

Client:	Nextivity Inc	Job Number:	J86441
Model:	RS225 WU and RS225 CU	T-Log Number:	T86829
		Account Manager:	Sheareen Washington
Contact:	Steve van Skike		
Standard:	RSS 132, RSS 133, FCC Part 22, FCC Part 24	Class:	-

Maximum Permissible Exposure

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 4/27/2012

Test Engineer: David Bare

General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density (W/m^2), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Device complies with Power Density requirements at 20cm separation:	Yes
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Use: General

Used for Multiple Transmitters

CU unit (a transmitted "channel" for both WCDMA and OFDM consists of the 3 WCDMA sub channels or the 6 OFDM subchannels respectively. All sub channels were present during power measurements.)

Band	Mode	Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP	
		Peak	Average		dBm	W			W	dBm
869-894	WCDMA		10.2	0.0	10.2	0.010	5	3	0.031	14.97
5470-5725	OFDM		20.6	5.5	26.1	0.407	7	1	0.407	26.10
Totals:								4	0.439	26.42

Power Density (S) @ 20cm (mW/cm²) 0.087
MPE Limit @ 20cm (mW/cm²) 1.0
Distance at which S > MPE Limit 5.9cm

CU unit (a transmitted "channel" for both WCDMA and OFDM consists of the 3 WCDMA sub channels or the 6 OFDM subchannels respectively. All sub channels were present during power measurements.)

Band	Mode	Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP	
		Peak	Average		dBm	W			W	dBm
1930-1990	WCDMA		10.0	0.0	10.0	0.010	5	3	0.030	14.77
5470-5725	OFDM		20.6	5.5	26.1	0.407	7	1	0.407	26.10
Totals:								4	0.437	26.41

Power Density (S) @ 20cm (mW/cm²) 0.087
MPE Limit @ 20cm (mW/cm²) 1.0
Distance at which S > MPE Limit 5.9cm

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WU unit (a transmitted "channel" for both WCDMA and OFDM consists of the 3 WCDMA sub channels or the 6 OFDM subchannels respectively. All sub channels were present during power measurements.)

Band	Mode	Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP	
		Peak	Average		dBm	W			W	dBm
824-849	WCDMA		17.3	4.4	21.7	0.148	5	3	0.444	26.47
5150-5350	OFDM		16.6	5.5	22.1	0.162	5	1	0.162	22.10
Totals:								4	0.606	27.82

Power Density (S) @ 20cm (mW/cm²) 0.121
MPE Limit @ 20cm (mW/cm²) 1.0
Distance at which S > MPE Limit 6.9cm

WU unit (a transmitted "channel" for both WCDMA and OFDM consists of the 3 WCDMA sub channels or the 6 OFDM subchannels respectively. All sub channels were present during power measurements.)

Band	Mode	Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP	
		Peak	Average		dBm	W			W	dBm
1850-1910	WCDMA		19.1	4.4	23.5	0.224	5	3	0.672	28.27
5150-5350	OFDM		16.6	5.5	22.1	0.162	5	1	0.162	22.10
Totals:								4	0.834	29.21

Power Density (S) @ 20cm (mW/cm²) 0.166
MPE Limit @ 20cm (mW/cm²) 1.0
Distance at which S > MPE Limit 8.1cm