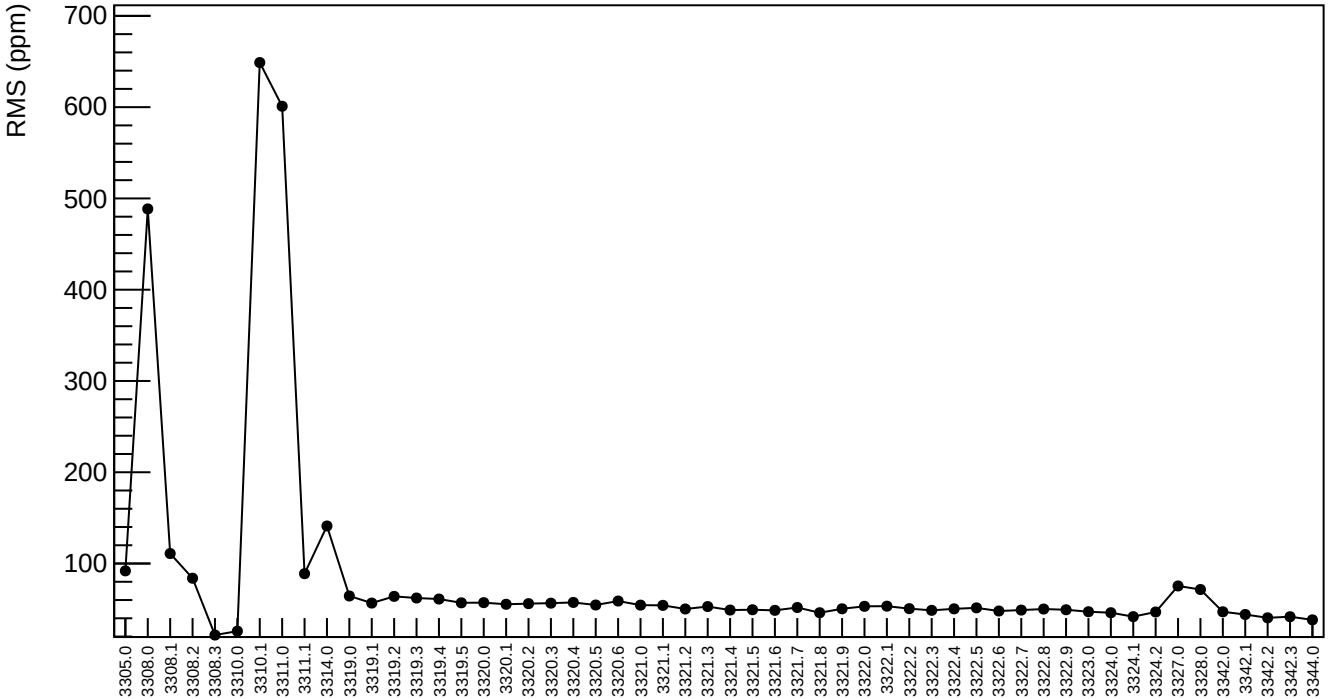

corr_usl_evMon2 (ppb)
χ² / ndf 20.97 / 53
p0 −394.8 ± 483.8
10000
5000
0
−5000
−10000
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

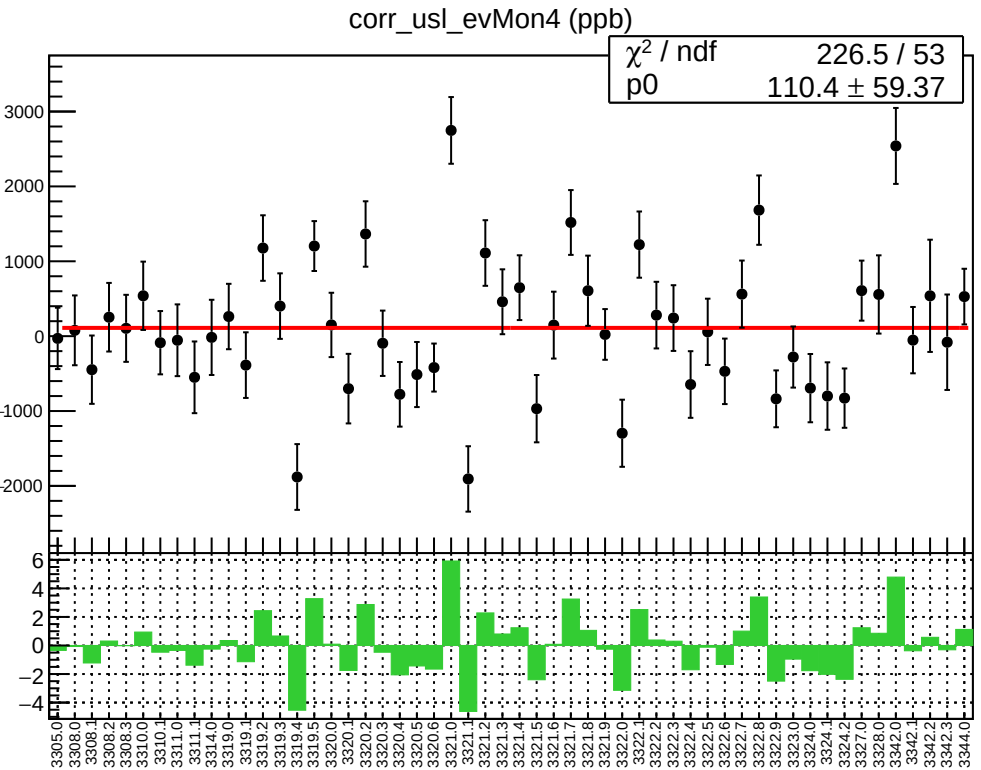

1D pull distribution
Mean −0.004375 ± 0.0848
Std Dev 0.6231 ± 0.05996
Underflow 0
Overflow 0
χ² / ndf 3.228 / 4
Constant 24.45 ± 4.66
Mean 0.09472 ± 0.06214
Sigma 0.442 ± 0.057
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

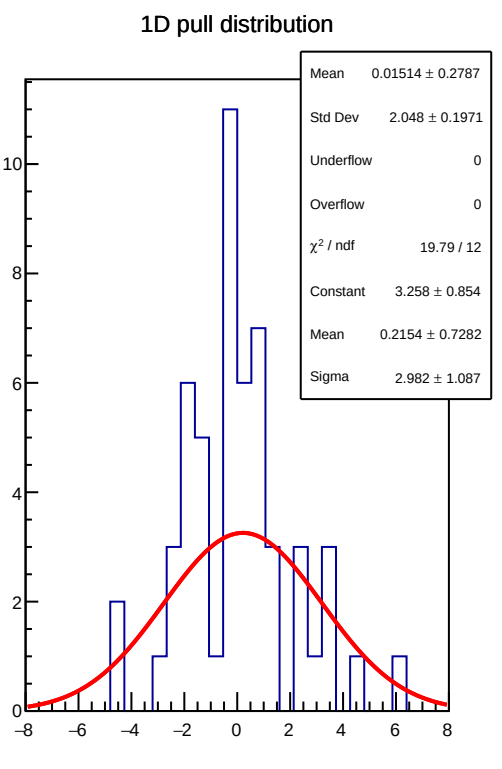

corr_usl_evMon2 RMS (ppm)
RMS (ppm)
300
250
200
150
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

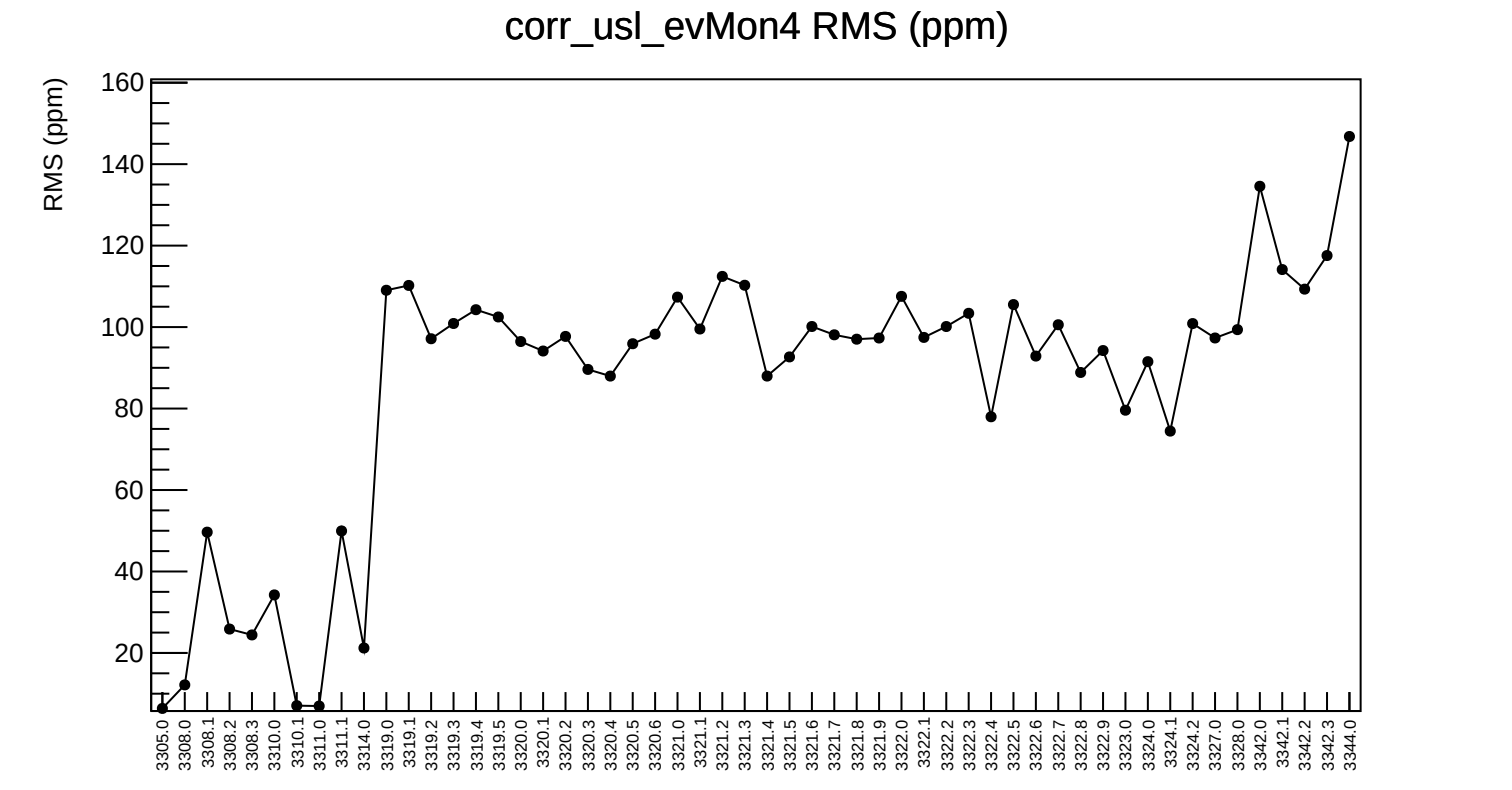

corr_usl_evMon3 (ppb)
χ² / ndf 1589 / 53
p0 −376.4 ± 61.01
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
−16000
5
0
−5
−10
−15
−20
−25
−30
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

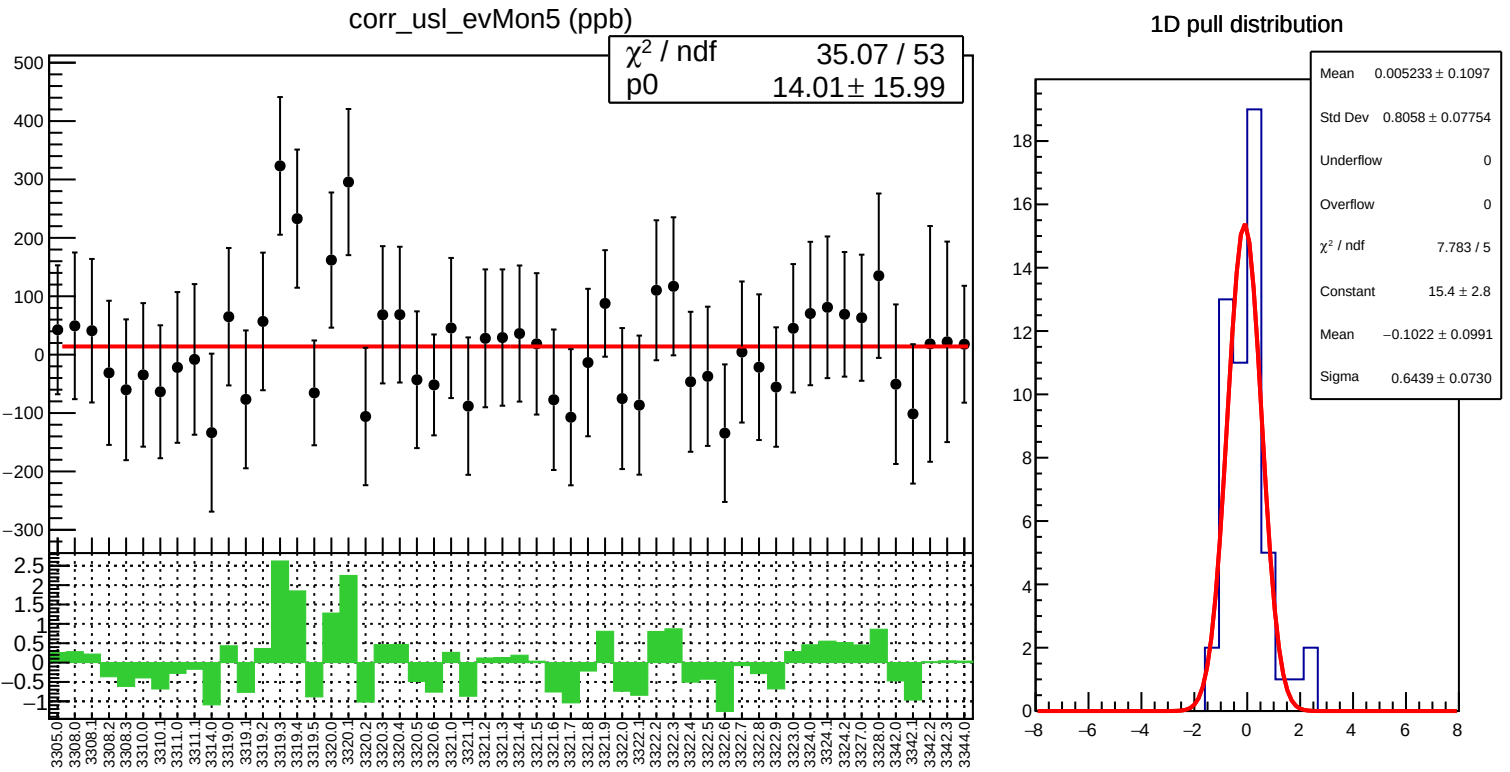

1D pull distribution
Mean 1.149 ± 0.1691
Std Dev 1.208 ± 0.1196
Underflow 3
Overflow 0
χ² / ndf 5.232 / 9
Constant 8.872 ± 1.771
Mean 1.208 ± 0.177
Sigma 1.108 ± 0.159
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

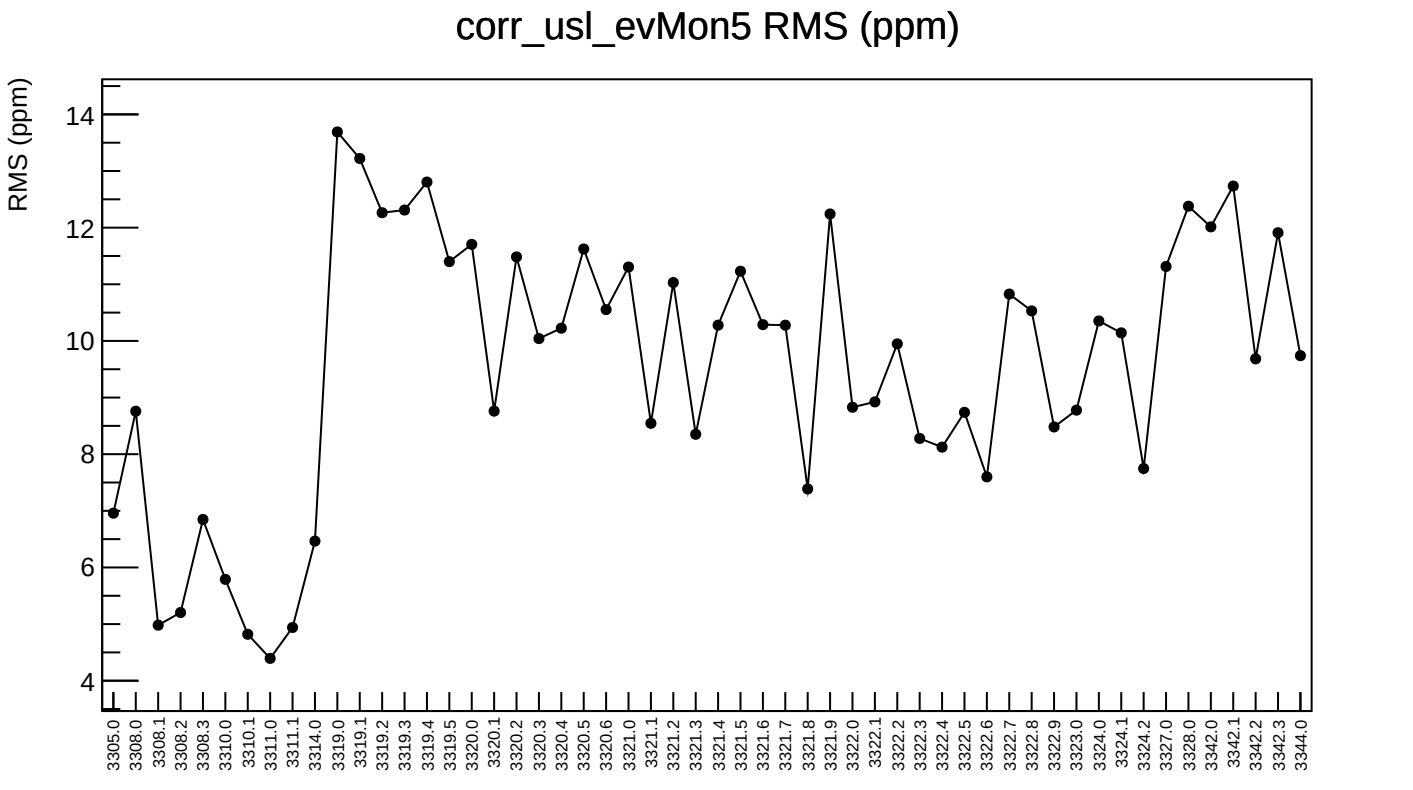

corr_usl_evMon3 RMS (ppm)
RMS (ppm)
700
600
500
400
300
200
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

