6. Radiated Emission Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

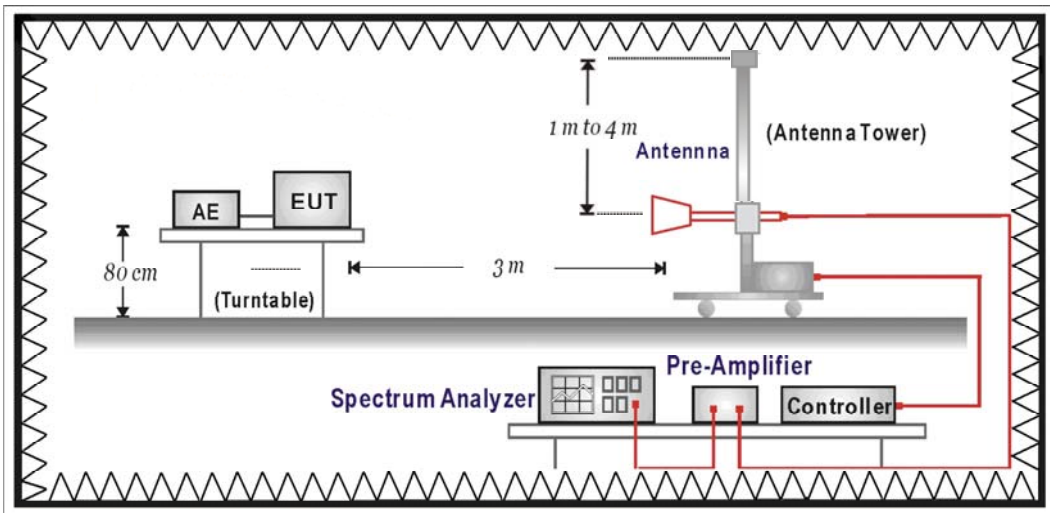
Band Edge / CB1

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

RF Radiated Measurement:



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: 2011

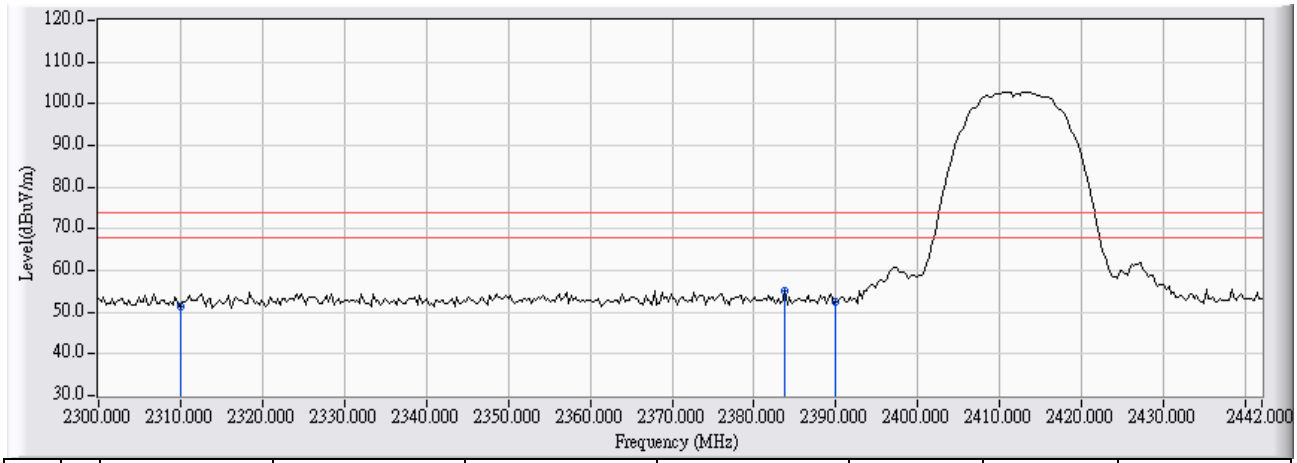
6.6. Uncertainty

The measurement uncertainty
± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : Site1	**Time : 2012/06/06 - 18:37**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11b_CH01**

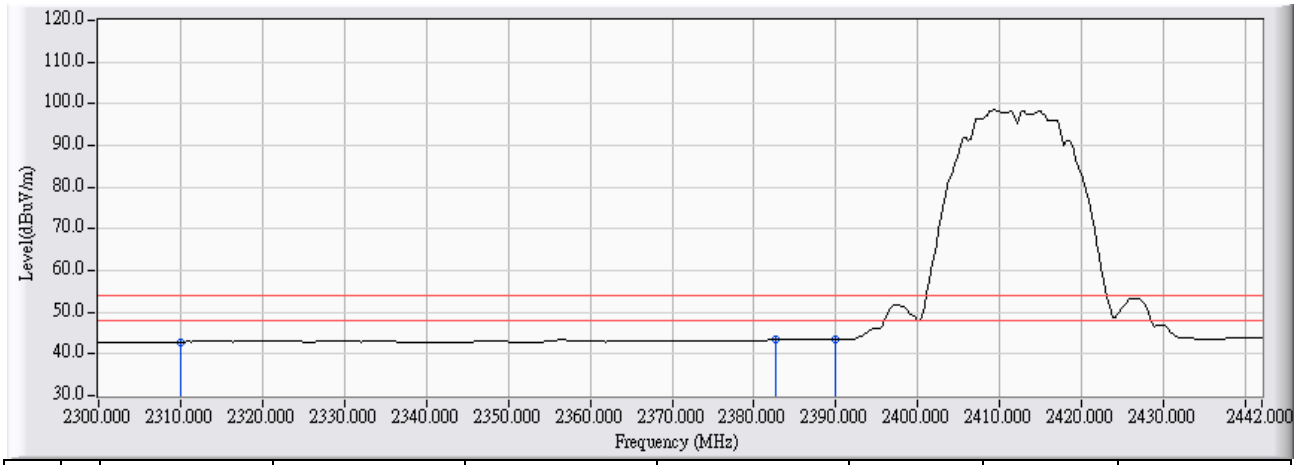


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	21.671	51.450	-22.550	74.000	PEAK
2	*	2383.780	30.516	24.778	55.294	-18.706	74.000	PEAK
3		2390.000	30.578	21.816	52.394	-21.606	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 18:39**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11b_CH01**

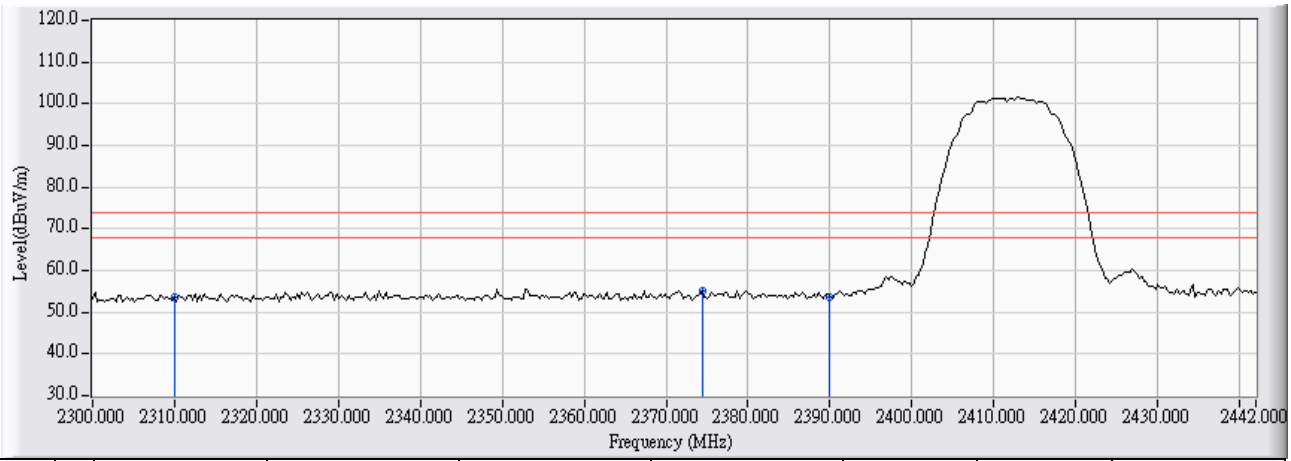


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	13.134	42.913	-11.087	54.000	AVERAGE
2		2382.644	30.504	12.842	43.346	-10.654	54.000	AVERAGE
3	*	2390.000	30.578	12.812	43.390	-10.610	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 18:44**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11b_CH01**

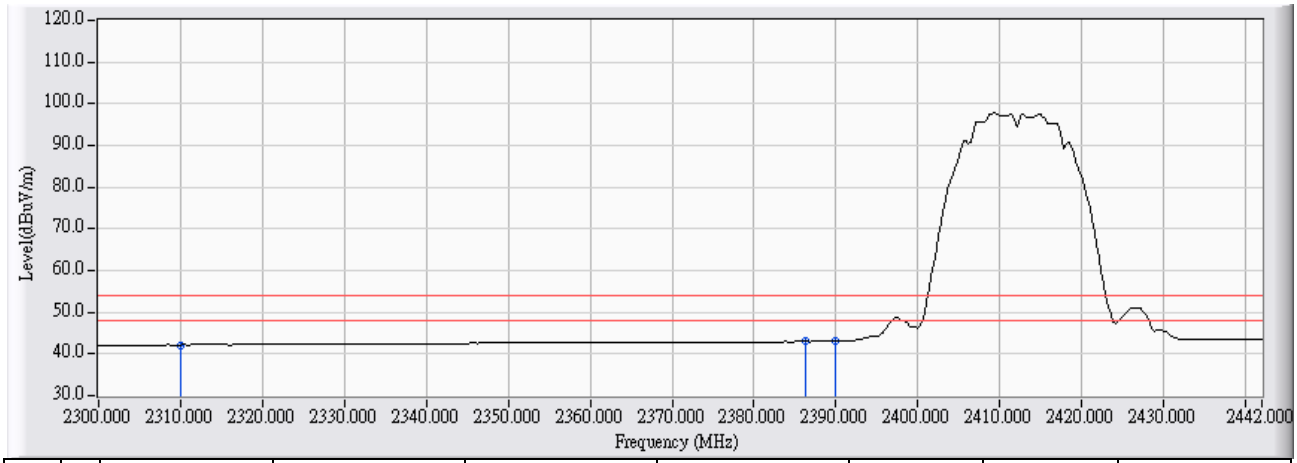


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	23.696	53.475	-20.525	74.000	PEAK
2	*	2374.408	30.423	24.596	55.018	-18.982	74.000	PEAK
3		2390.000	30.578	23.185	53.763	-20.237	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 18:45**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11b_CH01**

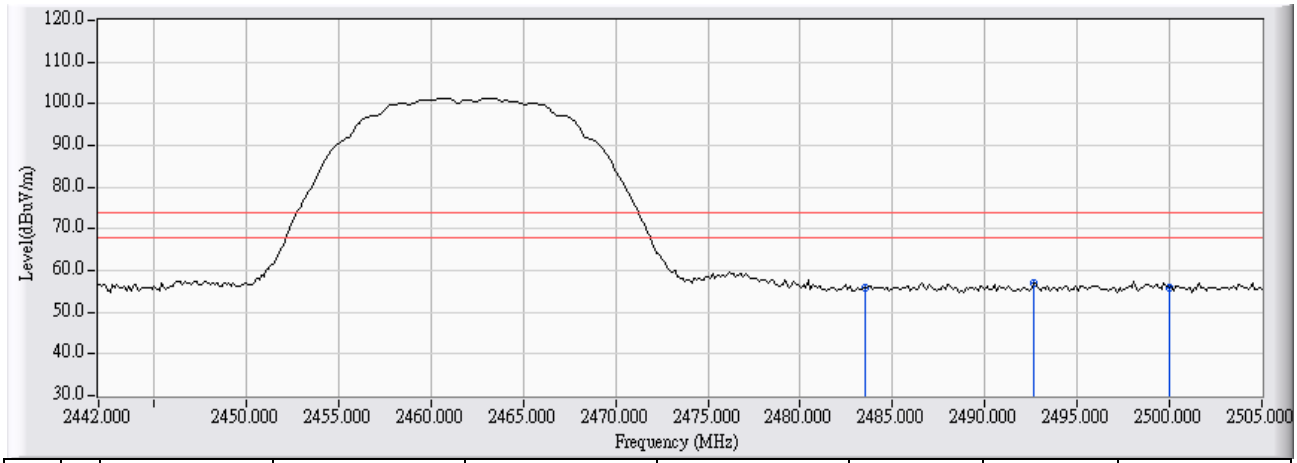


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.401	42.180	-11.820	54.000	AVERAGE
2		2386.336	30.541	12.406	42.947	-11.053	54.000	AVERAGE
3	*	2390.000	30.578	12.445	43.023	-10.977	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 18:48**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11b_CH11**

