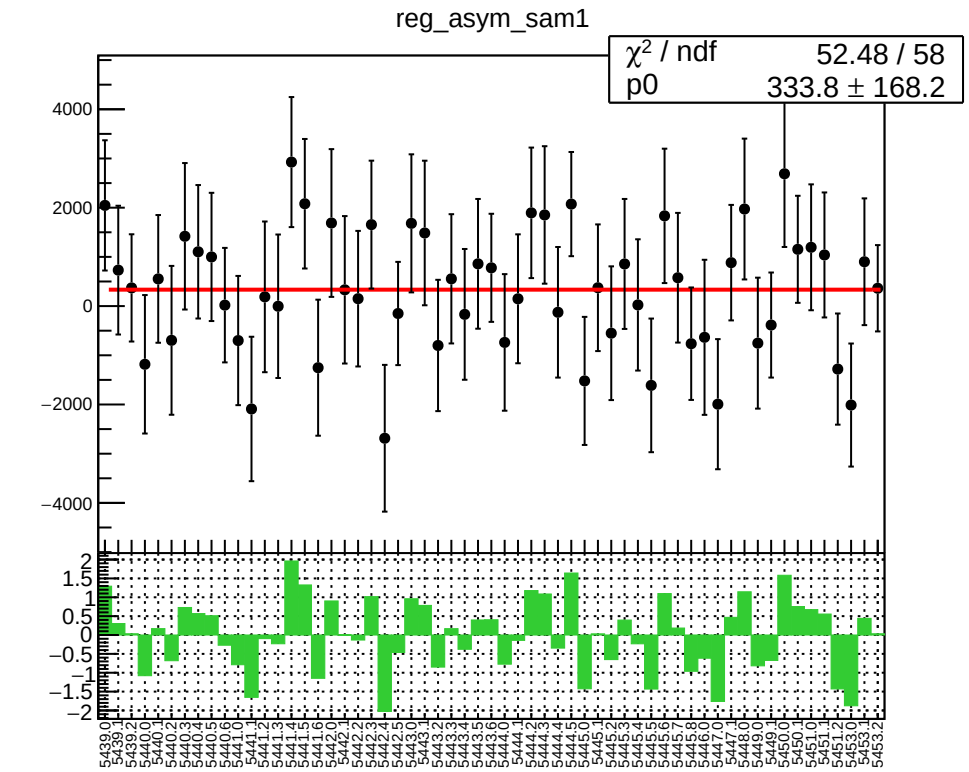
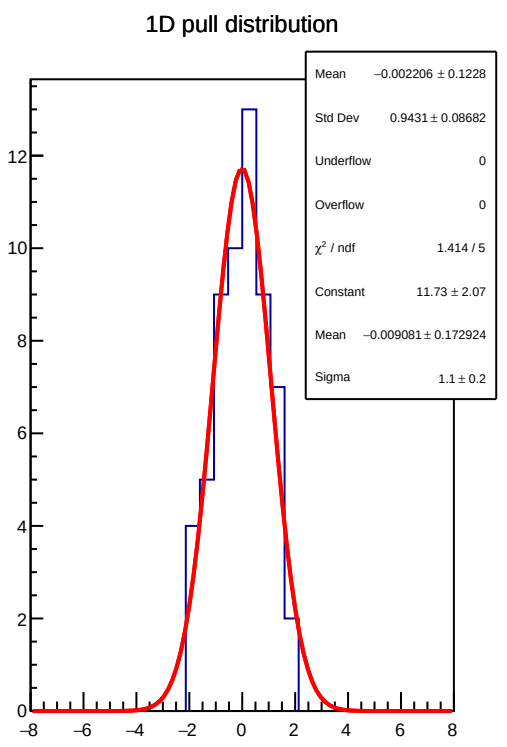
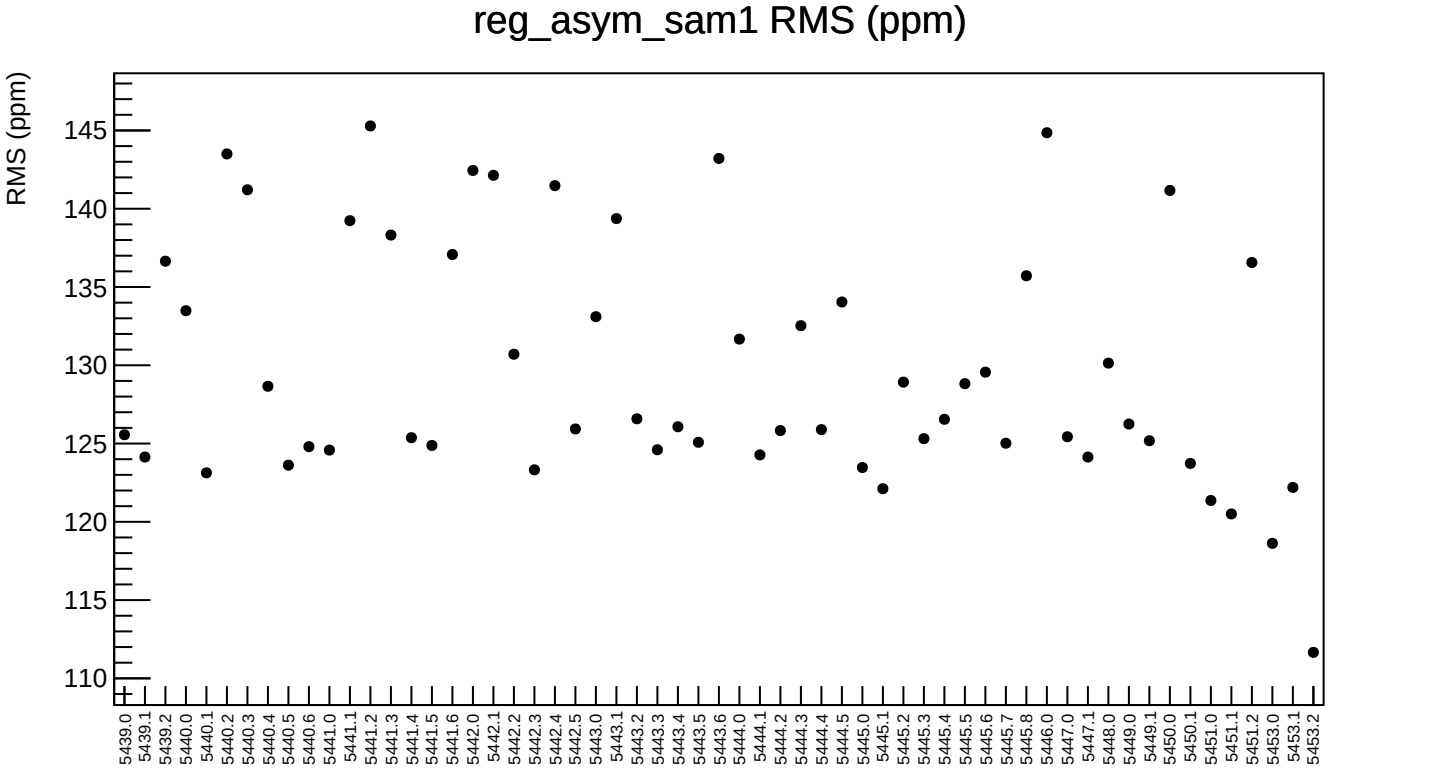
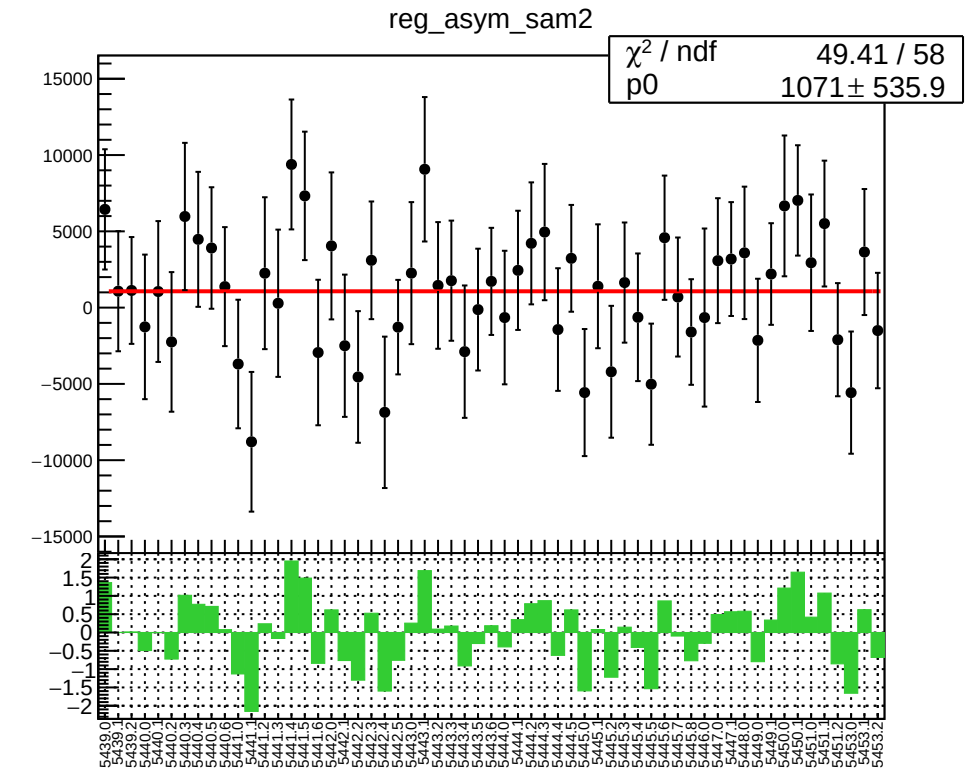
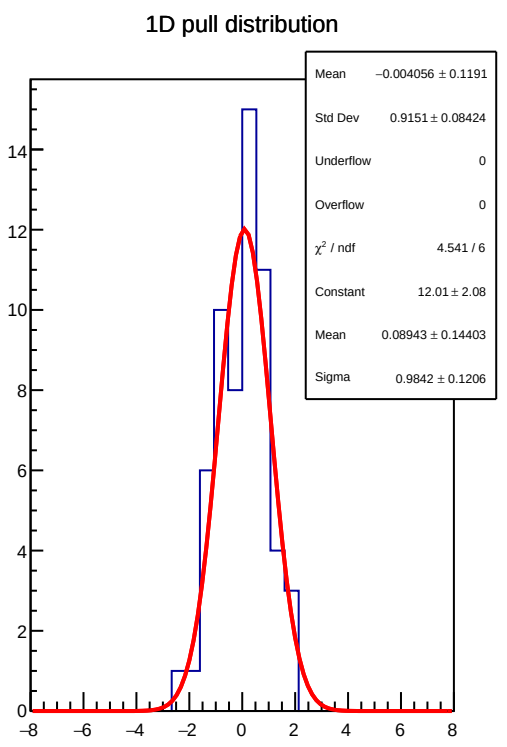
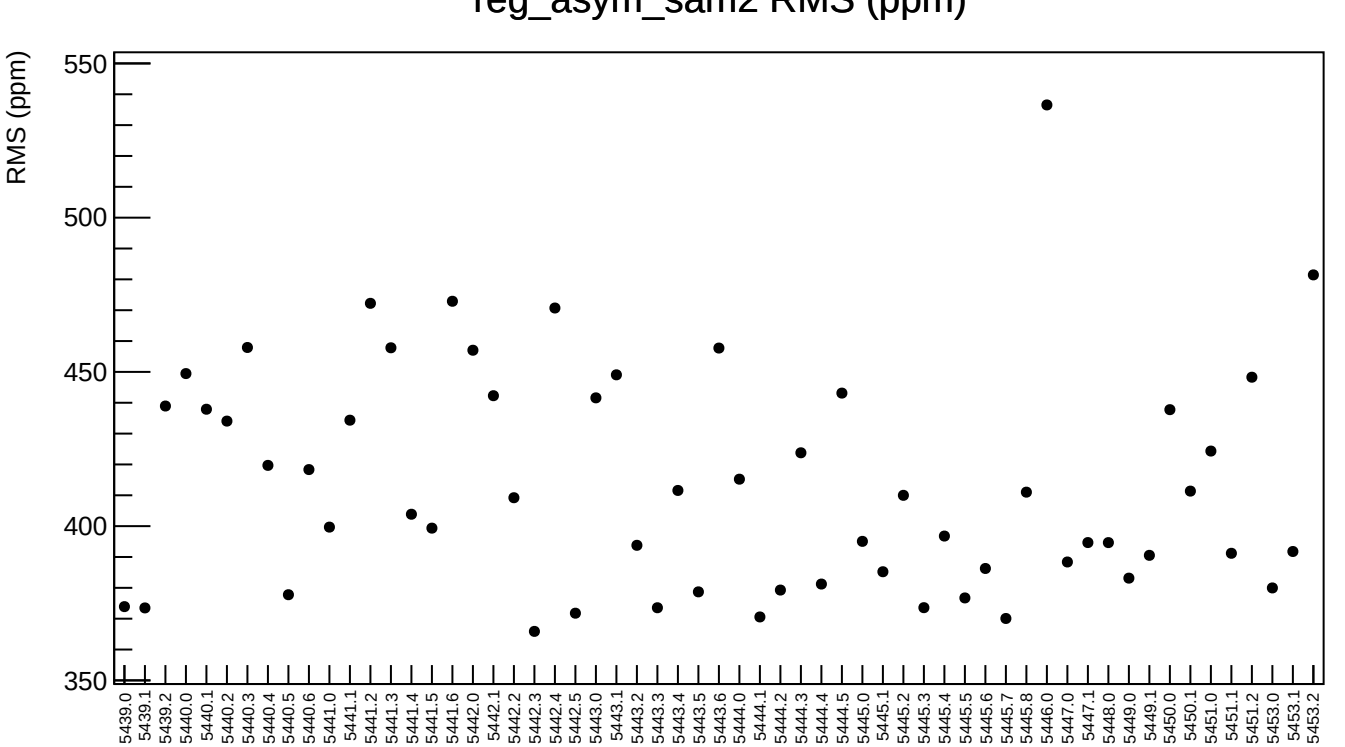

reg_asym_sam1
χ² / ndf 52.48 / 58
p0 333.8 ± 168.2

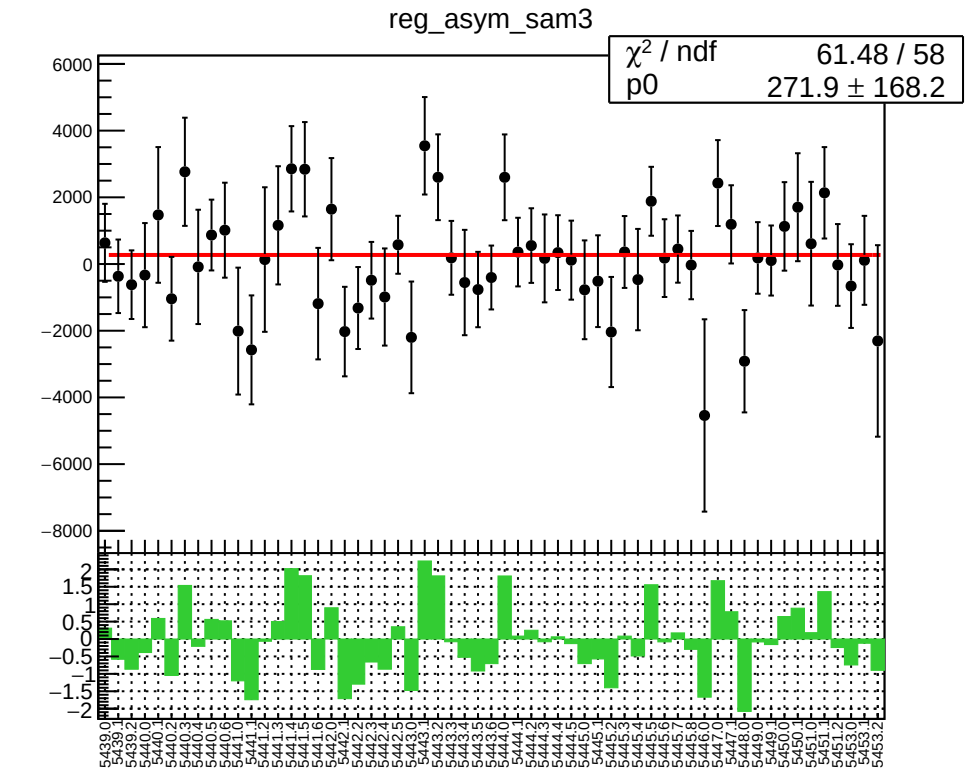

1D pull distribution
Mean −0.002206 ± 0.1228
Std Dev 0.9431 ± 0.08682
Underflow 0
Overflow 0
χ² / ndf 1.414 / 5
Constant 11.73 ± 2.07
Mean −0.009081 ± 0.172924
Sigma 1.1 ± 0.2

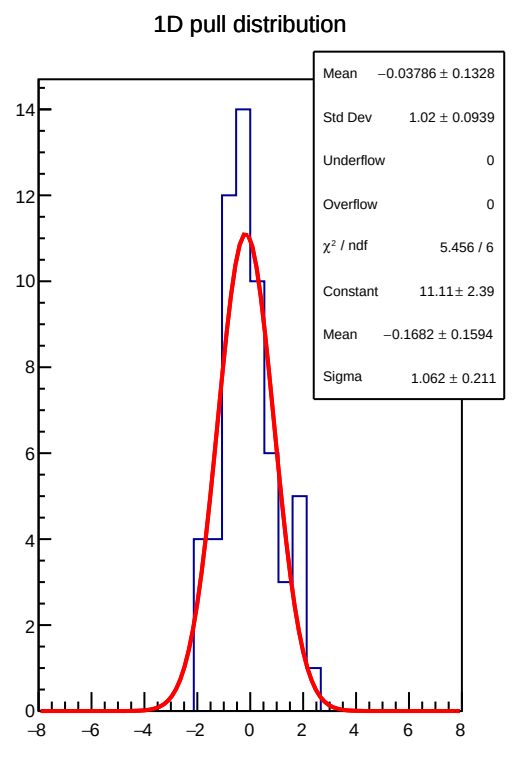

reg_asym_sam1 RMS (ppm)
RMS (ppm)
145
140
135
130
125
120
115
110
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

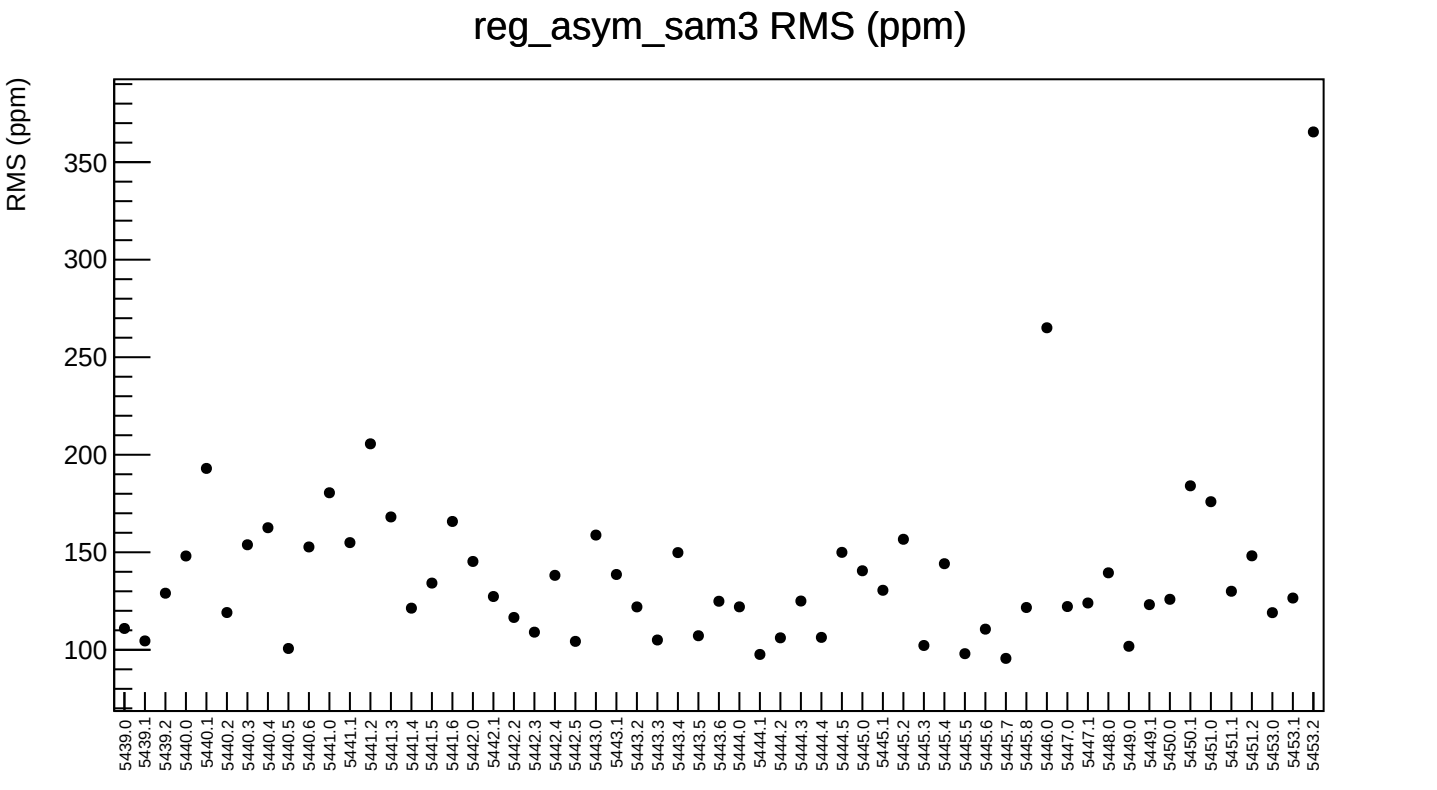

reg_asym_sam2
χ² / ndf 49.41 / 58
p0 1071 ± 535.9

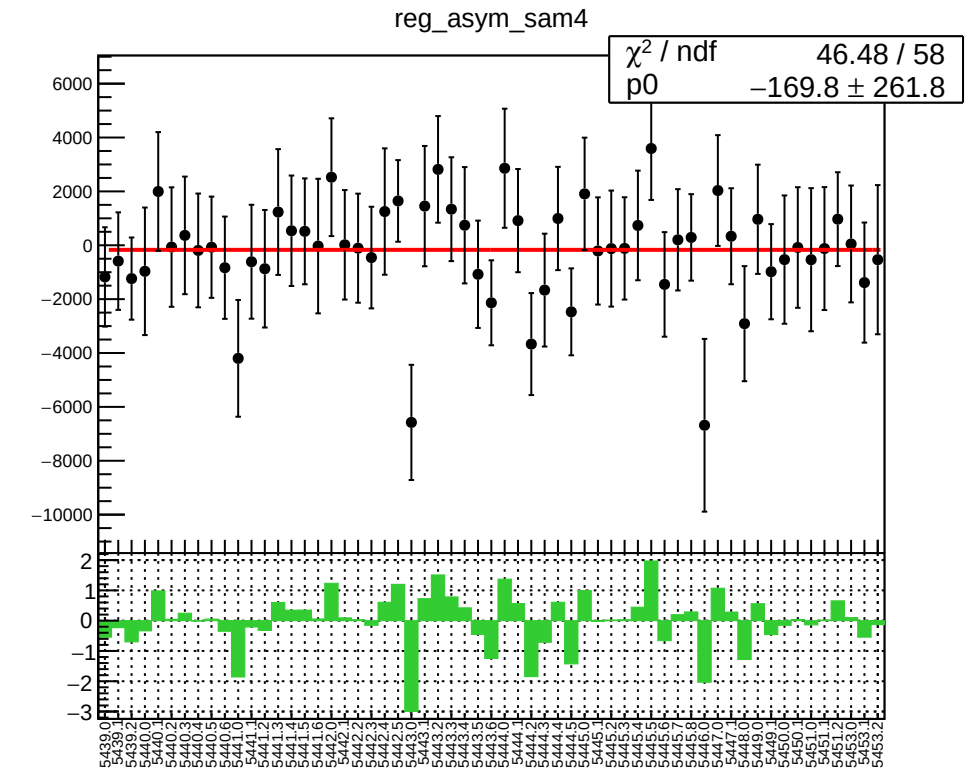

1D pull distribution
Mean −0.004056 ± 0.1191
Std Dev 0.9151 ± 0.08424
Underflow 0
Overflow 0
χ² / ndf 4.541 / 6
Constant 12.01 ± 2.08
Mean 0.08943 ± 0.14403
Sigma 0.9842 ± 0.1206

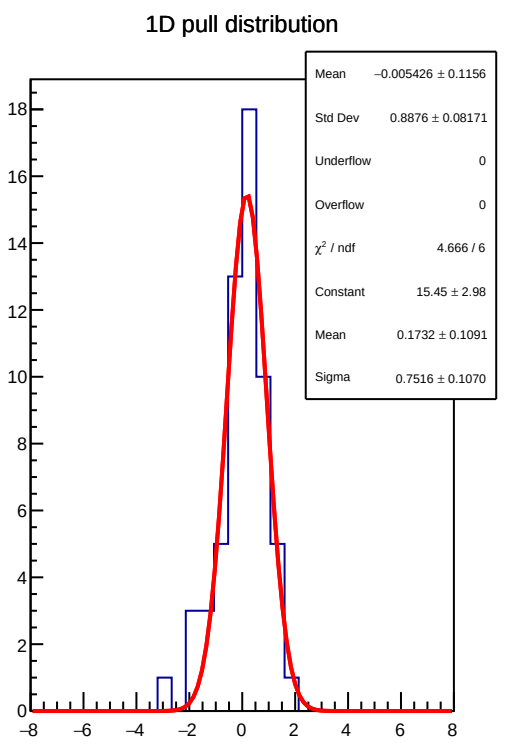

reg_asym_sam2 RMS (ppm)
RMS (ppm)
550
500
450
400
350
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

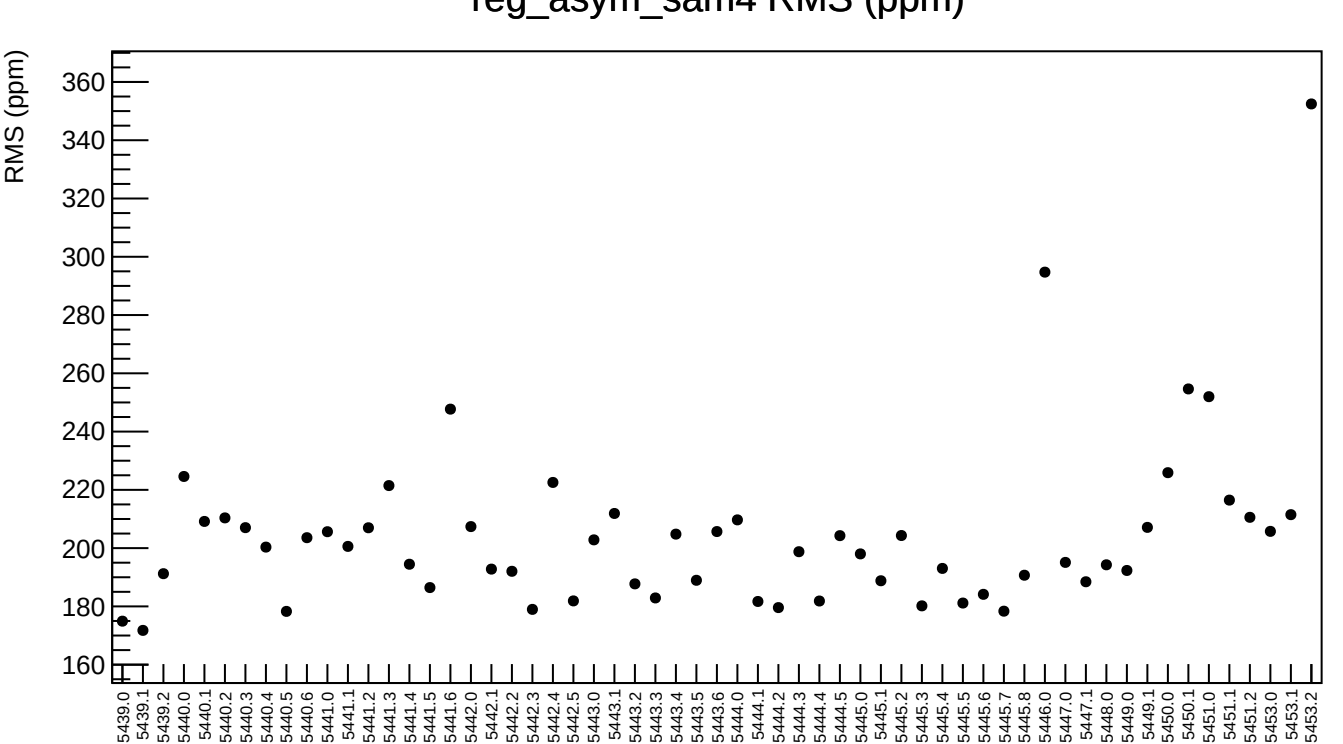

reg_asym_sam3
χ² / ndf 61.48 / 58
p0 271.9 ± 168.2

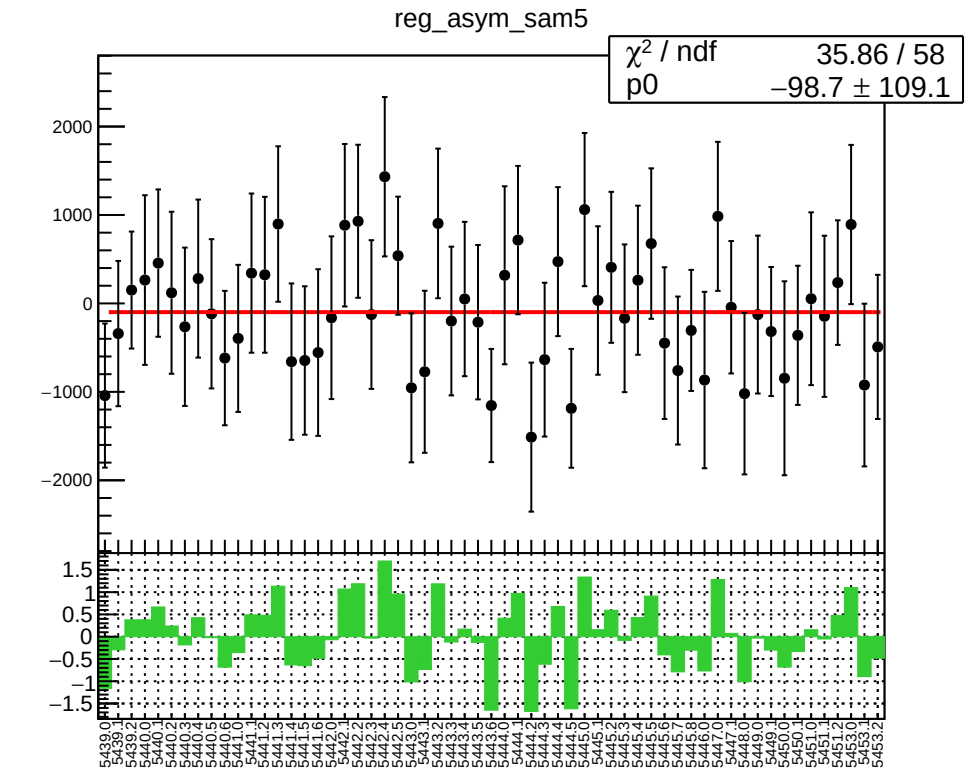

1D pull distribution
Mean −0.03786 ± 0.1328
Std Dev 1.02 ± 0.0939
Underflow 0
Overflow 0
χ² / ndf 5.456 / 6
Constant 11.11± 2.39
Mean −0.1682 ± 0.1594
Sigma 1.062 ± 0.211

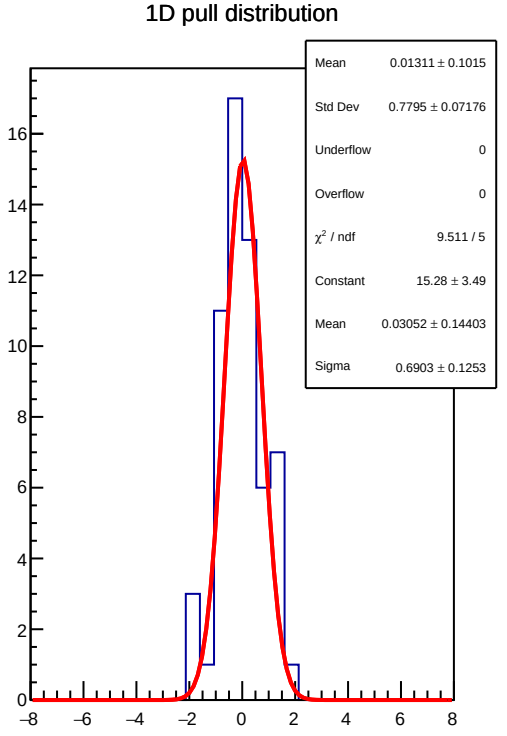

reg_asym_sam3 RMS (ppm)
RMS (ppm)
100
150
200
250
300
350
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

