

02/05/04 **High Frequency Measurement**
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Thu Chan
 Project #: 02C1416-1
 Company Name: Casil Research & Development Co., Ltd.
 EUT Descrip.: 315MHz Wireless Remote Control Device
 Test Target: FCC Class B (15.209)
 Mode Oper: Transmitting

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T72; S/N: 6739 @3m	T34 HP 8449B	Agilent E4446A Analyzer	

Hi Frequency Cables

☐ (2 ft)
 ☒ (2 ~ 3 ft)
 ☐ (4 ~ 6 ft)
 ☐ (12 ft)

Peak Measurements:
 1 MHz Resolution Bandwidth
 1MHz Video Bandwidth

Average Measurements:
 1 MHz Resolution Bandwidth
 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
1.260	9.8	53.5		24.8	1.4	-37.7	0.0	0.0	42.1		74.0	54.0	-31.9		V
1.575	9.8	49.5		26.2	1.6	-37.2	0.0	0.0	40.1		74.0	54.0	-33.9		V
1.890	9.8	45.0		27.7	1.7	-36.8	0.0	0.0	37.5		74.0	54.0	-36.5		V
2.205	9.8	43.0		28.7	1.8	-36.4	0.0	0.0	37.0		74.0	54.0	-37.0		V
2.520	9.8	43.0		29.6	1.9	-36.2	0.0	0.0	38.2		74.0	54.0	-35.8		V
2.835	9.8	43.0		30.4	2.0	-36.0	0.0	0.0	39.4		74.0	54.0	-34.6		V
3.150	9.8	43.0		31.1	2.1	-35.8	0.0	0.0	40.4		74.0	54.0	-33.6		V
1.260	9.8	51.5		24.8	1.4	-37.7	0.0	0.0	40.1		74.0	54.0	-33.9		H
1.575	9.8	47.0		26.2	1.6	-37.2	0.0	0.0	37.6		74.0	54.0	-36.4		H
1.890	9.8	43.5		27.7	1.7	-36.8	0.0	0.0	36.0		74.0	54.0	-38.0		H
2.205	9.8	43.0		28.7	1.8	-36.4	0.0	0.0	37.0		74.0	54.0	-37.0		H
2.520	9.8	43.0		29.6	1.9	-36.2	0.0	0.0	38.2		74.0	54.0	-35.8		H
2.835	9.8	43.0		30.4	2.0	-36.0	0.0	0.0	39.4		74.0	54.0	-34.6		H
3.150	9.8	43.0		31.1	2.1	-35.8	0.0	0.0	40.4		74.0	54.0	-33.6		H

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		