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5755MHz (30MHz~25GHz)-802.11n(40M)-ANT 0



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5795MHz (30MHz~25GHz) -802.11n(40M)-ANT 0



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5755MHz (30MHz~25GHz)-802.11n(40M)-ANT 1



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5795MHz (30MHz~25GHz) -802.11n(40M)-ANT 1



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5755MHz (30MHz~25GHz)-802.11n(40M)-ANT 2



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MRR 1 2	N	1	f			× 5.7	98 GHz		-4.859 d	Bm Bm	FUNI	,HUN	FUN	CTION WIDTH	FUNCT	UN VALUE		
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5795MHz (30MHz~25GHz) -802.11n(40M)-ANT 2

6. Radiated Emission Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

6.6. Uncertainty

The measurement uncertainty ± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2012/02/24 - 17:33
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11b_2412MHz_



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	29.779	25.062	54.841	-19.159	74.000	PEAK
2		2387.705	30.555	28.847	59.402	-14.598	74.000	PEAK
3	*	2390.000	30.578	30.116	60.694	-13.306	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/24 - 17:34
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11b_2412MHz_



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	29.779	14.026	43.805	-10.195	54.000	AVERAGE
2		2386.926	30.548	19.085	49.632	-4.368	54.000	AVERAGE
3	*	2390.000	30.578	19.157	49.735	-4.265	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/24 - 17:35
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11b_2412MHz_



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	29.779	25.032	54.811	-19.189	74.000	PEAK
2		2359.421	30.273	28.038	58.311	-15.689	74.000	PEAK
3	*	2390.000	30.578	29.497	60.075	-13.925	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/24 - 17:36
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11b_2412MHz_



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	29.779	14.191	43.970	-10.030	54.000	AVERAGE
2		2358.383	30.262	17.880	48.142	-5.858	54.000	AVERAGE
3	*	2390.000	30.578	19.186	49.764	-4.236	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/03/14 - 19:25
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11b_2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2483.500	31.512	29.196	60.708	-13.292	74.000	PEAK
2	*	2486.240	31.539	29.818	61.357	-12.643	74.000	PEAK
3		2500.000	31.638	27.490	59.129	-14.871	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/03/14 - 19:25
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11b_2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	31.512	18.439	49.951	-4.049	54.000	AVERAGE
2		2500.000	31.638	16.878	48.517	-5.483	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/03/14 - 19:28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11b_2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	31.512	30.188	61.700	-12.300	74.000	PEAK
2		2500.000	31.638	29.078	60.717	-13.283	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/03/14 - 19:28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11b_2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	31.512	20.366	51.878	-2.122	54.000	AVERAGE
2		2487.800	31.555	20.012	51.567	-2.433	54.000	AVERAGE
3		2500.000	31.638	18.514	50.153	-3.847	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 10:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11g_ 2412MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	26.408	54.671	-19.329	74.000	PEAK
2	*	2389.167	28.572	40.208	68.780	-5.220	74.000	PEAK
3		2390.000	28.575	39.353	67.928	-6.072	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 10:46
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11g_ 2412MHz



		riequency		Reading Level		margin		Deteotor type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	13.840	42.103	-11.897	54.000	AVERAGE
2		2389.792	28.574	22.605	51.179	-2.821	54.000	AVERAGE
3	*	2390.000	28.575	22.826	51.401	-2.599	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 10:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11g_ 2412MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	25.024	53.287	-20.713	74.000	PEAK
2	*	2389.375	28.573	36.549	65.122	-8.878	74.000	PEAK
3		2390.000	28.575	36.283	64.858	-9.142	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 10:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11g_ 2412MHz