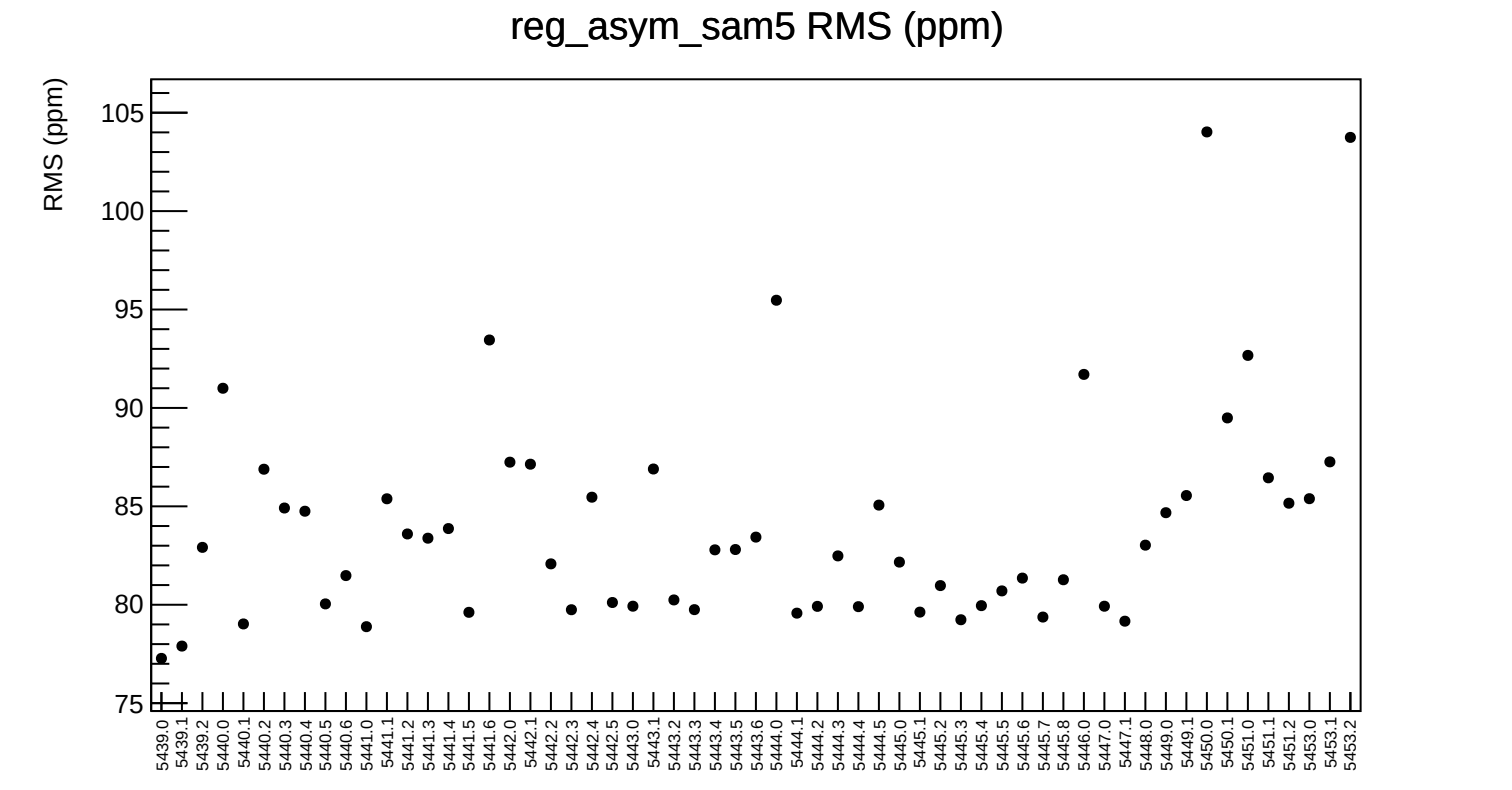

reg_asym_sam4
χ² / ndf 46.48 / 58
p0 −169.8 ± 261.8

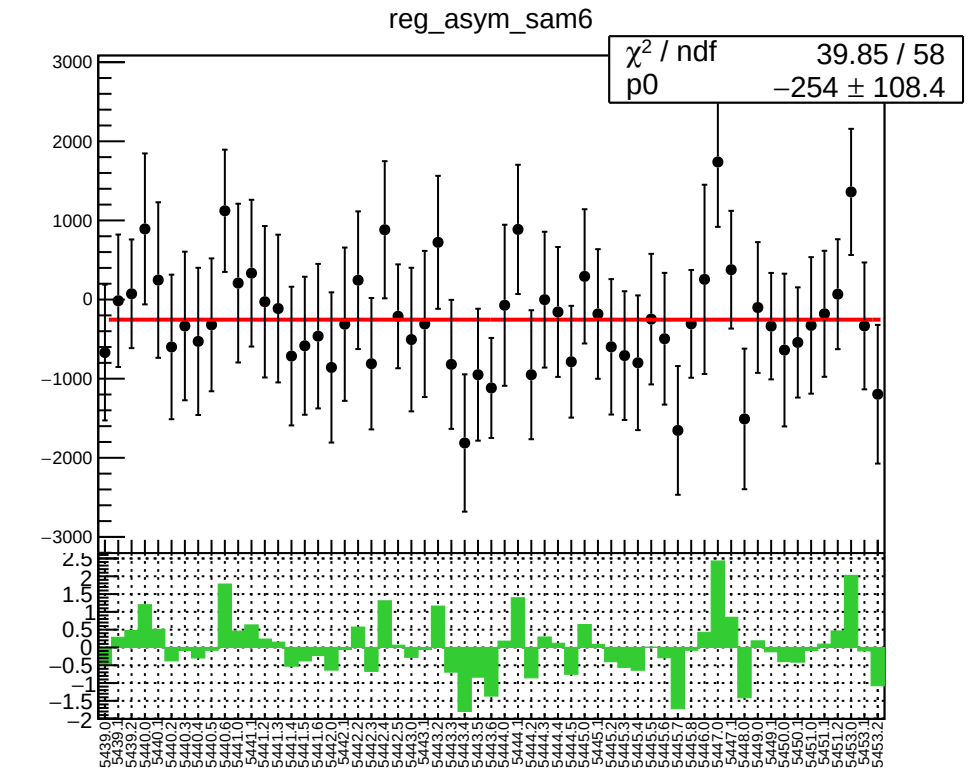

1D pull distribution
Mean −0.005426 ± 0.1156
Std Dev 0.8876 ± 0.08171
Underflow 0
Overflow 0
χ² / ndf 4.666 / 6
Constant 15.45 ± 2.98
Mean 0.1732 ± 0.1091
Sigma 0.7516 ± 0.1070

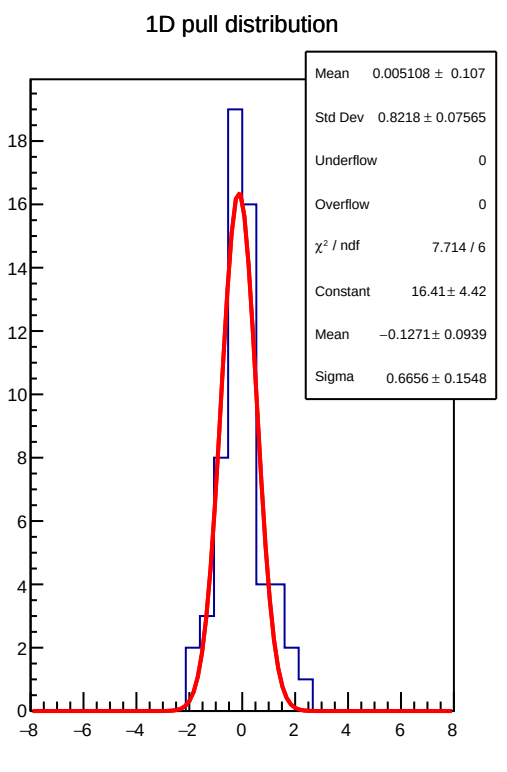

reg_asym_sam4 RMS (ppm)
RMS (ppm)
360
340
320
300
280
260
240
220
200
180
160
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

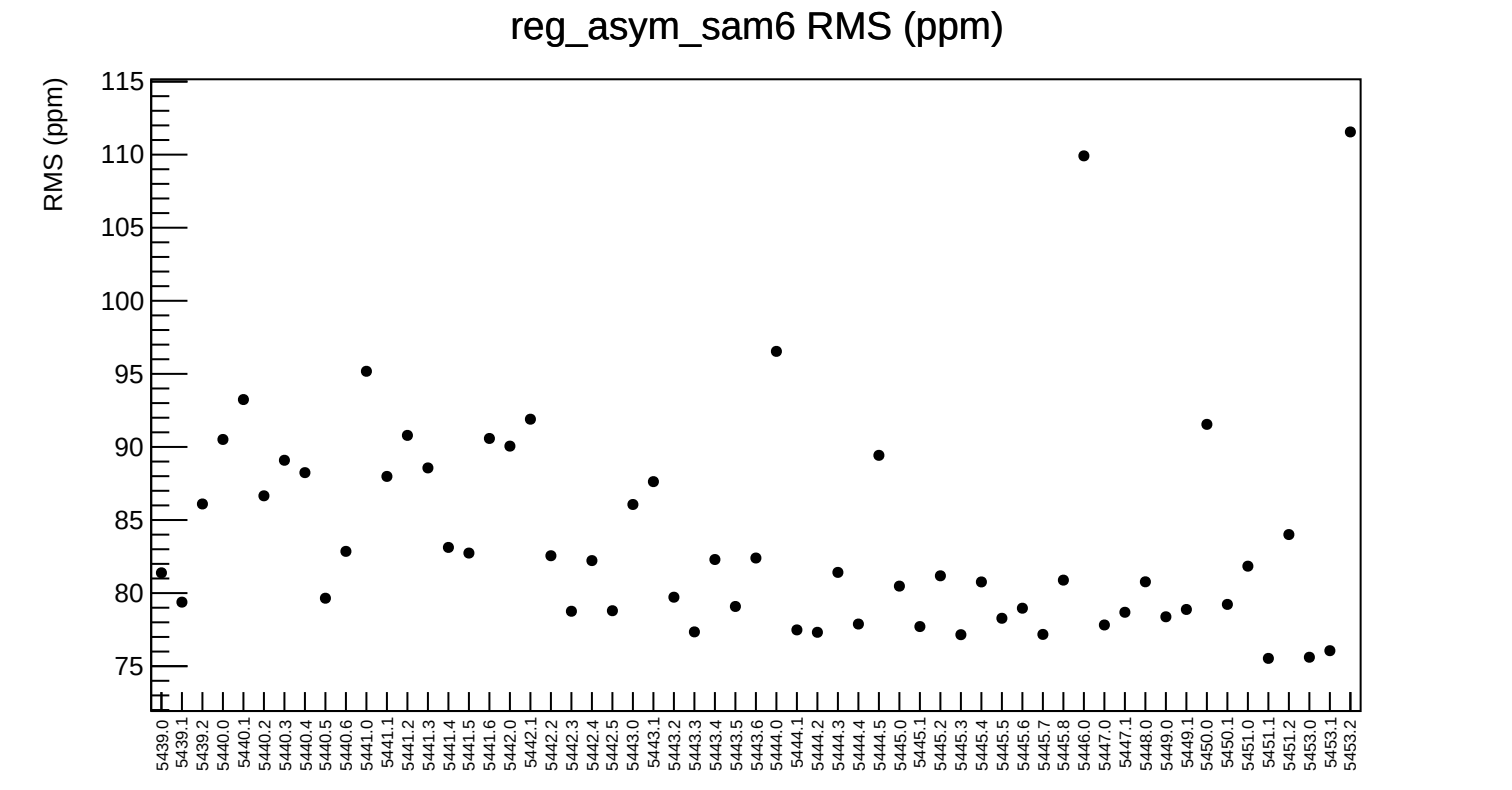

reg_asym_sam5
χ² / ndf 35.86 / 58
p0 −98.7 ± 109.1
2000
1000
0
−1000
−2000
1.5
1
0.5
0
−0.5
−1
−1.5
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5440.7
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5443.7
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

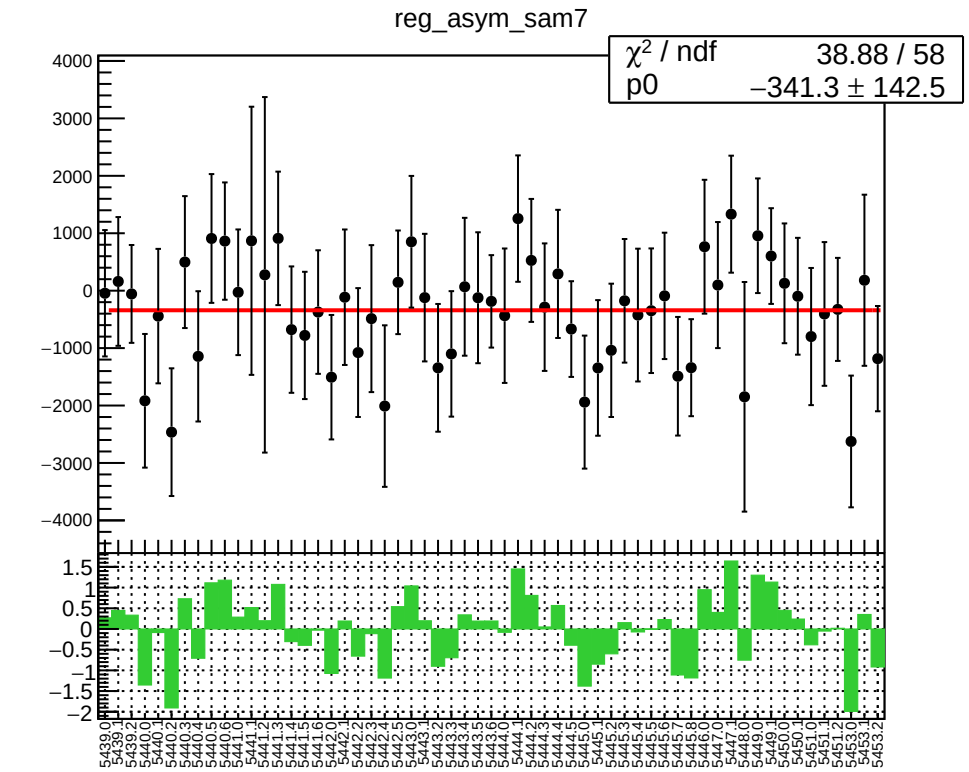

1D pull distribution
Mean 0.01311 ± 0.1015
Std Dev 0.7795 ± 0.07176
Underflow 0
Overflow 0
χ² / ndf 9.511 / 5
Constant 15.28 ± 3.49
Mean 0.03052 ± 0.14403
Sigma 0.6903 ± 0.1253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

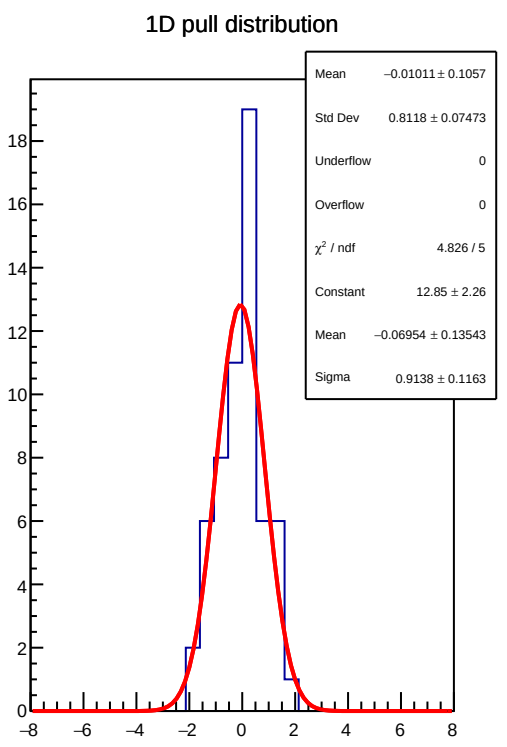

reg_asym_sam5 RMS (ppm)
RMS (ppm)
105
100
95
90
85
80
75
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

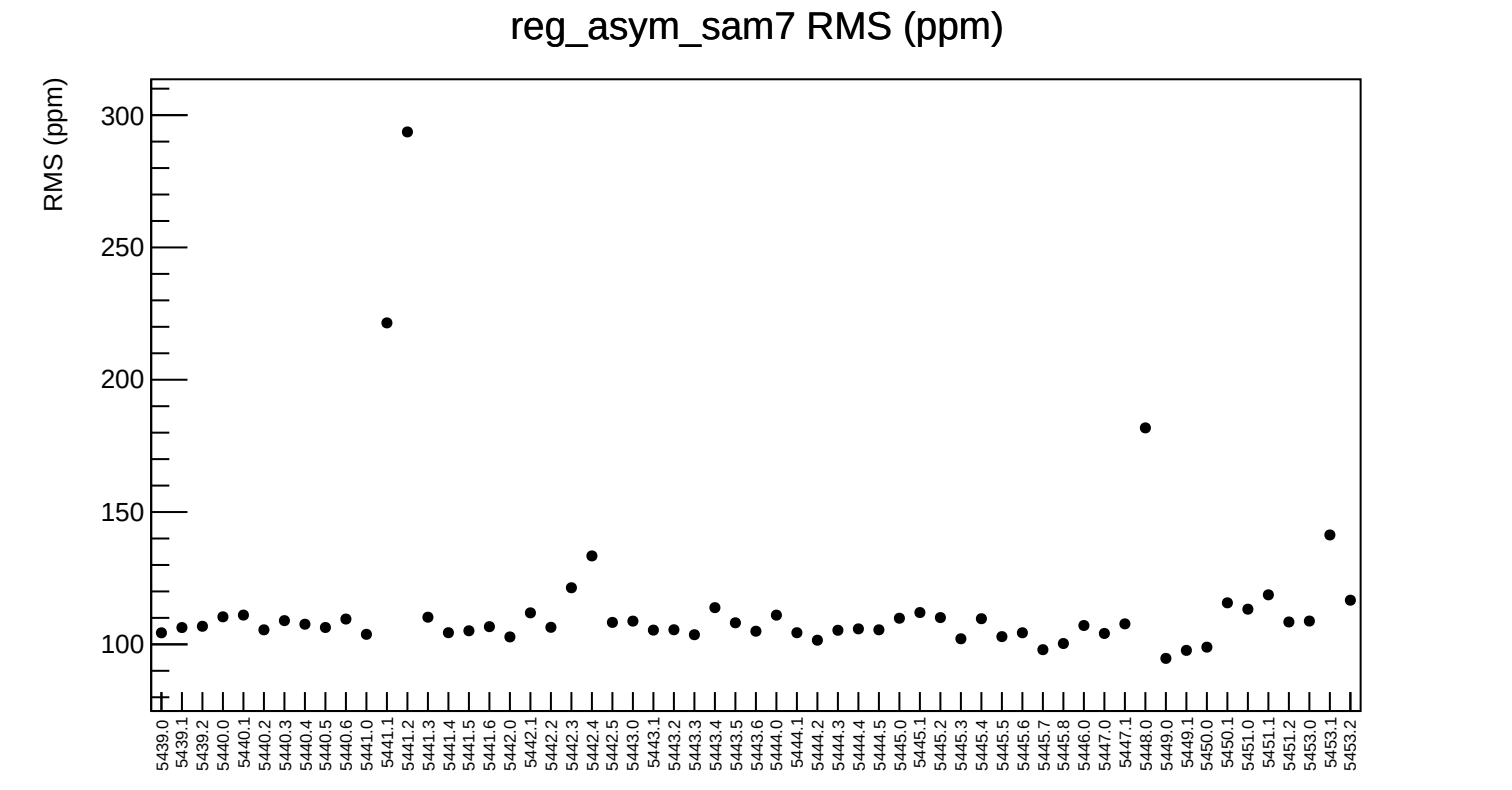

reg_asym_sam6
χ² / ndf 39.85 / 58
p0 −254 ± 108.4

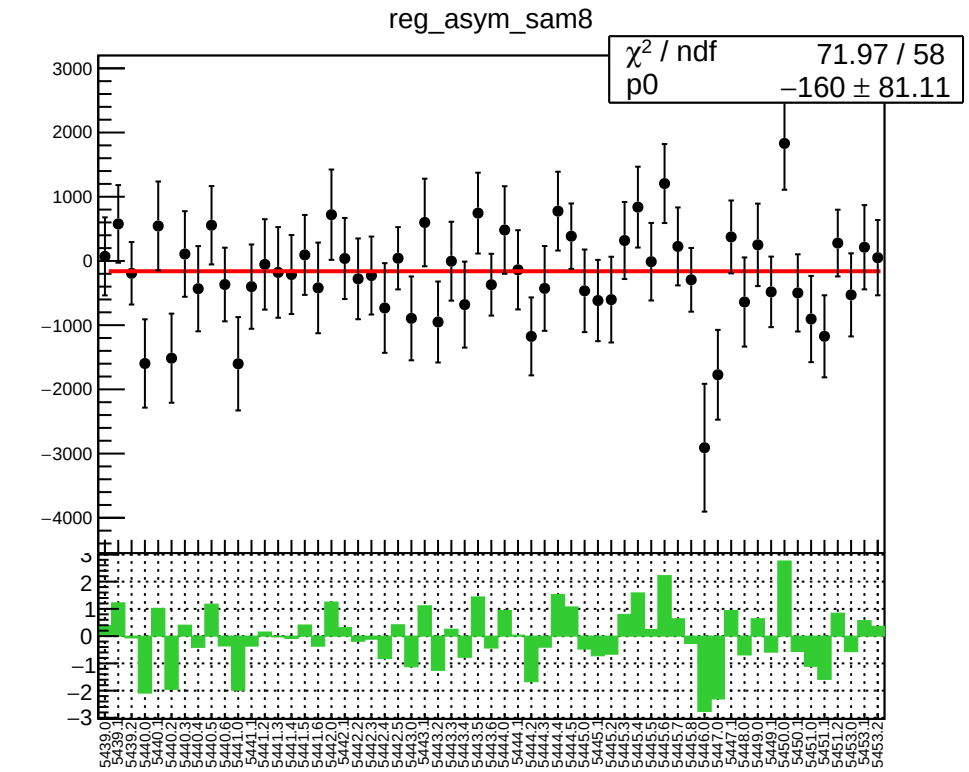

1D pull distribution
Mean 0.005108 ± 0.107
Std Dev 0.8218 ± 0.07565
Underflow 0
Overflow 0
χ² / ndf 7.714 / 6
Constant 16.41 ± 4.42
Mean −0.1271 ± 0.0939
Sigma 0.6656 ± 0.1548

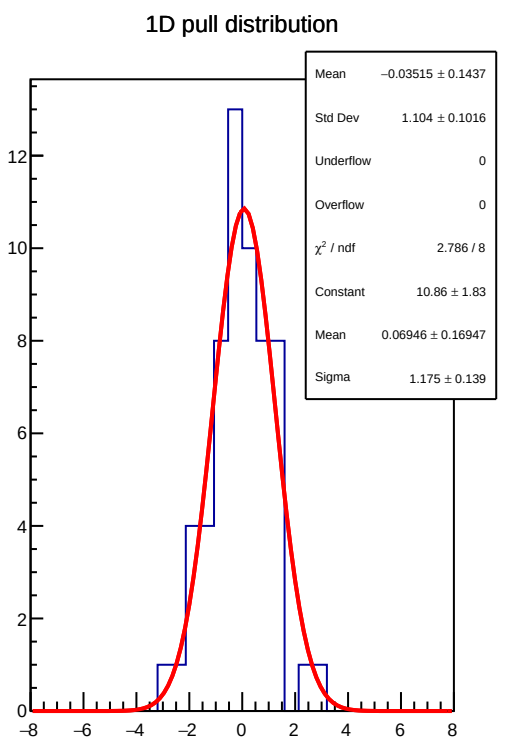

reg_asym_sam6 RMS (ppm)
RMS (ppm)
115
110
105
100
95
90
85
80
75
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

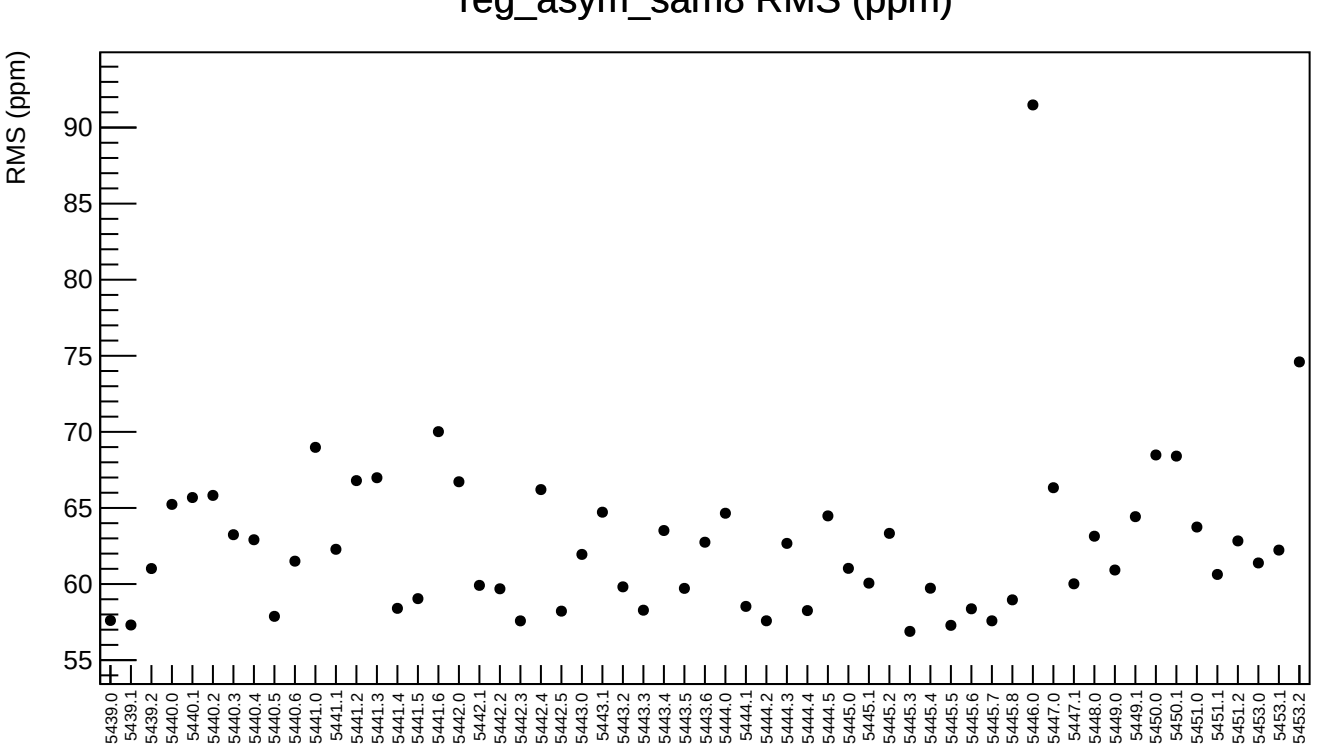

reg_asym_sam7
χ² / ndf 38.88 / 58
p0 −341.3 ± 142.5

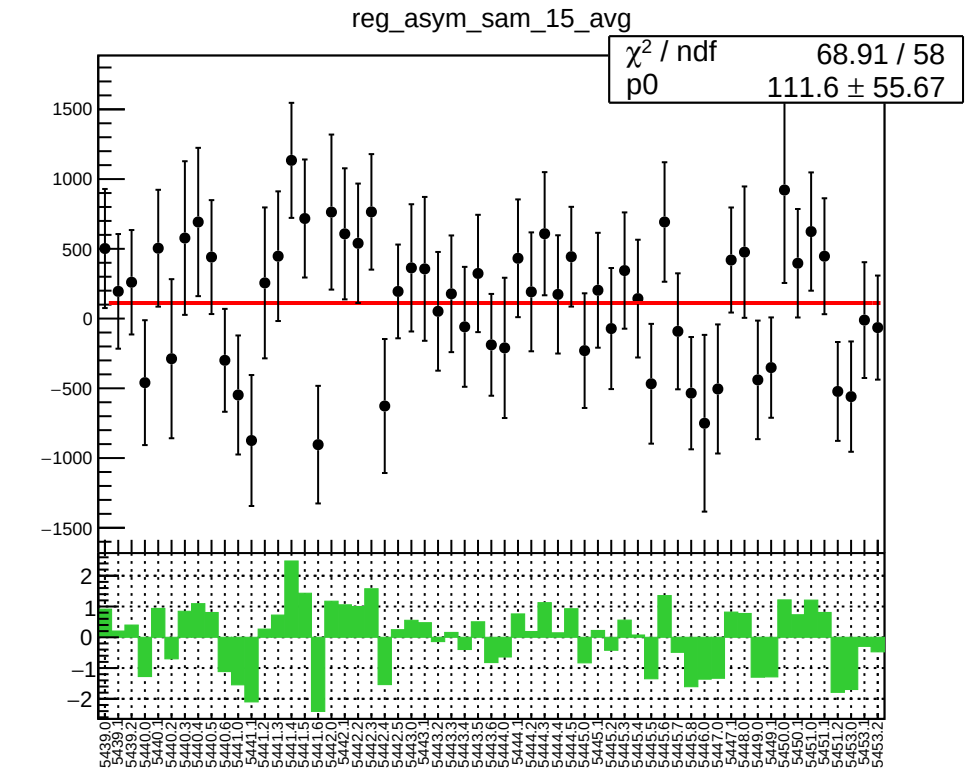

1D pull distribution
Mean −0.01011 ± 0.1057
Std Dev 0.8118 ± 0.07473
Underflow 0
Overflow 0
χ² / ndf 4.826 / 5
Constant 12.85 ± 2.26
Mean −0.06954 ± 0.13543
Sigma 0.9138 ± 0.1163

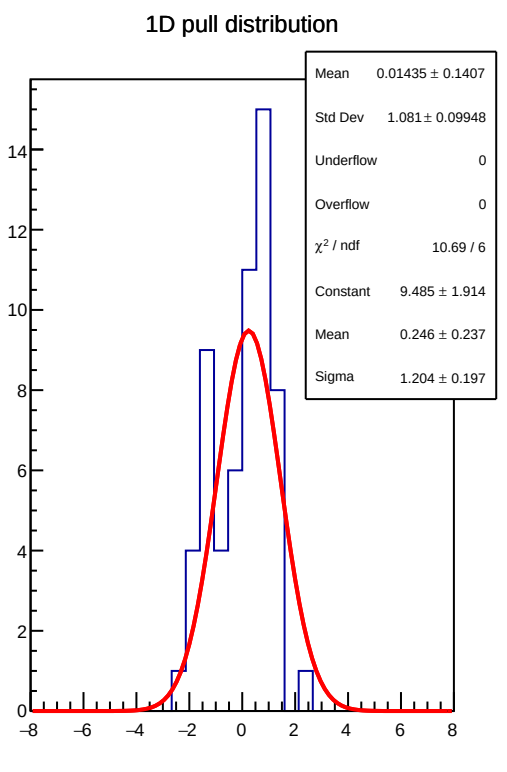

reg_asym_sam7 RMS (ppm)
RMS (ppm)
300
250
200
150
100
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

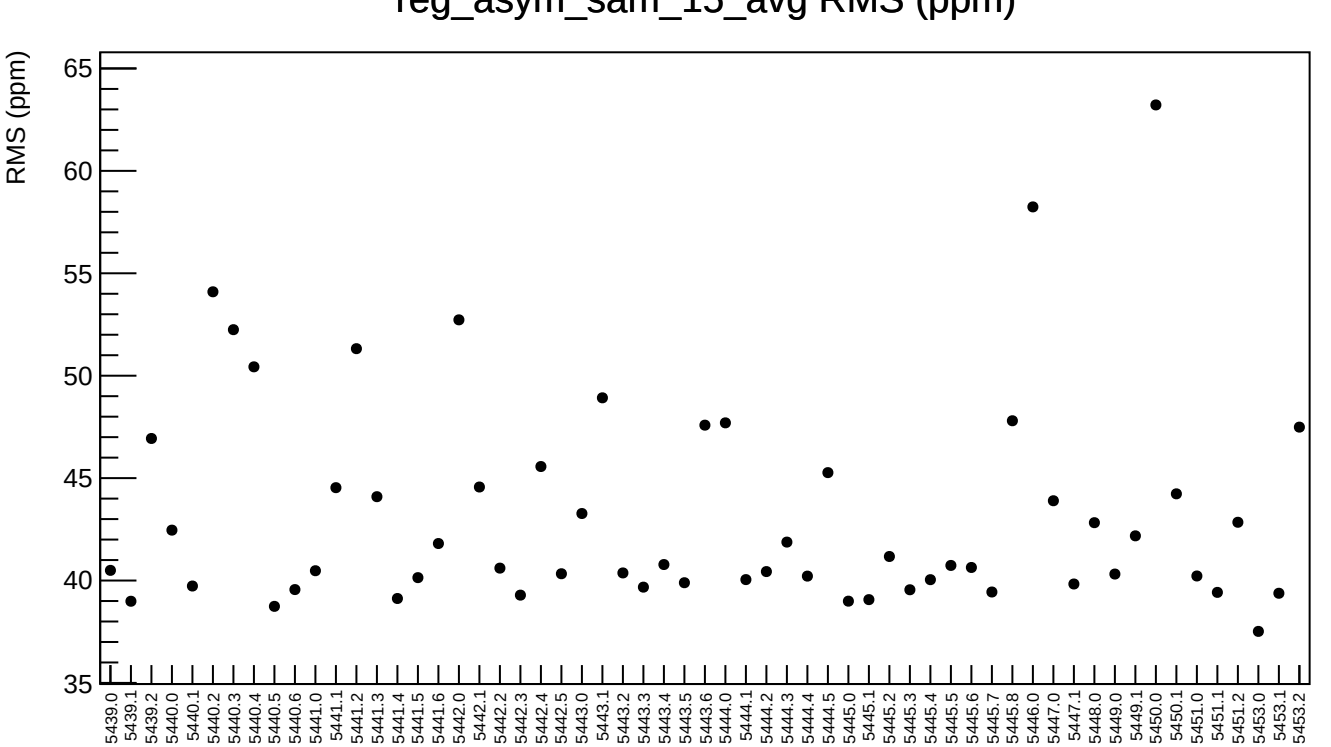

reg_asym_sam8
χ² / ndf 71.97 / 58
p0 −160 ± 81.11

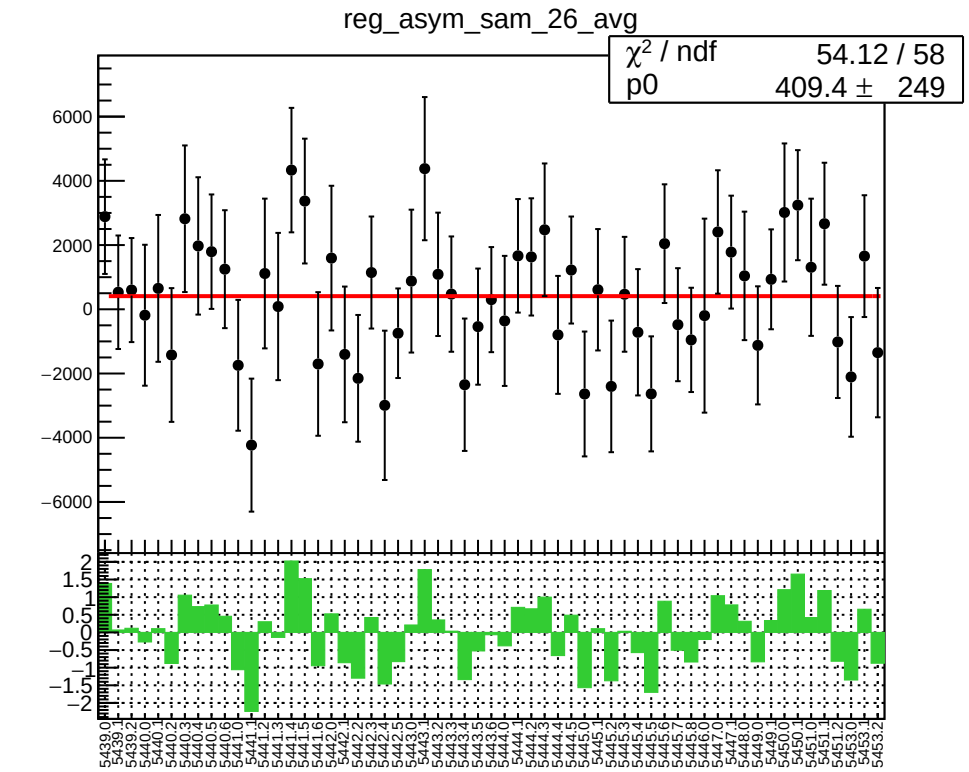

1D pull distribution
Mean −0.03515 ± 0.1437
Std Dev 1.104 ± 0.1016
Underflow 0
Overflow 0
χ² / ndf 2.786 / 8
Constant 10.86 ± 1.83
Mean 0.06946 ± 0.16947
Sigma 1.175 ± 0.139

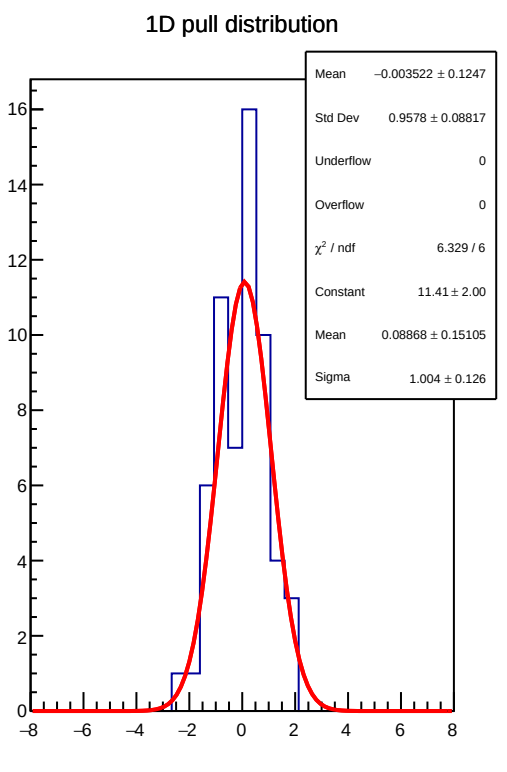

reg_asym_sam8 RMS (ppm)
RMS (ppm)
55
60
65
70
75
80
85
90
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