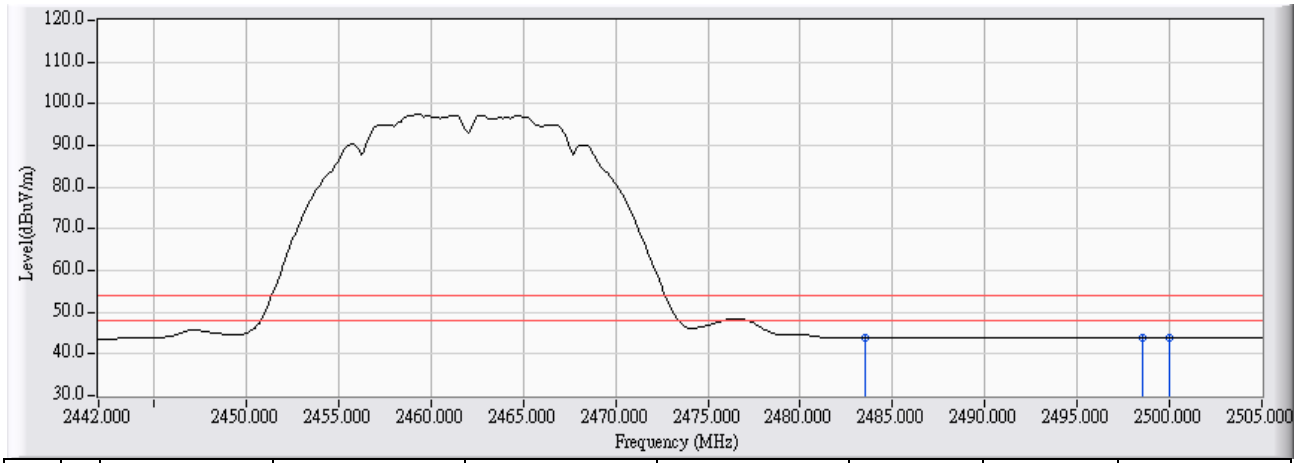


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	24.284	55.796	-18.204	74.000	PEAK
2	*	2492.652	31.603	25.488	57.091	-16.909	74.000	PEAK
3		2500.000	31.638	24.408	56.047	-17.953	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 18:49**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11b_CH11**

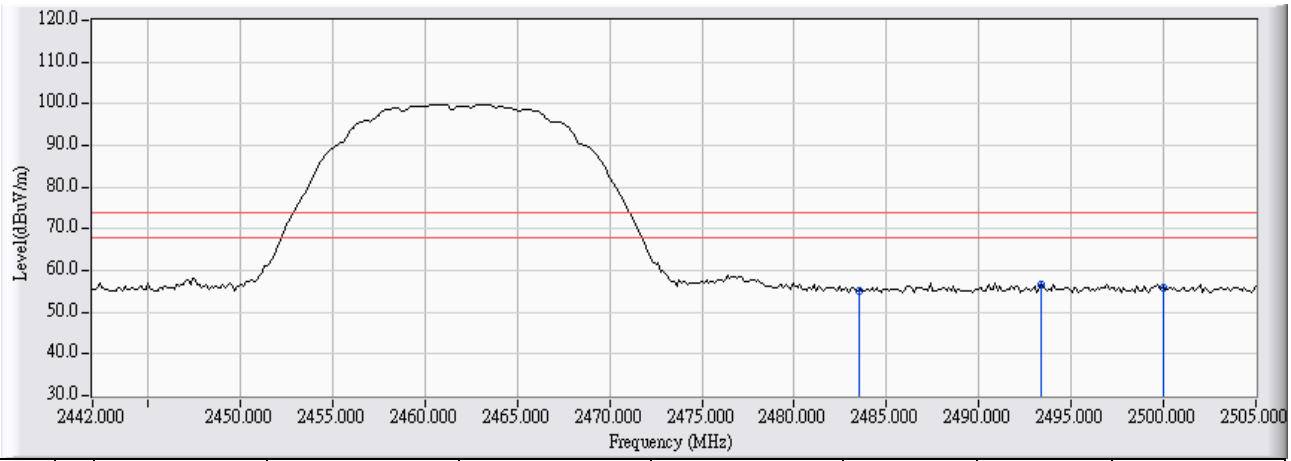


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	12.328	43.840	-10.160	54.000	AVERAGE
2		2498.574	31.638	12.209	43.847	-10.153	54.000	AVERAGE
3	*	2500.000	31.638	12.298	43.937	-10.063	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 18:51**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11b_CH11**

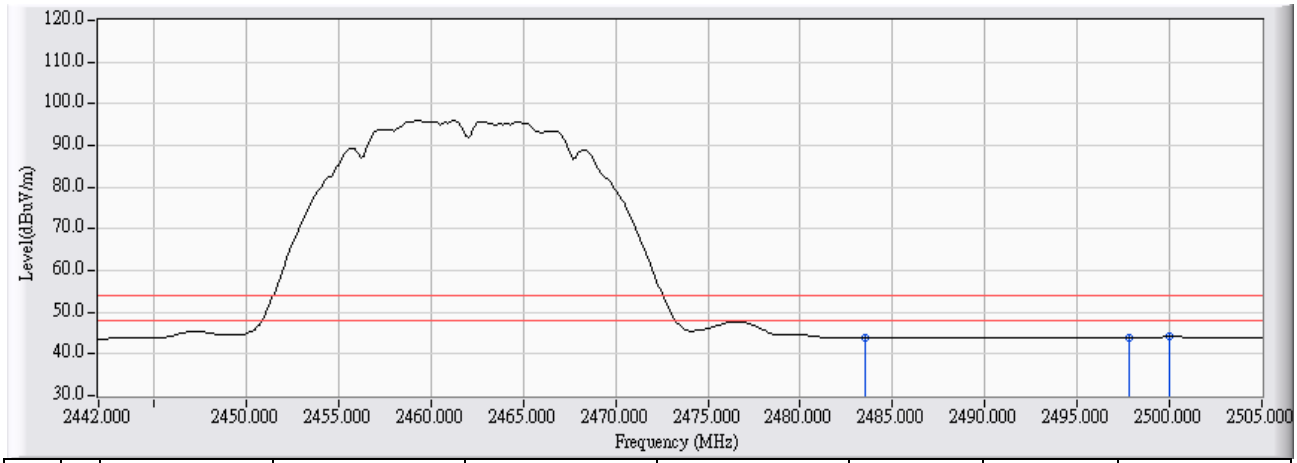


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	23.771	55.283	-18.717	74.000	PEAK
2	*	2493.408	31.610	25.129	56.740	-17.260	74.000	PEAK
3		2500.000	31.638	24.245	55.884	-18.116	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 18:53**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11b_CH11**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	12.376	43.888	-10.112	54.000	AVERAGE
2		2497.818	31.637	12.170	43.808	-10.192	54.000	AVERAGE
3	*	2500.000	31.638	12.641	44.280	-9.720	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.

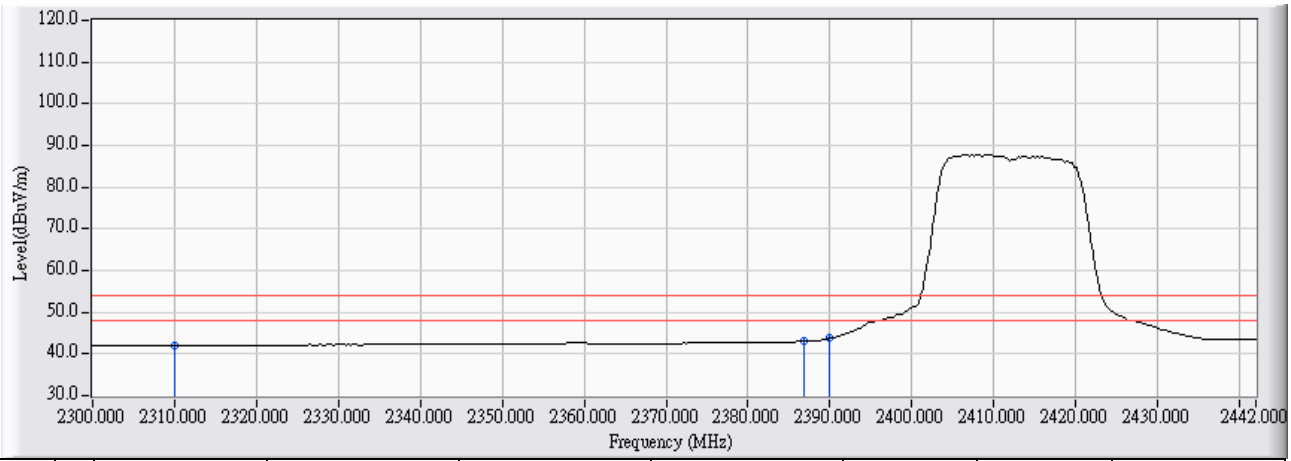
Site : Site1	**Time : 2012/06/06 - 19:02**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11g_CH01**

		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	23.141	52.920	-21.080	74.000	PEAK
2		2387.188	30.550	26.965	57.515	-16.485	74.000	PEAK
3	*	2390.000	30.578	29.272	59.850	-14.150	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 : Site1	**Time : 2012/06/06 - 19:04**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11g_CH01**

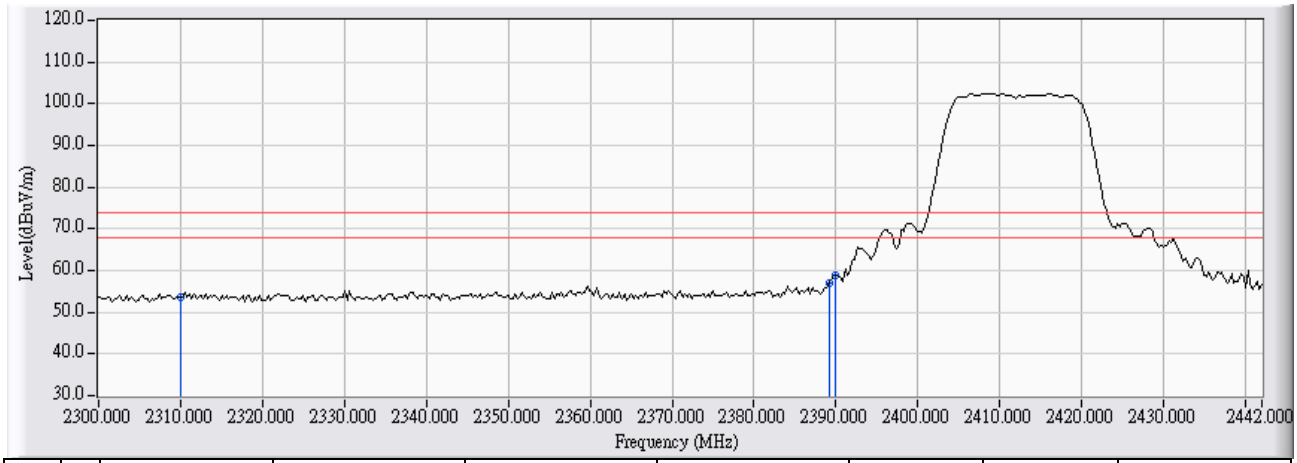


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.189	41.968	-12.032	54.000	AVERAGE
2		2386.904	30.548	12.394	42.941	-11.059	54.000	AVERAGE
3	*	2390.000	30.578	13.177	43.755	-10.245	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:06**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11g_CH01**