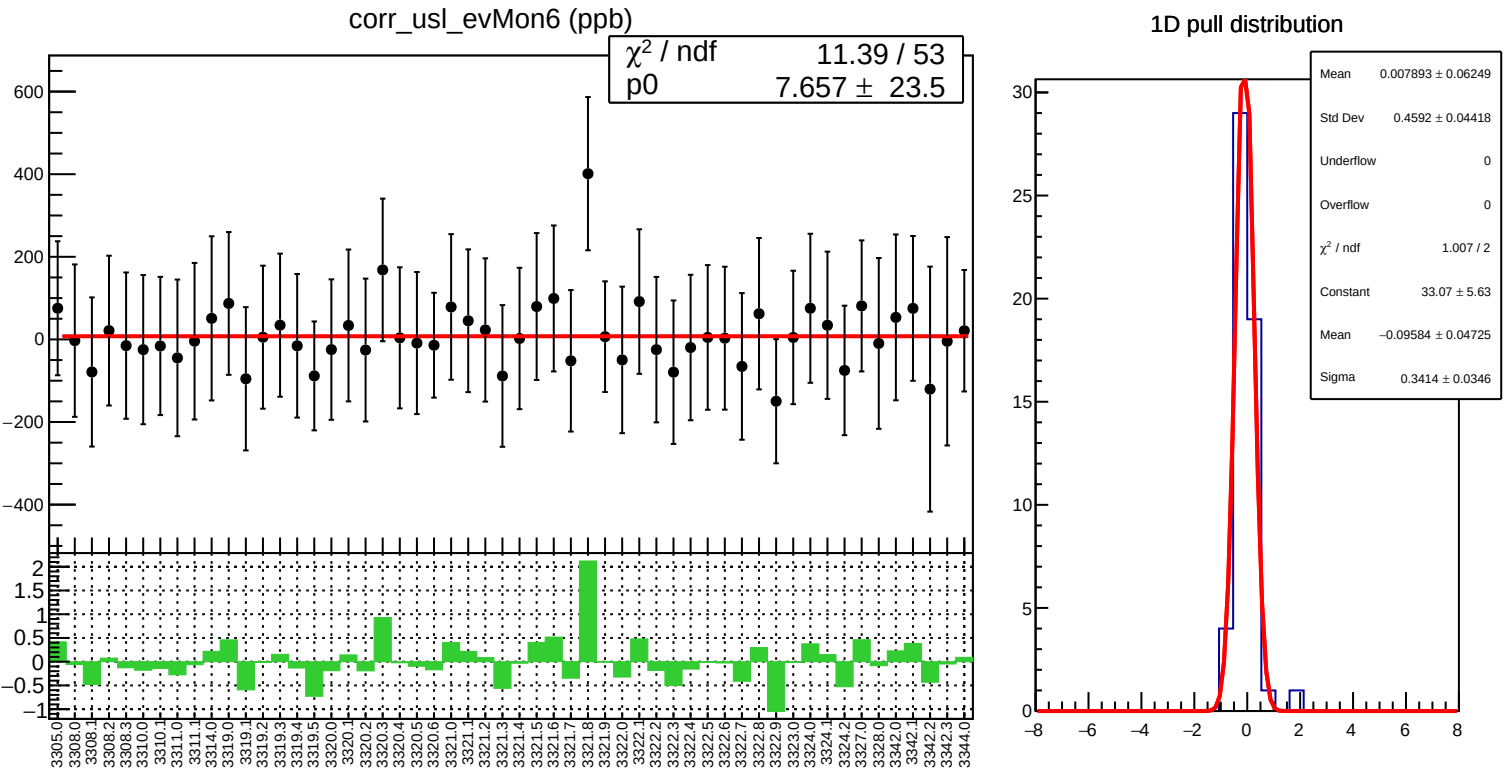

corr_usl_evMon4 (ppb)
χ² / ndf 226.5 / 53
p0 110.4 ± 59.37
3000
2000
1000
0
-1000
-2000
6
4
2
0
−2
−4
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

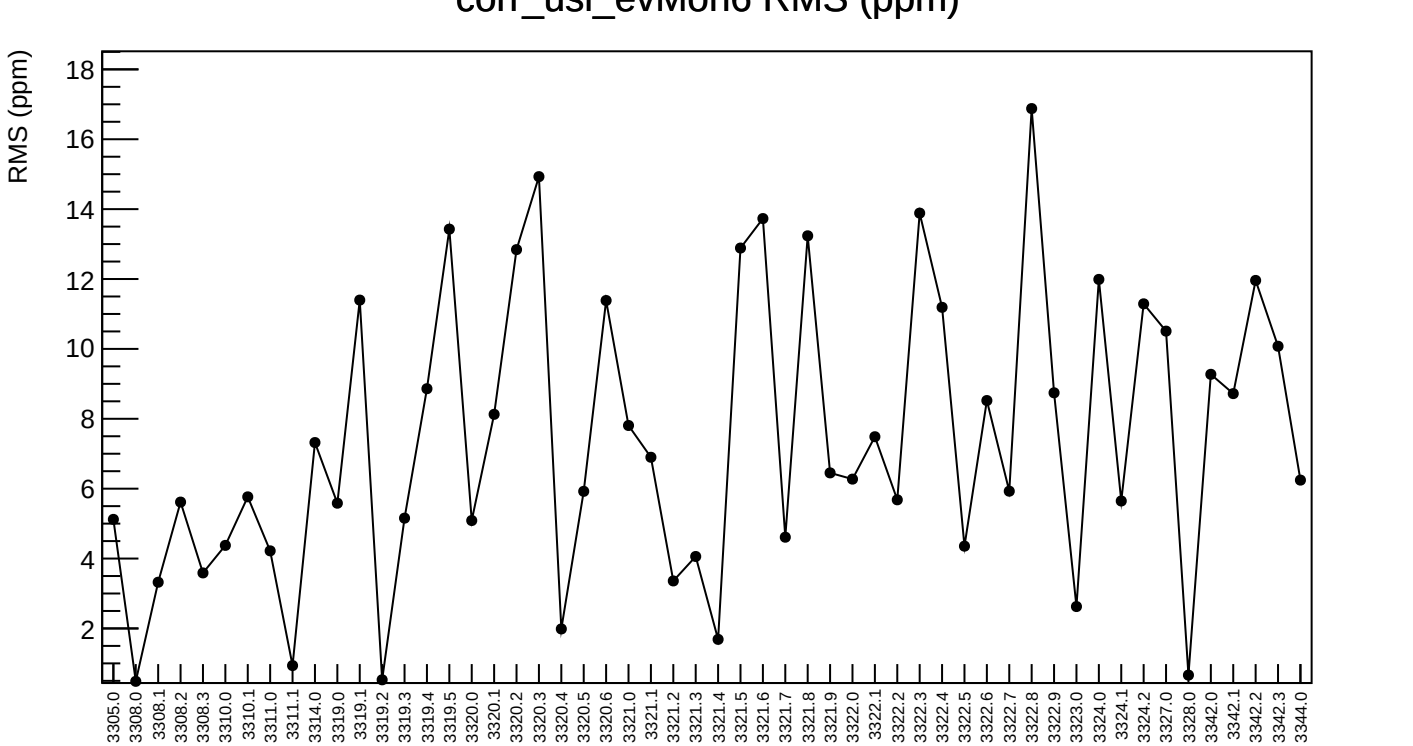

1D pull distribution
Mean 0.01514 ± 0.2787
Std Dev 2.048 ± 0.1971
Underflow 0
Overflow 0
χ² / ndf 19.79 / 12
Constant 3.258 ± 0.854
Mean 0.2154 ± 0.7282
Sigma 2.982 ± 1.087
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

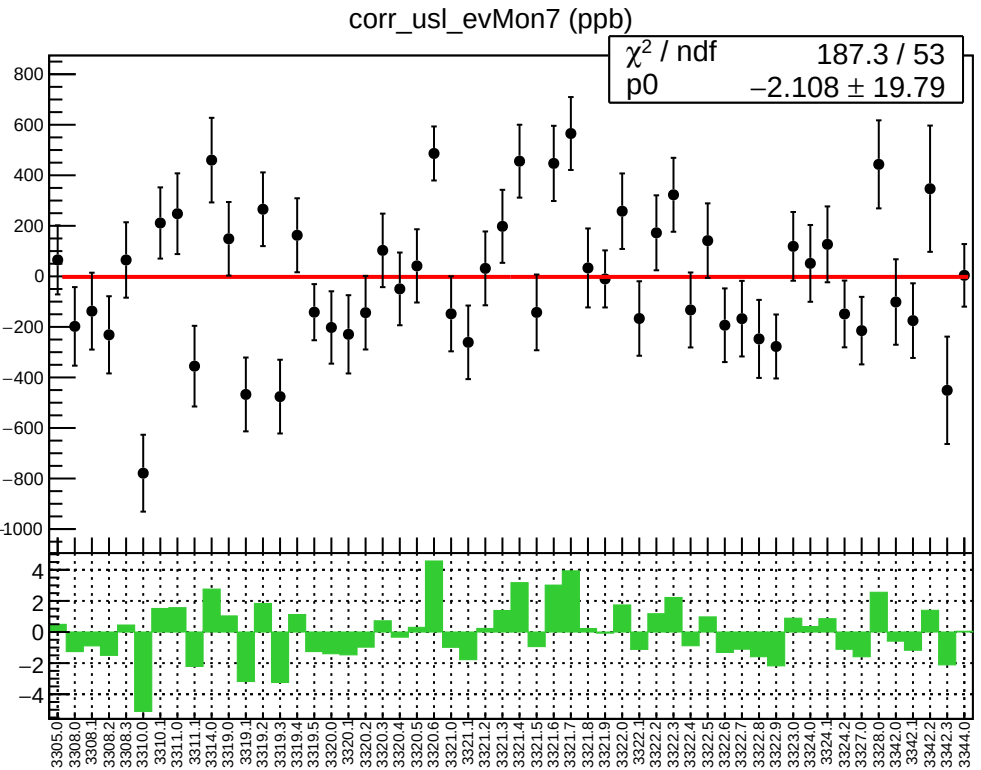

corr_usl_evMon4 RMS (ppm)
RMS (ppm)
160
140
120
100
80
60
40
20
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

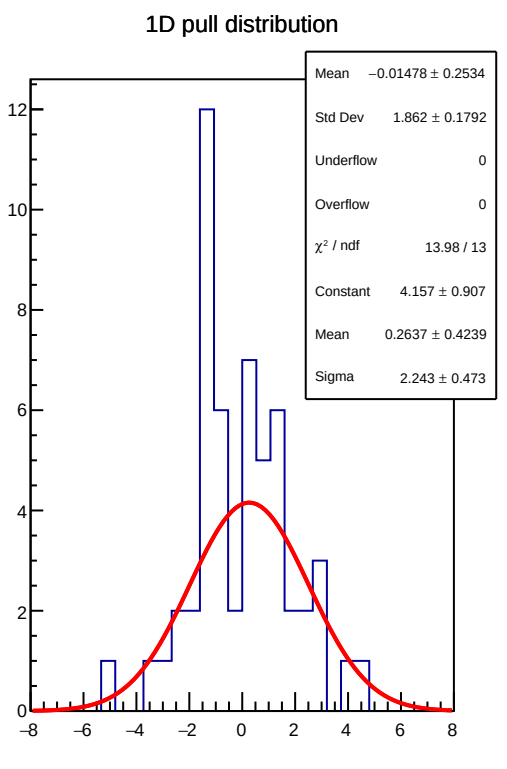

corr_usl_evMon5 (ppb)
χ² / ndf 35.07 / 53
p0 14.01 ± 15.99
1D pull distribution
Mean 0.005233 ± 0.1097
Std Dev 0.8058 ± 0.07754
Underflow 0
Overflow 0
χ² / ndf 7.783 / 5
Constant 15.4 ± 2.8
Mean −0.1022 ± 0.0991
Sigma 0.6439 ± 0.0730

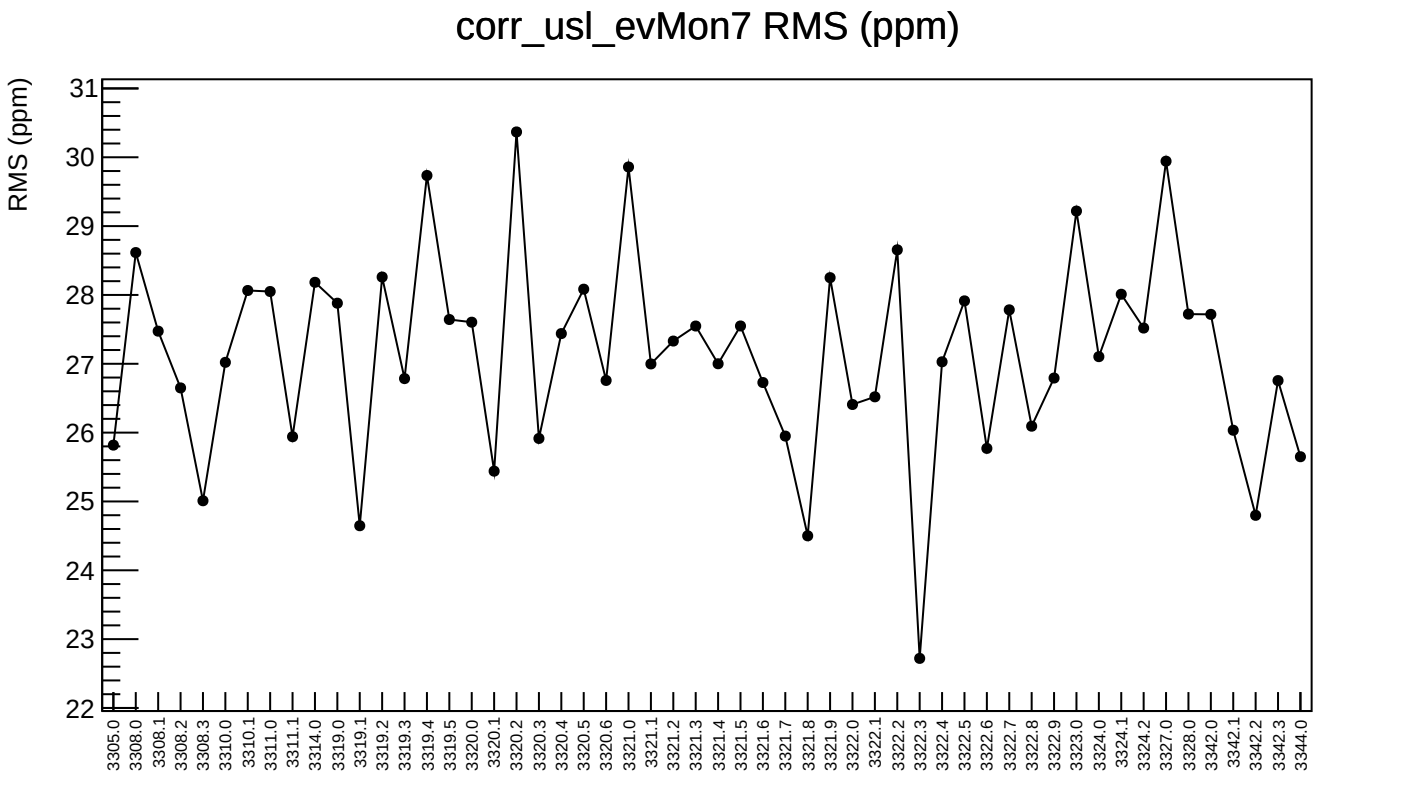

corr_usl_evMon5 RMS (ppm)
RMS (ppm)
14
12
10
8
6
4
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

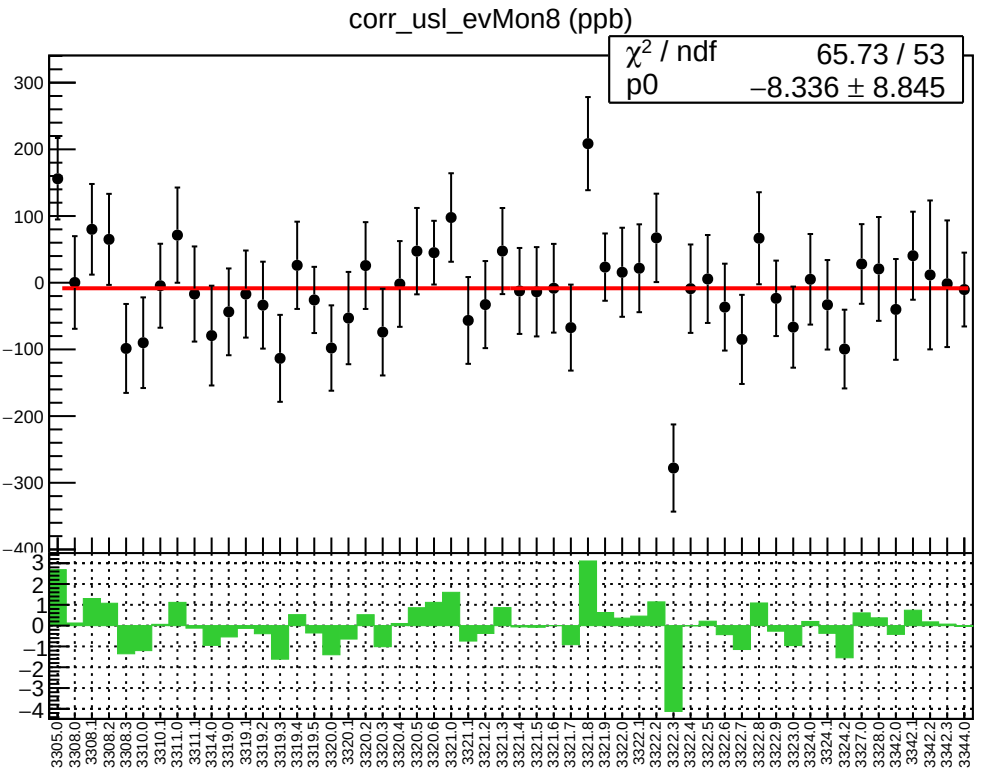

corr_usl_evMon6 (ppb)
χ² / ndf 11.39 / 53
p0 7.657 ± 23.5
1D pull distribution
Mean 0.007893 ± 0.06249
Std Dev 0.4592 ± 0.04418
Underflow 0
Overflow 0
χ² / ndf 1.007 / 2
Constant 33.07 ± 5.63
Mean −0.09584 ± 0.04725
Sigma 0.3414 ± 0.0346

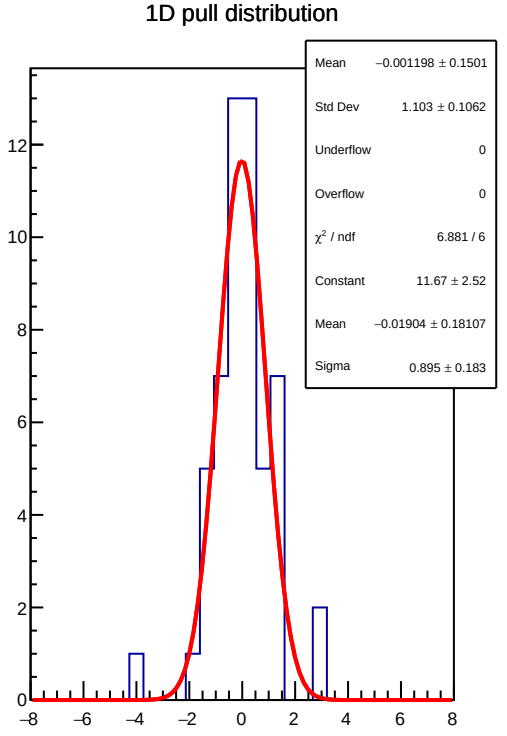

corr_usl_evMon6 RMS (ppm)
RMS (ppm)
18
16
14
12
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

