

Client: Nextivity, Inc.	Job Number: J89693
Model: CELFI-RS224CU	T-Log Number: T89733
	Account Manager: Christine Krebill
Contact: Michiel Lotter	
Standard: FCC parts 15, 24 and 27	Class: N/A

## 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: 12/18/2012

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
2110-2155	WCDMA		13.3	0.0	13.3	0.021	5	1	0.021	13.30
5470-5725	OFDM		16.7	5.5	22.2	0.166	7	1	0.166	22.20
Totals:								2	0.187	22.73

Power Density (S) @ 20cm (mW/cm<sup>2</sup>)      0.037  
MPE Limit @ 20cm (mW/cm<sup>2</sup>)                      1.0  
Distance at which S > MPE Limit                3.9cm

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		13.1	0.0	13.1	0.020	5	1	0.020	13.10
5470-5725	OFDM		16.7	5.5	22.2	0.166	7	1	0.166	22.20
Totals:								2	0.186	22.70

Power Density (S) @ 20cm (mW/cm<sup>2</sup>)      0.037  
MPE Limit @ 20cm (mW/cm<sup>2</sup>)                      1.0  
Distance at which S > MPE Limit                3.9cm

Total Power Density (S) @ 20cm (mW/cm<sup>2</sup>)      0.074