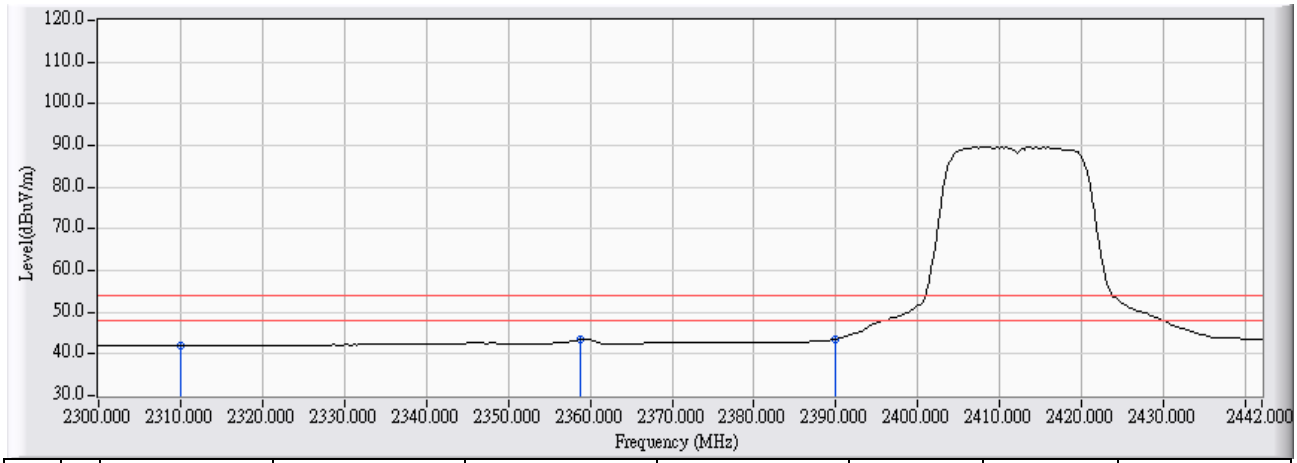


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	23.737	53.516	-20.484	74.000	PEAK
2		2389.176	30.569	26.536	57.106	-16.894	74.000	PEAK
3	*	2390.000	30.578	28.234	58.812	-15.188	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:07**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11g_CH01**

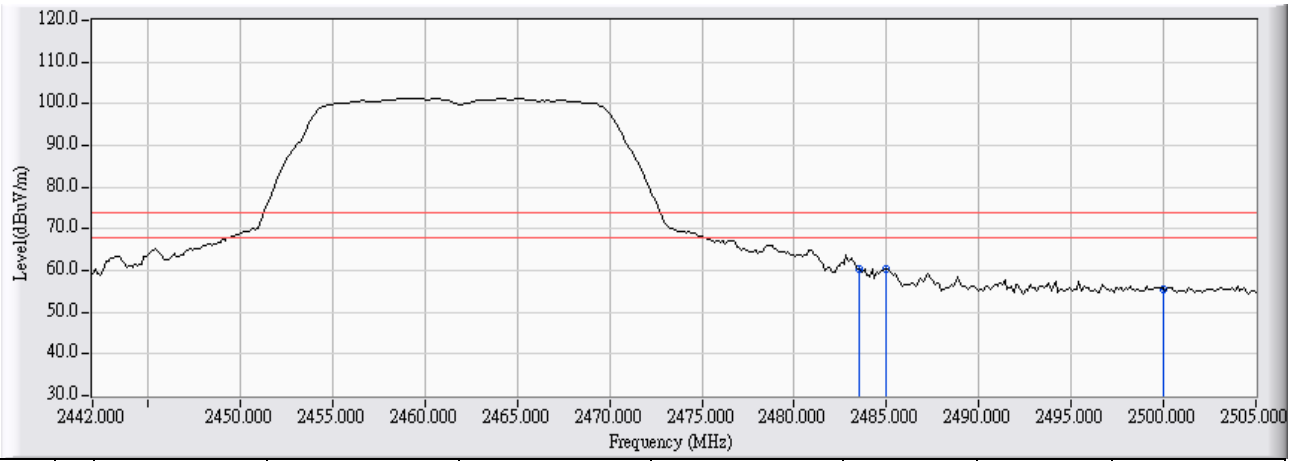


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.213	41.992	-12.008	54.000	AVERAGE
2		2358.788	30.266	13.118	43.384	-10.616	54.000	AVERAGE
3	*	2390.000	30.578	13.018	43.596	-10.404	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:11**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11g_CH11**

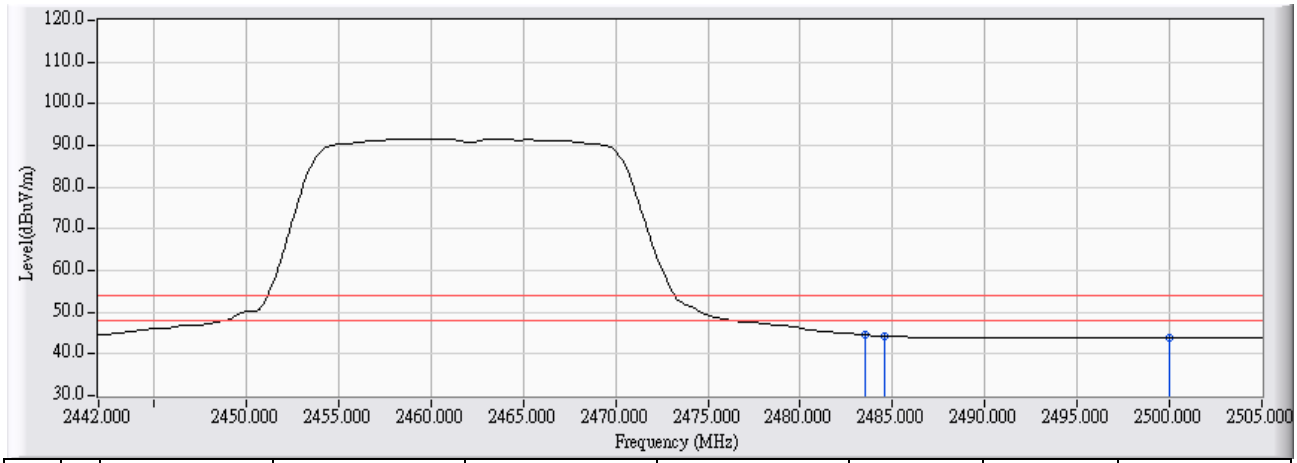


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	28.764	60.276	-13.724	74.000	PEAK
2		2484.966	31.527	28.691	60.217	-13.783	74.000	PEAK
3		2500.000	31.638	23.937	55.576	-18.424	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:12**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11g_CH11**

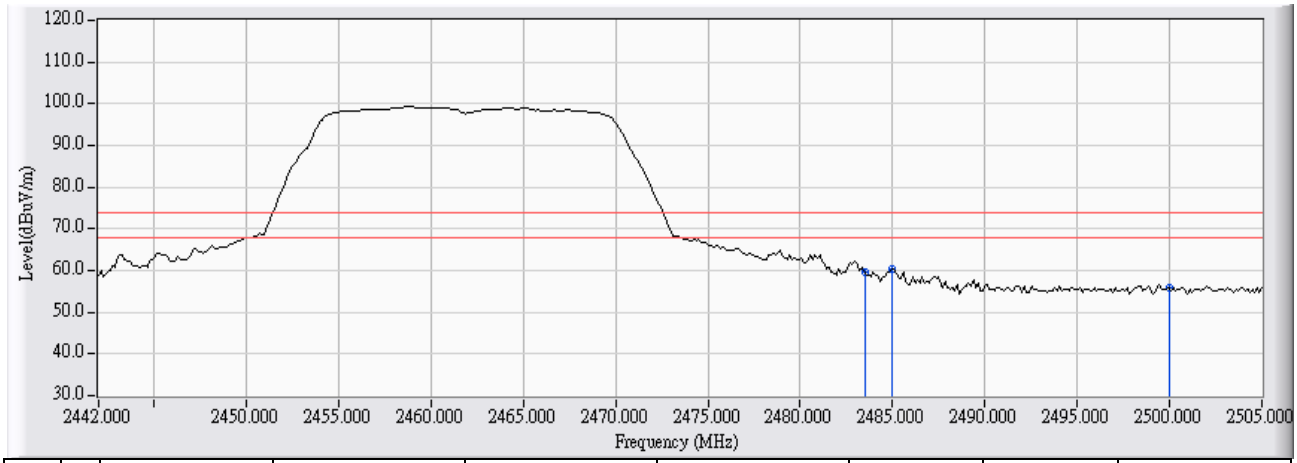


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	13.043	44.555	-9.445	54.000	AVERAGE
2		2484.588	31.523	12.694	44.217	-9.783	54.000	AVERAGE
3		2500.000	31.638	12.231	43.870	-10.130	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:14**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11g_CH11**

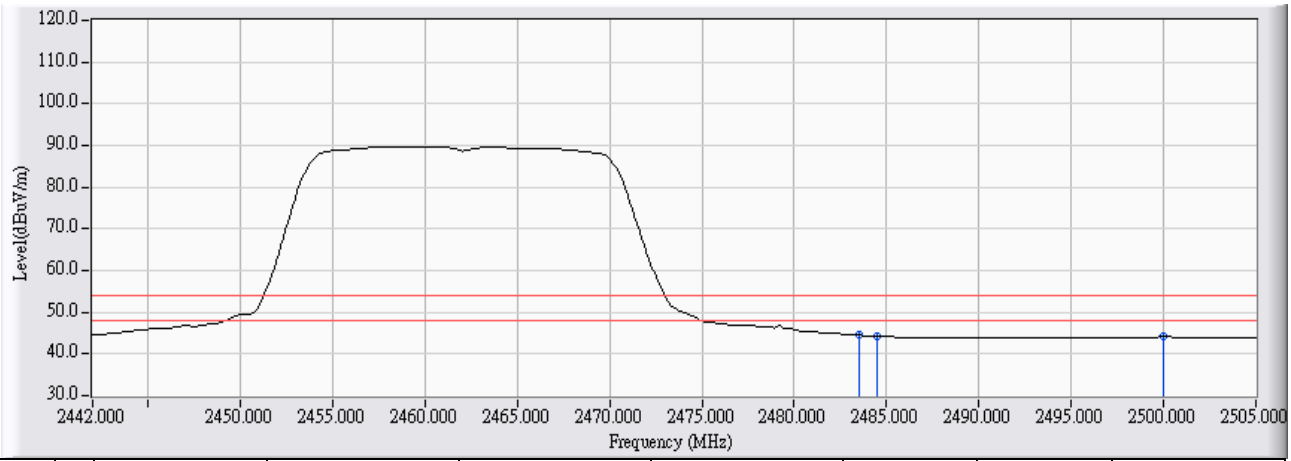


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	28.150	59.662	-14.338	74.000	PEAK
2	*	2484.966	31.527	28.726	60.252	-13.748	74.000	PEAK
3		2500.000	31.638	24.155	55.794	-18.206	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:15**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11g_CH11**

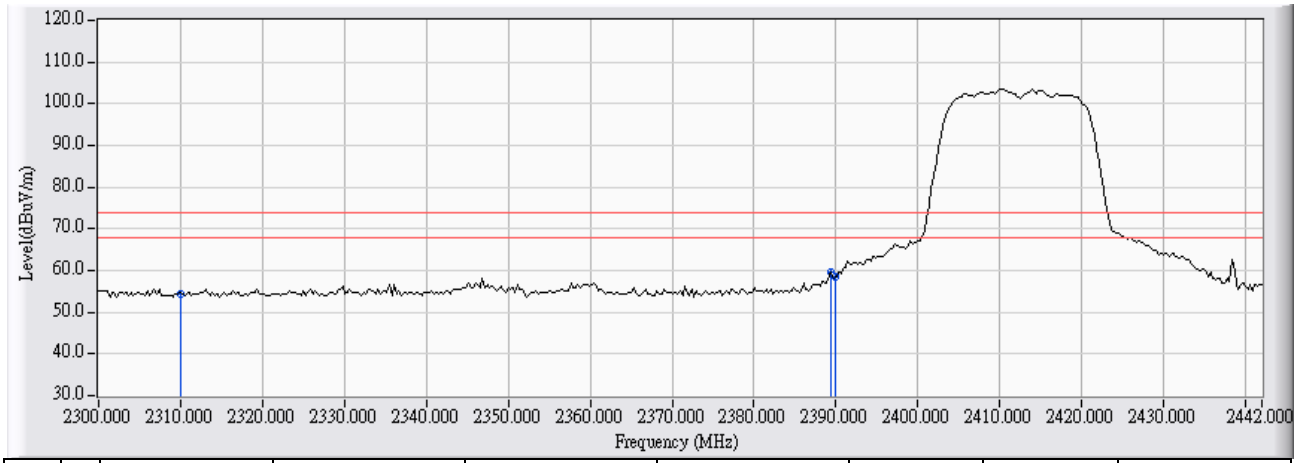


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	12.972	44.484	-9.516	54.000	AVERAGE
2		2484.462	31.521	12.672	44.193	-9.807	54.000	AVERAGE
3		2500.000	31.638	12.517	44.156	-9.844	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:20**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 20MHz _CH01**

