

High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Company: APERTO Networks

Project #: 08U11585

Date: 02/04/2008

Test Operator: Thanh Nguyen

Configuration: EUT (Radio and Antenna) Horizontal position w/ remote Base Station

Mode: transmit QPSK, 7MHz Ch BW

Test Equipment:

Horn 1-18GHz

T60; S/N: 2238 @3m

Pre-amplifier 1-26GHz

T34 HP 8449B

Pre-amplifier 26-40GHz

Horn > 18GHz

Hi Frequency Cables

2 foot cable

3 foot cable

12 foot cable

A-5m Chamber

HPF

Reject Filter

Peak Measurements

RBW=VBW=1MHz

Average Measurements

RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Tx Low channel 5728.5MHz															
11.457	3.0	35.5	24.4	37.4	11.6	-32.5	0.0	0.0	51.9	40.8	74	54	-22.1	-13.2	V
17.182	3.0	34.5	24.7	41.5	13.3	-32.0	0.0	0.0	57.3	47.4	74	54	-16.7	-6.6	Noise floor
11.457	3.0	35.4	24.4	37.4	11.6	-32.5	0.0	0.0	51.8	40.8	74	54	-22.2	-13.2	H
17.185	3.0	35.3	24.6	41.5	13.3	-32.0	0.0	0.0	58.1	47.4	74	54	-15.9	-6.6	Noise floor
Tx Mid Channel 5787.5MHz															
11.575	3.0	36.4	25.2	37.4	11.7	-32.5	0.0	0.0	52.9	41.8	74	54	-21.1	-12.2	V
17.362	3.0	36.7	24.7	42.2	13.3	-32.1	0.0	0.0	60.2	48.1	74	54	-13.8	-5.9	Noise floor
11.575	3.0	34.6	23.8	37.4	11.7	-32.5	0.0	0.0	51.1	40.3	74	54	-22.9	-13.7	H
17.362	3.0	35.2	24.7	42.2	13.3	-32.1	0.0	0.0	58.7	48.1	74	54	-15.3	-5.9	Noise floor
Tx High Ch. 5846.5MHz															
11.693	3.0	41.0	24.3	37.4	11.8	-32.5	0.0	0.0	57.7	41.0	74	54	-16.3	-13.0	V
17.543	3.0	35.5	24.6	42.8	13.4	-32.1	0.0	0.0	59.5	48.6	74	54	-14.5	-5.4	Noise floor
11.693	3.0	38.6	24.2	37.4	11.8	-32.5	0.0	0.0	55.3	40.9	74	54	-18.7	-13.1	H
17.539	3.0	31.6	23.9	42.8	13.4	-32.1	0.0	0.0	55.6	47.9	74	54	-18.4	-6.1	Noise floor
Spurious Emissions															
1.067	3.0	51.0	44.4	25.6	3.1	-38.2	0.0	0.0	41.5	34.9	74	54	-32.5	-19.1	H
2.883	3.0	46.3	30.2	30.1	5.2	-36.0	0.0	0.0	45.7	29.6	74	54	-28.3	-24.4	H
1.060	3.0	49.1	41.7	25.6	3.1	-38.2	0.0	0.0	39.6	32.2	74	54	-34.4	-21.8	V

Rev. 4.12.7

f

Measurement Frequency

Dist

Distance to Antenna

Read

Analyzer Reading

AF

Antenna Factor

CL

Cable Loss

Amp

Preamp Gain

D Corr

Distance Correct to 3 meters

Avg

Average Field Strength @ 3 m

Peak

Calculated Peak Field Strength

HPF

High Pass Filter

Avg Lim

Average Field Strength Limit

Pk Lim

Peak Field Strength Limit

Avg Mar

Margin vs. Average Limit

Pk Mar

Margin vs. Peak Limit