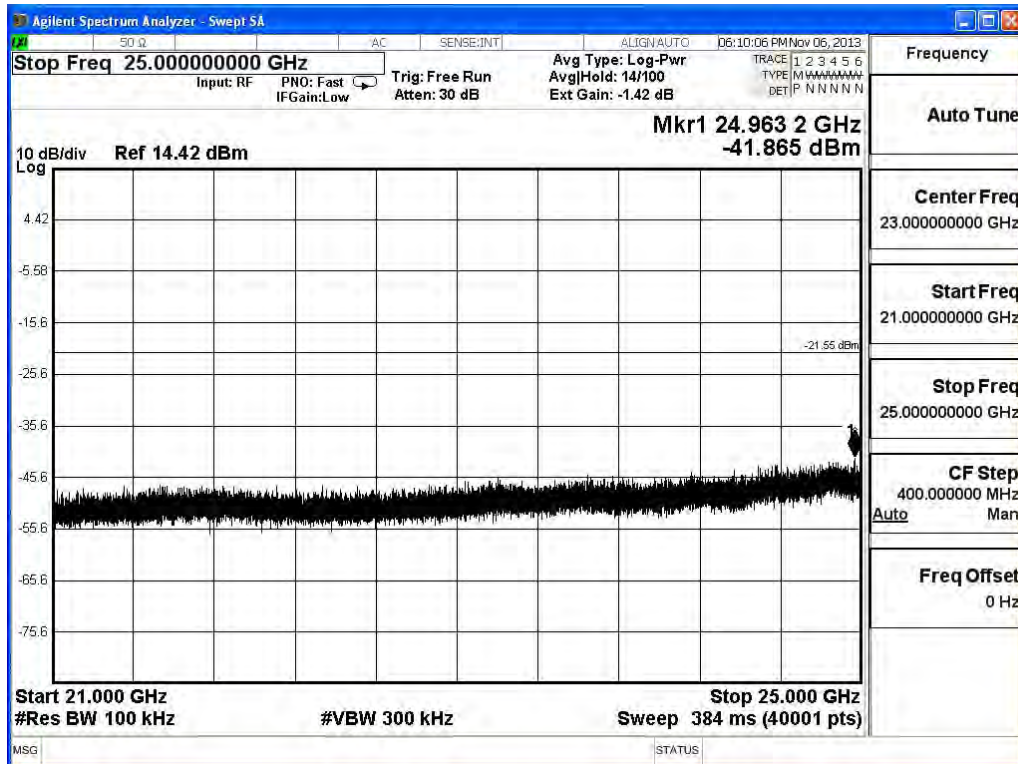
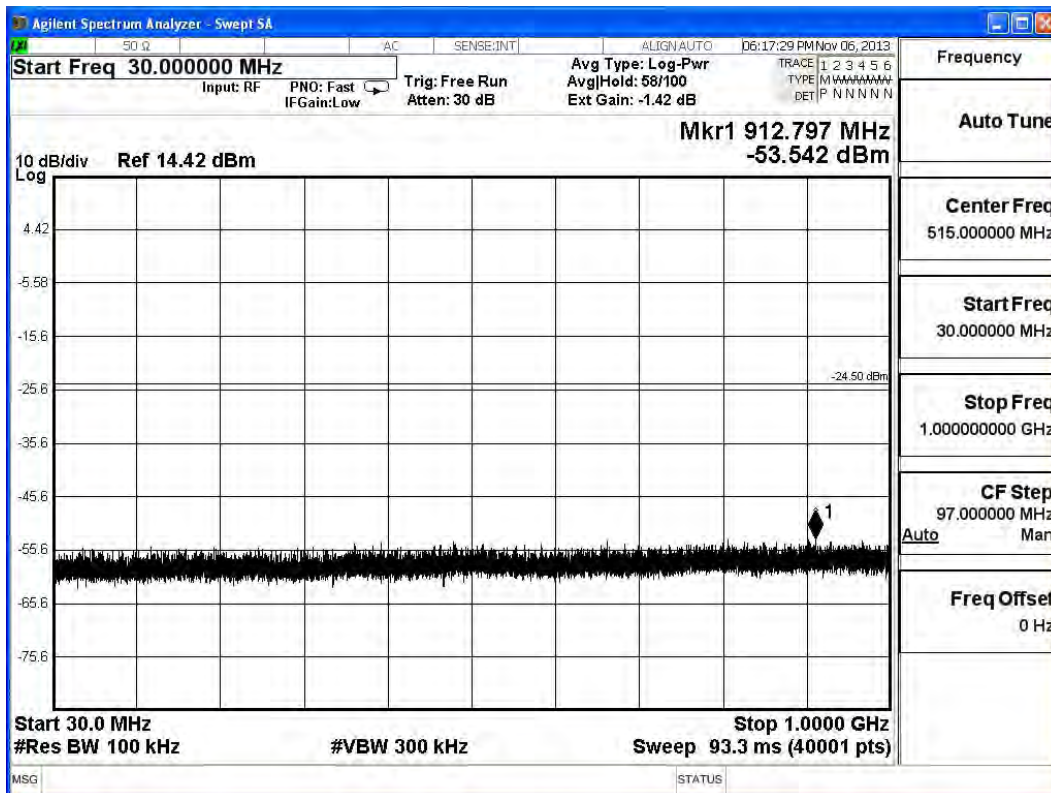


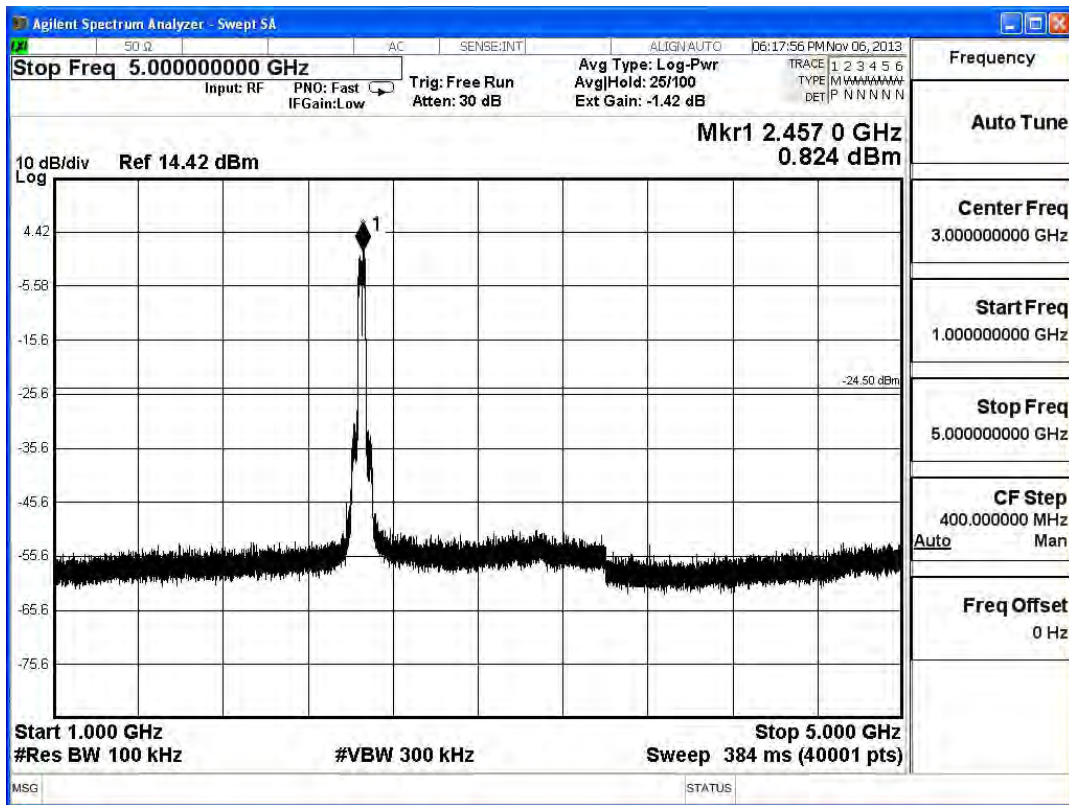
2437MHz (21GHz-25GHz)-802.11n(40MHz) (Ant 1)



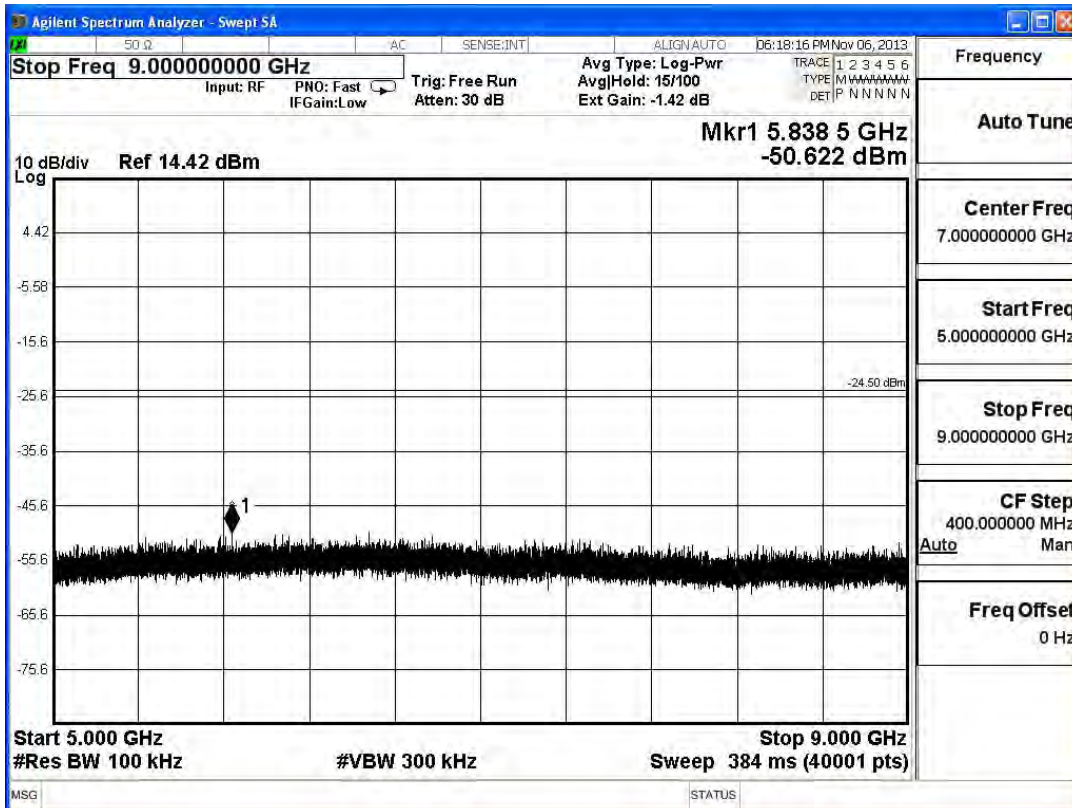
2452MHz (30MHz-1GHz) -802.11n(40MHz) (Ant 1)



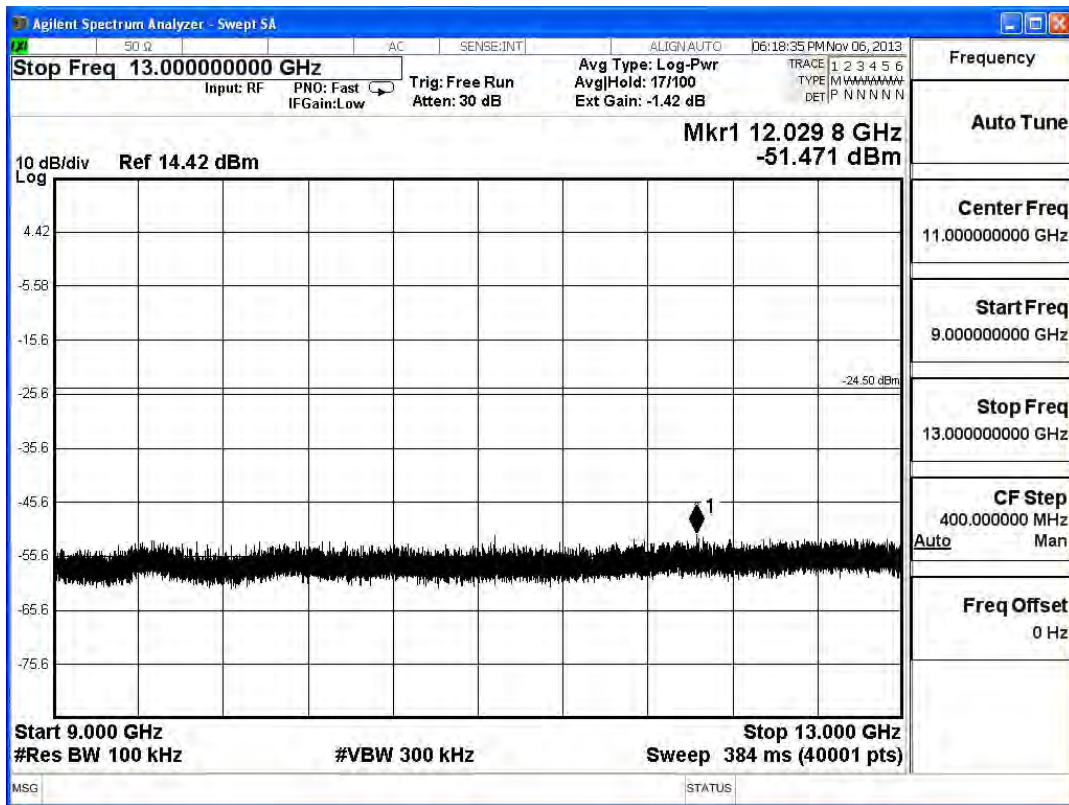
2452MHz (1GHz-5GHz) -802.11n(40MHz) (Ant 1)



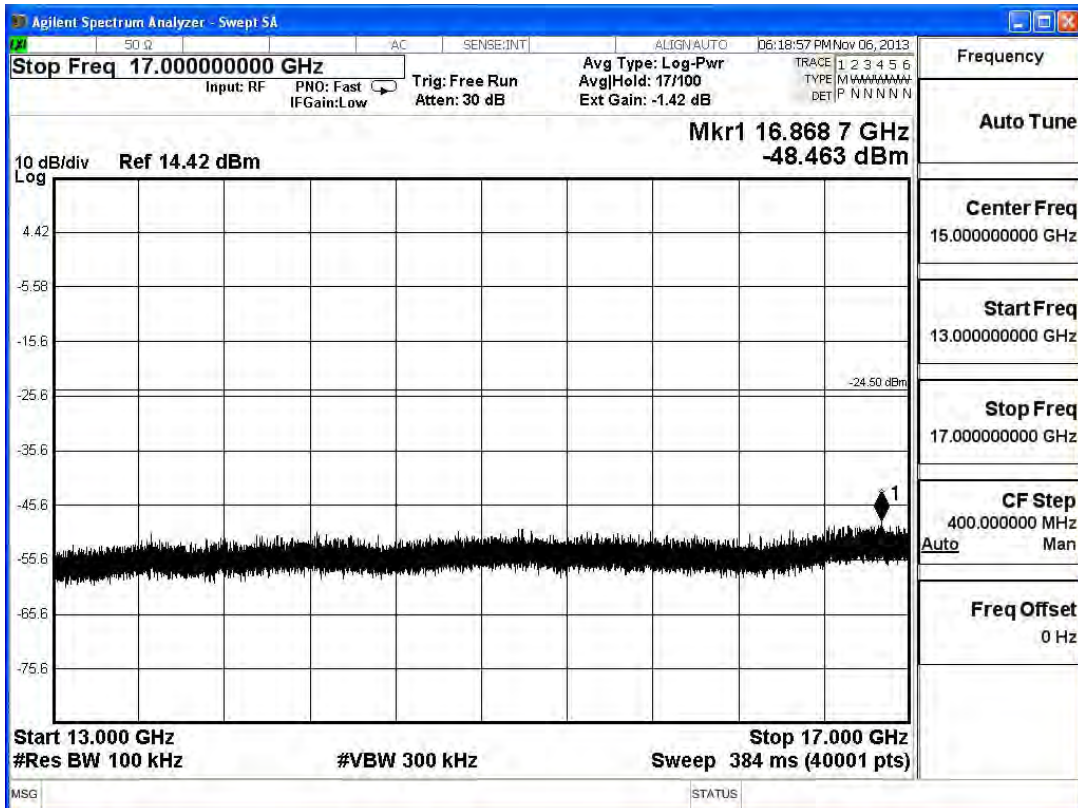
2452MHz (5GHz-9GHz) -802.11n(40MHz) (Ant 1)



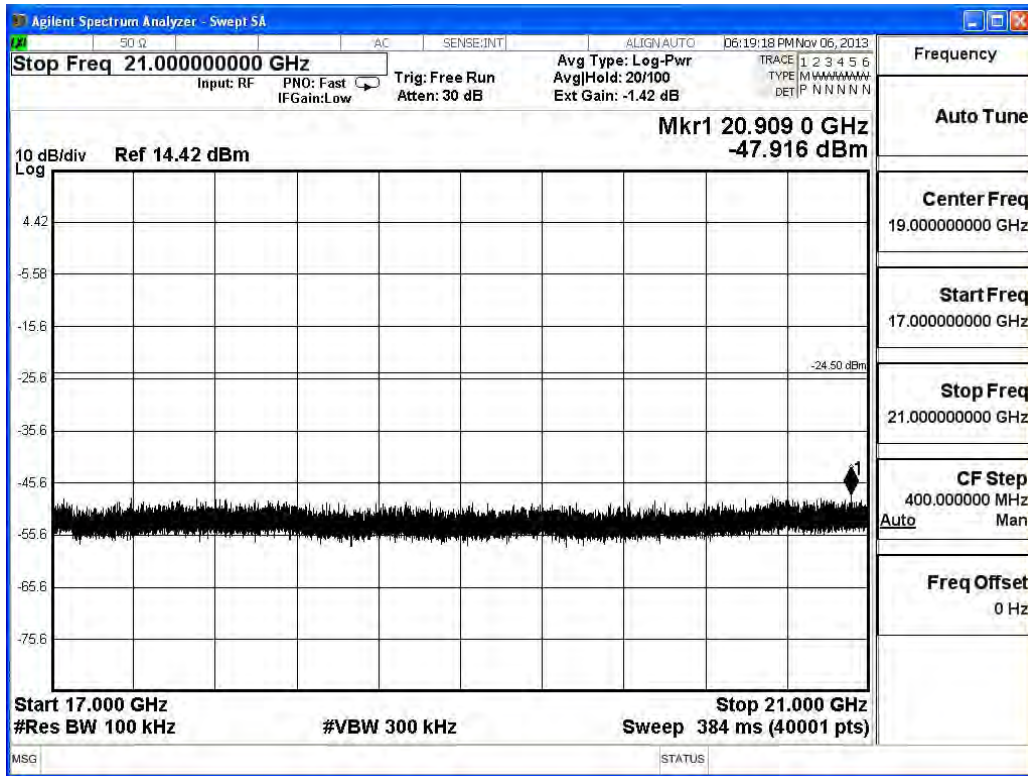
2452MHz (9GHz-13GHz) -802.11n(40MHz) (Ant 1)



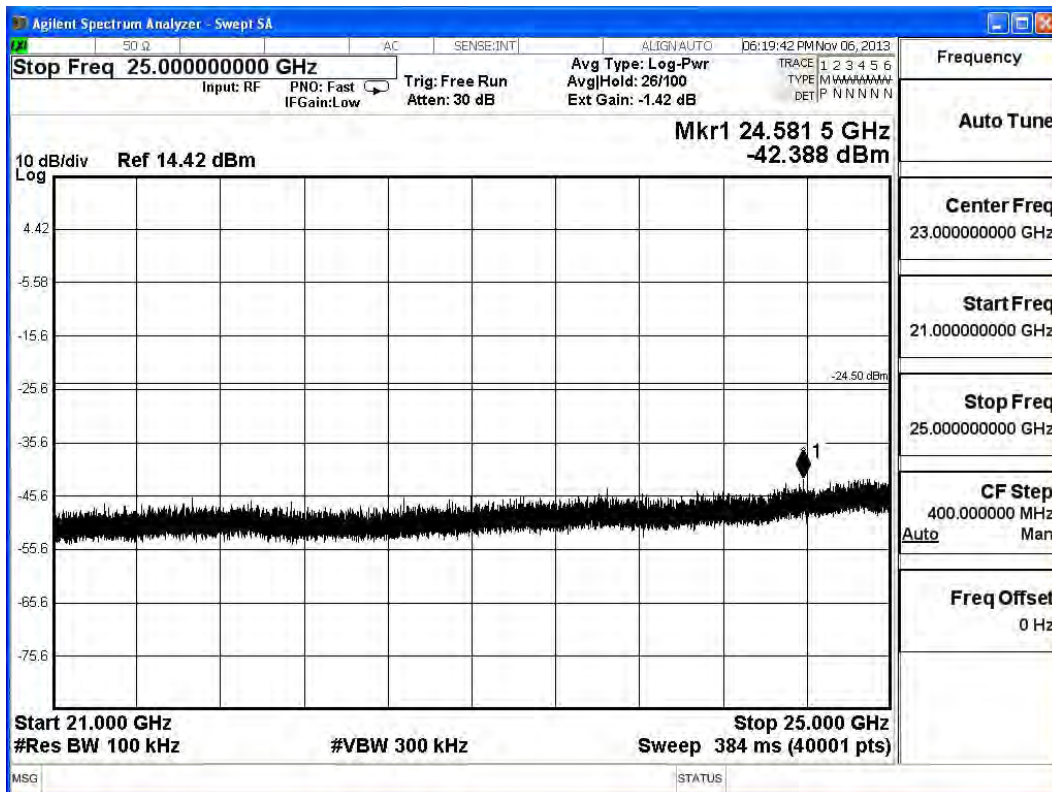
2452MHz (13GHz-17GHz) -802.11n(40MHz) (Ant 1)



2452MHz (17GHz-21GHz) -802.11n(40MHz) (Ant 1)



2452MHz (21GHz-25GHz) -802.11n(40MHz) (Ant 1)



6. Radiated Emission Band Edge

6.1. Test Equipment

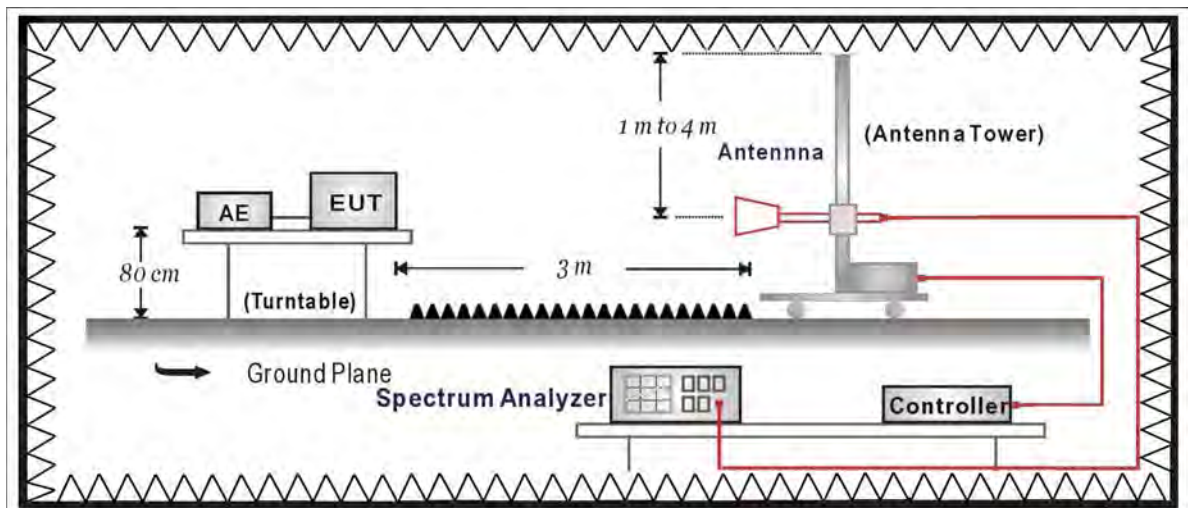
The following test equipments are used during the test:

Radiated Emission Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2014/02/17
Spectrum Analyzer	Agilent	E4440A	MY46187335	2014/01/27
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2014/02/21

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 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: 2012

6.6. Uncertainty

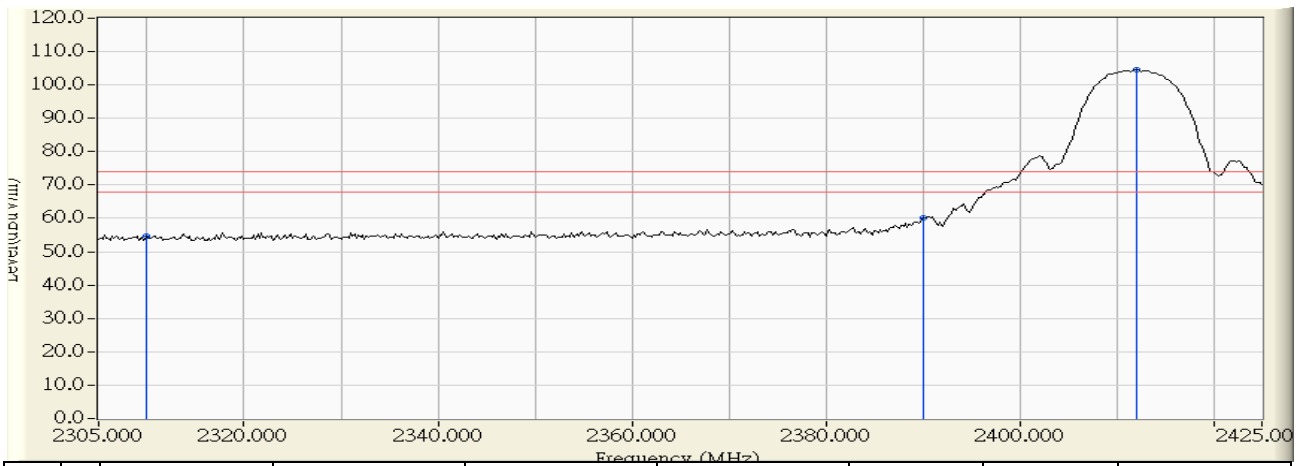
The measurement uncertainty

± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2013/09/10 - 10:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11b 2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.578	54.637	-19.363	74.000	PEAK
2	2390.000	30.888	29.184	60.072	-13.928	74.000	PEAK
3	* 2412.000	31.116	73.369	104.485	30.485	74.000	PEAK

