

Mercury Tau ~ 0.1 - 0.2 (Az El below = corrections)

**Scan# Time Obs Az El Foc Comment**

131 14h40 Cross (24.9 -1.3 LO freq changed by 190kHz upward from closed camera)

132 14h51 Cross

133 14h56 Cross 37.5 2.7 Very fluctuating scan (sky)

134 15h08 Cross tau not reliable, humidity = 75%

135 15h18 Focus 2/nsub 6 30.2 7.7 -1.3

136 15h18 track

137 15h25 OTF fastgeom 30.2 7.7 -1.3

138 15h37 track /tsub 300 0.205 Noise measurement

139 15h45 Focus 2/nsub 6 30.2 7.7 -0.7

140 15h48 Focus 2/nsub 6 30.2 7.7 -1.7 best focus found near -1.2

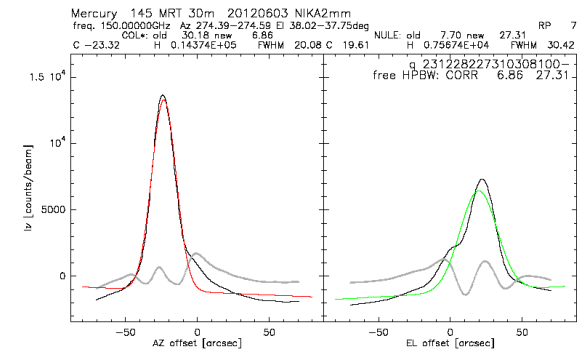
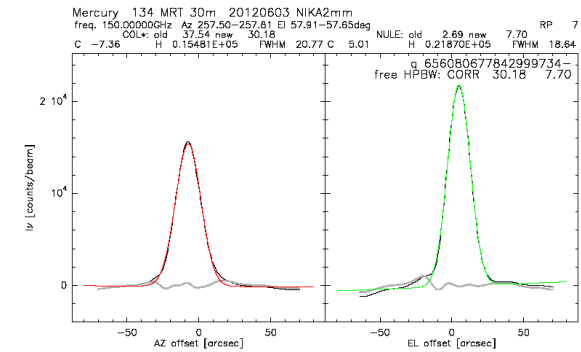
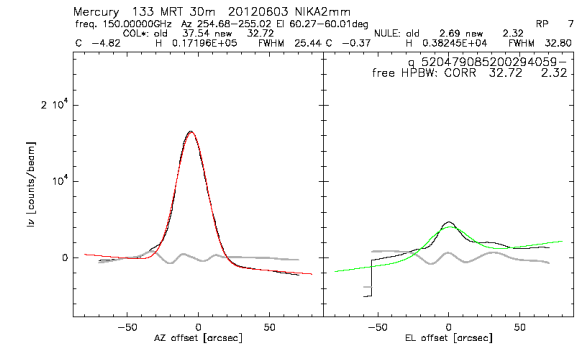
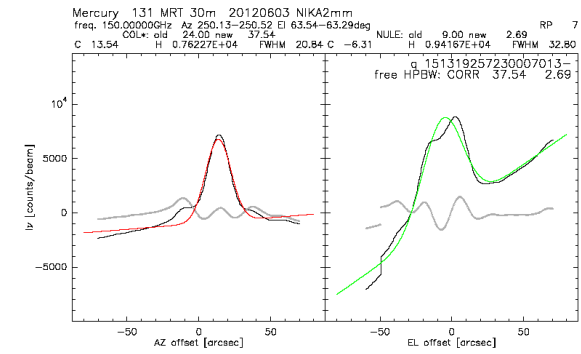
141 16h02 OTF fastgeom 30.2 7.7 -0.5 defocused map