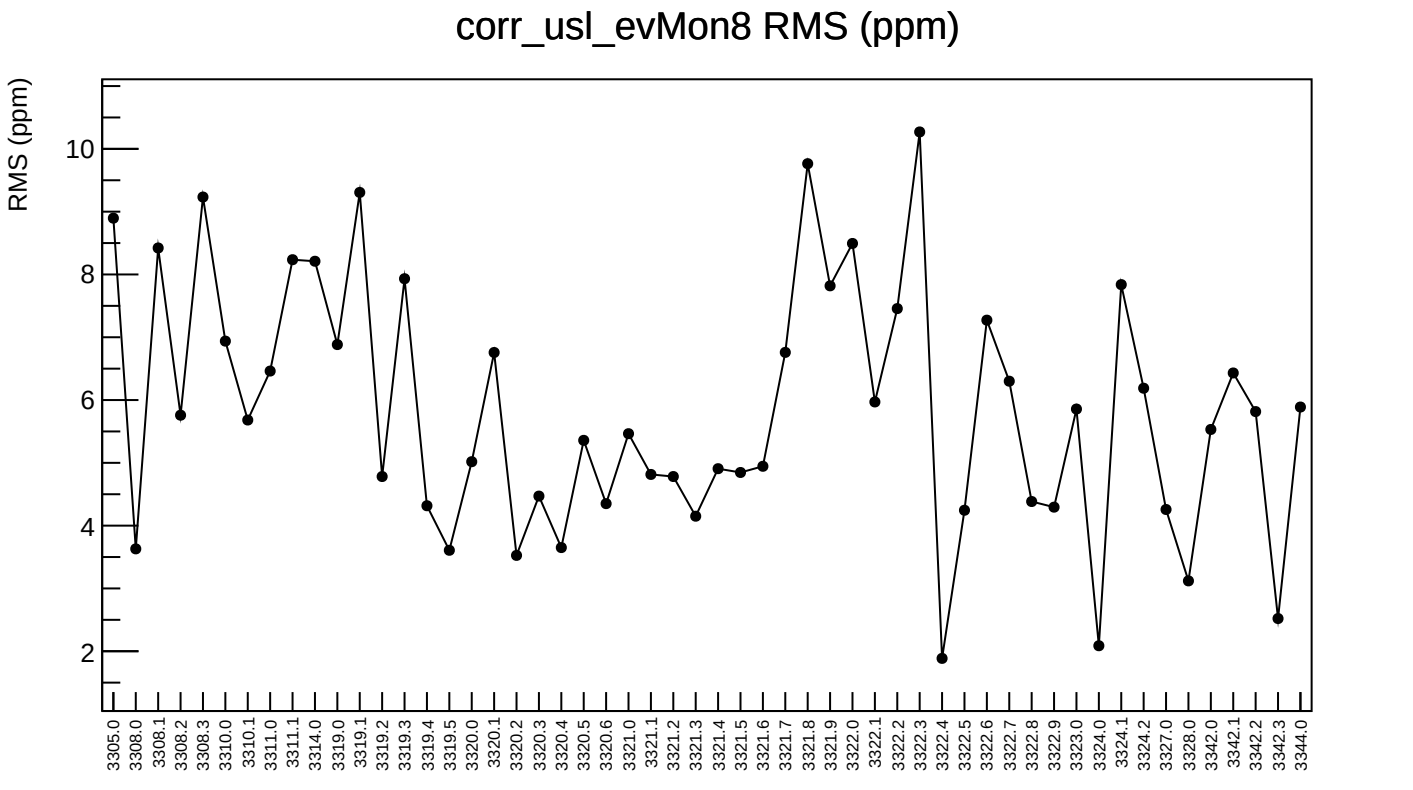

corr_usl_evMon7 (ppb)
χ² / ndf 187.3 / 53
p0 −2.108 ± 19.79

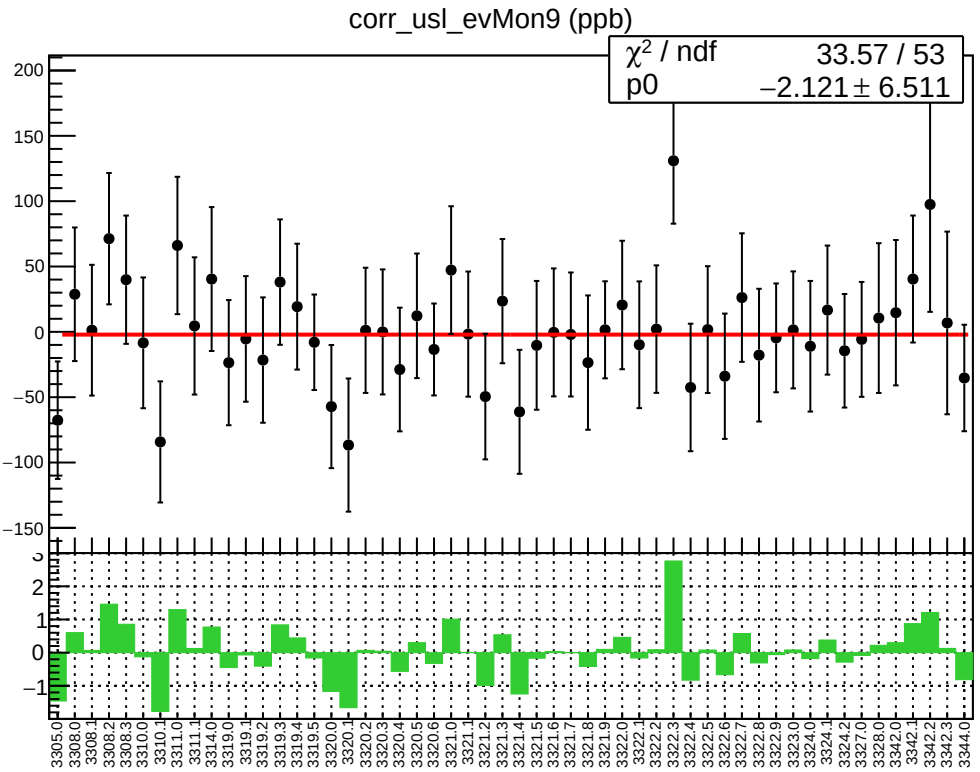

1D pull distribution
Mean −0.01478 ± 0.2534
Std Dev 1.862 ± 0.1792
Underflow 0
Overflow 0
χ² / ndf 13.98 / 13
Constant 4.157 ± 0.907
Mean 0.2637 ± 0.4239
Sigma 2.243 ± 0.473

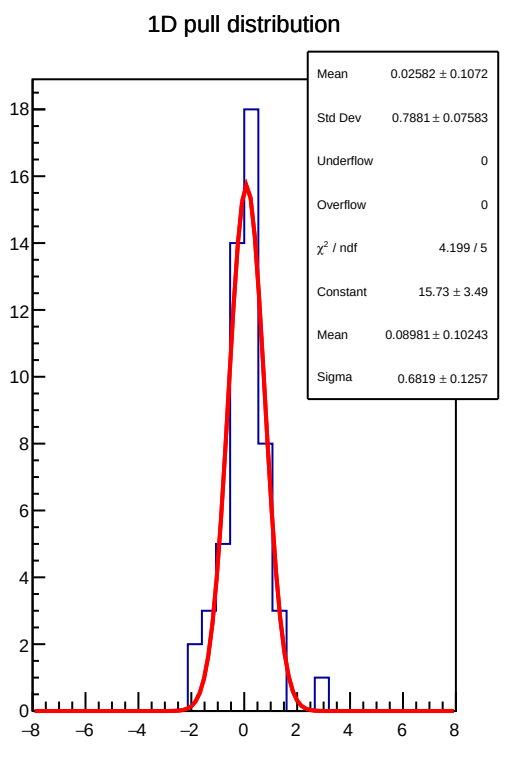

corr_usl_evMon7 RMS (ppm)
RMS (ppm)
31
30
29
28
27
26
25
24
23
22
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

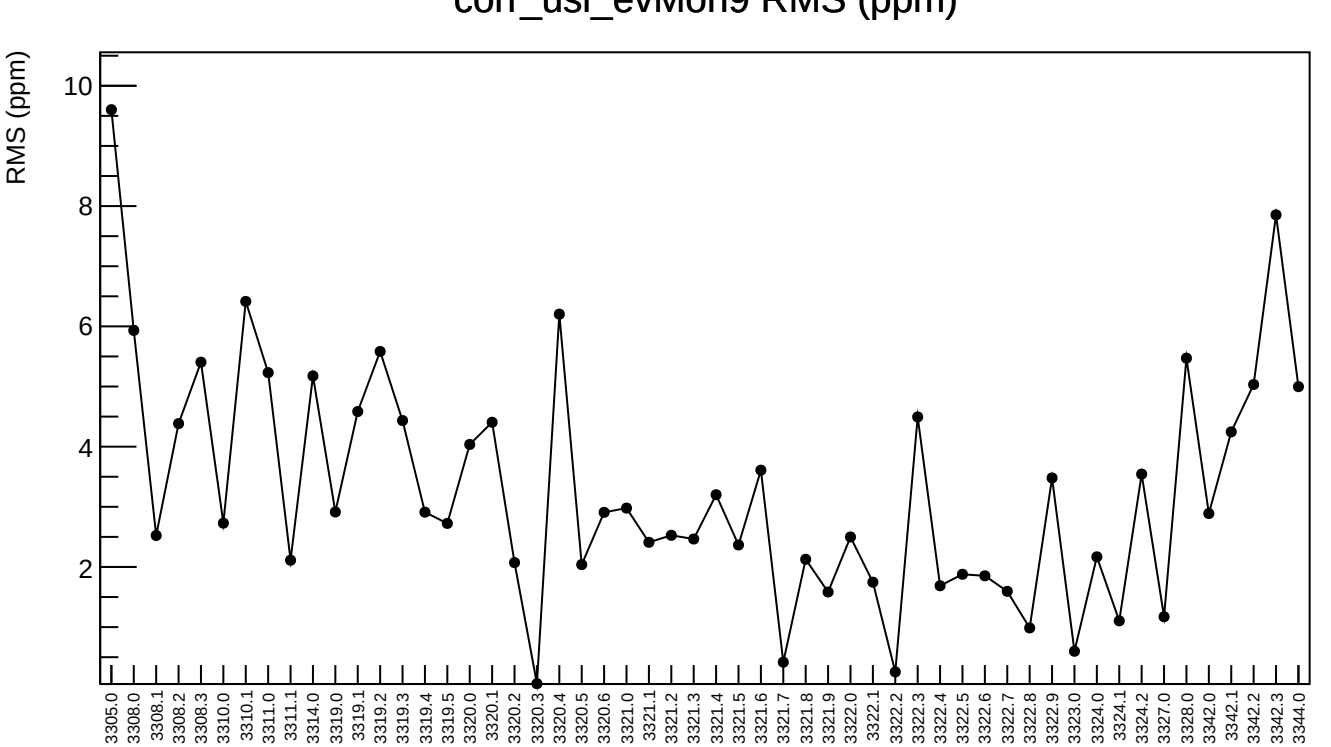

corr_usl_evMon8 (ppb)
χ² / ndf 65.73 / 53
p0 −8.336 ± 8.845
300
200
100
0
−100
−200
−300
−400
3
2
1
0
−1
−2
−3
−4
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

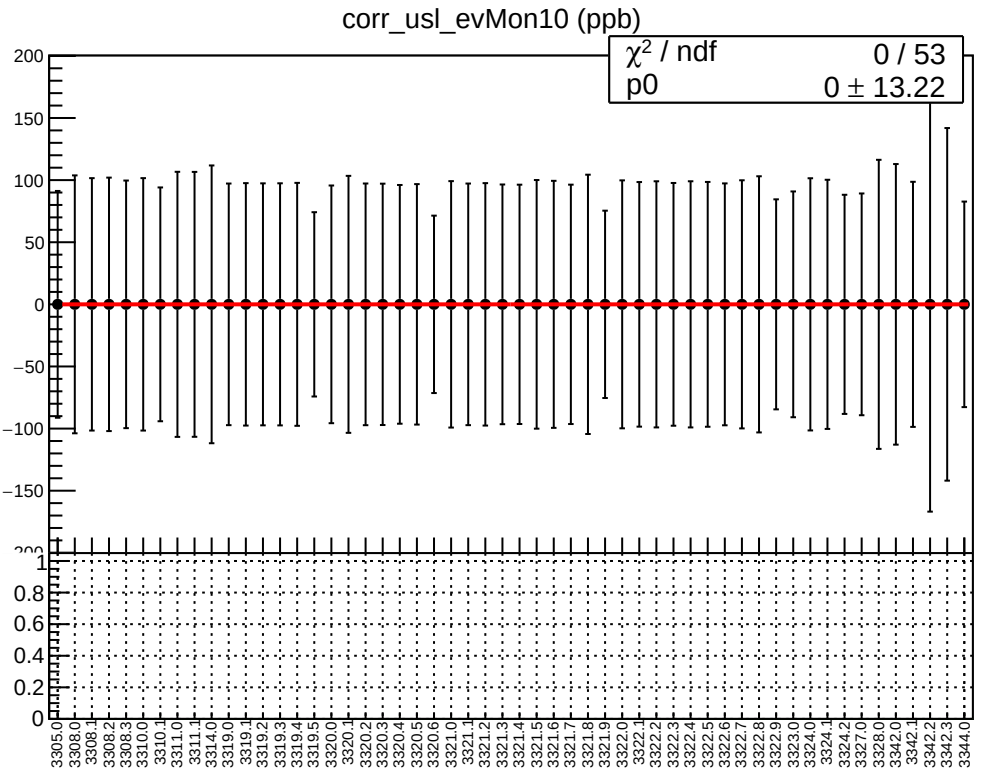

1D pull distribution
Mean −0.001198 ± 0.1501
Std Dev 1.103 ± 0.1062
Underflow 0
Overflow 0
χ² / ndf 6.881 / 6
Constant 11.67 ± 2.52
Mean −0.01904 ± 0.18107
Sigma 0.895 ± 0.183
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

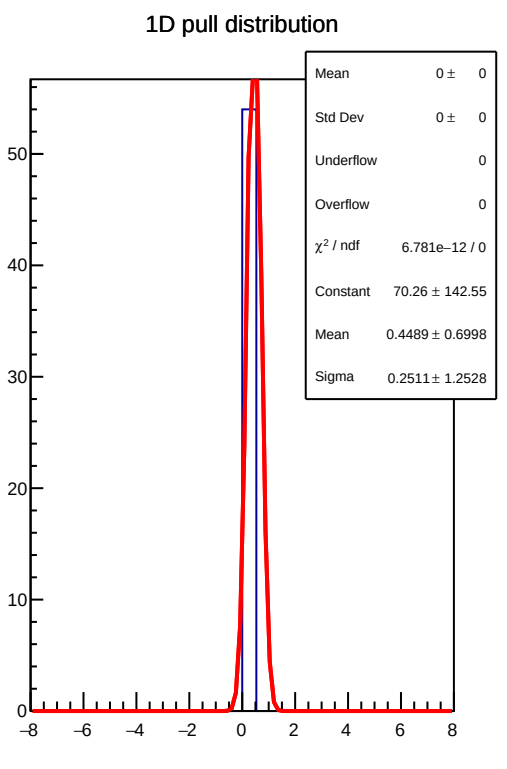

corr_usl_evMon8 RMS (ppm)
RMS (ppm)
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

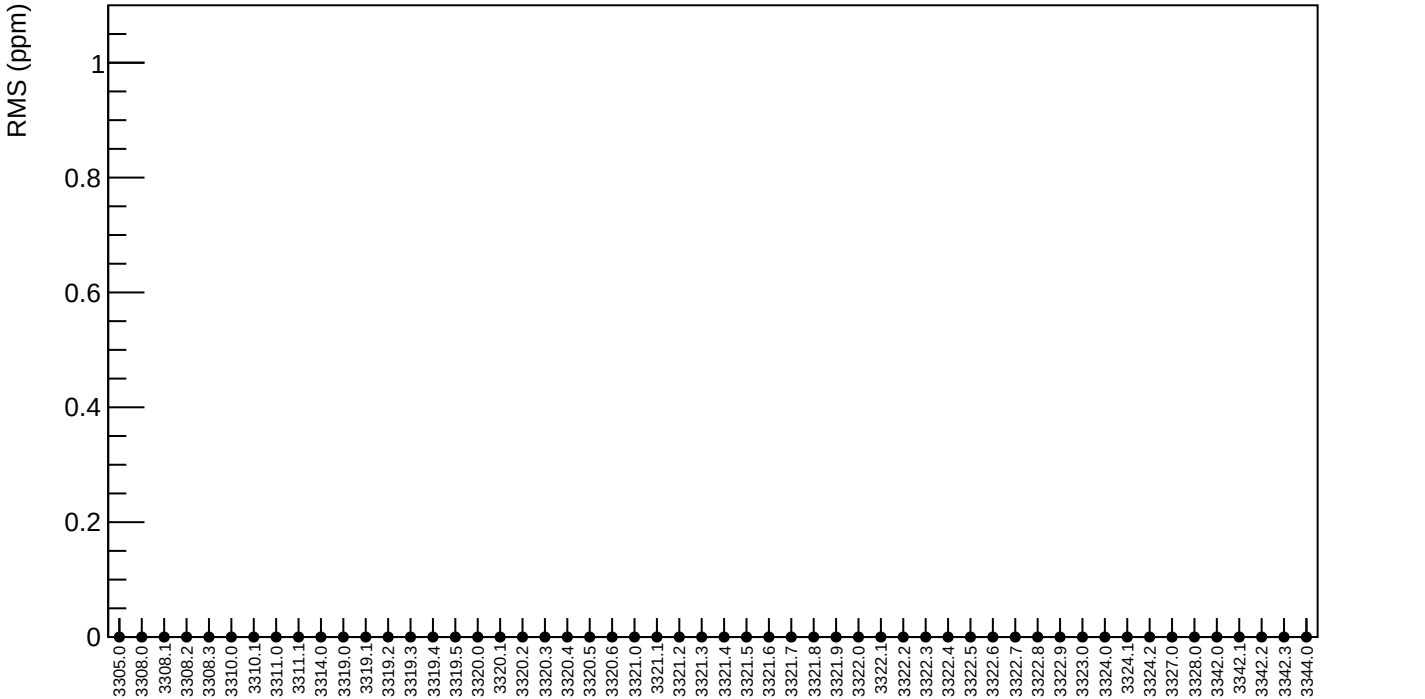

corr_usl_evMon9 (ppb)
χ² / ndf 33.57 / 53
p0 −2.121 ± 6.511

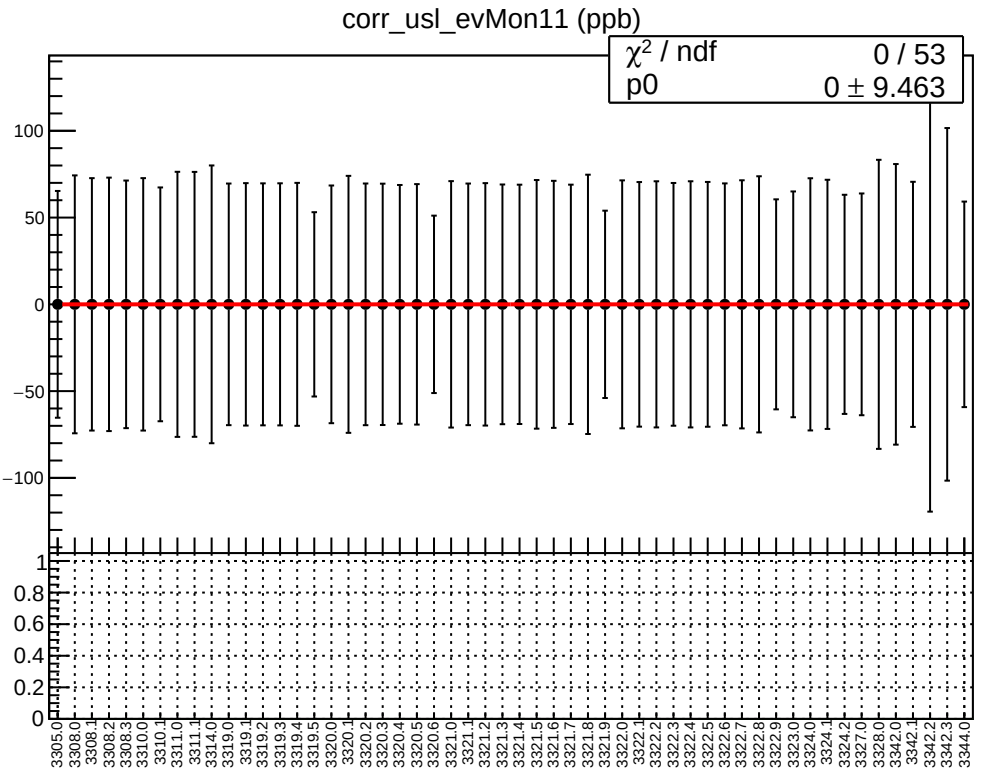

1D pull distribution
Mean 0.02582 ± 0.1072
Std Dev 0.7881 ± 0.07583
Underflow 0
Overflow 0
χ² / ndf 4.199 / 5
Constant 15.73 ± 3.49
Mean 0.08981 ± 0.10243
Sigma 0.6819 ± 0.1257