Note:

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 : 2013/09/10 - 10:38
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11b 2412MHz

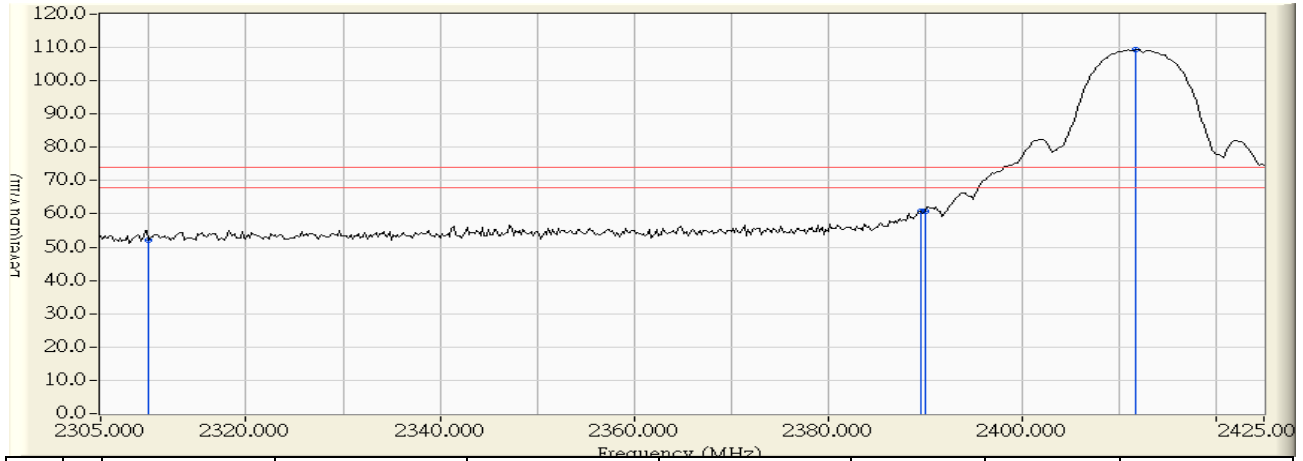


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.230	42.289	-11.711	54.000	AVERAGE
2	2390.000	30.888	18.597	49.485	-4.515	54.000	AVERAGE
3	* 2411.200	31.108	69.634	100.742	46.742	54.000	AVERAGE

Note:

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 : 2013/09/10 - 10:41
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11b 2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	22.026	52.085	-21.915	74.000	PEAK
2	2389.600	30.884	30.031	60.915	-13.085	74.000	PEAK
3	2390.000	30.888	30.048	60.936	-13.064	74.000	PEAK
4	* 2411.800	31.115	78.332	109.446	35.446	74.000	PEAK

Note:

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 : 2013/09/10 - 10:45
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11b 2412MHz

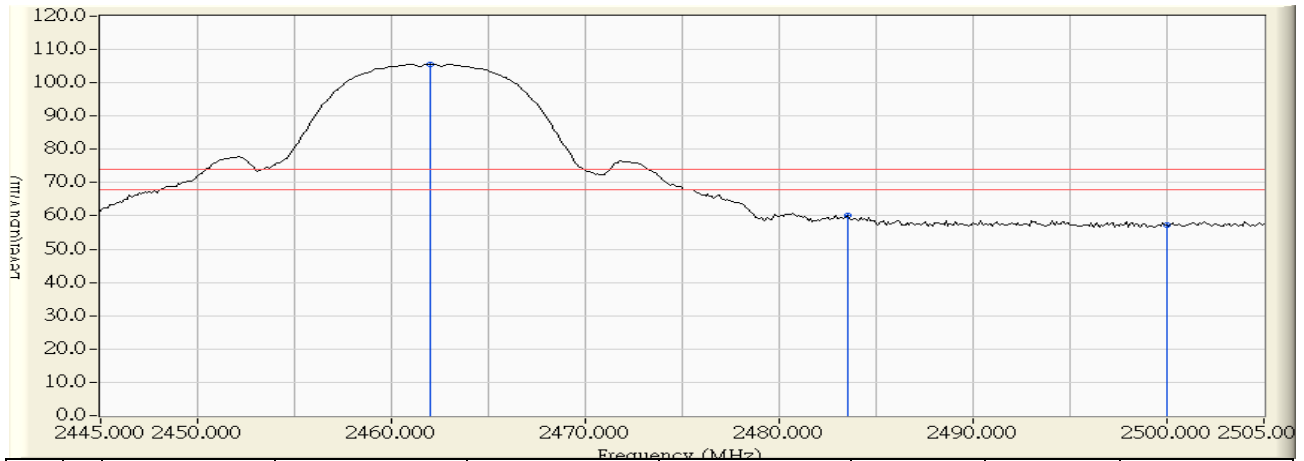


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.511	42.570	-11.430	54.000	AVERAGE
2	2390.000	30.888	22.038	52.926	-1.074	54.000	AVERAGE
3	* 2412.800	31.125	73.837	104.962	50.962	54.000	AVERAGE

Note:

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 : 2013/09/10 – 10:49
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11b 2462MHz

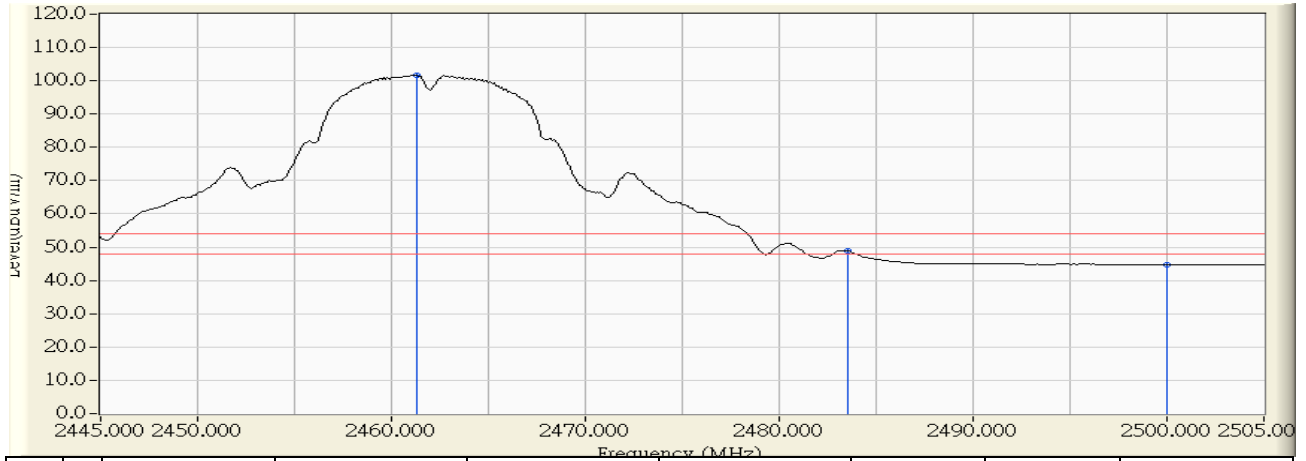


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.000	31.635	74.005	105.640	31.640	74.000	PEAK
2		2483.500	31.858	28.174	60.032	-13.968	74.000	PEAK
3		2500.000	31.988	25.338	57.327	-16.673	74.000	PEAK

Note:

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 : 2013/09/10 – 10:53
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11b 2462MHz

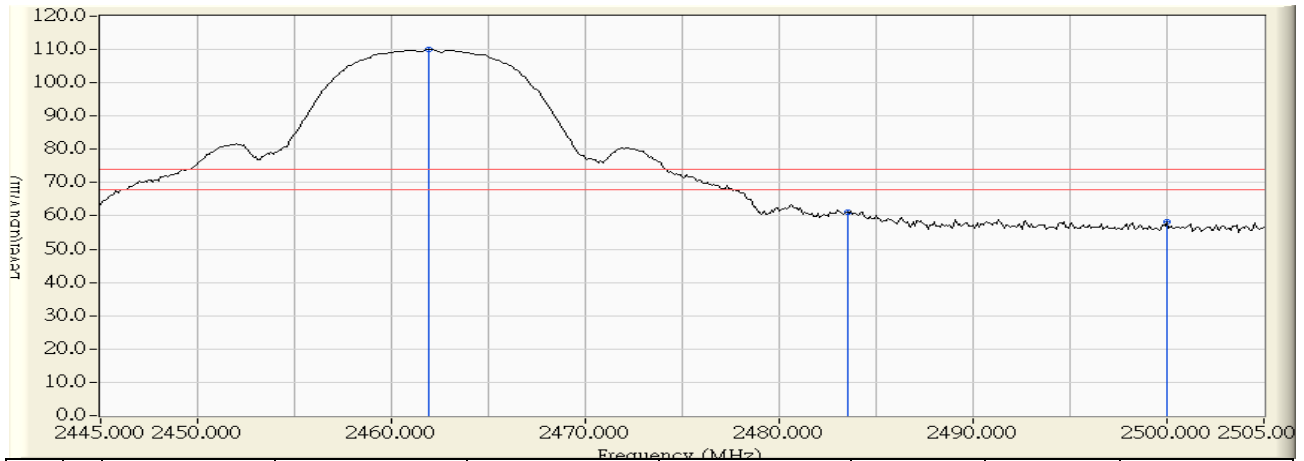


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.300	31.628	70.194	101.822	47.822	54.000	AVERAGE
2		2483.500	31.858	16.976	48.834	-5.166	54.000	AVERAGE
3		2500.000	31.988	12.747	44.736	-9.264	54.000	AVERAGE

Note:

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 : 2013/09/10 – 10:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11b 2462MHz

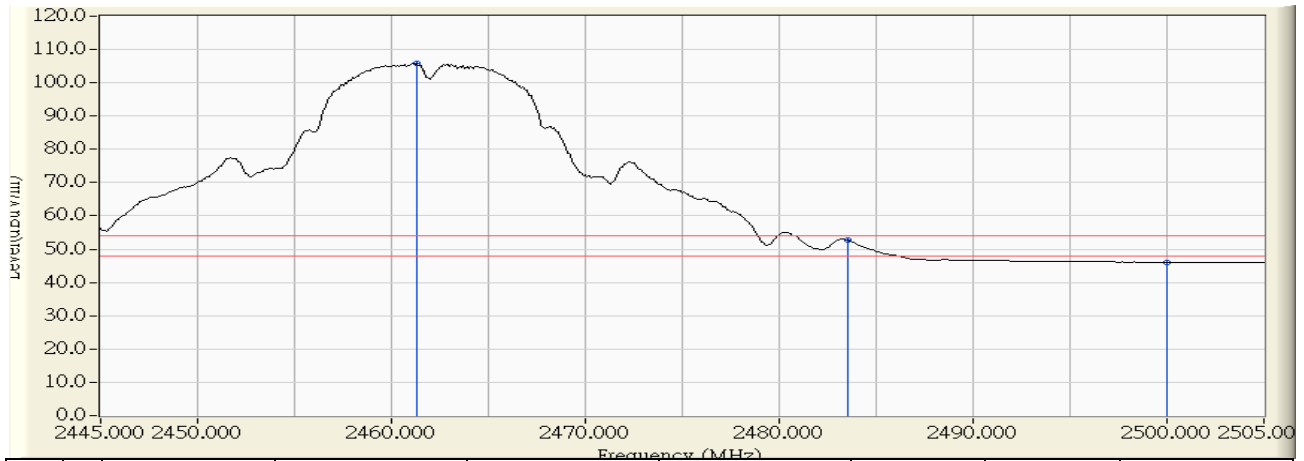


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.900	31.633	78.322	109.956	35.956	74.000	PEAK
2		2483.500	31.858	29.132	60.990	-13.010	74.000	PEAK
3		2500.000	31.988	26.081	58.070	-15.930	74.000	PEAK

Note:

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 : 2013/09/10 - 11:03
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11b 2462MHz

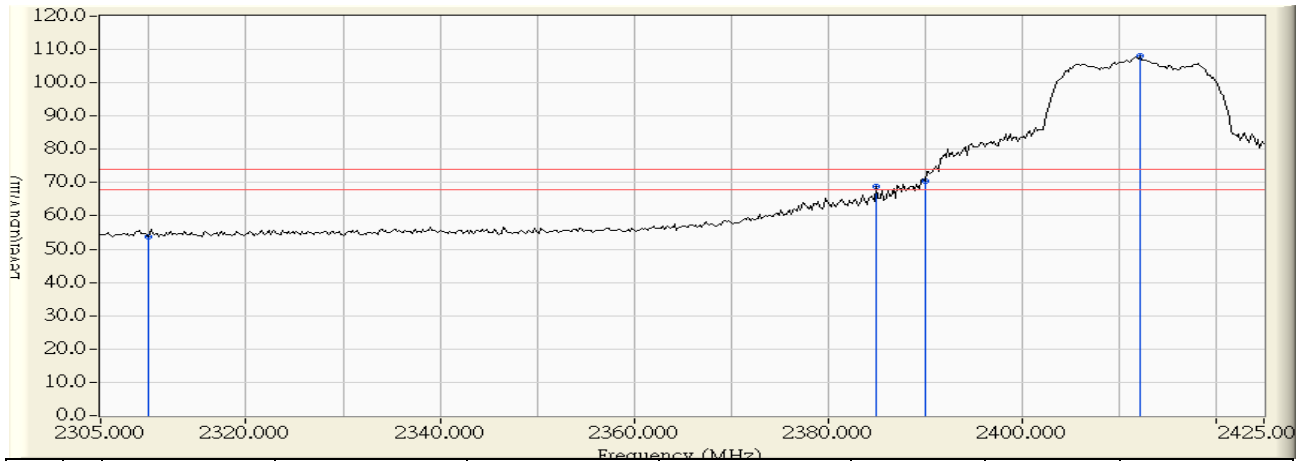


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.300	31.628	74.244	105.872	51.872	54.000	AVERAGE
2		2483.500	31.858	21.014	52.872	-1.128	54.000	AVERAGE
3		2500.000	31.988	14.052	46.041	-7.959	54.000	AVERAGE

Note:

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 : 2013/09/10 - 11:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11g 2412MHz

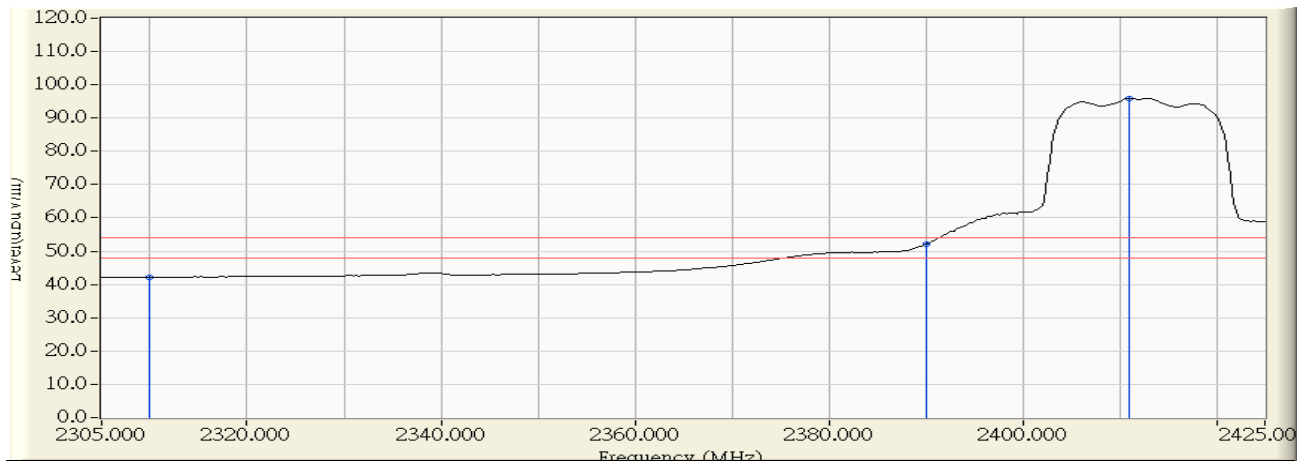


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	23.730	53.789	-20.211	74.000	PEAK
2	2385.000	30.836	38.114	68.950	-5.050	74.000	PEAK
3	2390.000	30.888	39.550	70.438	-3.562	74.000	PEAK
4	* 2412.200	31.118	76.873	107.992	33.992	74.000	PEAK

Note:

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 : 2013/09/10 - 11:12
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11g 2412MHz

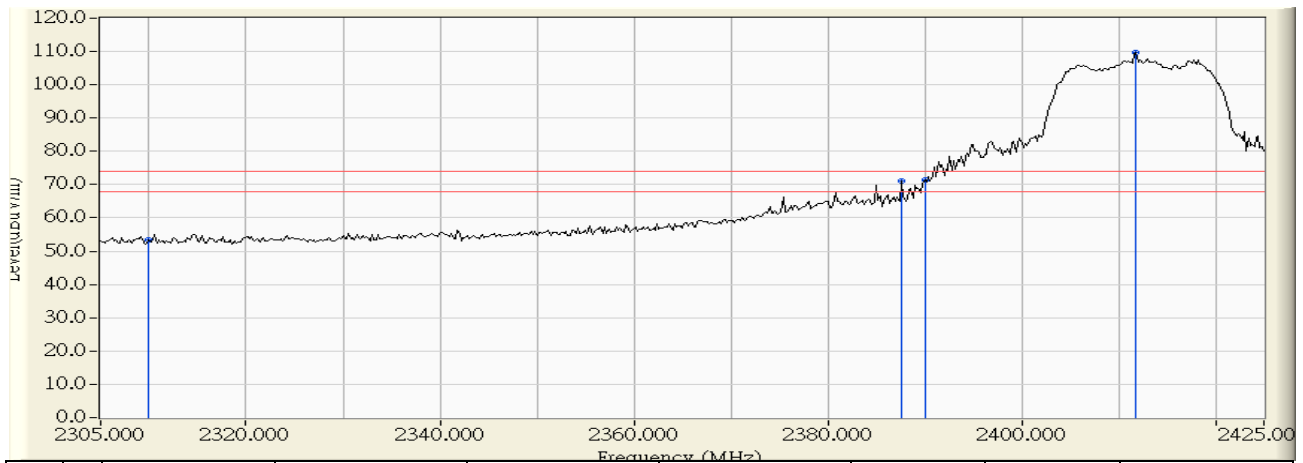


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.125	42.184	-11.816	54.000	AVERAGE
2	2390.000	30.888	21.187	52.075	-1.925	54.000	AVERAGE
3	* 2411.000	31.106	64.905	96.011	42.011	54.000	AVERAGE

Note:

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 : 2013/09/10 - 11:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11g 2412MHz

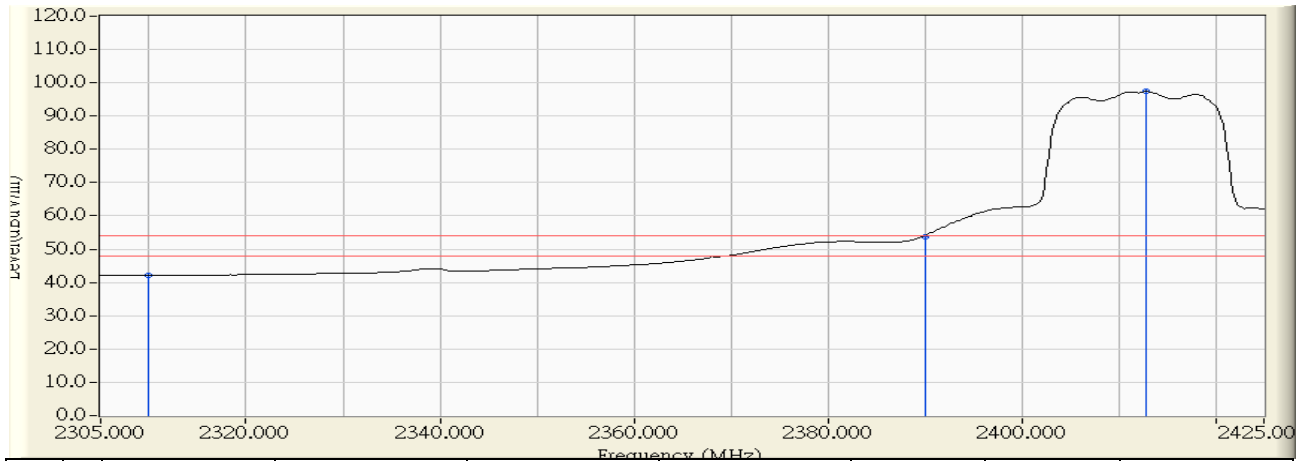


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	23.285	53.344	-20.656	74.000	PEAK
2	2387.600	30.864	40.150	71.013	-2.987	74.000	PEAK
3	2390.000	30.888	40.382	71.270	-2.730	74.000	PEAK
4	* 2411.800	31.115	78.737	109.851	35.851	74.000	PEAK

Note:

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 : 2013/09/10 - 11:22
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11g 2412MHz

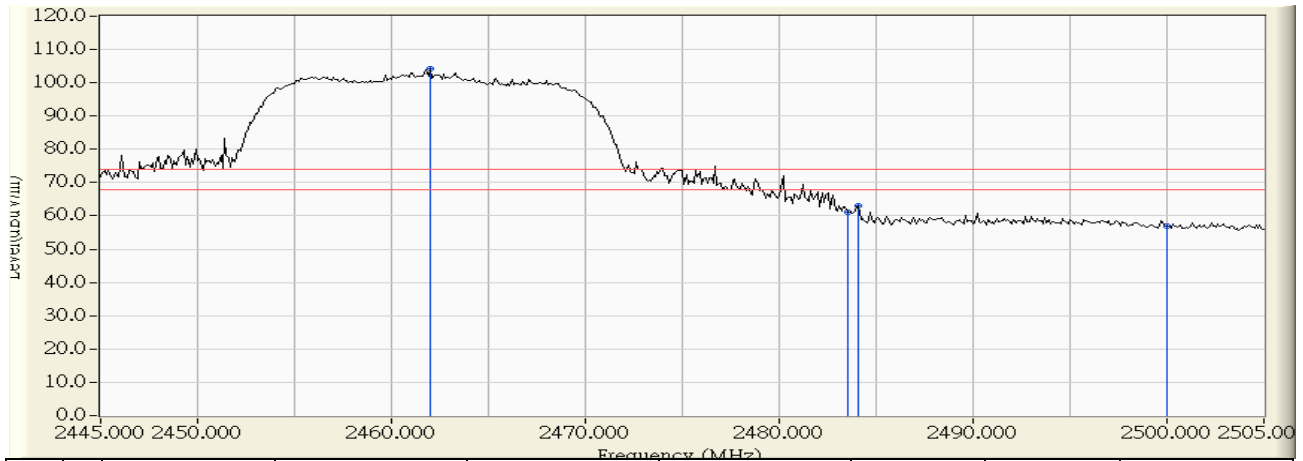


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.097	42.156	-11.844	54.000	AVERAGE
2	2390.000	30.888	22.885	53.773	-0.227	54.000	AVERAGE
3	* 2412.800	31.125	66.275	97.400	43.400	54.000	AVERAGE

Note:

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 : 2013/09/10 - 11:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11g 2462MHz

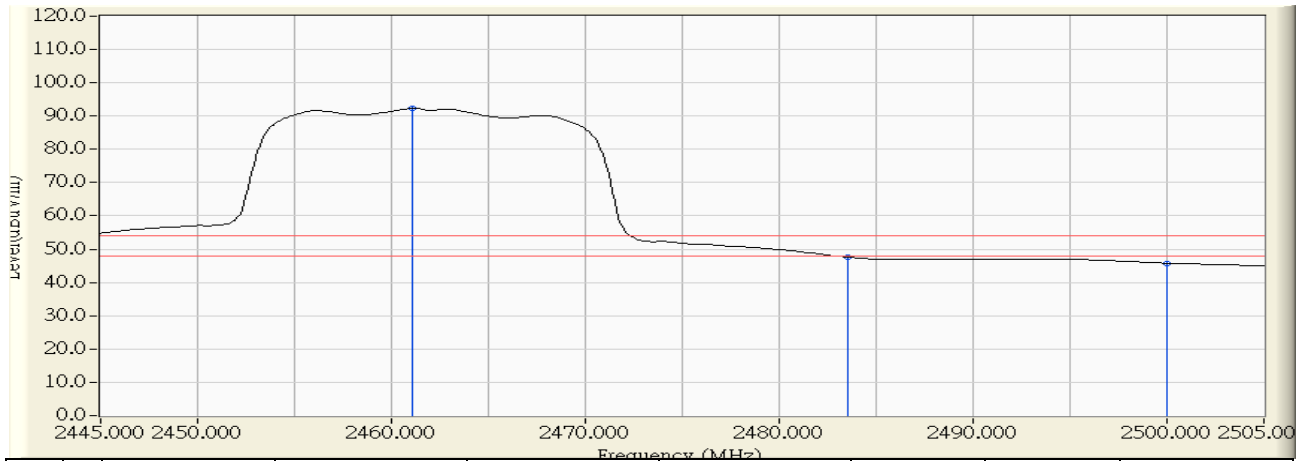


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.000	31.635	72.482	104.117	30.117	74.000	PEAK
2		2483.500	31.858	29.290	61.148	-12.852	74.000	PEAK
3		2484.100	31.864	31.090	62.954	-11.046	74.000	PEAK
4		2500.000	31.988	24.922	56.911	-17.089	74.000	PEAK