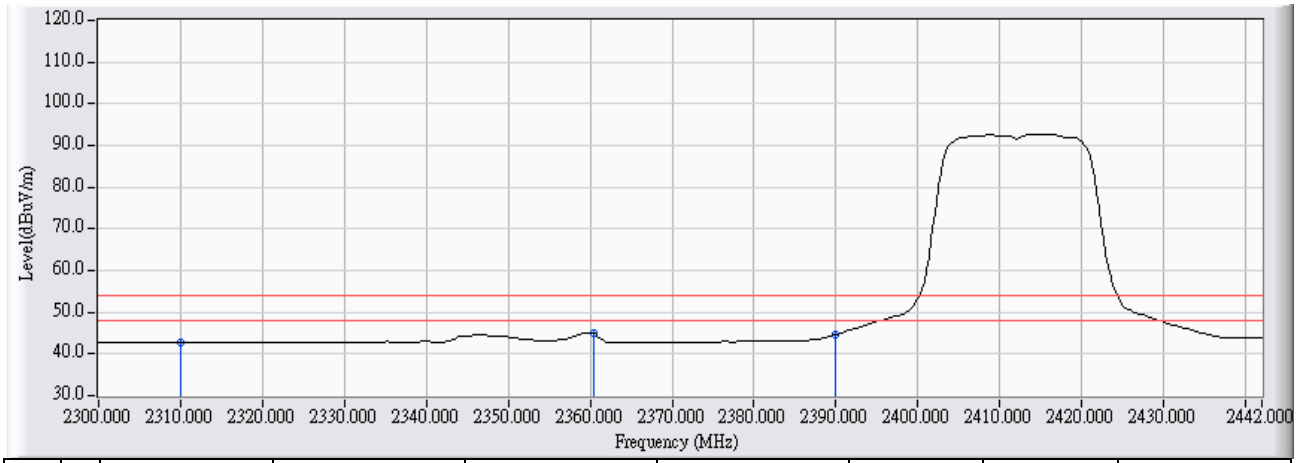


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	24.763	54.542	-19.458	74.000	PEAK
2	*	2389.460	30.573	28.890	59.463	-14.537	74.000	PEAK
3		2390.000	30.578	27.789	58.367	-15.633	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:22**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 20MHz _CH01**

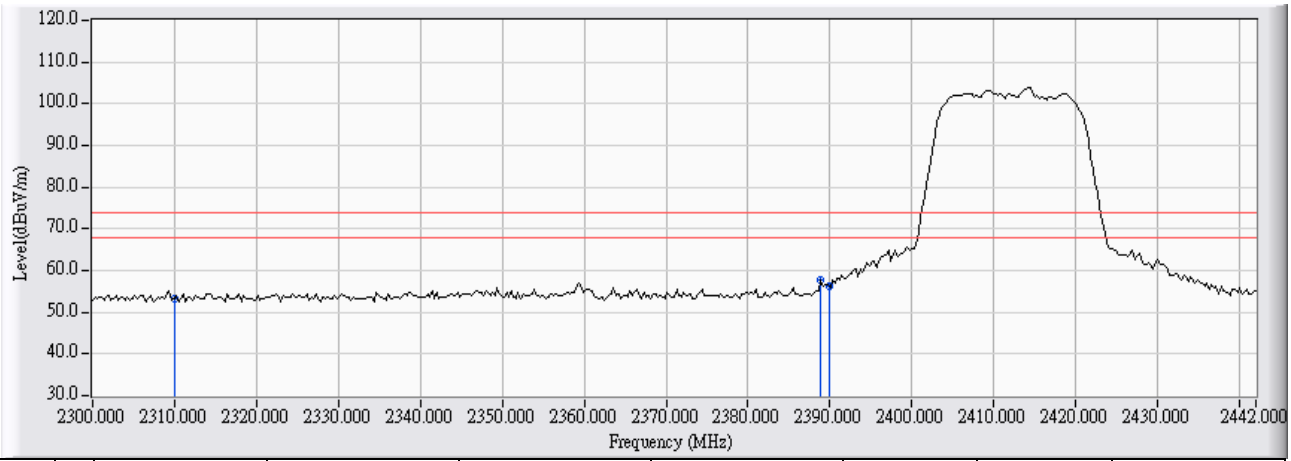


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.853	42.632	-11.368	54.000	AVERAGE
2	*	2360.492	30.284	14.670	44.953	-9.047	54.000	AVERAGE
3		2390.000	30.578	14.080	44.658	-9.342	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:24**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 20MHz _CH01**

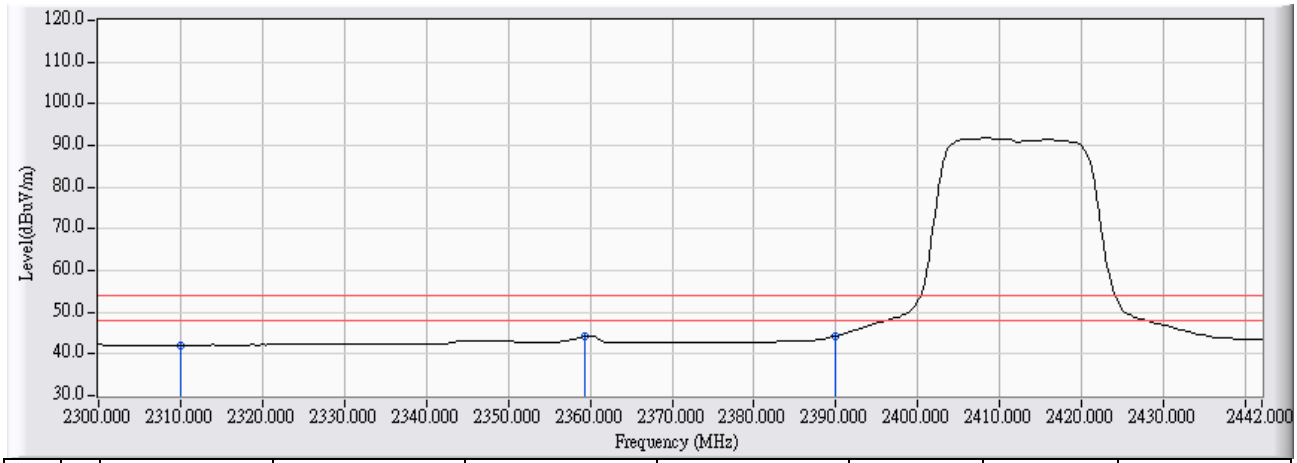


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	23.584	53.363	-20.637	74.000	PEAK
2	*	2388.892	30.567	27.019	57.586	-16.414	74.000	PEAK
3		2390.000	30.578	25.492	56.070	-17.930	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:25**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 20MHz _CH01**

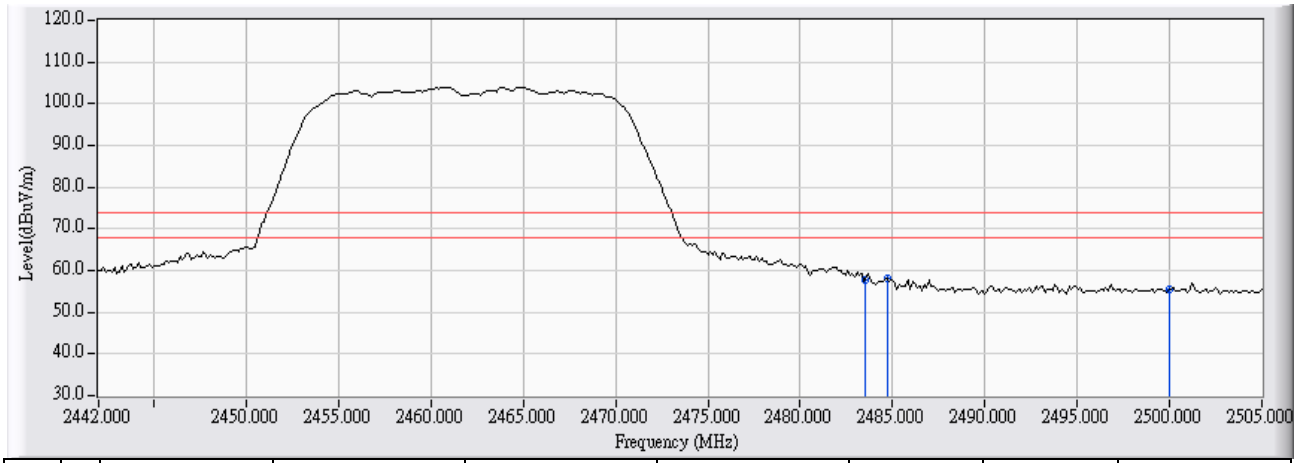


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.362	42.141	-11.859	54.000	AVERAGE
2		2359.356	30.272	13.841	44.113	-9.887	54.000	AVERAGE
3	*	2390.000	30.578	13.721	44.299	-9.701	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:28**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 20MHz _CH11**

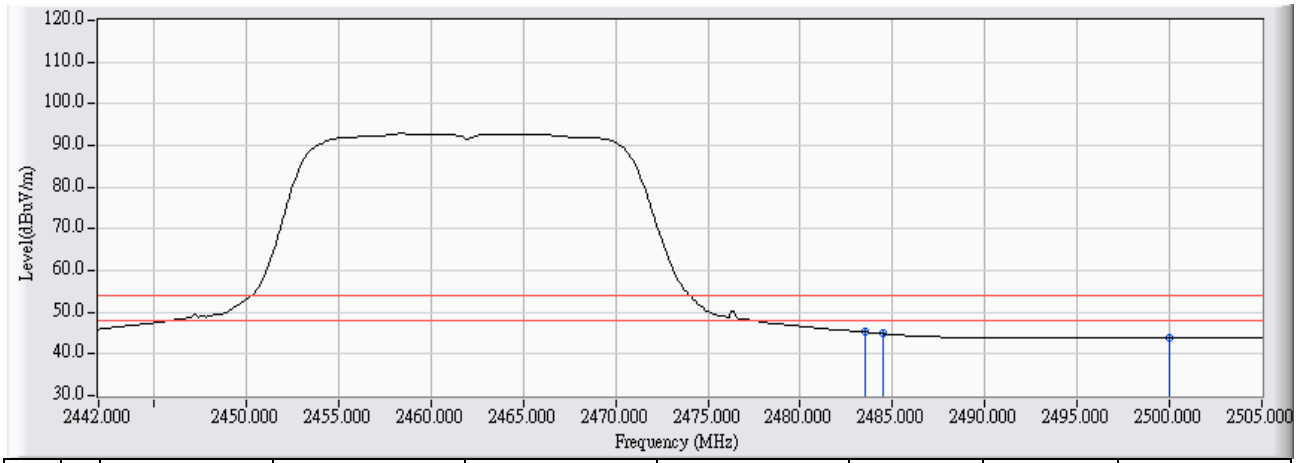


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	26.219	57.731	-16.269	74.000	PEAK
2	*	2484.714	31.524	26.648	58.172	-15.828	74.000	PEAK
3		2500.000	31.638	23.921	55.560	-18.440	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:29**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 20MHz _CH11**