		rioquonoy		Redding Level		margin		Deteotor Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	13.304	41.567	-12.433	54.000	AVERAGE
2		2389.900	28.575	20.627	49.202	-4.798	54.000	AVERAGE
3	*	2390.000	28.575	20.779	49.354	-4.646	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 13:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11g_ 2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	28.716	32.650	61.366	-12.634	74.000	PEAK
2		2485.200	28.718	31.609	60.327	-13.673	74.000	PEAK
3		2500.000	28.729	25.387	54.116	-19.884	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 13:18
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11g_ 2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2483.500	28.716	16.691	45.407	-8.593	54.000	AVERAGE
2	*	2483.600	28.716	16.706	45.422	-8.578	54.000	AVERAGE
3		2500.000	28.729	12.523	41.252	-12.748	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 13:13
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11g_ 2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	28.716	37.692	66.408	-7.592	74.000	PEAK
2		2484.900	28.718	37.457	66.174	-7.826	74.000	PEAK
3		2500.000	28.729	27.032	55.761	-18.239	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 13:14
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11g_ 2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2483.500	28.716	20.575	49.291	-4.709	54.000	AVERAGE
2	*	2483.600	28.716	20.586	49.302	-4.698	54.000	AVERAGE
3		2500.000	28.729	14.193	42.922	-11.078	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 10:54
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(20MHz)_ 2412MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	26.202	54.465	-19.535	74.000	PEAK
2		2389.792	28.574	38.104	66.678	-7.322	74.000	PEAK
3	*	2390.000	28.575	38.237	66.812	-7.188	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 10:55
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(20MHz)_ 2412MHz



		riequency	Concorración	Redding Level		margin		Deteotor Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	14.039	42.302	-11.698	54.000	AVERAGE
2		2389.900	28.575	23.754	52.329	-1.671	54.000	AVERAGE
3	*	2390.000	28.575	23.876	52.451	-1.549	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(20MHz)_ 2412MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	26.810	55.073	-18.927	74.000	PEAK
2	*	2389.900	28.575	37.722	66.297	-7.703	74.000	PEAK
3		2390.000	28.575	37.350	65.925	-8.075	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:04
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(20MHz)_2412MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	13.791	42.054	-11.946	54.000	AVERAGE
2		2389.900	28.575	23.327	51.902	-2.098	54.000	AVERAGE
3	*	2390.000	28.575	23.420	51.995	-2.005	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:53
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(20MHz)_ 2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2483.500	28.716	35.560	64.276	-9.724	74.000	PEAK
2	*	2483.900	28.716	36.598	65.315	-8.685	74.000	PEAK
3		2500.000	28.729	27.051	55.780	-18.220	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:55
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(20MHz)_ 2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	28.716	22.640	51.356	-2.644	54.000	AVERAGE
2		2483.700	28.716	22.444	51.160	-2.840	54.000	AVERAGE
3		2500.000	28.729	14.430	43.159	-10.841	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 13:07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(20MHz)_ 2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2483.500	28.716	36.580	65.296	-8.704	74.000	PEAK
2	*	2484.600	28.717	37.326	66.043	-7.957	74.000	PEAK
3		2500.000	28.729	30.420	59.149	-14.851	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 13:08
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(20MHz)_ 2462MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	28.716	23.613	52.329	-1.671	54.000	AVERAGE
2		2483.600	28.716	23.577	52.293	-1.707	54.000	AVERAGE
3		2500.000	28.729	15.204	43.933	-10.067	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:11
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(40MHz)_ 2422MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	25.886	54.149	-19.851	74.000	PEAK
2	*	2389.900	28.575	33.151	61.726	-12.274	74.000	PEAK
3		2390.000	28.575	33.017	61.592	-12.408	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(40MHz)_ 2422MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	13.586	41.849	-12.151	54.000	AVERAGE
2		2389.658	28.574	19.928	48.502	-5.498	54.000	AVERAGE
3	*	2389.900	28.575	19.998	48.573	-5.427	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:16
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(40MHz)_ 2422MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	27.362	55.625	-18.375	74.000	PEAK
2		2389.900	28.575	35.813	64.388	-9.612	74.000	PEAK
3	*	2390.000	28.575	35.822	64.397	-9.603	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:18
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(40MHz)_ 2422MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2310.000	28.263	15.144	43.407	-10.593	54.000	AVERAGE
2		2389.900	28.575	23.243	51.818	-2.182	54.000	AVERAGE
3	*	2390.000	28.575	23.246	51.821	-2.179	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
| Site : CB1 | Time : 2012/02/29 - 11:47 |
|---|--------------------------------|
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : AC 120V/60Hz |
| EUT : Dual-band Wireless-N Adapter | Note : 802.11n(40MHz)_ 2452MHz |