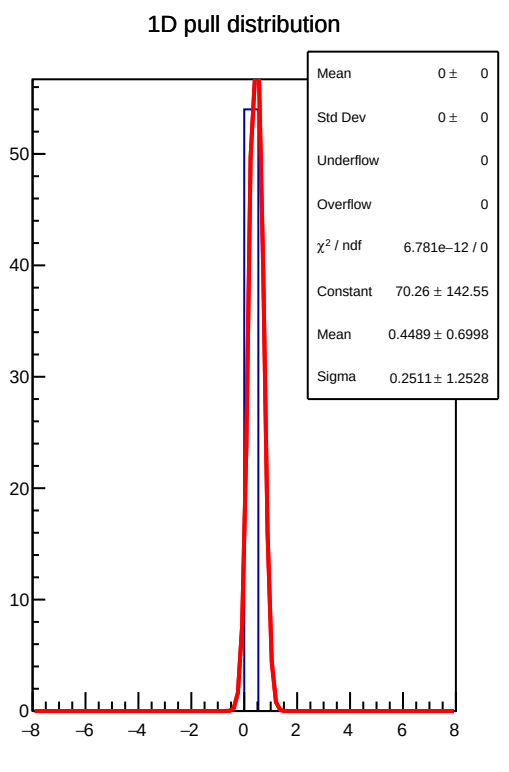

corr_usl_evMon9 RMS (ppm)
RMS (ppm)
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

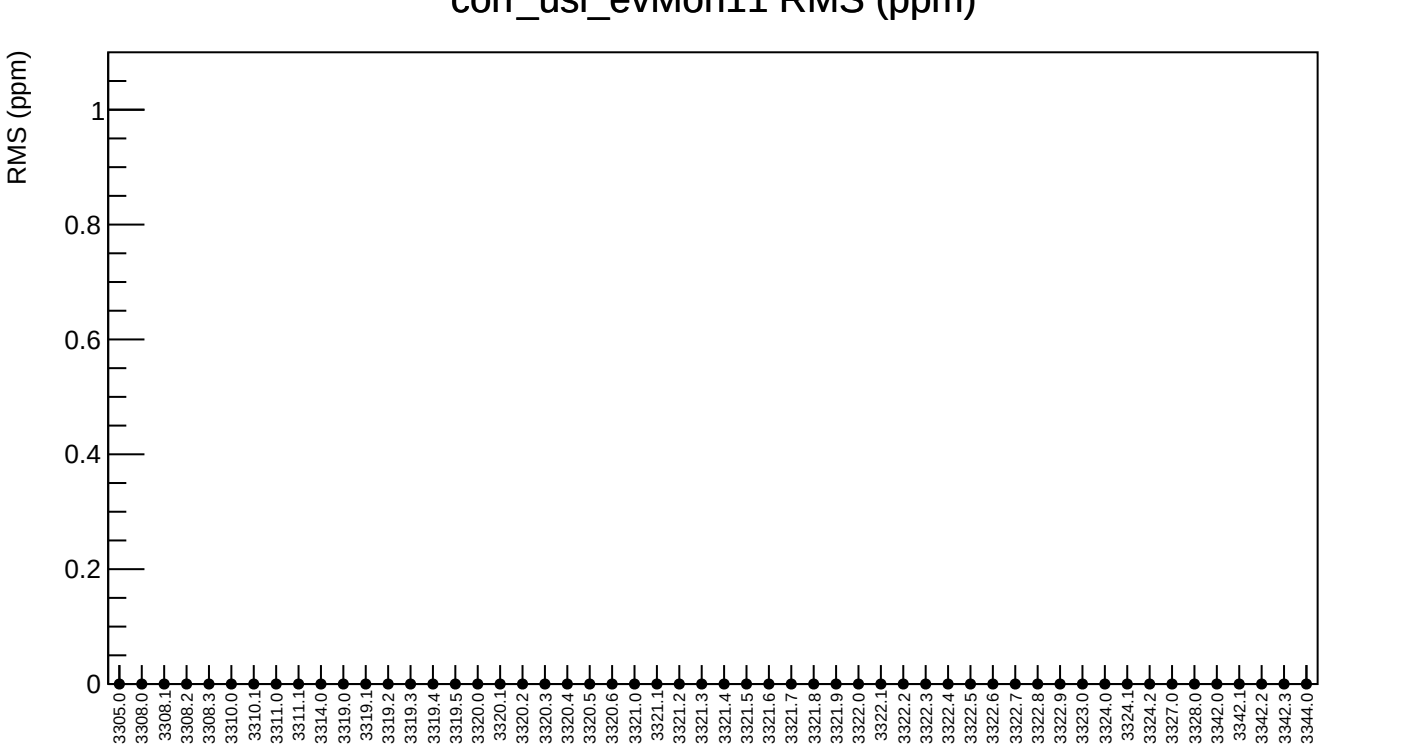

corr_usl_evMon10 (ppb)
χ² / ndf 0 / 53
p0 0 ± 13.22
200
150
100
50
0
−50
−100
−150
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

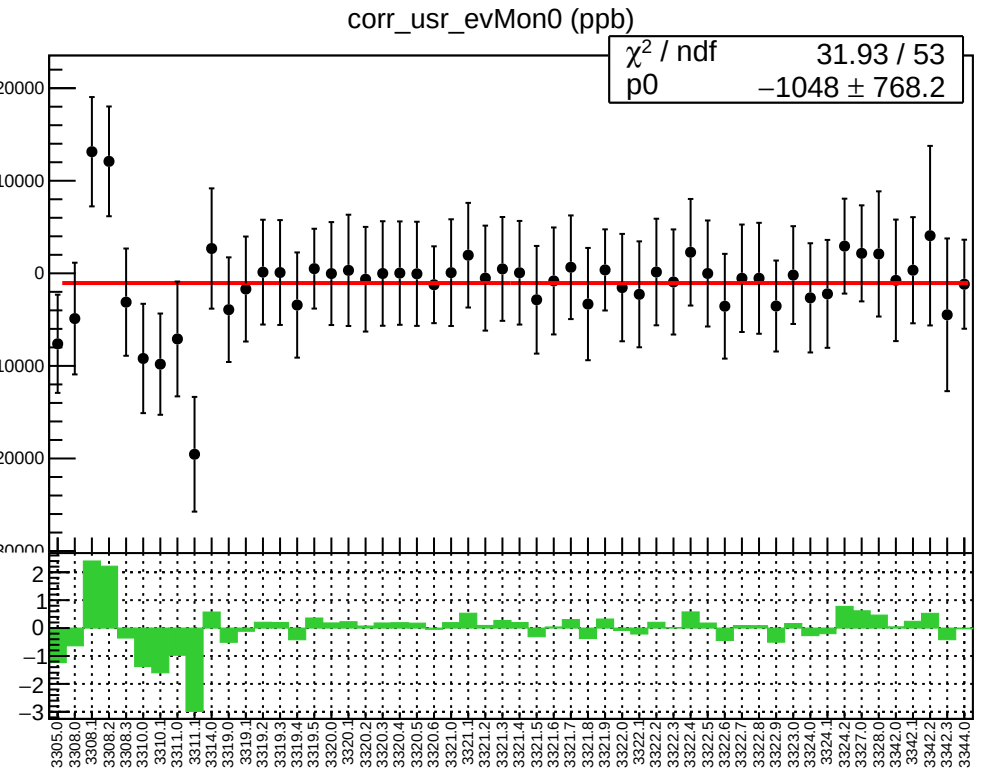

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

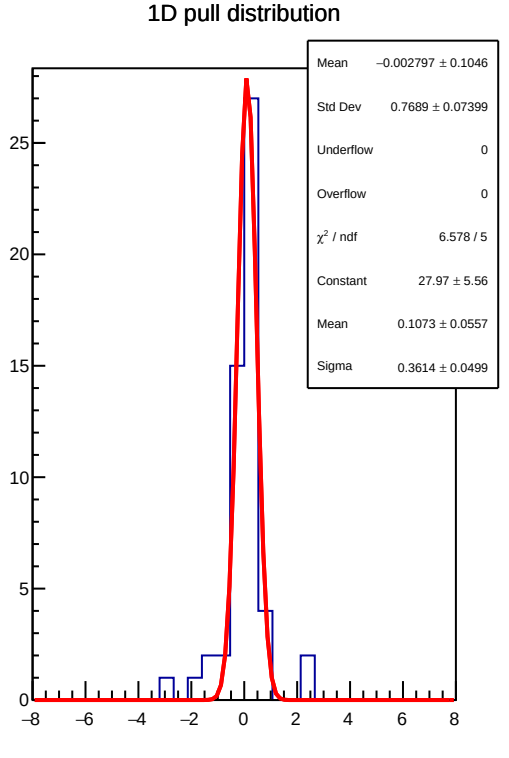

corr_usl_evMon10 RMS (ppm)
RMS (ppm)
0
0.2
0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

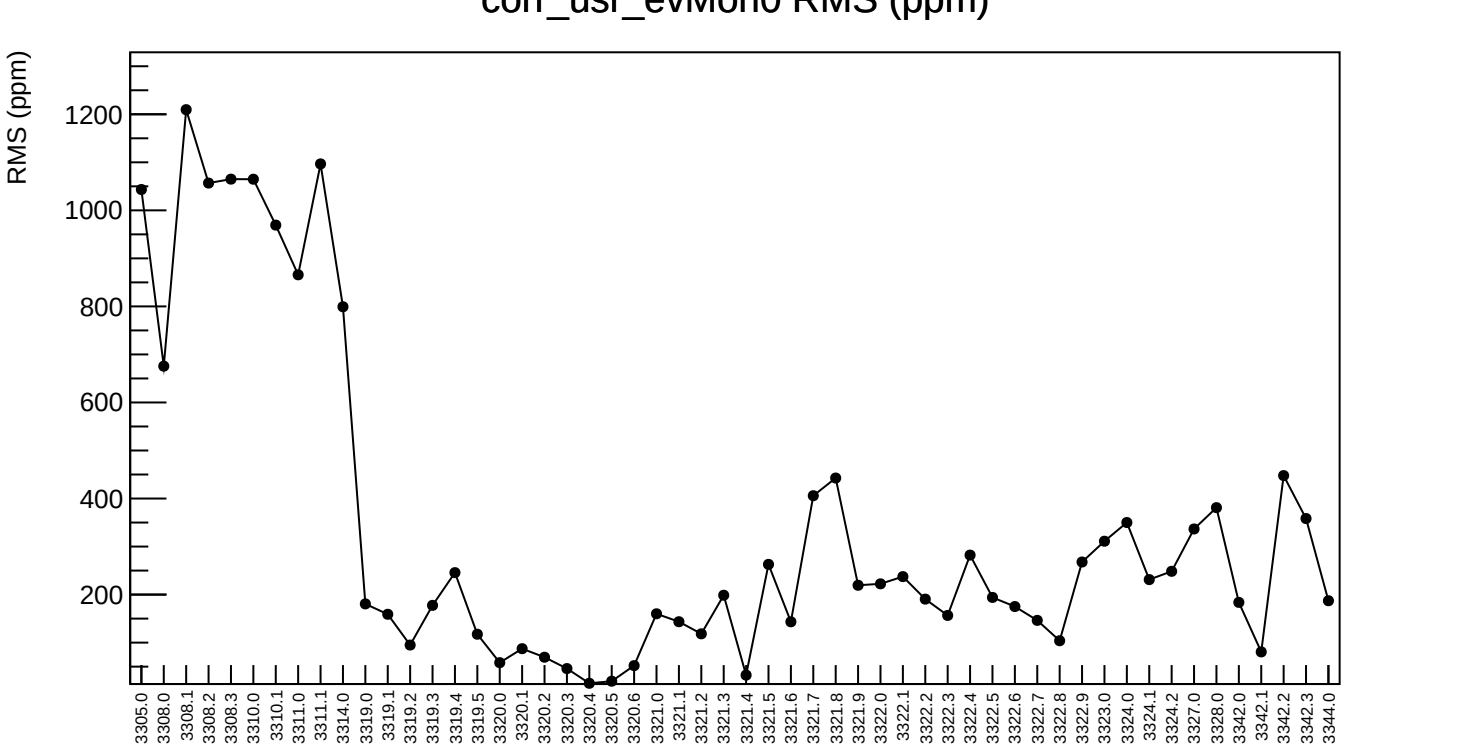

corr_usl_evMon11 (ppb)
χ² / ndf 0 / 53
p0 0 ± 9.463
100
50
0
−50
−100
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

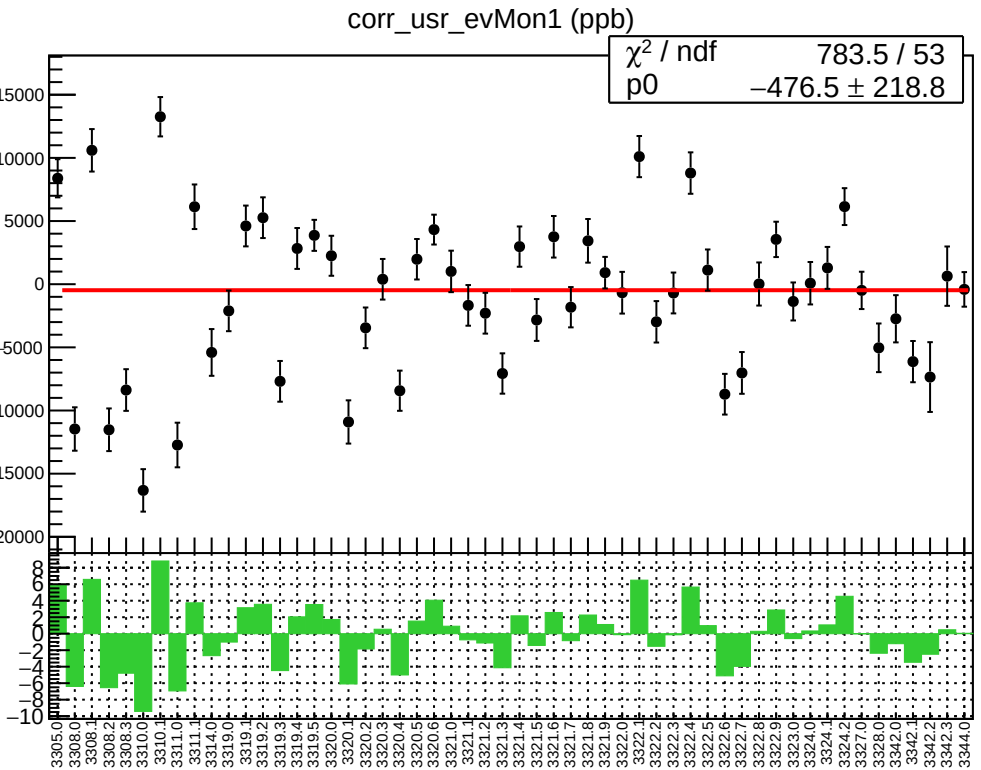

1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

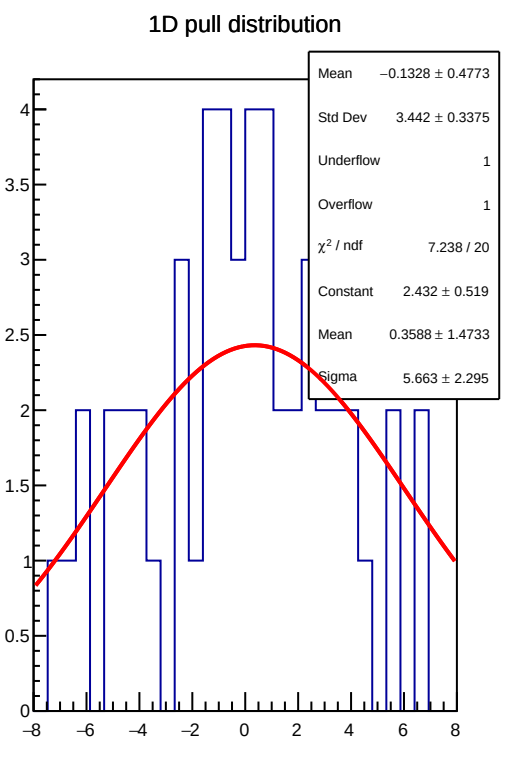

corr_usl_evMon11 RMS (ppm)
RMS (ppm)
0
0.2
0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

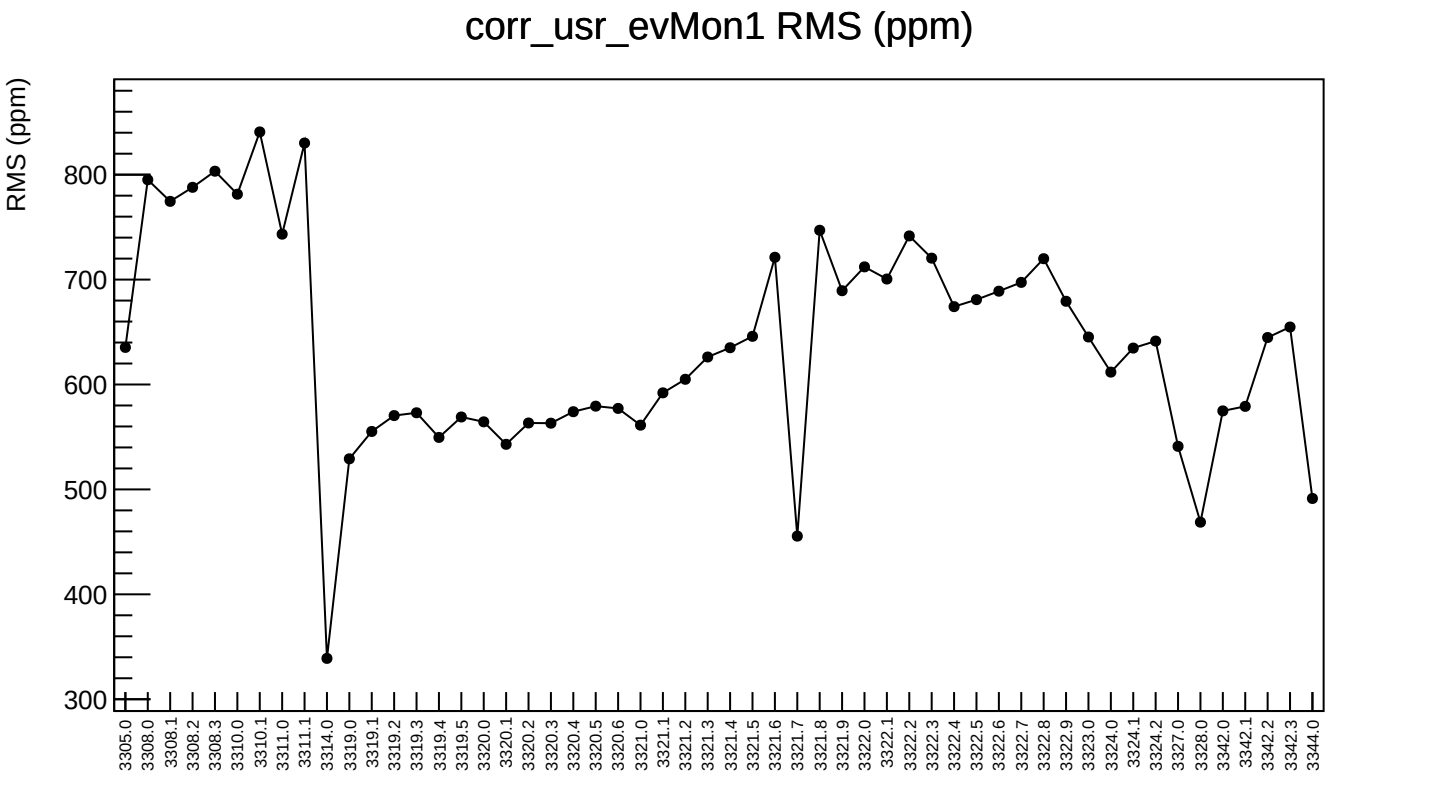

corr_usr_evMon0 (ppb)
χ² / ndf 31.93 / 53
p0 −1048 ± 768.2
20000
10000
0
10000
20000
2
1
0
−1
−2
−3
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