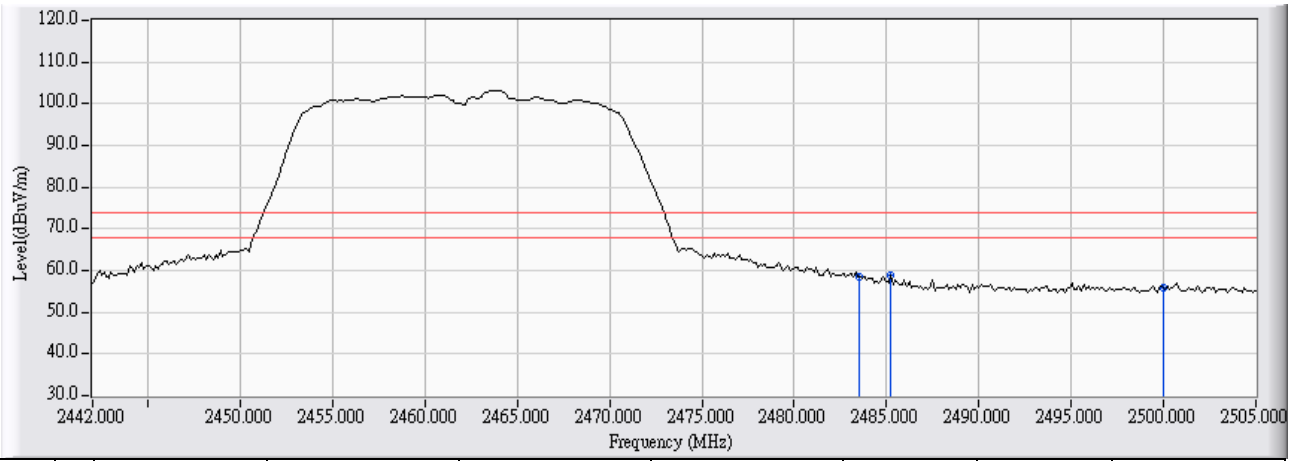


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	13.697	45.209	-8.791	54.000	AVERAGE
2		2484.462	31.521	13.295	44.816	-9.184	54.000	AVERAGE
3		2500.000	31.638	12.329	43.968	-10.032	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:32**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 20MHz _CH11**

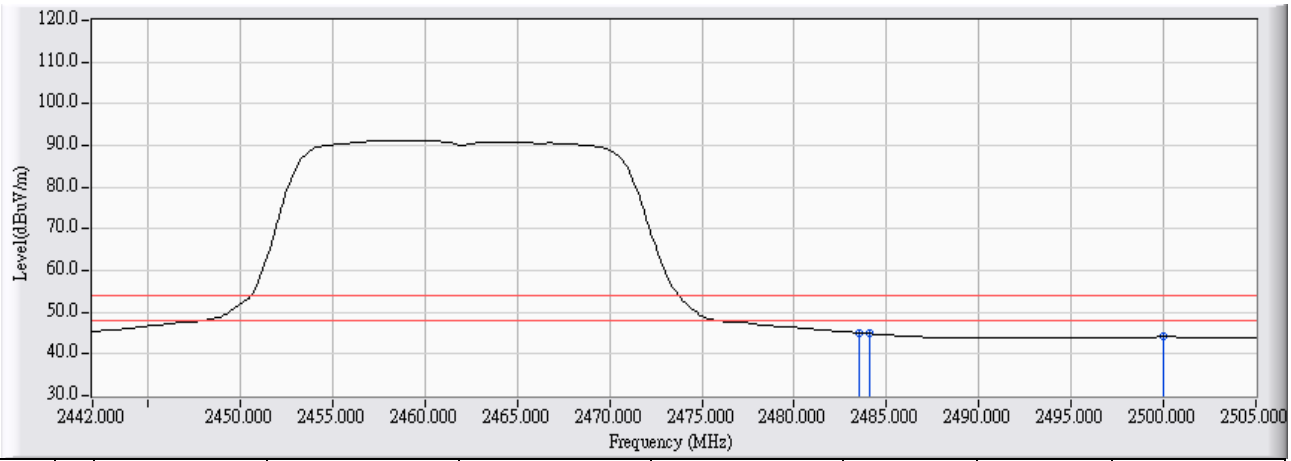


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	27.112	58.624	-15.376	74.000	PEAK
2	*	2485.218	31.529	27.253	58.782	-15.218	74.000	PEAK
3		2500.000	31.638	24.189	55.828	-18.172	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:33**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 20MHz _CH11**

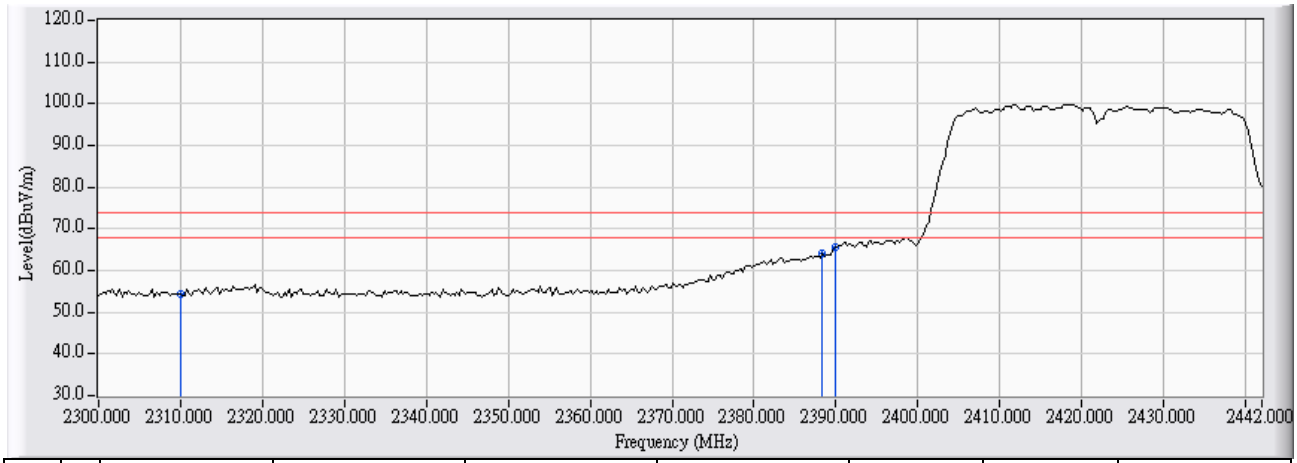


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	13.555	45.067	-8.933	54.000	AVERAGE
2		2484.084	31.518	13.316	44.834	-9.166	54.000	AVERAGE
3		2500.000	31.638	12.578	44.217	-9.783	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:44**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 40MHz _CH03**

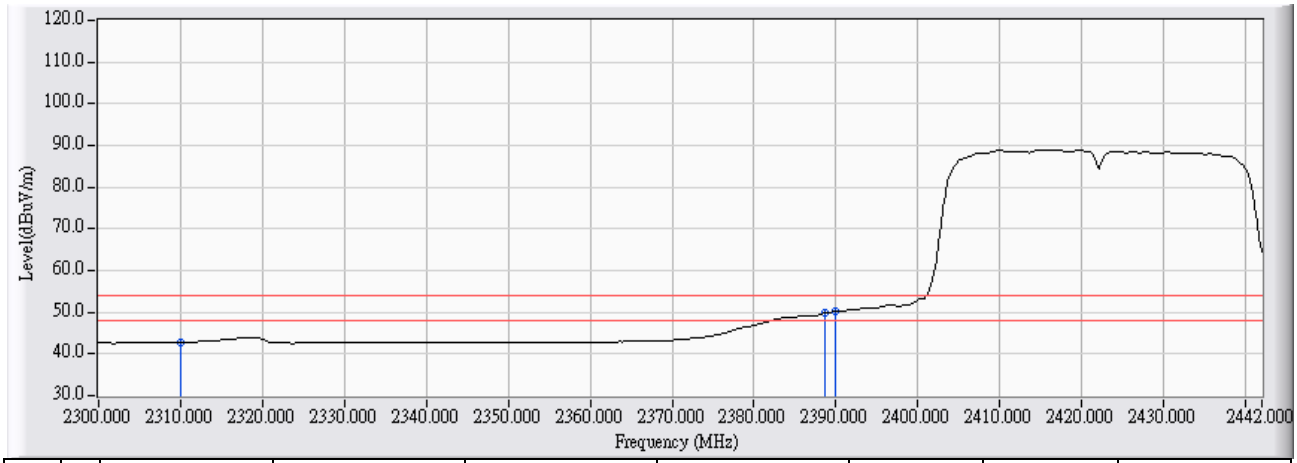


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	24.462	54.241	-19.759	74.000	PEAK
2		2388.324	30.562	33.594	64.155	-9.845	74.000	PEAK
3	*	2390.000	30.578	34.864	65.442	-8.558	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:45**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 40MHz _CH03**

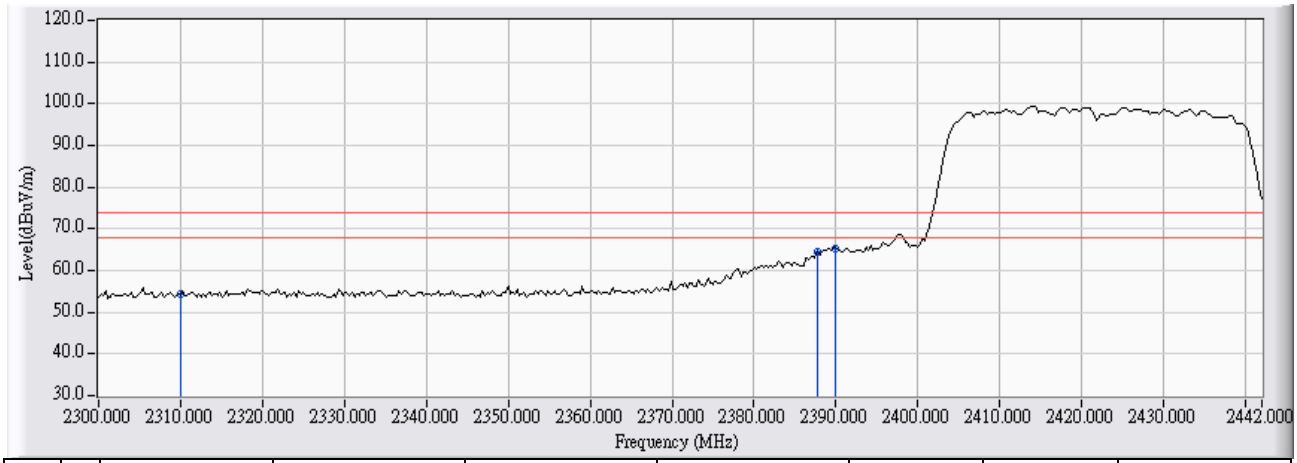


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.957	42.736	-11.264	54.000	AVERAGE
2		2388.608	30.564	19.149	49.713	-4.287	54.000	AVERAGE
3	*	2390.000	30.578	19.551	50.129	-3.871	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 19:50**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 40MHz _CH03**

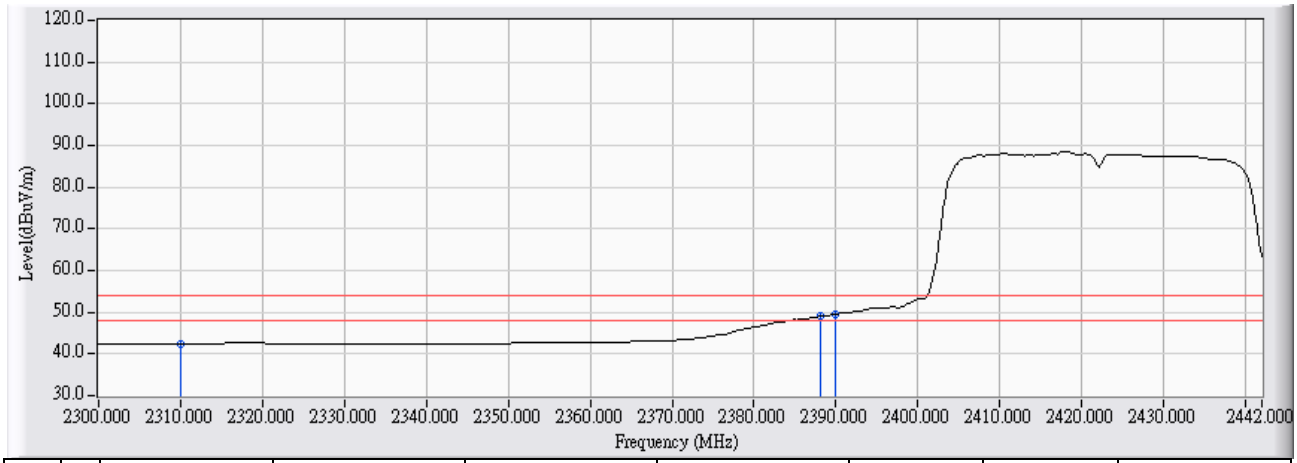


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	24.476	54.255	-19.745	74.000	PEAK
2		2387.756	30.555	33.791	64.347	-9.653	74.000	PEAK
3	*	2390.000	30.578	34.720	65.298	-8.702	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 19:57**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 40MHz _CH03**

