

Tests witnessed by: on date: performed @ test range:

ANTENNA ASSEMBLY S/N: FEED ASSEMBLY S/N:

FREQUENCY (GHz)		10.70 ÷ 12.75	13.75	14.0	14.25	14.5
PLANE, POLARISATION						
AZ (E-PLANE), HOR POL	SL PEAK [$\alpha \div 9.2^\circ$]					
	SL PEAK [$9.2^\circ \div 48^\circ$]					
	XPD					
AZ (H-PLANE), VER POL	SL PEAK [$\alpha \div 9.2^\circ$]					
	SL PEAK [$9.2^\circ \div 48^\circ$]					
	XPD					
EL (H-PLANE), HOR POL	SL PEAK [$\alpha \div 9.2^\circ$]					
	XPD					
EL (E-PLANE), VER POL	SL PEAK [$\alpha \div 9.2^\circ$]					
	XPD					
AZ (E-PLANE), HOR POL	SL PEAK [$48^\circ \div 180^\circ$]					
AZ (H-PLANE), VER POL	SL PEAK [$48^\circ \div 180^\circ$]					
AZ, HOR + 20° POL	SL PEAK [$\alpha \div 9.2^\circ$]					
	XPD					
AZ, HOR - 20° POL	SL PEAK [$\alpha \div 9.2^\circ$]					
	XPD					
AZ, VER + 20° POL	SL PEAK [$\alpha \div 9.2^\circ$]					
	XPD					
AZ, VER - 20° POL	SL PEAK [$\alpha \div 9.2^\circ$]					
	XPD					
GAIN TX HOR / VER POL						
GAIN RX HOR / VER POL						

Note 1: in reporting values [all values in dB] under AZ or EL cuts, indicate the available margin with respect to the EESS masks (EESS 502 refers).

Note 2: in reporting values under XPD (Cross-Polar Discrimination) cuts, indicate the worst case measured XPD value at the -1 dB contour of the main beam.

Note 3: additional measurements of the 9 points XPD shall be performed, in line with ESOG Vol I Module 130 Par. 7.2, for both H and V polarisations at the frequencies indicated, see Fig. 3.

FIG. 1: KU-BAND TYPE APPROVAL SPREADSHEET

Antenna Diameter : Mask starts at $\alpha = 100\lambda/D$ (or 1°) =

(REPEAT FOR MINIMUM THREE ANTENNA SYSTEMS)

Tests witnessed by: on date: performed @ test range:
 ANTENNA ASSEMBLY S/N: FEED ASSEMBLY S/N:

<i>FREQUENCY (GHz)</i>		3.60 ÷ 4.20	5.85	6.135	6.425
<i>PLANE, POLARISATION</i>					
AZ (E-PLANE), RHCP	SL PEAK [$\alpha \div 9.2^\circ$] SL PEAK [$9.2^\circ \div 48^\circ$] XPD				
AZ (H-PLANE), LHCP	SL PEAK [$\alpha \div 9.2^\circ$] SL PEAK [$9.2^\circ \div 48^\circ$] XPD				
EL (H-PLANE), RHCP	SL PEAK [$\alpha \div 9.2^\circ$] XPD				
EL (E-PLANE), LHCP	SL PEAK [$\alpha \div 9.2^\circ$] XPD				
AZ (E-PLANE), RHCP	SL PEAK [$48^\circ \div 180^\circ$]				
AZ (H-PLANE), LHCP	SL PEAK [$48^\circ \div 180^\circ$]				
AZ, RHCP + 20° POL	SL PEAK [$\alpha \div 9.2^\circ$] XPD				
AZ, RHCP - 20° POL	SL PEAK [$\alpha \div 9.2^\circ$] XPD				
AZ, LHCP + 20° POL	SL PEAK [$\alpha \div 9.2^\circ$] XPD				
AZ, LHCP - 20° POL	SL PEAK [$\alpha \div 9.2^\circ$] XPD				
GAIN TX RHCP / LHCP					
GAIN RX RHCP / LHCP					

Note 1: in reporting values [all values in dB] under AZ or EL cuts, indicate the available margin with respect to the EESS masks (EESS 502 refers).

Note 2: in reporting values under XPD (Cross-Polar Discrimination) cuts, indicate the worst case measured XPD value at the -1 dB contour of the main beam.

Note 3: additional measurements of the 9 points XPD shall be performed, in line with ESOG Vol I Module 130 Par. 7.2, for both H and V polarisations at the frequencies indicated, see Fig. 3.

FIG. 2: C-BAND TYPE APPROVAL SPREADSHEET

Antenna Diameter : Mask starts at $\alpha = 100/\lambda D$ (or 1°) =

(REPEAT FOR MINIMUM THREE ANTENNA SYSTEMS)