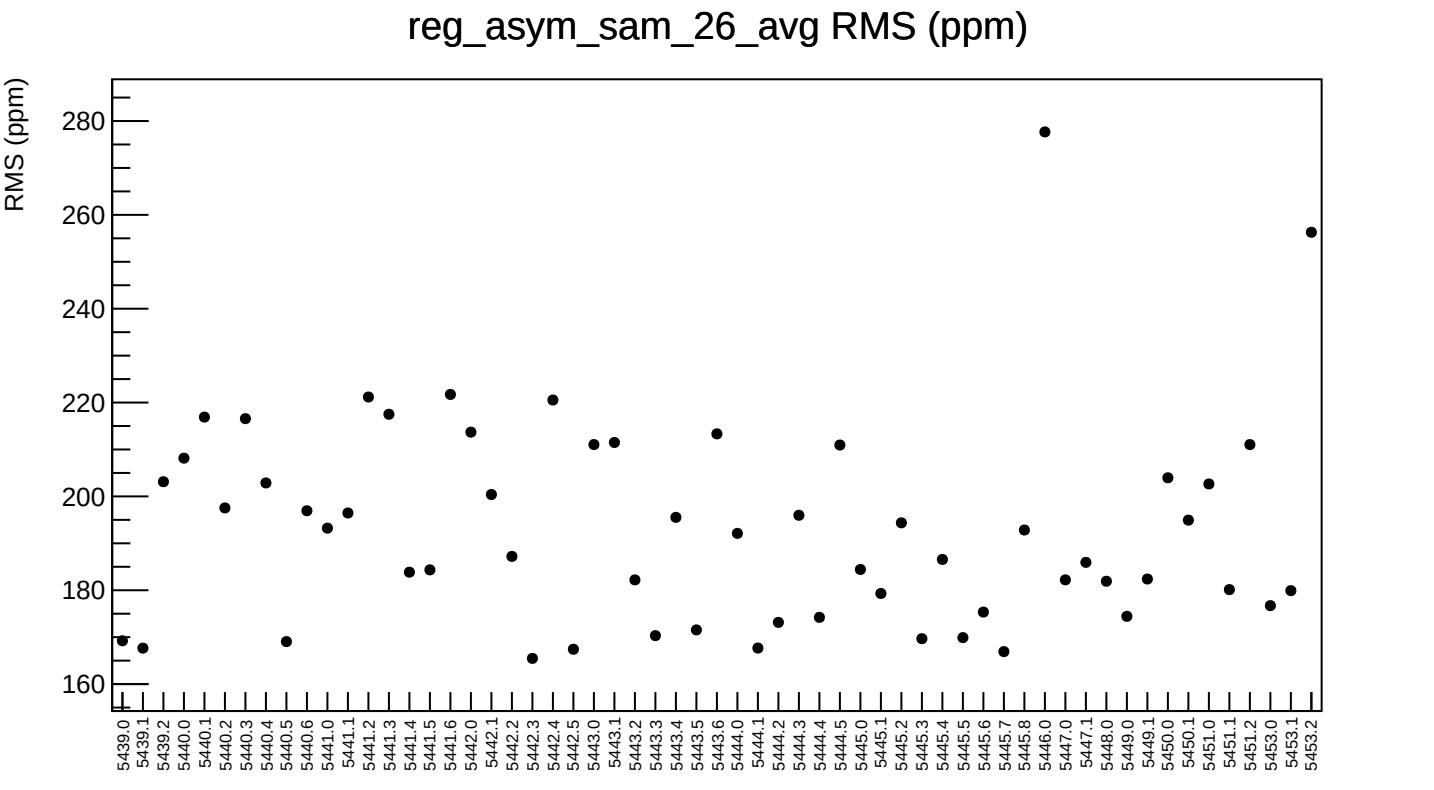

reg_asym_sam_15_avg
χ² / ndf 68.91 / 58
p0 111.6 ± 55.67

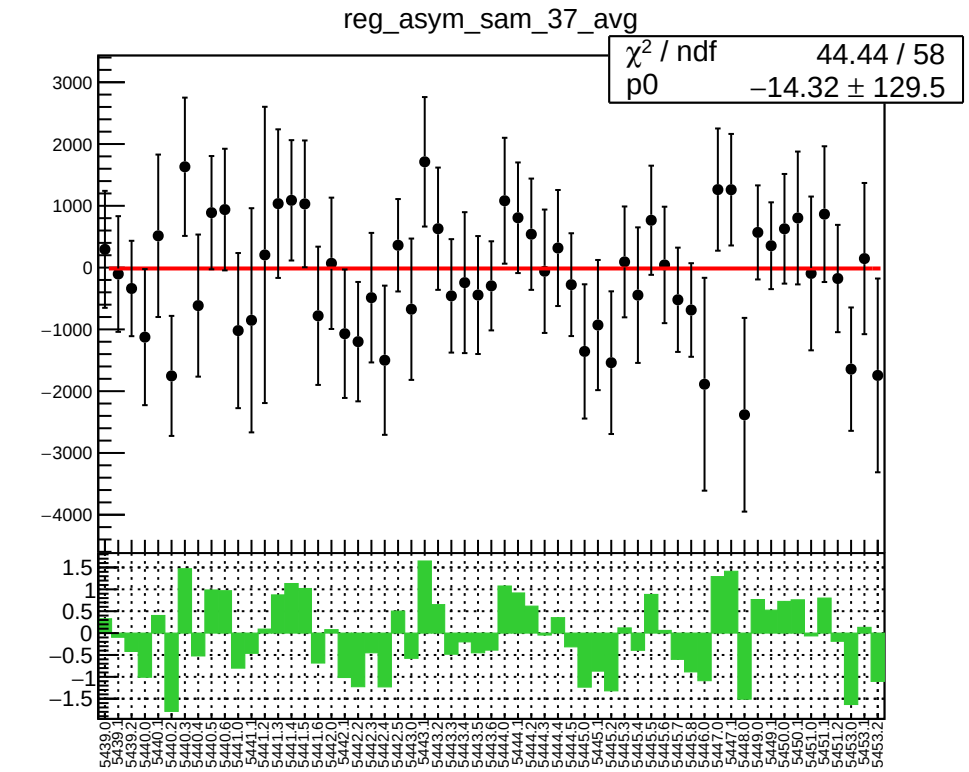

1D pull distribution
Mean 0.01435 ± 0.1407
Std Dev 1.081 ± 0.09948
Underflow 0
Overflow 0
χ² / ndf 10.69 / 6
Constant 9.485 ± 1.914
Mean 0.246 ± 0.237
Sigma 1.204 ± 0.197

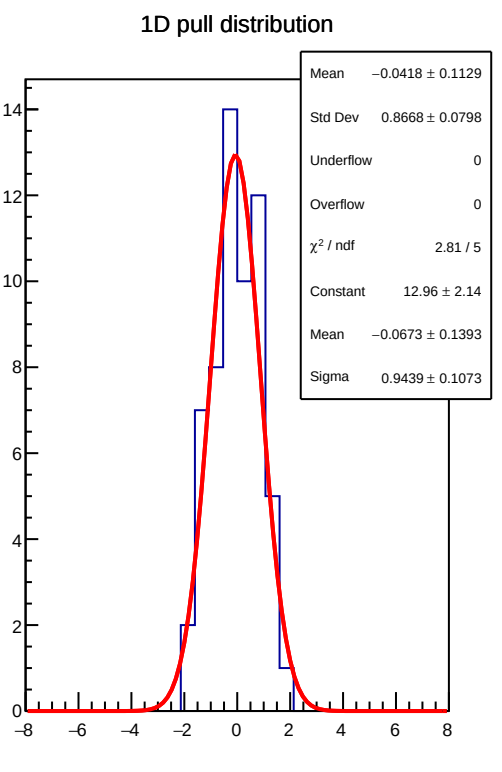

reg_asym_sam_15_avg RMS (ppm)
RMS (ppm)
65
60
55
50
45
40
35
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

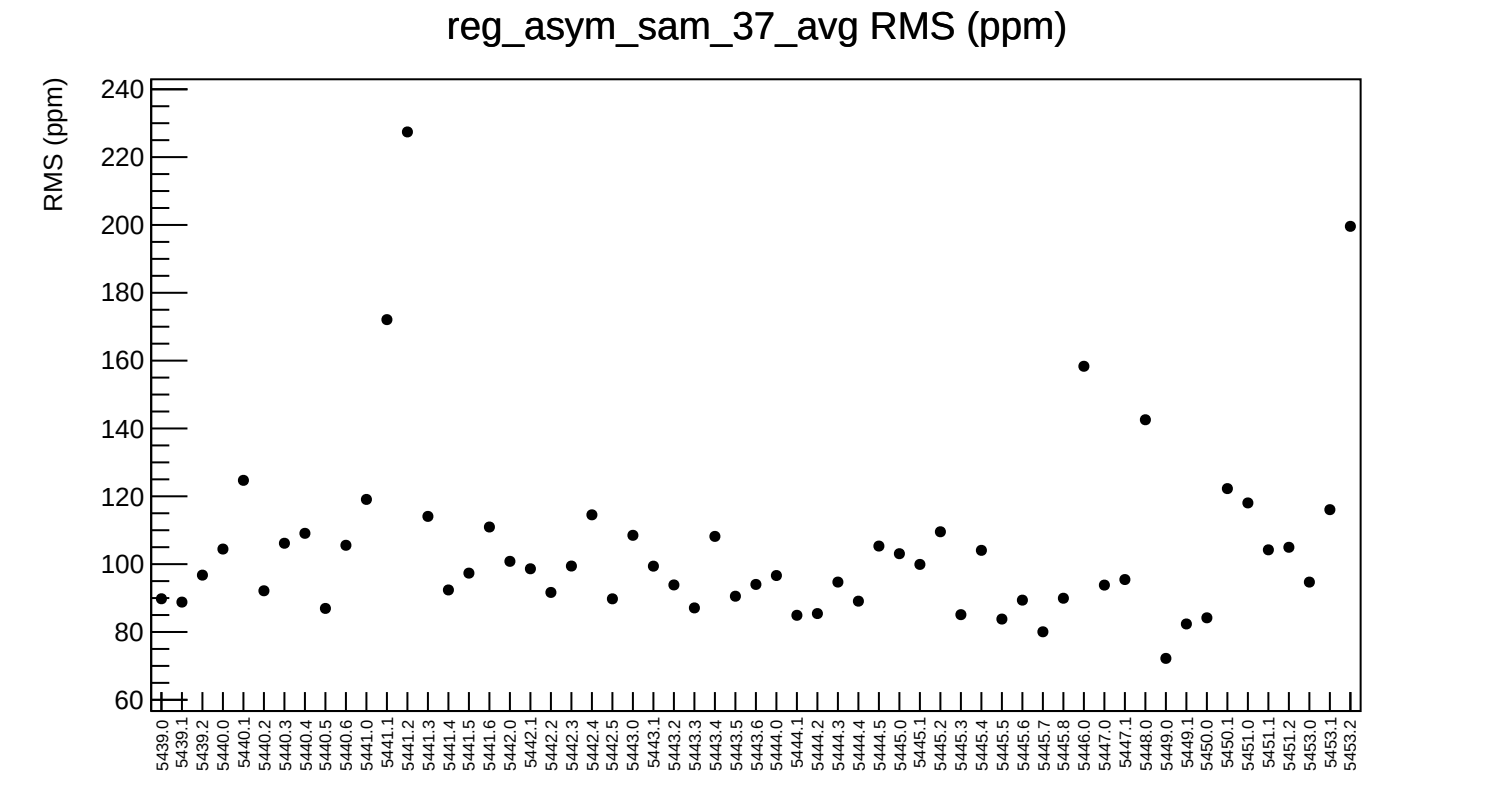

reg_asym_sam_26_avg
χ² / ndf 54.12 / 58
p0 409.4 ± 249

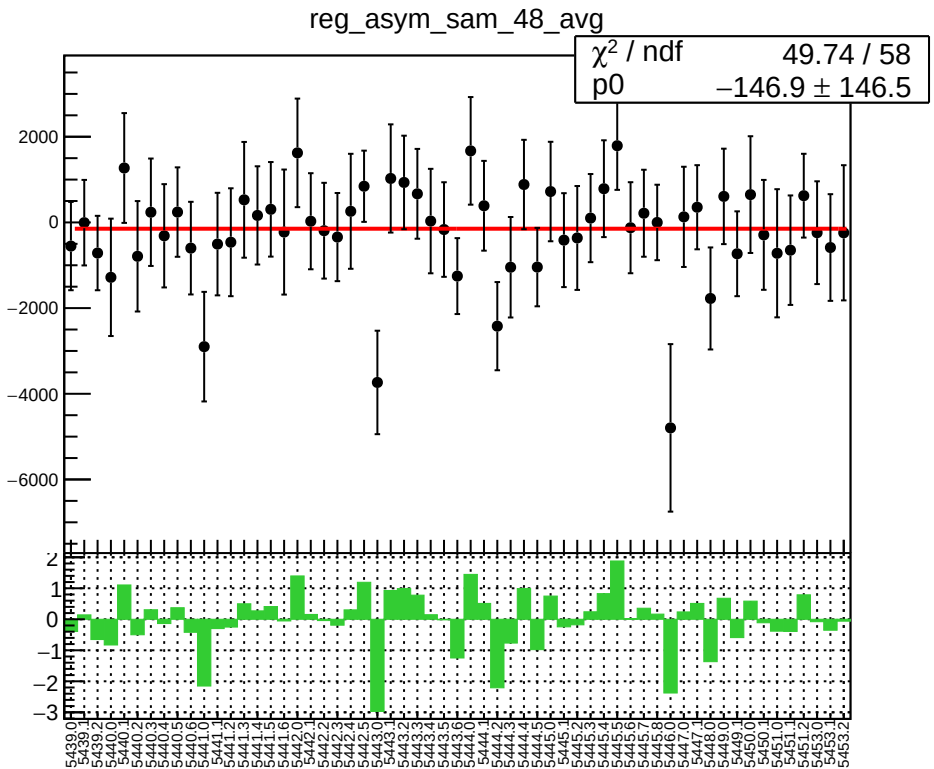

1D pull distribution
Mean −0.003522 ± 0.1247
Std Dev 0.9578 ± 0.08817
Underflow 0
Overflow 0
χ² / ndf 6.329 / 6
Constant 11.41 ± 2.00
Mean 0.08868 ± 0.15105
Sigma 1.004 ± 0.126

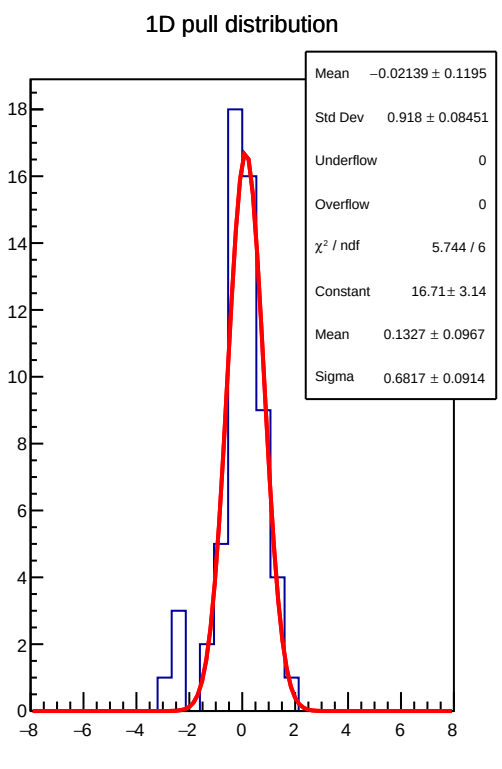

reg_asym_sam_26_avg RMS (ppm)
RMS (ppm)
280
260
240
220
200
180
160
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

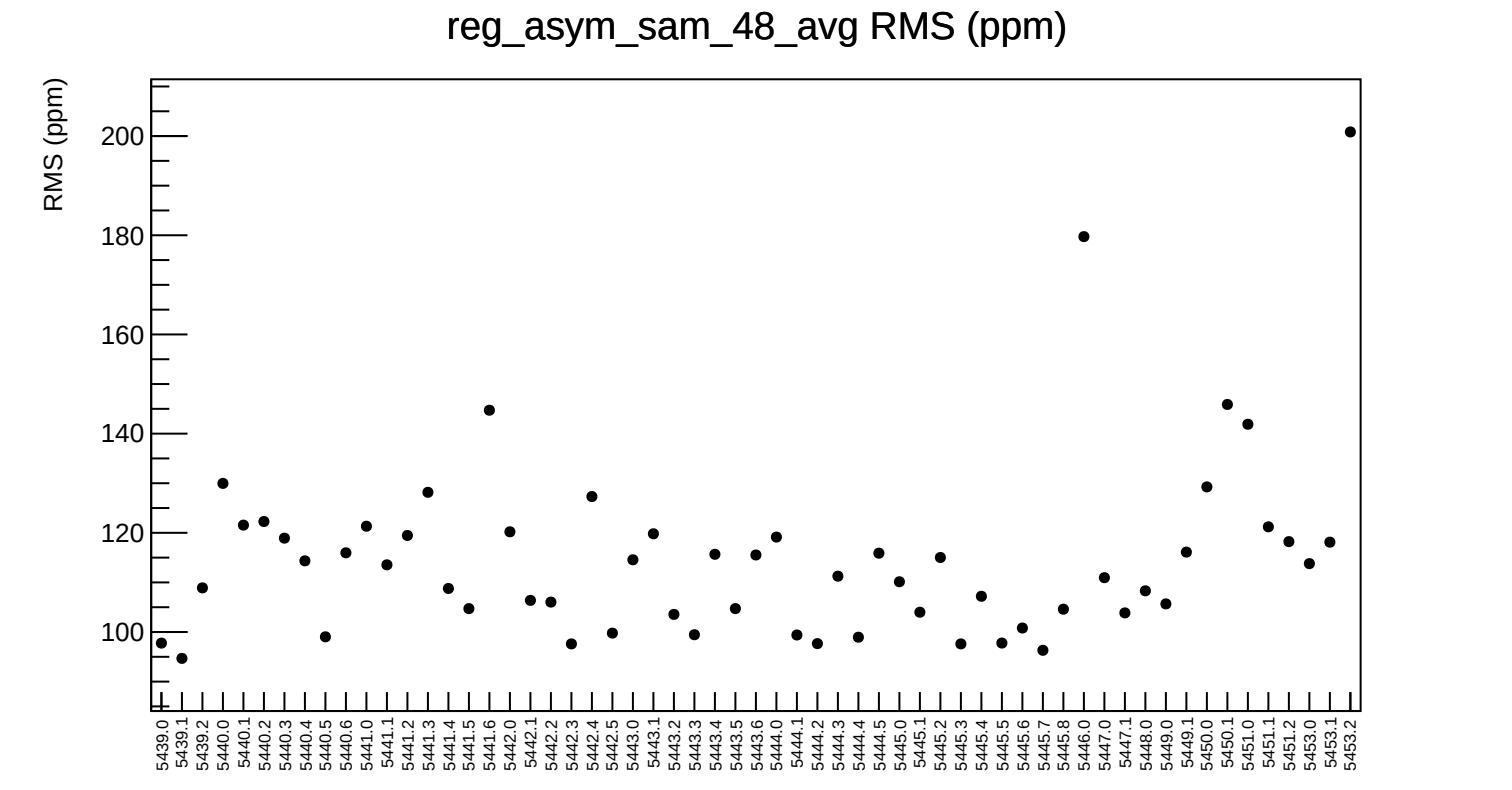

reg_asym_sam_37_avg
χ² / ndf 44.44 / 58
p0 −14.32 ± 129.5

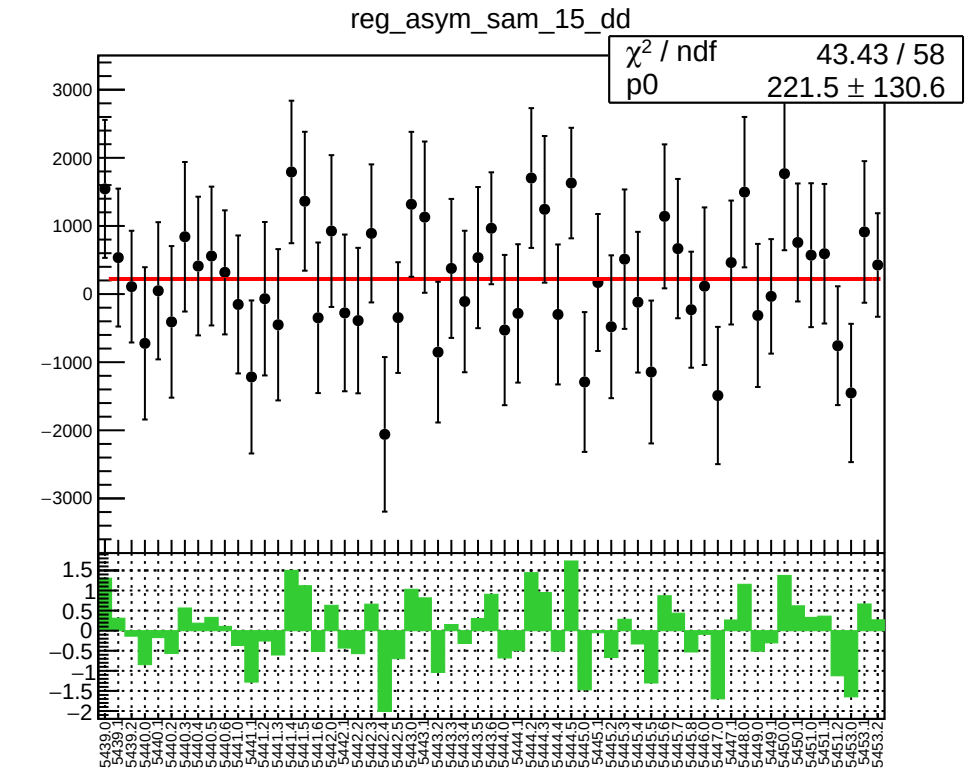

1D pull distribution
Mean −0.0418 ± 0.1129
Std Dev 0.8668 ± 0.0798
Underflow 0
Overflow 0
χ² / ndf 2.81 / 5
Constant 12.96 ± 2.14
Mean −0.0673 ± 0.1393
Sigma 0.9439 ± 0.1073

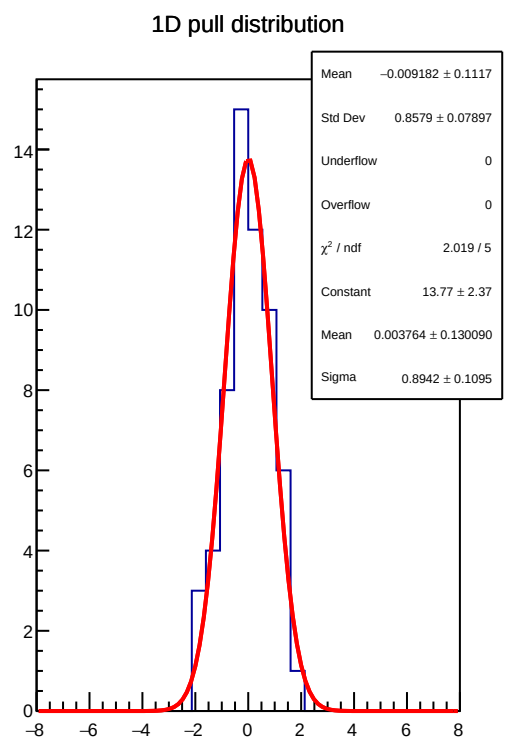

reg_asym_sam_37_avg RMS (ppm)
RMS (ppm)
240
220
200
180
160
140
120
100
80
60
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

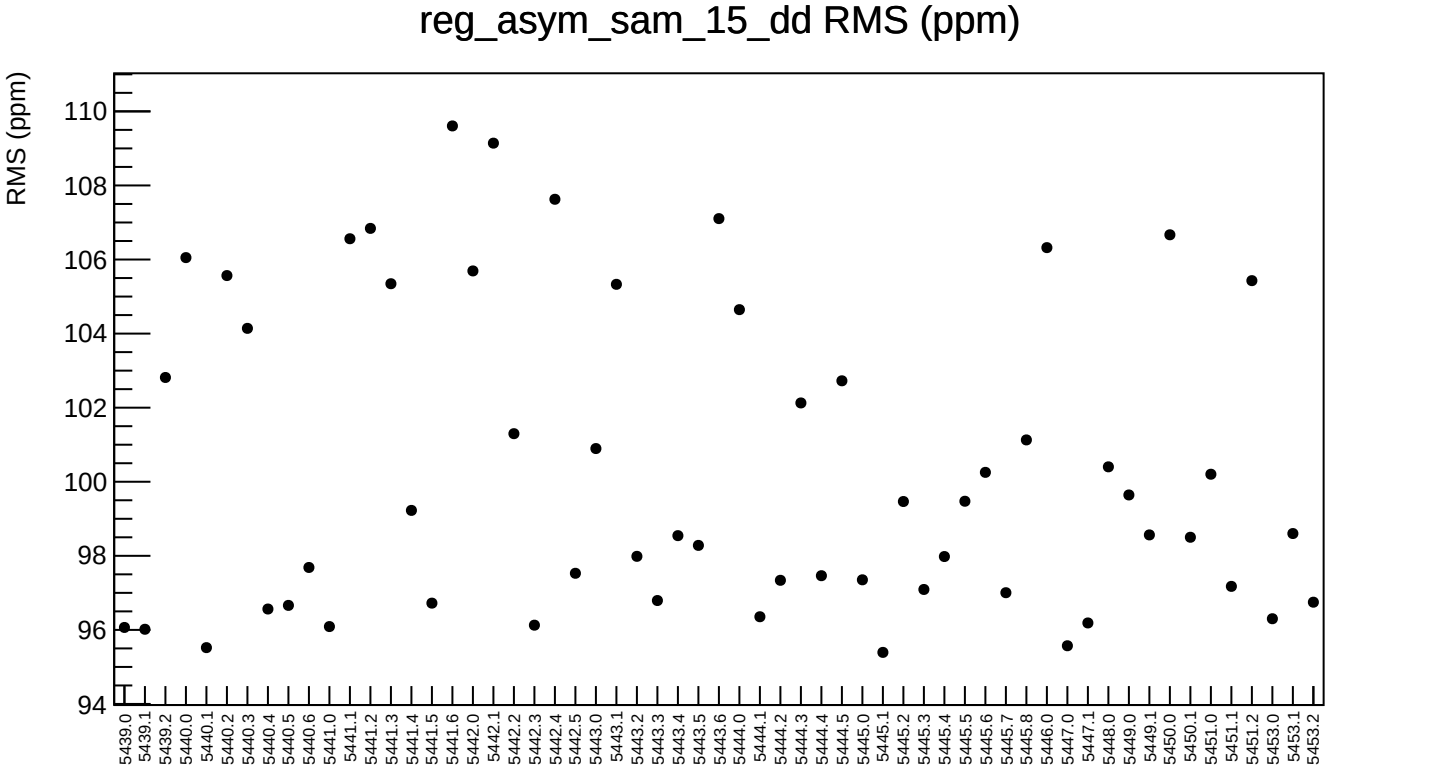

reg_asym_sam_48_avg
χ² / ndf 49.74 / 58
p0 −146.9 ± 146.5
2000
0
−2000
−4000
−6000
2
1
0
−1
−2
−3
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

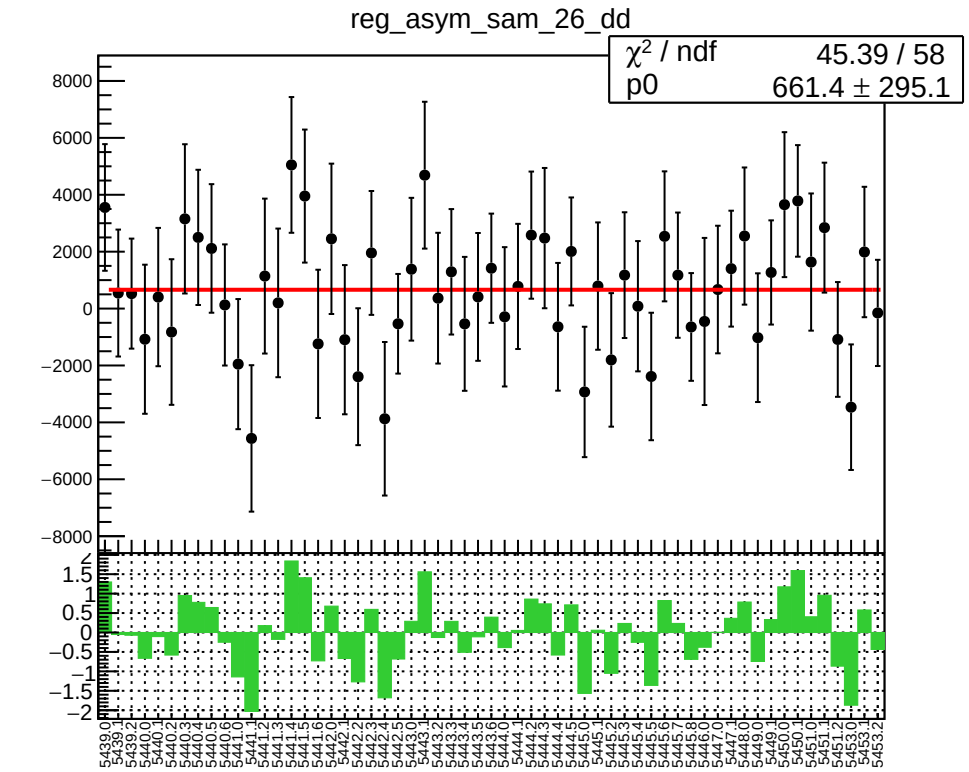

1D pull distribution
Mean −0.02139 ± 0.1195
Std Dev 0.918 ± 0.08451
Underflow 0
Overflow 0
χ² / ndf 5.744 / 6
Constant 16.71± 3.14
Mean 0.1327 ± 0.0967
Sigma 0.6817 ± 0.0914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

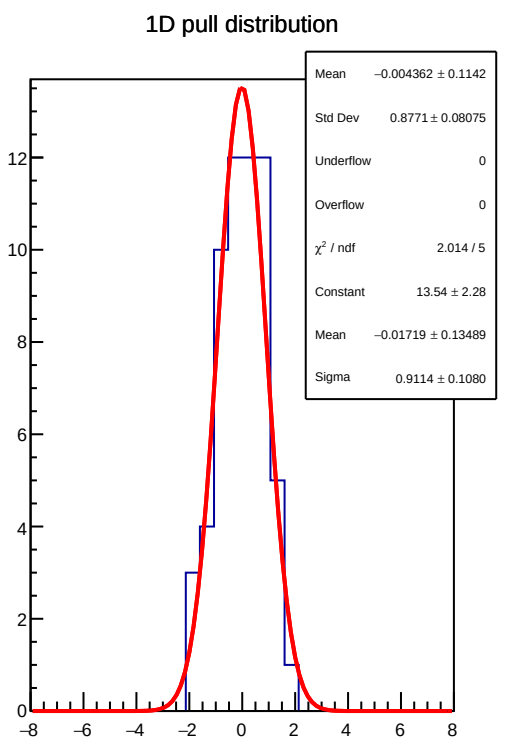

reg_asym_sam_48_avg RMS (ppm)
RMS (ppm)
200
180
160
140
120
100
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

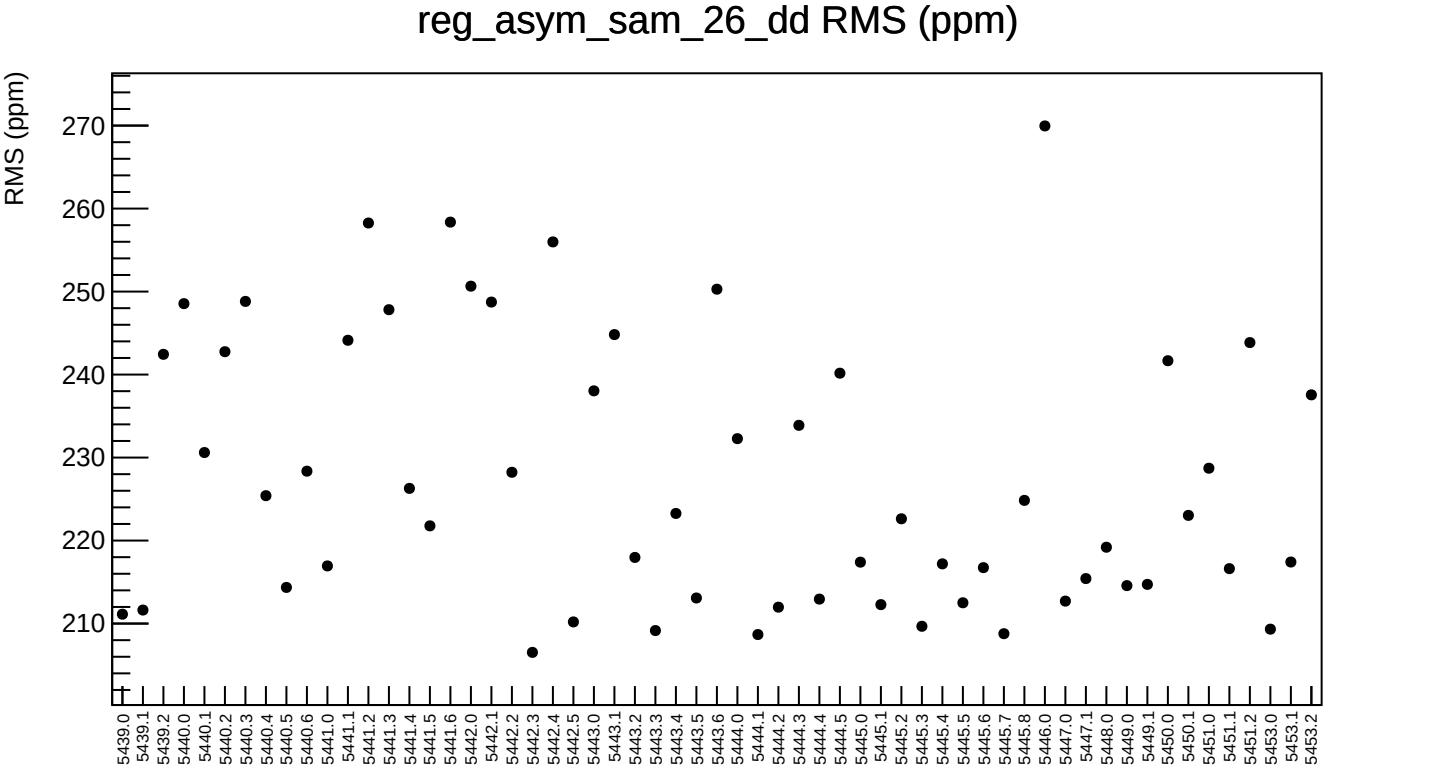

reg_asym_sam_15_dd
χ² / ndf 43.43 / 58
p0 221.5 ± 130.6

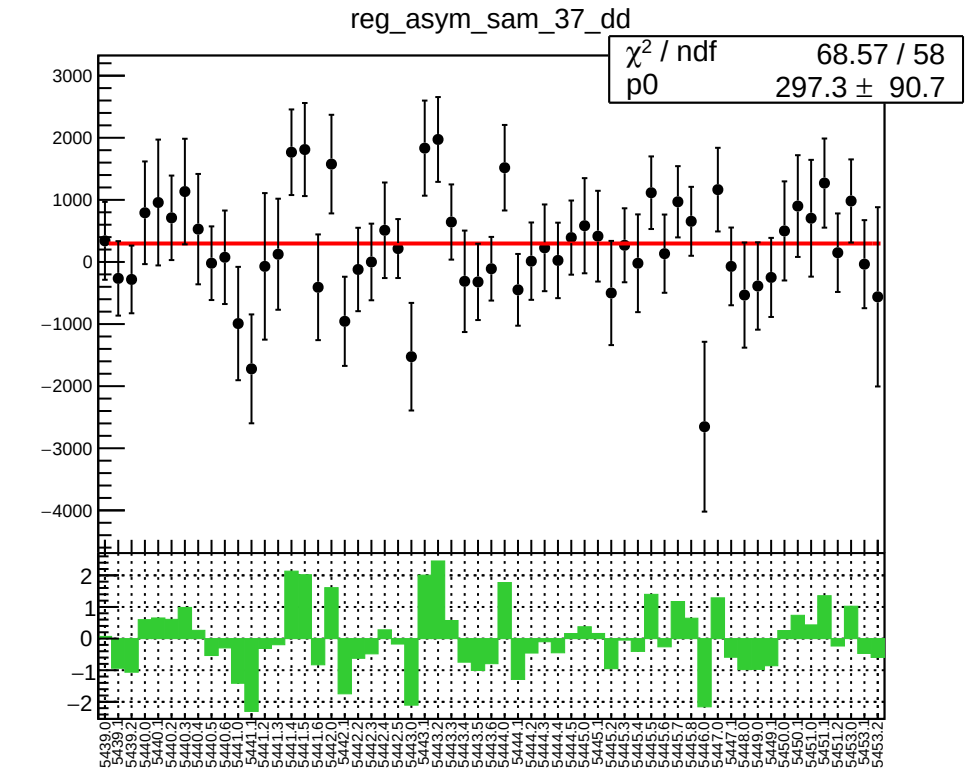

1D pull distribution
Mean −0.009182 ± 0.1117
Std Dev 0.8579 ± 0.07897
Underflow 0
Overflow 0
χ² / ndf 2.019 / 5
Constant 13.77 ± 2.37
Mean 0.003764 ± 0.130090
Sigma 0.8942 ± 0.1095