Note:

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 : 2013/09/10 - 11:31
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11g 2462MHz

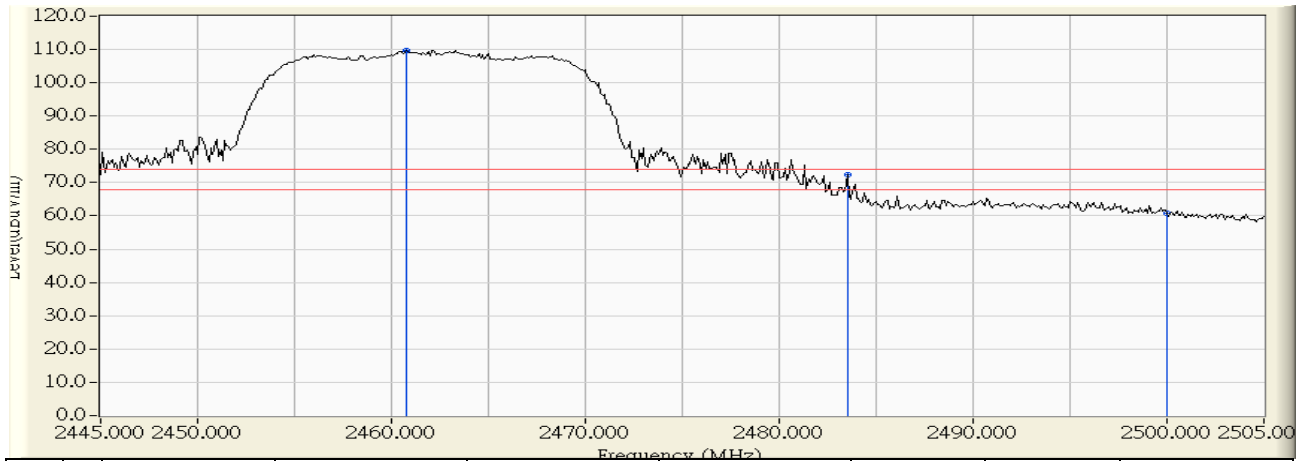


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.100	31.626	60.665	92.291	38.291	54.000	AVERAGE
2		2483.500	31.858	15.733	47.591	-6.409	54.000	AVERAGE
3		2500.000	31.988	13.819	45.808	-8.192	54.000	AVERAGE

Note:

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 : 2013/09/10 - 11:36
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11g 2462MHz

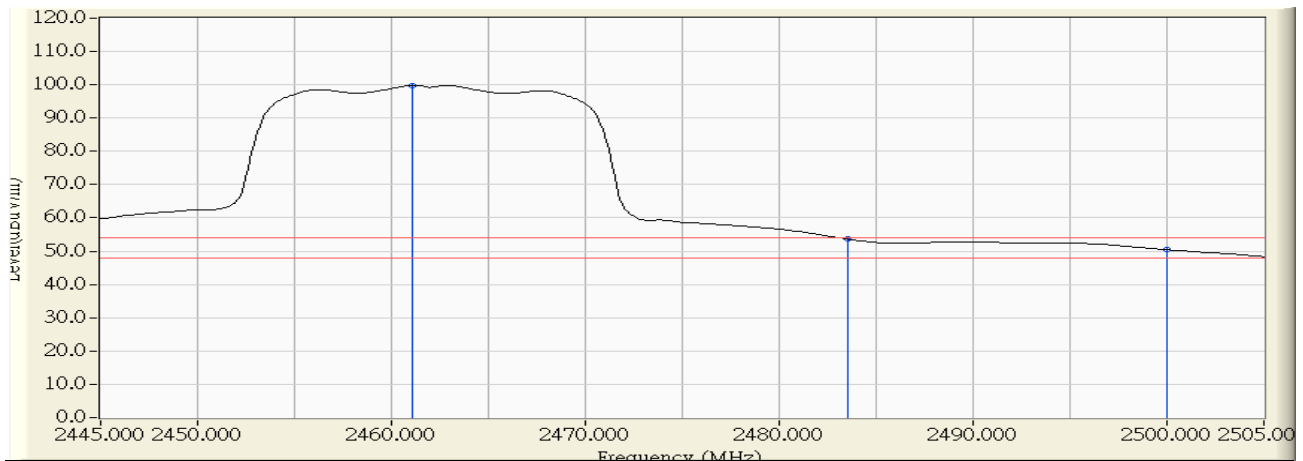


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.800	31.622	78.142	109.765	35.765	74.000	PEAK
2		2483.500	31.858	40.388	72.246	-1.754	74.000	PEAK
3		2500.000	31.988	28.698	60.687	-13.313	74.000	PEAK

Note:

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 : 2013/09/10 - 11:41
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11g 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.100	31.626	68.245	99.871	45.871	54.000	AVERAGE
2		2483.500	31.858	21.751	53.609	-0.391	54.000	AVERAGE
3		2500.000	31.988	18.452	50.441	-3.559	54.000	AVERAGE

Note:

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 : 2013/09/10 - 09:24
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n20MHz 2412MHz

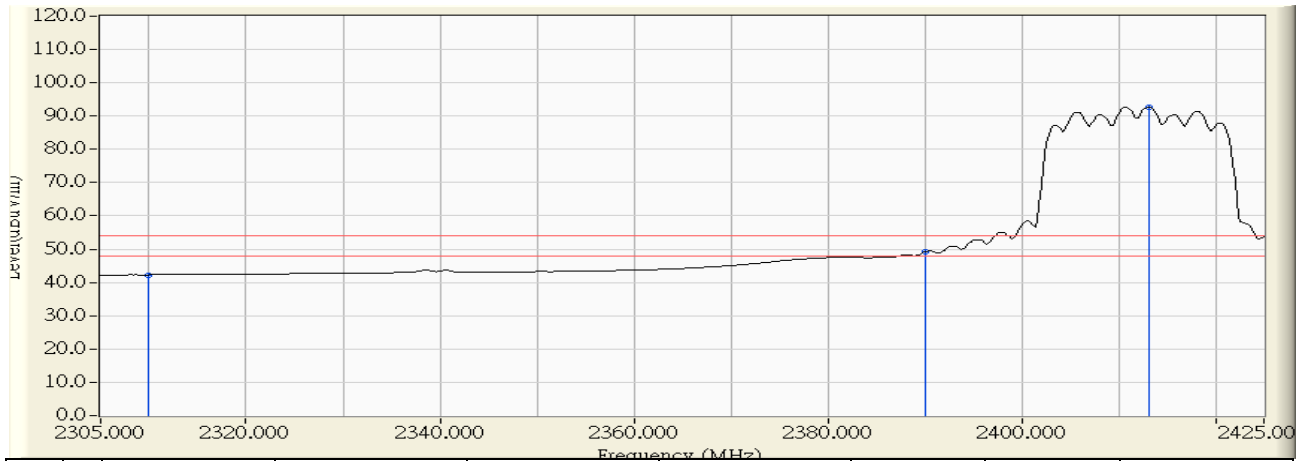


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	23.541	53.600	-20.400	74.000	PEAK
2	2388.200	30.869	38.370	69.240	-4.760	74.000	PEAK
3	2390.000	30.888	34.862	65.750	-8.250	74.000	PEAK
4	* 2412.600	31.123	73.135	104.258	30.258	74.000	PEAK

Note:

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 : 2013/09/10 - 09:29
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n20MHz 2412MHz

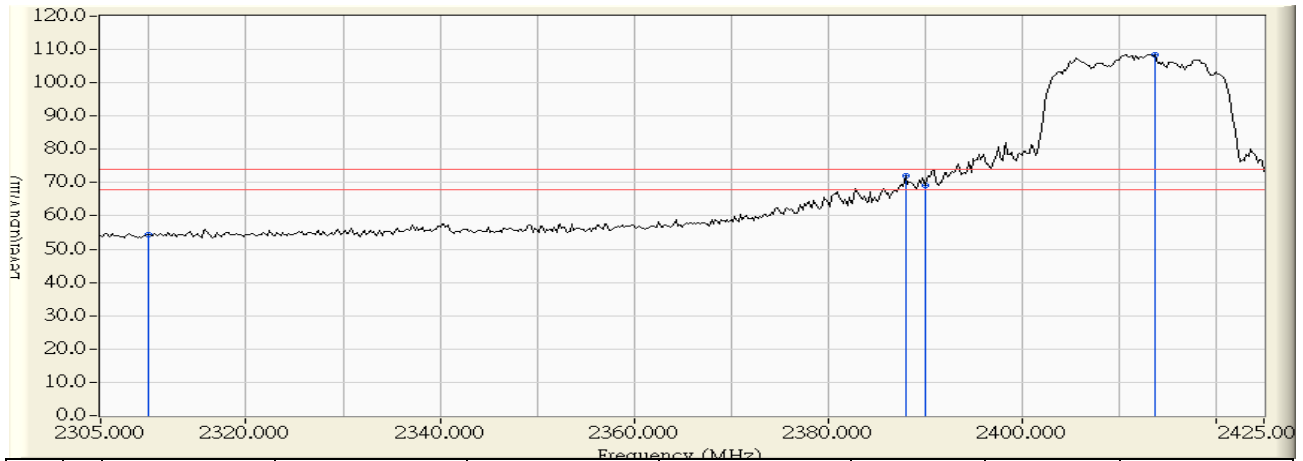


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.234	42.293	-11.707	54.000	AVERAGE
2	2390.000	30.888	18.334	49.222	-4.778	54.000	AVERAGE
3	* 2413.200	31.128	61.585	92.714	38.714	54.000	AVERAGE

Note:

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 : 2013/09/10 - 09:33
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n20MHz 2412MHz

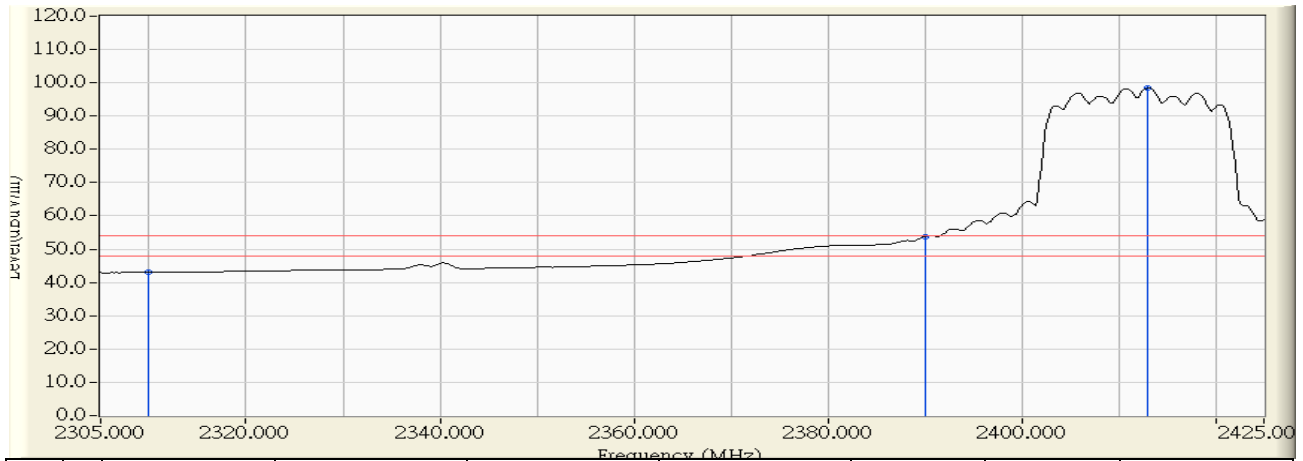


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.288	54.347	-19.653	74.000	PEAK
2	2388.000	30.868	41.308	72.176	-1.824	74.000	PEAK
3	2390.000	30.888	38.214	69.102	-4.898	74.000	PEAK
4	* 2413.800	31.135	77.272	108.407	34.407	74.000	PEAK

Note:

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 : 2013/09/10 - 09:36
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n20MHz 2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.990	43.049	-10.951	54.000	AVERAGE
2	2390.000	30.888	22.936	53.824	-0.176	54.000	AVERAGE
3	* 2413.000	31.127	67.205	98.332	44.332	54.000	AVERAGE

Note:

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 : 2013/09/10 – 09:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n20MHz 2462MHz

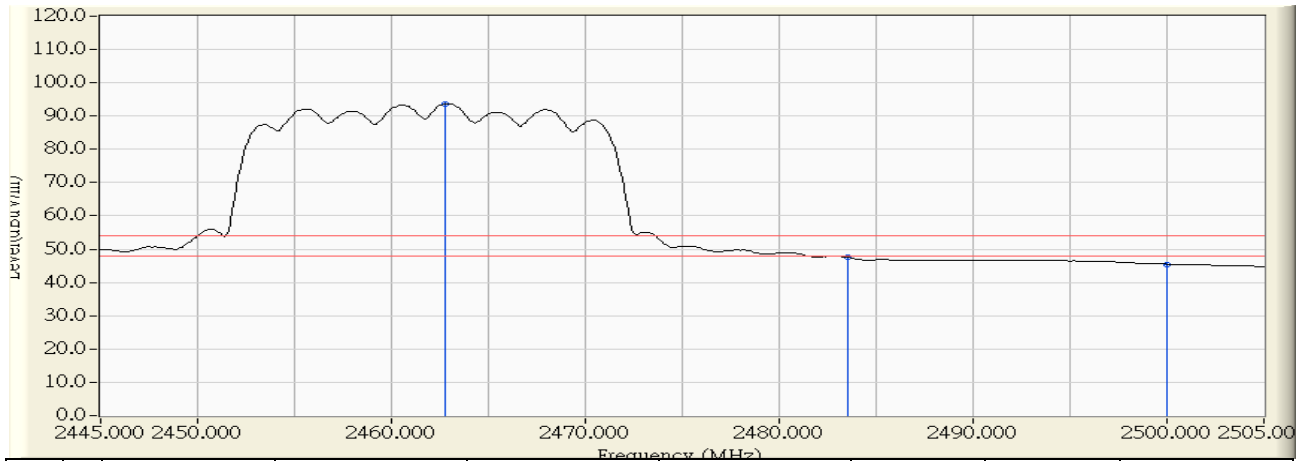


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.800	31.644	73.456	105.099	31.099	74.000	PEAK
2		2483.500	31.858	33.747	65.605	-8.395	74.000	PEAK
3		2500.000	31.988	25.821	57.810	-16.190	74.000	PEAK

Note:

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 : 2013/09/10 – 09:47
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n20MHz 2462MHz

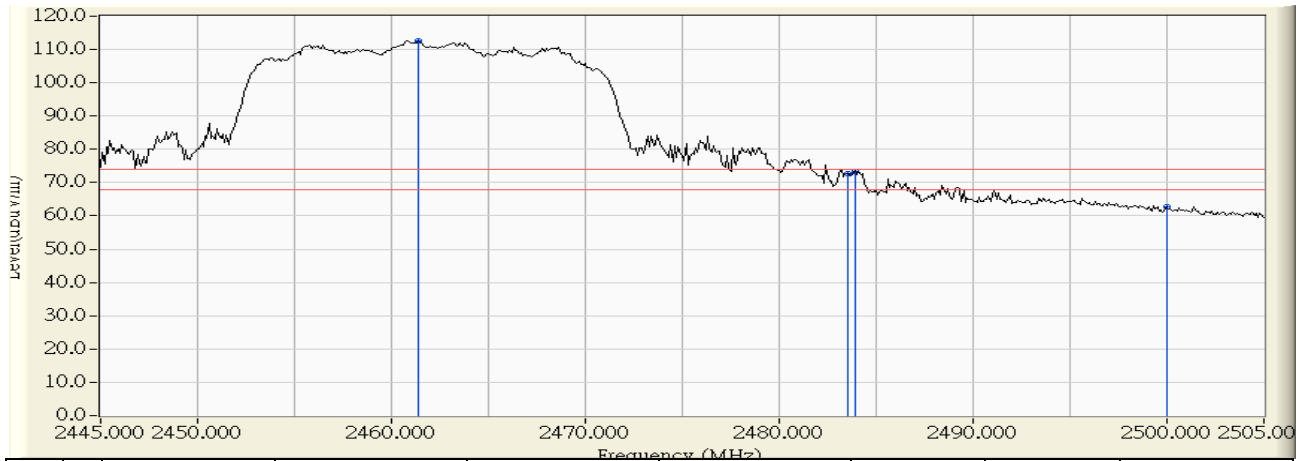


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.800	31.644	62.064	93.707	39.707	54.000	AVERAGE
2		2483.500	31.858	15.611	47.469	-6.531	54.000	AVERAGE
3		2500.000	31.988	13.518	45.507	-8.493	54.000	AVERAGE

Note:

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 : 2013/09/10 – 09:51
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n20MHz 2462MHz

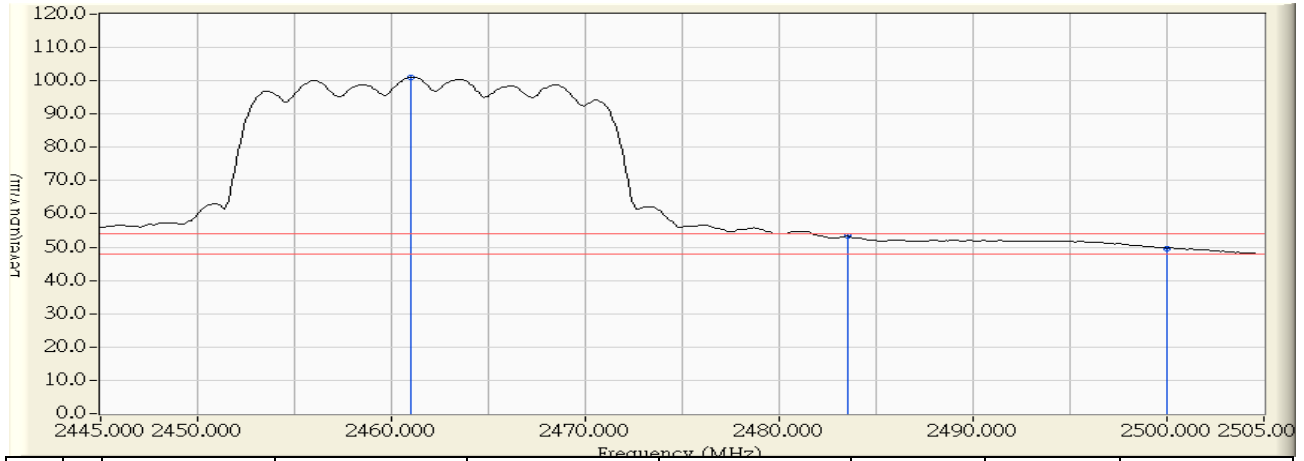


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.400	31.629	81.068	112.697	38.697	74.000	PEAK
2		2483.500	31.858	40.998	72.856	-1.144	74.000	PEAK
3		2483.900	31.862	41.444	73.306	-0.694	74.000	PEAK
4		2500.000	31.988	30.595	62.584	-11.416	74.000	PEAK

Note:

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 : 2013/09/10 - 09:56
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n20Mhz 2462MHz

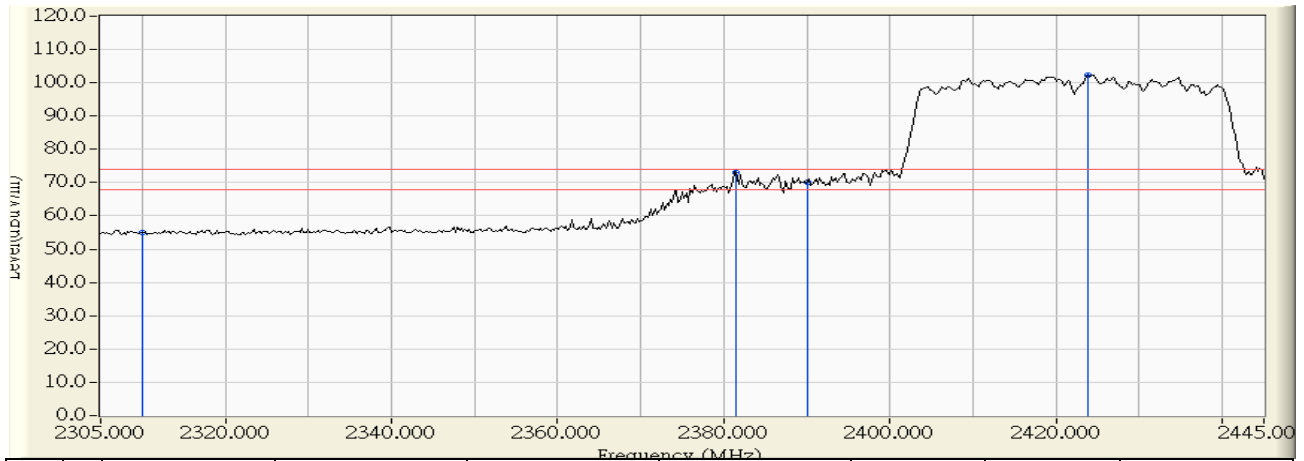


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.000	31.624	69.448	101.073	47.073	54.000	AVERAGE
2		2483.500	31.858	21.387	53.245	-0.755	54.000	AVERAGE
3		2500.000	31.988	17.713	49.702	-4.298	54.000	AVERAGE

Note:

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 : 2013/09/10 - 10:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n40MHz 2422MHz

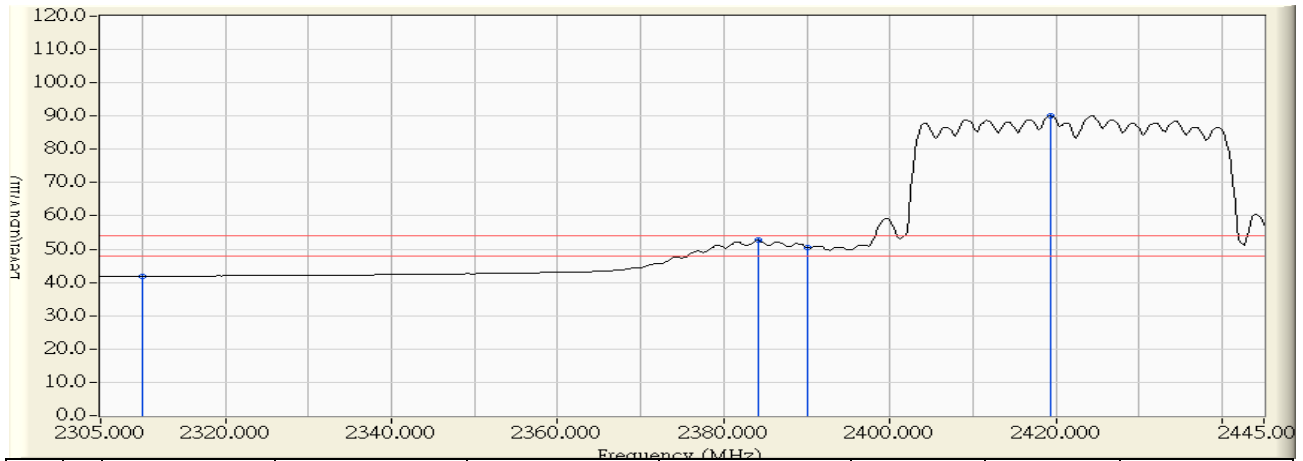


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.828	54.887	-19.113	74.000	PEAK
2	2381.533	30.800	42.077	72.878	-1.122	74.000	PEAK
3	2390.000	30.888	39.389	70.277	-3.723	74.000	PEAK
4	* 2423.767	31.239	71.161	102.400	28.400	74.000	PEAK

Note:

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 : 2013/09/10 - 10:06
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n40MHz 2422MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	11.682	41.741	-12.259	54.000	AVERAGE
2	2384.100	30.827	21.786	52.613	-1.387	54.000	AVERAGE
3	2390.000	30.888	19.671	50.559	-3.441	54.000	AVERAGE
4	* 2419.333	31.193	58.840	90.033	36.033	54.000	AVERAGE

Note:

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 : 2013/09/10 - 10:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n40MHz 2422MHz