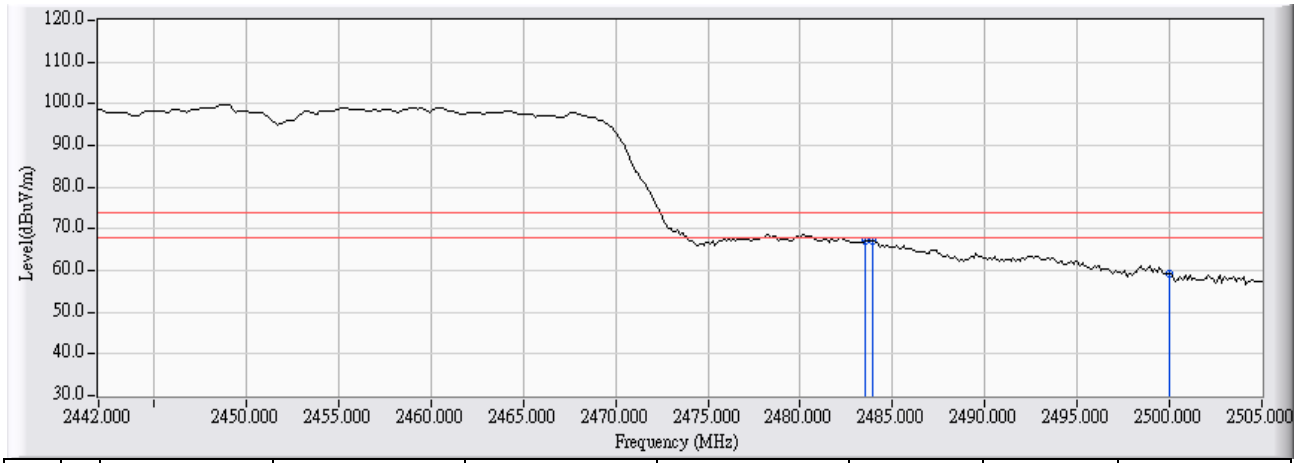


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.487	42.266	-11.734	54.000	AVERAGE
2		2388.040	30.558	18.491	49.049	-4.951	54.000	AVERAGE
3	*	2390.000	30.578	18.867	49.445	-4.555	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 20:00**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 40MHz _CH09**

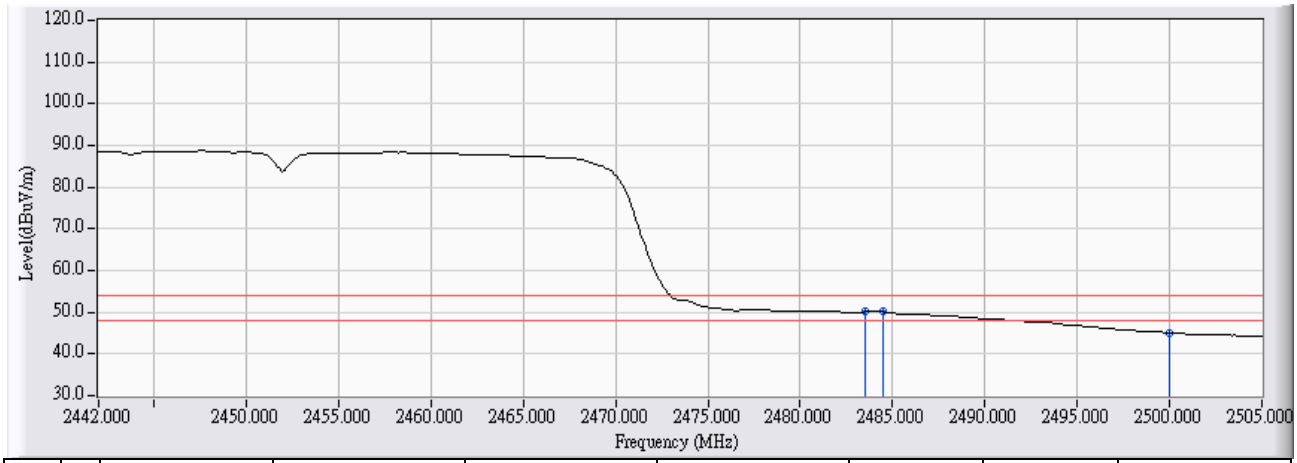


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	35.478	66.990	-7.010	74.000	PEAK
2	*	2483.958	31.516	35.666	67.182	-6.818	74.000	PEAK
3		2500.000	31.638	27.659	59.298	-14.702	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 20:01**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 40MHz _CH09**

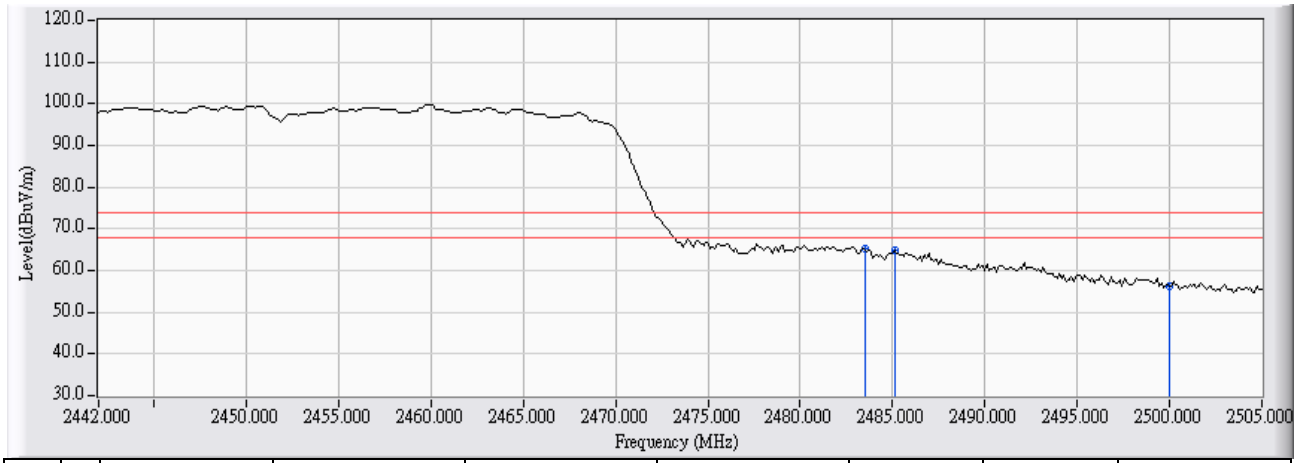


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	18.555	50.067	-3.933	54.000	AVERAGE
2	*	2484.462	31.521	18.563	50.084	-3.916	54.000	AVERAGE
3		2500.000	31.638	13.405	45.044	-8.956	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 20:03**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 40MHz _CH09**

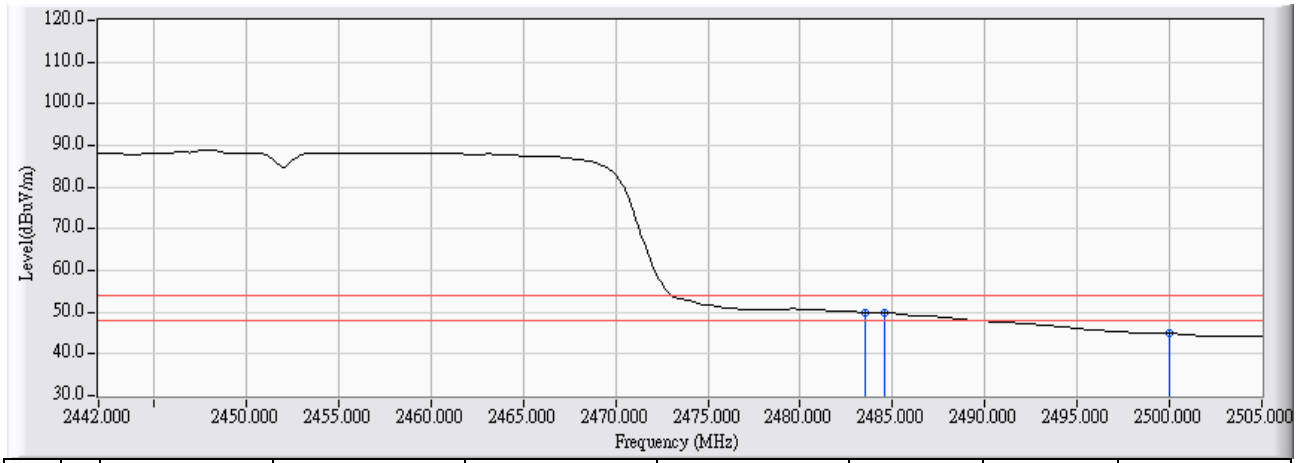


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	33.562	65.074	-8.926	74.000	PEAK
2		2485.092	31.528	33.302	64.830	-9.170	74.000	PEAK
3		2500.000	31.638	24.617	56.256	-17.744	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 20:05**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)802.11n 40MHz _CH09**

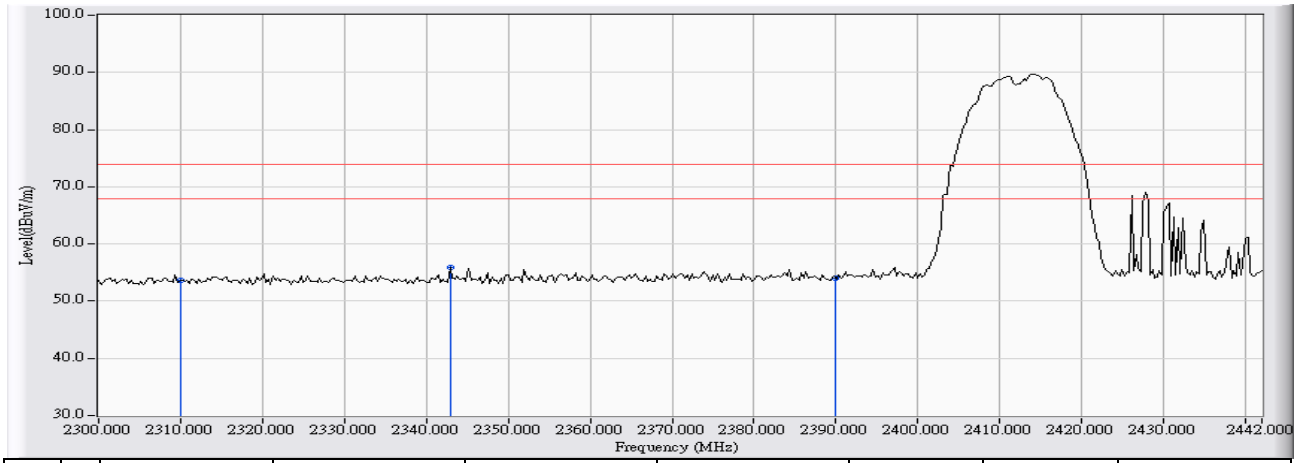


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	18.497	50.009	-3.991	54.000	AVERAGE
2		2484.588	31.523	18.454	49.977	-4.023	54.000	AVERAGE
3		2500.000	31.638	13.320	44.959	-9.041	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 14:57**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11b_CH01**