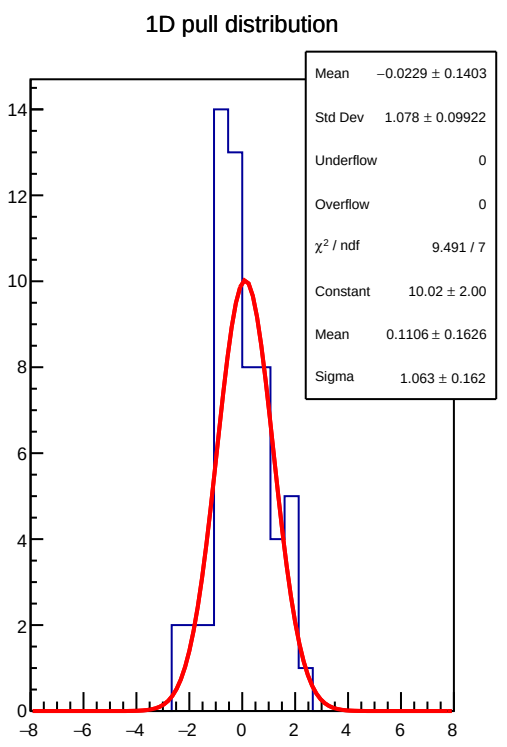

reg_asym_sam_15_dd RMS (ppm)
RMS (ppm)
110
108
106
104
102
100
98
96
94
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

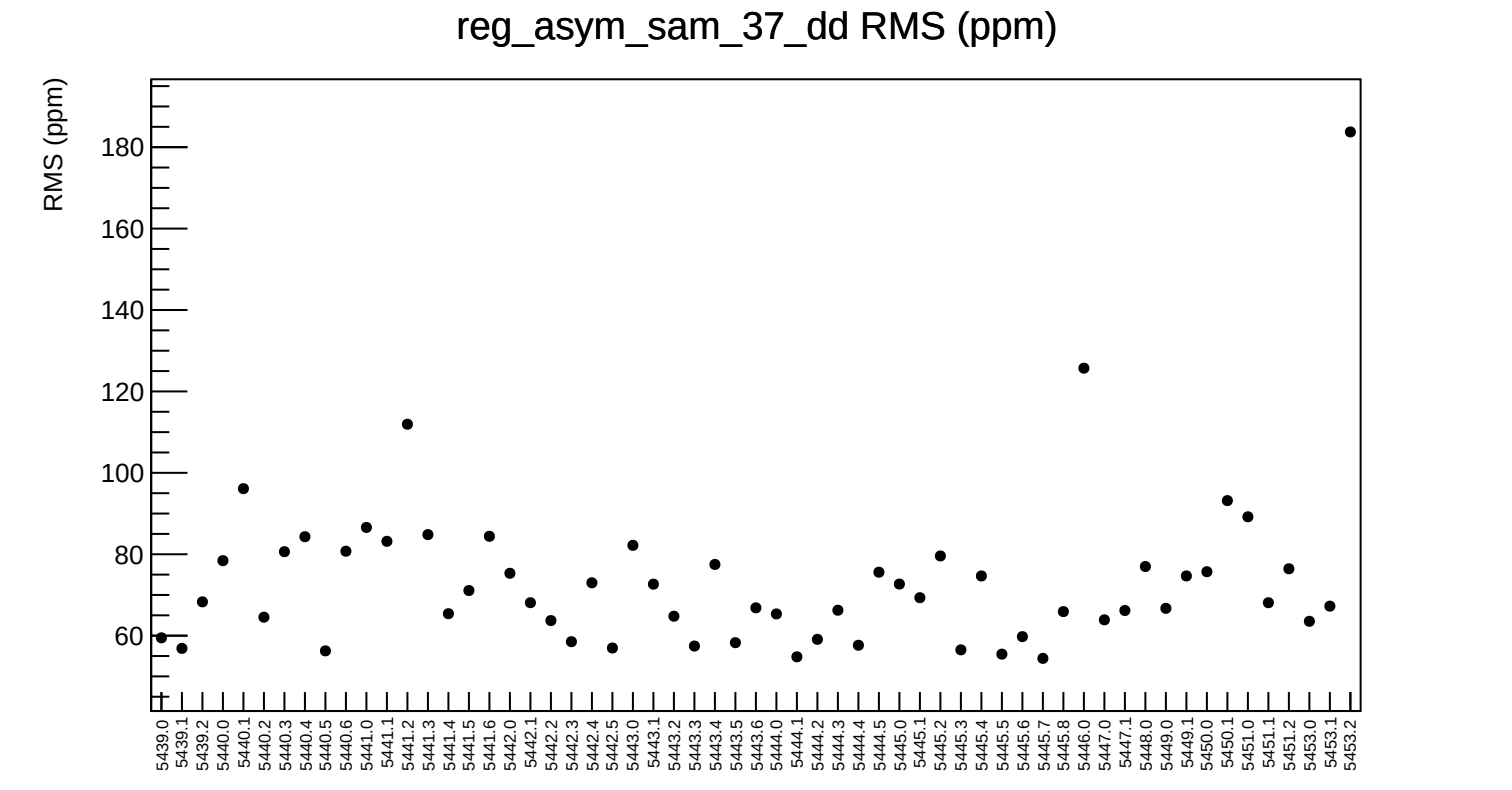

reg_asym_sam_26_dd
χ² / ndf 45.39 / 58
p0 661.4 ± 295.1

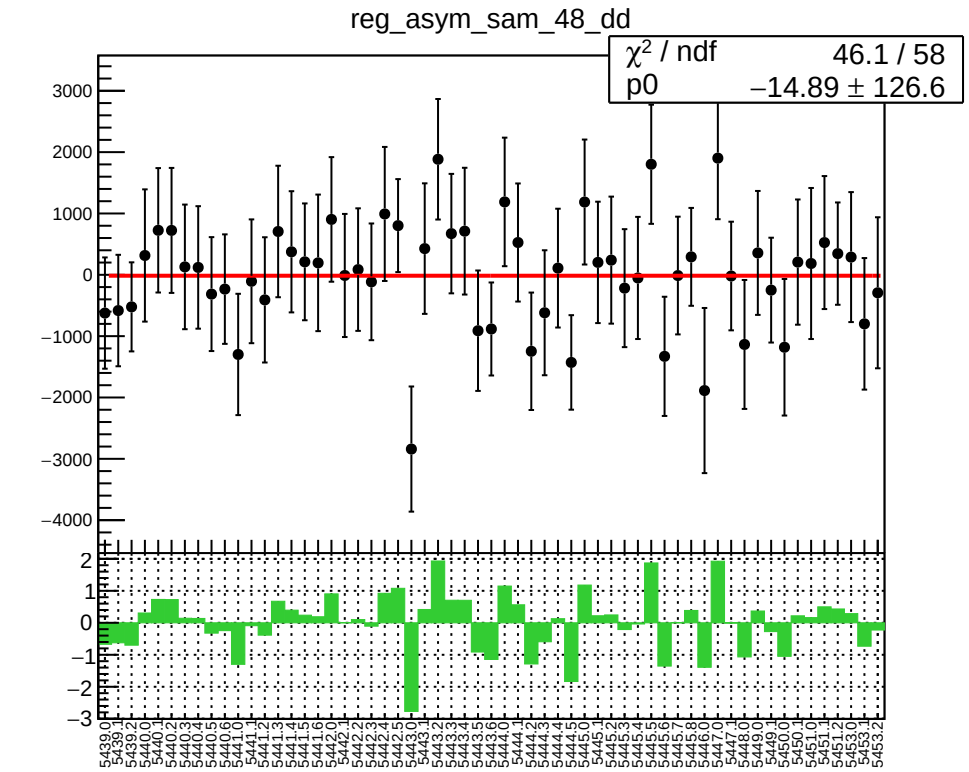

1D pull distribution
Mean −0.004362 ± 0.1142
Std Dev 0.8771 ± 0.08075
Underflow 0
Overflow 0
χ² / ndf 2.014 / 5
Constant 13.54 ± 2.28
Mean −0.01719 ± 0.13489
Sigma 0.9114 ± 0.1080

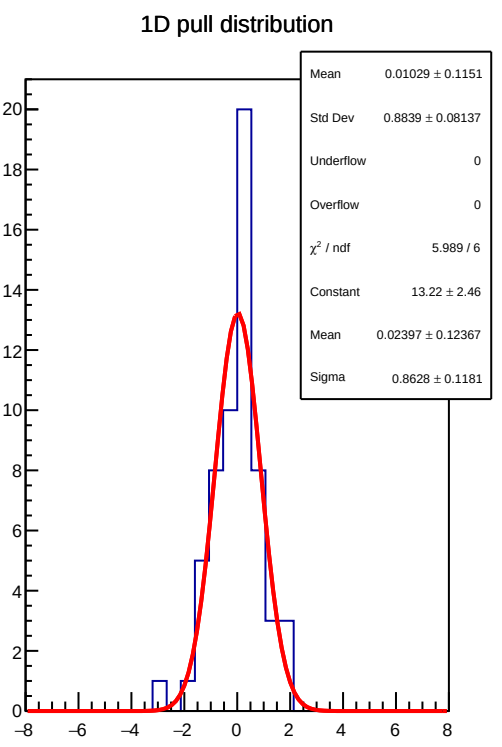

reg_asym_sam_26_dd RMS (ppm)
RMS (ppm)
270
260
250
240
230
220
210
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

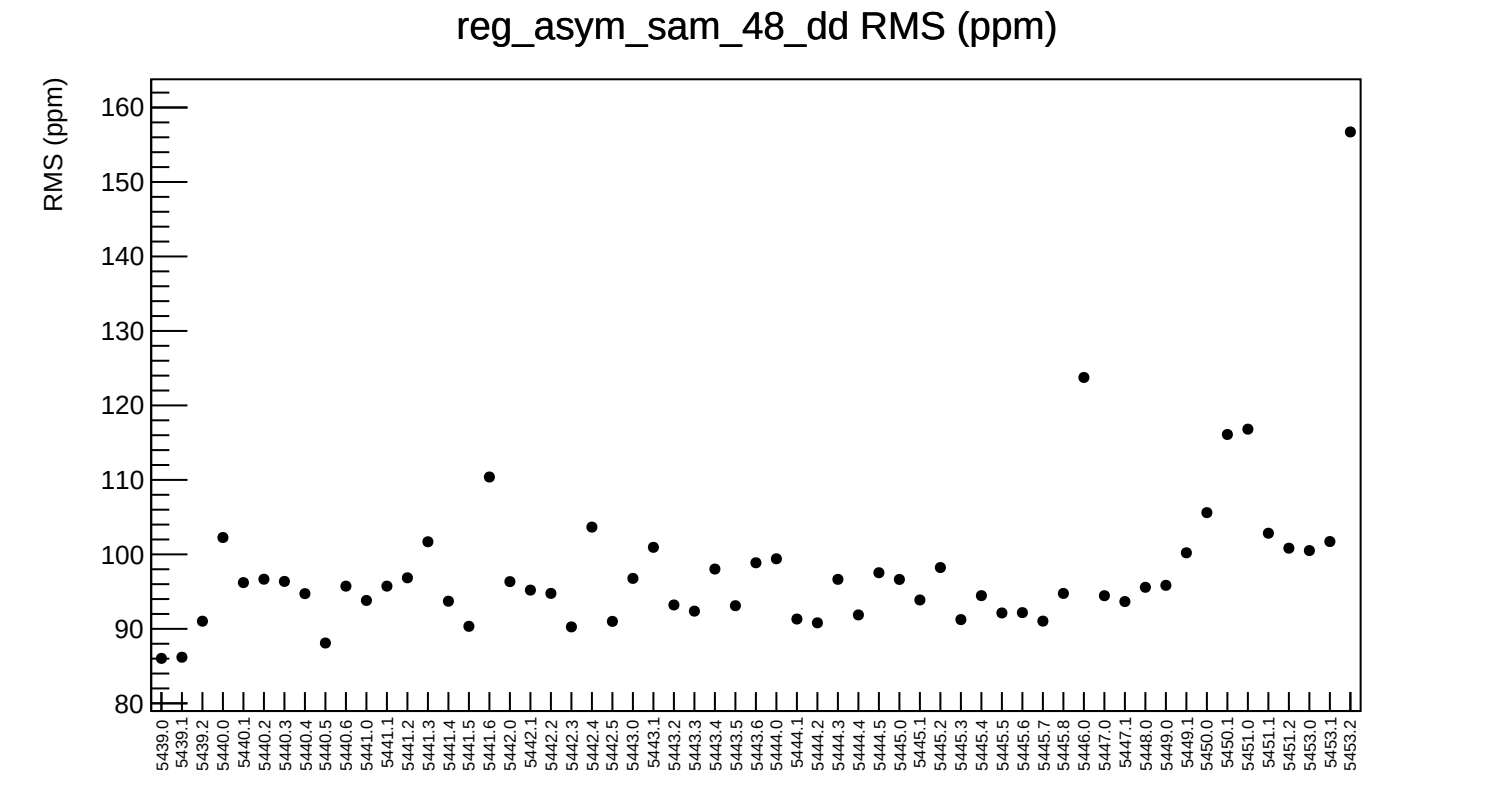

reg_asym_sam_37_dd
χ² / ndf 68.57 / 58
p0 297.3 ± 90.7

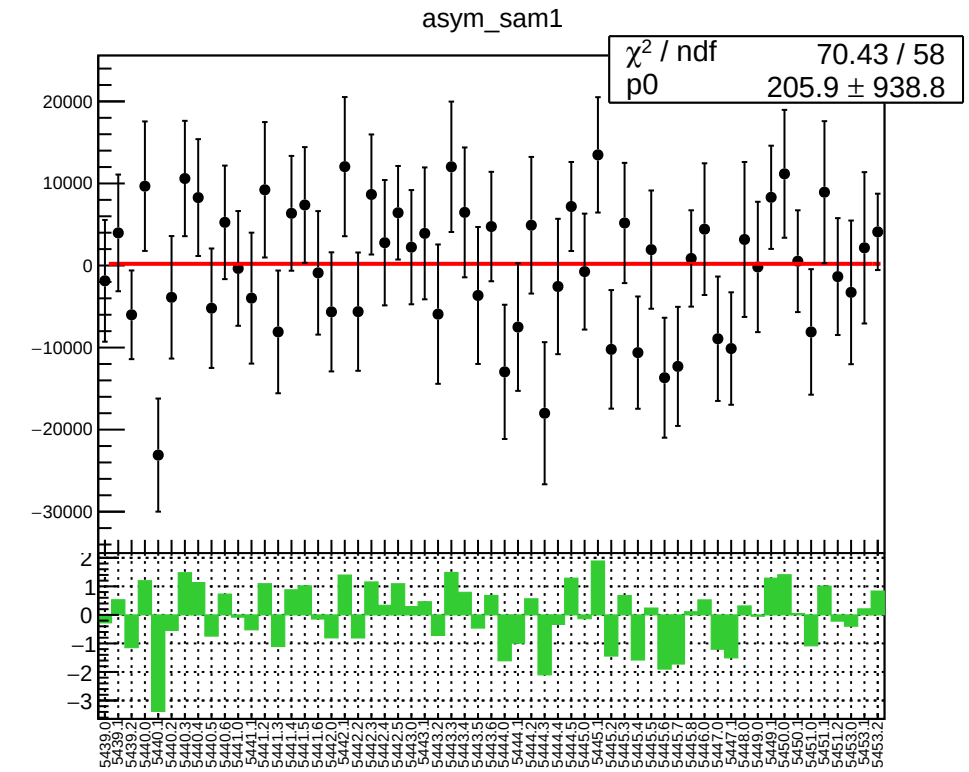

1D pull distribution
Mean −0.0229 ± 0.1403
Std Dev 1.078 ± 0.09922
Underflow 0
Overflow 0
χ² / ndf 9.491 / 7
Constant 10.02 ± 2.00
Mean 0.1106 ± 0.1626
Sigma 1.063 ± 0.162

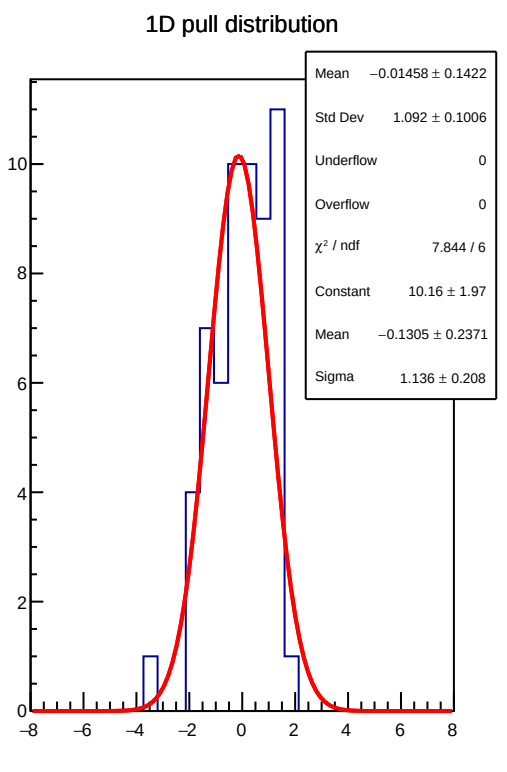

reg_asym_sam_37_dd RMS (ppm)
RMS (ppm)
180
160
140
120
100
80
60
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

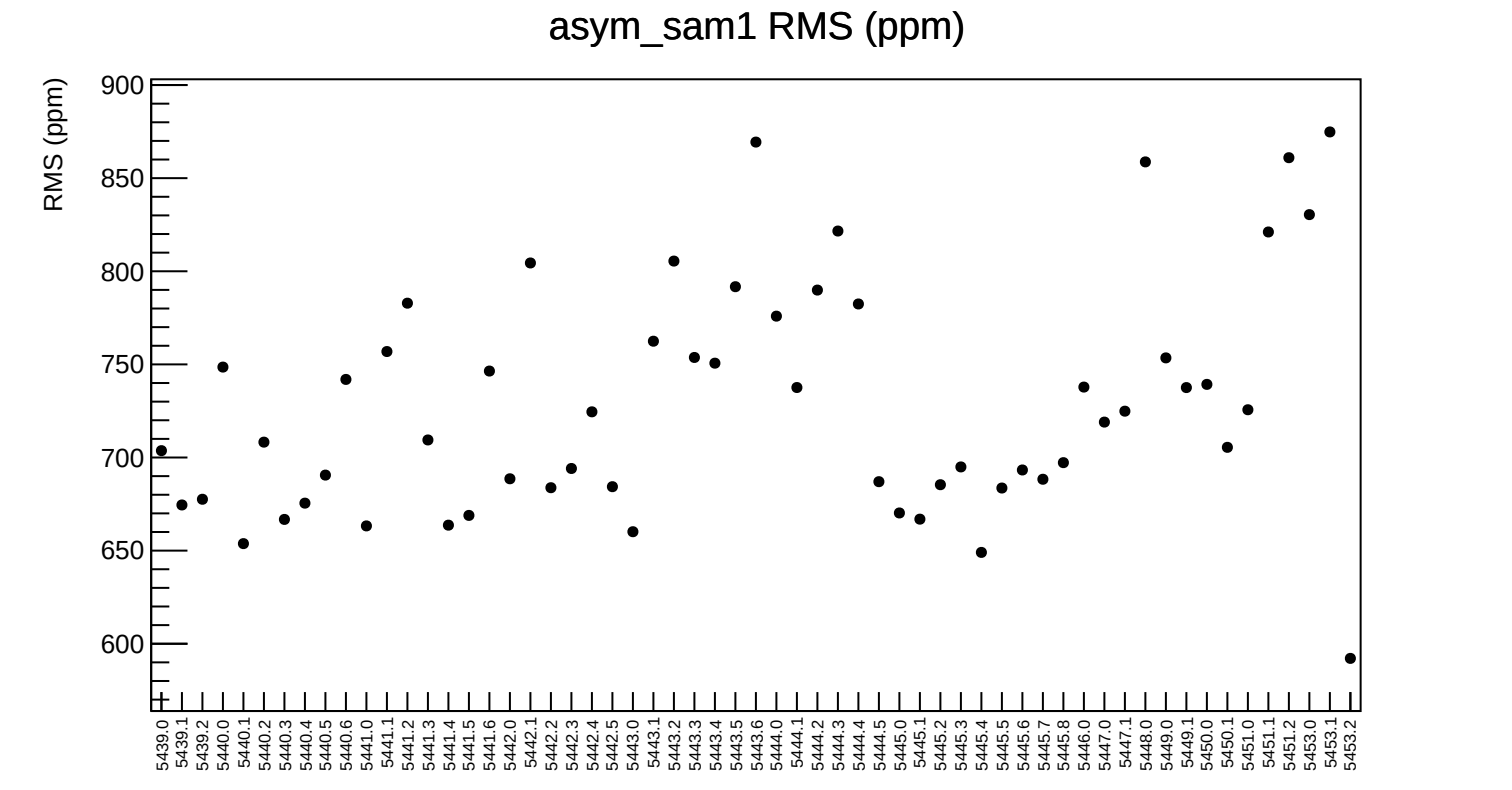

reg_asym_sam_48_dd
χ² / ndf 46.1 / 58
p0 −14.89 ± 126.6

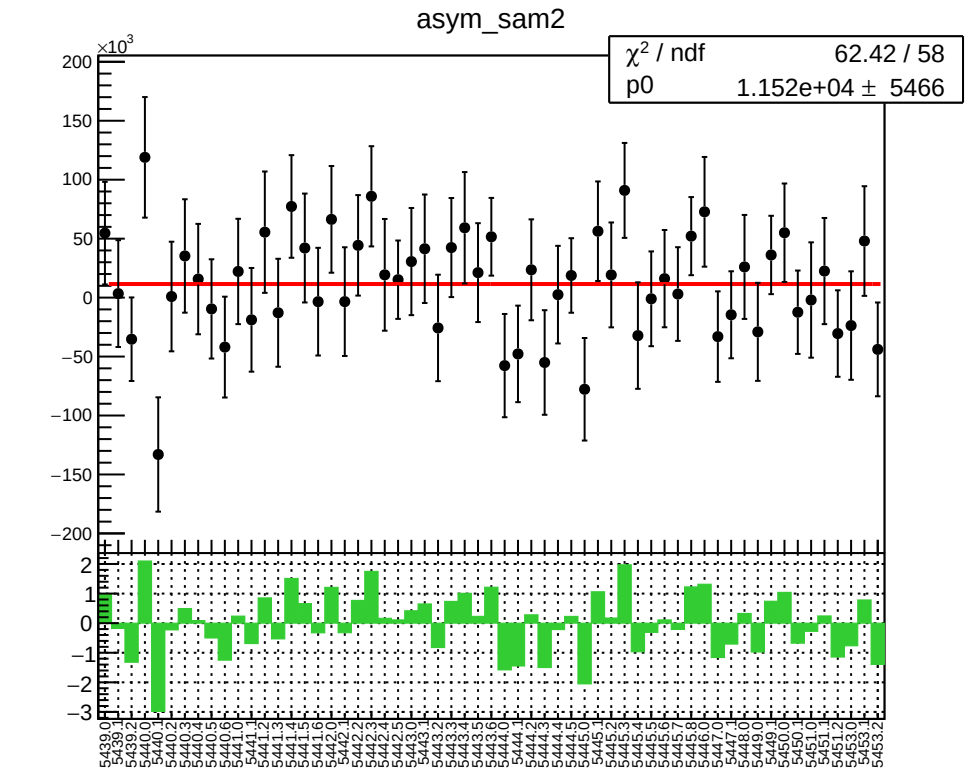

1D pull distribution
Mean 0.01029 ± 0.1151
Std Dev 0.8839 ± 0.08137
Underflow 0
Overflow 0
χ² / ndf 5.989 / 6
Constant 13.22 ± 2.46
Mean 0.02397 ± 0.12367
Sigma 0.8628 ± 0.1181

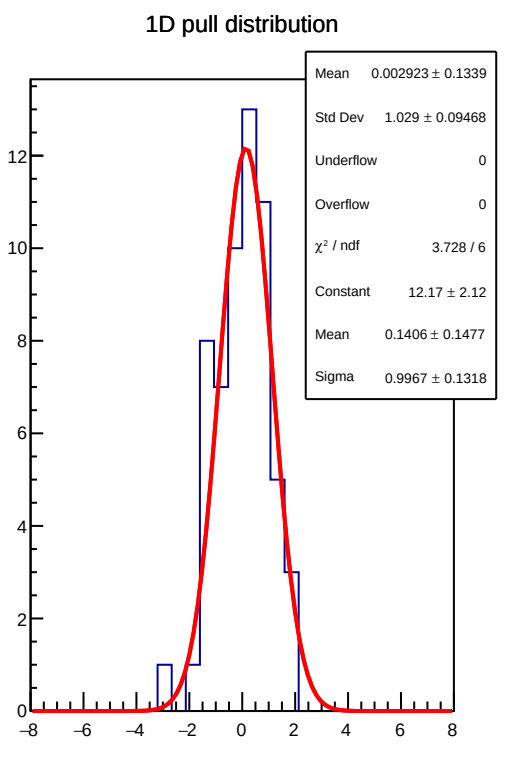

reg_asym_sam_48_dd RMS (ppm)
RMS (ppm)
160
150
140
130
120
110
100
90
80
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

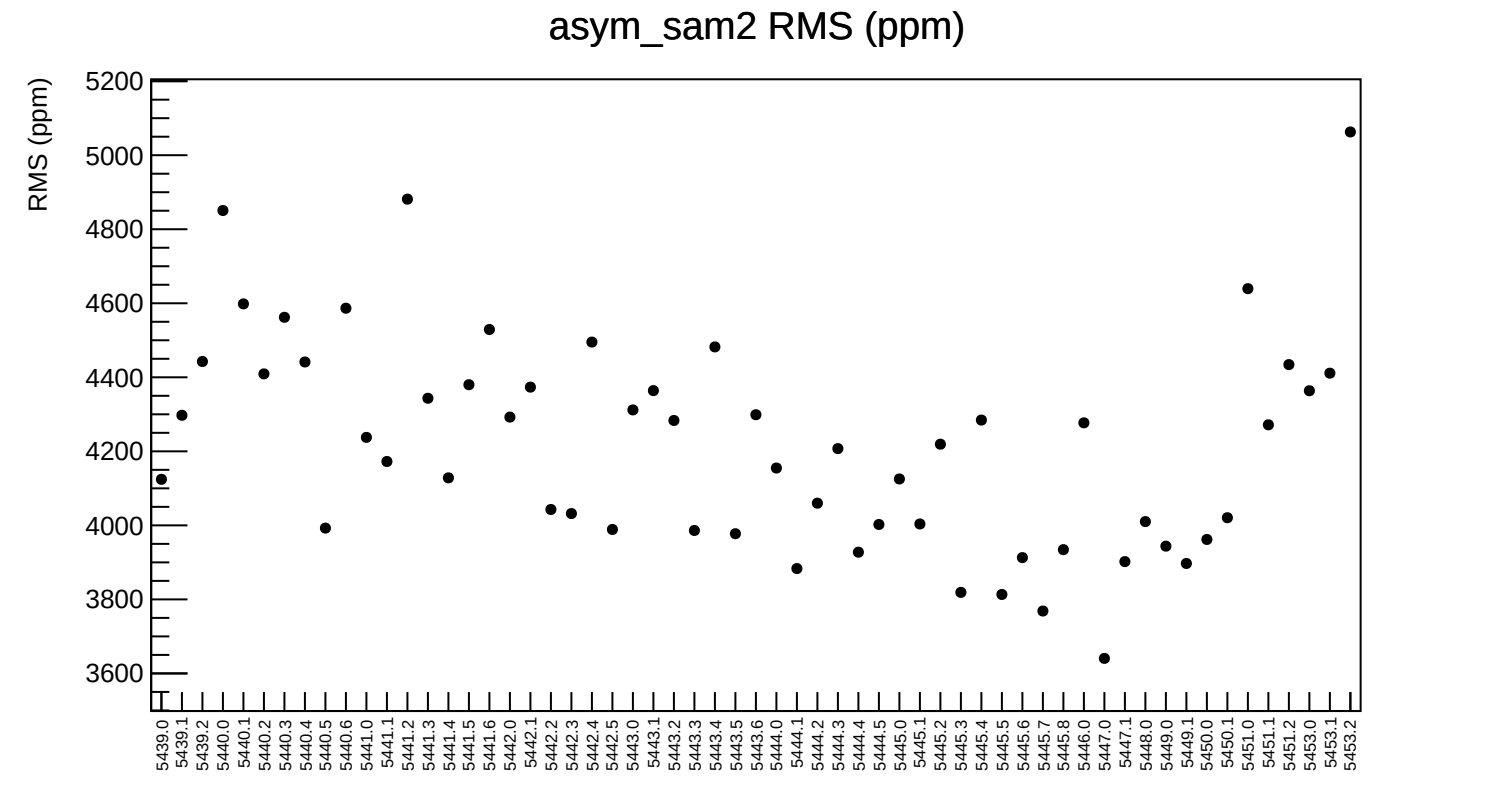

asym_sam1
χ² / ndf 70.43 / 58
p0 205.9 ± 938.8
20000
10000
0
−10000
−20000
−30000
2
1
0
−1
−2
−3
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5450.2
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

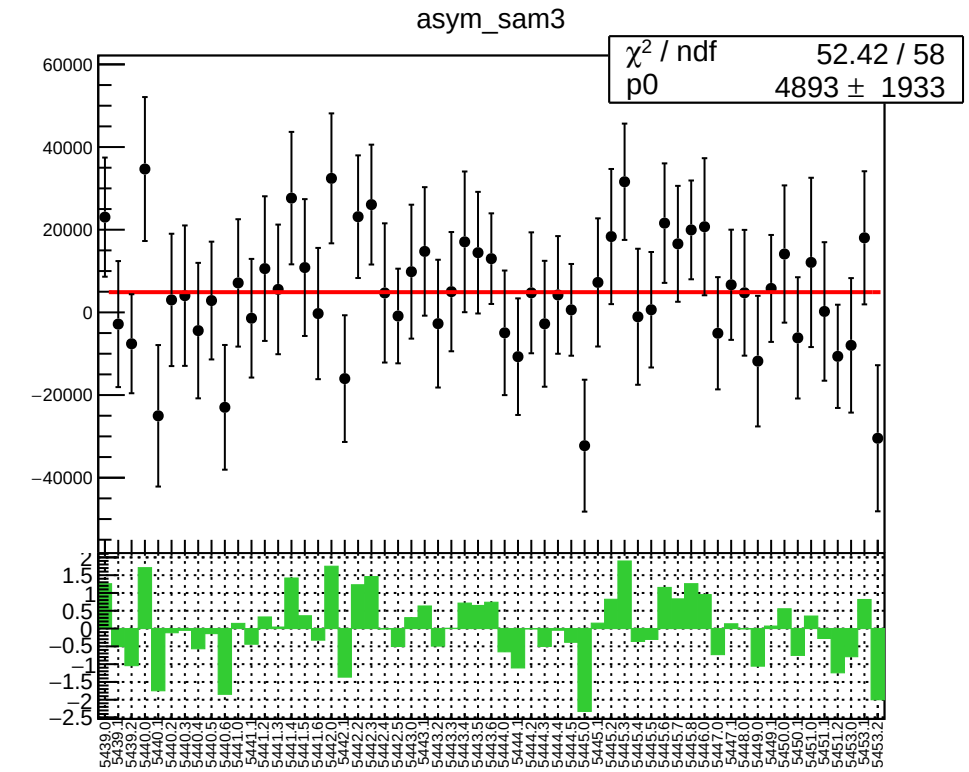

1D pull distribution
Mean −0.01458 ± 0.1422
Std Dev 1.092 ± 0.1006
Underflow 0
Overflow 0
χ² / ndf 7.844 / 6
Constant 10.16 ± 1.97
Mean −0.1305 ± 0.2371
Sigma 1.136 ± 0.208
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

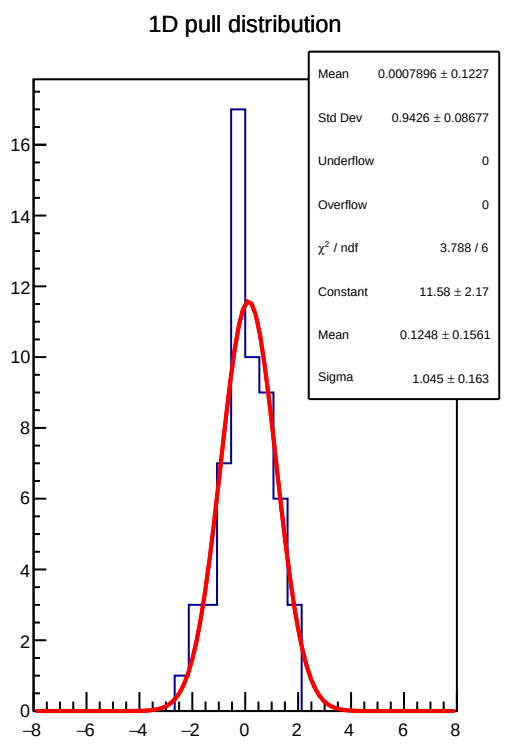

asym_sam1 RMS (ppm)
RMS (ppm)
900
850
800
750
700
650
600
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