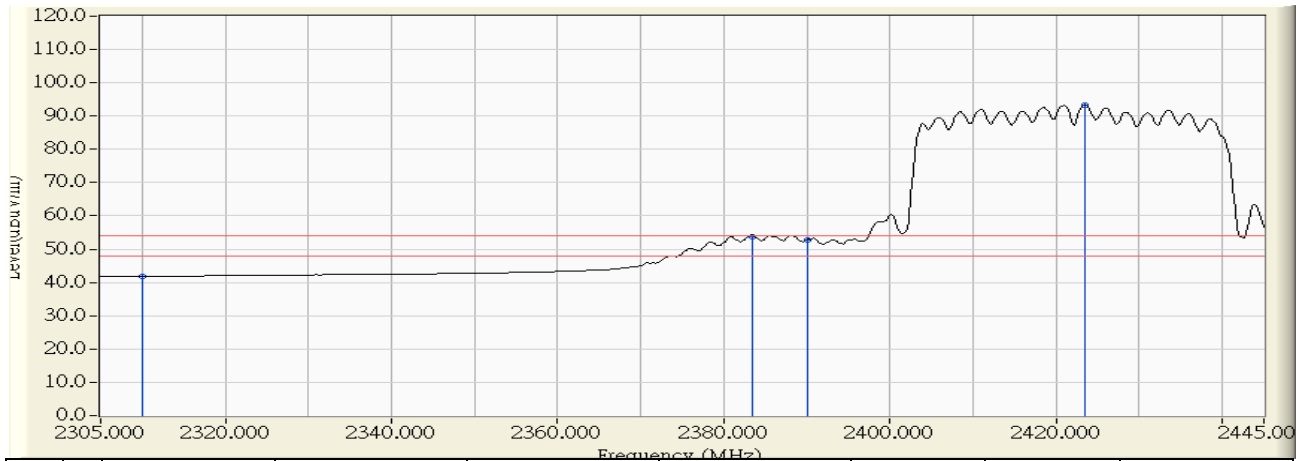


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	23.584	53.643	-20.357	74.000	PEAK
2	2382.933	30.815	42.942	73.757	-0.243	74.000	PEAK
3	2390.000	30.888	42.166	73.054	-0.946	74.000	PEAK
4	* 2423.300	31.233	75.624	106.858	32.858	74.000	PEAK

Note:

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 : 2013/09/10 - 10:16
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n40MHz 2422MHz

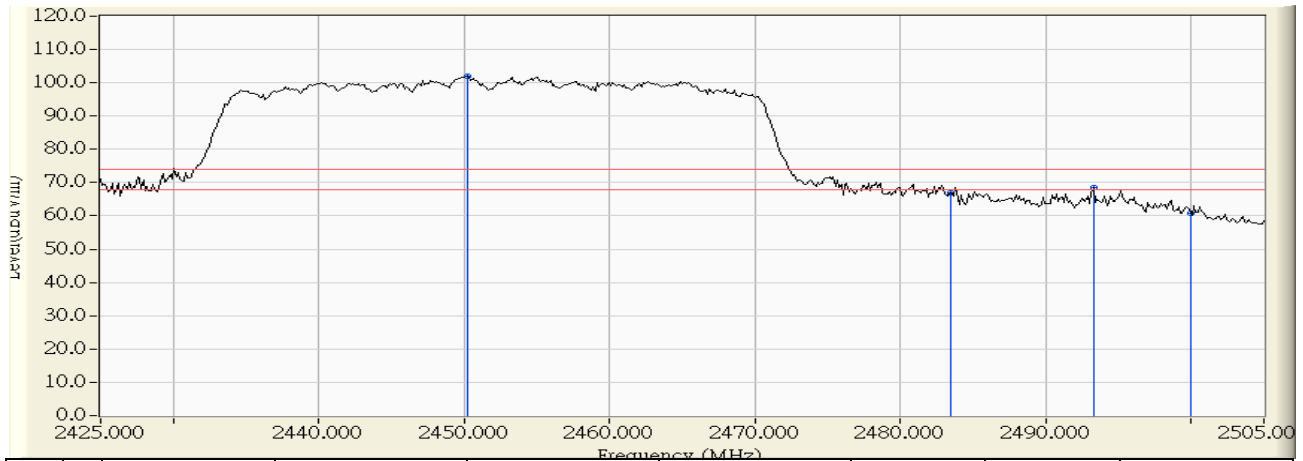


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	11.738	41.797	-12.203	54.000	AVERAGE
2	2383.400	30.820	22.980	53.800	-0.200	54.000	AVERAGE
3	2390.000	30.888	21.889	52.777	-1.223	54.000	AVERAGE
4	* 2423.533	31.237	62.033	93.269	39.269	54.000	AVERAGE

Note:

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 : 2013/09/10 - 10:21
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n40MHz 2452MHz

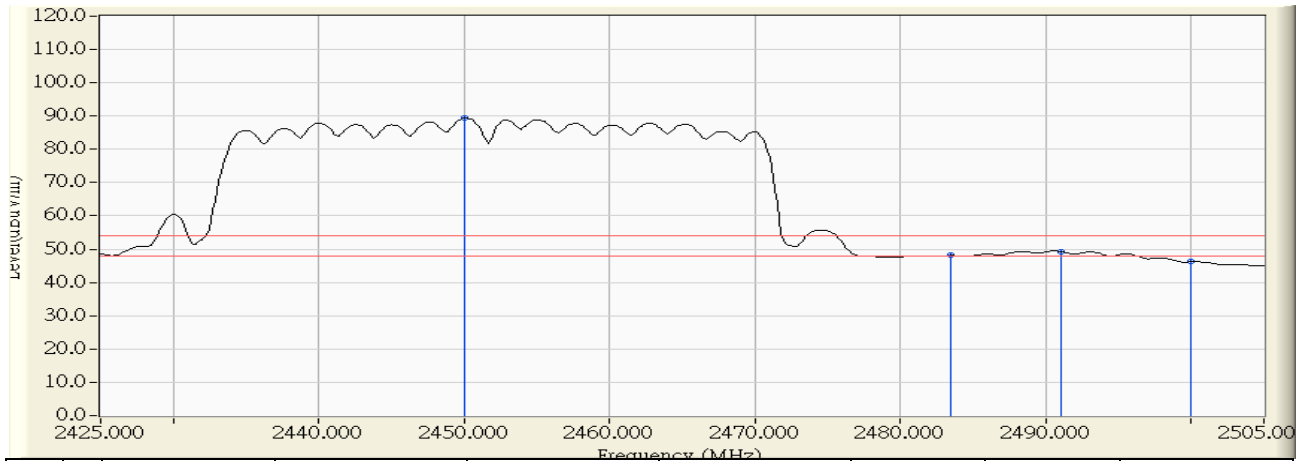


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2450.200	31.513	70.485	101.998	27.998	74.000	PEAK
2		2483.500	31.858	35.010	66.868	-7.132	74.000	PEAK
3		2493.267	31.959	36.468	68.427	-5.573	74.000	PEAK
4		2500.000	31.988	28.883	60.872	-13.128	74.000	PEAK

Note:

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 : 2013/09/10 - 10:27
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n40MHz 2452MHz

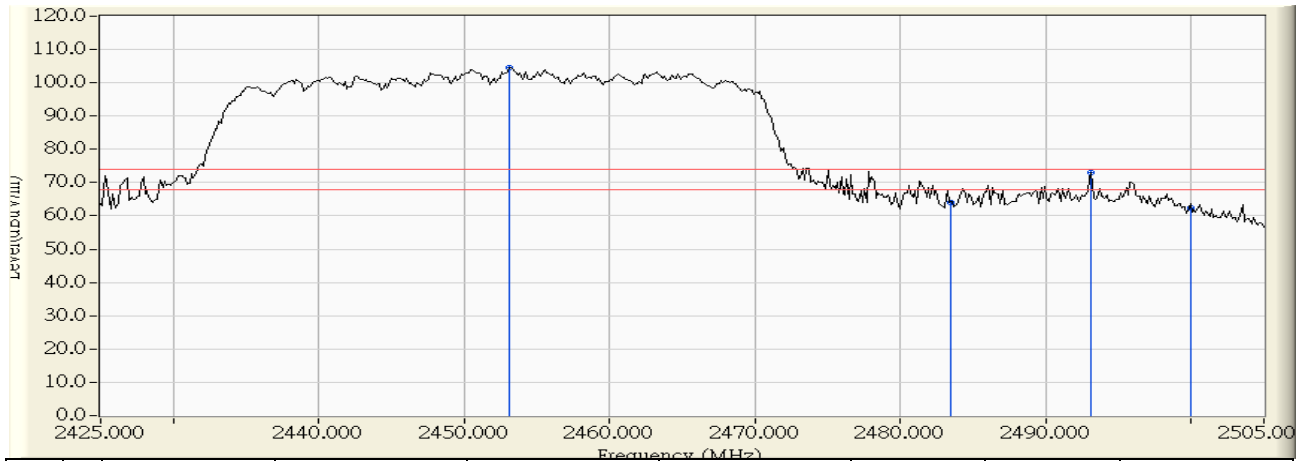


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2450.067	31.512	57.831	89.342	35.342	54.000	AVERAGE
2		2483.500	31.858	16.243	48.101	-5.899	54.000	AVERAGE
3		2491.000	31.936	17.379	49.315	-4.685	54.000	AVERAGE
4		2500.000	31.988	14.205	46.194	-7.806	54.000	AVERAGE

Note:

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 : 2013/09/10 - 10:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n40MHz 2452MHz

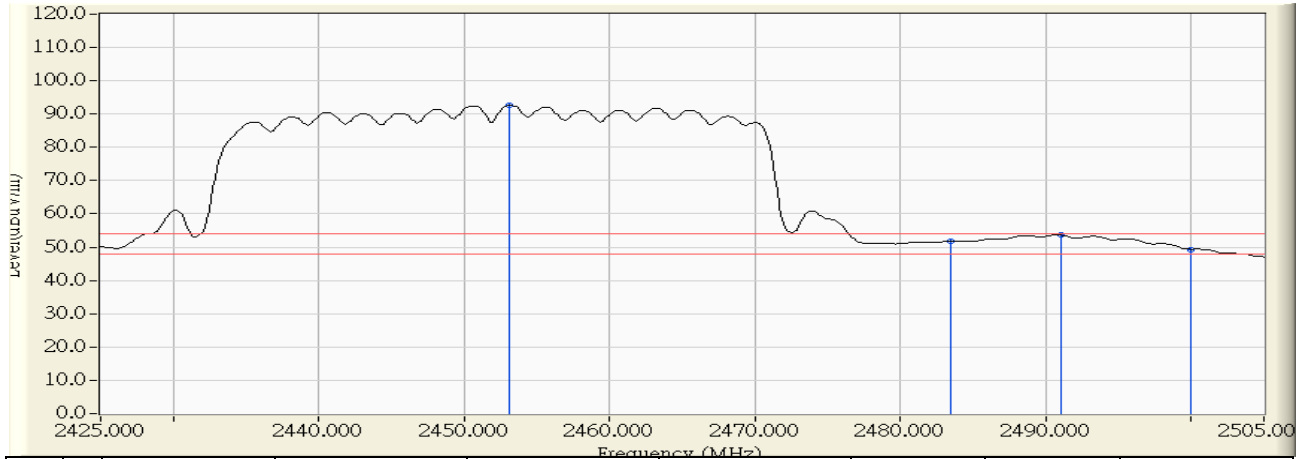


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2453.133	31.543	72.951	104.494	30.494	74.000	PEAK
2		2483.500	31.858	32.320	64.178	-9.822	74.000	PEAK
3		2493.133	31.958	40.986	72.944	-1.056	74.000	PEAK
4		2500.000	31.988	30.379	62.368	-11.632	74.000	PEAK

Note:

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 : 2013/09/10 - 10:36
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC120V/60Hz
EUT : Wireless N VDSL2 VoIP Combo WAN Gigabit IAD	Note : Mode1:Transmit_802.11n40MHz 2452MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2453.133	31.543	61.090	92.633	38.633	54.000	AVERAGE
2		2483.500	31.858	19.934	51.792	-2.208	54.000	AVERAGE
3		2491.000	31.936	21.709	53.645	-0.355	54.000	AVERAGE
4		2500.000	31.988	17.384	49.373	-4.627	54.000	AVERAGE

Note:

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

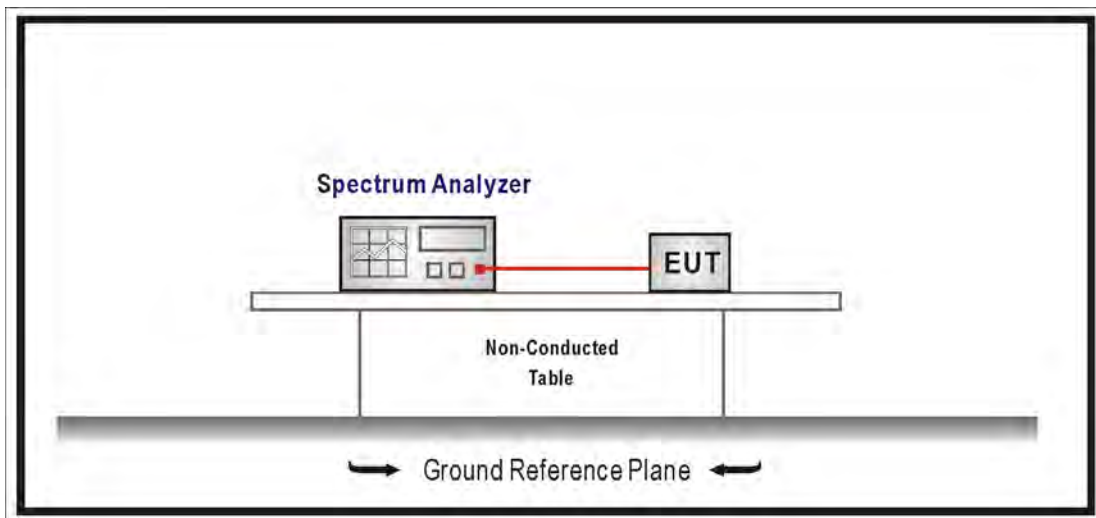
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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 section 8.1 of KDB558074 v03r01 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, VBW \geq 3xRBW, Sweep time=Auto, Set Peak detector.

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: 2012

7.6. Uncertainty

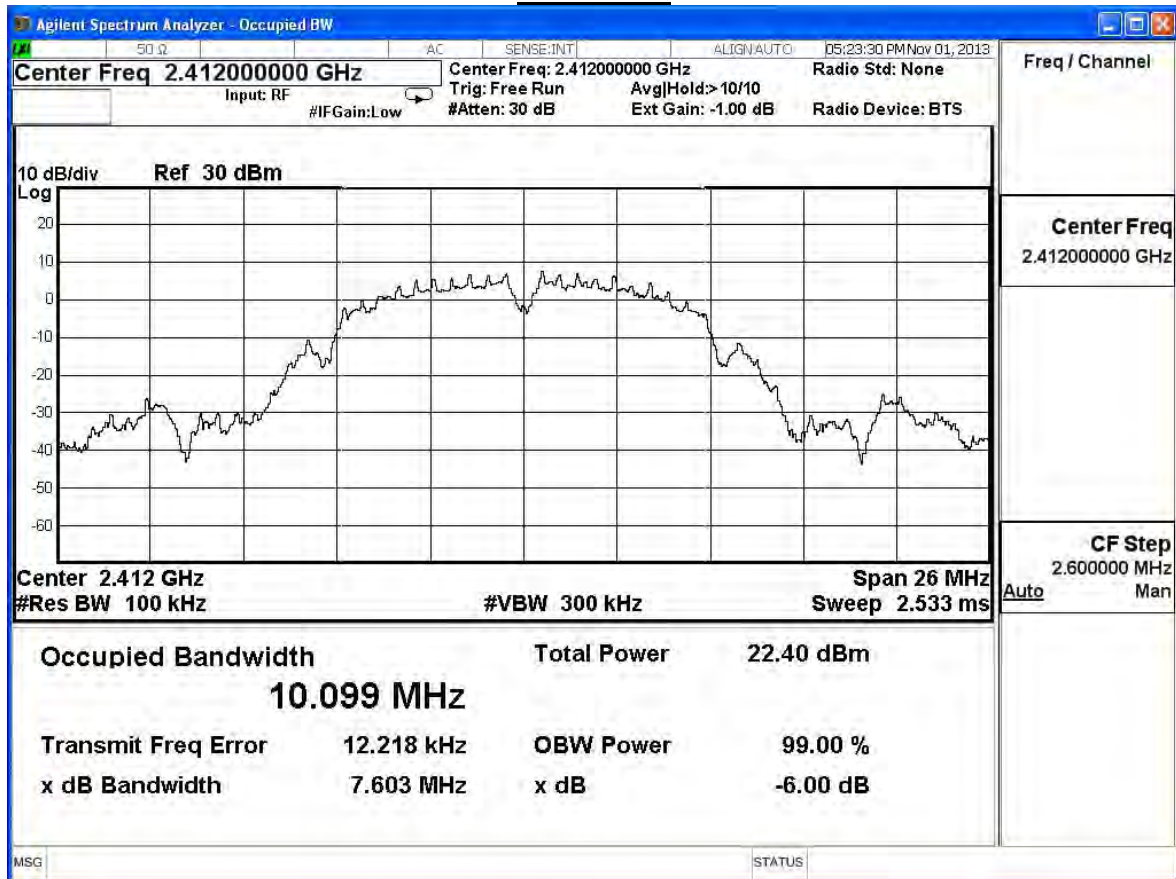
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.7. Test Result

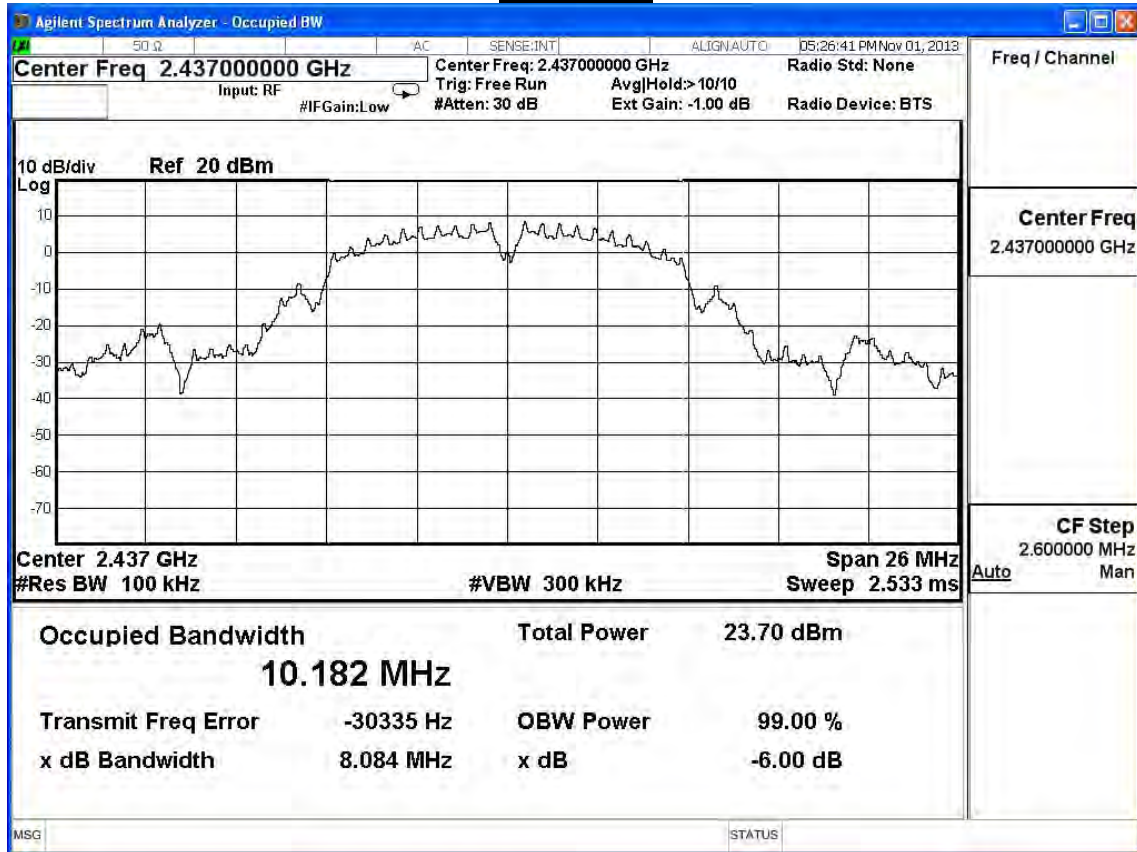
Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	7.60	≥ 0.5	Pass
6	2437	8.08	≥ 0.5	Pass
11	2462	8.09	≥ 0.5	Pass