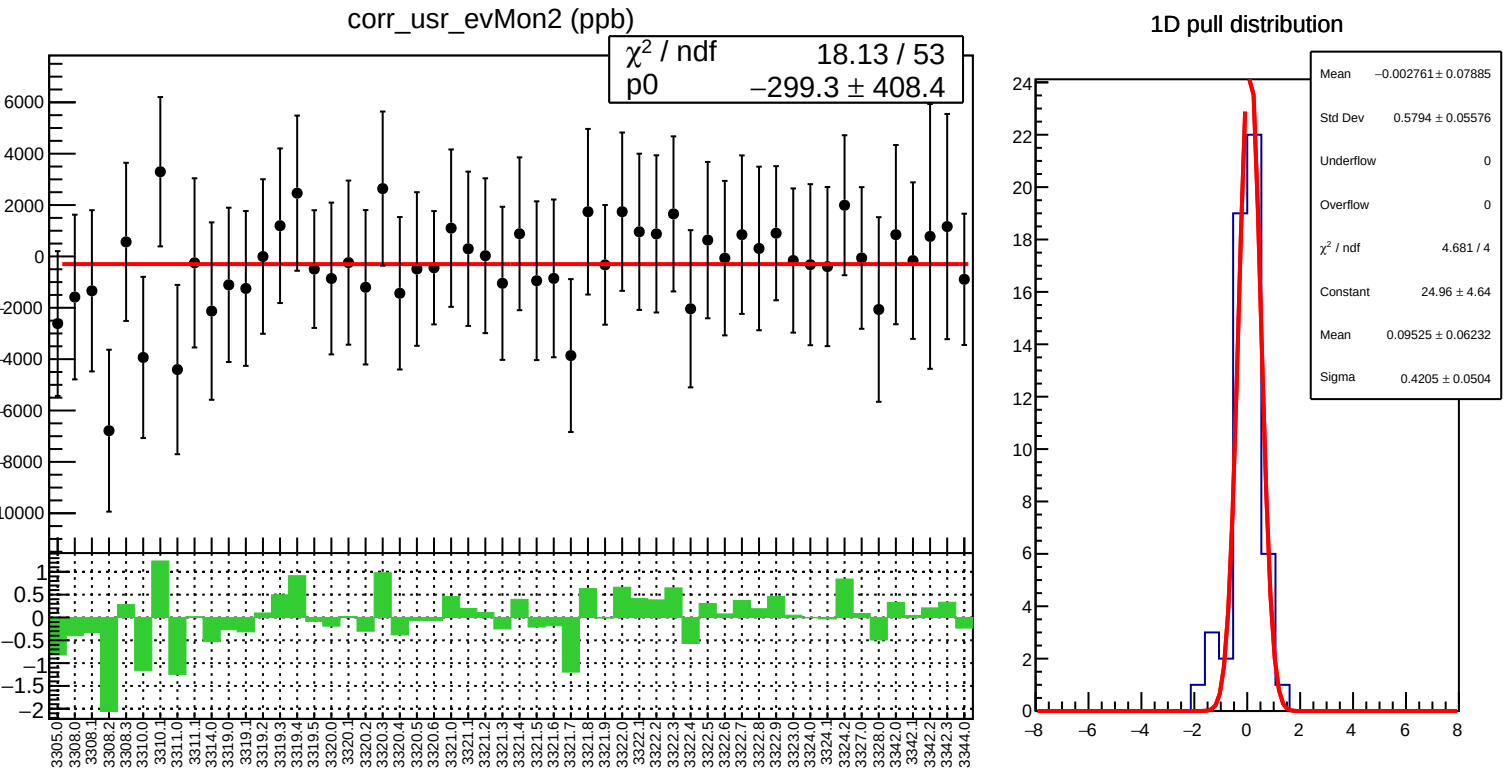

1D pull distribution
Mean −0.002797 ± 0.1046
Std Dev 0.7689 ± 0.07399
Underflow 0
Overflow 0
χ² / ndf 6.578 / 5
Constant 27.97 ± 5.56
Mean 0.1073 ± 0.0557
Sigma 0.3614 ± 0.0499
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

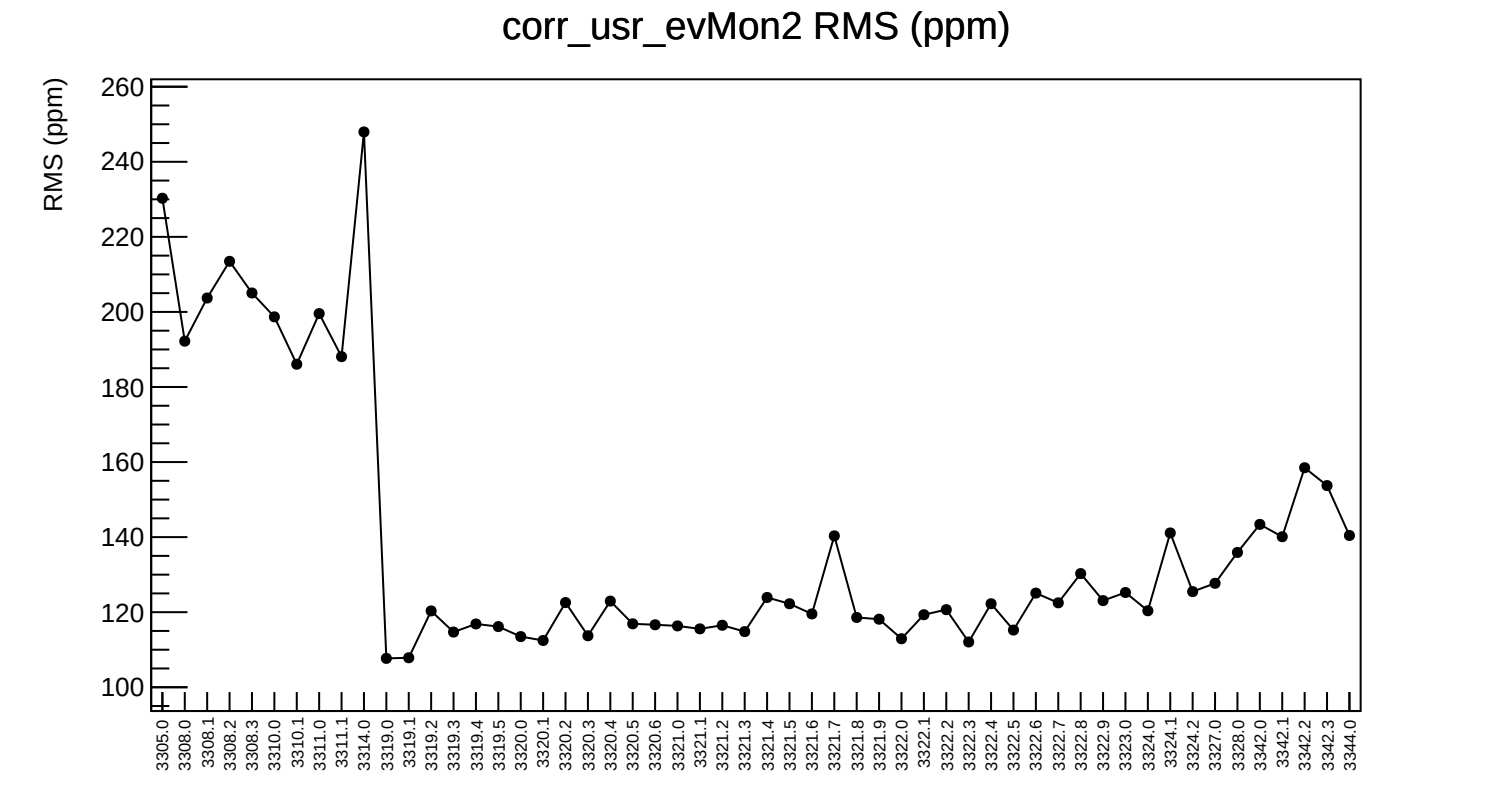

corr_usr_evMon0 RMS (ppm)
RMS (ppm)
1200
1000
800
600
400
200
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

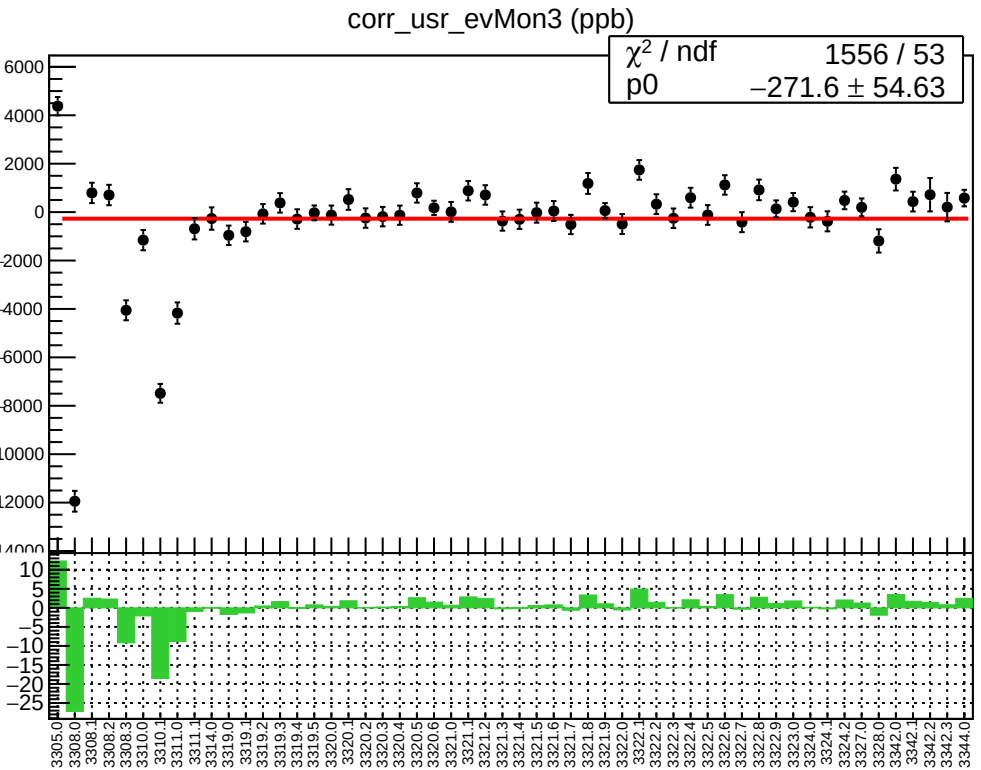

corr_usr_evMon1 (ppb)
χ² / ndf 783.5 / 53
p0 −476.5 ± 218.8

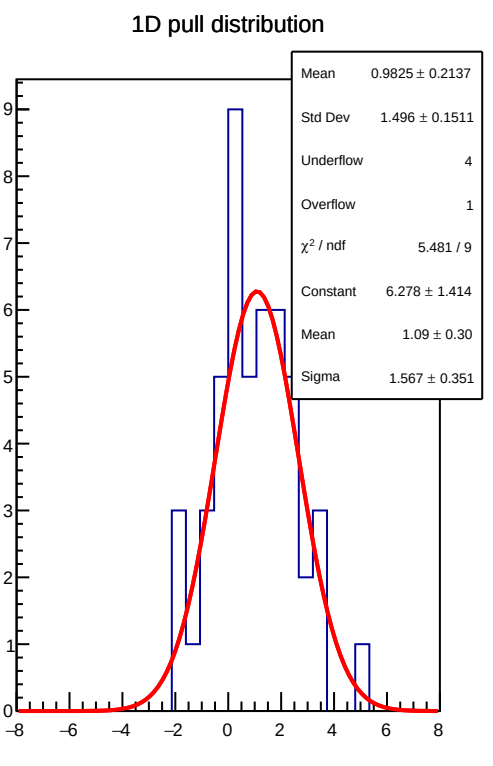

1D pull distribution
Mean −0.1328 ± 0.4773
Std Dev 3.442 ± 0.3375
Underflow 1
Overflow 1
χ² / ndf 7.238 / 20
Constant 2.432 ± 0.519
Mean 0.3588 ± 1.4733
Sigma 5.663 ± 2.295

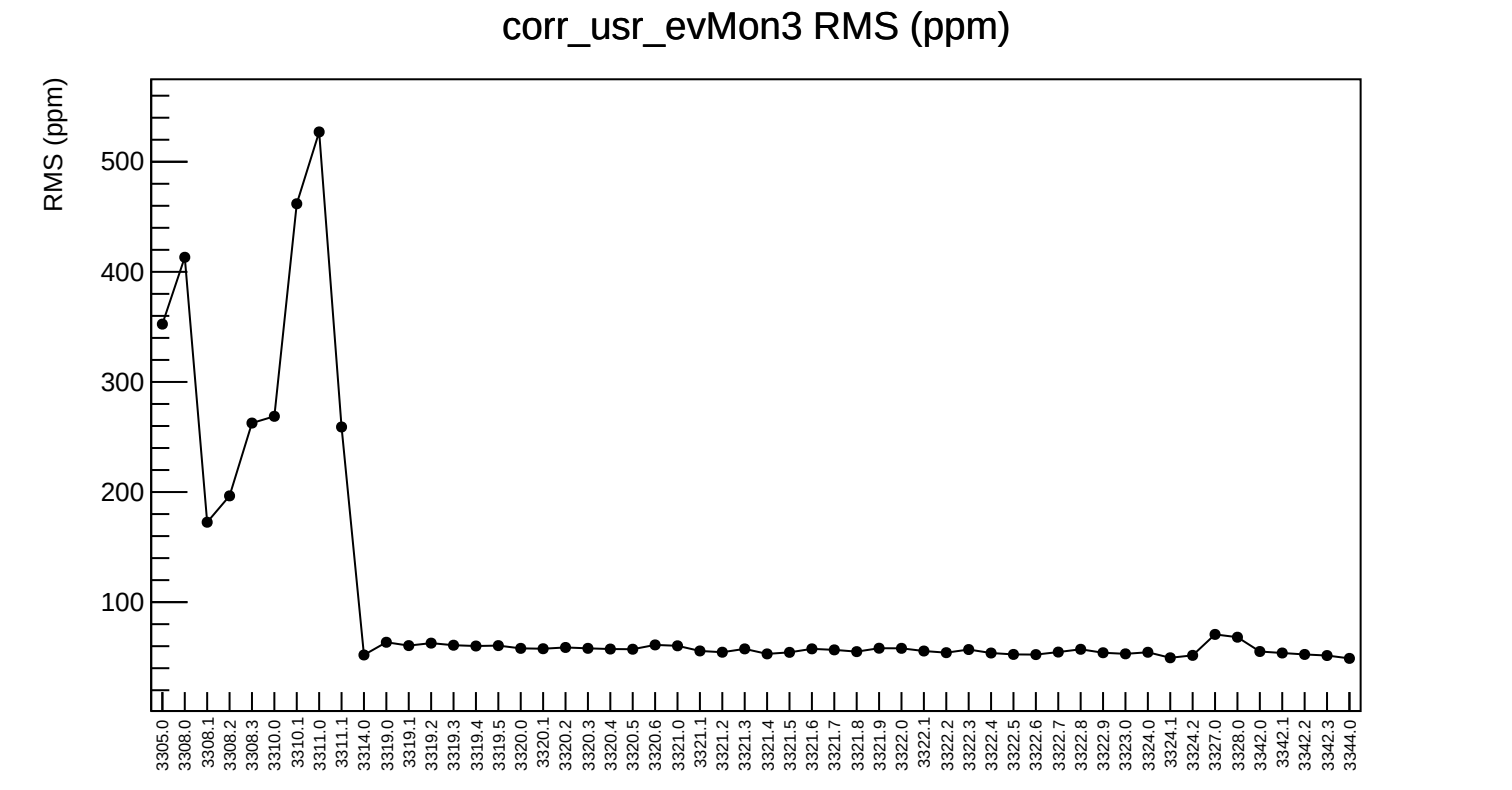

corr_usr_evMon1 RMS (ppm)
RMS (ppm)
800
700
600
500
400
300
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

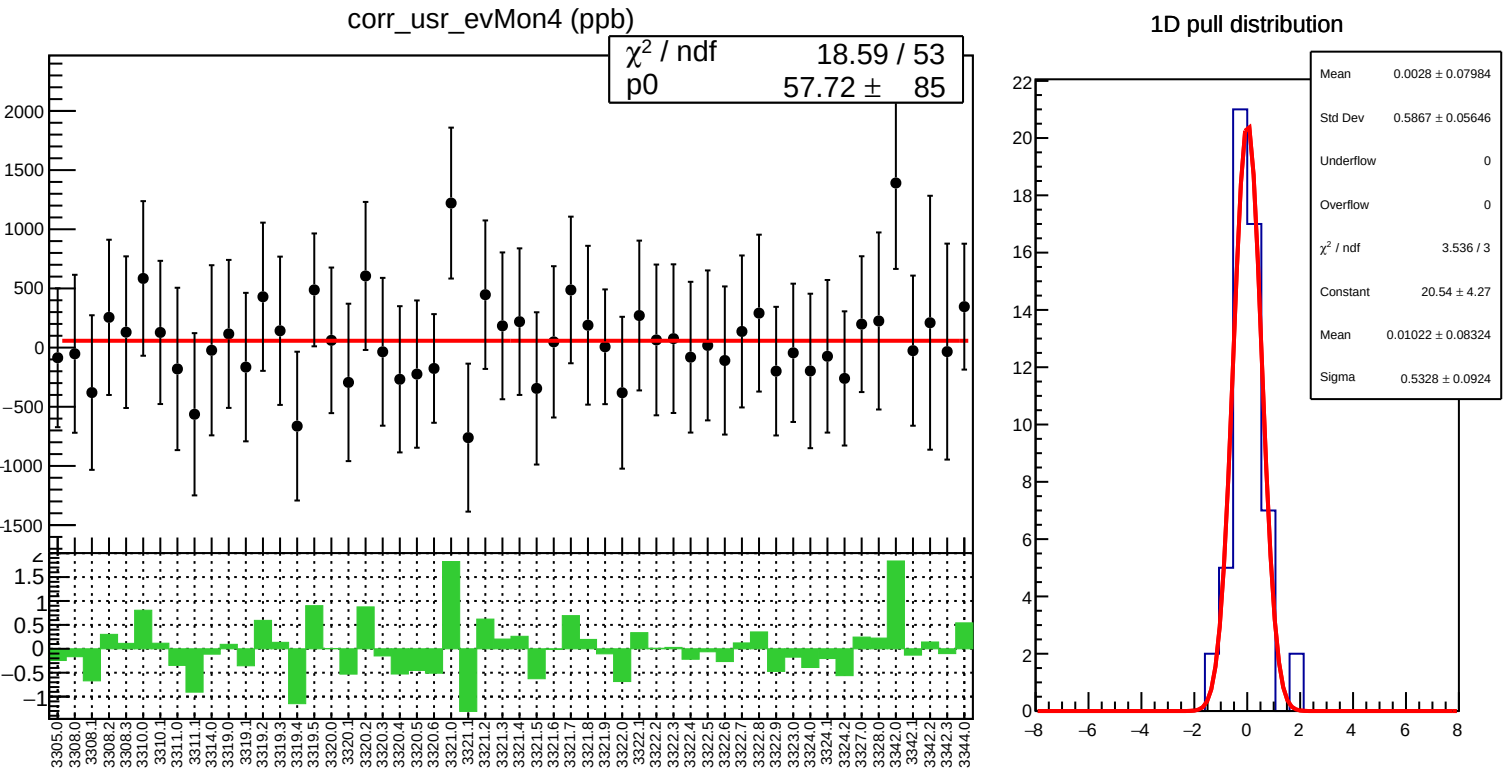

corr_usr_evMon2 (ppb)
χ² / ndf 18.13 / 53
p0 −299.3 ± 408.4
1D pull distribution
Mean −0.002761 ± 0.07885
Std Dev 0.5794 ± 0.05576
Underflow 0
Overflow 0
χ² / ndf 4.681 / 4
Constant 24.96 ± 4.64
Mean 0.09525 ± 0.06232
Sigma 0.4205 ± 0.0504

