

## Low Channel

28-May-02 FCC Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

Equipment for 1-22 GHz  
 HP8563E Analyzer  
 HP 8449B Pre-amplifier  
 EMCO 3115 Antenna  
 Cable 17.0 feet

Average Measurements:  
 1 MHz Resolution Bandwidth  
 10Hz Video Bandwidth

Peak Measurements:  
 1MHz Resolution Bandwidth  
 1MHz Video Bandwidth

Client : Root, Inc  
 Project # : 02U1329-1  
 EUT: RGW 2400/OD 2.4GHz Device  
 EUT's Antenna : Directional HG2415G

### Low Channel, CH1

f GHz	Dist feet	Read Peak dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Peak Lim dBuV/m	Avg Lim dBuV/m	Peak Mar dB	Avg Mar dB	Notes
4.824	9.84	44.3	31.8	32.6	6.5	-35.5	0.0	1.0	48.9	36.4	74.0	54.0	-25.1	-17.6	V
7.236	9.84	25.5	14.2	36.6	8.2	-35.5	0.0	1.0	35.8	24.5	74.0	54.0	-38.2	-29.5	V, Noise Floor
9.648	9.84	22.8	12.3	37.3	9.7	-35.5	0.0	1.0	35.3	24.8	74.0	54.0	-38.7	-29.2	V, Noise Floor
12.060	9.84	24.0	13.5	39.0	10.7	-35.5	0.0	1.0	39.3	28.8	74.0	54.0	-34.7	-25.2	V, Noise Floor
14.472	9.84	24.8	13.0	40.4	12.2	-35.5	0.0	1.0	42.9	31.1	74.0	54.0	-31.1	-22.9	V, Noise Floor
16.884	9.84	24.2	13.5	42.1	13.9	-35.5	0.0	1.0	45.6	34.9	74.0	54.0	-28.4	-19.1	V, Noise Floor
19.296	9.84	23.8	13.5	32.5	15.3	-35.5	0.0	1.0	37.2	26.8	74.0	54.0	-36.8	-27.2	V, Noise Floor
21.708	9.84	23.0	13.0	24.2	16.7	-35.5	0.0	1.0	29.4	19.4	74.0	54.0	-44.6	-34.6	V, Noise Floor
24.120	9.84	26.5	14.8	24.2	18.6	-35.5	0.0	1.0	34.8	23.1	74.0	54.0	-39.2	-30.9	V, Noise Floor

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		

f	Dist	Read Peak	Read Avg.	AF	CL	Amp	D Corr	HPF	Peak	Avg	Peak Lim	Avg Lim	Peak Mar	Avg Mar	Notes
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GHz	feet	dBuV	dBuV	dB/m	dB	dB	dB		dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	
4.824	9.84	24.8	14.0	32.6	6.5	-35.5	0.0	1.0	29.4	18.6	74.0	54.0	-44.6	-35.4	H, Noise Floor
7.236	9.84	24.8	14.0	36.6	8.2	-35.5	0.0	1.0	35.1	24.3	74.0	54.0	-38.9	-29.7	H, Noise Floor
9.648	9.84	22.2	12.2	37.3	9.7	-35.5	0.0	1.0	34.7	24.7	74.0	54.0	-39.3	-29.3	H, Noise Floor
12.060	9.84	24.3	13.0	39.0	10.7	-35.5	0.0	1.0	39.6	28.3	74.0	54.0	-34.4	-25.7	H, Noise Floor
14.472	9.84	23.3	12.3	40.4	12.2	-35.5	0.0	1.0	41.4	30.4	74.0	54.0	-32.6	-23.6	H, Noise Floor
16.884	9.84	24.2	13.5	42.1	13.9	-35.5	0.0	1.0	45.6	34.9	74.0	54.0	-28.4	-19.1	H, Noise Floor
19.296	9.84	24.8	14.0	32.5	15.3	-35.5	0.0	1.0	38.2	27.3	74.0	54.0	-35.8	-26.7	H, Noise Floor
21.708	9.84	23.7	13.5	24.2	16.7	-35.5	0.0	1.0	30.0	19.9	74.0	54.0	-44.0	-34.1	H, Noise Floor
24.120	9.84	23.8	14.5	24.2	18.6	-35.5	0.0	1.0	32.1	22.8	74.0	54.0	-41.9	-31.2	H, Noise Floor

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