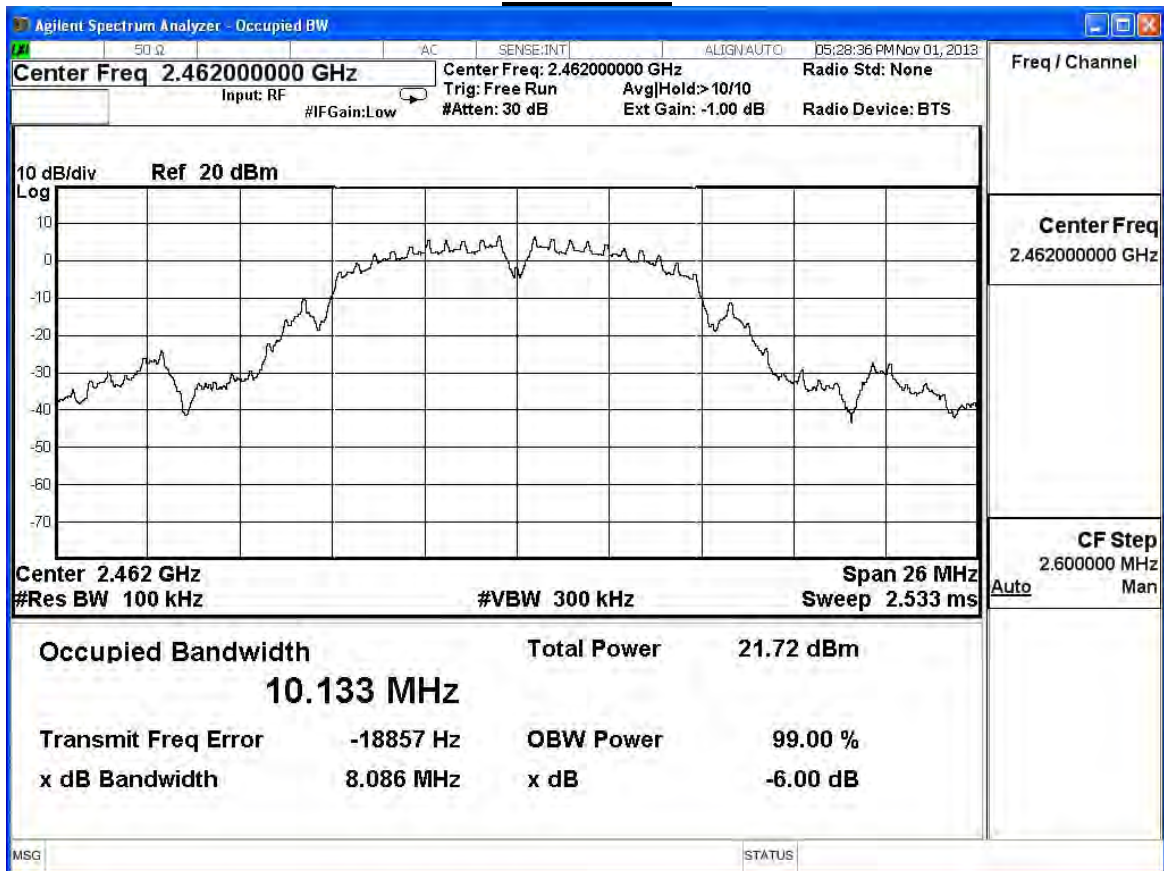
Channel 1



Channel 6



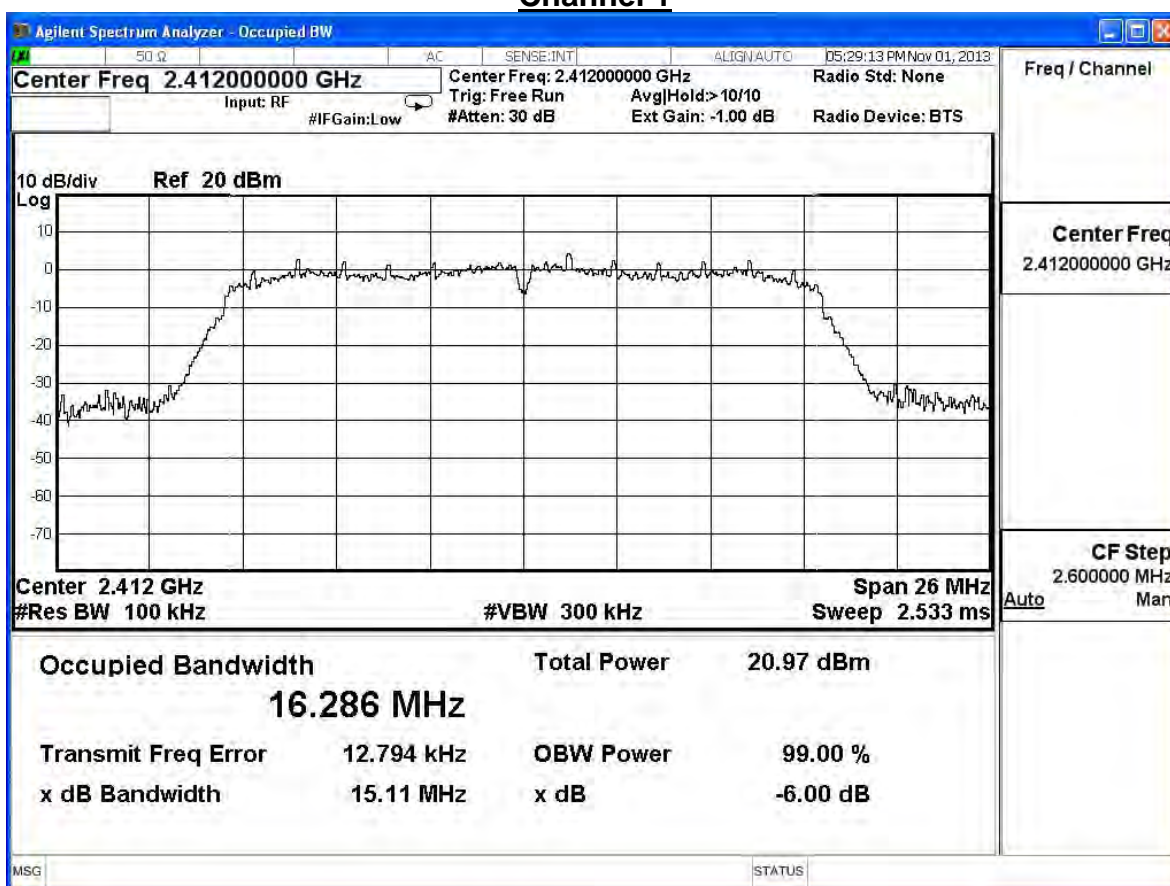
Channel 11



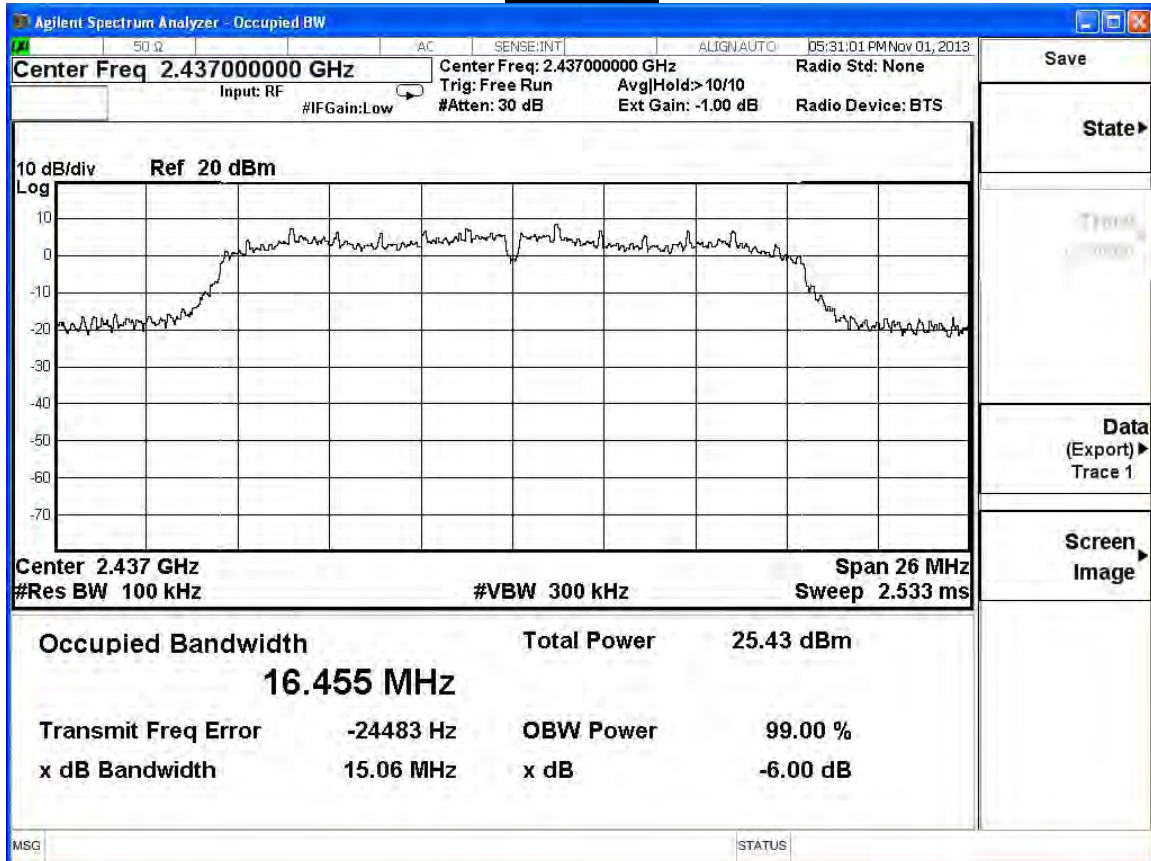
Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	15.11	≥ 0.5	Pass
6	2437	15.06	≥ 0.5	Pass
11	2462	15.10	≥ 0.5	Pass

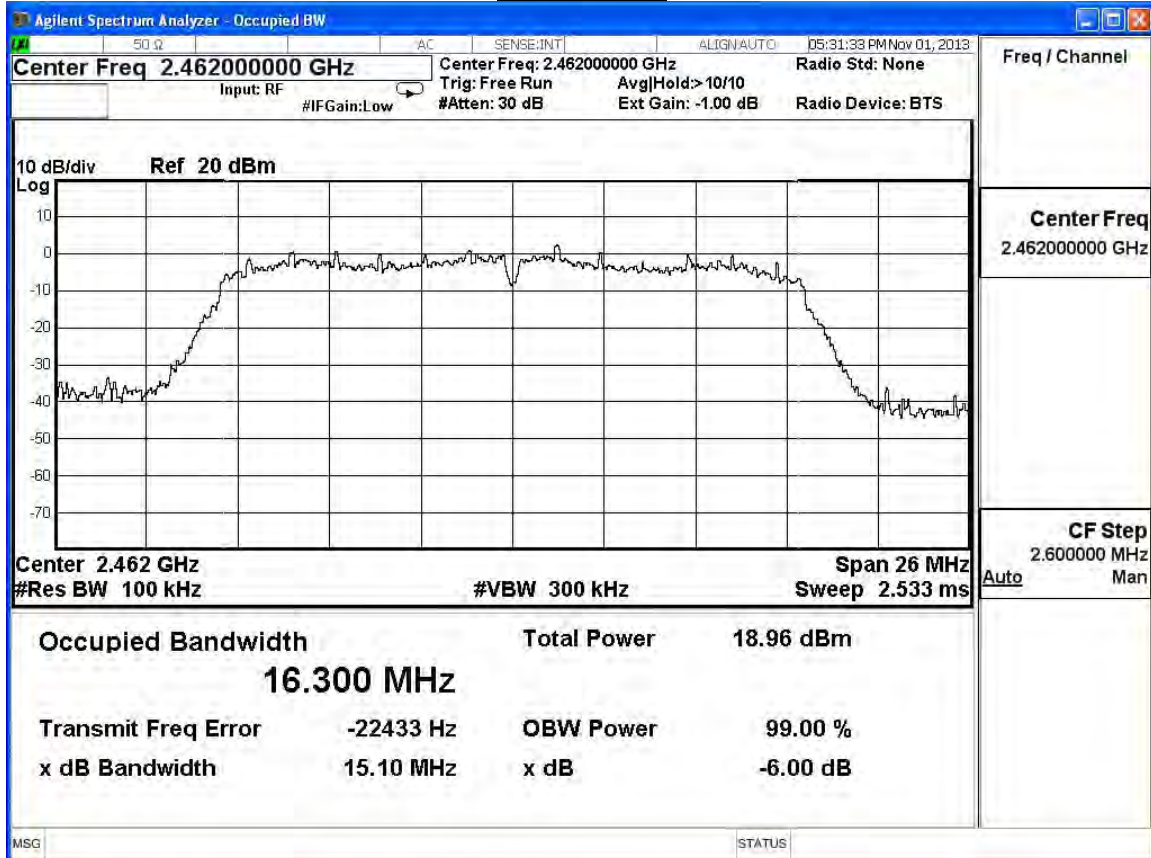
Channel 1



Channel 6



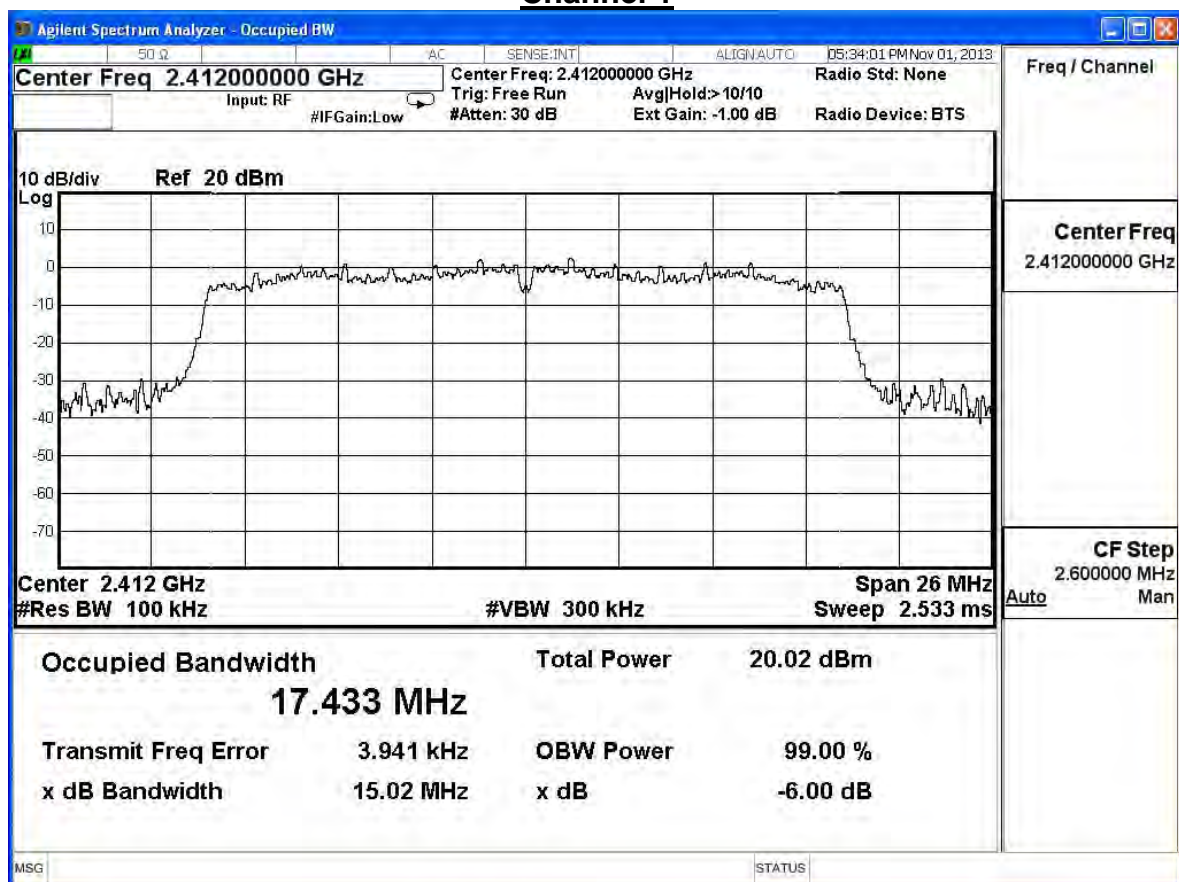
Channel 11



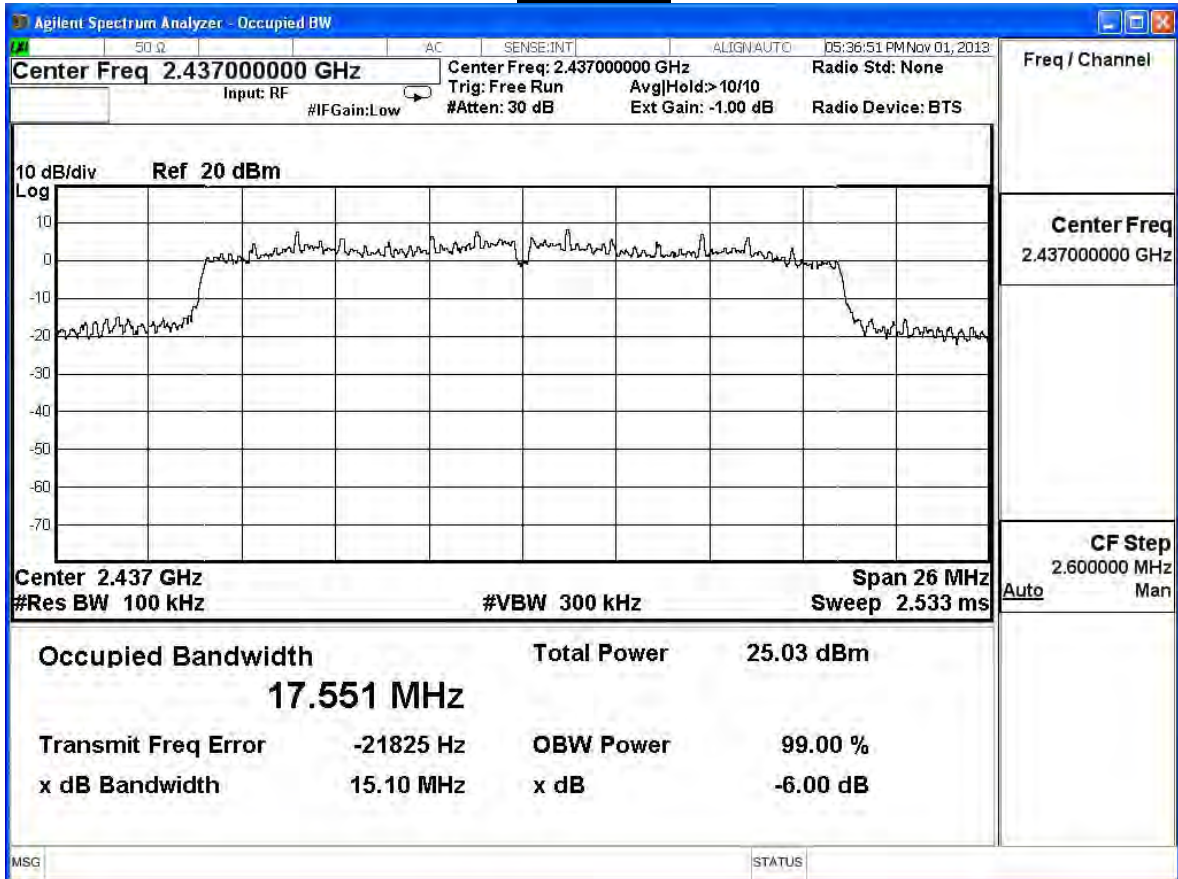
Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

IEEE 802.11n (20MHz) (Ant 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	15.02	≥ 0.5	Pass
6	2437	15.10	≥ 0.5	Pass
11	2462	15.71	≥ 0.5	Pass

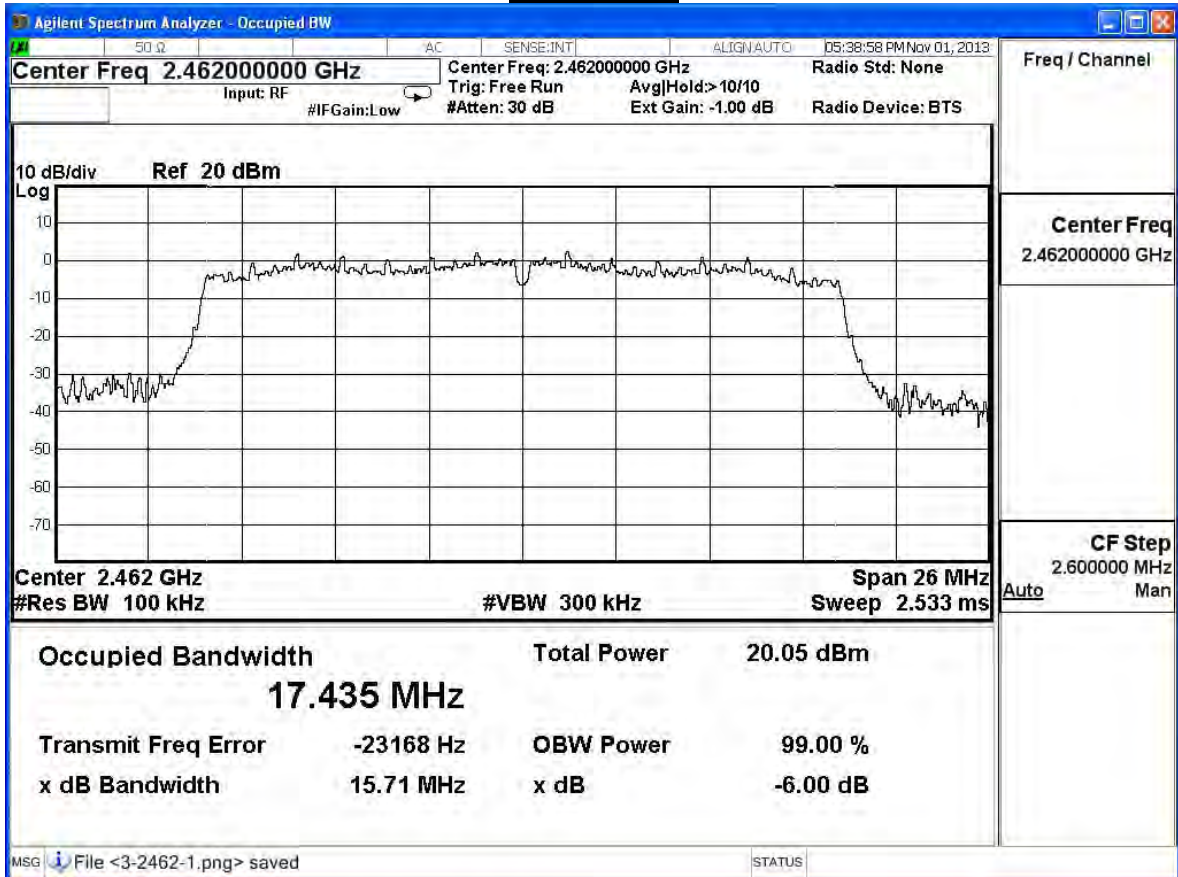
Channel 1



Channel 6



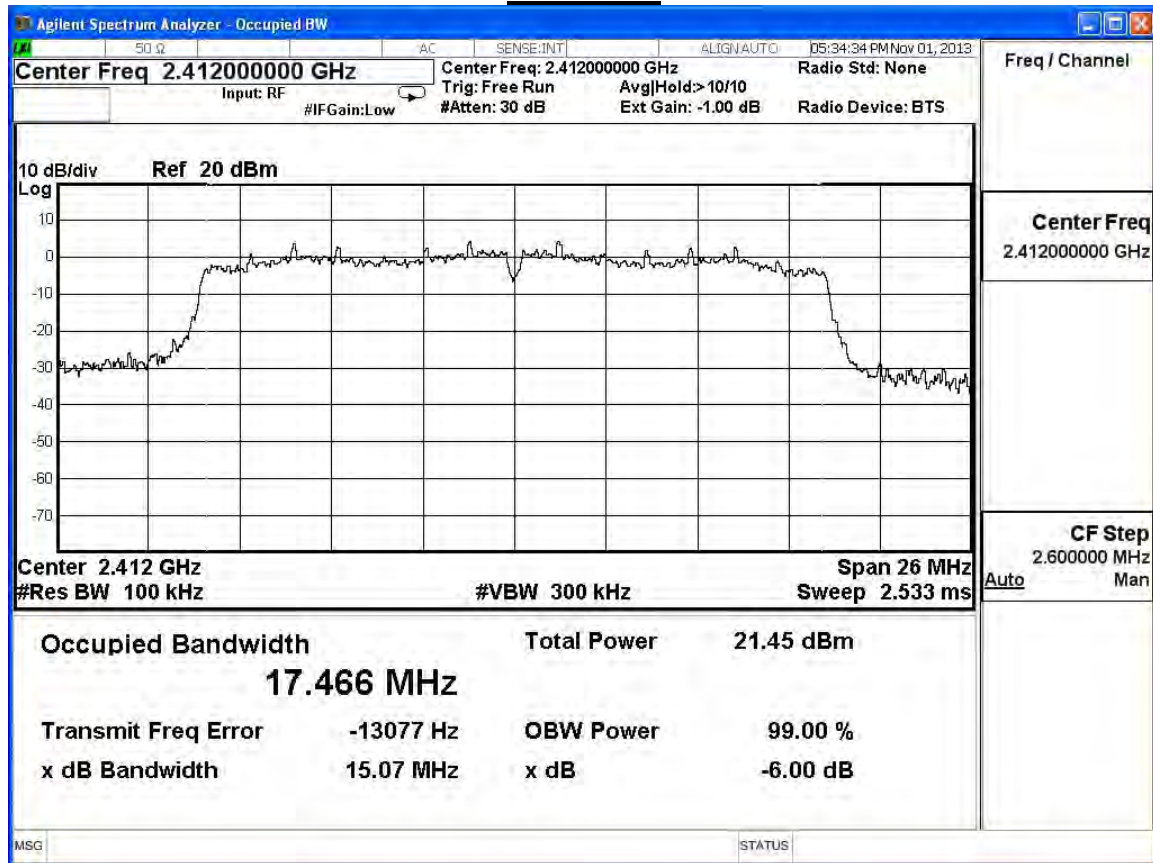
Channel 11



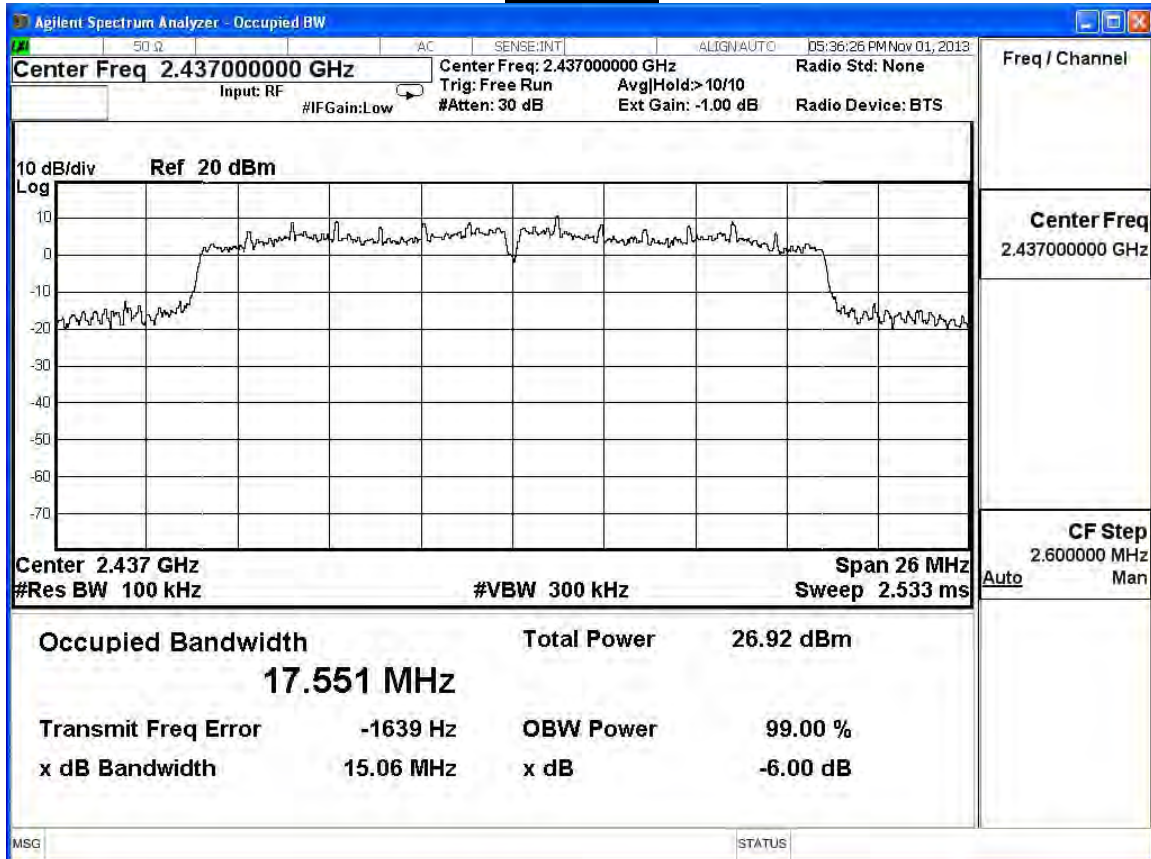
Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

IEEE 802.11n (20MHz) (Ant 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	15.07	≥ 0.5	Pass
6	2437	15.06	≥ 0.5	Pass
11	2462	16.06	≥ 0.5	Pass

