

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

Test Engr: VIEN TRAN
Project #: 0311880-1
Company: Alvarion
EUT Descrp.: 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	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T60; S/N: 2238 @3m	Miteq NSP2600-44	8593EM Analyzer	

Hi Frequency Cables

☐ (2 ft)	☐ (2 ~ 3 ft)	☒ (4 ~ 6 ft)	☒ (12 ft)
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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		
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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[illegible]

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