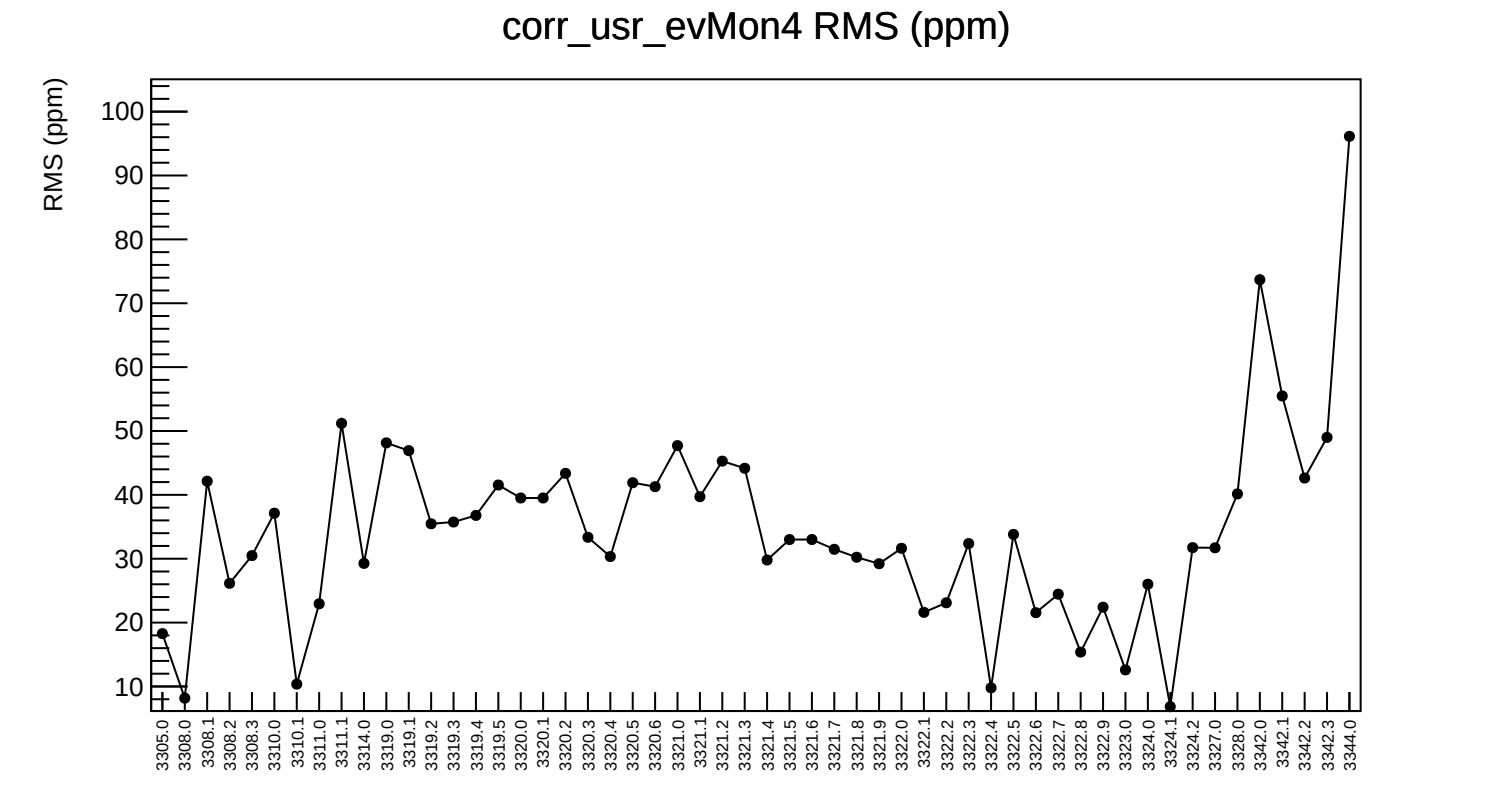

corr_usr_evMon2 RMS (ppm)
RMS (ppm)
260
240
220
200
180
160
140
120
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

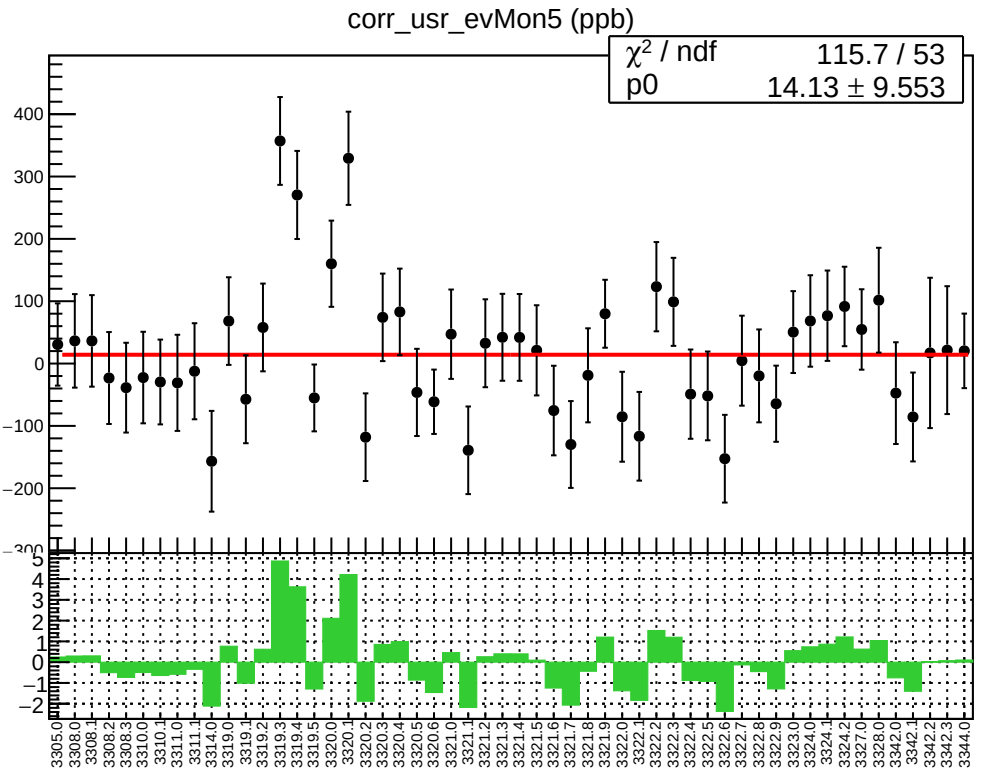

corr_usr_evMon3 (ppb)
χ² / ndf 1556 / 53
p0 −271.6 ± 54.63
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
10
5
0
−5
−10
−15
−20
−25
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

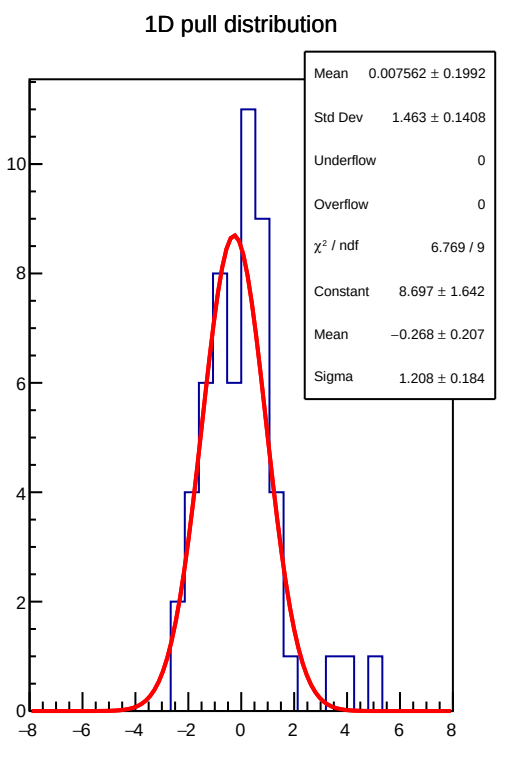

1D pull distribution
Mean 0.9825 ± 0.2137
Std Dev 1.496 ± 0.1511
Underflow 4
Overflow 1
χ² / ndf 5.481 / 9
Constant 6.278 ± 1.414
Mean 1.09 ± 0.30
Sigma 1.567 ± 0.351
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

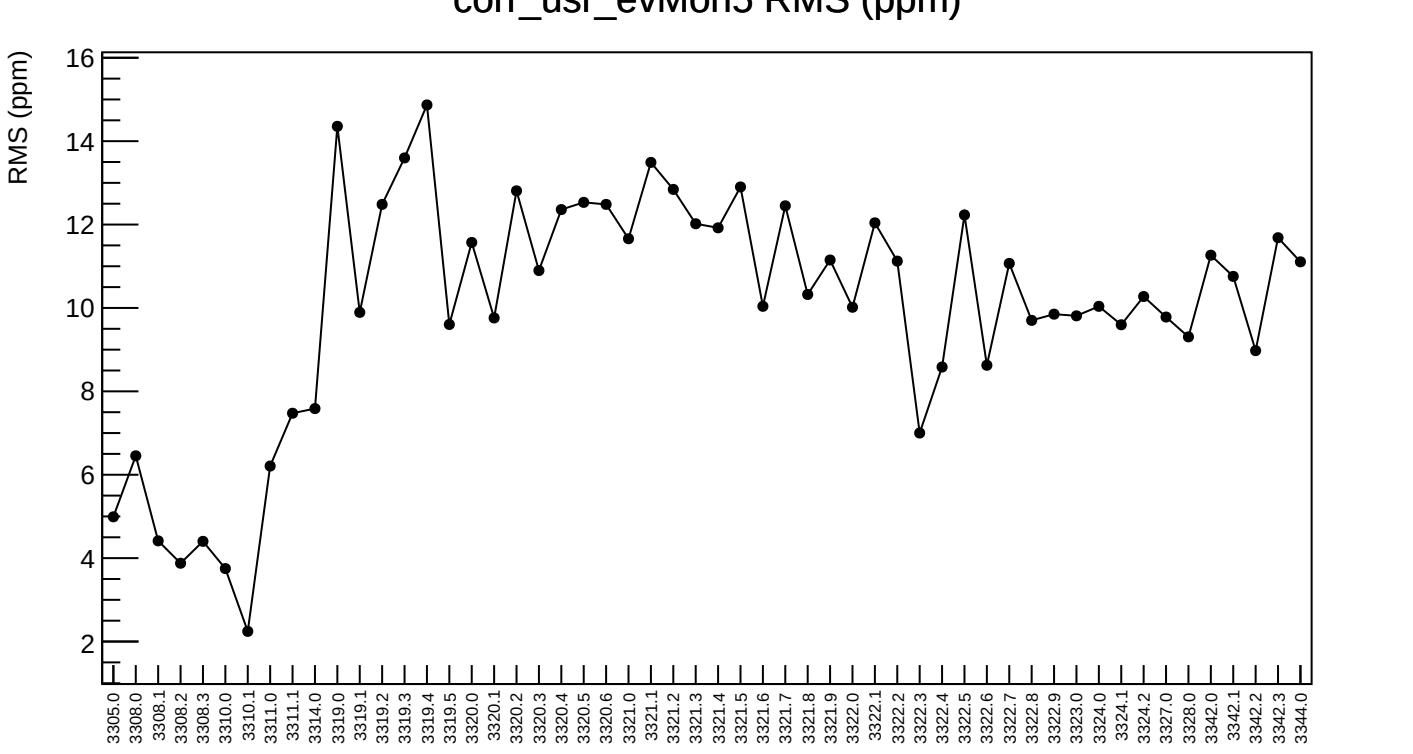

corr_usr_evMon3 RMS (ppm)
RMS (ppm)
500
400
300
200
100
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

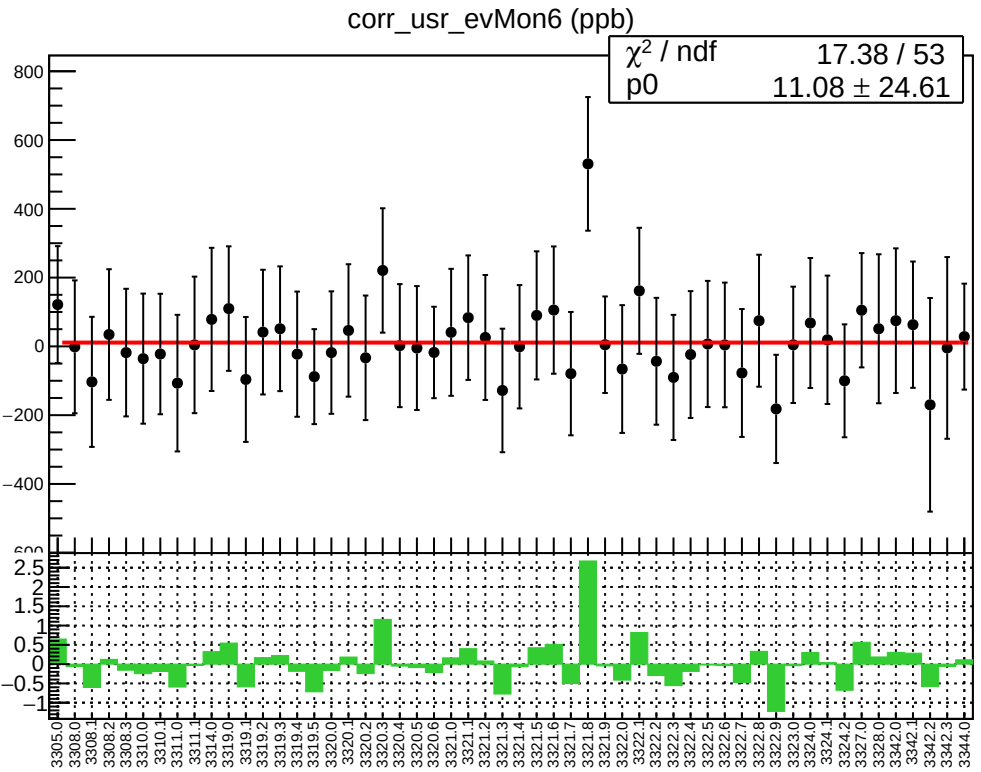

corr_usr_evMon4 (ppb)
χ² / ndf 18.59 / 53
p0 57.72 ± 85
2000
1500
1000
500
0
−500
−1000
−1500
1.5
1
0.5
0
−0.5
−1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0
1D pull distribution
Mean 0.0028 ± 0.07984
Std Dev 0.5867 ± 0.05646
Underflow 0
Overflow 0
χ² / ndf 3.536 / 3
Constant 20.54 ± 4.27
Mean 0.01022 ± 0.08324
Sigma 0.5328 ± 0.0924
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

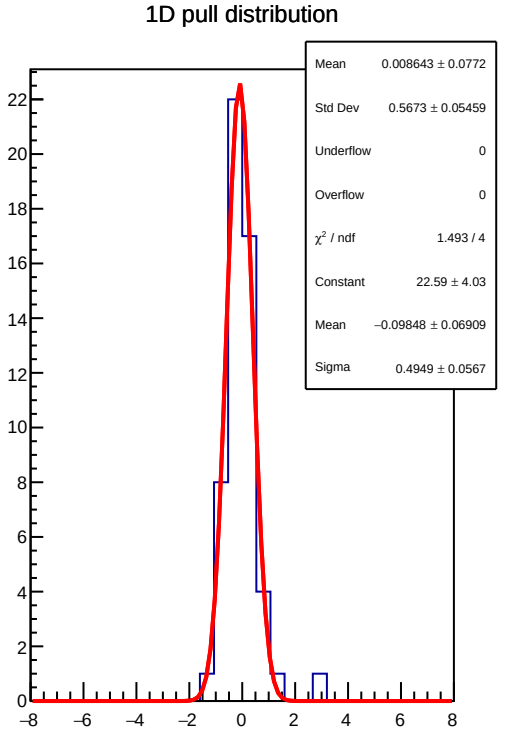

corr_usr_evMon4 RMS (ppm)
RMS (ppm)
100
90
80
70
60
50
40
30
20
10
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

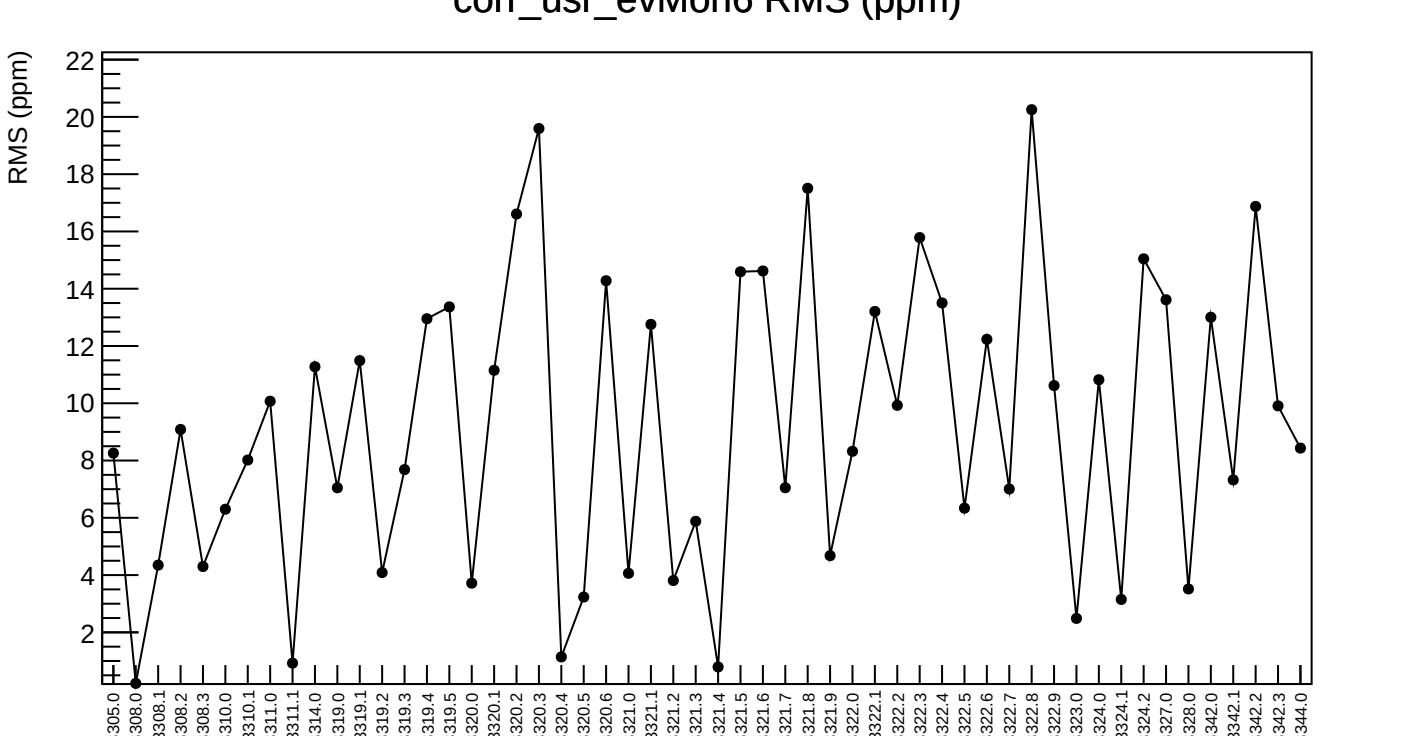

corr_usr_evMon5 (ppb)
χ² / ndf 115.7 / 53
p0 14.13 ± 9.553
400
300
200
100
0
−100
−200
5
4
3
2
1
0
−1
−2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