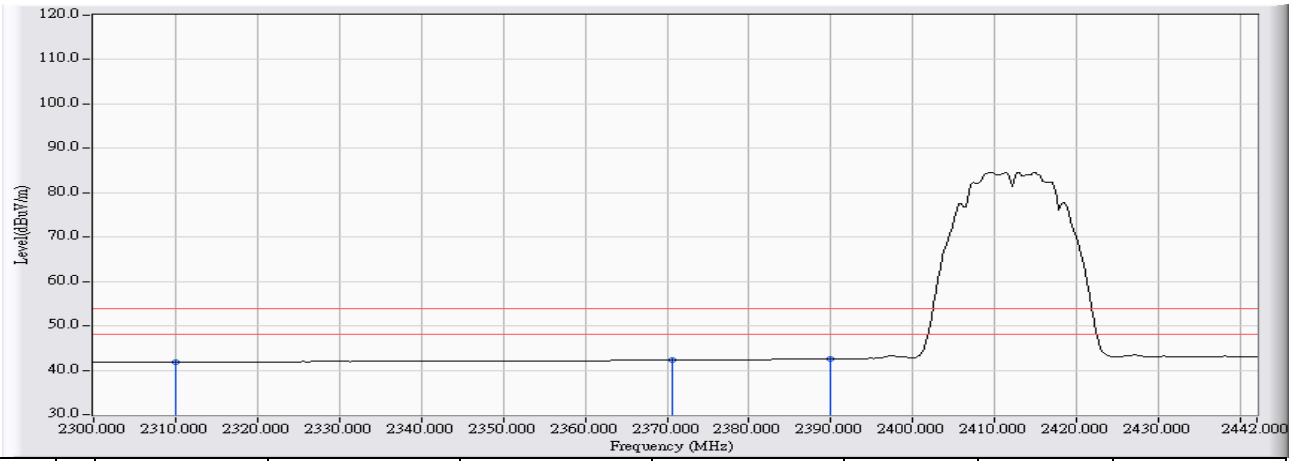


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	23.796	53.575	-20.425	74.000	PEAK
2	*	2342.884	30.108	25.789	55.896	-18.104	74.000	PEAK
3		2390.000	30.578	23.368	53.946	-20.054	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 14:59**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)802.11b_CH01**

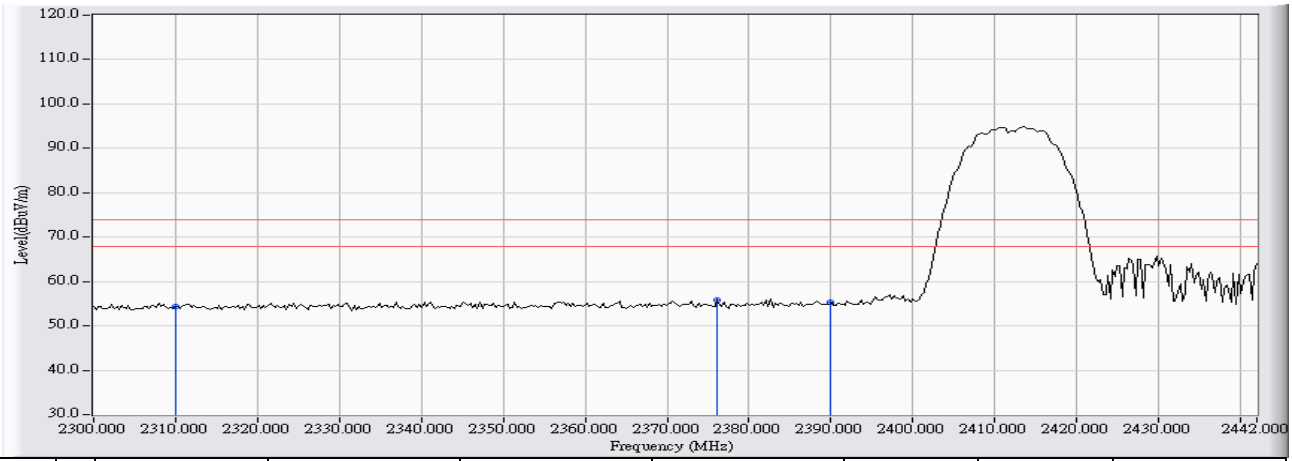


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.017	41.796	-12.204	54.000	AVERAGE
2		2370.716	30.386	11.904	42.289	-11.711	54.000	AVERAGE
3	*	2390.000	30.578	11.898	42.476	-11.524	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 15:02**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)802.11b_CH01**

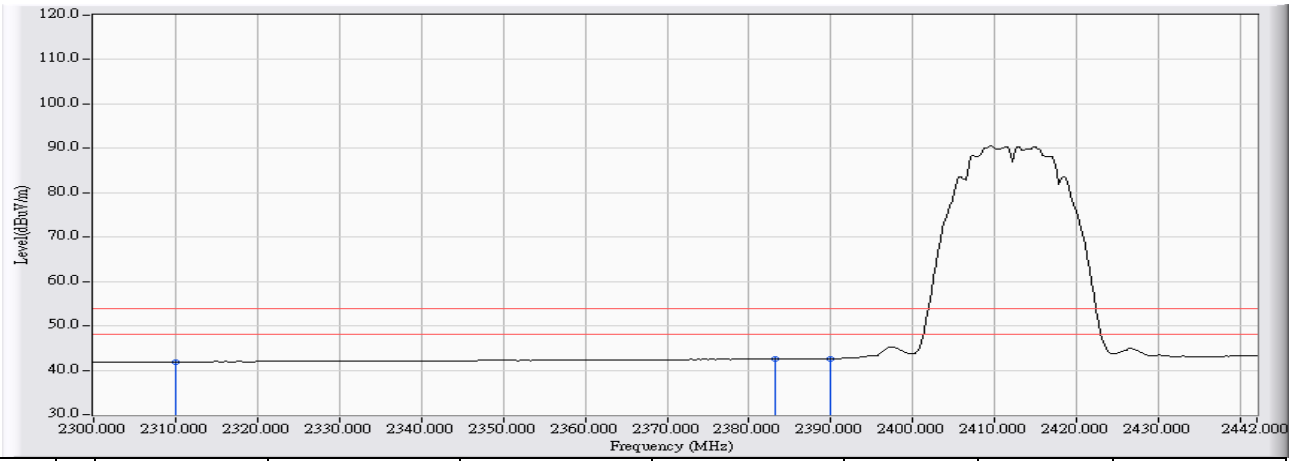


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	24.554	54.333	-19.667	74.000	PEAK
2	*	2376.112	30.439	25.478	55.917	-18.083	74.000	PEAK
3		2390.000	30.578	24.694	55.272	-18.728	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 15:04**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11b_CH01**

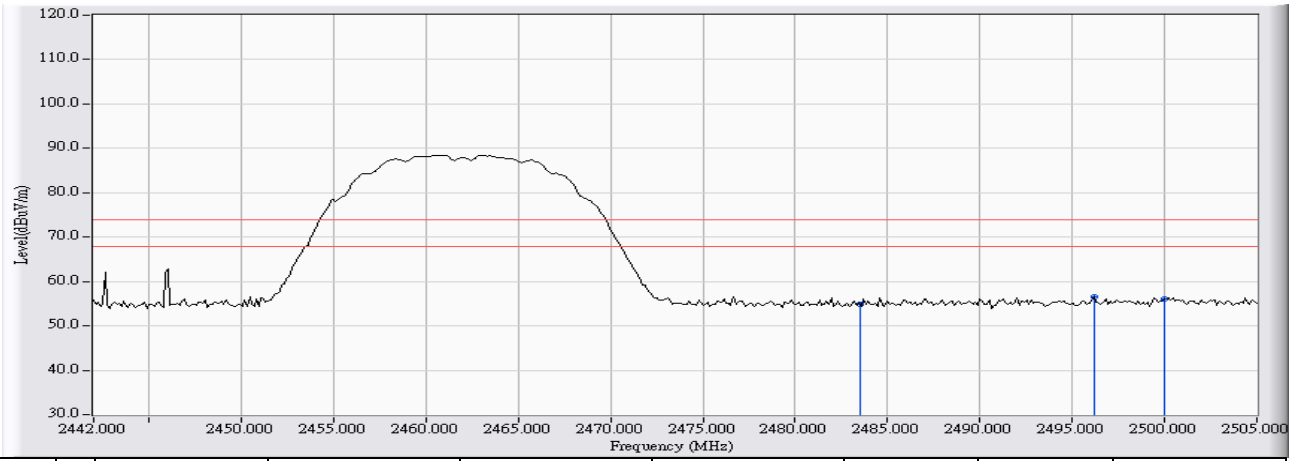


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.138	41.917	-12.083	54.000	AVERAGE
2		2383.212	30.511	12.067	42.577	-11.423	54.000	AVERAGE
3	*	2390.000	30.578	12.043	42.621	-11.379	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 15:08**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11b_CH11**

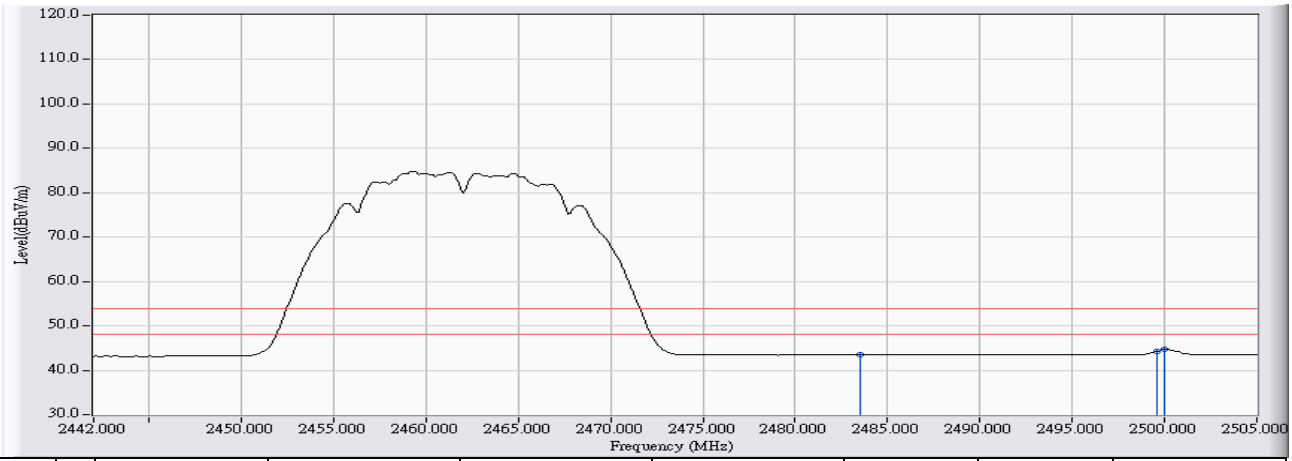


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	23.460	54.972	-19.028	74.000	PEAK
2	*	2496.180	31.637	24.883	56.520	-17.480	74.000	PEAK
3		2500.000	31.638	24.484	56.123	-17.877	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 15:11**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11b_CH11**

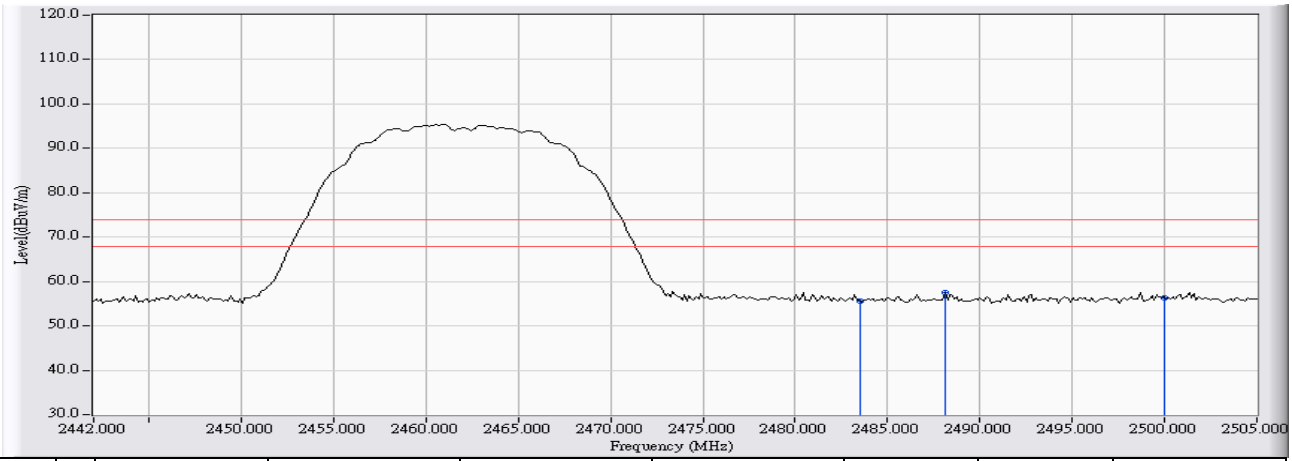


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	11.926	43.438	-10.562	54.000	AVERAGE
2		2499.582	31.639	12.605	44.244	-9.756	54.000	AVERAGE
3	*	2500.000	31.638	13.034	44.673	-9.327	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 15:16**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11b_CH11**