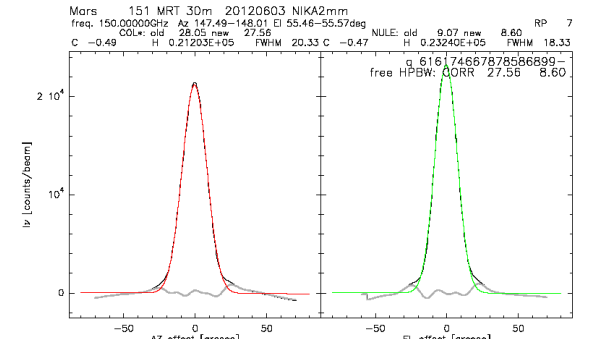
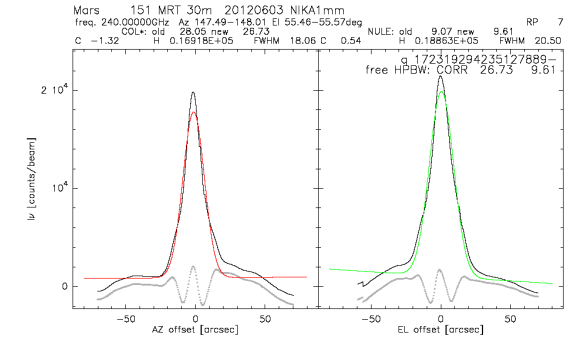
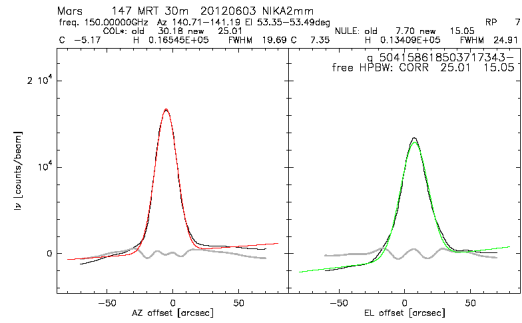
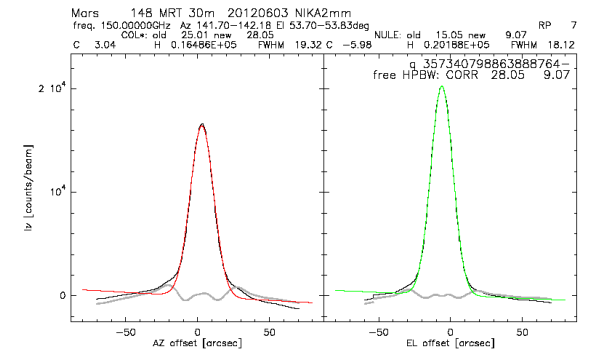
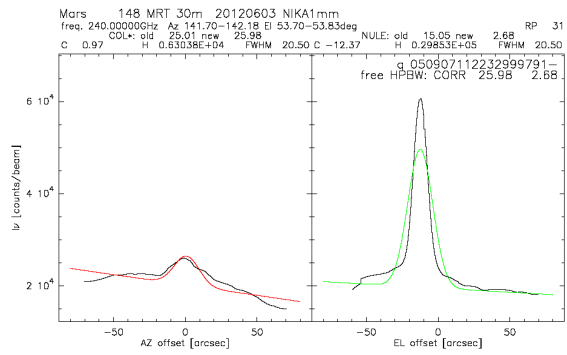
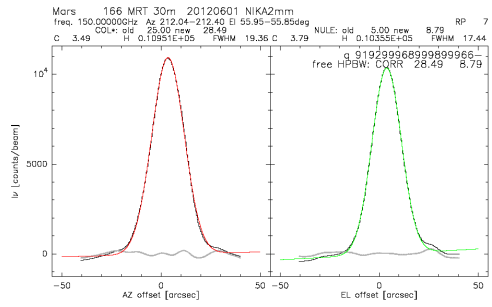
142 16h20 OTF fastgeom 30.2 7.7 -2.2 defocused map (subscan 29 pb of pointing interpol?)

143 16h41 Focus 2/nsub 6 30.2 7.7 -1.2 defocused map

144 16h44 Track /tsub 300 30.2 7.7 -1.2 Noise measurement

145 16h44 Cross 30.2 7.7 -1.2





Mars Tau < 0.1 (Az El below = corrections)

Scan# Time Obs Az El Foc Comment

146 16h53 Track Retune

147 17h03 Cross 30.2 7.7 -1.2

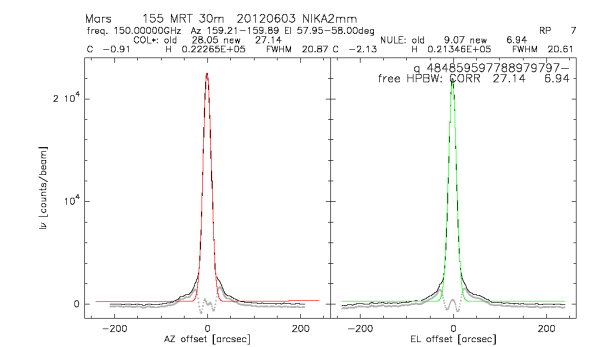
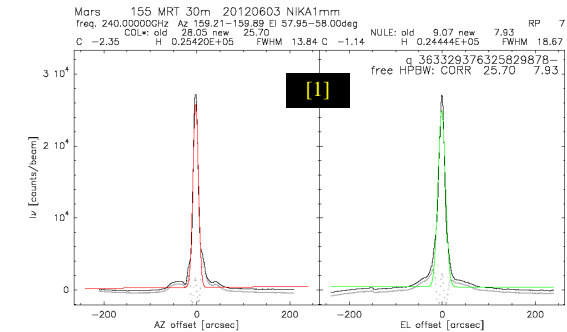
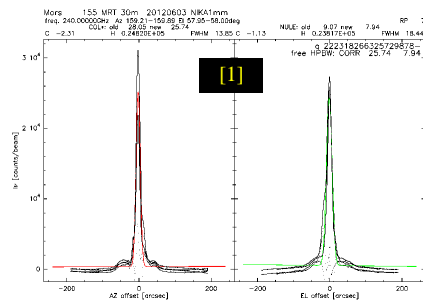
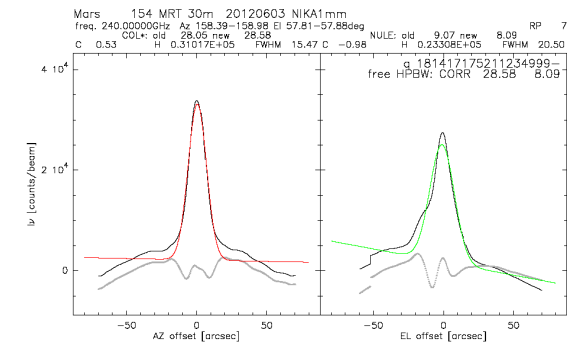
148 17h06 Cross 25.0 15.1 -1.2

