CH4 and CH5 RF Report

1. Results of Maximum Conducted Output Power

Temperature	23°C	Humidity	63%
Test Engineer	Benson Peng	Configurations	IEEE 802.11n
Test Date	Apr. 04, 2013		

For 1TX

Configuration IEEE 802.11n MCS0 40MHz / Ant. 1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
4	2427 MHz	13.7	30.00	Complies
5	2432 MHz	13.64	30.00	Complies

For 2TX

Configuration IEEE 802.11n MCS0 40MHz

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Ant. 1	Ant. 2			
4	2427 MHz	11.54	11.41	14.49	30.00	Complies
5	2432 MHz	12.57	12.42	15.51	30.00	Complies

2. Test Result of Band Edge and Fundamental Emissions

For 1TX

Temperature	24.5℃	Humidity	57%
Test Engineer	David Tesng	Configurations	IEEE 802.11n MCS0 40MHz Ch 4, 5 / Ant. 1 + Ant. 2
Test date	Apr. 04, 2013		

Channel 4

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2388.72	73.54	74.00	-0.46	41.52	3.97	28.05	0.00	Peak	150	21	HORIZONTAL
2	2390.00	50.85	54.00	-3.15	18.83	3.97	28.05	0.00	Average	150	21	HORIZONTAL
3	2420.91	105.35			73.22	4.00	28.13	0.00	Peak	150	21	HORIZONTAL
4	2431.81	93.49			61.36	4.00	28.13	0.00	Average	150	21	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2427 MHz.

Channel 5

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2387.12	73.60	74.00	-0.40	41.58	3.97	28.05	0.00	Peak	177	148	HORIZONTAL
2	2390.00	50.13	54.00	-3.87	18.11	3.97	28.05	0.00	Average	177	148	HORIZONTAL
3	2417.58	103.95			71.83	3.99	28.13	0.00	Peak	177	148	HORIZONTAL
4	2419.18	92.01			59.89	3.99	28.13	0.00	Average	177	148	HORIZONTAL
5	2483.50	44.90	54.00	-9.10	12.59	4.05	28.26	0.00	Average	177	148	HORIZONTAL
6	2483.82	65.97	74.00	-8.03	33.66	4.05	28.26	0.00	Peak	177	148	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2432MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For 2TX

Temperature	24.5℃	Humidity	57%
Test Engineer	David Tesng	Configurations	IEEE 802.11n MCS0 40MHz Ch 4, 5 / Ant. 1
Test date	Apr. 04, 2013		

Channel 4

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.68	52.68	54.00	-1.32	20.66	3.97	28.05	0.00	Average	153	144	HORIZONTAL
2	2390.00	73.54	74.00	-0.46	41.52	3.97	28.05	0.00	Peak	153	144	HORIZONTAL
3	2419.63	104.92			72.79	4.00	28.13	0.00	Peak	153	144	HORIZONTAL
4	2419.95	93.55			61.42	4.00	28.13	0.00	Average	153	144	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2427 MHz.

Channel 5

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2388.08	73.45	74.00	-0.55	41.43	3.97	28.05	0.00	Peak	155	144	HORIZONTAL
2	2390.00	53.59	54.00	-0.41	21.57	3.97	28.05	0.00	Average	155	144	HORIZONTAL
3	2419.82	94.35			62.22	4.00	28.13	0.00	Average	155	144	HORIZONTAL
4	2420.14	105.90			73.77	4.00	28.13	0.00	Peak	155	144	HORIZONTAL
5	2483.50	41.34	54.00	-12.66	9.03	4.05	28.26	0.00	Average	155	144	HORIZONTAL
6	2484.14	60.42	74.00	-13.58	28.11	4.05	28.26	0.00	Peak	155	144	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2432MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.