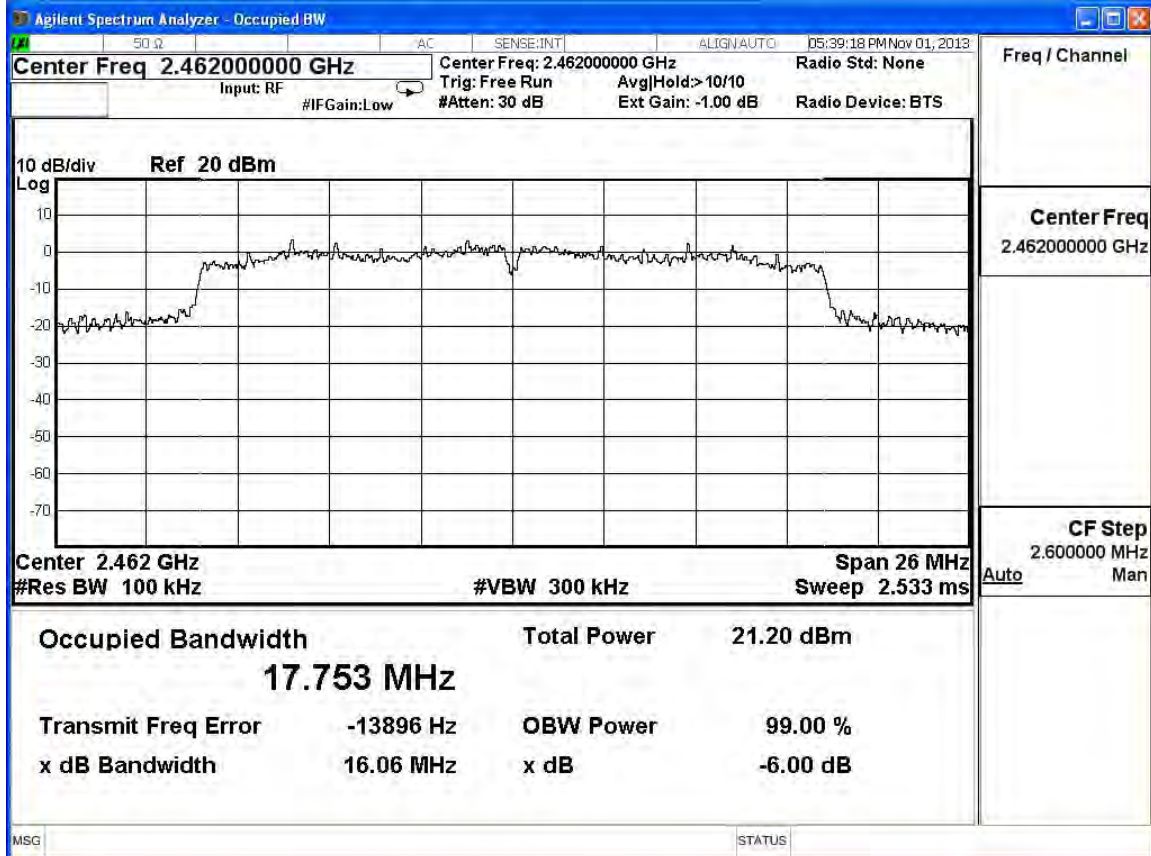
Channel 1



Channel 6



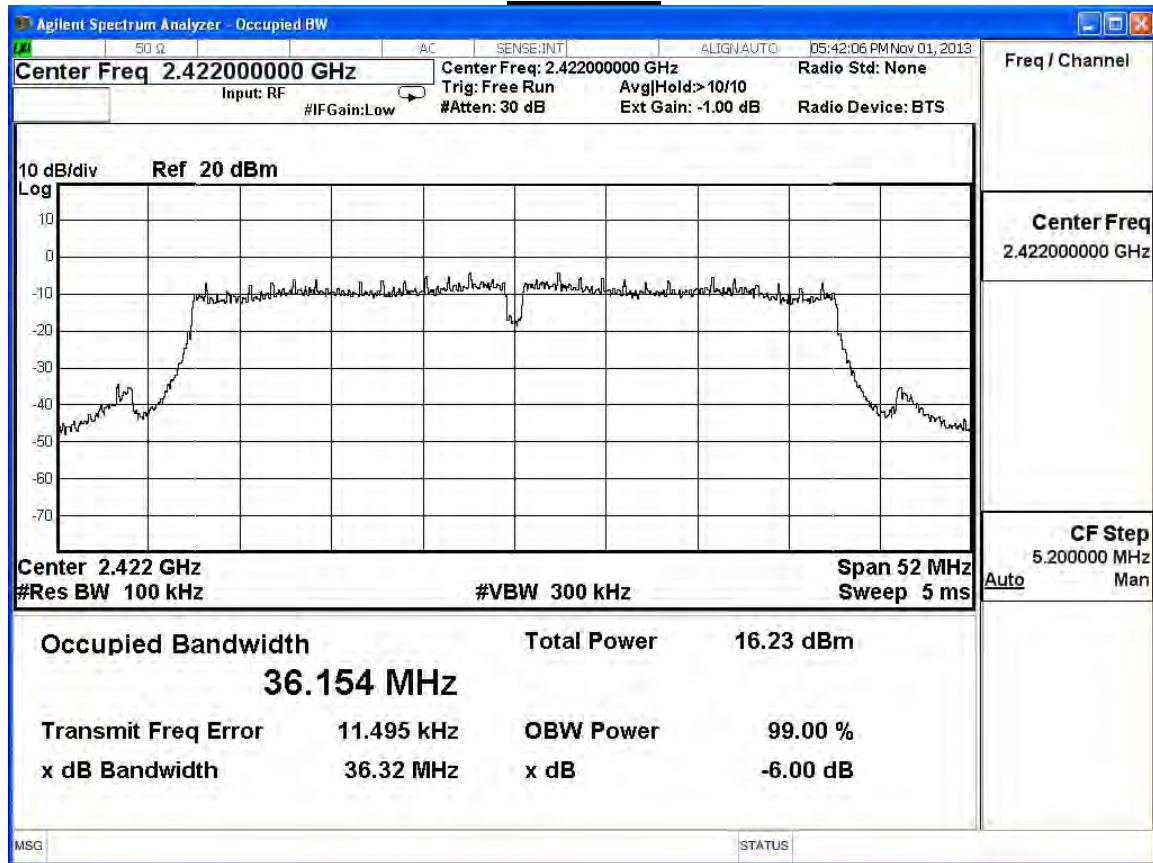
Channel 11



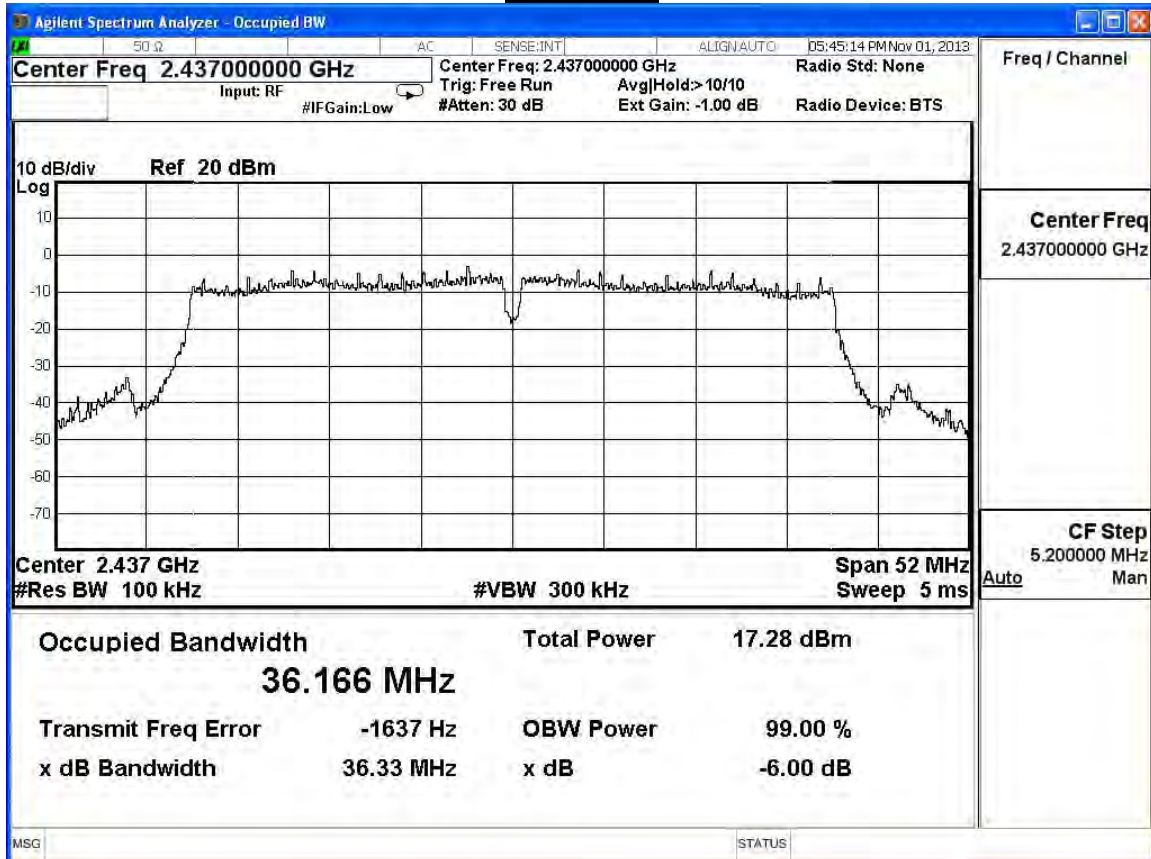
Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

IEEE 802.11n (40MHz) (Ant 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.32	≥ 0.5	Pass
6	2437	36.33	≥ 0.5	Pass
9	2452	36.34	≥ 0.5	Pass

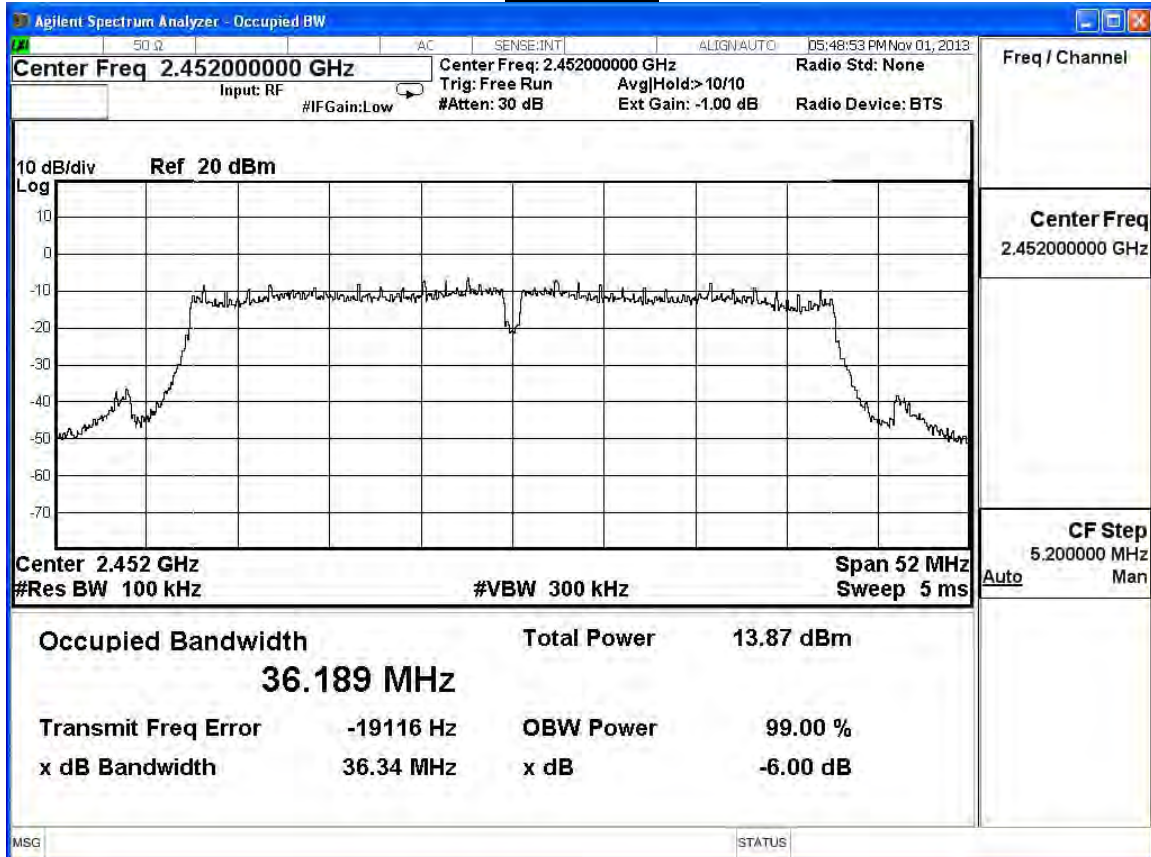
Channel 3



Channel 6



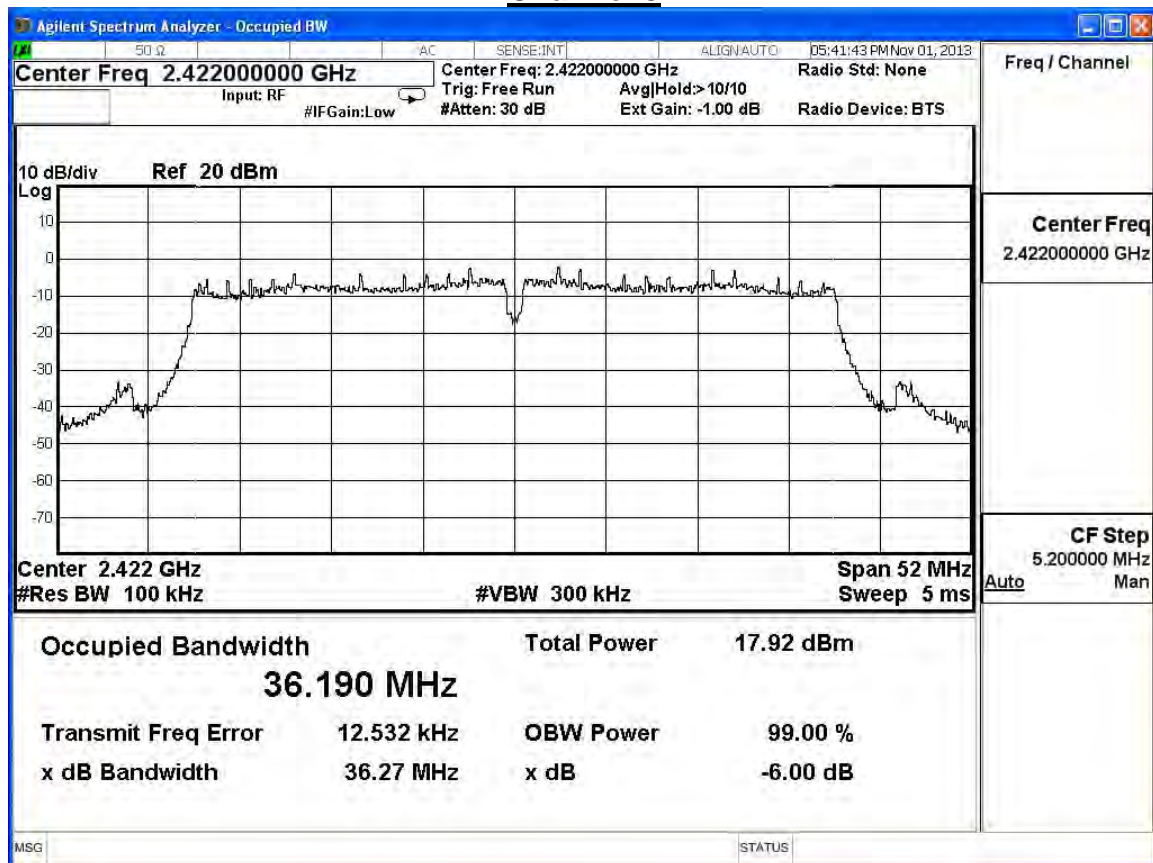
Channel 9



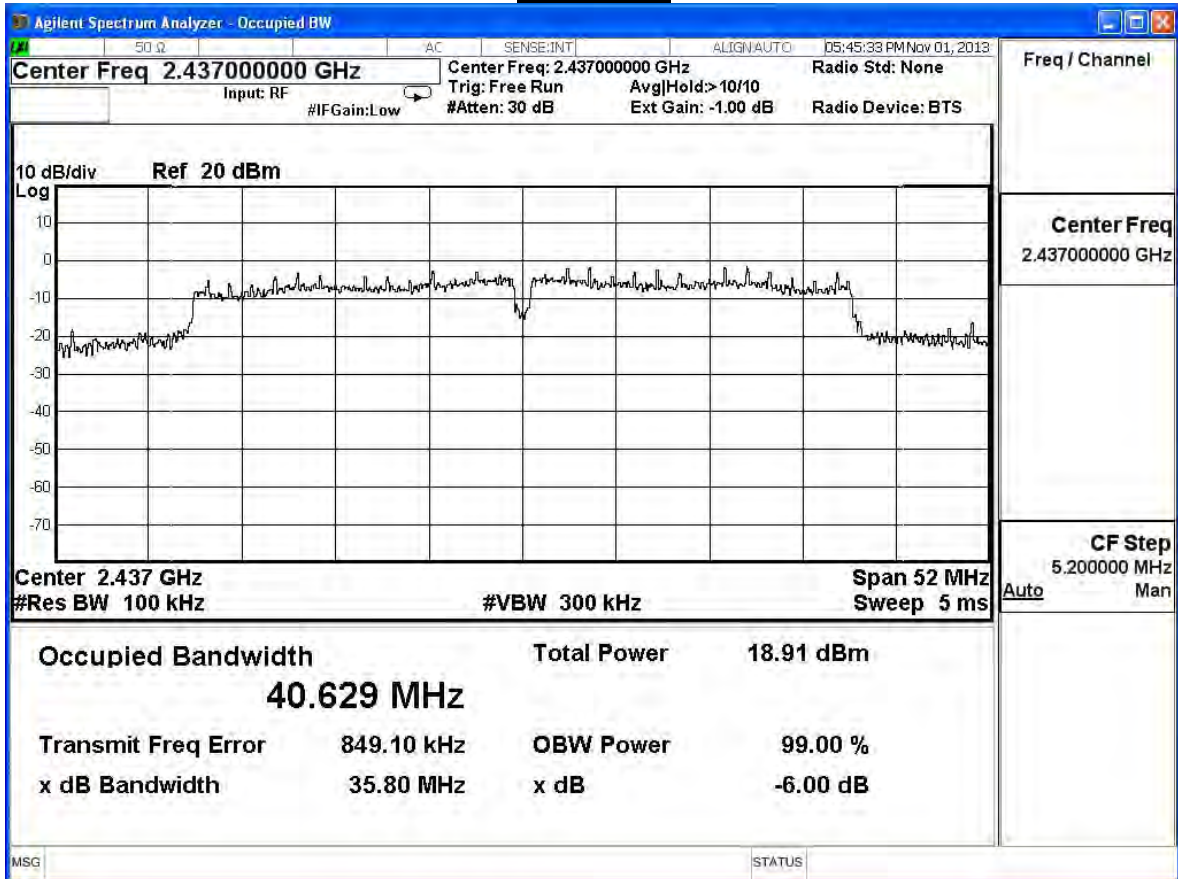
Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

IEEE 802.11n (40MHz) (Ant 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.27	≥ 0.5	Pass
6	2437	35.80	≥ 0.5	Pass
9	2452	35.76	≥ 0.5	Pass

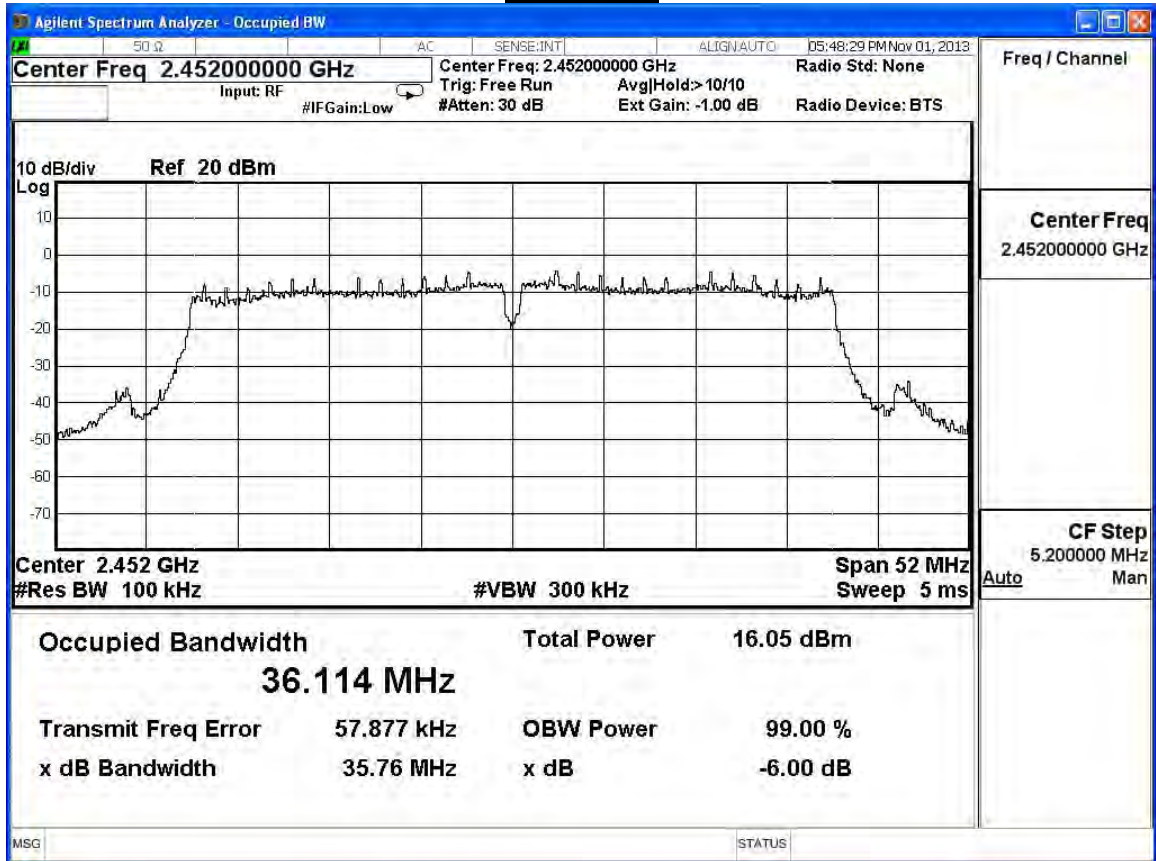
Channel 3



Channel 6



Channel 9



8. Power Density

8.1. Test Equipment

The following test equipment is used during the test:

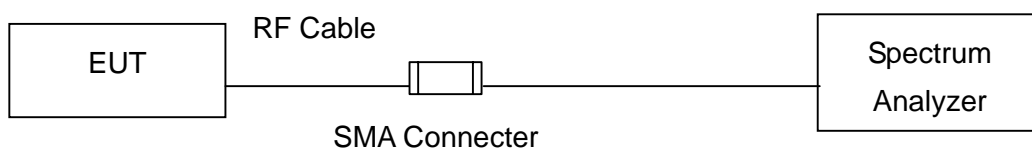
Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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

8.2. Test Setup

IEEE 802.11 b / g / n 20M MODE



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure section 10.2 of KDB558074 v03r01 for compliance to FCC 47CFR 15.247 requirements. Set 3KHz \leq RBW \leq 100 kHz, Set VBW \geq 3xRBW, Sweep time=Auto, Set Peak detector; tested according to section E)c) of KDB662911 v02v01.

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

8.6. Uncertainty

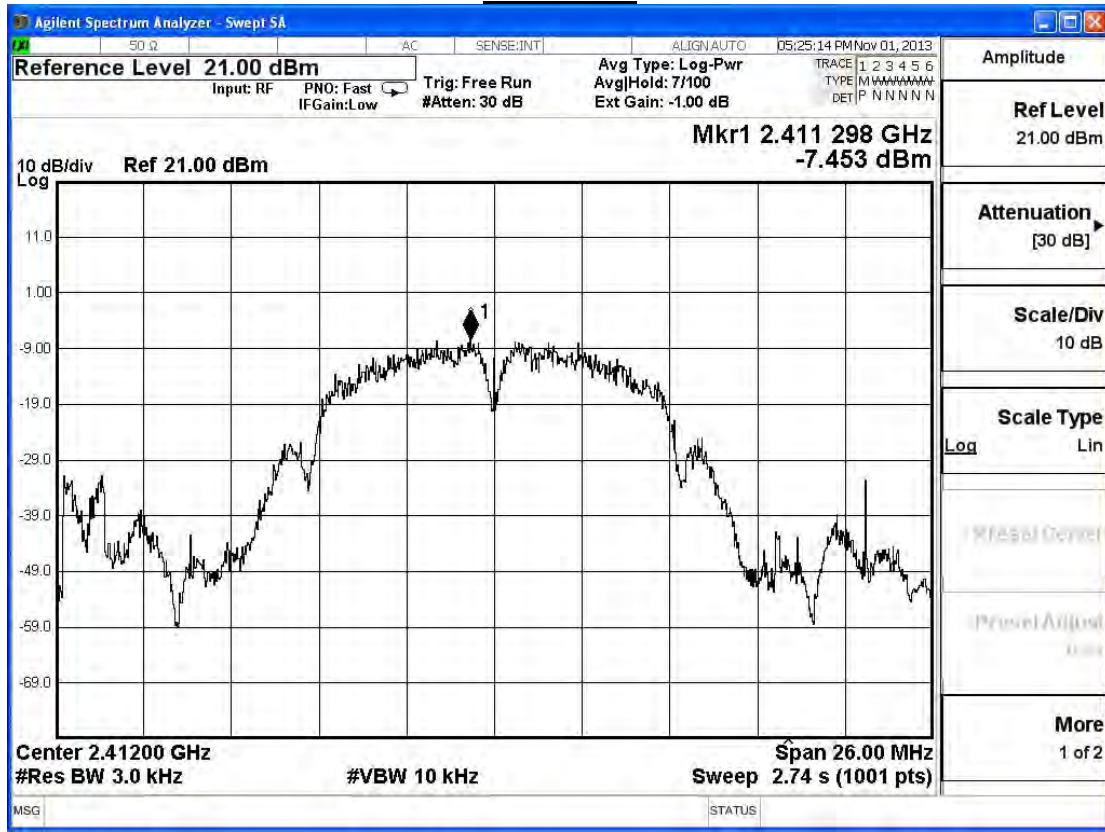
The measurement uncertainty is defined as ± 1.27 dB.

