

06/09/03 High Frequency Measurement
 Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: VIEN TRAN
 Project #: 0311880-1
 Company: Alvarion
 EUT Descrip.: Alvarion 902-928MHz DTS Device
 EUT M/N: TBD
 Test Target: FCC15.247
 Mode Oper: Constant Tx_Low ch

Test Equipment:

EMCO Horn 1-18GHz T60; S/N: 2238 @3m	Pre-amplifier 1-26GHz Miteq NSP2600-44	Spectrum Analyzer 8593EM Analyzer	Horn > 18GHz
---	---	--------------------------------------	--------------

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				1.0	0.8	-1.5		1.0			#N/A	#N/A			V		
1.808	9.8	52.5	41.1	27.9	1.5	-36.4	0.0	1.0	46.5	35.1	74.0	54.0	-27.5	-18.9	V, 2nd Har		
2.712	9.8	44.7	31.0	30.1	2.3	-36.3	0.0	1.0	41.9	28.2	74.0	54.0	-32.1	-25.8	V		
3.616	9.8	57.4	40.7	31.9	2.9	-36.2	0.0	1.0	56.9	40.2	74.0	54.0	-17.1	-13.8	V		
4.520	9.8	44.6	30.5	32.9	3.3	-36.1	0.0	1.0	45.7	31.6	74.0	54.0	-28.3	-22.4	V		
5.424	9.8	43.0	30.9	33.8	3.7	-36.1	0.0	1.0	45.3	33.2	74.0	54.0	-28.7	-20.8	V		
6.328	9.8	44.7	32.0	34.9	4.1	-36.3	0.0	1.0	48.3	35.6	74.0	54.0	-25.7	-18.4	V		
7.232	9.8	43.9	31.8	36.1	4.4	-36.3	0.0	1.0	49.1	37.0	74.0	54.0	-24.9	-17.0	V		
8.136	9.8	42.6	30.0	37.3	4.7	-35.8	0.0	1.0	49.8	37.2	74.0	54.0	-24.2	-16.8	V		
9.040	9.8	42.0	30.4	38.8	5.1	-35.3	0.0	1.0	51.5	40.0	74.0	54.0	-22.5	-14.0	V		
1.808	9.8	49.0	39.5	27.9	1.5	-36.4	0.0	1.0	43.0	33.5	74.0	54.0	-31.0	-20.5	H, 2nd har.		
2.712	9.8	44.5	41.4	30.1	2.3	-36.3	0.0	1.0	41.7	38.6	74.0	54.0	-32.3	-15.4	H		
3.616	9.8	47.2	34.2	31.9	2.9	-36.2	0.0	1.0	46.7	33.7	74.0	54.0	-27.3	-20.3	H		
4.520	9.8	43.4	30.2	32.9	3.3	-36.1	0.0	1.0	44.5	31.3	74.0	54.0	-29.5	-22.7	H		
5.424	9.8	43.8	30.0	33.8	3.7	-36.1	0.0	1.0	46.1	32.3	74.0	54.0	-27.9	-21.7	H		
6.328	9.8	43.4	31.4	34.9	4.1	-36.3	0.0	1.0	47.0	35.0	74.0	54.0	-27.0	-19.0	H		
7.232	9.8	44.0	31.1	36.1	4.4	-36.3	0.0	1.0	49.2	36.3	74.0	54.0	-24.8	-17.7	H		
8.136	9.8	41.5	29.8	37.3	4.7	-35.8	0.0	1.0	48.7	37.0	74.0	54.0	-25.3	-17.0	H		
9.040	9.8	41.9	29.9	38.8	5.1	-35.3	0.0	1.0	51.4	39.4	74.0	54.0	-22.6	-14.6	H		
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim	Average Field Strength Limit		Pk Lim	Peak Field Strength Limit		Avg Mar	Margin vs. Average Limit		Pk Mar	Margin vs. Peak Limit	
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters													
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m													
AF	Antenna Factor		Peak	Calculated Peak Field Strength													
CL	Cable Loss		HPF	High Pass Filter													

