1.1. Test Result of RF Exposure Evaluation

. Product: BCM3380Z D3.0 Wireless eMTA

Test Item: RF Exposure Evaluation Data

.Test Mode: Normal Operation

1.1.1. Antenna Gain

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	WHA YU	YU C107-510733-A Metal PIFA		l U.FI	4.1dB@2.4G 4.1dB@5G
2	WHA YU	C107-510734-A	Metal PIFA	U.FL	4.1dB@2.4G 4.4dB@5G

1.1.2. EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

1.1.3. Output Power into Antenna & RF Exposure Evaluation Distance

1.1.4. Modulation Type: 802.11b: CCK, DQPSK, DBPSK / 802.11a/g:OFDM

802.11n: OFDM (2 TX & 2 RX)

TX B MODE CH01, CH06, CH11

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
4.1	2.5704	21.47	140.2814	0.071771	1	Complies
4.1	2.5704	22.82	191.4256	0.097938	1	Complies
4.1	2.5704	20.67	116.6810	0.059697	1	Complies

TX G MODE CH01, CH06, CH11

Test Date: Oct 20, 2010 Temperature:24℃ Humidity: 60%

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	•	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
4.1	2.5704	18.34	68.2339	0.034910	1	Complies
4.1	2.5704	18.76	75.1623	0.038455	1	Complies
4.1	2.5704	17.50	56.2341	0.028771	1	Complies

TX N-20M MODE CH01, CH06, CH11 (WITH COMBINER)

Test Date: Oct 20, 2010 Temperature:24℃ Humidity: 60%

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	•	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
7.1	5.1286	21.04	127.0574	0.129703	1	Complies
7.1	5.1286	21.07	127.9381	0.130602	1	Complies

7.1	5.1286	21.18	131.2200	0.133952	1	Complies
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TX N-40M MODE CH03, CH06, CH09 (WITH COMBINER)

Test Date: Oct 20, 2010 Temperature:24℃ Humidity: 60%

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
7.1	5.1286	20.21	104.9542	0.107140	1	Complies
7.1	5.1286	20.29	106.9055	0.109132	1	Complies
7.1	5.1286	20.03	100.6932	0.102790	1	Complies

TX 11a MODE CH149, CH157, CH165

Test Date: Oct 20, 2010 Temperature: 24°C Humidity: 60%

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
4.4	2.7542	16.73	47.0977	0.025820	1	Complies
4.4	2.7542	16.12	40.9261	0.022436	1	Complies
4.4	2.7542	16.89	48.8652	0.026789	1	Complies

TX N-20M MODE CH149, CH157, CH165 (WITH COMBINER)

Test Date: Oct 20, 2010 Temperature: 24°C Humidity: 60%

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
7.26	5.3211	19.27	84.5279	0.089526	1	Complies
7.26	5.3211	19.39	86.8960	0.092034	1	Complies
7.26	5.3211	20.04	100.9253	0.106893	1	Complies

TX N-40M MODE CH151, CH159 (WITH COMBINER)

Test Date: Oct 20, 2010 Temperature:24℃ Humidity: 60%

7.26	5.3211	18.40	69.1831	0.073274	1	Complies
7.26	5.3211	18.28	67.2977	0.071277	1	Complies
Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	•	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result

The worst data is calculated as **0.133952** mW/cm² < limit 1 mW/cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.