8.7. Test Result

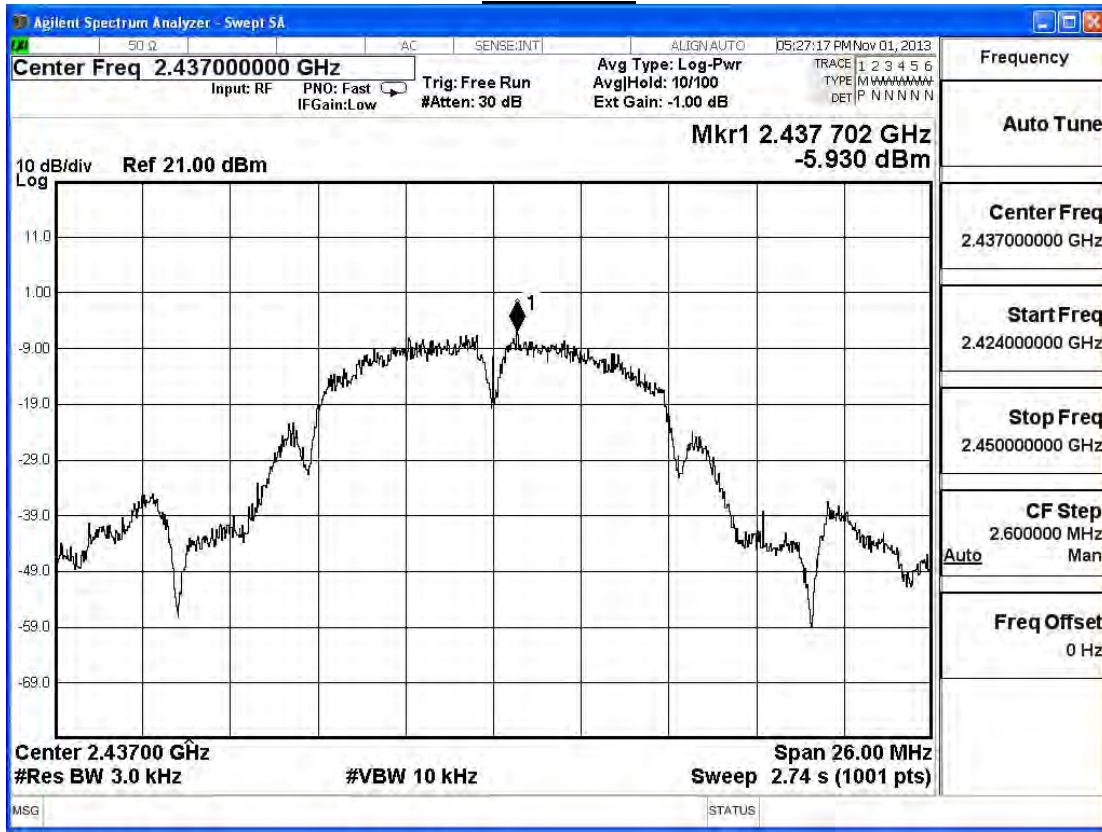
Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-7.45	≤ 8	Pass
6	2437	-5.93	≤ 8	Pass
11	2462	-7.71	≤ 8	Pass

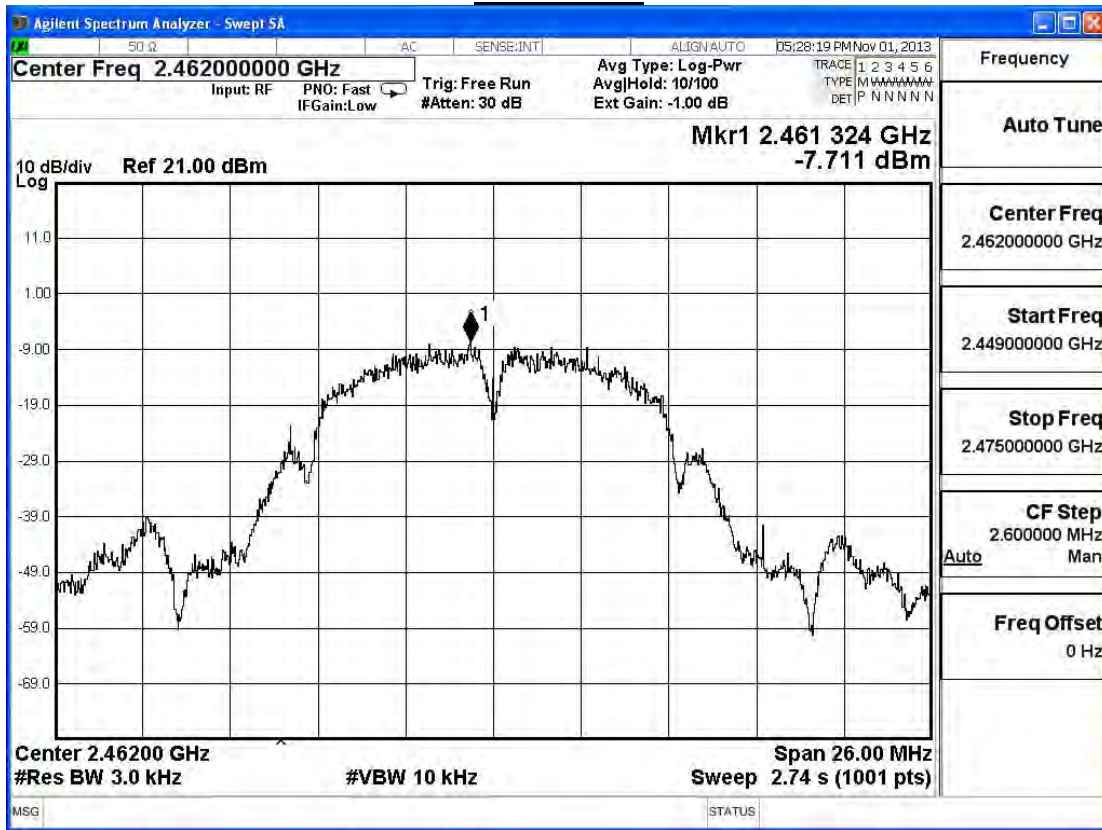
Channel 1



Channel 6



Channel 11

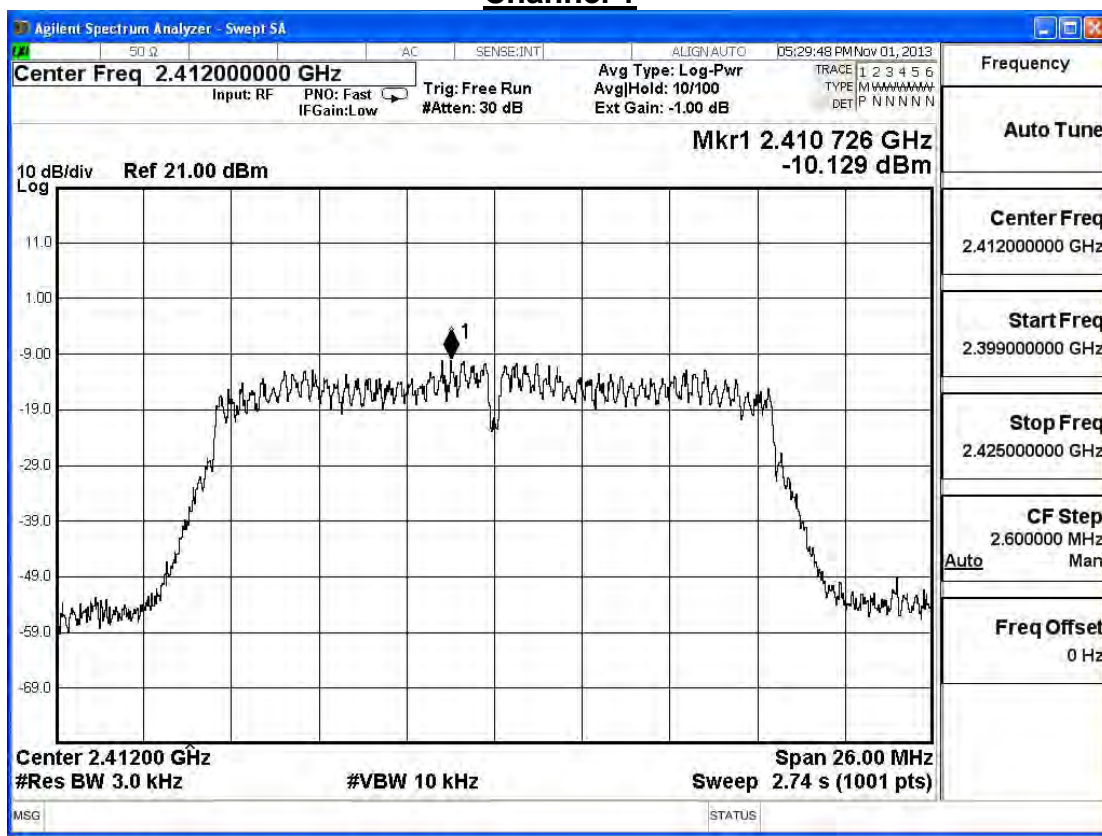


Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

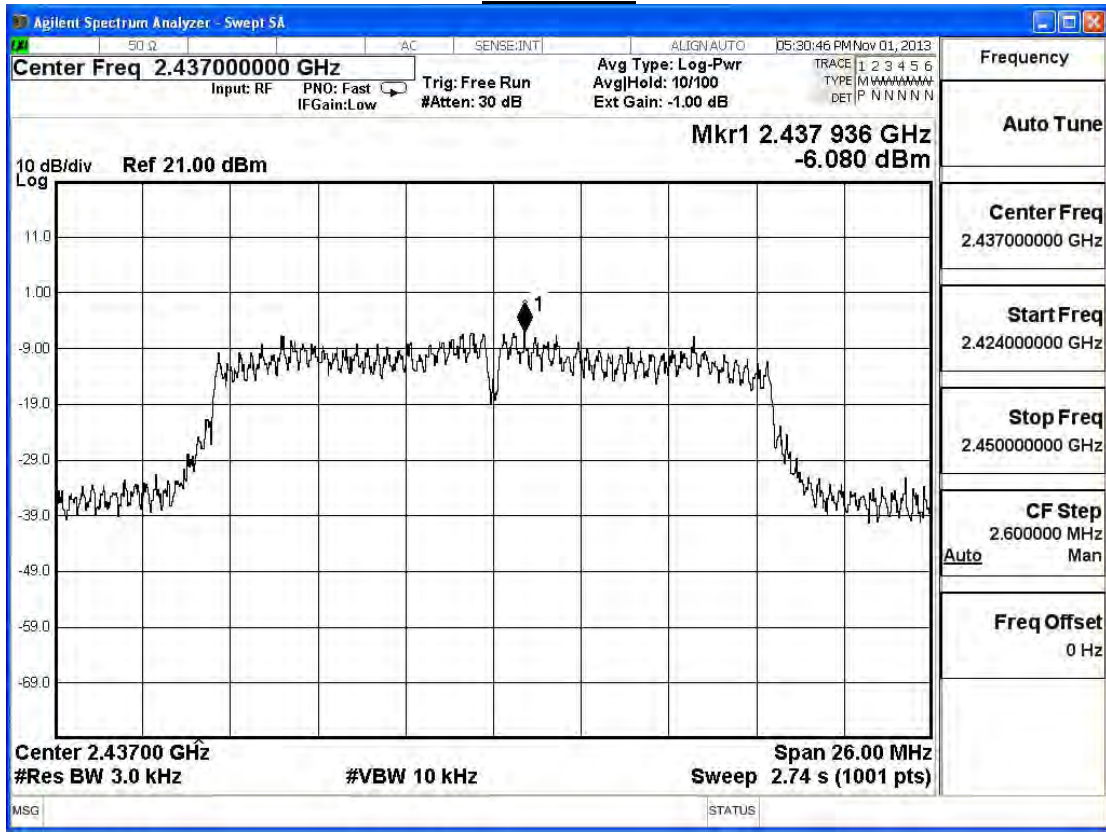
IEEE 802.11g

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-10.11	≤ 8	Pass
6	2437	-6.08	≤ 8	Pass
11	2462	-12.23	≤ 8	Pass

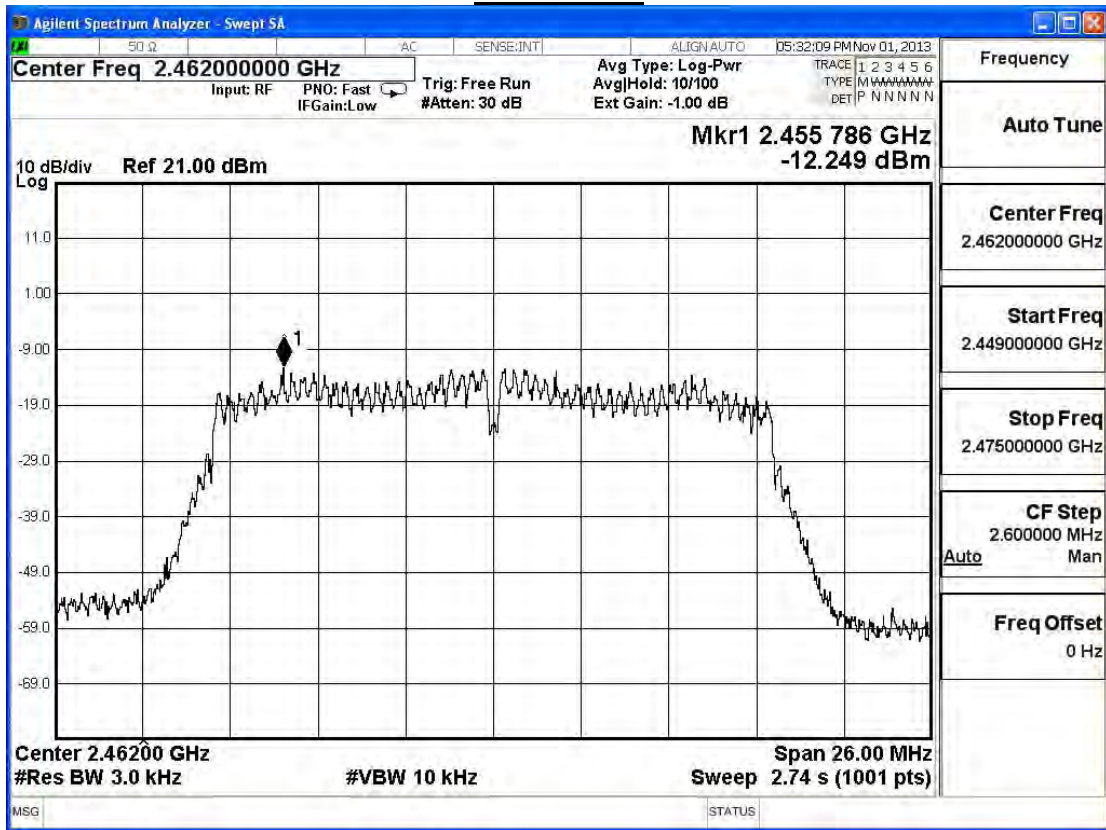
Channel 1



Channel 6



Channel 11

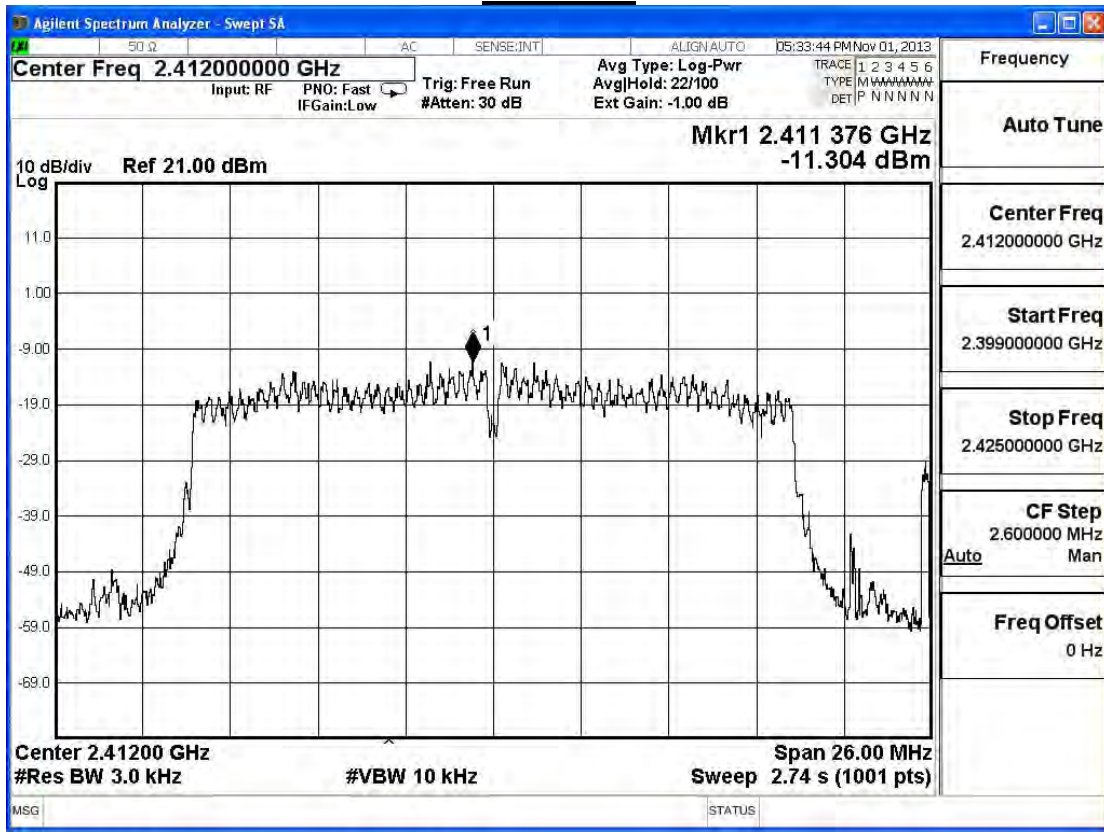


Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

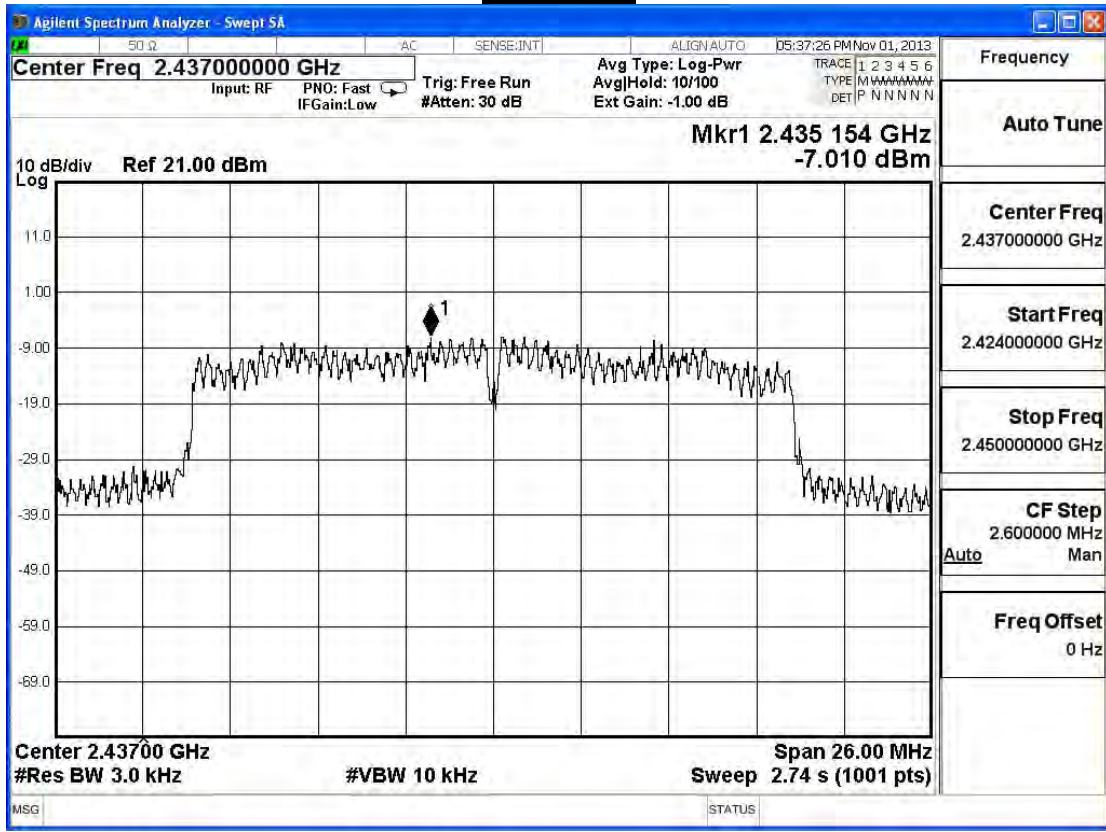
IEEE 802.11n(20MHz) Ant0

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-11.30	≤ 8	Pass
6	2437	-7.01	≤ 8	Pass
11	2462	-11.20	≤ 8	Pass