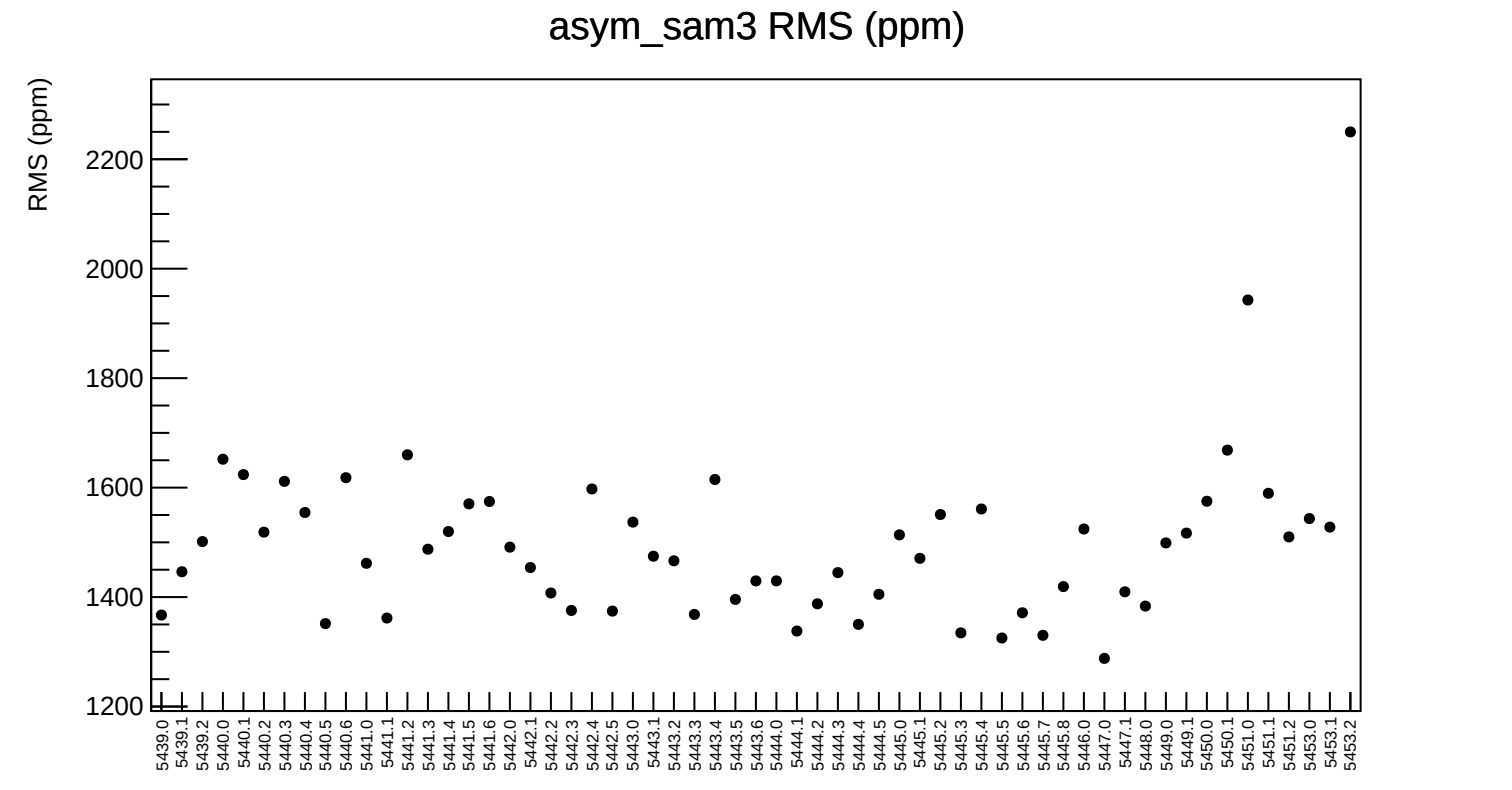

asym_sam2
χ^2 / ndf 62.42 / 58
p0 1.152e+04 ± 5466
×10^3

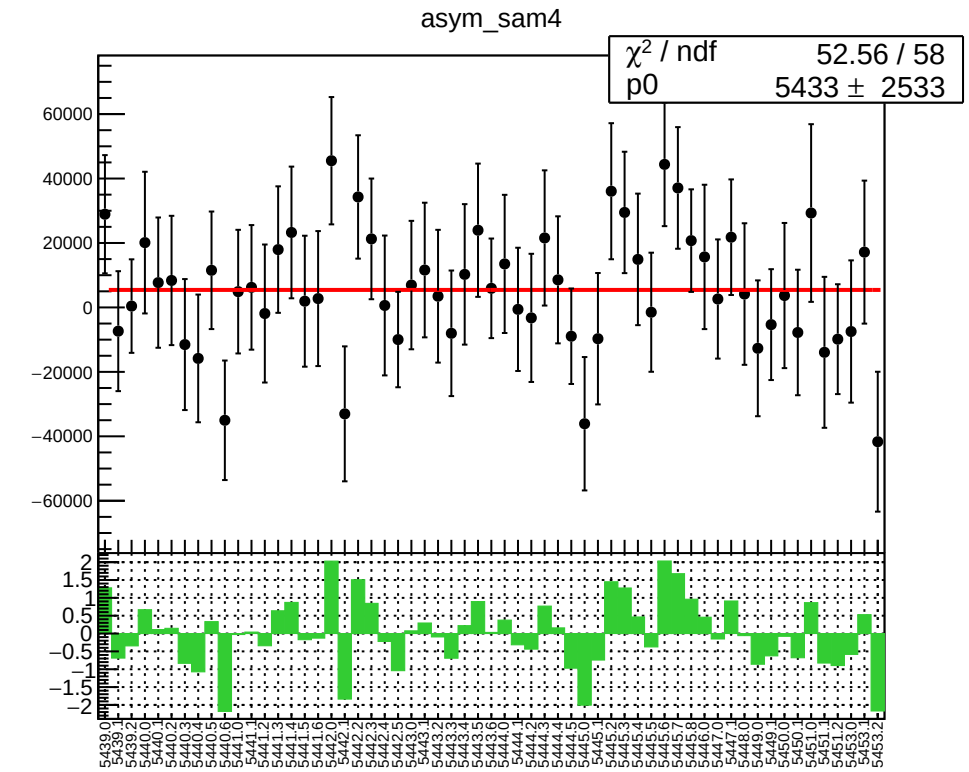

1D pull distribution
Mean 0.002923 ± 0.1339
Std Dev 1.029 ± 0.09468
Underflow 0
Overflow 0
χ^2 / ndf 3.728 / 6
Constant 12.17 ± 2.12
Mean 0.1406 ± 0.1477
Sigma 0.9967 ± 0.1318

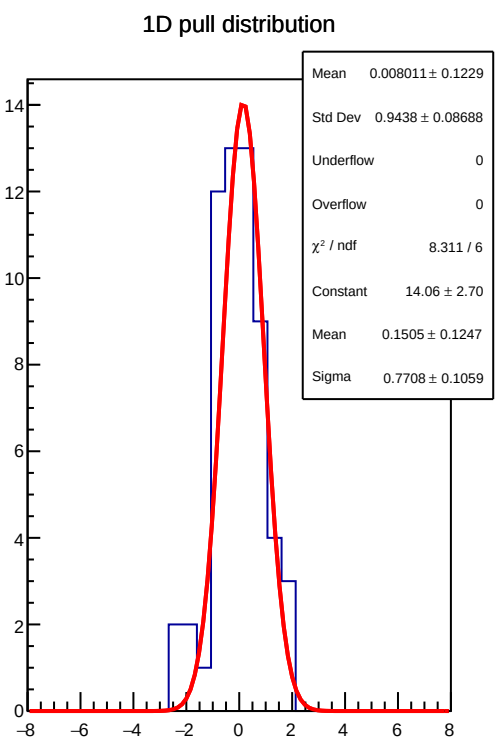

asym_sam2 RMS (ppm)
RMS (ppm)
5200
5000
4800
4600
4400
4200
4000
3800
3600
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

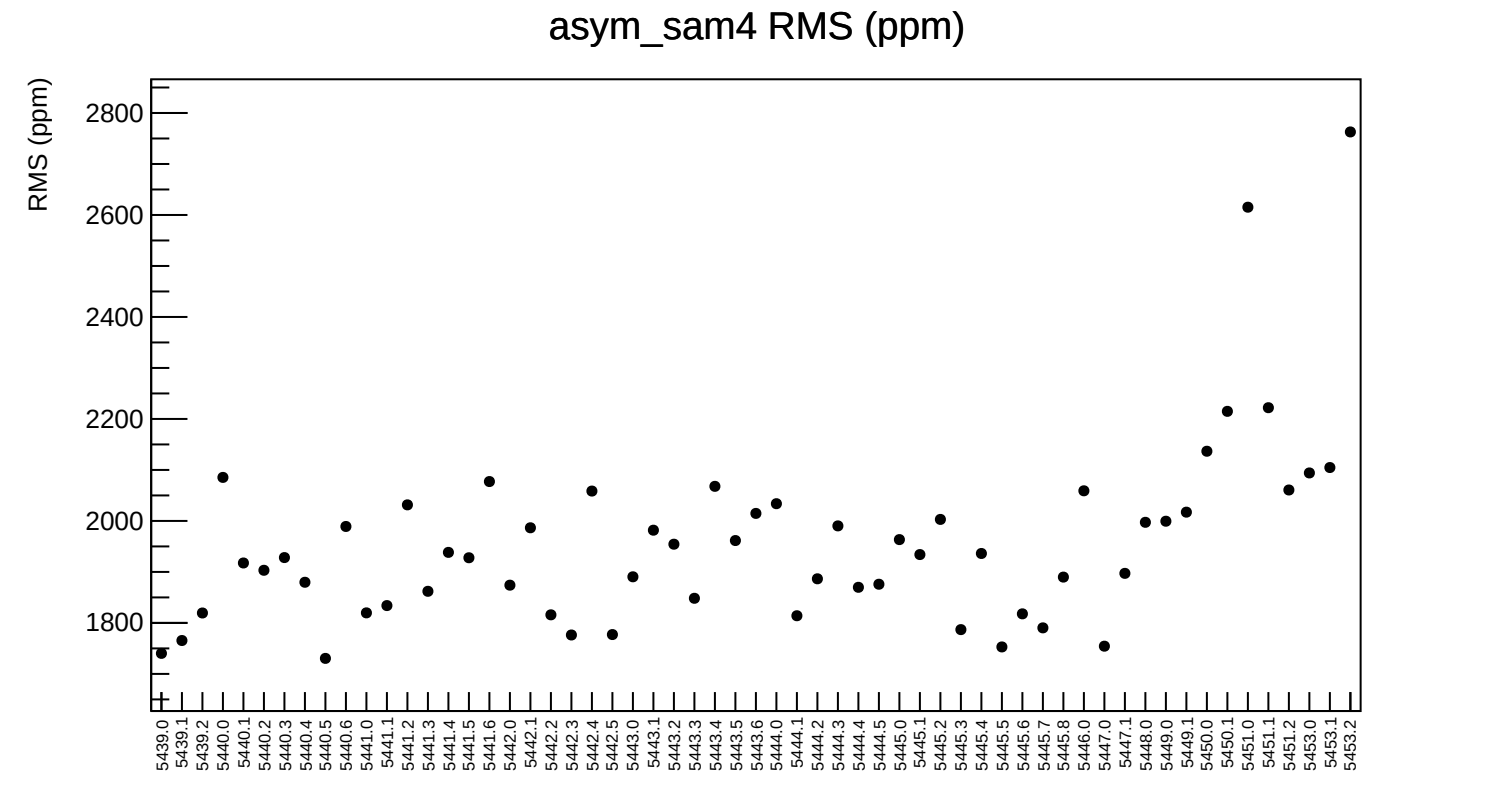

asym_sam3
χ² / ndf 52.42 / 58
p0 4893 ± 1933

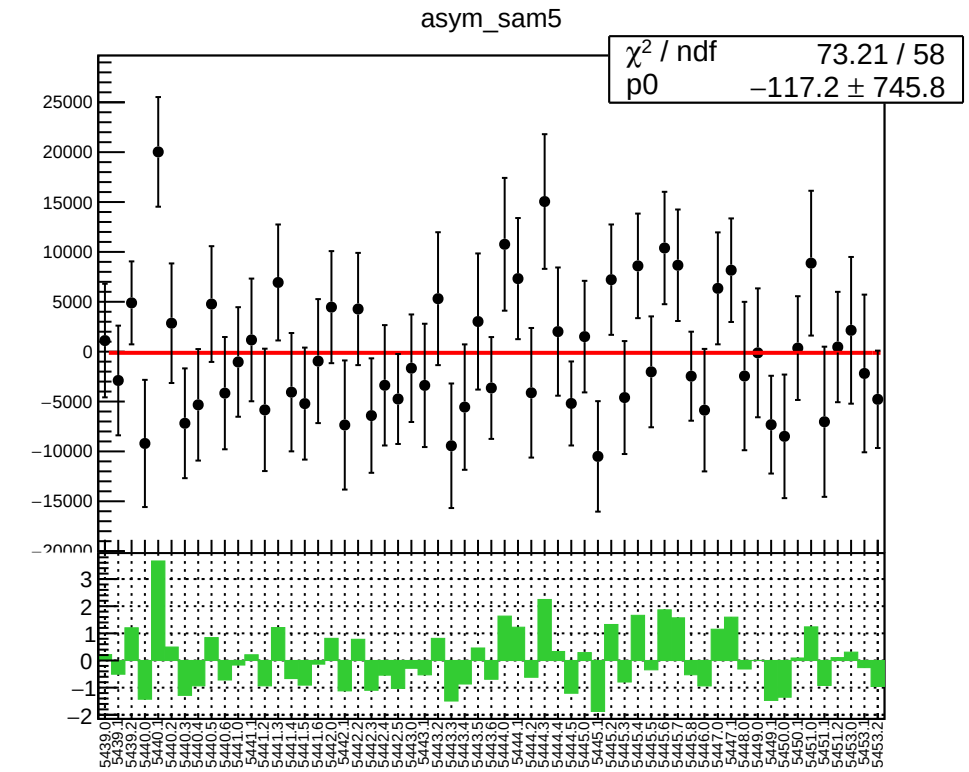

1D pull distribution
Mean 0.0007896 ± 0.1227
Std Dev 0.9426 ± 0.08677
Underflow 0
Overflow 0
χ² / ndf 3.788 / 6
Constant 11.58 ± 2.17
Mean 0.1248 ± 0.1561
Sigma 1.045 ± 0.163

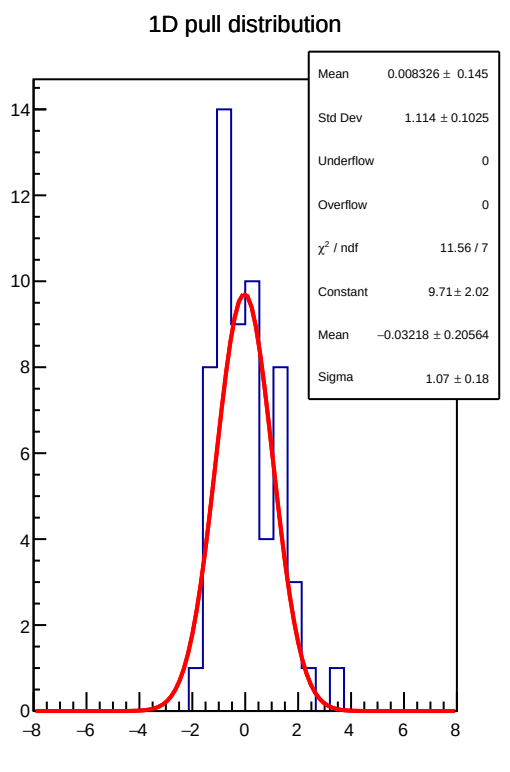

asym_sam3 RMS (ppm)
RMS (ppm)
2200
2000
1800
1600
1400
1200
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

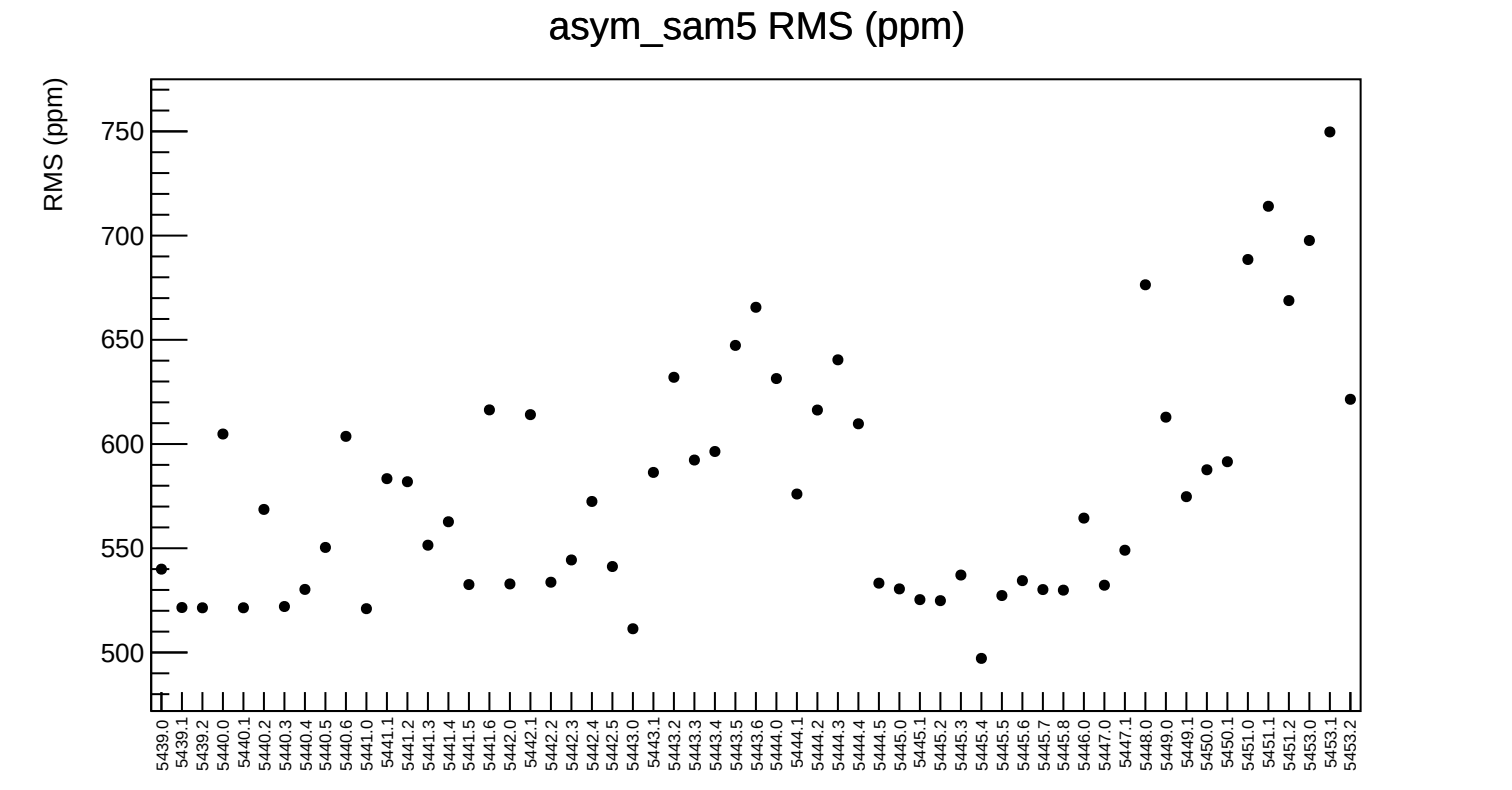

asym_sam4
χ² / ndf 52.56 / 58
p0 5433 ± 2533

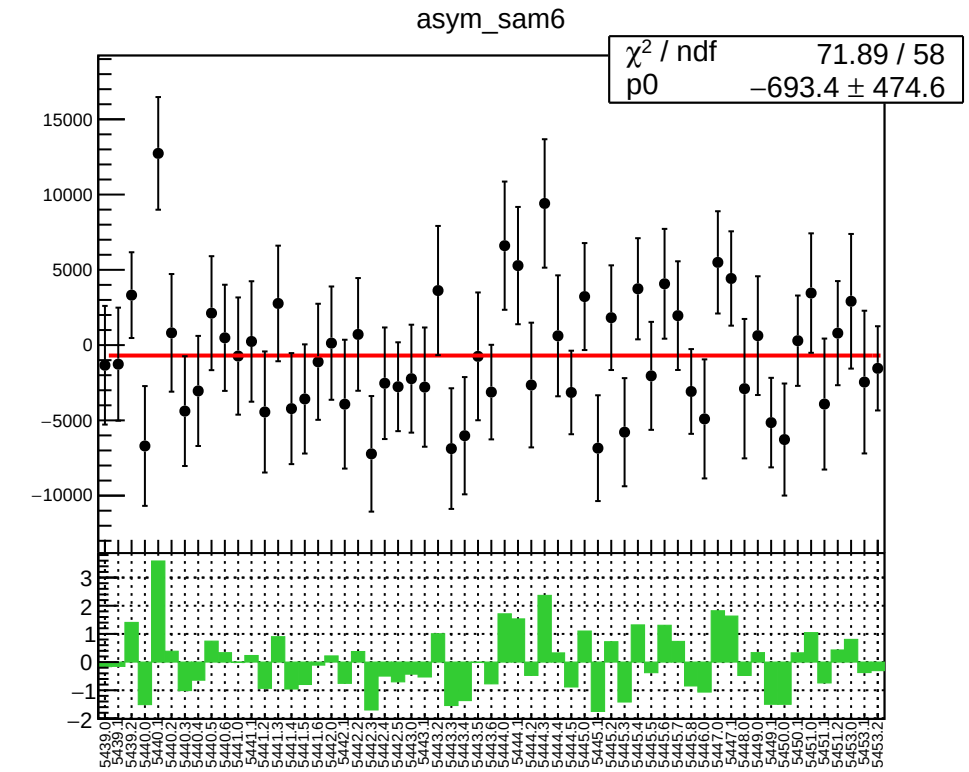

1D pull distribution
Mean 0.008011 ± 0.1229
Std Dev 0.9438 ± 0.08688
Underflow 0
Overflow 0
χ² / ndf 8.311 / 6
Constant 14.06 ± 2.70
Mean 0.1505 ± 0.1247
Sigma 0.7708 ± 0.1059

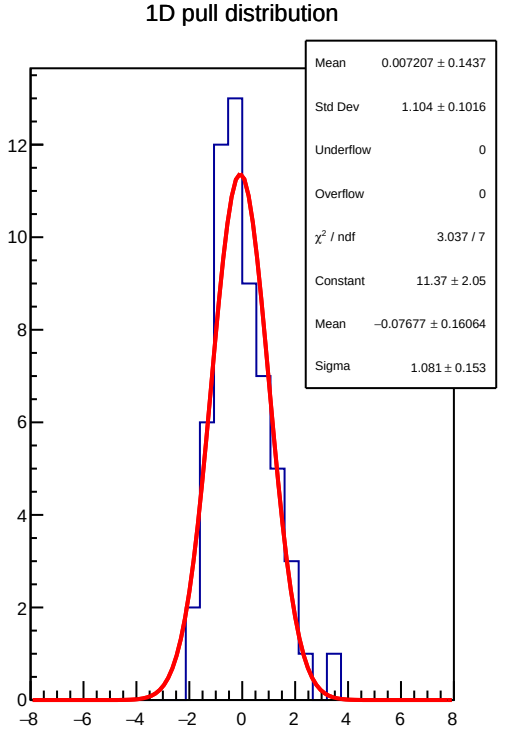

asym_sam4 RMS (ppm)
RMS (ppm)
2800
2600
2400
2200
2000
1800
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

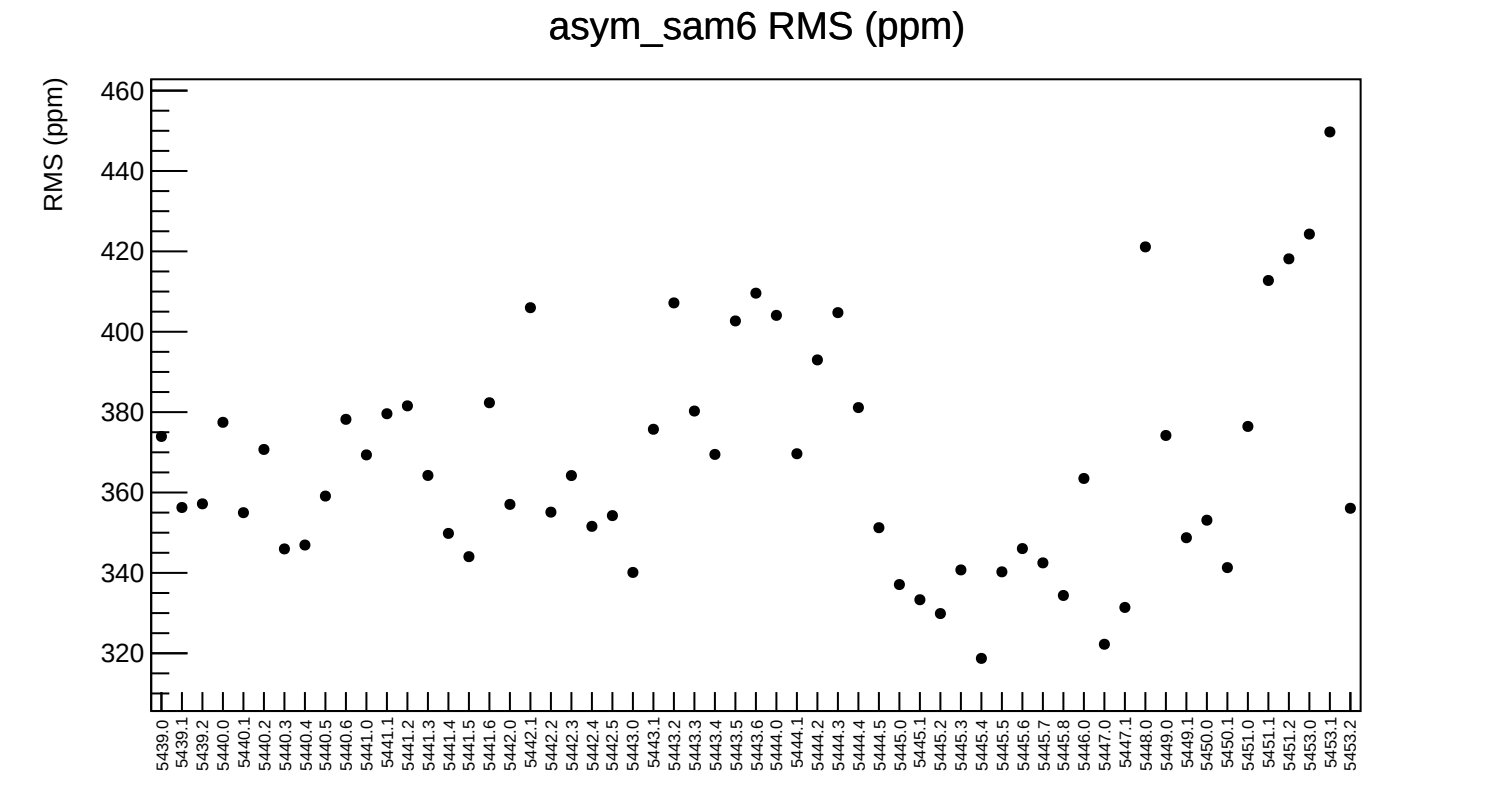

asym_sam5
χ² / ndf 73.21 / 58
p0 −117.2 ± 745.8

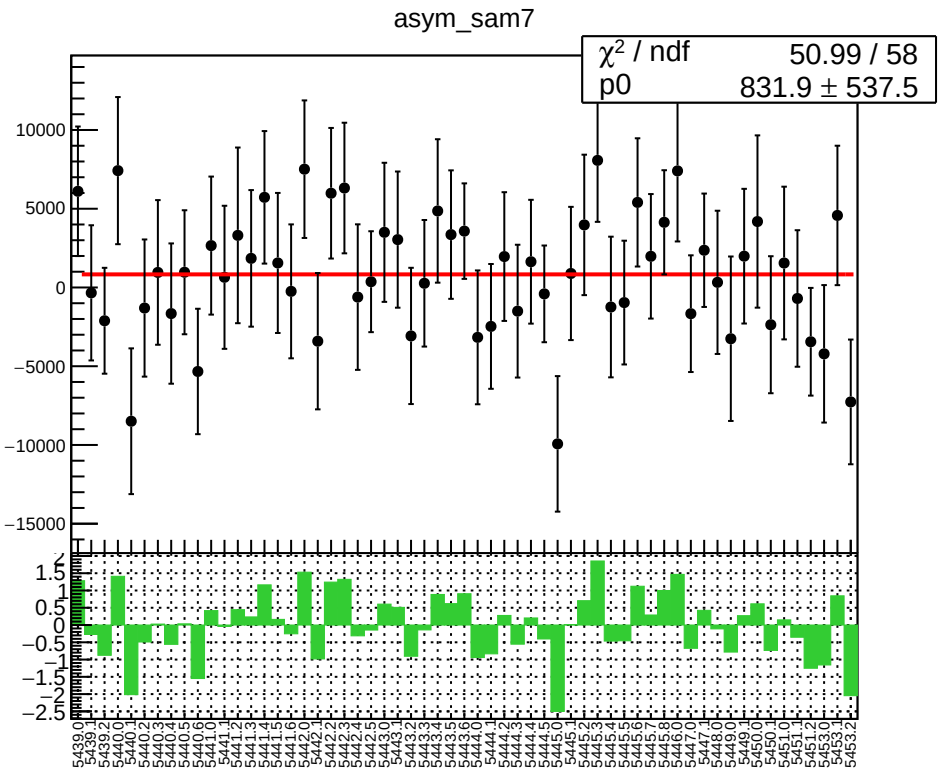

1D pull distribution
Mean 0.008326 ± 0.145
Std Dev 1.114 ± 0.1025
Underflow 0
Overflow 0
χ² / ndf 11.56 / 7
Constant 9.71 ± 2.02
Mean −0.03218 ± 0.20564
Sigma 1.07 ± 0.18

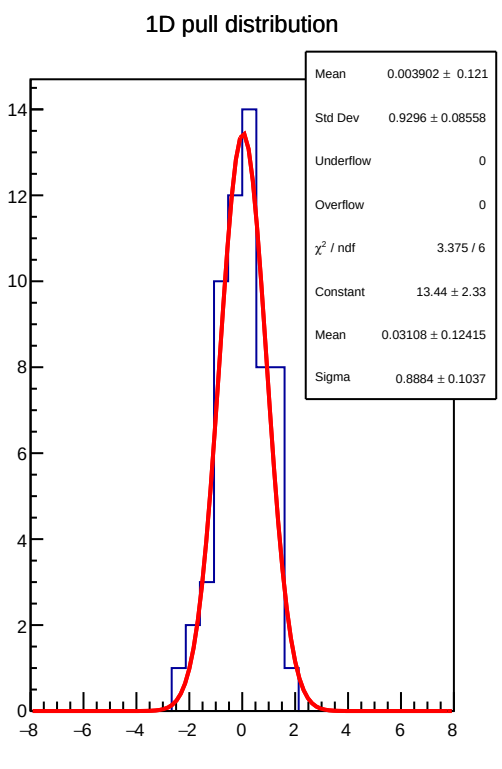

asym_sam5 RMS (ppm)
RMS (ppm)
750
700
650
600
550
500
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

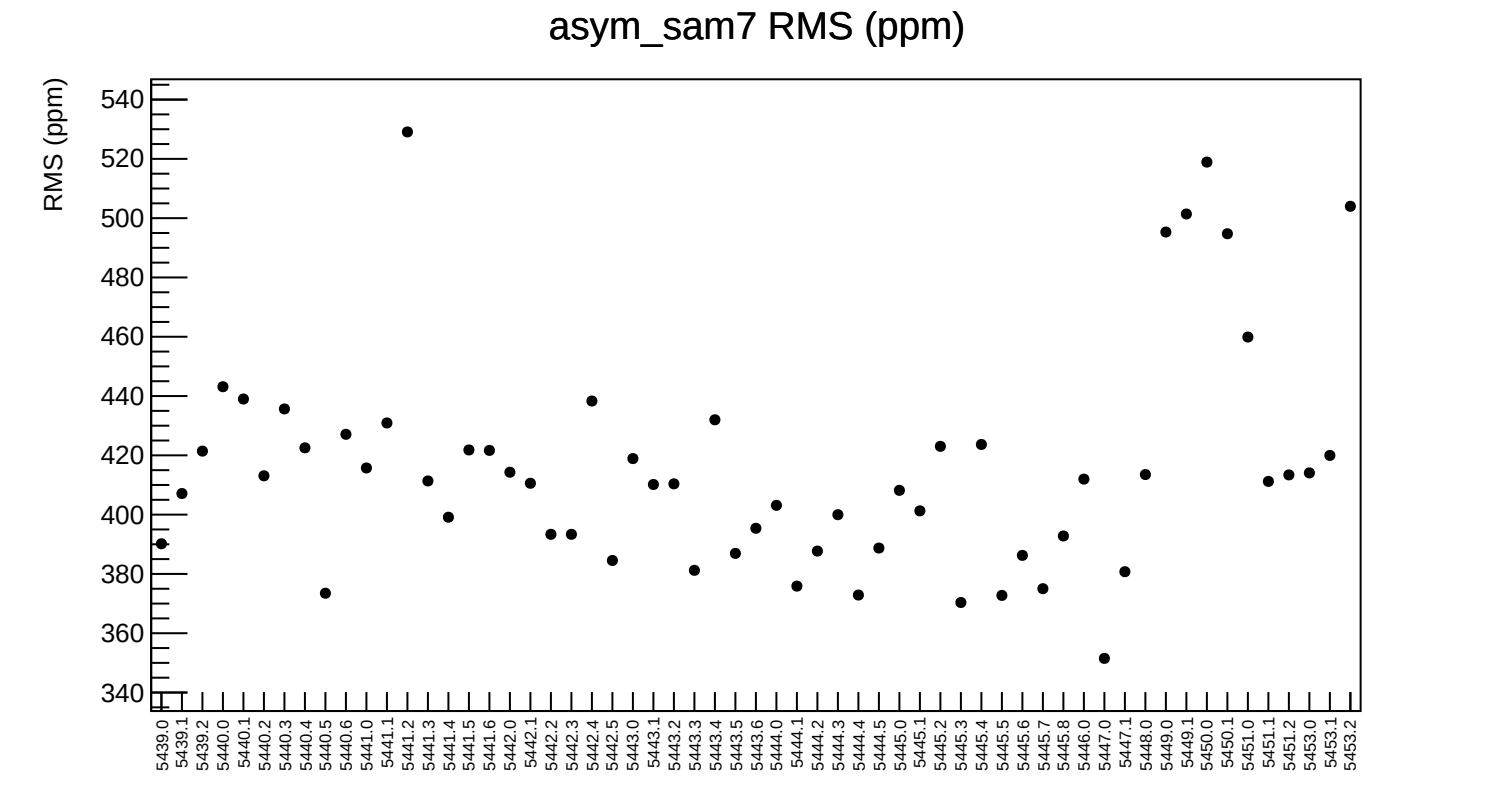

asym_sam6
χ² / ndf 71.89 / 58
p0 −693.4 ± 474.6
15000
10000
5000
0
−5000
−10000
3
2
1
0
−1
−2
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5450.2
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

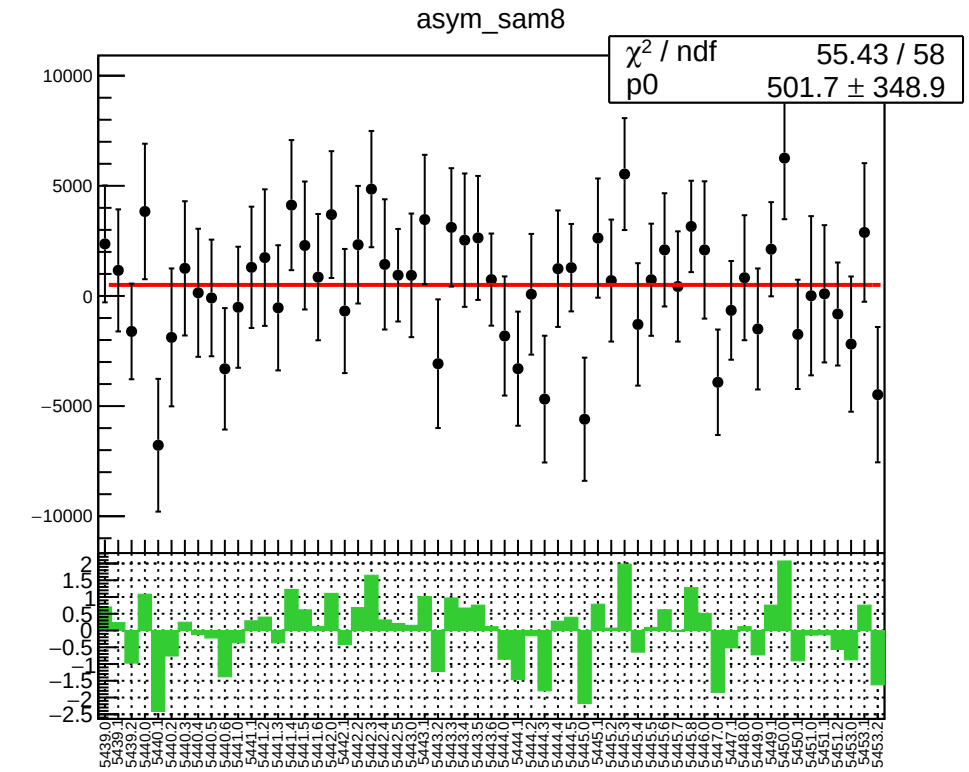

1D pull distribution
Mean 0.007207 ± 0.1437
Std Dev 1.104 ± 0.1016
Underflow 0
Overflow 0
χ² / ndf 3.037 / 7
Constant 11.37 ± 2.05
Mean −0.07677 ± 0.16064
Sigma 1.081 ± 0.153
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

