

Test Engr: VIEN TRAN
Project #: 0311880-1
Company: Alvarion
EUT Descrp.: Alvarion 902-928MHz DTS Device w/ 6dBi OMNI
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	55.2	46.4	27.9	1.5	-36.4	0.0	1.0	49.3	40.5	74.0	54.0	-24.7	-13.5	V, 2nd Har
2.712	9.8	46.4	32.4	30.1	2.3	-36.3	0.0	1.0	43.5	29.6	74.0	54.0	-30.5	-24.4	V
3.616	9.8	44.2	31.3	31.9	2.9	-36.2	0.0	1.0	43.7	30.8	74.0	54.0	-30.3	-23.2	V
4.520	9.8	44.6	31.7	32.9	3.3	-36.1	0.0	1.0	45.7	32.8	74.0	54.0	-28.3	-21.2	V
5.424	9.8	43.1	31.1	33.8	3.7	-36.1	0.0	1.0	45.3	33.4	74.0	54.0	-28.7	-20.6	V
6.328	9.8	43.8	31.8	34.9	4.1	-36.3	0.0	1.0	47.4	35.5	74.0	54.0	-26.6	-18.5	V
7.232	9.8	44.1	32.5	36.1	4.4	-36.3	0.0	1.0	49.3	37.6	74.0	54.0	-24.7	-16.4	V
8.136	9.8	42.3	30.8	37.3	4.7	-35.8	0.0	1.0	49.5	38.0	74.0	54.0	-24.5	-16.0	V
9.040	9.8	41.3	30.0	38.8	5.1	-35.3	0.0	1.0	50.8	39.6	74.0	54.0	-23.2	-14.4	V
1.808	9.8	50.3	41.3	27.9	1.5	-36.4	0.0	1.0	44.3	35.3	74.0	54.0	-29.7	-18.7	H, 2nd har.
2.712	9.8	45.7	32.7	30.1	2.3	-36.3	0.0	1.0	42.9	29.9	74.0	54.0	-31.1	-24.1	H
3.616	9.8	43.4	31.0	31.9	2.9	-36.2	0.0	1.0	43.0	30.5	74.0	54.0	-31.0	-23.5	H
4.520	9.8	42.7	31.6	32.9	3.3	-36.1	0.0	1.0	43.8	32.7	74.0	54.0	-30.2	-21.3	H
5.424	9.8	44.6	32.6	33.8	3.7	-36.1	0.0	1.0	46.9	34.9	74.0	54.0	-27.1	-19.1	H
6.328	9.8	42.9	31.2	34.9	4.1	-36.3	0.0	1.0	46.5	34.8	74.0	54.0	-27.5	-19.2	H
7.232	9.8	44.7	32.4	36.1	4.4	-36.3	0.0	1.0	49.8	37.6	74.0	54.0	-24.2	-16.4	H
8.136	9.8	42.6	31.1	37.3	4.7	-35.8	0.0	1.0	49.9	38.3	74.0	54.0	-24.1	-15.7	H
9.040	9.8	42.5	30.3	38.8	5.1	-35.3	0.0	1.0	52.0	39.8	74.0	54.0	-22.0	-14.2	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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Mode Oper: Constant Tx Hi ch