150 17h14 Focus 28.0 9.1 -0.53

151 17h21 Cross 28.0 9.1 -0.64 Recover same pointing. OK!

154 17h40 Cross

155 17h48 Crossplateau Large and fast cross 480arcsec [1]



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155 17h48 Crossplateau Large and fast cross 480arcsec [1]

156 17h54 Focus 28.0 9.1 -0.64 Undetermined focus

157 18h02 Focus 28.0 9.1 -0.64

158 18h08 Crossplateau(3crosses) DAC level from 3 to 2dB 1.957710@1mm [2]

159 18h13 Track 2min for Noise with same settings

160 18h20 Crossplateau(3crosses) DAC level back to 3dB, f=1.322190@2mm, 1.957800@1mm [3]

161 18h13 Track 2min for Noise with same settings

162 18h47 Crossplateau(3crosses) One tone only KA007(nd7.rz8), KB005 (nd126.rz7) [4]

163 18h52 Track 2min for Noise with same settings

164 19h15 Mars Crossplateau(3crosses) All tones back after much retuning LO shifted by -20@2mm, -30kHz@1mm wrt nominal (last cross had a retuning) [5a]

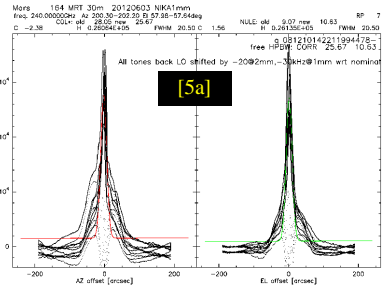
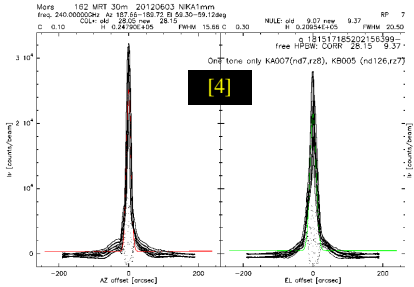
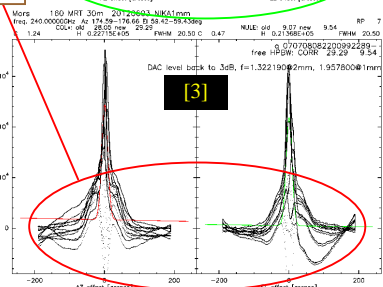
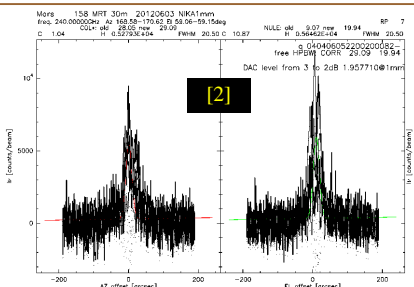
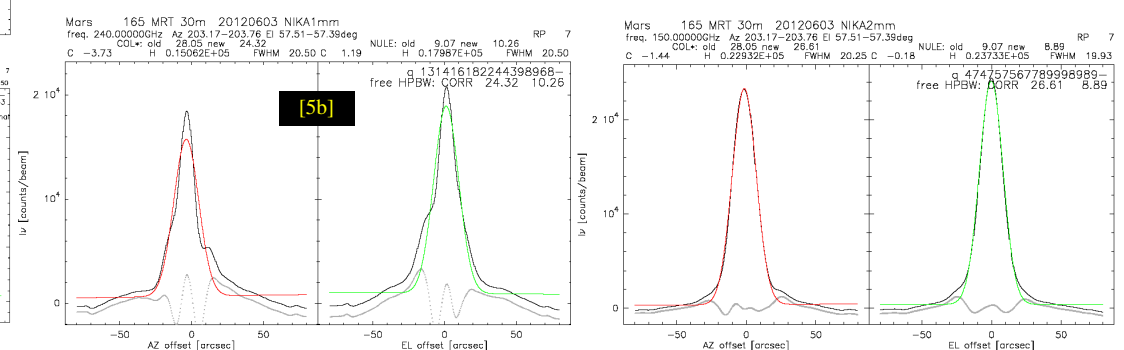
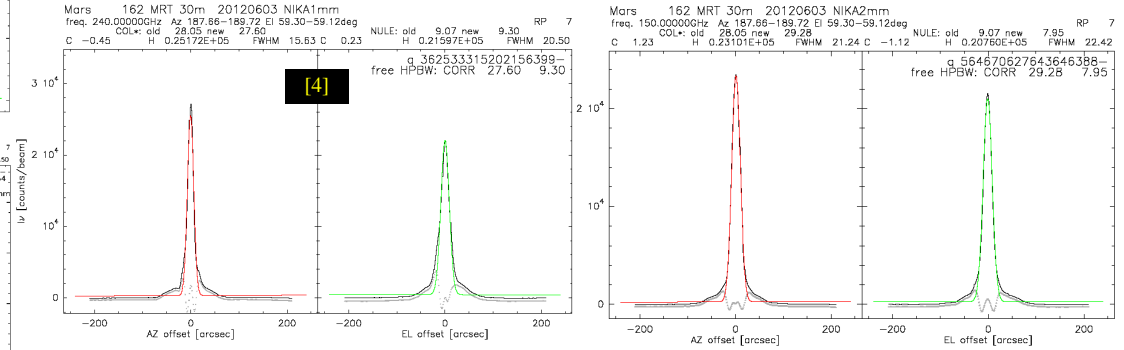
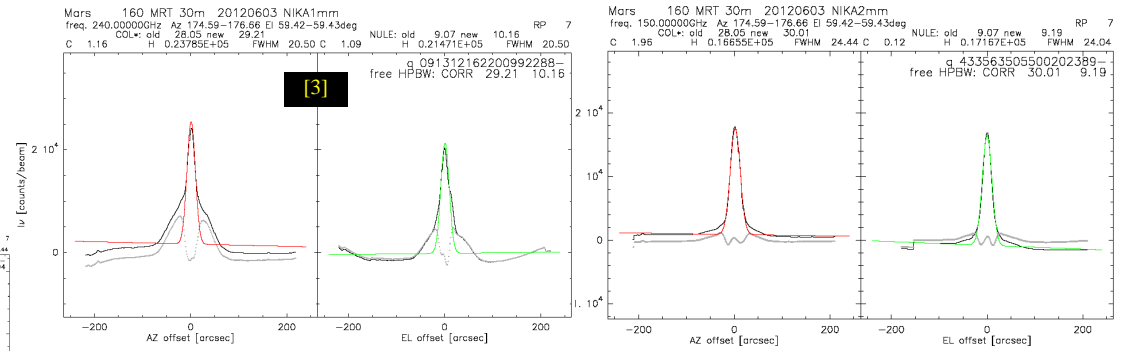
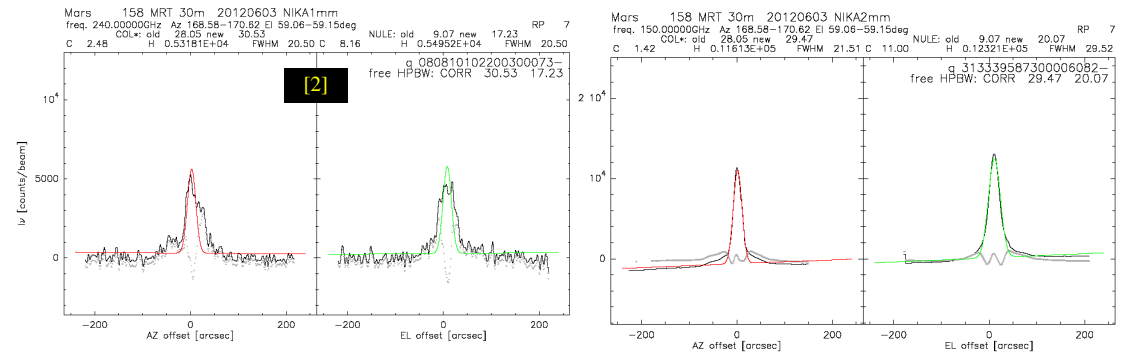
165 19h20 Cross All is nominal [5b]

166 19h23 Focus Power on 2mm 16db polarization, +3dB on ampli, : LO: 1.322200@2mm

167 19h23 Focus 28 9.1 -1.5 Focus confirmed

168 19h34 OTF fastgeom scan half done (14th subscan stuck)

Should be similar ! sky fluctuations can't explain the pedestal... => It was sunset; the focus drifted during the tests and we did not redo any Focus scan !! => We can't separate effect of focus from electronics on plateau !!