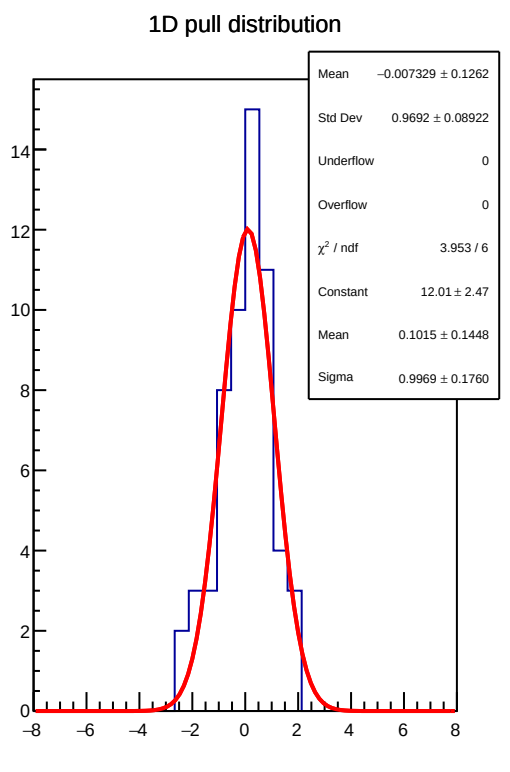

asym_sam6 RMS (ppm)
RMS (ppm)
460
440
420
400
380
360
340
320
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

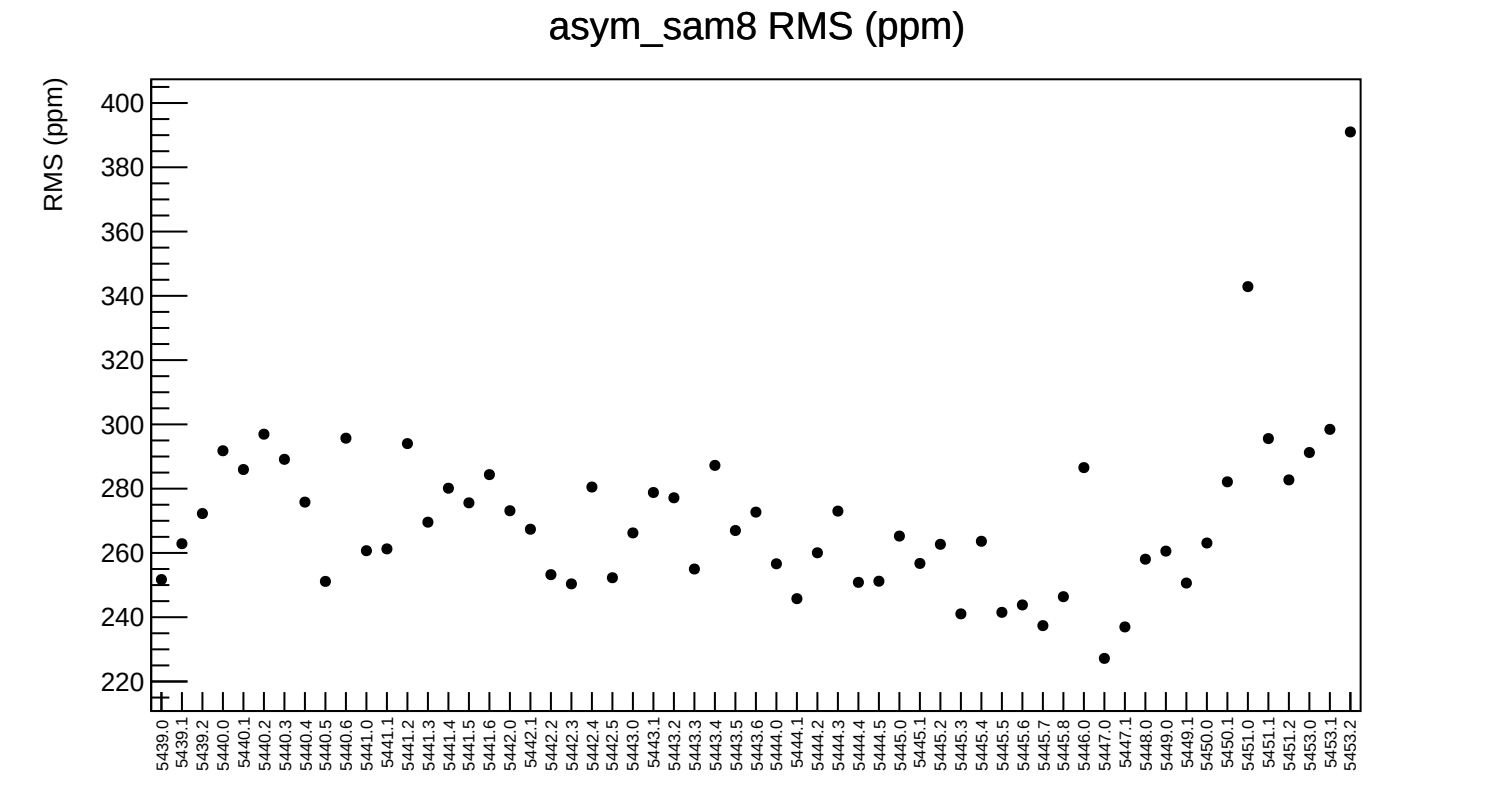

asym_sam7
χ² / ndf 50.99 / 58
p0 831.9 ± 537.5
10000
5000
0
−5000
−10000
−15000
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

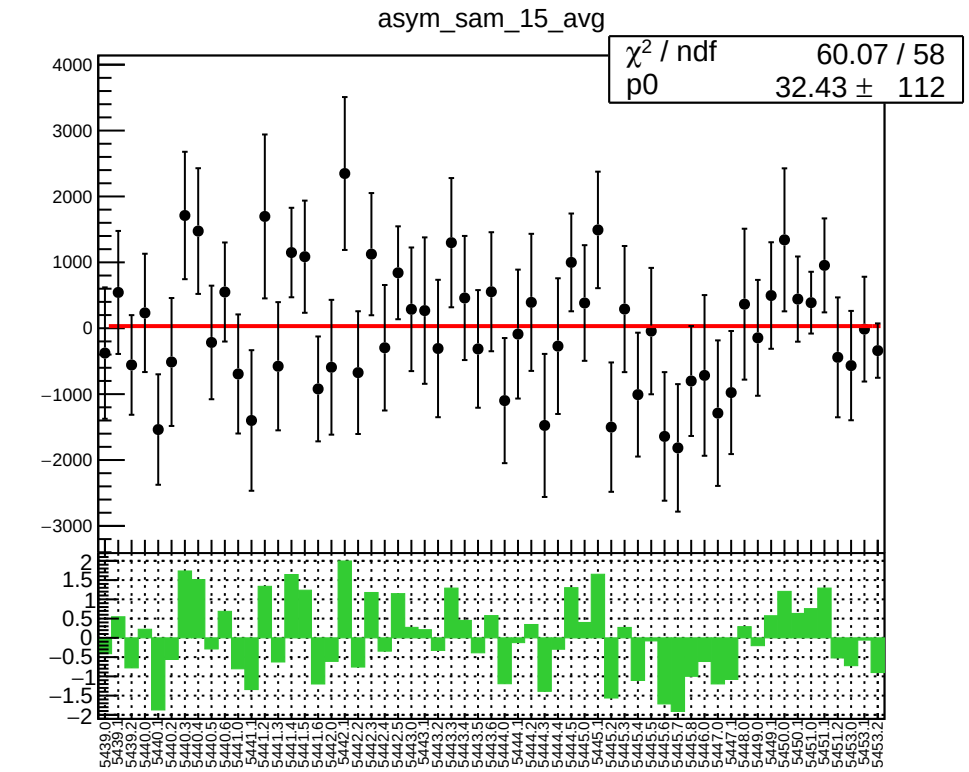

1D pull distribution
Mean 0.003902 ± 0.121
Std Dev 0.9296 ± 0.08558
Underflow 0
Overflow 0
χ² / ndf 3.375 / 6
Constant 13.44 ± 2.33
Mean 0.03108 ± 0.12415
Sigma 0.8884 ± 0.1037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

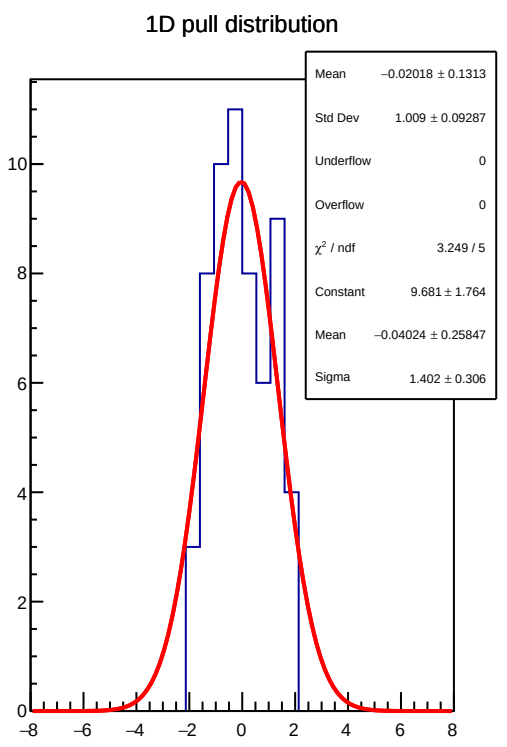

asym_sam7 RMS (ppm)
RMS (ppm)
540
520
500
480
460
440
420
400
380
360
340
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

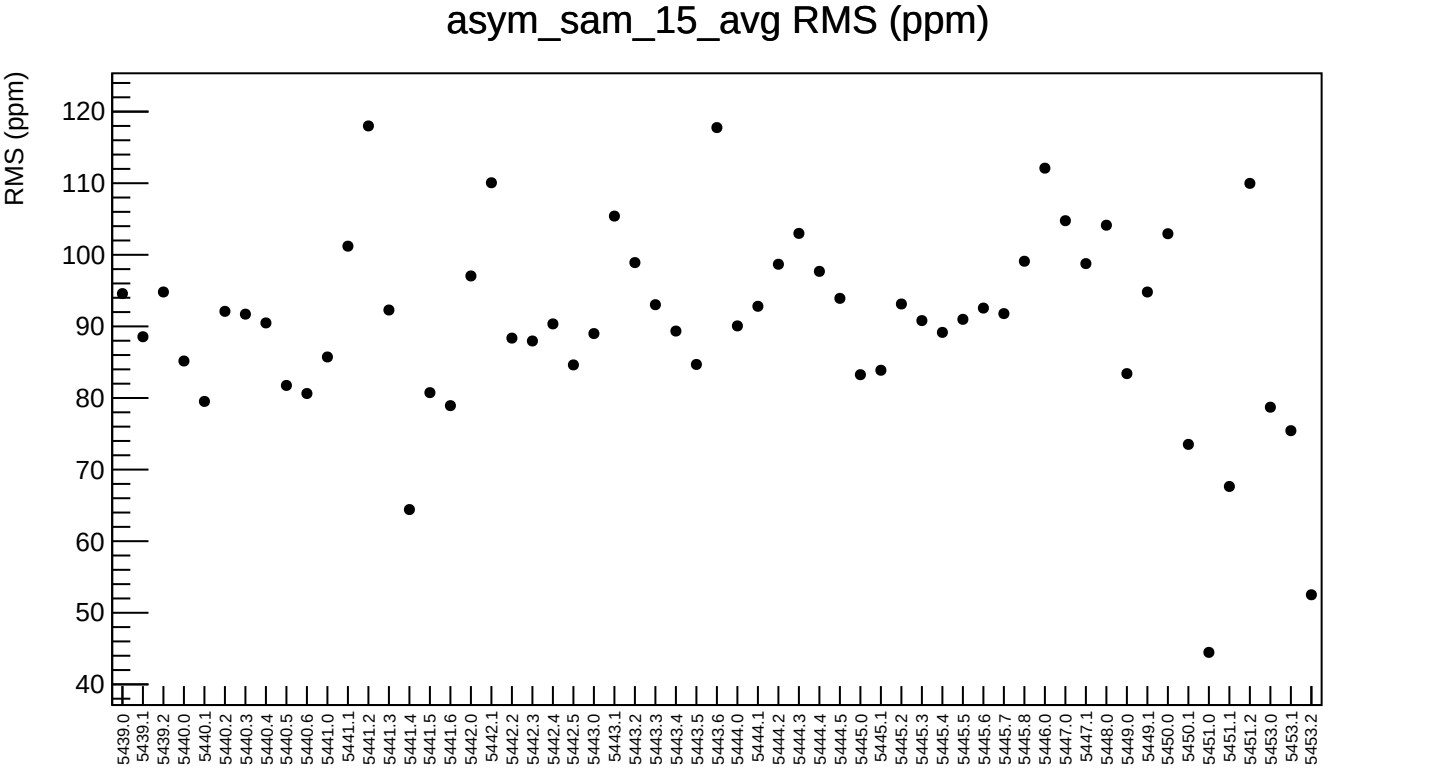

asym_sam8
χ² / ndf 55.43 / 58
p0 501.7 ± 348.9

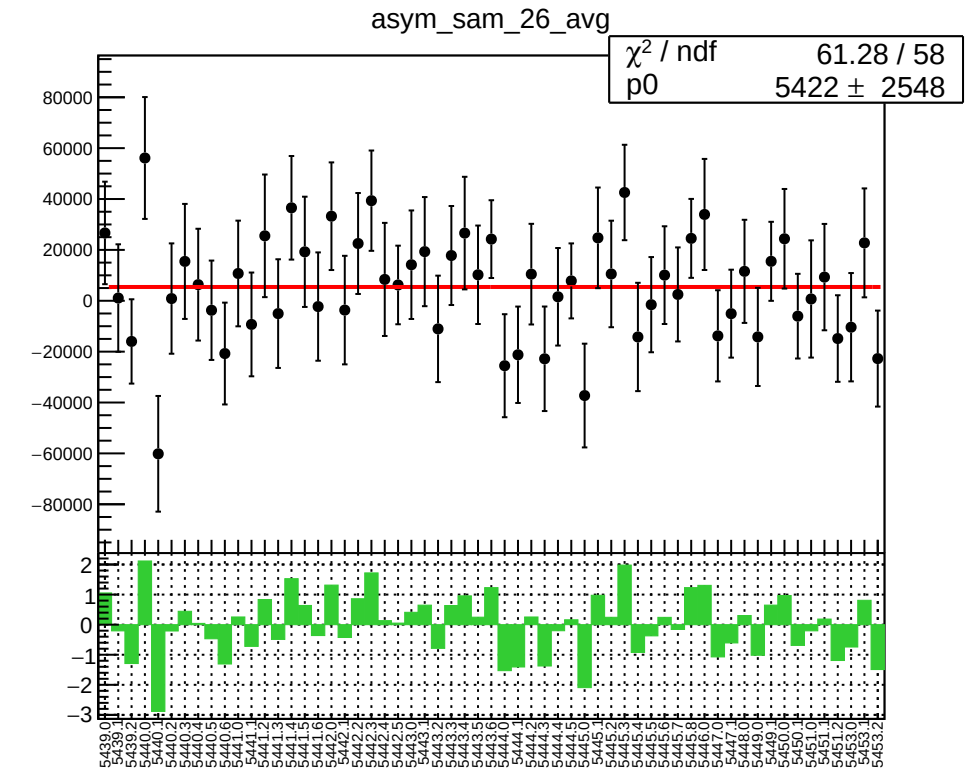

1D pull distribution
Mean −0.007329 ± 0.1262
Std Dev 0.9692 ± 0.08922
Underflow 0
Overflow 0
χ² / ndf 3.953 / 6
Constant 12.01 ± 2.47
Mean 0.1015 ± 0.1448
Sigma 0.9969 ± 0.1760

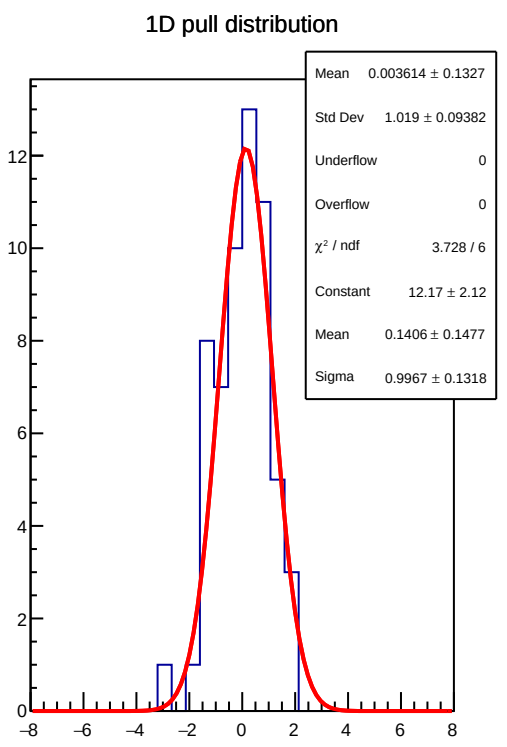

asym_sam8 RMS (ppm)
RMS (ppm)
400
380
360
340
320
300
280
260
240
220
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

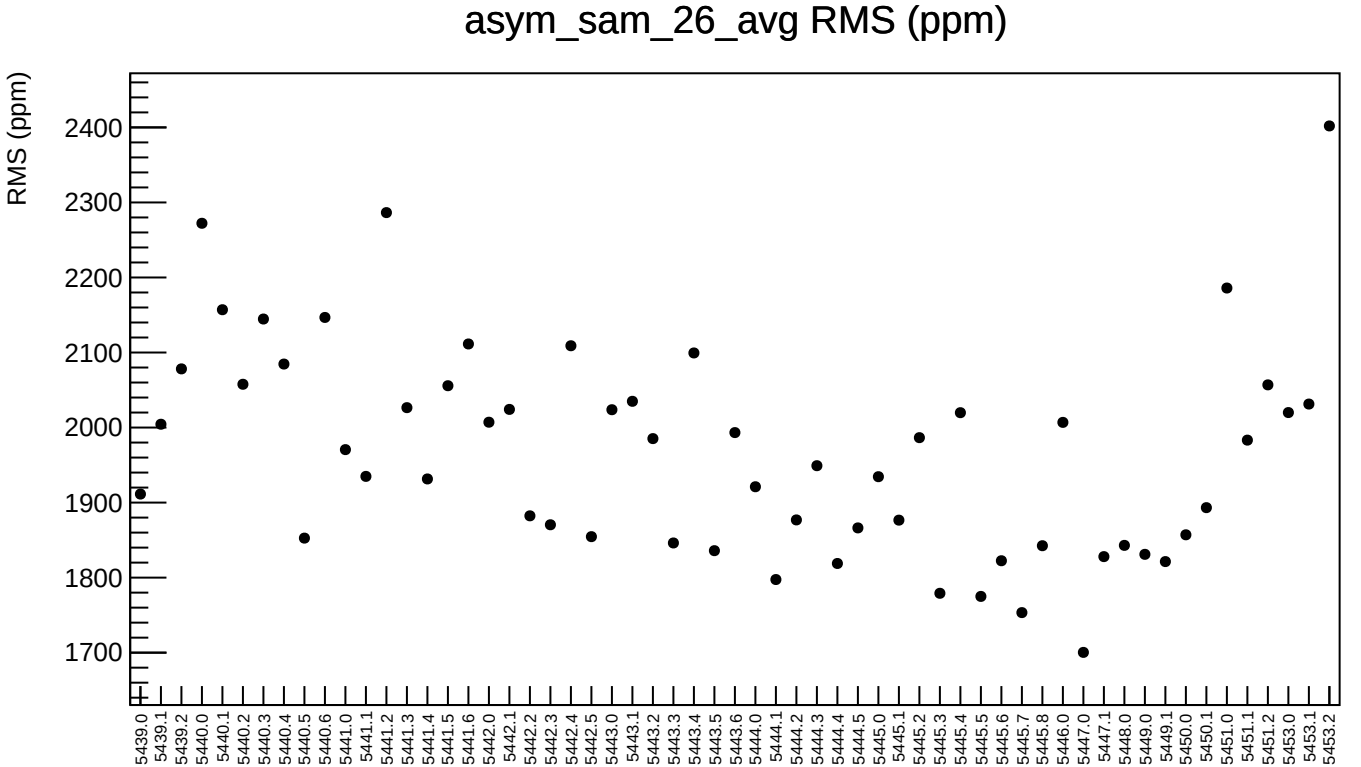

asym_sam_15_avg
χ² / ndf 60.07 / 58
p0 32.43 ± 112

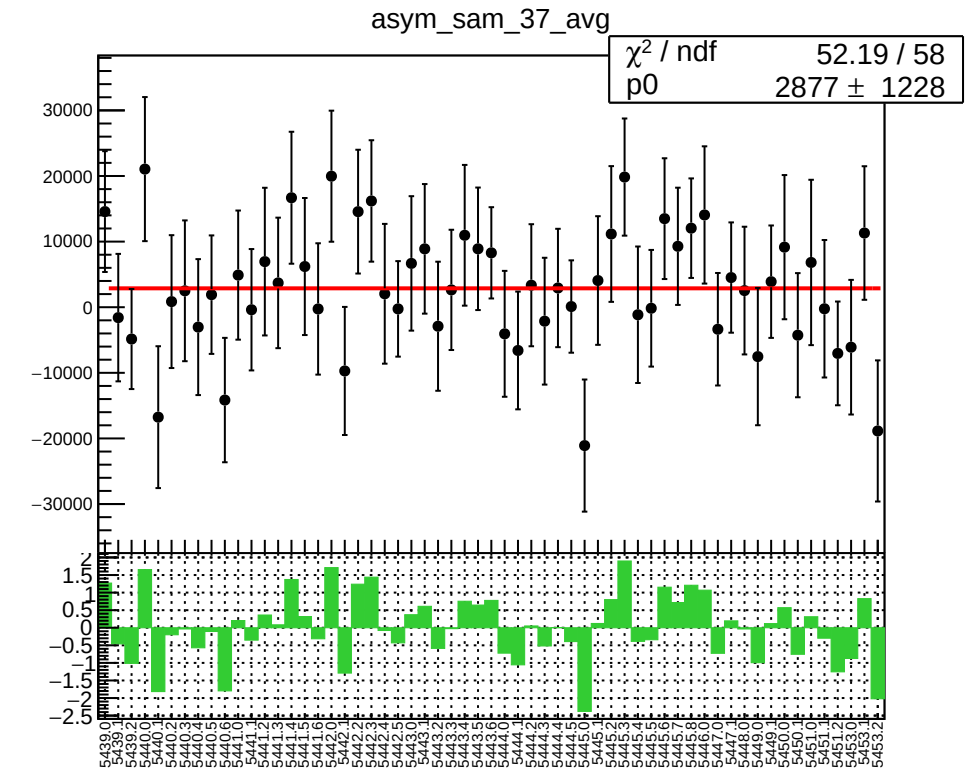

1D pull distribution
Mean −0.02018 ± 0.1313
Std Dev 1.009 ± 0.09287
Underflow 0
Overflow 0
χ² / ndf 3.249 / 5
Constant 9.681 ± 1.764
Mean −0.04024 ± 0.25847
Sigma 1.402 ± 0.306

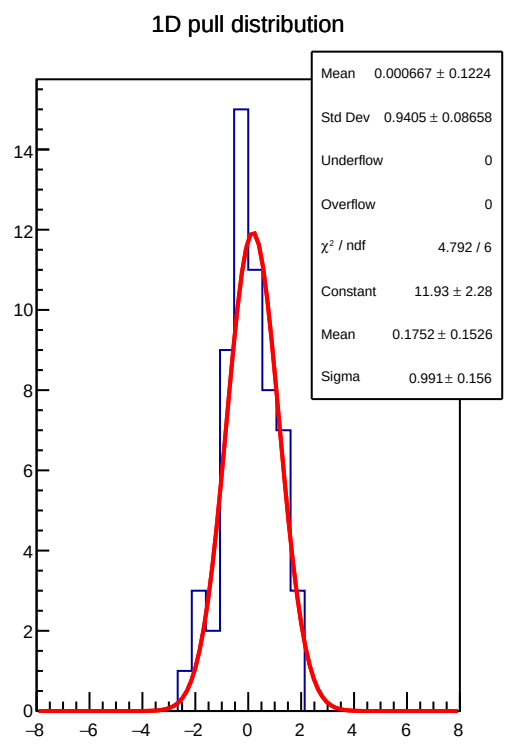

asym_sam_15_avg RMS (ppm)
RMS (ppm)
120
110
100
90
80
70
60
50
40
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

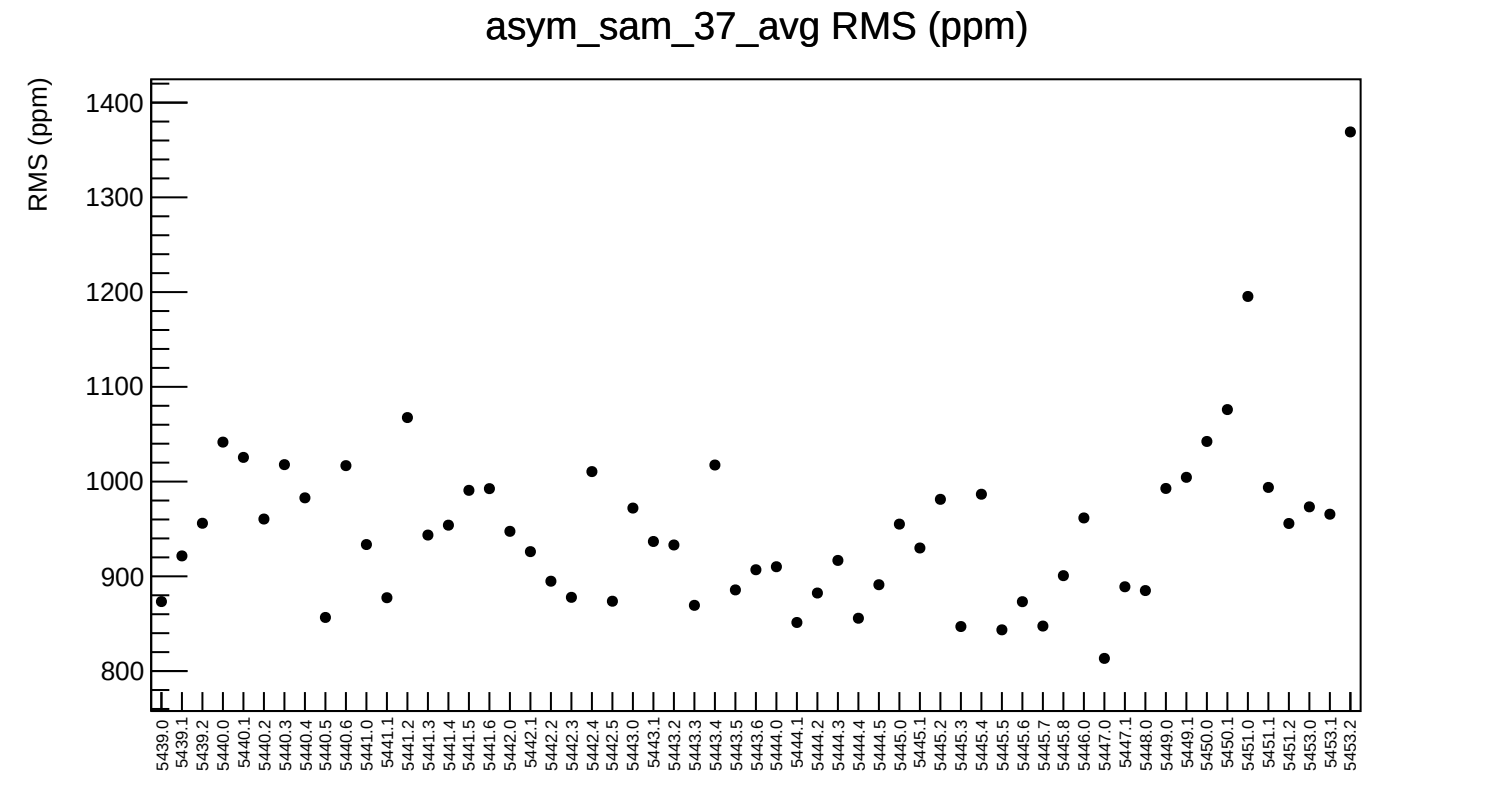

asym_sam_26_avg
χ² / ndf 61.28 / 58
p0 5422 ± 2548

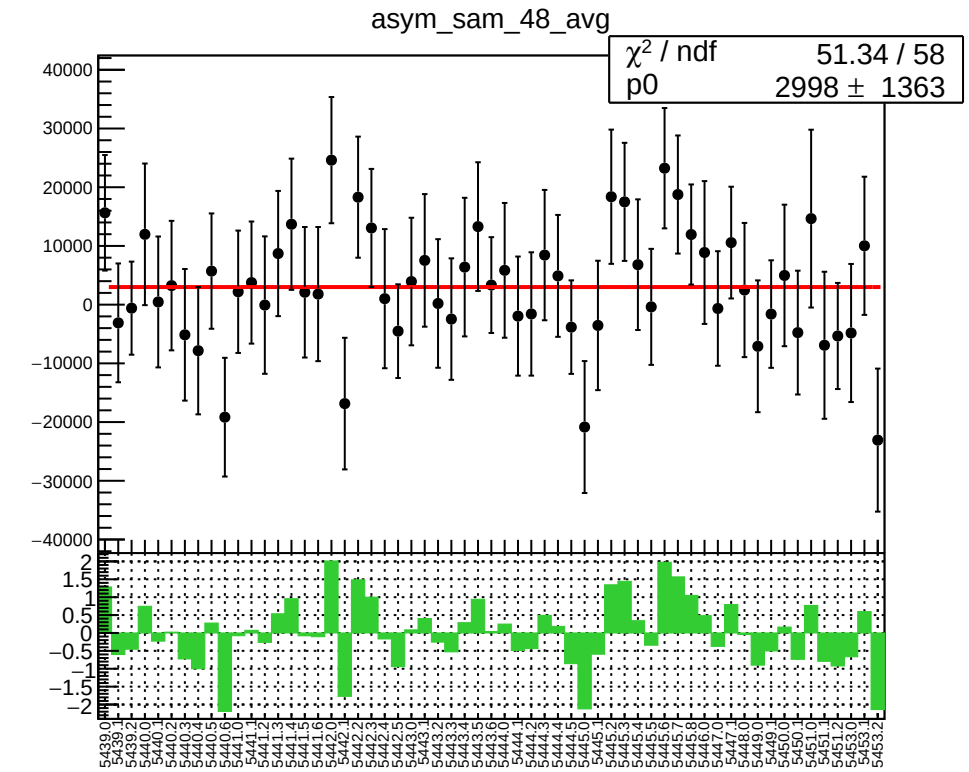

1D pull distribution
Mean 0.003614 ± 0.1327
Std Dev 1.019 ± 0.09382
Underflow 0
Overflow 0
χ² / ndf 3.728 / 6
Constant 12.17 ± 2.12
Mean 0.1406 ± 0.1477
Sigma 0.9967 ± 0.1318

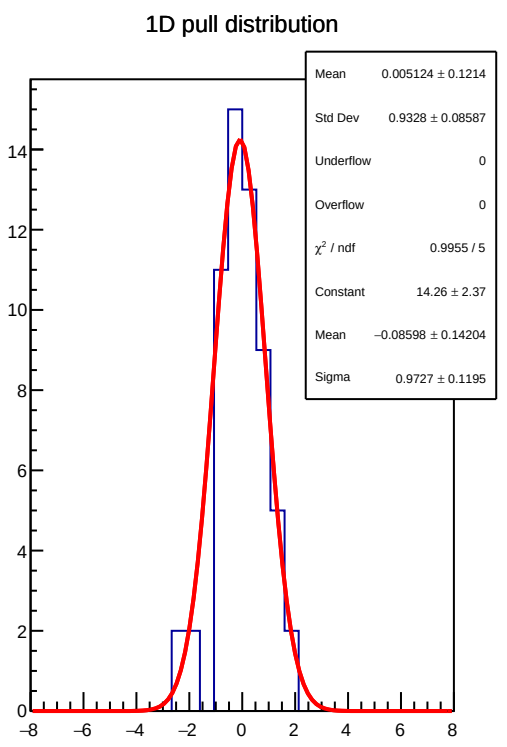

asym_sam_26_avg RMS (ppm)
RMS (ppm)
2400
2300
2200
2100
2000
1900
1800
1700
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

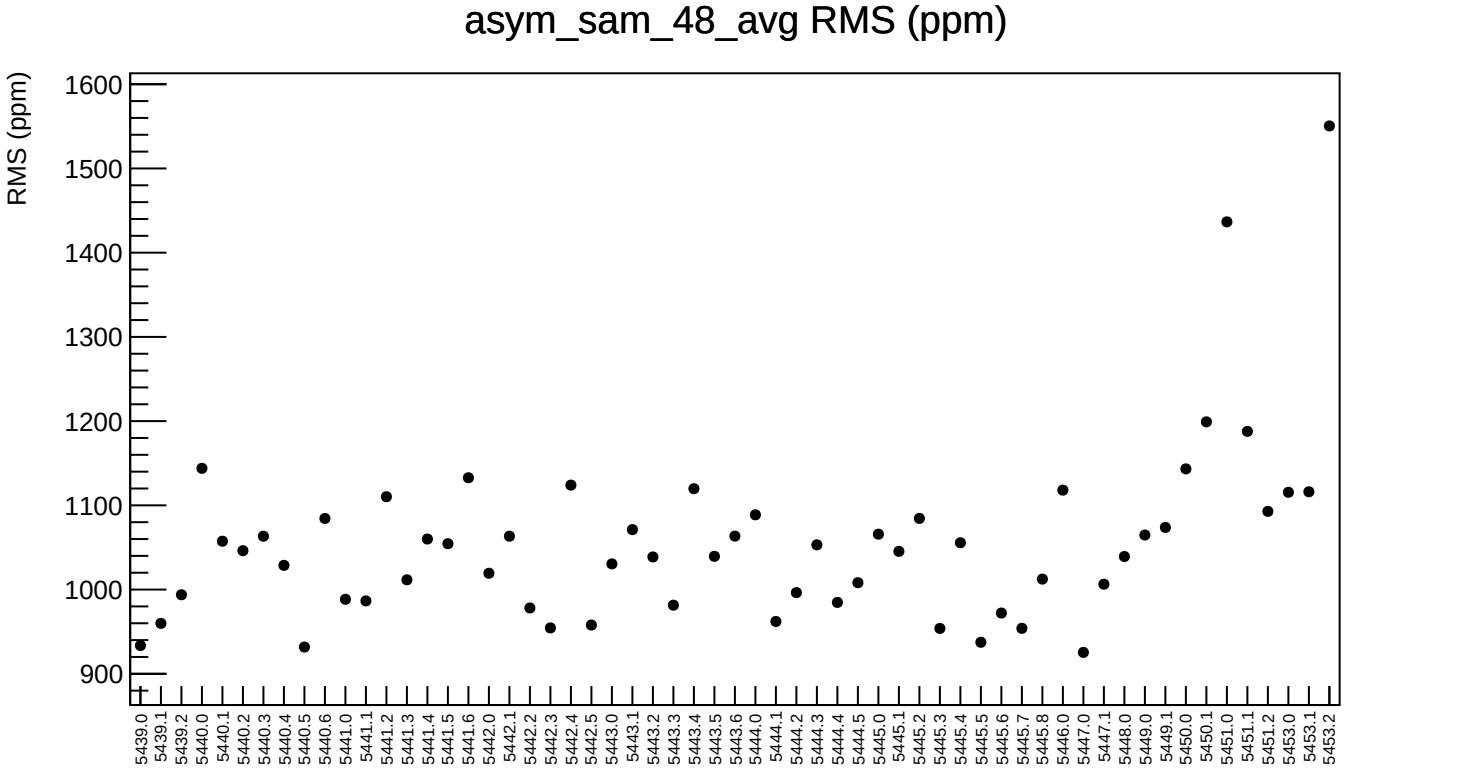

asym_sam_37_avg
χ² / ndf 52.19 / 58
p0 2877 ± 1228

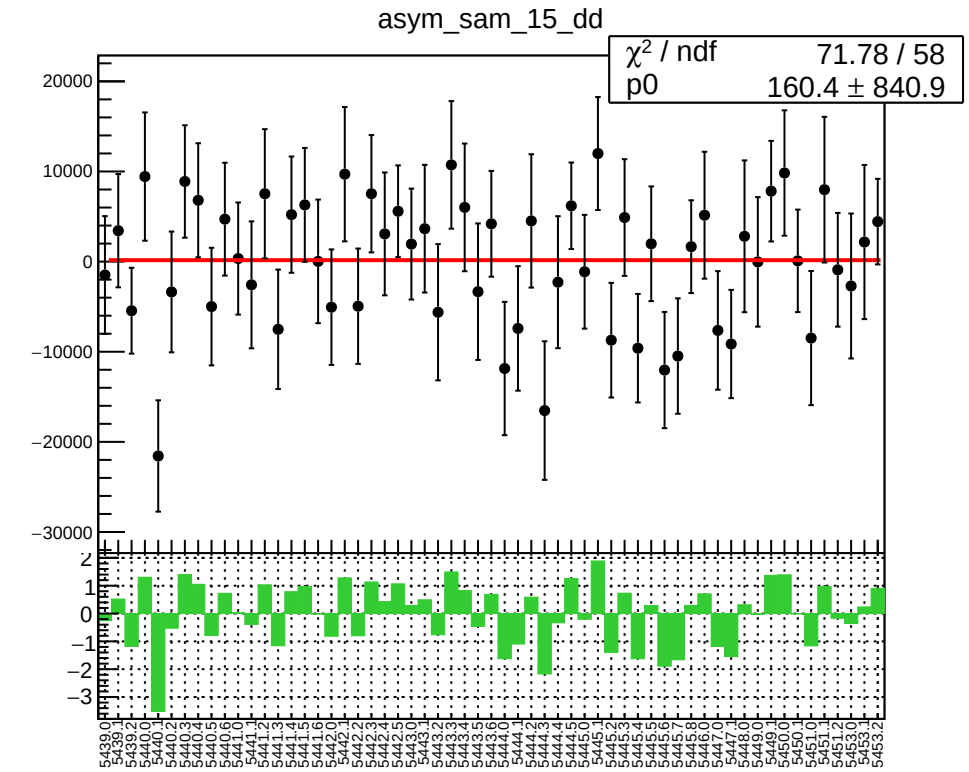

1D pull distribution
Mean 0.000667 ± 0.1224
Std Dev 0.9405 ± 0.08658
Underflow 0
Overflow 0
χ² / ndf 4.792 / 6
Constant 11.93 ± 2.28
Mean 0.1752 ± 0.1526
Sigma 0.991 ± 0.156