Hi Frequency Cables

☐ (2 ft)	☐ (2 ~ 3 ft)	☒ (4 ~ 6 ft)	☒ (12 ft)
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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
0.926															V
1.852	9.8	57.9	51.2	28.2	1.6	-36.4	0.0	1.0	52.2	45.5	74.0	54.0	-21.8	-8.5	V, 2nd Har
2.778	9.8	46.4	33.1	30.2	2.4	-36.3	0.0	1.0	43.7	30.4	74.0	54.0	-30.3	-23.6	V
3.704	9.8	58.9	46.5	32.0	2.9	-36.2	0.0	1.0	58.6	46.2	74.0	54.0	-15.4	-7.8	V
4.630	9.8	60.2	41.0	33.0	3.3	-36.1	0.0	1.0	61.4	42.2	74.0	54.0	-12.6	-11.8	V
5.556	9.8	47.6	34.3	33.9	3.7	-36.2	0.0	1.0	50.1	36.8	74.0	54.0	-23.9	-17.2	V
6.482	9.8	45.3	32.0	35.1	4.1	-36.3	0.0	1.0	49.1	35.8	74.0	54.0	-24.9	-18.2	V
7.408	9.8	43.6	31.9	36.4	4.5	-36.2	0.0	1.0	49.2	37.4	74.0	54.0	-24.8	-16.6	V
8.344	9.8	42.7	30.3	37.7	4.8	-35.7	0.0	1.0	50.5	38.1	74.0	54.0	-23.5	-15.9	V
9.260	9.8	42.3	30.9	38.7	5.1	-35.3	0.0	1.0	51.7	40.3	74.0	54.0	-22.3	-13.7	V
1.852	9.8	57.1	50.6	28.2	1.6	-36.4	0.0	1.0	51.4	44.9	74.0	54.0	-22.6	-9.1	H, 2nd har.
2.778	9.8	45.4	32.2	30.2	2.4	-36.3	0.0	1.0	42.7	29.5	74.0	54.0	-31.3	-24.5	H
3.704	9.8	53.8	41.8	32.0	2.9	-36.2	0.0	1.0	53.5	41.5	74.0	54.0	-20.5	-12.5	H
4.630	9.8	55.8	41.7	33.0	3.3	-36.1	0.0	1.0	57.0	42.9	74.0	54.0	-17.0	-11.1	H
5.556	9.8	46.5	33.9	33.9	3.7	-36.2	0.0	1.0	49.0	36.4	74.0	54.0	-25.0	-17.6	H
6.482	9.8	44.1	32.0	35.1	4.1	-36.3	0.0	1.0	48.0	35.8	74.0	54.0	-26.0	-18.2	H
7.408	9.8	42.9	31.8	36.4	4.5	-36.2	0.0	1.0	48.4	37.3	74.0	54.0	-25.6	-16.7	H
8.344	9.8	42.2	30.5	37.7	4.8	-35.7	0.0	1.0	50.0	38.3	74.0	54.0	-24.0	-15.7	H
9.260	9.8	42.8	30.1	38.7	5.1	-35.3	0.0	1.0	52.2	39.6	74.0	54.0	-21.8	-14.4	H
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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
0.915				3.6	0.8	-5.5		1.0			#N/A	#N/A			V
1.830	9.8	56.6	48.9	28.1	1.6	-36.4	0.0	1.0	50.8	43.1	74.0	54.0	-23.2	-10.9	V, 2nd Har
2.745	9.8	47.4	34.9	30.2	2.4	-36.3	0.0	1.0	44.6	32.1	74.0	54.0	-29.4	-21.9	V
3.660	9.8	55.1	40.0	31.9	2.9	-36.2	0.0	1.0	54.7	39.6	74.0	54.0	-19.3	-14.4	V
4.575	9.8	56.4	42.6	33.0	3.3	-36.1	0.0	1.0	57.6	43.8	74.0	54.0	-16.4	-10.2	V
5.490	9.8	44.5	31.6	33.8	3.7	-36.2	0.0	1.0	46.9	34.0	74.0	54.0	-27.1	-20.0	V
6.405	9.8	43.8	31.8	35.0	4.1	-36.3	0.0	1.0	47.5	35.6	74.0	54.0	-26.5	-18.4	V
7.320	9.8	44.5	32.1	36.2	4.4	-36.3	0.0	1.0	49.8	37.5	74.0	54.0	-24.2	-16.5	V
8.235	9.8	42.7	30.6	37.5	4.8	-35.7	0.0	1.0	50.2	38.1	74.0	54.0	-23.8	-15.9	V
9.150	9.8	42.2	30.4	38.8	5.1	-35.3	0.0	1.0	51.7	39.9	74.0	54.0	-22.3	-14.1	V
1.830	9.8	52.5	44.5	28.1	1.6	-36.4	0.0	1.0	46.7	38.6	74.0	54.0	-27.3	-15.4	H, 2nd har.
2.745	9.8	46.0	32.4	30.2	2.4	-36.3	0.0	1.0	43.3	29.7	74.0	54.0	-30.7	-24.3	H
3.660	9.8	45.4	32.9	31.9	2.9	-36.2	0.0	1.0	45.1	32.5	74.0	54.0	-28.9	-21.5	H
4.575	9.8	46.5	32.8	33.0	3.3	-36.1	0.0	1.0	47.7	34.0	74.0	54.0	-26.3	-20.0	H
5.490	9.8	42.9	31.7	33.8	3.7	-36.2	0.0	1.0	45.2	34.1	74.0	54.0	-28.8	-19.9	H
6.405	9.8	44.2	32.2	35.0	4.1	-36.3	0.0	1.0	47.9	36.0	74.0	54.0	-26.1	-18.0	H
7.320	9.8	44.1	32.1	36.2	4.4	-36.3	0.0	1.0	49.5	37.5	74.0	54.0	-24.5	-16.5	H
8.235	9.8	41.7	30.5	37.5	4.8	-35.7	0.0	1.0	49.1	38.0	74.0	54.0	-24.9	-16.0	H
9.150	9.8	42.7	30.2	38.8	5.1	-35.3	0.0	1.0	52.2	39.7	74.0	54.0	-21.8	-14.3	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								