[1]

[2]

[3]

[4]

[1]

[2]

[3]

[4]

[1]

[2]

[3]

[4]

[1]

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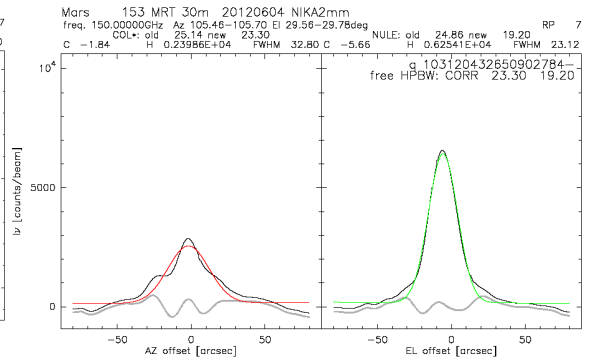
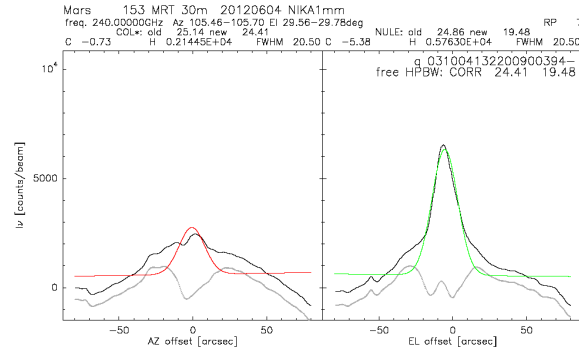
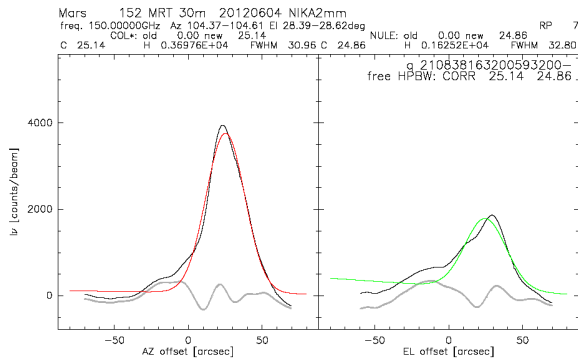
[4]

[1]

[2]