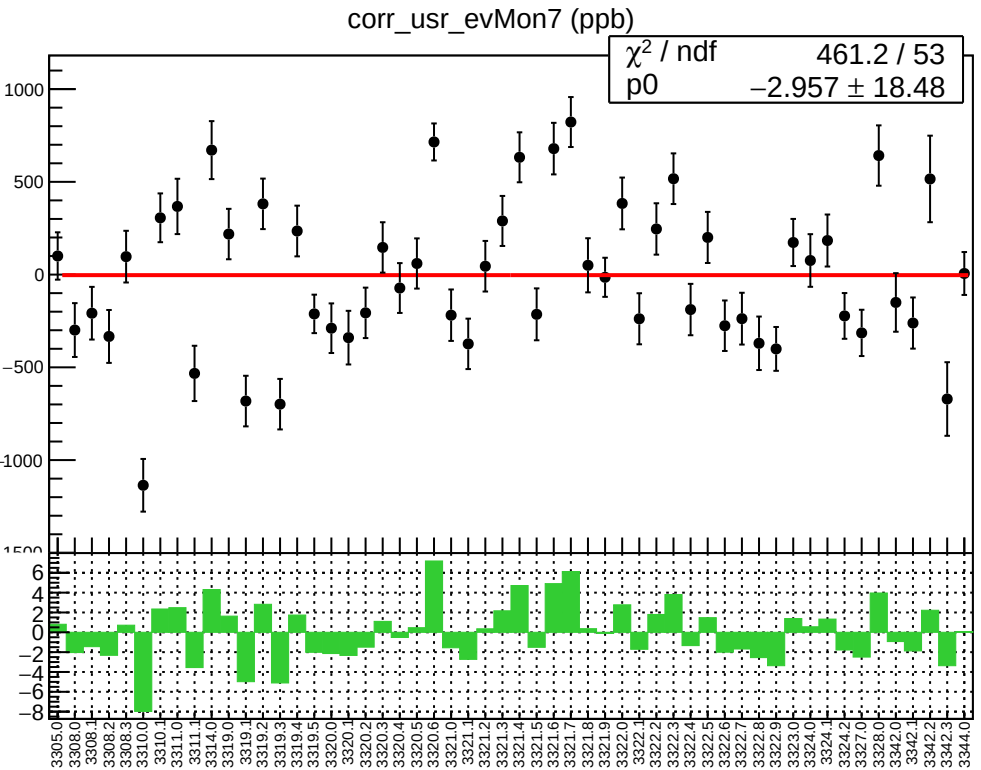

1D pull distribution
Mean 0.007562 ± 0.1992
Std Dev 1.463 ± 0.1408
Underflow 0
Overflow 0
χ² / ndf 6.769 / 9
Constant 8.697 ± 1.642
Mean −0.268 ± 0.207
Sigma 1.208 ± 0.184
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

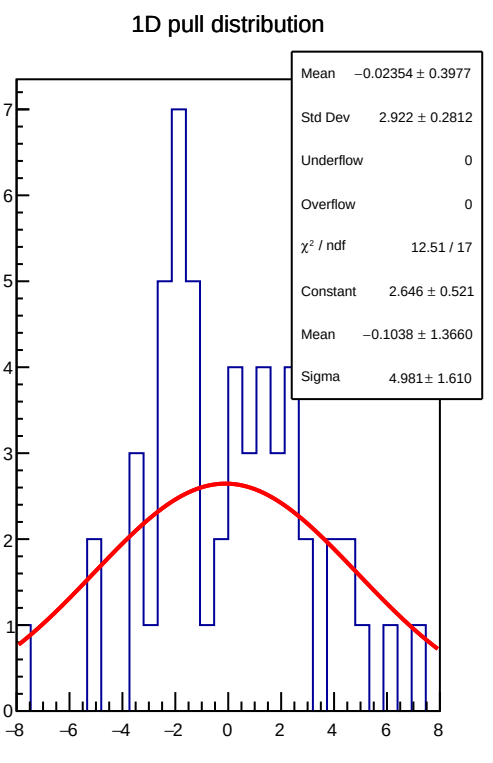

corr_usr_evMon5 RMS (ppm)
RMS (ppm)
16
14
12
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

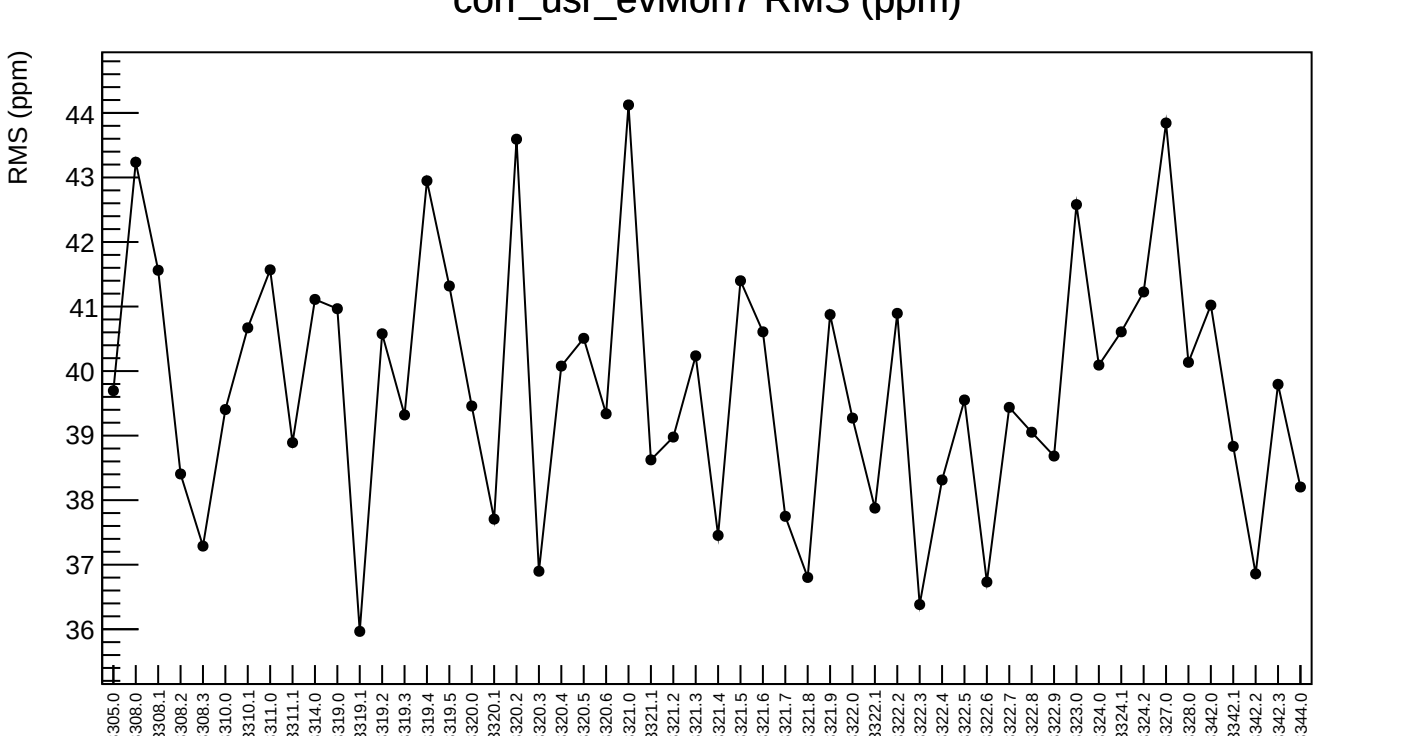

corr_usr_evMon6 (ppb)
χ² / ndf 17.38 / 53
p0 11.08 ± 24.61
800
600
400
200
0
−200
−400
2.5
2
1.5
1
0.5
0
−0.5
−1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

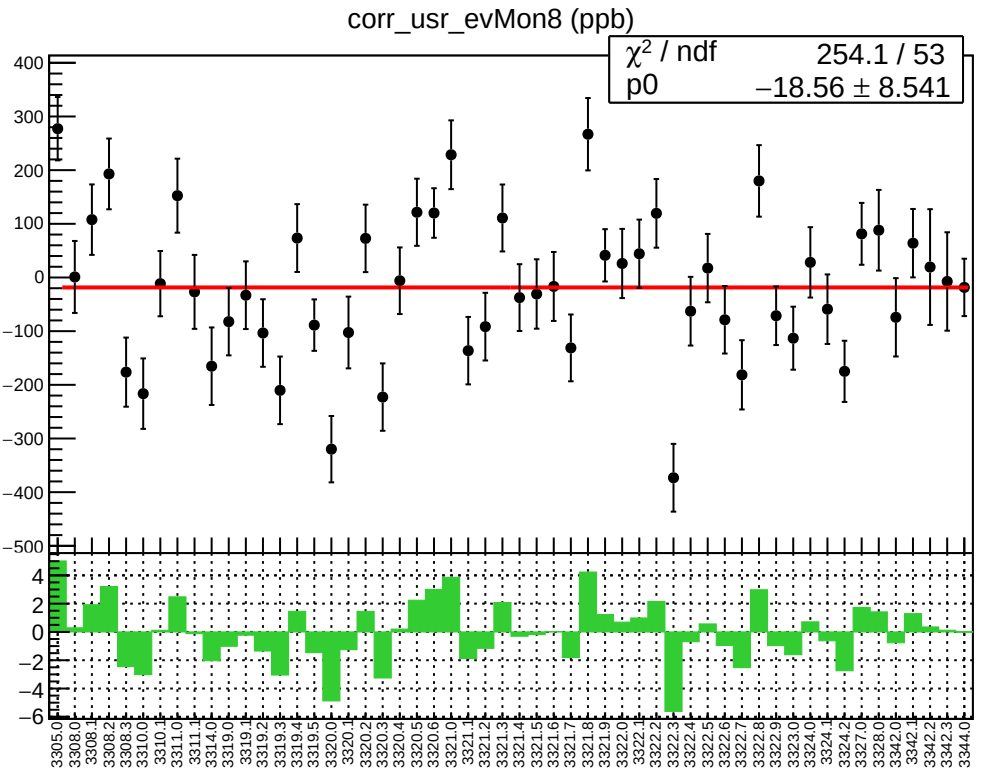

1D pull distribution
Mean 0.008643 ± 0.0772
Std Dev 0.5673 ± 0.05459
Underflow 0
Overflow 0
χ² / ndf 1.493 / 4
Constant 22.59 ± 4.03
Mean −0.09848 ± 0.06909
Sigma 0.4949 ± 0.0567
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

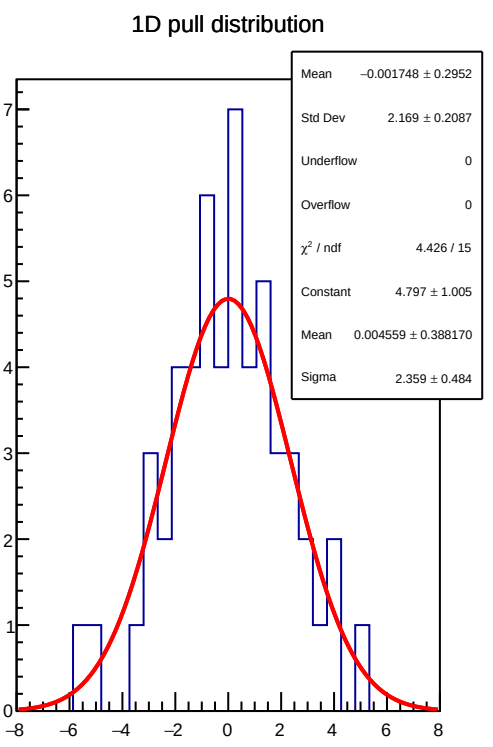

corr_usr_evMon6 RMS (ppm)
RMS (ppm)
22
20
18
16
14
12
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

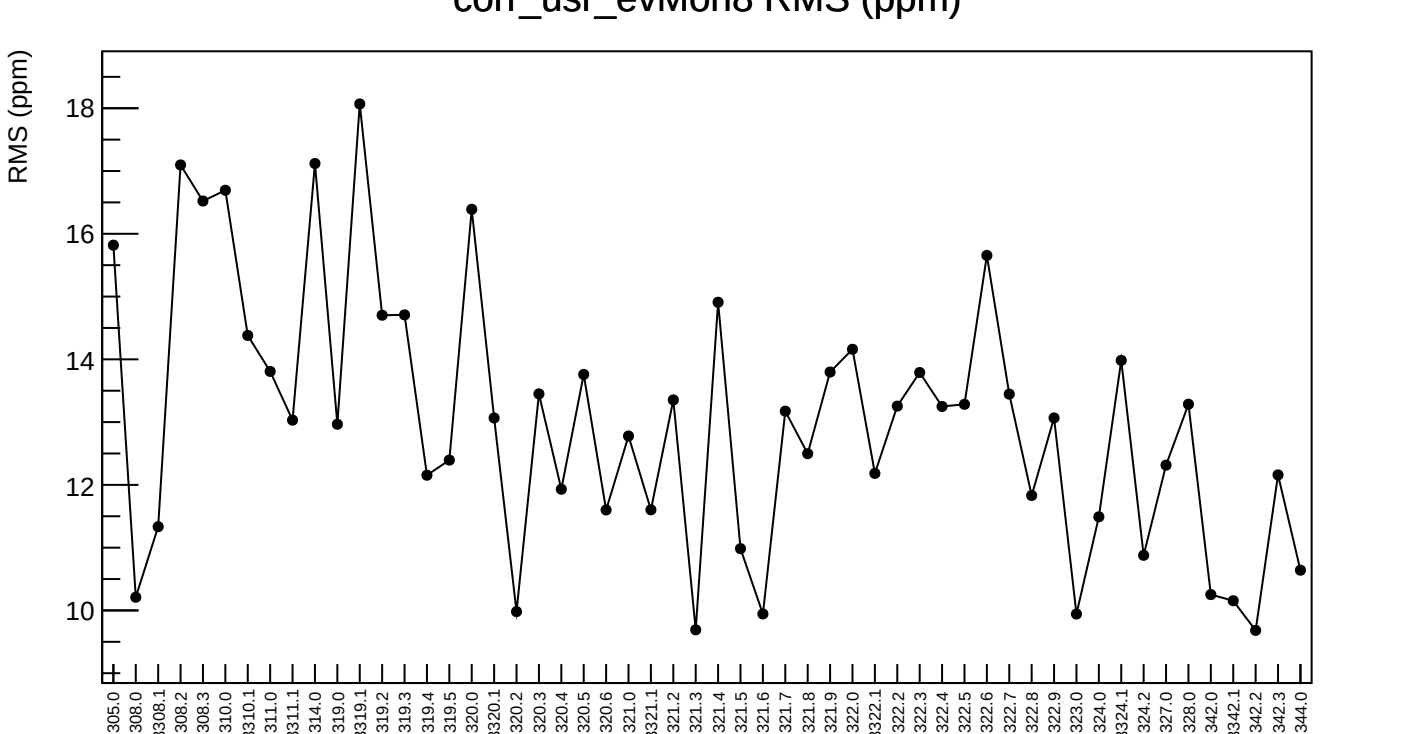

corr_usr_evMon7 (ppb)
χ² / ndf 461.2 / 53
p0 −2.957 ± 18.48
1000
500
0
−500
−1000
6
4
2
0
−2
−4
−6
−8
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

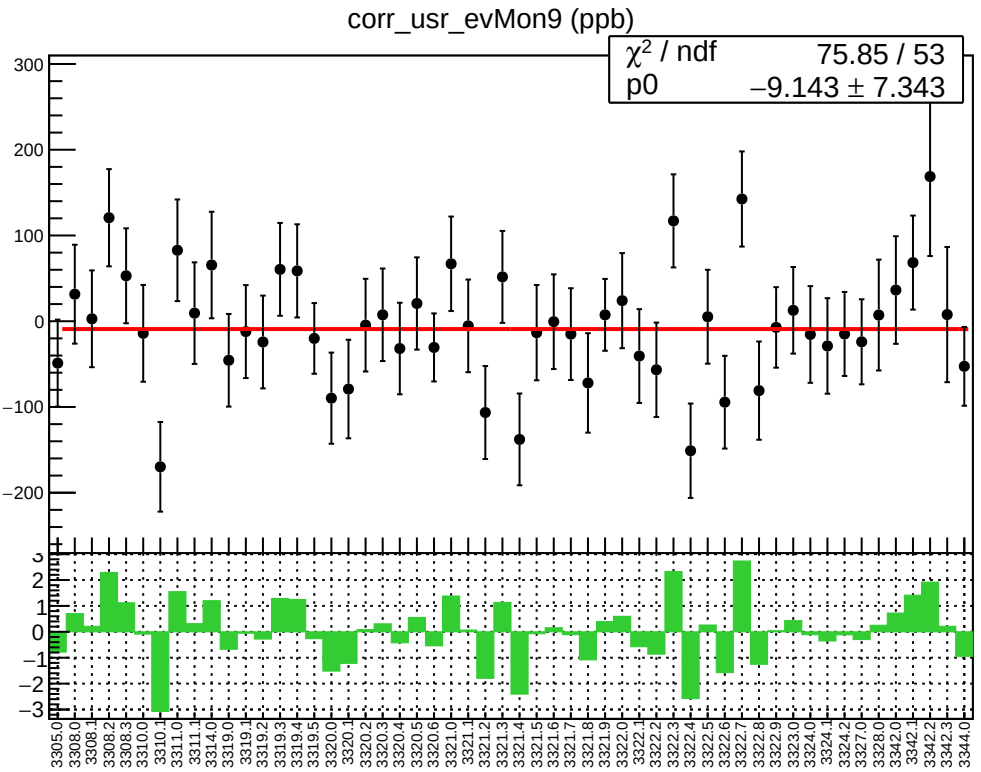

1D pull distribution
Mean −0.02354 ± 0.3977
Std Dev 2.922 ± 0.2812
Underflow 0
Overflow 0
χ² / ndf 12.51 / 17
Constant 2.646 ± 0.521
Mean −0.1038 ± 1.3660
Sigma 4.981± 1.610
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

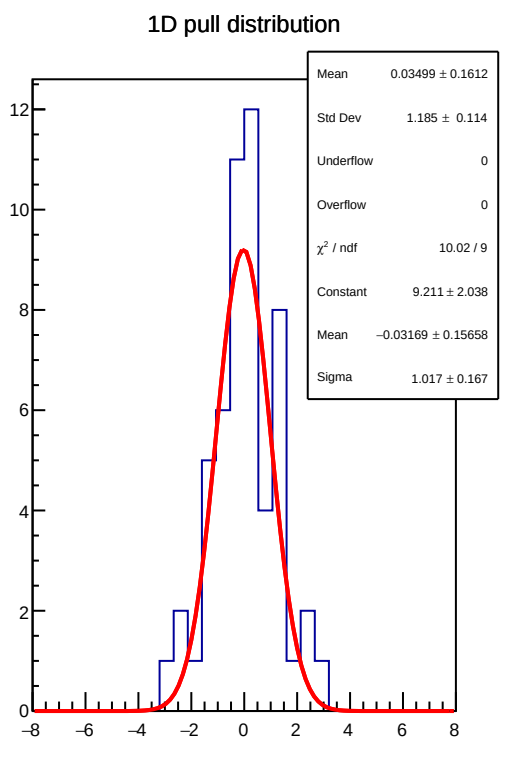

corr_usr_evMon7 RMS (ppm)
RMS (ppm)
44
43
42
41
40
39
38
37
36
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