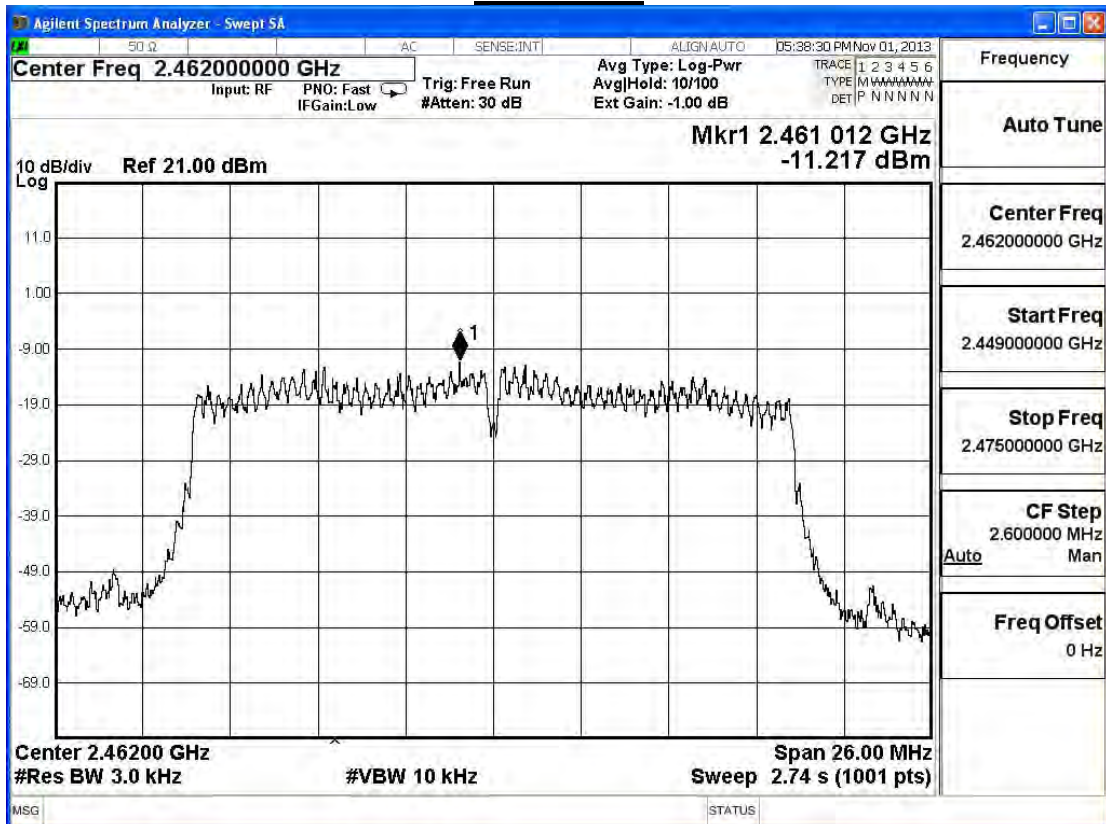
Channel 1



Channel 6



Channel 11

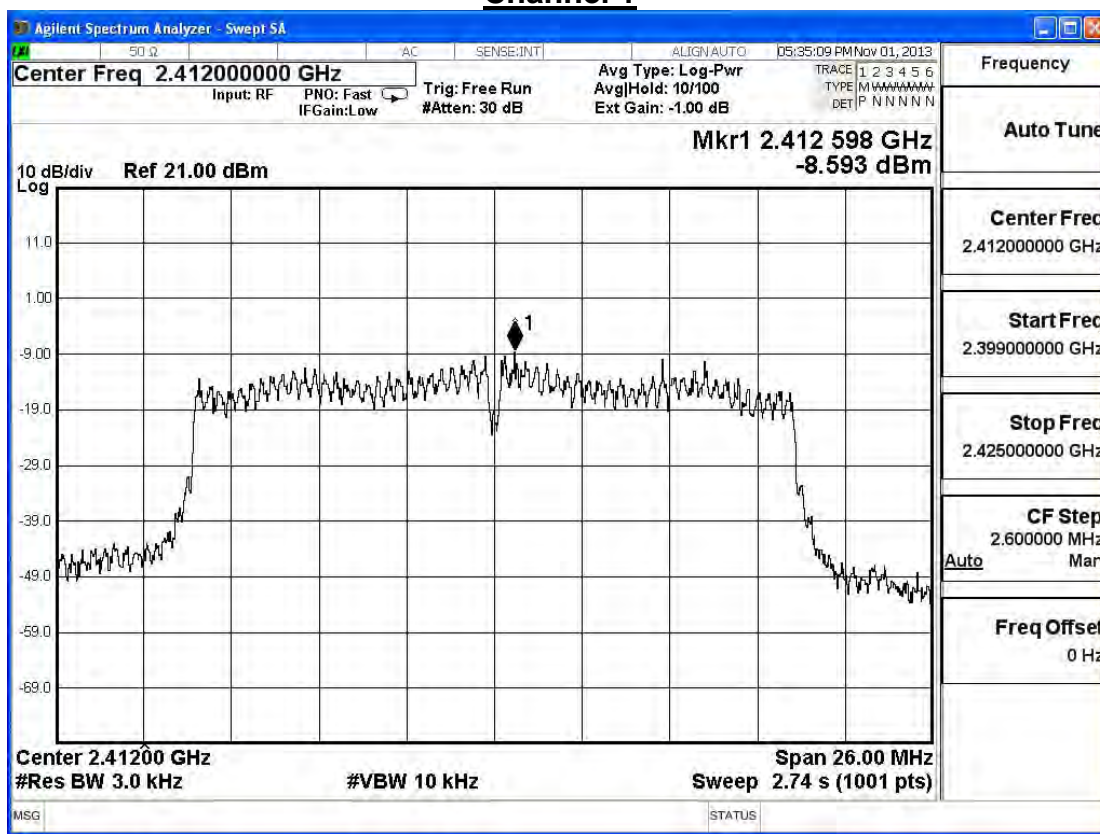


Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

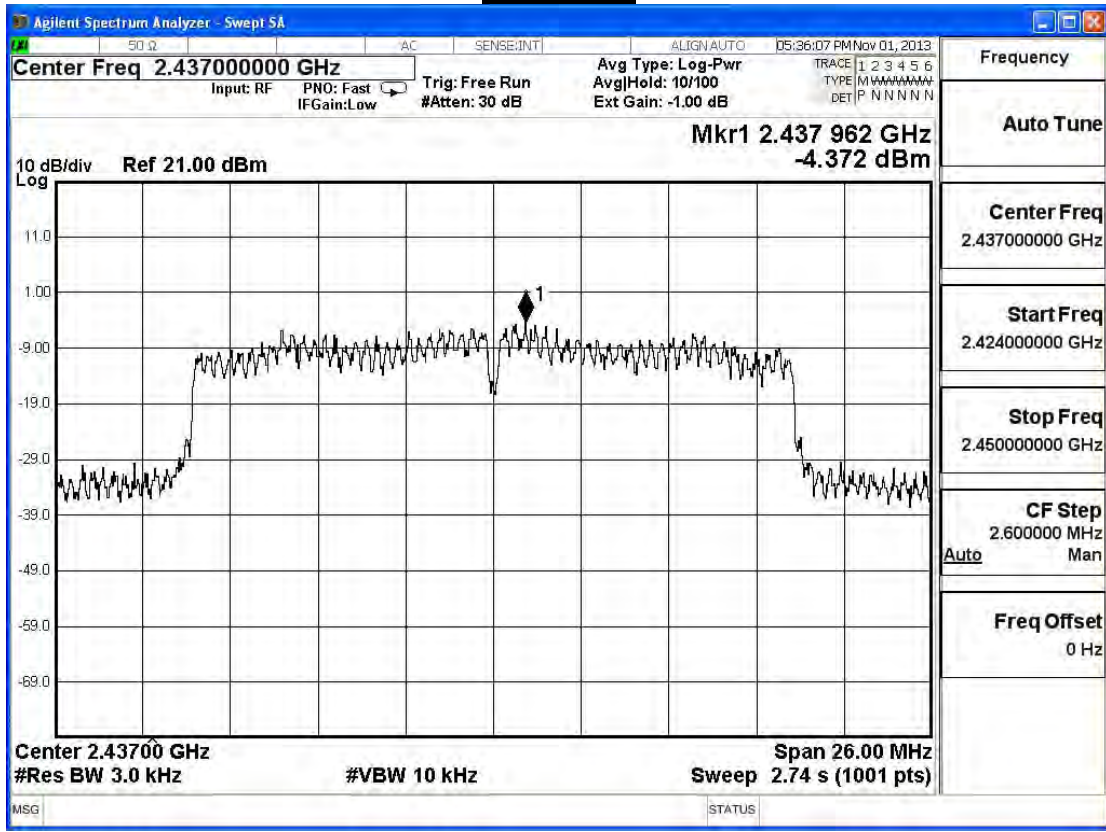
IEEE 802.11n(20MHz) Ant1

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-8.59	≤ 8	Pass
6	2437	-4.37	≤ 8	Pass
11	2462	-9.28	≤ 8	Pass

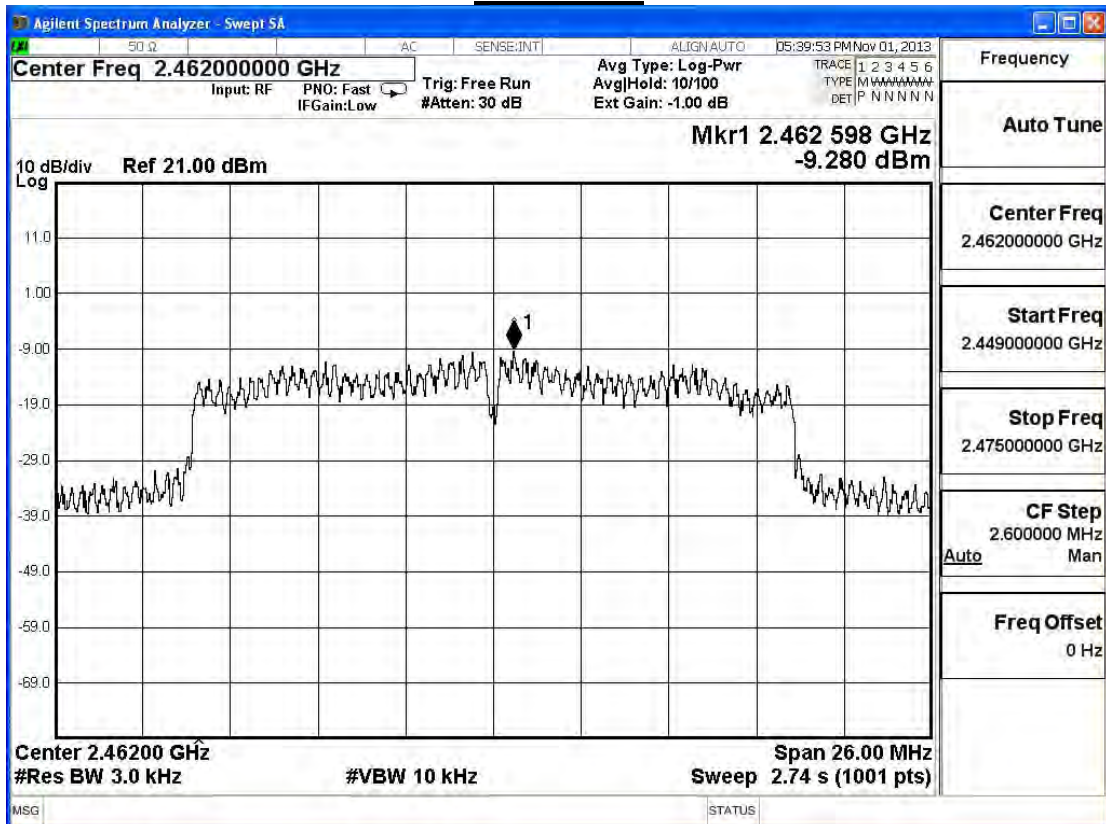
Channel 1



Channel 6



Channel 11



Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

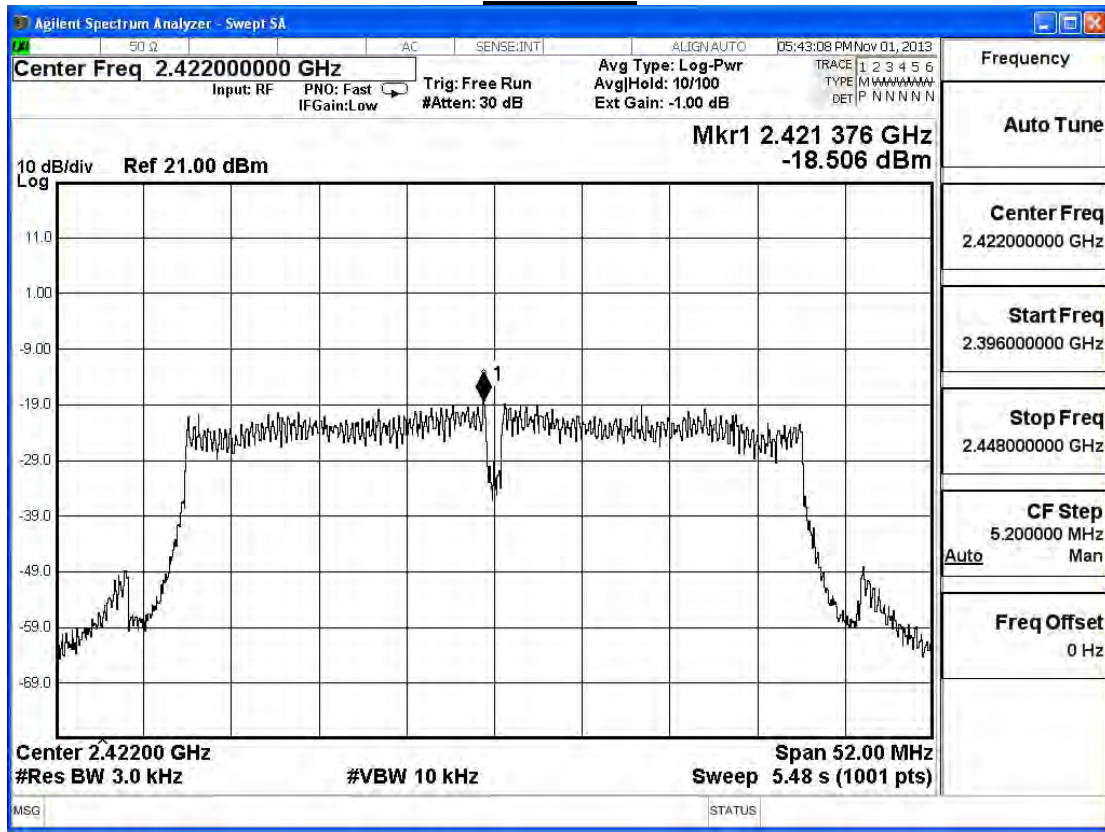
IEEE 802.11n(20MHz) (Worse Condition+10log(Ant N))=Ant1				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	-5.59	≤8	Pass
6	2437	-1.37	≤8	Pass
11	2462	-6.28	≤8	Pass

Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

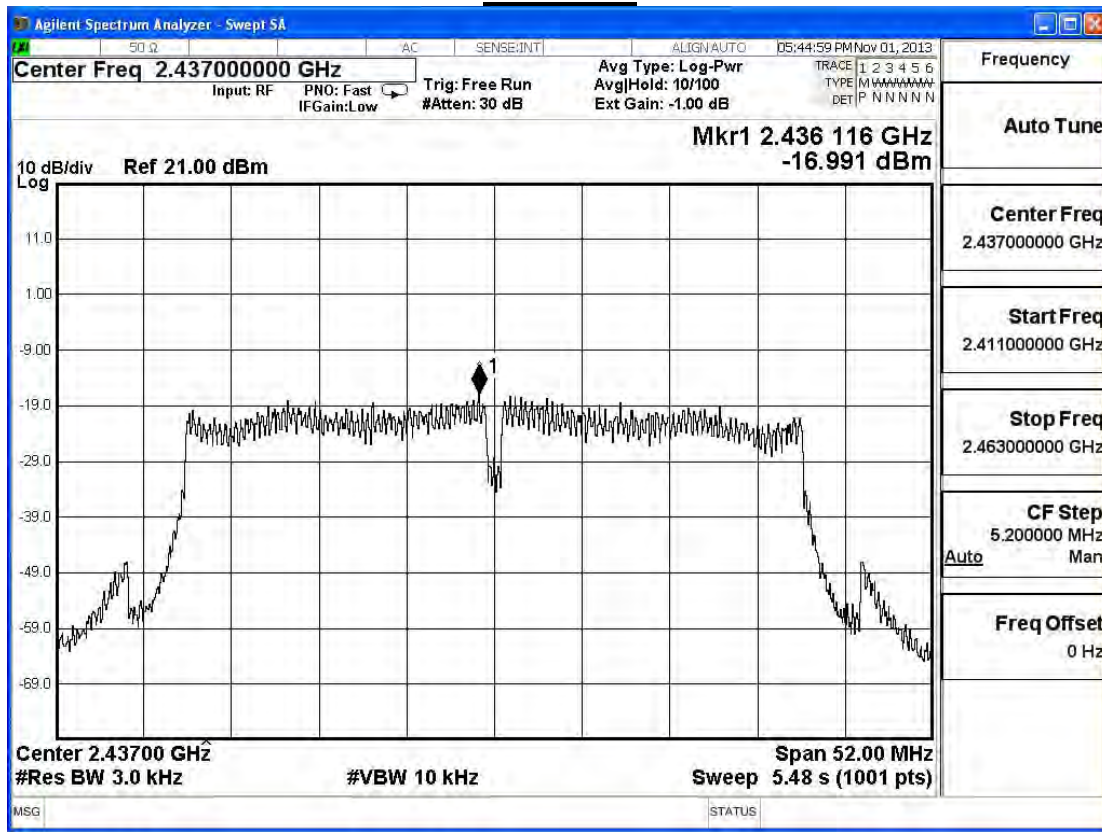
IEEE 802.11n(40MHz) Ant0

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	-18.49	≤ 8	Pass
6	2437	-16.99	≤ 8	Pass
9	2452	-19.64	≤ 8	Pass

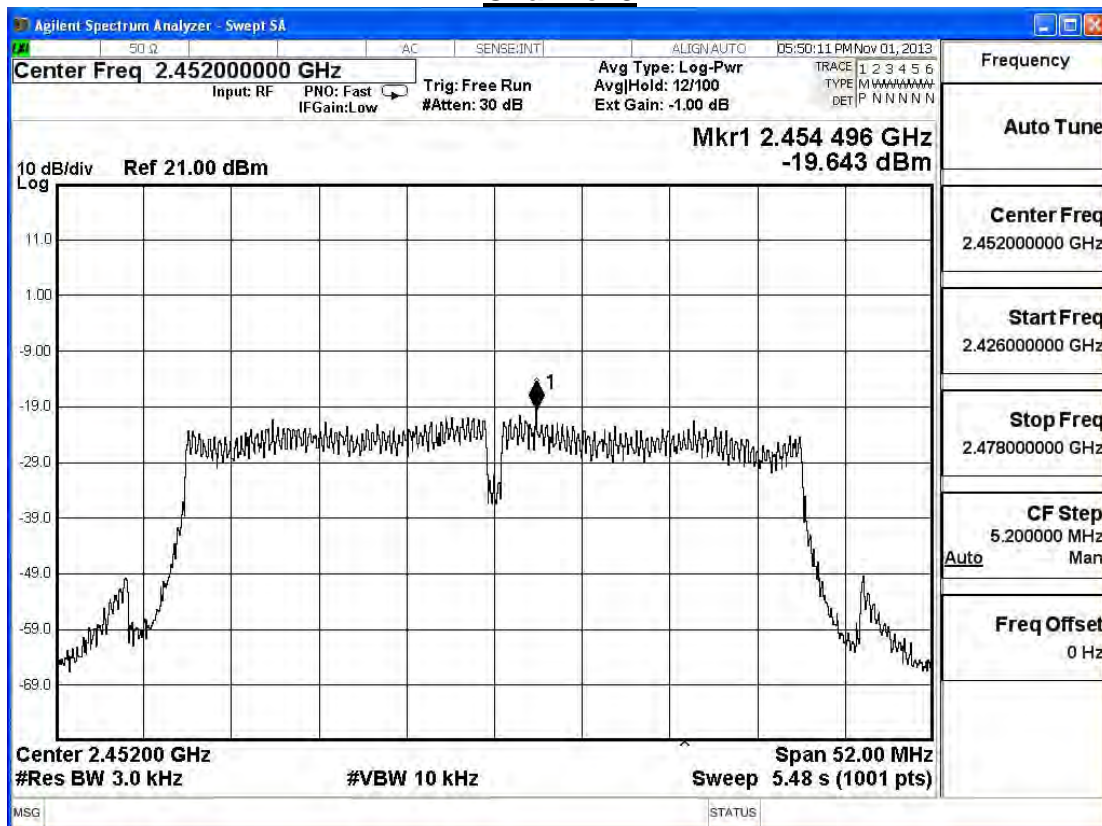
Channel 3



Channel 6



Channel 9

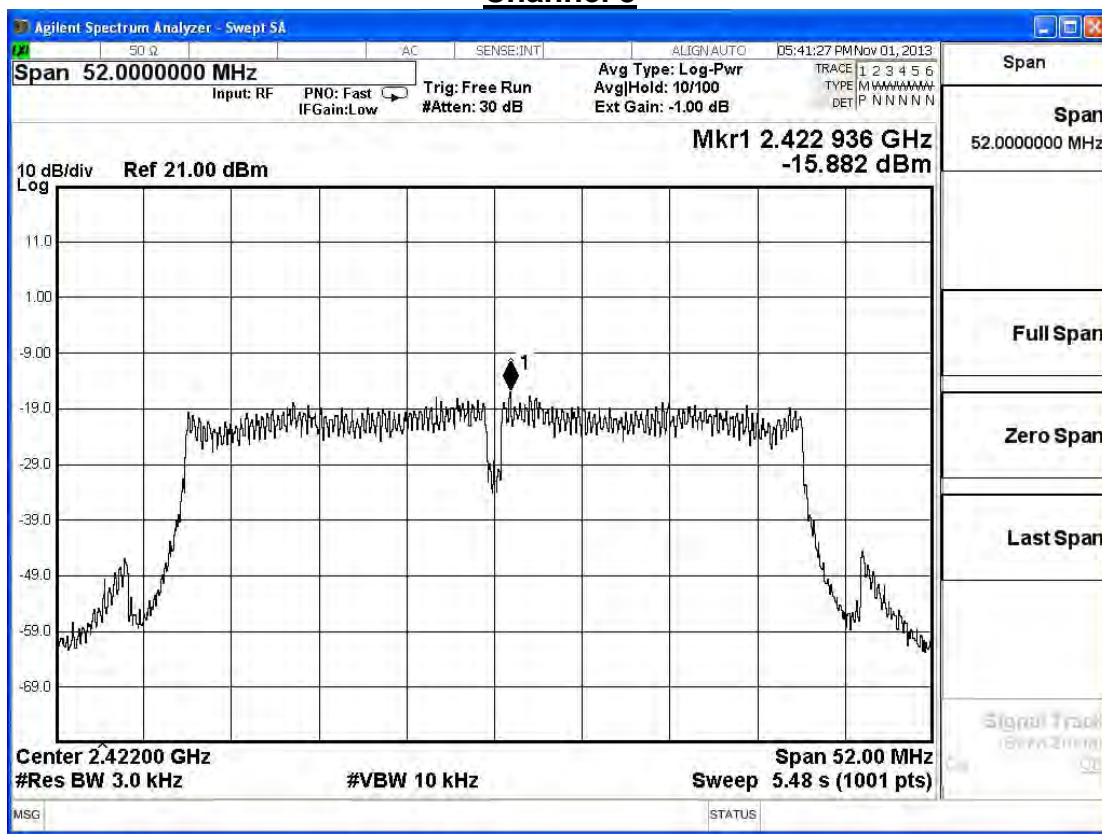


Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

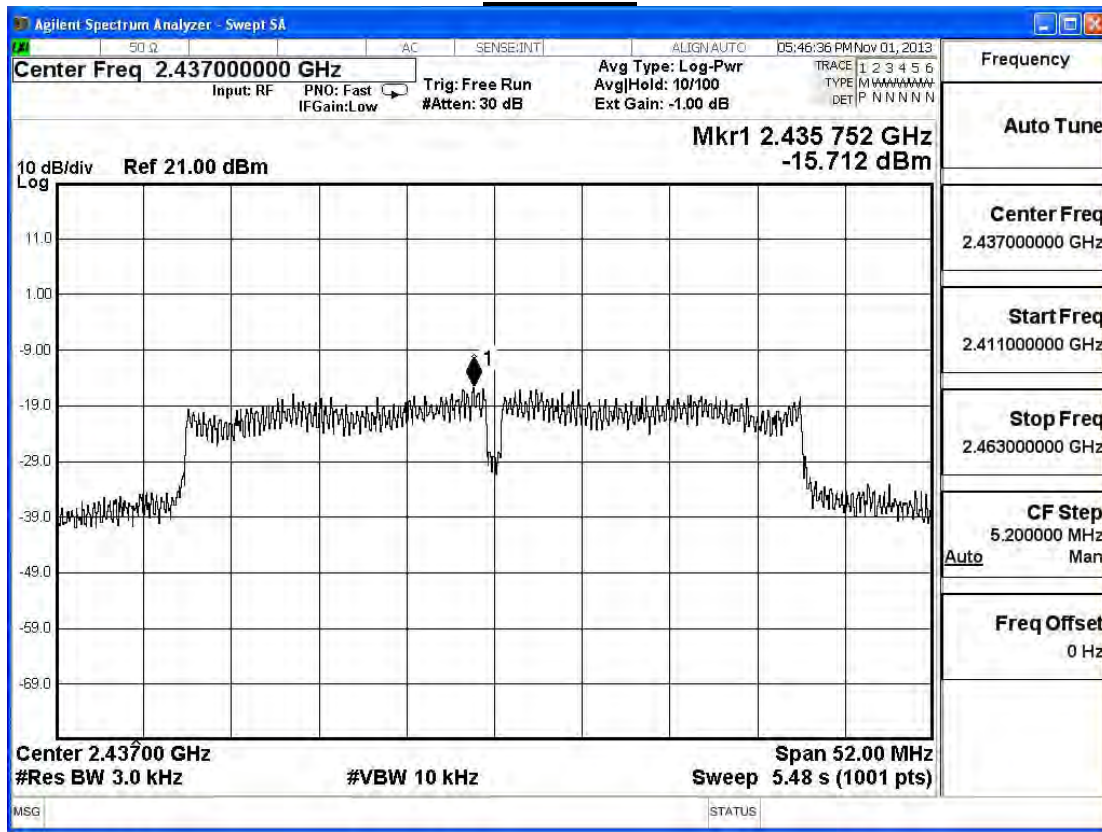
IEEE 802.11n(40MHz) Ant1

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	-15.88	≤ 8	Pass
6	2437	-15.71	≤ 8	Pass
9	2452	-18.33	≤ 8	Pass

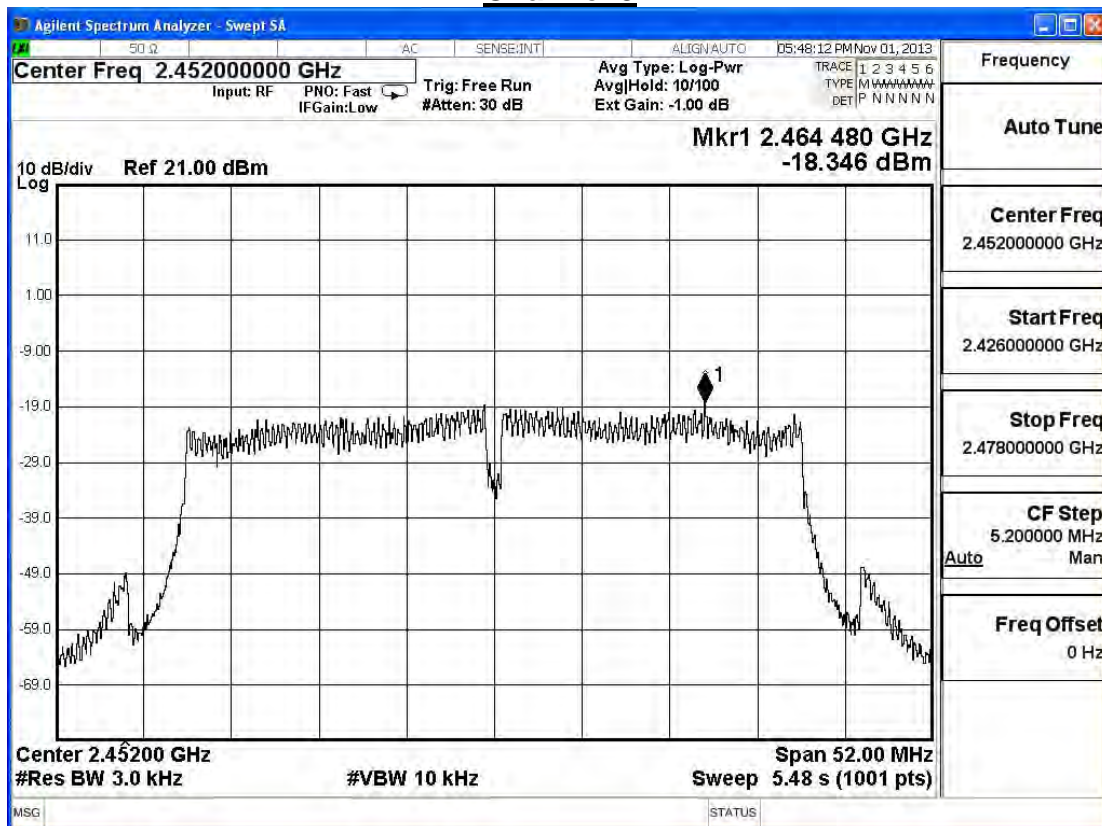
Channel 3



Channel 6



Channel 9



Product	Wireless N VDSL2 VoIP Combo WAN Gigabit IAD		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2013/11/06	Test Site	SR7

IEEE 802.11n(40MHz) (Worse Condition+10log(Ant N))=Ant1				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	-12.88	≤8	Pass
6	2437	-12.71	≤8	Pass
9	2452	-15.33	≤8	Pass