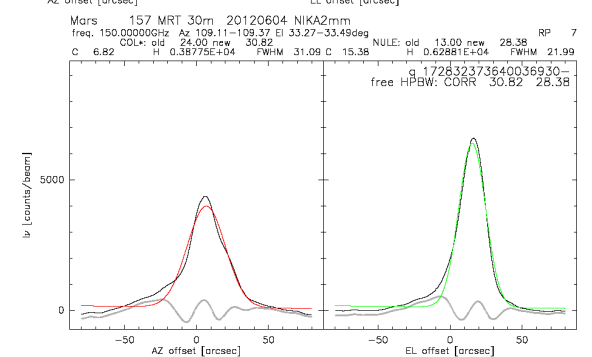
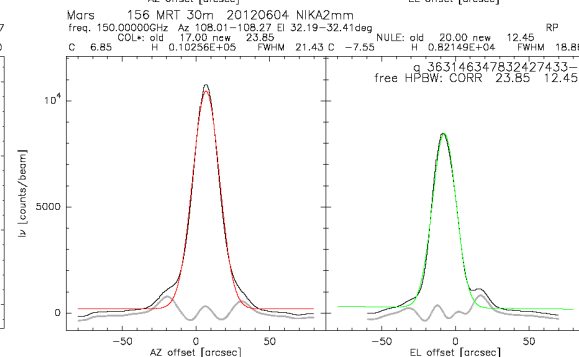
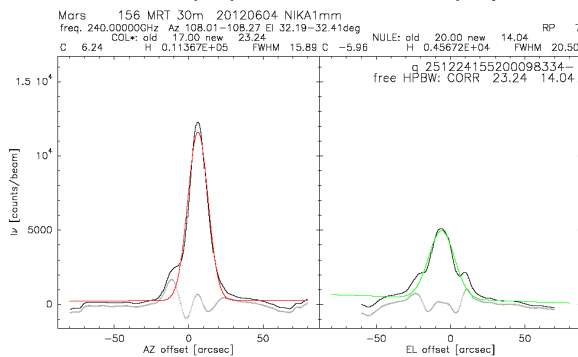
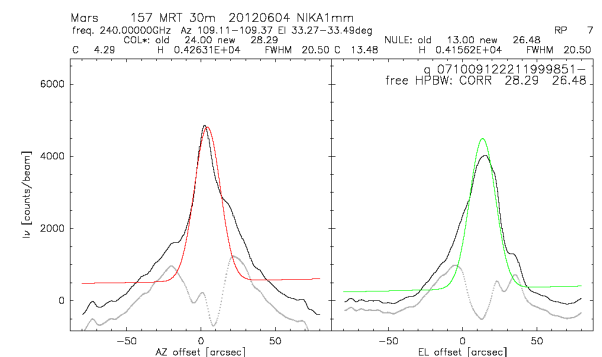
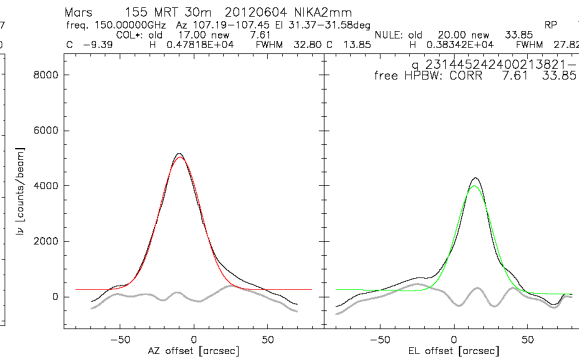
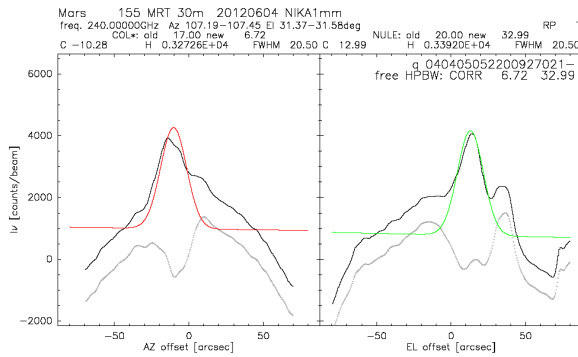
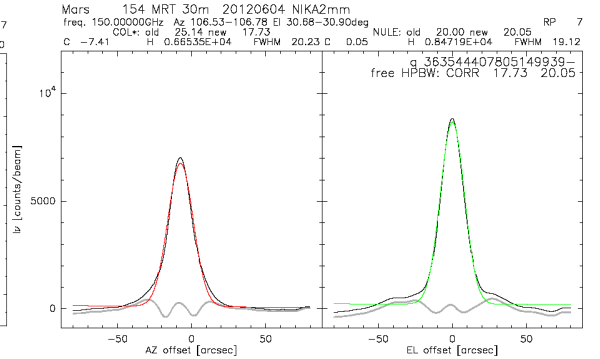
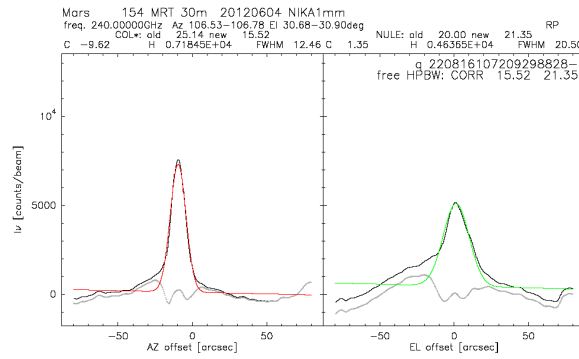
[3]

[4]



Mars Tau 0.5 .. 0.25 (Az El below = corrections)  
**Scan# Time Obs Az El Foc Comment**

- 151 14h30 Track 30 300 \tsubscan 3 1 tone configuration
- 152 14h33 Cross for pointing 0 0 -2.4
- 153 14h40 Cross for pointing 25.1 24.9 -1.5
- 154 14h45 Cross for pointing 25.1 20 -1.5
- 155 14h49 17 20 -1.5
- 156 14h54 17 20 -1.5 id the ghost source moves around
- 157 14h59 24 13 -1.5



Mars Tau 0.5 .. 0.25 (Az El below = corrections)  
**Scan# Time Obs Az El Foc Comment**

158 15h03 focus 1 /nsub 6 24 13 -1.5

159 15h08 OTF\_geomfast 24 13 -1.5

160 15h26 Cross 24 13 -1.5 [Back to full matrix](#)