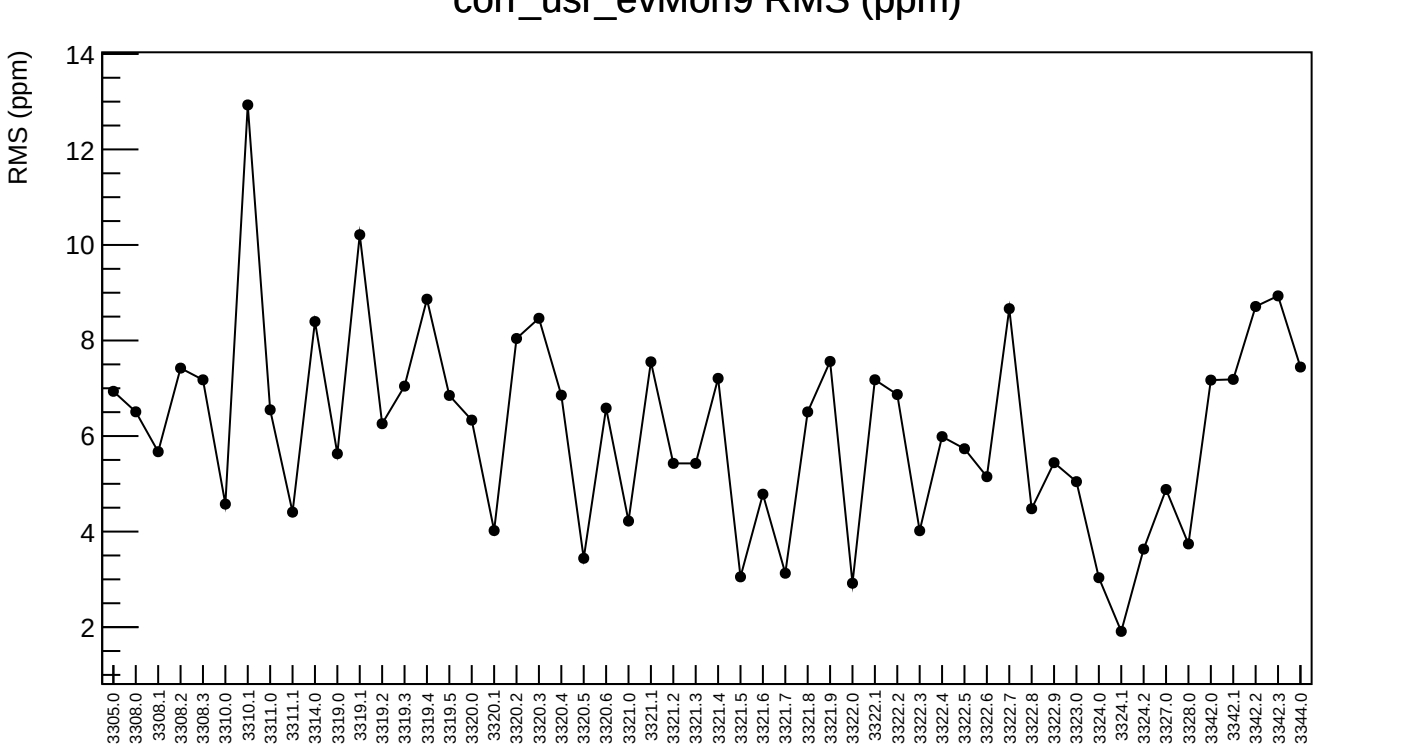

corr_usr_evMon8 (ppb)
χ² / ndf 254.1 / 53
p0 −18.56 ± 8.541

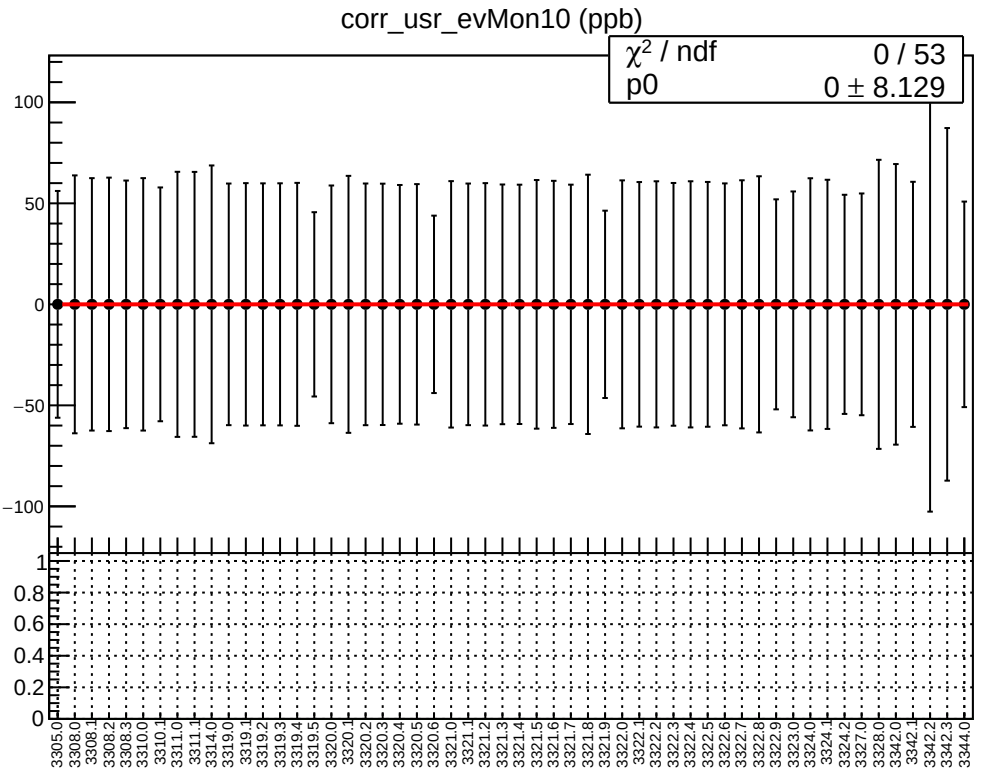

1D pull distribution
Mean −0.001748 ± 0.2952
Std Dev 2.169 ± 0.2087
Underflow 0
Overflow 0
χ² / ndf 4.426 / 15
Constant 4.797 ± 1.005
Mean 0.004559 ± 0.388170
Sigma 2.359 ± 0.484

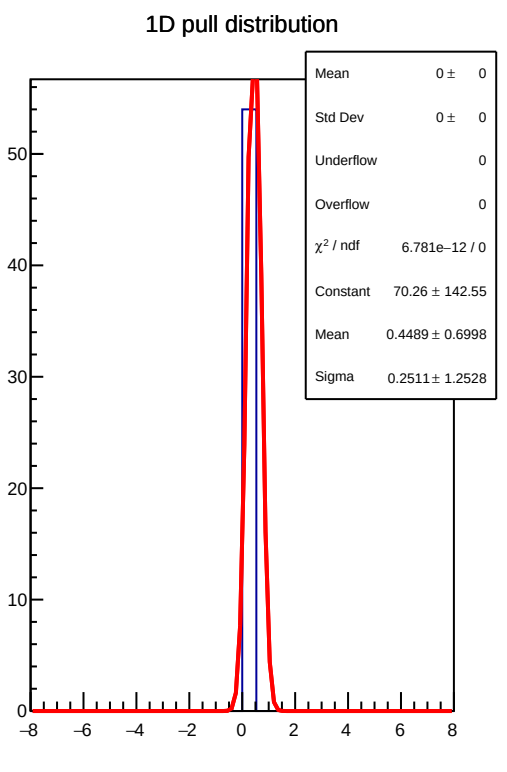

corr_usr_evMon8 RMS (ppm)
RMS (ppm)
18
16
14
12
10
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

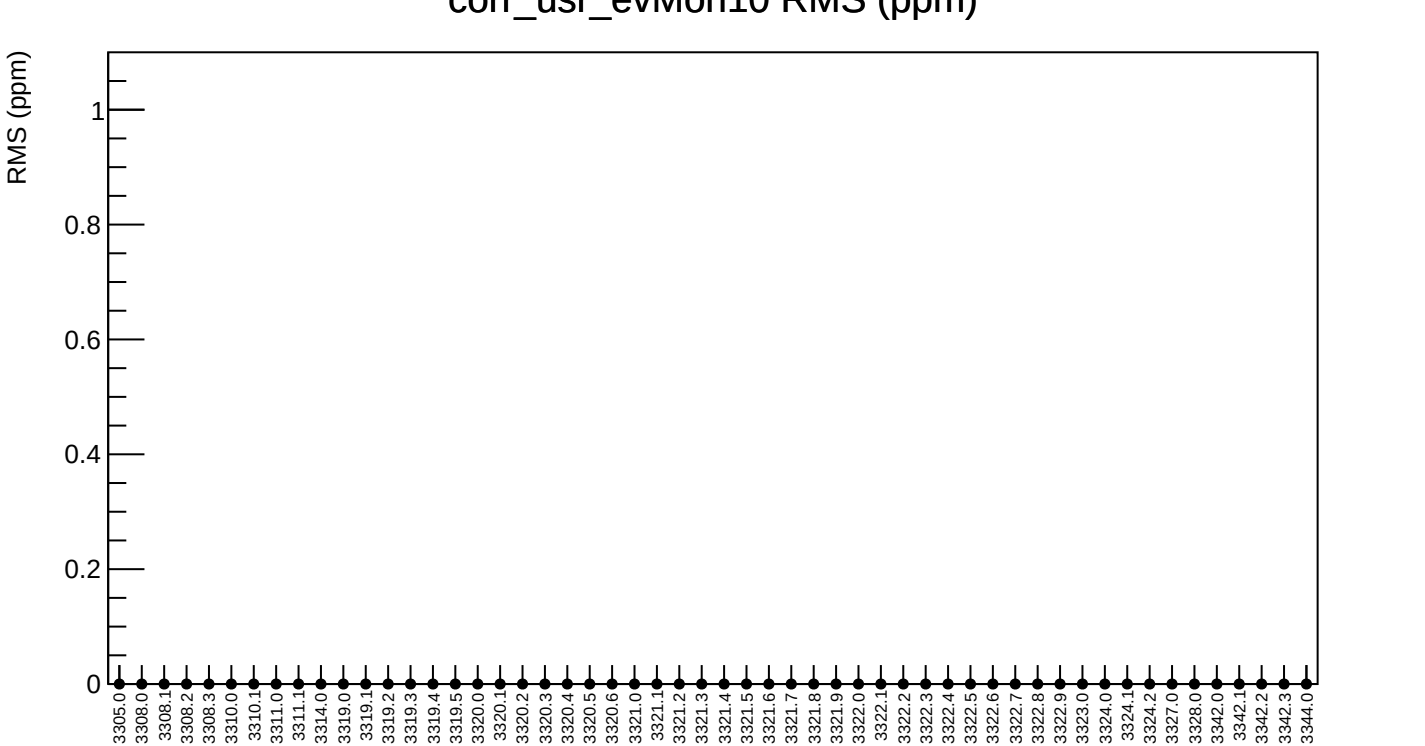

corr_usr_evMon9 (ppb)
χ² / ndf 75.85 / 53
p0 −9.143 ± 7.343
300
200
100
0
−100
−200
3
2
1
0
−1
−2
−3
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

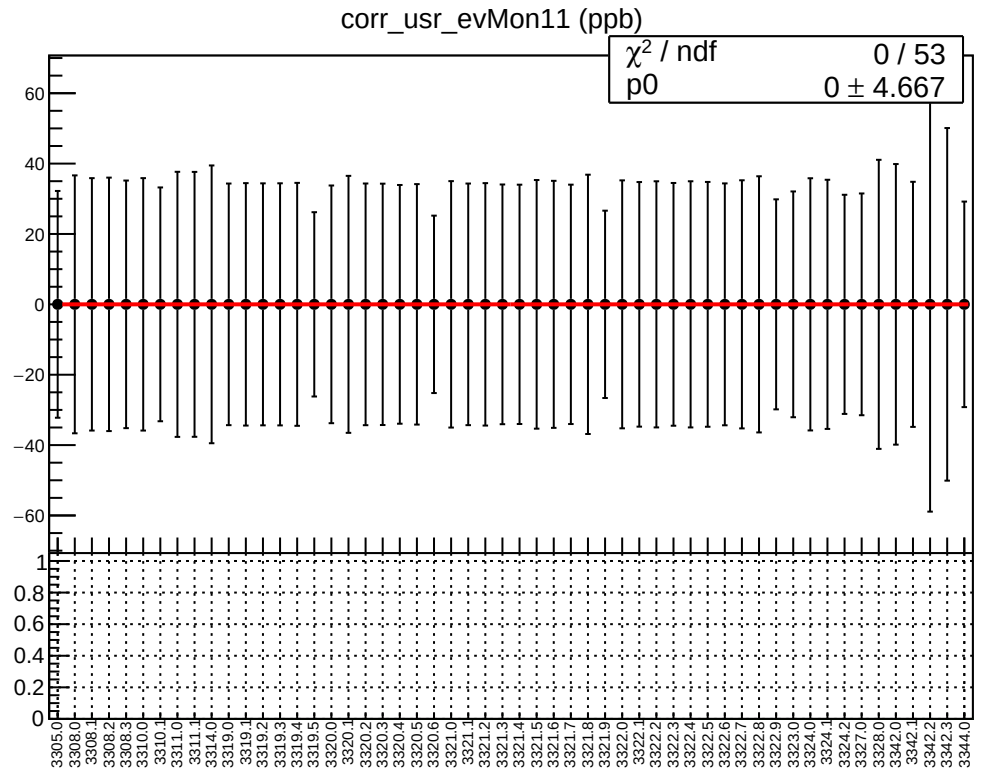

1D pull distribution
Mean 0.03499 ± 0.1612
Std Dev 1.185 ± 0.114
Underflow 0
Overflow 0
χ² / ndf 10.02 / 9
Constant 9.211 ± 2.038
Mean −0.03169 ± 0.15658
Sigma 1.017 ± 0.167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

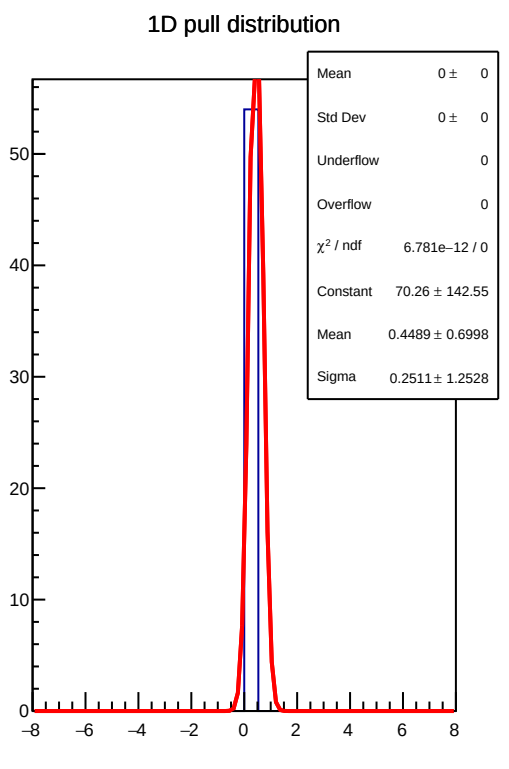

corr_usr_evMon9 RMS (ppm)
RMS (ppm)
14
12
10
8
6
4
2
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0

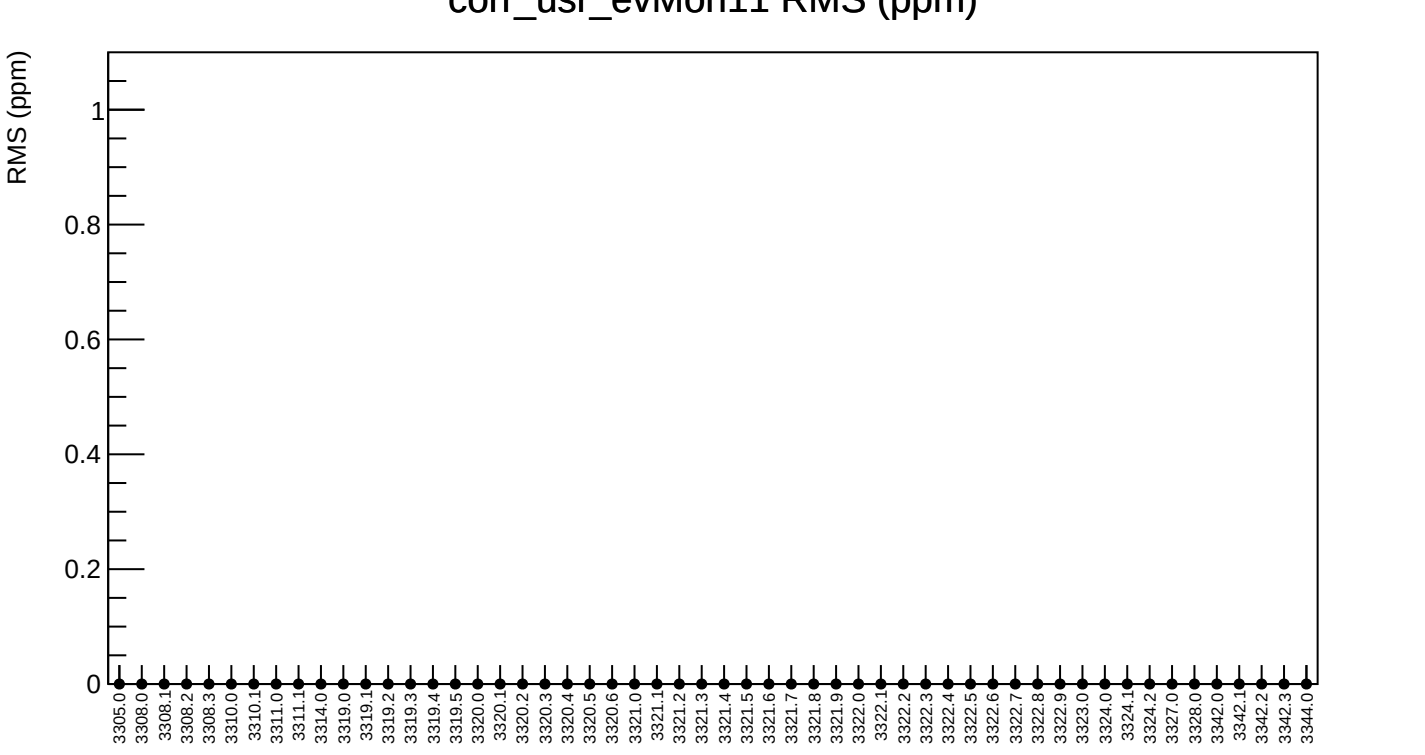

corr_usr_evMon10 (ppb)
χ² / ndf 0 / 53
p0 0 ± 8.129
100
50
0
−50
−100
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0


1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


corr_usr_evMon10 RMS (ppm)
RMS (ppm)
0
0.2
0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0


corr_usr_evMon11 (ppb)
χ² / ndf 0 / 53
p0 0 ± 4.667
60
40
20
0
−20
−40
−60
1
0.8
0.6
0.4
0.2
0
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0


1D pull distribution
Mean 0 ± 0
Std Dev 0 ± 0
Underflow 0
Overflow 0
χ² / ndf 6.781e−12 / 0
Constant 70.26 ± 142.55
Mean 0.4489 ± 0.6998
Sigma 0.2511 ± 1.2528
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


corr_usr_evMon11 RMS (ppm)
RMS (ppm)
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0.4
0.6
0.8
1
3305.0
3308.0
3308.1
3308.2
3308.3
3310.0
3310.1
3311.0
3311.1
3314.0
3319.0
3319.1
3319.2
3319.3
3319.4
3319.5
3320.0
3320.1
3320.2
3320.3
3320.4
3320.5
3320.6
3321.0
3321.1
3321.2
3321.3
3321.4
3321.5
3321.6
3321.7
3321.8
3321.9
3322.0
3322.1
3322.2
3322.3
3322.4
3322.5
3322.6
3322.7
3322.8
3322.9
3323.0
3324.0
3324.1
3324.2
3327.0
3328.0
3342.0
3342.1
3342.2
3342.3
3344.0