

Test Engr: Thanh Nguyen
 Project #: TBD
 Company: ALVARION
 EUT Descrp.: 902-928 MHz DTS (FCC ID LKT-900-IF)
 EUT M/N: 900 IF
 Test Target: FCC Part 15.247
 Mode Oper: 8FSK Continuous.

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
172; S/N: 6739 @3m	Miteq NSP2600-44	8593EM 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	
0.904	9.8	Fundamental													V	
1.808	9.8	43.2	31.2	27.3	1.5	-36.4	0.0	1.0	36.6	24.6	74.0	54.0	-37.4	-29.4	Noise Floor	
2.712	9.8	41.7	30.4	30.1	2.2	-36.3	0.0	1.0	38.6	27.3	74.0	54.0	-35.4	-26.7	Noise Floor	
3.616	9.8	40.6	29.6	31.9	2.7	-36.2	0.0	1.0	40.0	29.0	74.0	54.0	-34.0	-25.0	Noise Floor	
4.520	9.8	41.1	29.1	33.0	3.0	-36.1	0.0	1.0	42.0	30.0	74.0	54.0	-32.0	-24.0	Noise Floor	
5.420	9.8	40.4	29.2	33.9	3.4	-36.1	0.0	1.0	42.4	31.2	74.0	54.0	-31.6	-22.8	Noise Floor	
6.328	9.8	41.5	30.1	34.8	3.7	-36.3	0.0	1.0	44.7	33.3	74.0	54.0	-29.3	-20.7	Noise Floor	
7.232	9.8	42.9	31.4	35.7	4.1	-36.3	0.0	1.0	47.4	35.8	74.0	54.0	-26.6	-18.2	Noise Floor	
8.136	9.8	40.8	29.9	37.1	4.4	-35.8	0.0	1.0	47.5	36.5	74.0	54.0	-26.5	-17.5	Noise Floor	
1.808	9.8	42.4	31.0	27.3	1.5	-36.4	0.0	1.0	35.8	24.3	74.0	54.0	-38.2	-29.7	H/Noise Floor	
No more Spurious Emissions was detected up to 10th Harmonics Horizontal Antenna																
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									

06/11/03 **High Frequency Measurement**
Compliance Certification Services, Morgan Hill Open Field Site

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Hi Frequency Cables

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 1MHz Video Bandwidth

Average Measurements:
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 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
0.915	9.8	Fundamental													V
1.830	9.8	42.3	30.9	27.4	1.6	-36.4	0.0	1.0	35.8	24.4	74.0	54.0	-38.2	-29.6	Noise Floor
No more Spurious Emissions was detected up to 10th Harmonics for both Vertical&Horizontal Antenna															

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		

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Average Measurements:
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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	
0.924	9.8	Fundamental													V	
1.852	9.8	42.5	31.3	27.5	1.6	-36.4	0.0	1.0	36.1	24.9	74.0	54.0	-37.9	-29.1	Noise Floor	
2.778	9.8	42.4	30.4	30.3	2.2	-36.3	0.0	1.0	39.6	27.6	74.0	54.0	-34.4	-26.4	Noise Floor	
No Spurious Emissions was detected up to 10th Harmonics for both Vertical&Horizontal Antenna																
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									