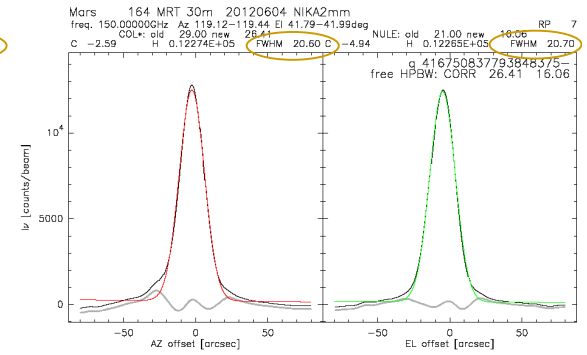
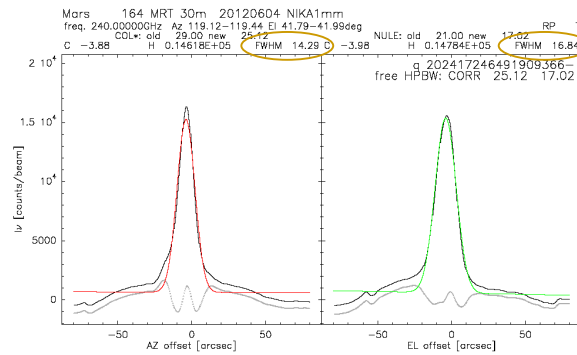
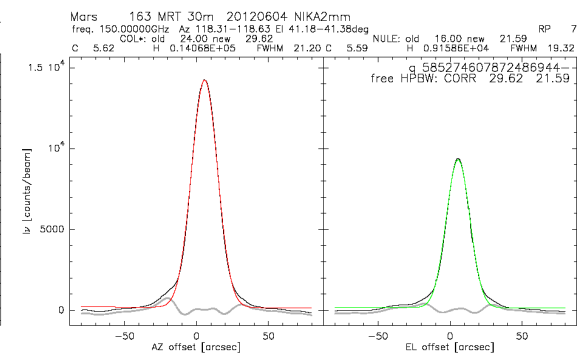
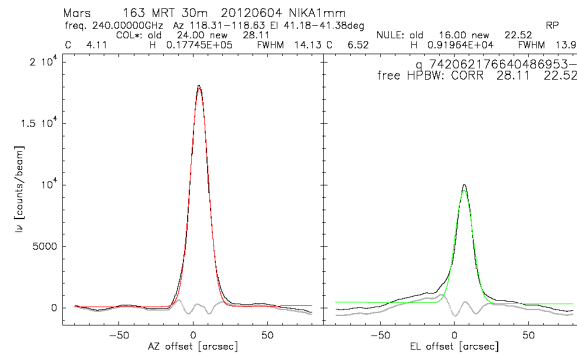
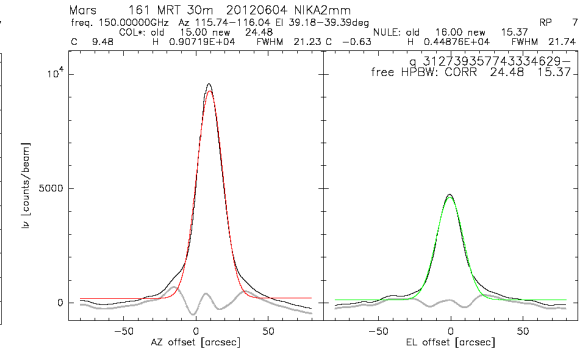
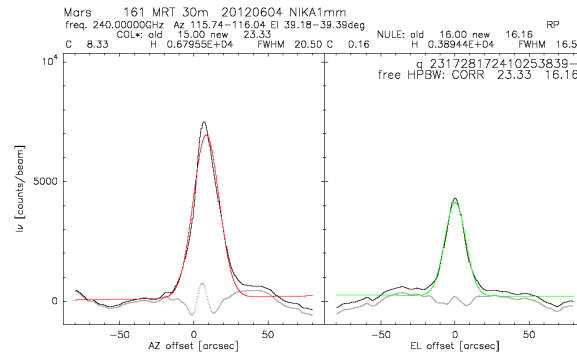
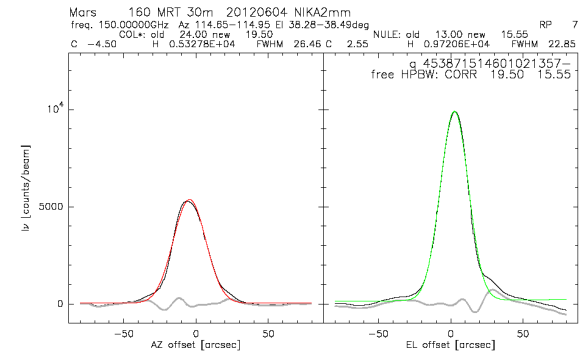
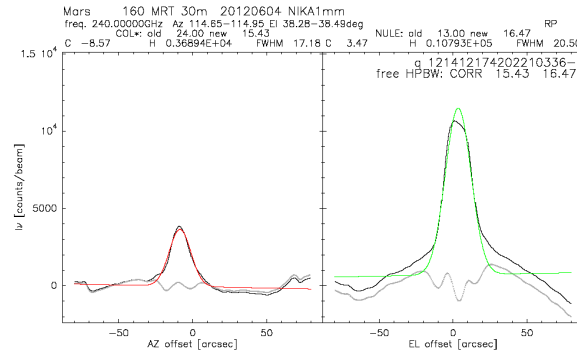
161 15h31 Cross 15 16 -1.5