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2483.500	28.716	30.983	59.699	-14.301	74.000	PEAK
2	*	2488.367	28.720	31.801	60.521	-13.479	74.000	PEAK
3		2500.000	28.729	27.373	56.102	-17.898	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:48
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(40MHz)_ 2452MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	28.716	18.028	46.744	-7.256	54.000	AVERAGE
2		2483.967	28.716	17.894	46.611	-7.389	54.000	AVERAGE
3		2500.000	28.729	15.218	43.947	-10.053	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:44
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(40MHz)_ 2452MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2483.500	28.716	33.581	62.297	-11.703	74.000	PEAK
2	*	2488.183	28.720	35.320	64.040	-9.960	74.000	PEAK
3		2500.000	28.729	31.264	59.993	-14.007	74.000	PEAK

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/02/29 - 11:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N Adapter	Note : 802.11n(40MHz)_ 2452MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2483.500	28.716	20.579	49.295	-4.705	54.000	AVERAGE
2		2483.600	28.716	20.539	49.255	-4.745	54.000	AVERAGE
3		2500.000	28.729	17.416	46.145	-7.855	54.000	AVERAGE

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Occupied Bandwidth

7.1. Test Equipment

The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 1-5 % of the emission bandwidth (EBW).

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

7.6. Uncertainty

The measurement uncertainty is defined as ±150Hz

7.7. **Test Result**

Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/13	Test Site	SR7

802.11 b	
----------	--

802.11 D						
Channel No.	Frequency	Frequency Measurement Level		Posult		
	(MHz)	(MHz)	(MHz)	Result		
1	2412	12.67	≧0.5	Pass		
6	2437	12.67	≧0.5	Pass		
11	2462	12.66	≧0.5	Pass		











Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/13	Test Site	SR7

IEEE 802.11g					
Channel No.	Frequency	Measurement Level	Required Limit	Result	
Channel NO.	(MHz)	(MHz)	(MHz)		
1	2412	16.38	≧0.5	Pass	
6	2437	16.39	≧0.5	Pass	
11	2462	16.38	≧0.5	Pass	

<u>Channel 1</u>

Sole Attransmit Porter Free; 22: 21200000 GHz Porter Free; 2: 21200000 GHz Radio Std: None Radio Std: None Radio Std: None Radio Std: None 10 dB/div Ref 20 dBm Radio Device: BTS 10 dB/div Ref 20 dBm Marten: 30 dB 10 dB/div Marten: 30 dB Span 26 MHz 10 dB/div Total Power 25.93 dBm 10 dB/div 16.38 MHz MB	Agilent Spec	trum Analyze	er - Occu	upied BW									
WIFGaindLow #Atten: 30 dB Radio Device: BTS Res BW 10 dB/div Ref 20 dBm Mar 10 dB/div Ref 20 dBm Video BW 10 dB/div Ref 20 dBm Wate 10 dB/div Ref 20 dBm Span 26 MHz 10 dB/div Total Power 25.93 dBm 16.881 MHz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB 16.38 MHz x dB -6.00 dB	RBW 300	50 Ω).00 kHz	Innut	RE		C SE Center Fr Trig: F <u>ree</u>	NSE:INT req: 2.41200 e Run	00000 GHz Avg Hold	ALIGN AUTO	09:44:41 Radio Sto	AM Mar 13, 2012 I: None		BW
Auto Mar Auto Mar Video BW 910.00 KH2 War Video BW 910.00 KH2 War Video BW 910.00 KH2 War Mar Mar Mar Mar Mar Mar Mar M			mput.	#IFG	ain:Low	#Atten: 30	0 dB			Radio De	vice: BTS		Res BW
Image: constraint of the system of the sy	10 dB/div	Ref 2	0 dBr	n								Auto	<u>Man</u>
Image: state of the state	10				<u> </u>	<u>^</u>		- 0.0					Video BW
Image: state of the state	0		\sim							\sum		Auto	910.00 kHz Man
Image: state of the state	-10												
ad ad <td< td=""><td>-20</td><td>m</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>سر ا</td><td>m</td><td></td><td></td></td<>	-20	m								سر ا	m		
40 40 <td< td=""><td>-30</td><td>/</td><td>_</td><td></td><td></td><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	-30	/	_			C							
-60 -	-40												
-60 -	-50												
-70 Image: Conter 2.412 GHz Span 26 MHz Span 26 MHz Gaussian Center 2.412 GHz #VBW 910 kHz Sweep 1 ms Gaussian Occupied Bandwidth Total Power 25.93 dBm Image: Conter 2.422 GHz Gaussian Dccupied Bandwidth Total Power 99.00 % Image: Conter 2.422 GHz Status Marcon -72328 Hz OBW Power 99.00 % Image: Conter 2.422 GHz Image: Conter 2.422 GHz Marcon -72328 Hz OBW Power 99.00 % Image: Conter 2.422 GHz Image: Conter 2.422	-60												
Center 2.412 GHz #Res BW 300 kHz	-70												_
Center 2.412 GHz Span 26 MHz #Res BW 300 kHz #VBW 910 kHz Sweep 1 ms Occupied Bandwidth Total Power 25.93 dBm 16.881 MHz Transmit Freq Error -72328 Hz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB -6.00 dB												F	ilter Type
Occupied Bandwidth Total Power 25.93 dBm 16.881 MHz Transmit Freq Error -72328 Hz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB -6.00 dB	Center 2.4 #Res BW	412 GHz 300 kHz				#VE	3W 910 I	Hz		Spa Sw	an 26 MHz eep 1 ms		Gaussian
16.881 MHz Transmit Freq Error -72328 Hz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB -6.00 dB	Occup	ied Ba	ndwi	dth			Total P	ower	25.9	3 dBm			
Transmit Freq Error -72328 Hz OBW Power 99.00 % x dB Bandwidth 16.38 MHz x dB -6.00 dB			10	16.8	81 MI	Ηz							
x dB Bandwidth 16.38 MHz x dB -6.00 dB	Transn	nit Freq I	Error		-72328	Hz	OBW F	ower	9	9.00 %			
	x dB B	andwidth	า		16.38 N	1Hz	x dB		-6	.00 dB			
ISG STATUS													
	MSG								STATU	IS			









Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/13	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)									
Channel No.	Frequency	Required Limit	Decult						
Channel No.	(MHz)	(MHz)	(MHz)	Result					
1	2412	17.59	≧0.5	Pass					
6	2437	17.58	≧0.5	Pass					
11	2462	17.60	≧0.5	Pass					

Agilent Spectrum Analy.	zer - Occupied BW						
x/ 50 Ω RBW 300.00 kHz	Z	AC SENSE:INT Center Freq: 2.4120	ALIGN 00000 GHz	IAUTO 10:01:55 A Radio Std	M Mar 13, 2012		BW
	Input: RF 🗕 🕞 #IFGain:Low	#Atten: 30 dB	Avg Hold:>10/1	Radio Dev	vice: BTS		Res BW
10 dB/div Ref	30 dBm					Auto	Man
20							Video BW
10		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N 100 1 100 1 100	7		Auto	910.00 kHz <u>Mar</u>
0				1 hours			
-10							
-20					m		
-40							
-50		2					
-60						F	ilter Type
Center 2.412 GHz		#\/D\W_040		Spa	n 26 MHz		Gaussian
#Res BW JUU KHZ		#VBW 910	KHZ	SWE	ep 1 ms		
Occupied Ba	ndwidth	Total I	Power 2	23.68 dBm			
	17.538 IVI	HZ					
Transmit Freq	Error -13616	Hz OBW	Power	99.00 %			
x dB Bandwidt	ih 17.59 l	/IHz xdB		-6.00 dB			
				CTATUC		_	
MSG				STATUS			









Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/13	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 1)									
Channel No.	Frequency	Measurement Level	Required Limit	Decult					
Channel No.	(MHz)	(MHz)	(MHz)	Result					
1	2412	17.51	≧0.5	Pass					
6	2437	17.53	≧0.5	Pass					
11	2462	17.60	≧0.5	Pass					

Agilent Spectrum Ana	lyzer - Occupied	IBW							
×/ 50 Ω RBW 300.00 kH	lz	AC	SENSE:INT Center Freq: 2.4120 Trig: Free Pup	00000 GHz		10:17:17 A Radio Std	M Mar 13, 2012 None		BW
	Input: RF	#IFGain:Low	#Atten: 30 dB	Avginola.		Radio Dev	vice: BTS		Res BW 300.00 kHz
10 dB/div Ref	30 dBm							Auto	<u>Man</u>
20									Video BW
10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	h	, mar	r.		Auto	910.00 kHz <u>Mar</u>
0									
-10						- Vo			
-30 mar mar							Well and the second second		
-40									
-60									_
Contor 2 442 OU						Ore	n DG MU-	F	ilter Type
#Res BW 300 kH	iz Iz		#VBW 910	kHz		Spa Swe	ep 1 ms		Gaussian
Occupied B	andwidt	h	Total F	ower	23.36	dBm			
	17	.529 MH	z						
Transmit Fre	q Error	-8629 H	Iz OBW I	Power	99.	00 %			
x dB Bandwid	dth	17.51 MH	lz xdB		-6.0	0 dB			
use					STATIS			_	
00					STATUS				









Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/13	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 2)									
Channel No.	Frequency	Measurement Level	Required Limit	Result					
	(MHz) (MHz)		(MHz)						
1	2412	17.63	≧0.5	Pass					
6	2437	17.59	≧0.5	Pass					
11	2462	17.62	≧0.5	Pass					











Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/13	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)						
Channel No.	Frequency	Measurement Level	Required Limit	Result		
	(MHz)	(MHz)	(MHz)			
3	2422	36.15	≧0.5	Pass		
6	2437	36.32	≧0.5	Pass		
9	2452	36.31	≧0.5	Pass		





<u>Channel 6</u>

D Agilent Spect	trum Analyzer -	Occupied BW								
× RBW 510	50 Ω .00 kHz		AC Center	SENSE:INT Freq: 2.4370	000000 GHz AvalHold	ALIGN AUTO	0 10:55: Radio 1	44 AM Mar 13, 2012 Std: None		BW
	In	put: RF #IFGain:L	.ow #Atten	30 dB			Radio I	Device: BTS		Res BW
10 dB/div	Ref 30 (1Bm							Auto	510.00 kHz <u>Man</u>
Log										Video BW
20						-				1.5000 MHz
10		m	menter and	V	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and and	manan		Auto	Man
-10	July 1							Ann		
-20 111 1 1 1 1 1 1	**							MUCKET VILLA		
-40					5					
-50										
-60										_
									F	Filter Type
Center 2.4 #Res BW	37 GHz 510 kHz		#1	/BW 1.51	MHz		S	pan 52 MHz weep 1 ms		Gaussian
Occup	ied Band	width		Total	Power	26.0	65 dBm	i		
		36.095	MHz							
Transm	it Freq Eri	ror -4	8120 Hz	OBW	Power	9	99.00 %			
x dB Ba	andwidth	36	.32 MHz	x dB		-(6.00 d B			
MSG						STAT	rus			



<u>Channel 9</u>

D Agilent Spectr	um Analyzer - Occu	pied BW	-					
RBW 510.	50 Ω 00 kHz		Center Freq: 2.4520	ALIC 000000 GHz AvalHold > 10	Radio S 11:04:5 Radio S	56 AM Mar 13, 2012 Std: None		BW
	Input: F	#IFGain:Low	#Atten: 30 dB	Sector Street and Sector Street	Radio D	evice: BTS		Res BW
10 dB/div	Ref 30 dBm	1					Auto	510.00 kHz <u>Man</u>
Log								Video BW
20							A	1.5000 MHz
10	mann	~~~#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man mouther	m	- man warman		Auto	IVIAII
10								
-10	A MARINA					M.		
-20 Hrthallau						Way My alun		
-40								
-50								
-60						_		_
							F	ilter Type
Center 2.4: #Res BW 5	10 kHz		#VBW 1.5 F	ИНz	S S1	pan 52 MHz weep 1 ms		Gaussian
Occupi	ed Bandwid	dth	Total I	Power	25.99 dBm			
	3	86.042 MH	łz					
Transmi	t Freq Error	-30621	Hz OBW	Power	99.00 %			
x dB Ba	ndwidth	36.31 N	lHz xdB		-6.00 dB			
MSG					STATUS			

Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/13	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)						
Channel No	Frequency	Measurement Level	Required Limit	Deput		
Channel No.	(MHz)	(MHz)	(MHz)	Result		
3	2422	35.63	≧0.5	Pass		
6	2437	35.80	≧0.5	Pass		
9	2452	35.79	≧0.5	Pass		