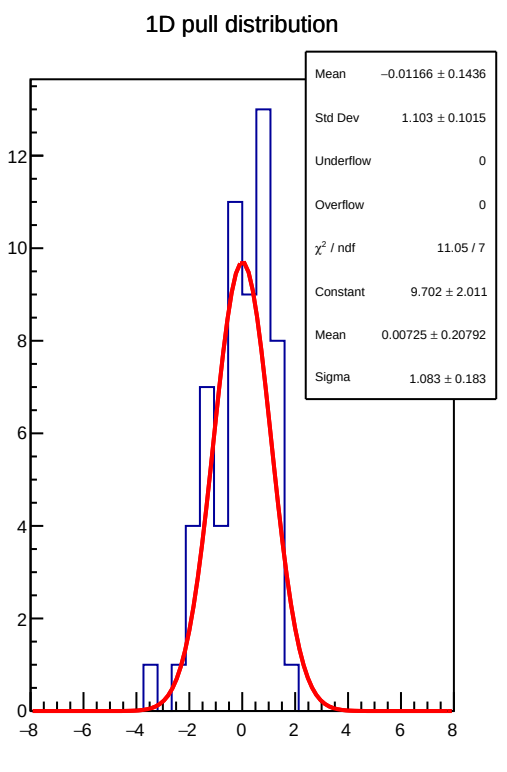

asym_sam_37_avg RMS (ppm)
RMS (ppm)
1400
1300
1200
1100
1000
900
800
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

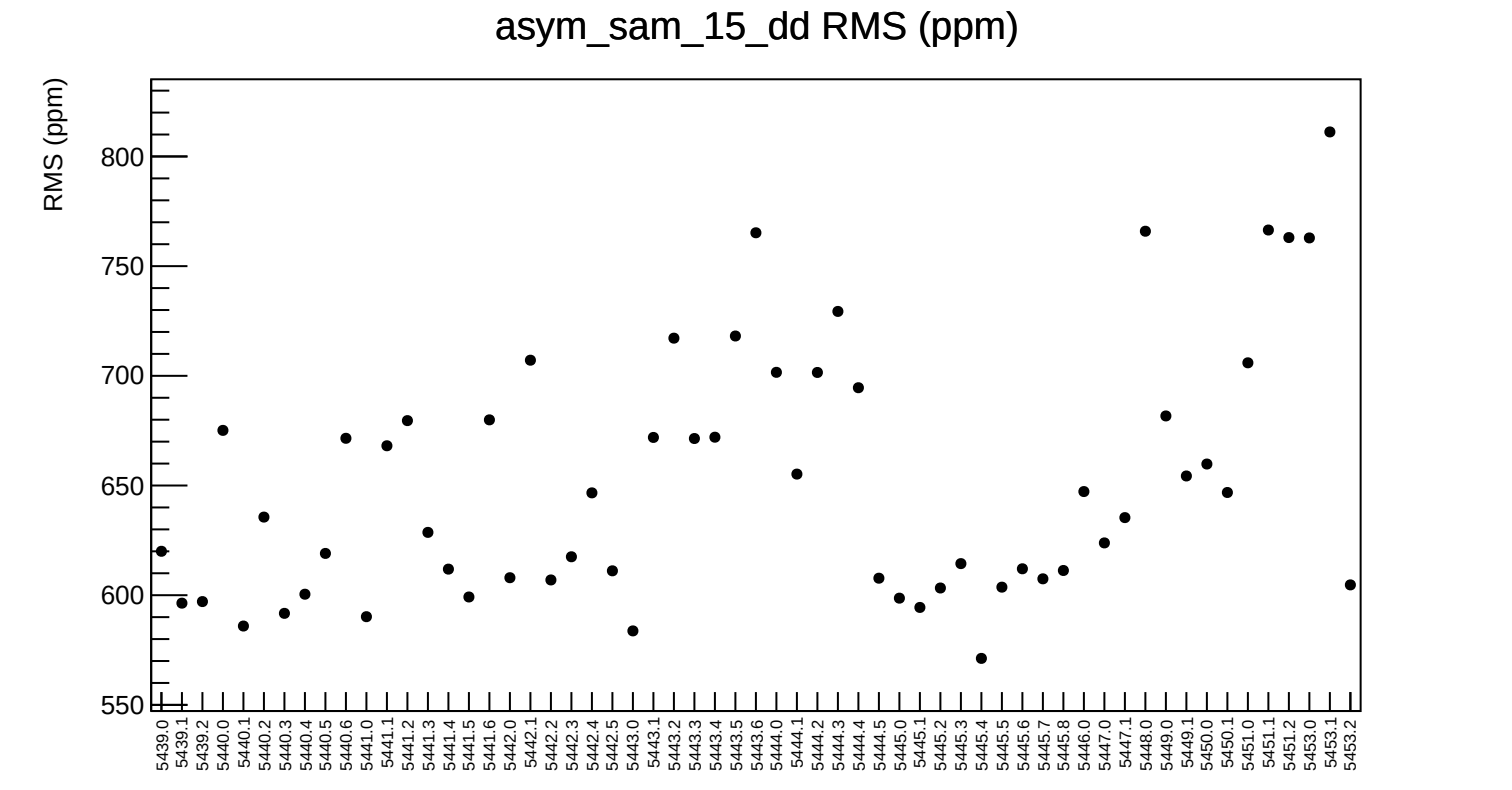

asym_sam_48_avg
χ² / ndf 51.34 / 58
p0 2998 ± 1363

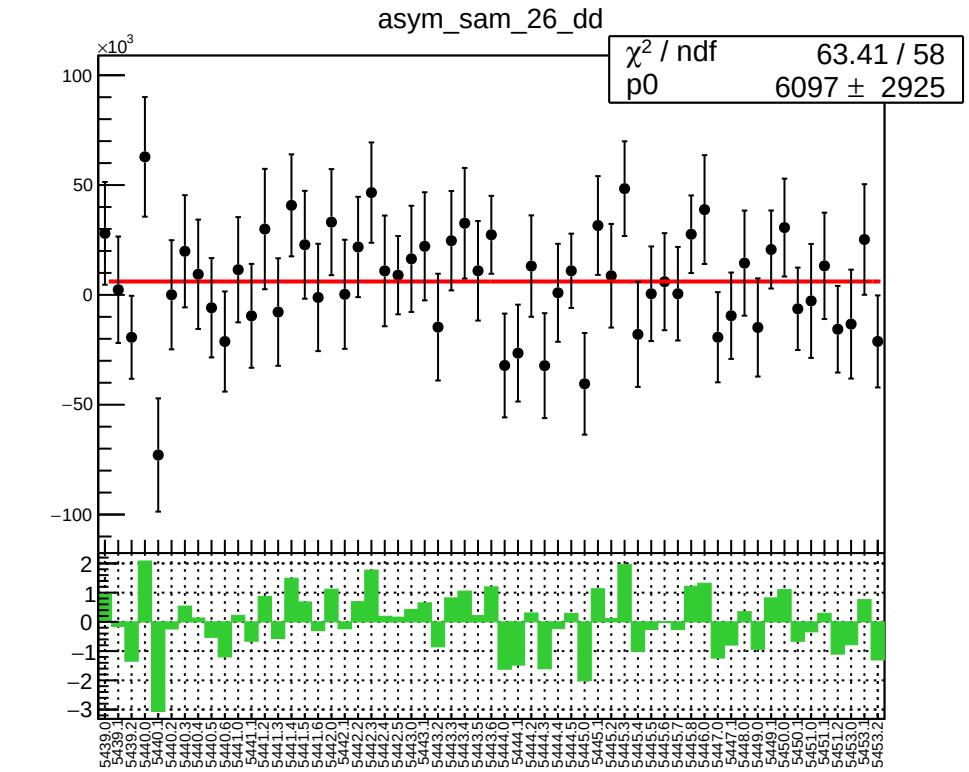

1D pull distribution
Mean 0.005124 ± 0.1214
Std Dev 0.9328 ± 0.08587
Underflow 0
Overflow 0
χ² / ndf 0.9955 / 5
Constant 14.26 ± 2.37
Mean −0.08598 ± 0.14204
Sigma 0.9727 ± 0.1195

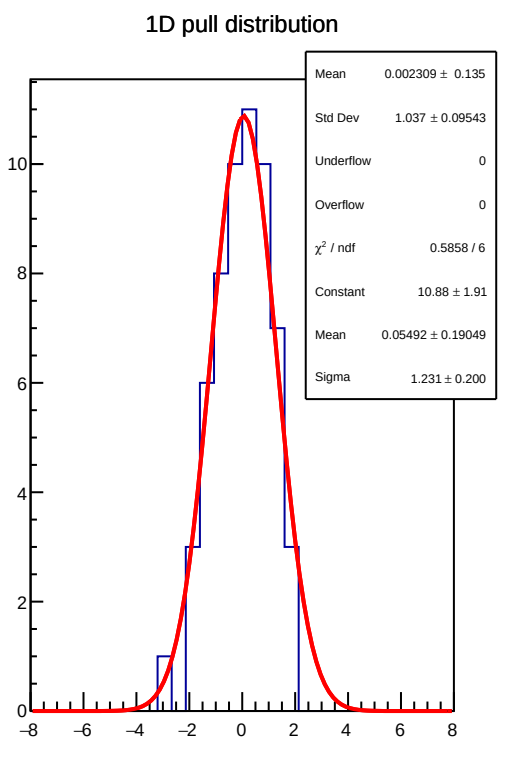

asym_sam_48_avg RMS (ppm)
RMS (ppm)
1600
1500
1400
1300
1200
1100
1000
900
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

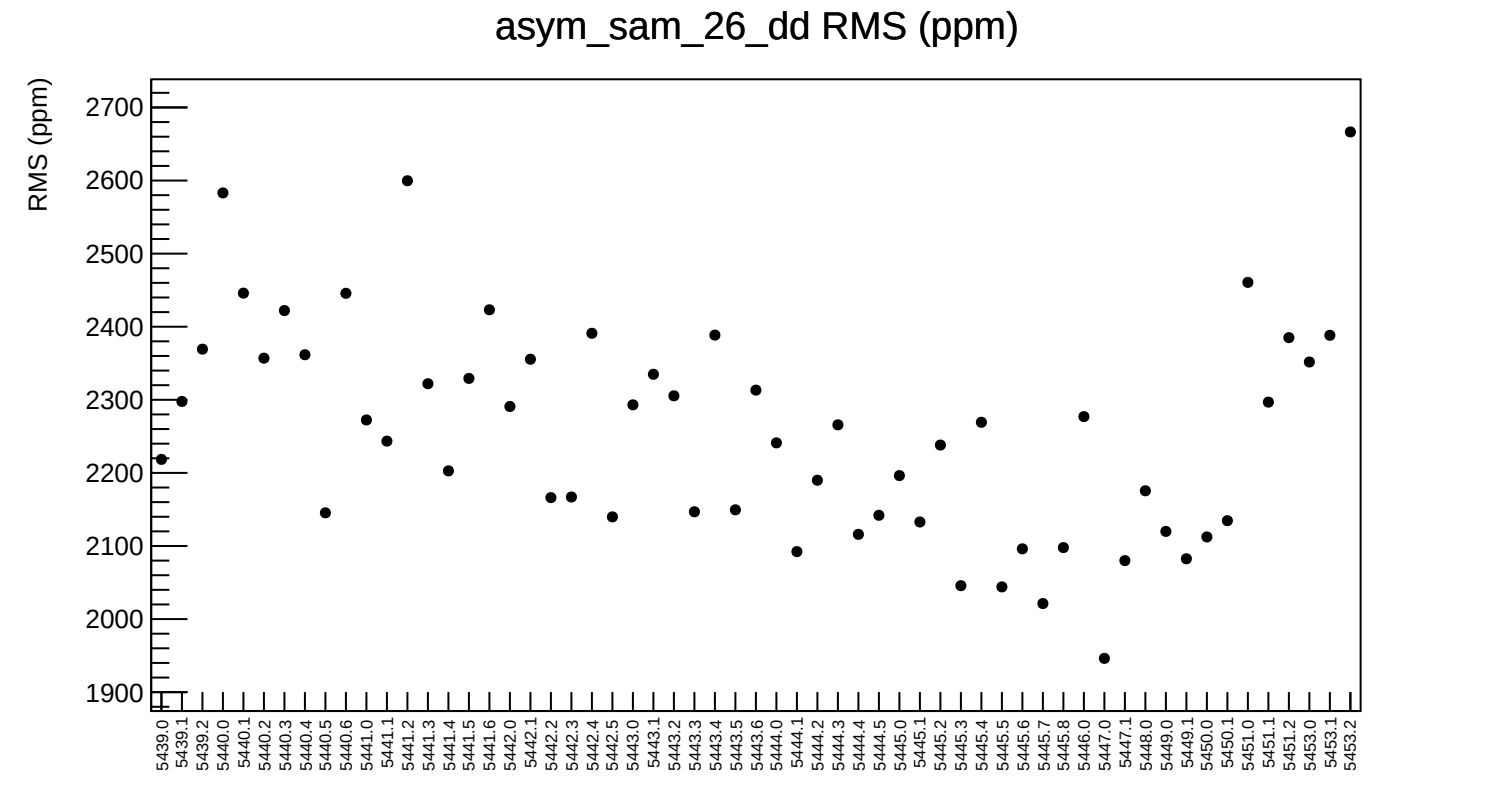

asym_sam_15_dd
χ² / ndf 71.78 / 58
p0 160.4 ± 840.9

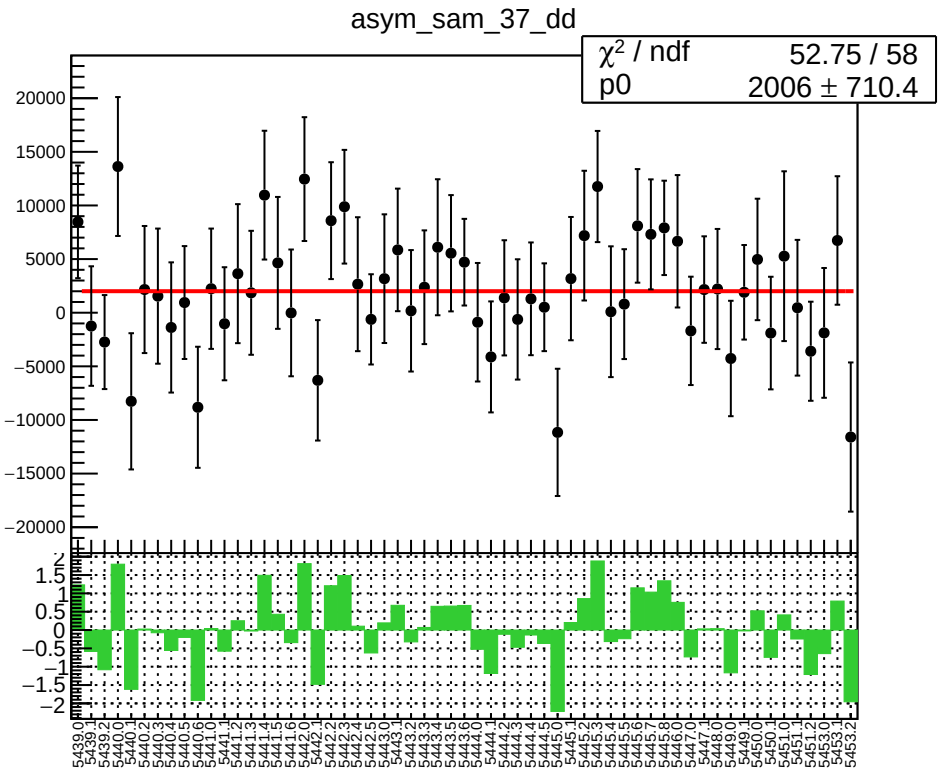

1D pull distribution
Mean −0.01166 ± 0.1436
Std Dev 1.103 ± 0.1015
Underflow 0
Overflow 0
χ² / ndf 11.05 / 7
Constant 9.702 ± 2.011
Mean 0.00725 ± 0.20792
Sigma 1.083 ± 0.183

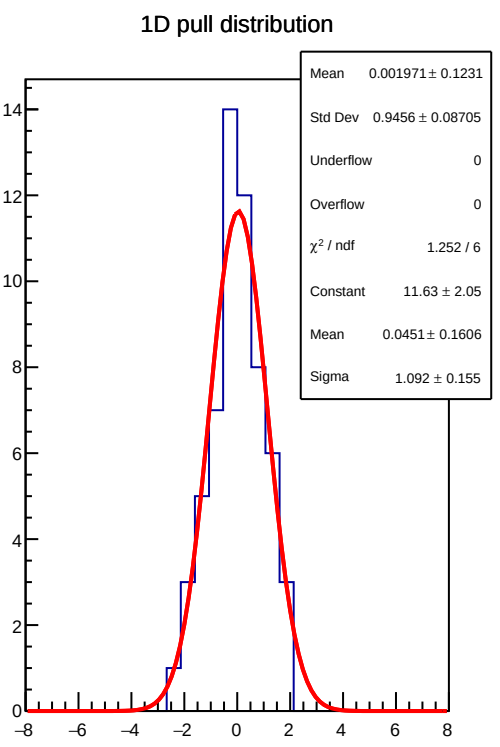

asym_sam_15_dd RMS (ppm)
RMS (ppm)
550
600
650
700
750
800
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

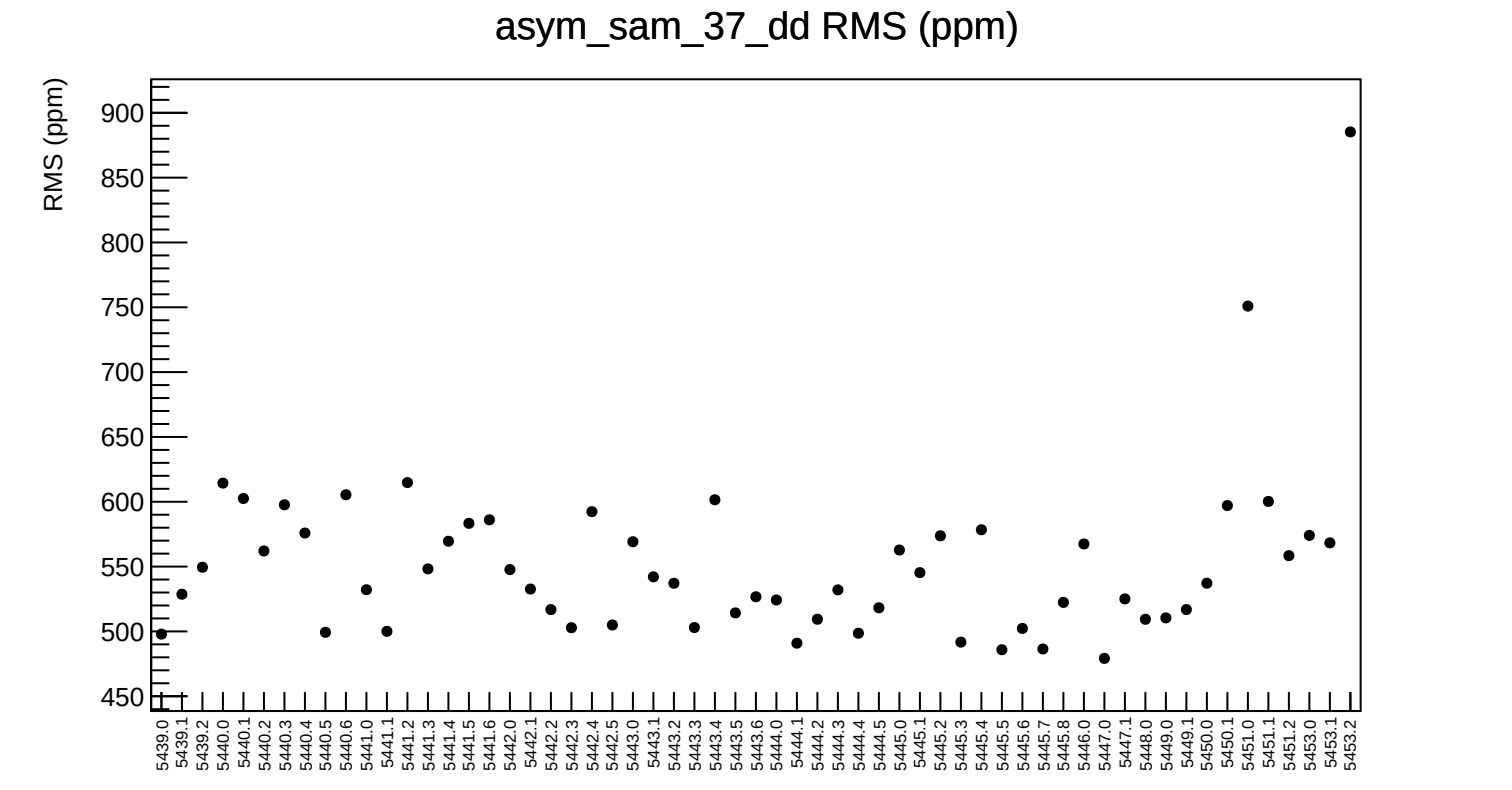

asym_sam_26_dd
χ² / ndf 63.41 / 58
p0 6097 ± 2925
×10³

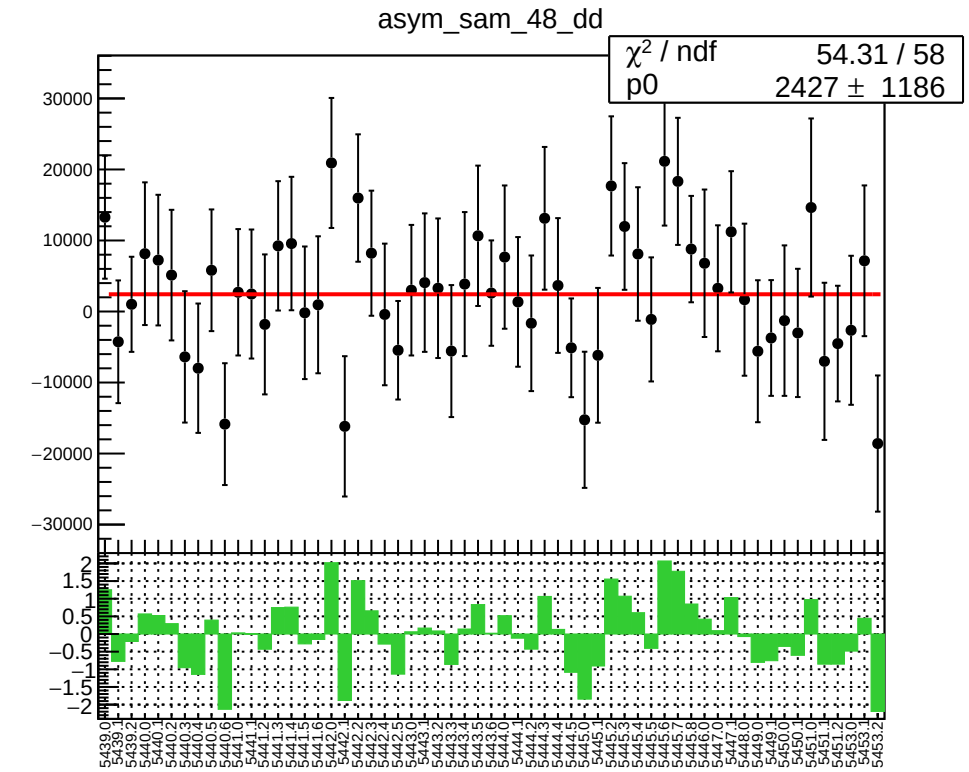

1D pull distribution
Mean 0.002309 ± 0.135
Std Dev 1.037 ± 0.09543
Underflow 0
Overflow 0
χ² / ndf 0.5858 / 6
Constant 10.88 ± 1.91
Mean 0.05492 ± 0.19049
Sigma 1.231 ± 0.200

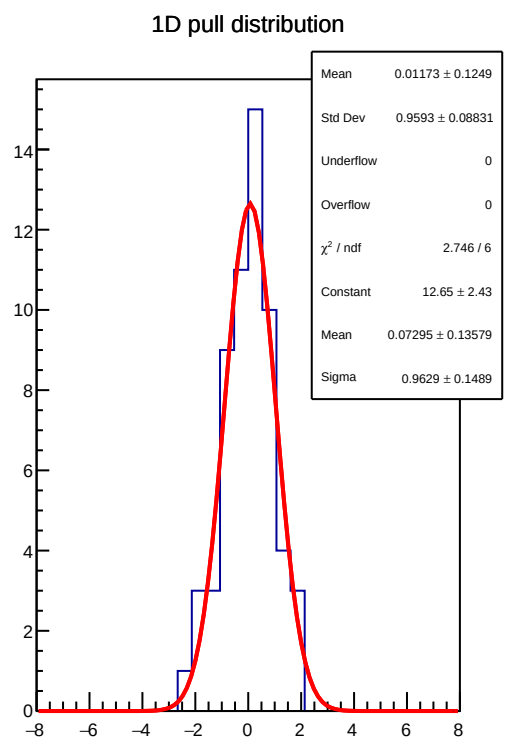

asym_sam_26_dd RMS (ppm)
RMS (ppm)
2700
2600
2500
2400
2300
2200
2100
2000
1900
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

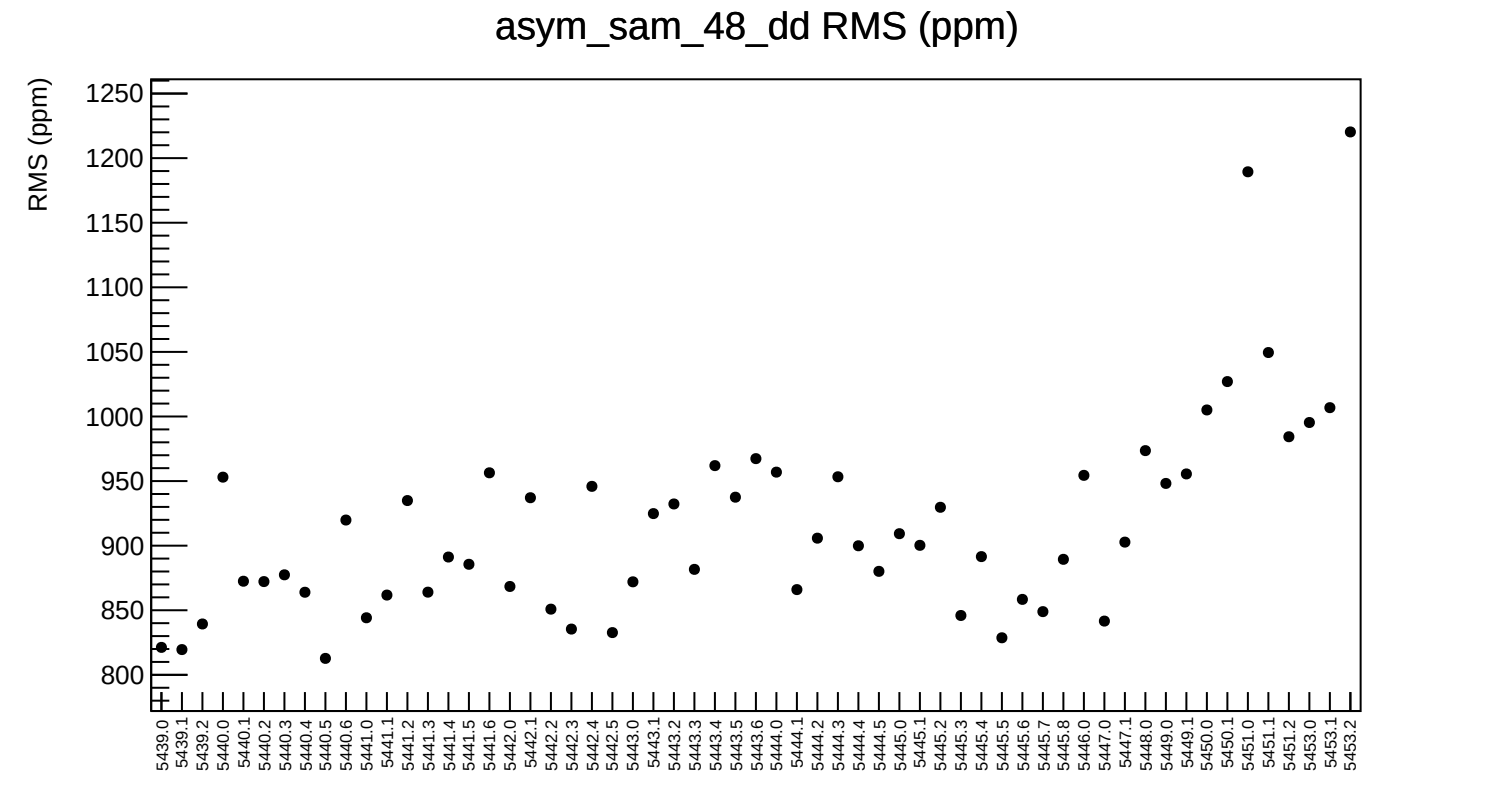

asym_sam_37_dd
χ² / ndf 52.75 / 58
p0 2006 ± 710.4

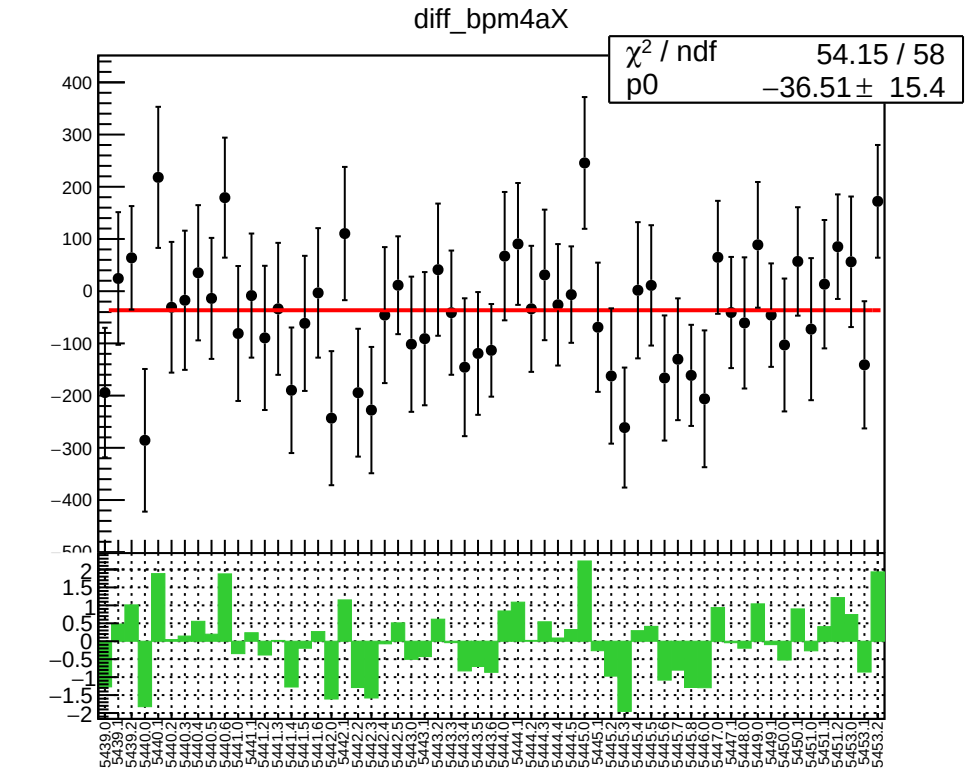

1D pull distribution
Mean 0.001971 ± 0.1231
Std Dev 0.9456 ± 0.08705
Underflow 0
Overflow 0
χ² / ndf 1.252 / 6
Constant 11.63 ± 2.05
Mean 0.0451 ± 0.1606
Sigma 1.092 ± 0.155

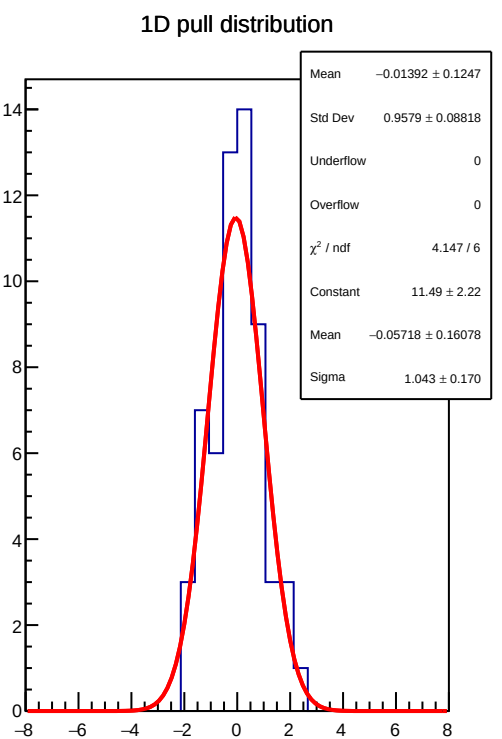

asym_sam_37_dd RMS (ppm)
RMS (ppm)
900
850
800
750
700
650
600
550
500
450
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