164 15h46 Cross 29 21 -1.5

162 15h35 Track 300 300 35

163 15h42 Cross 24 16 -1.5

**164 15h46 Cross 29 21 -1.5 27 19 -1.5 LO: 1.321900 (2mm) , 1.956200 (1mm)**



Mars Tau 0.5 .. 0.25 (Az El below = corrections)  
**Scan# Time Obs Az El Foc Comment**

199 20h00 Cross 27 19 -2.0

200 20h06 Cross 31.7 11.5 -2.0

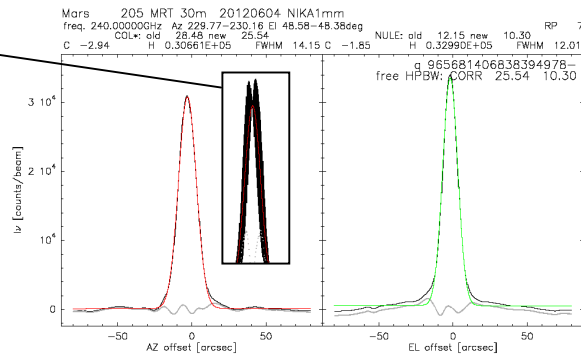
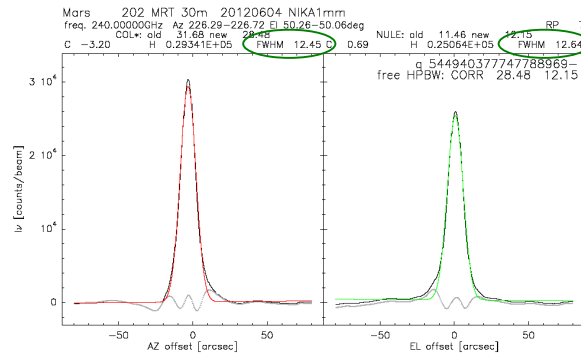
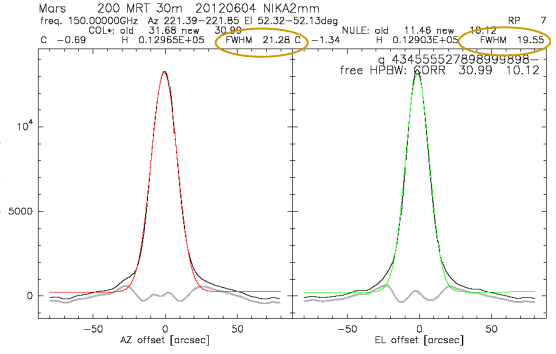
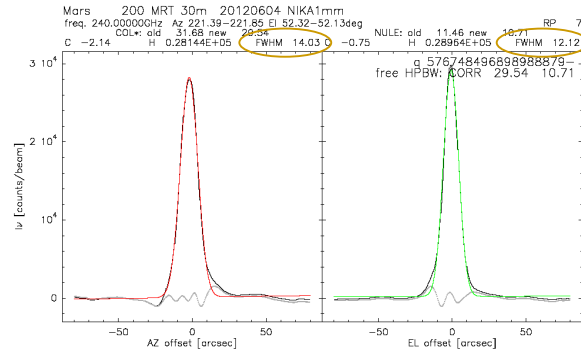
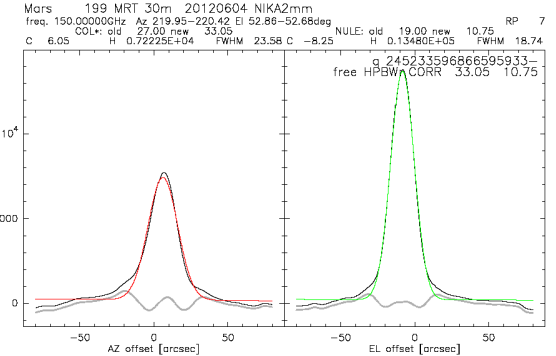
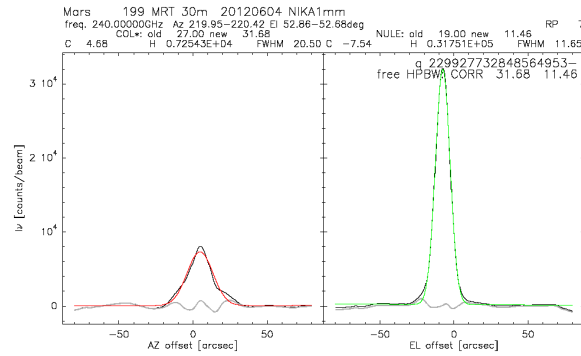
201 20h10 OTF\_geomfast 31.7 11.5 -2.0

202 20h20 Cross 31.7 11.5 -2.0

203 20h24 focus 1 /nsub 6 Correcting to 28.48 12.15

204 20h28 focus 1 /nsub 6 set focus to -1.6

205 20h32 Cross 31.7 11.5 -1.6 set focus to -1.6



Still some anomalous refraction => individual subscan width ~12" => OK