Agilent Spect	trum Analyzer - Occup	pied BW							
× RBW 510	50 Ω .00 kHz	A	C SENSE:INT Center Freq: 2.422	000000 GHz		10:49:23 Radio St	8 AM Mar 13, 2012 d: None		BW
	Input: R	#IFGain:Low	#Atten: 30 dB	Avginoid	.>10/10	Radio De	evice: BTS		Res BW
10 dB/div	Ref 30 dBm	1						Auto	Mar
20									Video BW
10			a.A. 1	a b i d				Auto	1.5000 MHz <u>Mar</u>
0	- Annon	LAW AND	1 no sould by proposed	፞ኯጞ፟፟፟፟፟፟ቚኯኯ፝ጚኯኯ፟ጚ	yana waar				
-10	للمعتل								
-20	مهم مر						W.		
-30 Mugan ^{n H}							had the house		
-40									
-60								-	
Center 24	22 GHz						an 52 MHz	F	Gaussian
#Res BW	510 kHz		#VBW 1.5	MHz		Sw	veep 1 ms		
Occup	ied Bandwid	dth	Total	Power	24.2	0 dBm			
	3	85.933 MH	lz						
Transm	it Freq Error	-26761	Hz OBW	Power	9	9.00 %			
x dB Ba	andwidth	35.63 M	Hz x dB		-6	.00 dB			
MSG					STATL	JS			



<u>Channel 6</u>

D Agilent Spectr	um Analyzer - (Occupied BW								_ @ ×
RBW 510.	50 Ω 00 kHz	a DE		SENSE:IN enter Freq: 2. rig: Free Run	437000000 GHz AvalHol	ALIGN AUTC	10:57: Radio S	50 AM Mar 13, 2012 Std: None		BW
	Inp	ut: RF #IFGa	in:Low #	Atten: 30 dB			Radio D	evice: BTS		Res BW
10 dB/div	Ref 30 d	Bm							Auto	510.00 KHZ <u>Man</u>
Log									-	Video BW
20									Auto	1.5000 MHz
10	min	WI WALKER PROPERTY	are the second	and and	unander verweinigen auf	ne washing	mound		Auto	Wan
10	الم ا						X			
-20	A.						1	N N		
-30 44000	511							Water an water		
-40										
-50										
-60						-				a
Contor 2.43								aan 62 MHz	F	Filter Type
#Res BW 5	10 kHz			#VBW 1	.5 MHz		S	weep 1 ms	1	Cudobiuli
Occupie	ed Band	width		Tot	al Power	26.0)9 dBm			
		35.97	76 MHz	2						
Transmit	t Freq Err	or	-28732 H	z OB	W Power	9	99.00 %			
x dB Bar	ndwidth		35.80 MH	z xd	в	-6	6.00 dB			
MSG						STAT	ับร			





Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/13	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 2)						
Channel No	Frequency	Measurement Level	Required Limit	Result		
onannor rto.	(MHz)	(MHz)	(MHz)	rtoodit		
3	2422	35.57	≧0.5	Pass		
6	2437	35.52	≧0.5	Pass		
9	2452	35.51	≧0.5	Pass		





<u>Channel 6</u>







Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

802.11 a				
Channel No.	Frequency	Measurement Level	Required Limit	Result
	(IMHZ)	(MHZ)		
149	5745	16.607	≧0.5	Pass
157	5785	16.589	≧0.5	Pass
165	5825	16.638	≧0.5	Pass











Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)							
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result			
149	5745	17.691	≧0.5	Pass			
157	5785	17.655	≧0.5	Pass			
165	5825	17.759	≧0.5	Pass			











Product	Dual-band Wireless-N Adapter				
Test Item	Occupied Bandwidth				
Test Mode	Mode 1: Transmit				
Date of Test	2012/03/14	Test Site	SR7		

IEEE 802.11n (20MHz)(ANT 1)							
Channel No.	Frequency	Measurement Level	Required Limit	Result			
	(MHz)	(MHz)	(MHz)				
149	5745	17.686	≧0.5	Pass			
157	5785	17.738	≧0.5	Pass			
165	5825	17.741	≧0.5	Pass			










Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 2)					
Channel No.	Frequency	Measurement Level	Required Limit	Result	
	(MHz)	(MHz)	(MHz)		
149	5745	17.687	≧0.5	Pass	
157	5785	17.675	≧0.5	Pass	
165	5825	17.697	≧0.5	Pass	











Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)					
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result	
151	5755	36.256	≧0.5	Pass	
159	5795	36.166	≧0.5	Pass	







Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)					
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result	
151	5755	36.137	≧0.5	Pass	
159	5795	36.179	≧0.5	Pass	







Product	Dual-band Wireless-N Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 2)					
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result	
151	5755	36.235	≧0.5	Pass	
159	5795	36.235	≧0.5	Pass	