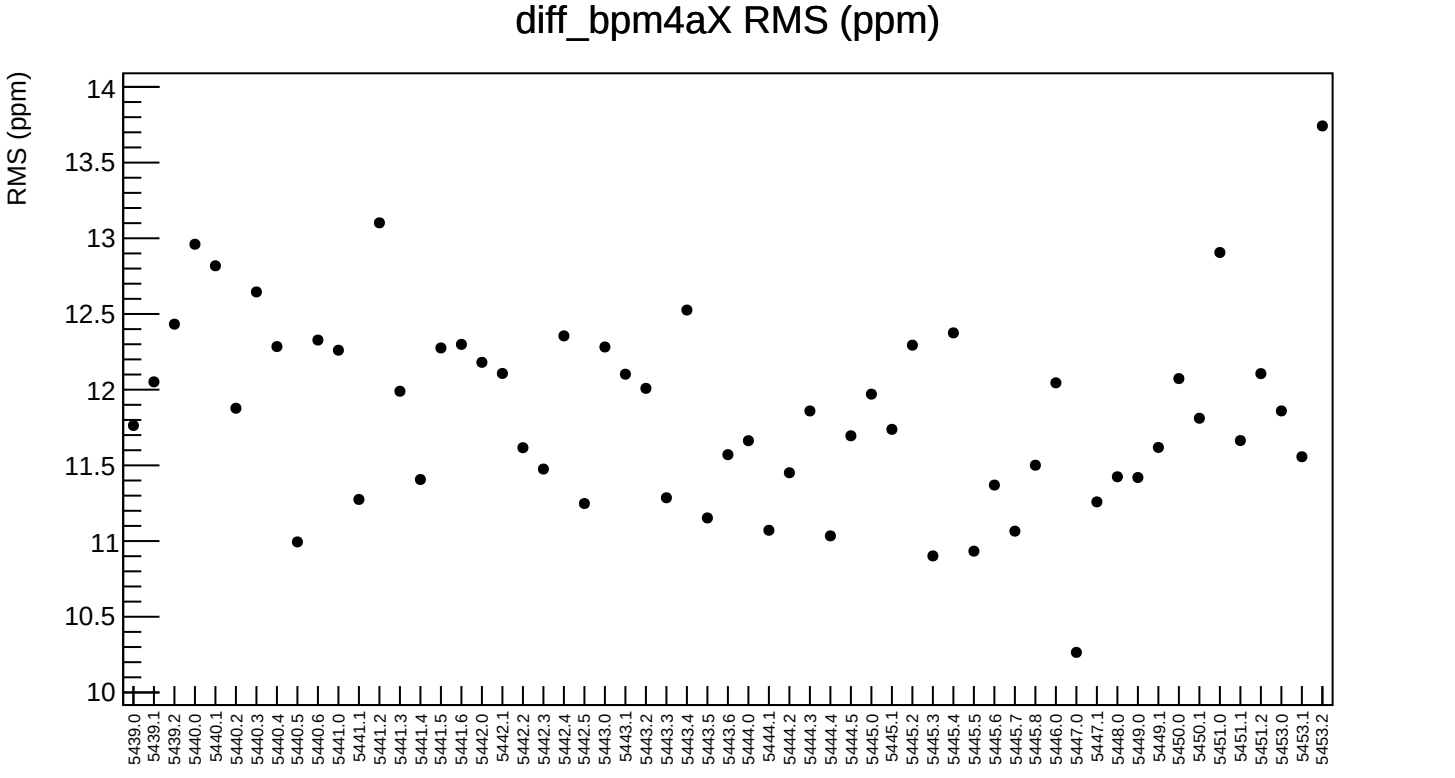

asym_sam_48_dd
χ² / ndf 54.31 / 58
p0 2427 ± 1186

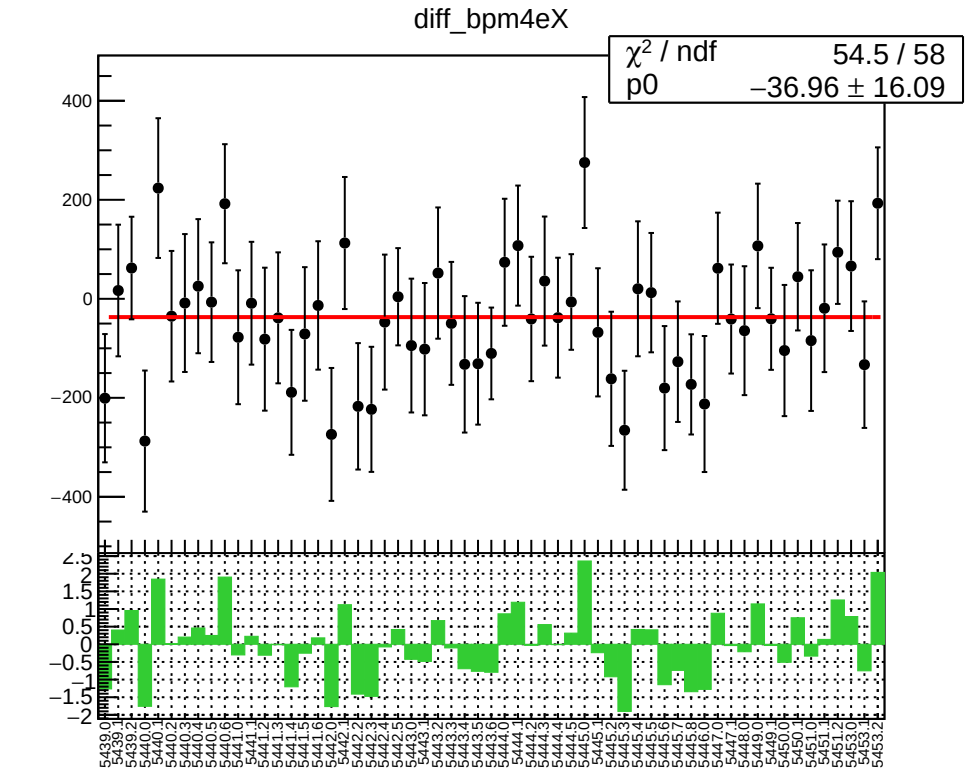

1D pull distribution
Mean 0.01173 ± 0.1249
Std Dev 0.9593 ± 0.08831
Underflow 0
Overflow 0
χ² / ndf 2.746 / 6
Constant 12.65 ± 2.43
Mean 0.07295 ± 0.13579
Sigma 0.9629 ± 0.1489

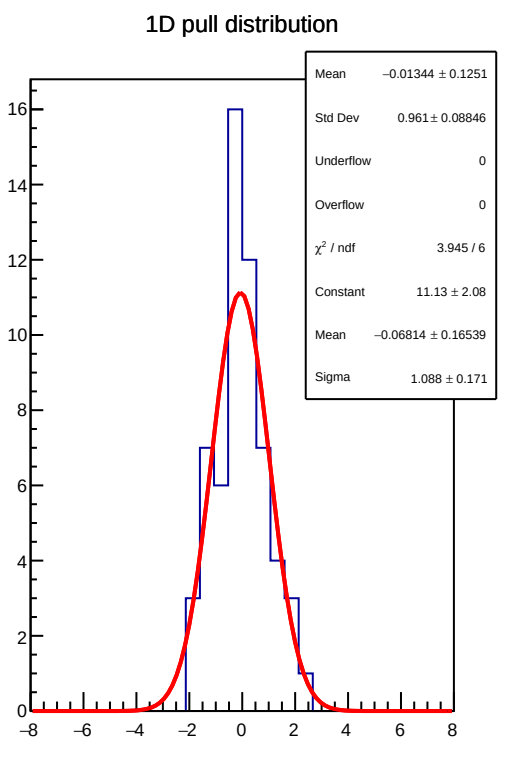

asym_sam_48_dd RMS (ppm)
RMS (ppm)
1250
1200
1150
1100
1050
1000
950
900
850
800
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

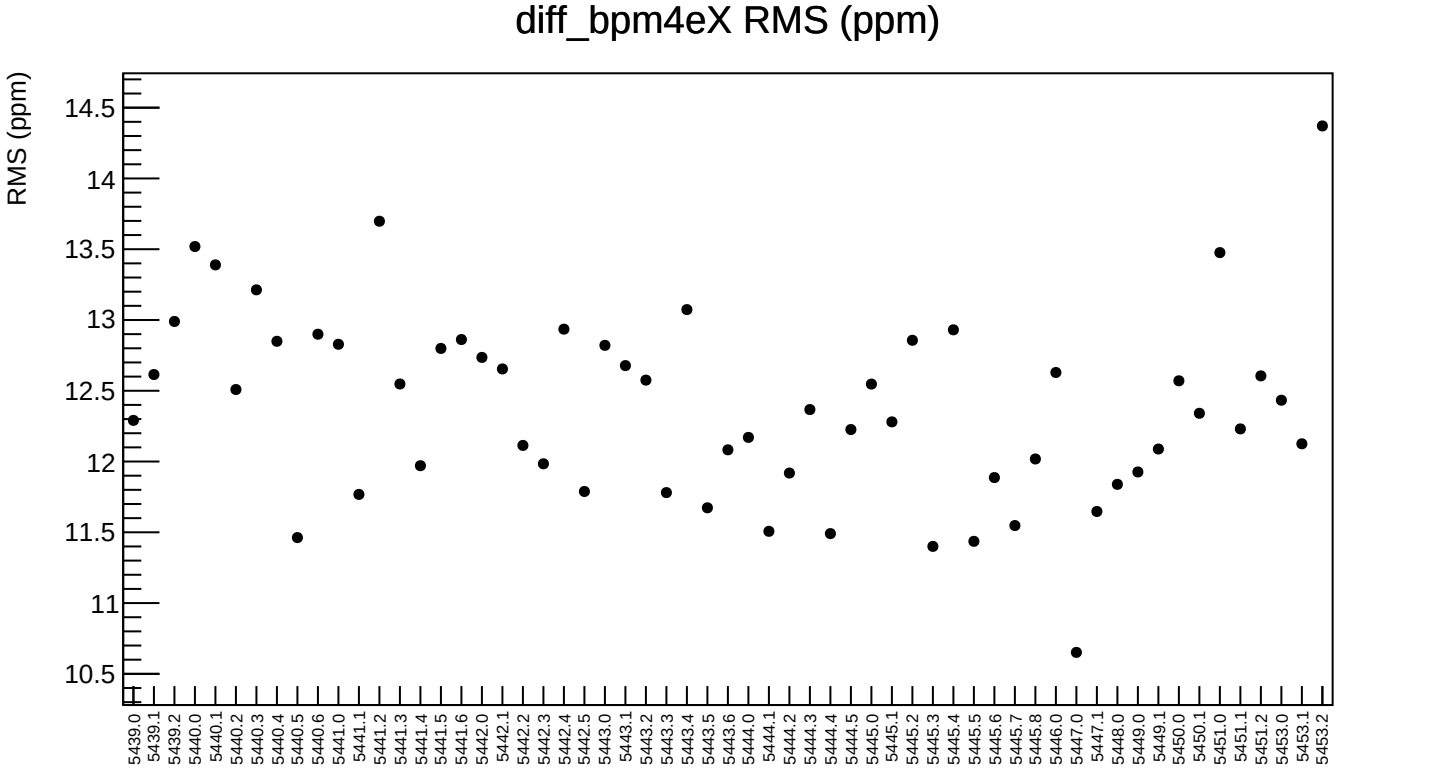

diff_bpm4aX
χ² / ndf 54.15 / 58
p0 −36.51 ± 15.4

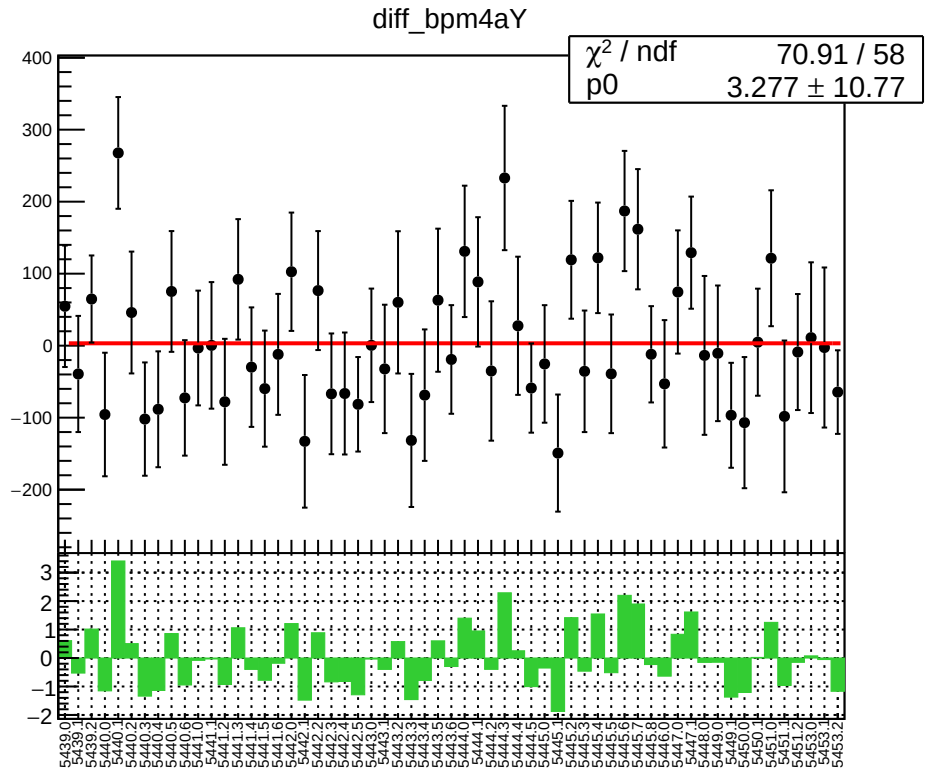

1D pull distribution
Mean −0.01392 ± 0.1247
Std Dev 0.9579 ± 0.08818
Underflow 0
Overflow 0
χ² / ndf 4.147 / 6
Constant 11.49 ± 2.22
Mean −0.05718 ± 0.16078
Sigma 1.043 ± 0.170

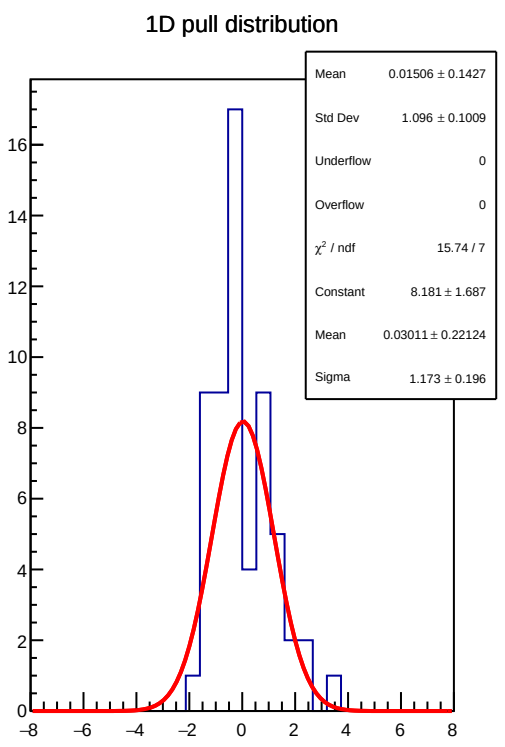

diff_bpm4aX RMS (ppm)
RMS (ppm)
14
13.5
13
12.5
12
11.5
11
10.5
10
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

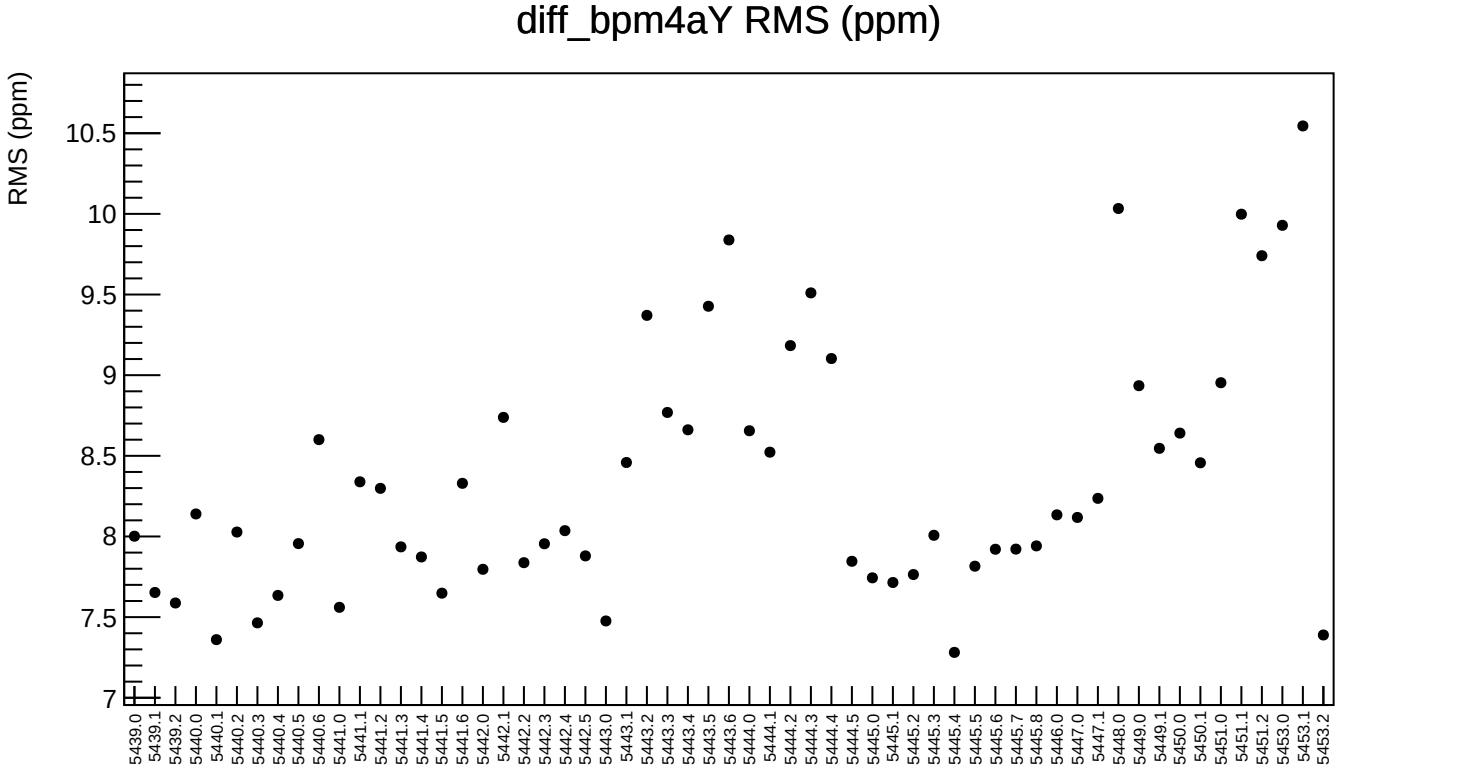

diff_bpm4eX
χ² / ndf 54.5 / 58
p0 −36.96 ± 16.09
400
200
0
−200
−400
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5450.9
5451.1
5451.2
5453.0
5453.1
5453.2

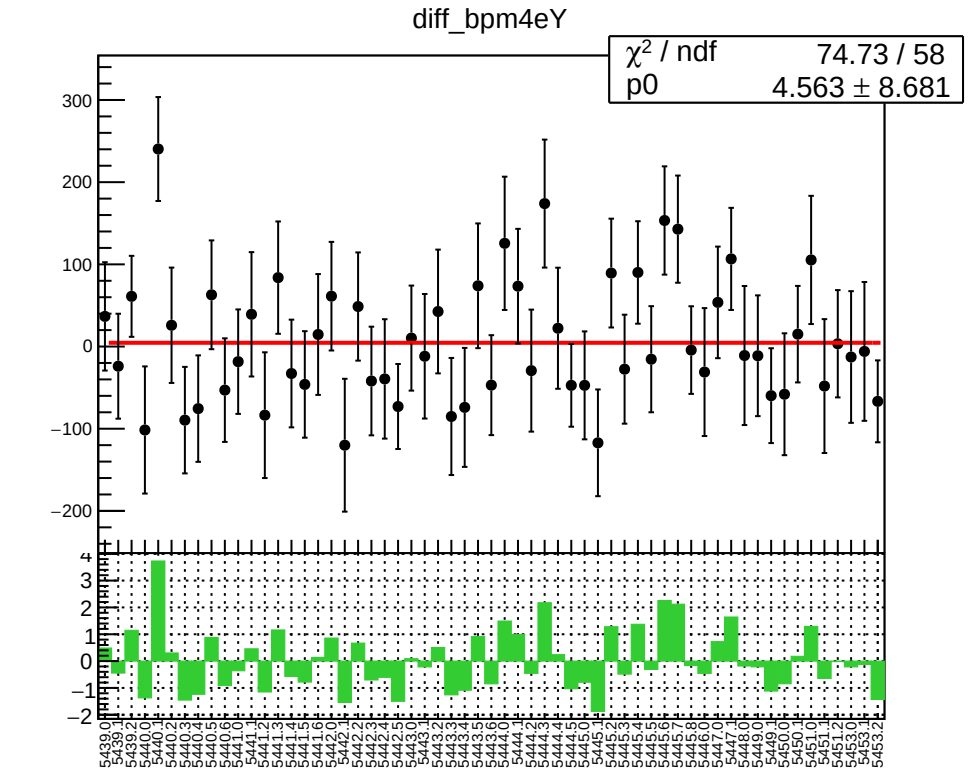

1D pull distribution
Mean −0.01344 ± 0.1251
Std Dev 0.961 ± 0.08846
Underflow 0
Overflow 0
χ² / ndf 3.945 / 6
Constant 11.13 ± 2.08
Mean −0.06814 ± 0.16539
Sigma 1.088 ± 0.171
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

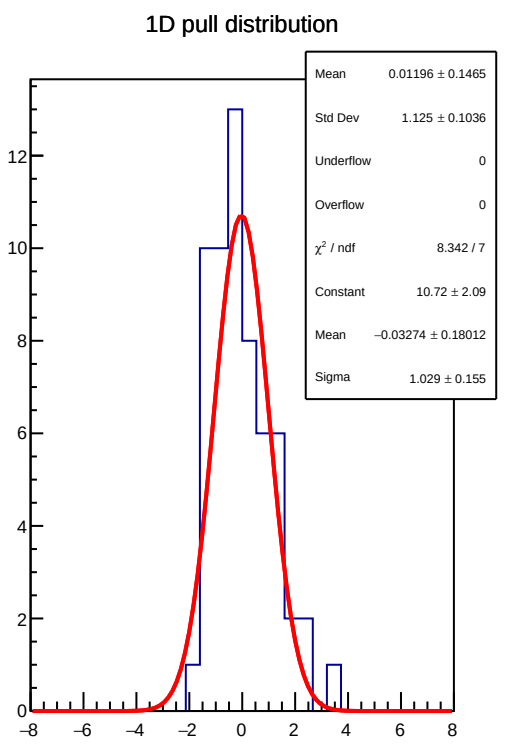

diff_bpm4eX RMS (ppm)
RMS (ppm)
14.5
14
13.5
13
12.5
12
11.5
11
10.5
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

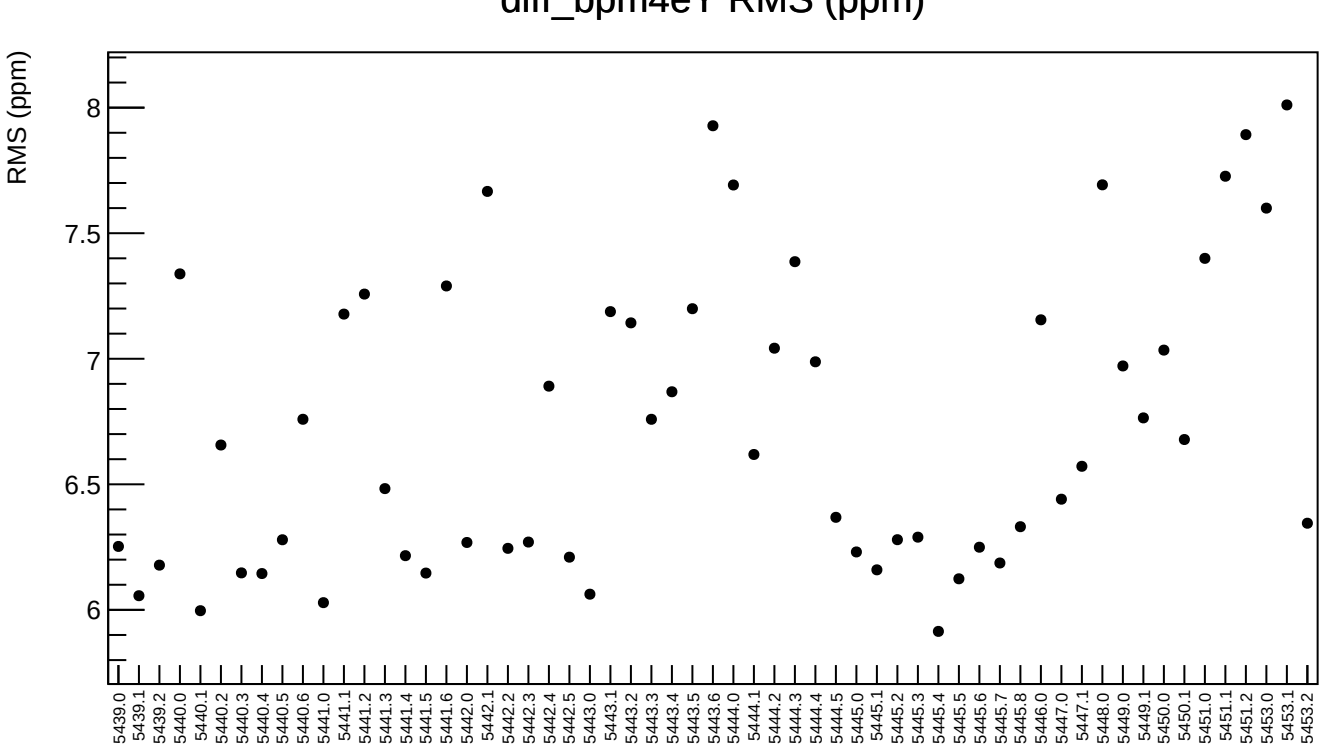

diff_bpm4aY
χ² / ndf 70.91 / 58
p0 3.277 ± 10.77

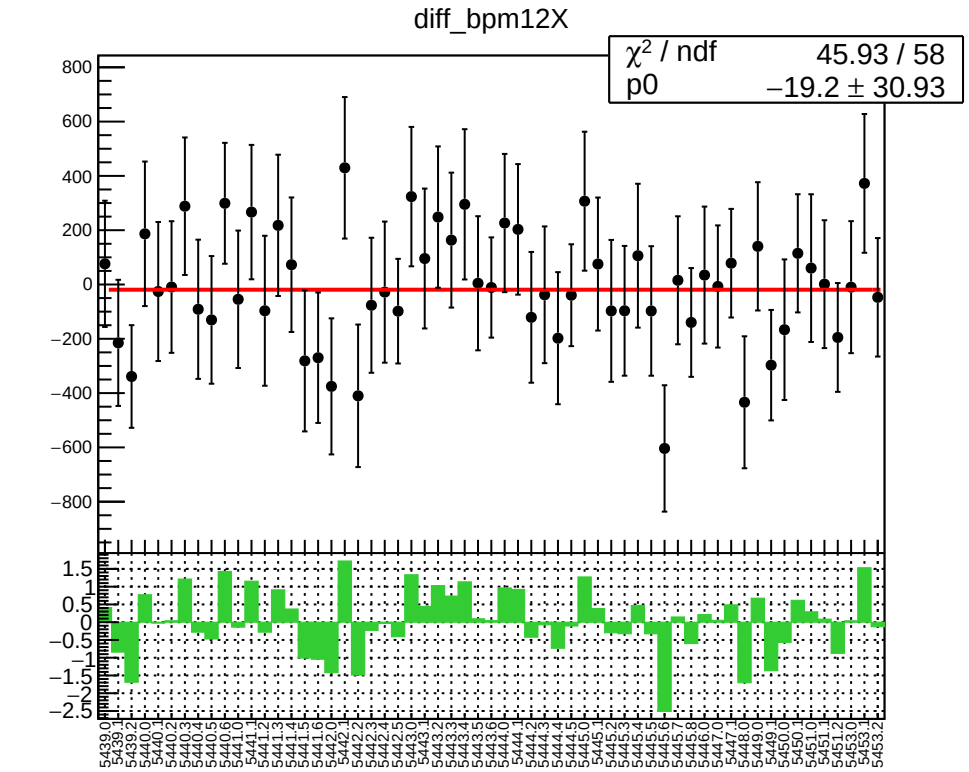

1D pull distribution
Mean 0.01506 ± 0.1427
Std Dev 1.096 ± 0.1009
Underflow 0
Overflow 0
χ² / ndf 15.74 / 7
Constant 8.181 ± 1.687
Mean 0.03011 ± 0.22124
Sigma 1.173 ± 0.196

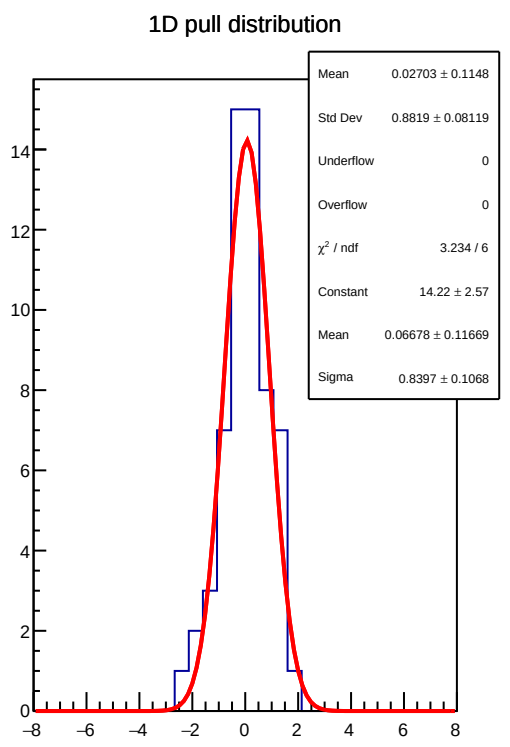

diff_bpm4aY RMS (ppm)
RMS (ppm)
10.5
10
9.5
9
8.5
8
7.5
7
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2

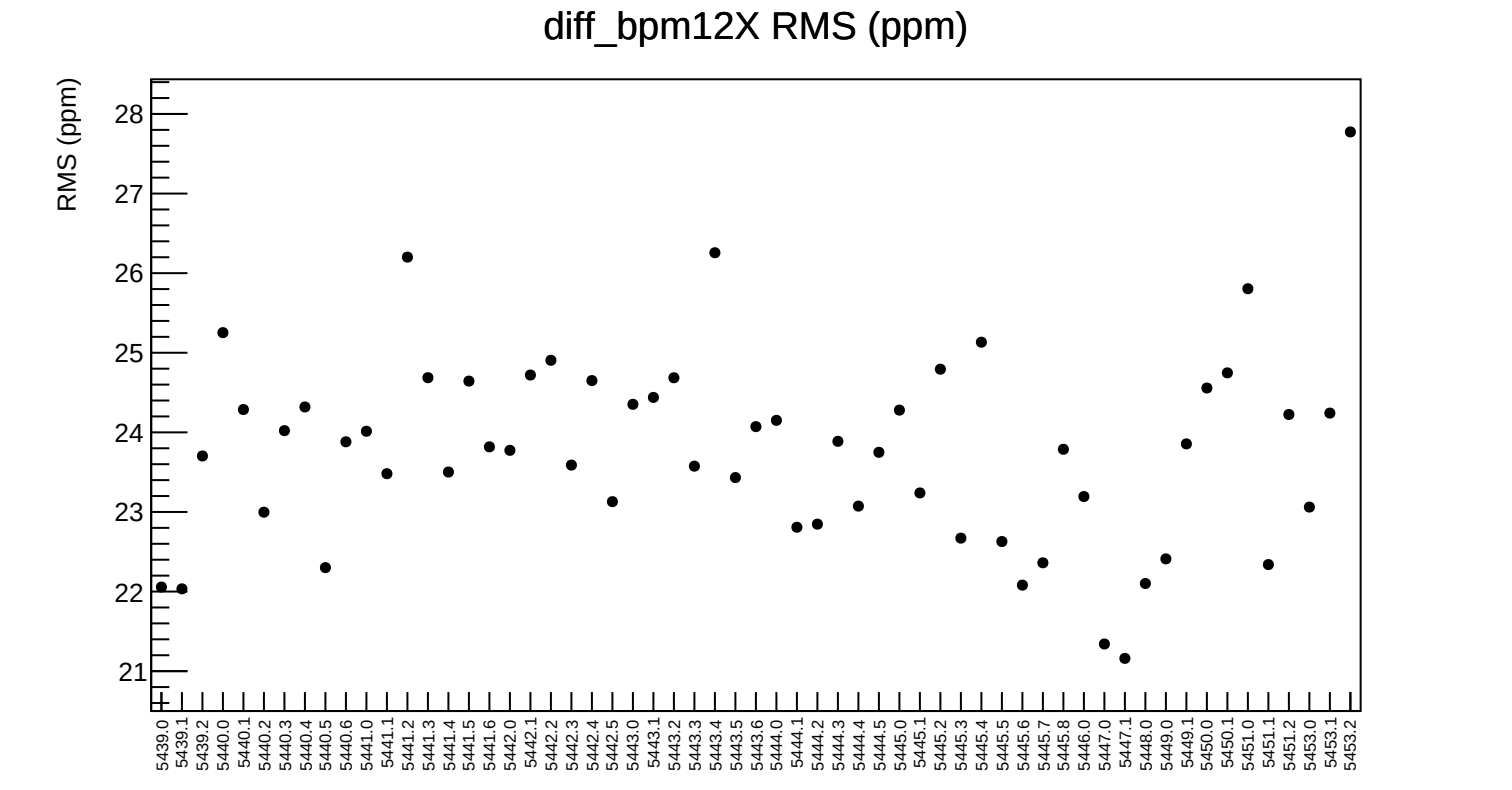

diff_bpm4eY
χ² / ndf 74.73 / 58
p0 4.563 ± 8.681


1D pull distribution
Mean 0.01196 ± 0.1465
Std Dev 1.125 ± 0.1036
Underflow 0
Overflow 0
χ² / ndf 8.342 / 7
Constant 10.72 ± 2.09
Mean −0.03274 ± 0.18012
Sigma 1.029 ± 0.155


diff_bpm4eY RMS (ppm)
RMS (ppm)
8
7.5
7
6.5
6
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
5443.2
5443.3
5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2


diff_bpm12X
χ² / ndf 45.93 / 58
p0 −19.2 ± 30.93


1D pull distribution
Mean 0.02703 ± 0.1148
Std Dev 0.8819 ± 0.08119
Underflow 0
Overflow 0
χ² / ndf 3.234 / 6
Constant 14.22 ± 2.57
Mean 0.06678 ± 0.11669
Sigma 0.8397 ± 0.1068


diff_bpm12X RMS (ppm)
RMS (ppm)
28
27
26
25
24
23
22
21
5439.0
5439.1
5439.2
5440.0
5440.1
5440.2
5440.3
5440.4
5440.5
5440.6
5441.0
5441.1
5441.2
5441.3
5441.4
5441.5
5441.6
5442.0
5442.1
5442.2
5442.3
5442.4
5442.5
5443.0
5443.1
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5443.4
5443.5
5443.6
5444.0
5444.1
5444.2
5444.3
5444.4
5444.5
5445.0
5445.1
5445.2
5445.3
5445.4
5445.5
5445.6
5445.7
5445.8
5446.0
5447.0
5447.1
5448.0
5449.0
5449.1
5450.0
5450.1
5451.0
5451.1
5451.2
5453.0
5453.1
5453.2