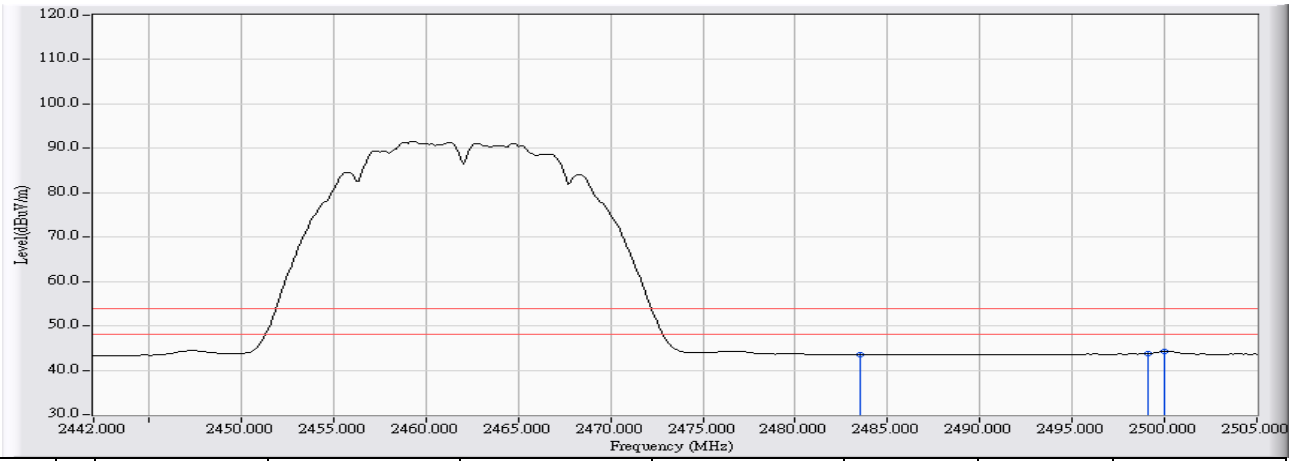


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	24.119	55.631	-18.369	74.000	PEAK
2	*	2488.116	31.558	25.854	57.412	-16.588	74.000	PEAK
3		2500.000	31.638	24.767	56.406	-17.594	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 15:19**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11b_CH11**

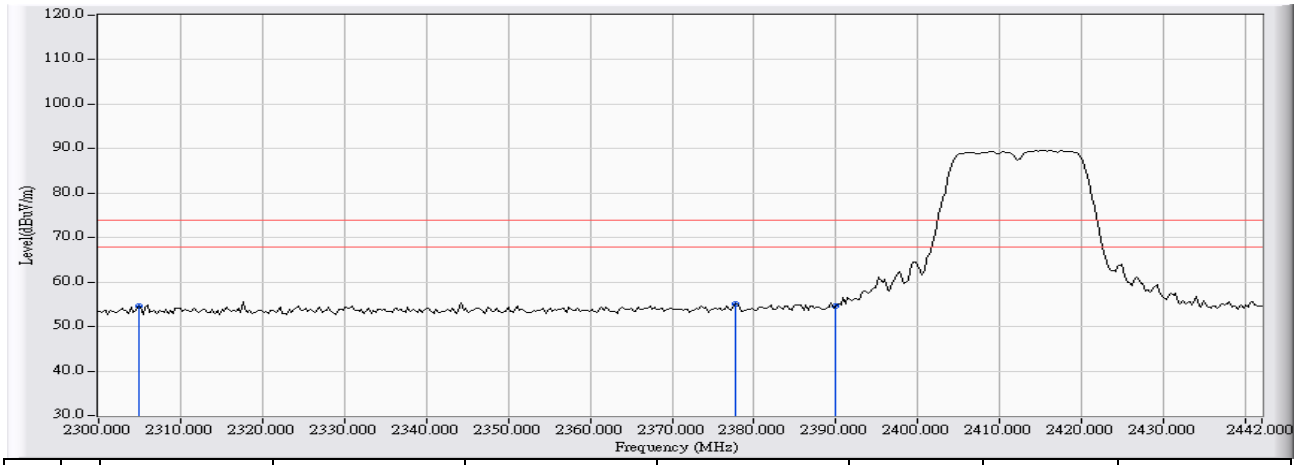


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	12.056	43.568	-10.432	54.000	AVERAGE
2		2499.078	31.638	12.068	43.706	-10.294	54.000	AVERAGE
3	*	2500.000	31.638	12.571	44.210	-9.790	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 15:22**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11g_CH01**

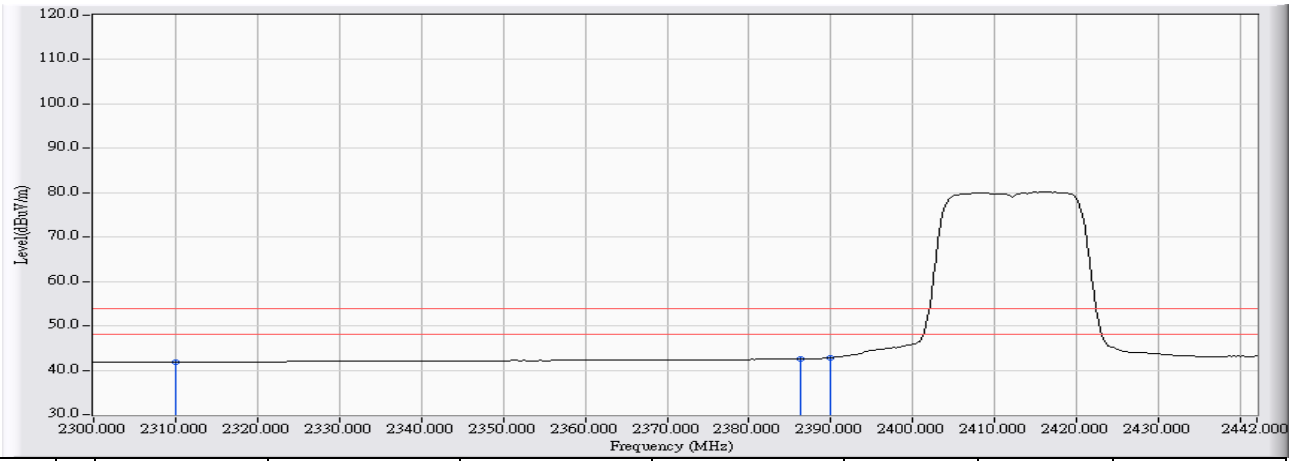


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2305.000	29.729	24.839	54.568	-19.432	74.000	PEAK
2	*	2377.816	30.456	24.676	55.132	-18.868	74.000	PEAK
3		2390.000	30.578	24.109	54.687	-19.313	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 15:24**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11g_CH01**

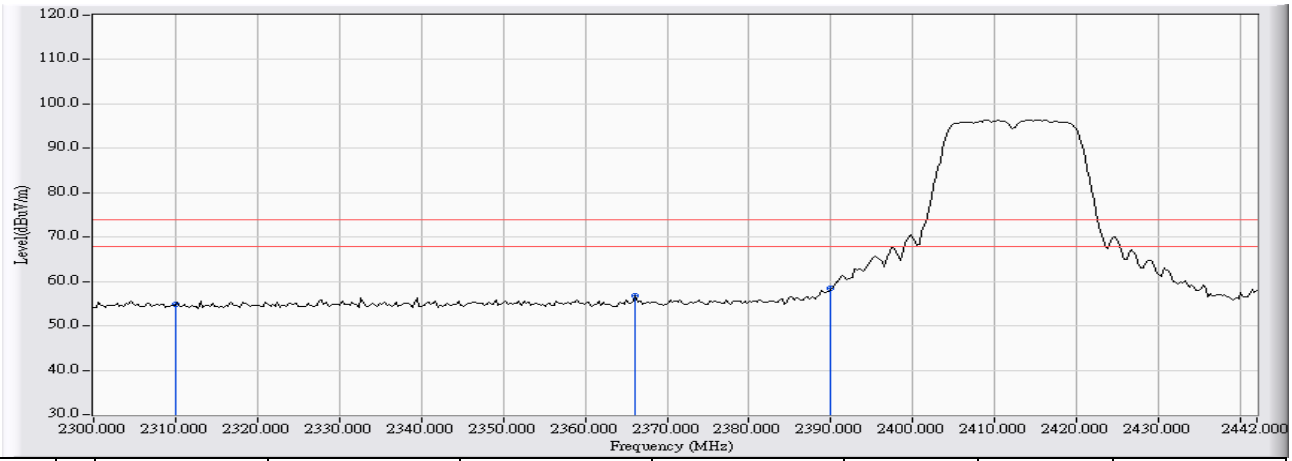


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.060	41.839	-12.161	54.000	AVERAGE
2		2386.336	30.541	12.041	42.582	-11.418	54.000	AVERAGE
3	*	2390.000	30.578	12.222	42.800	-11.200	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 15:30**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11g_CH01**

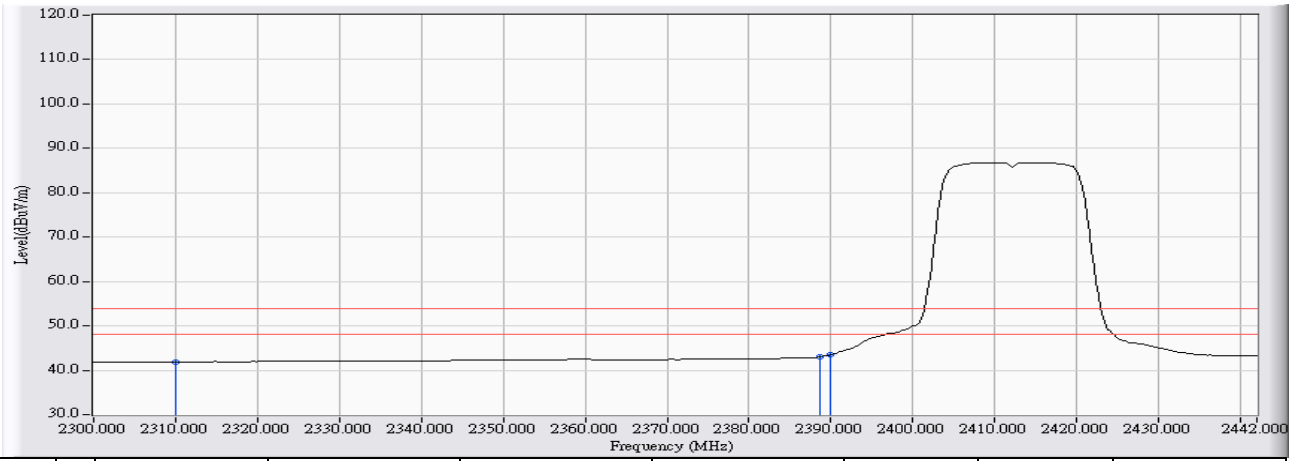


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	25.013	54.792	-19.208	74.000	PEAK
2		2366.172	30.340	26.460	56.800	-17.200	74.000	PEAK
3	*	2390.000	30.578	27.846	58.424	-15.576	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 15:32**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11g_CH01**

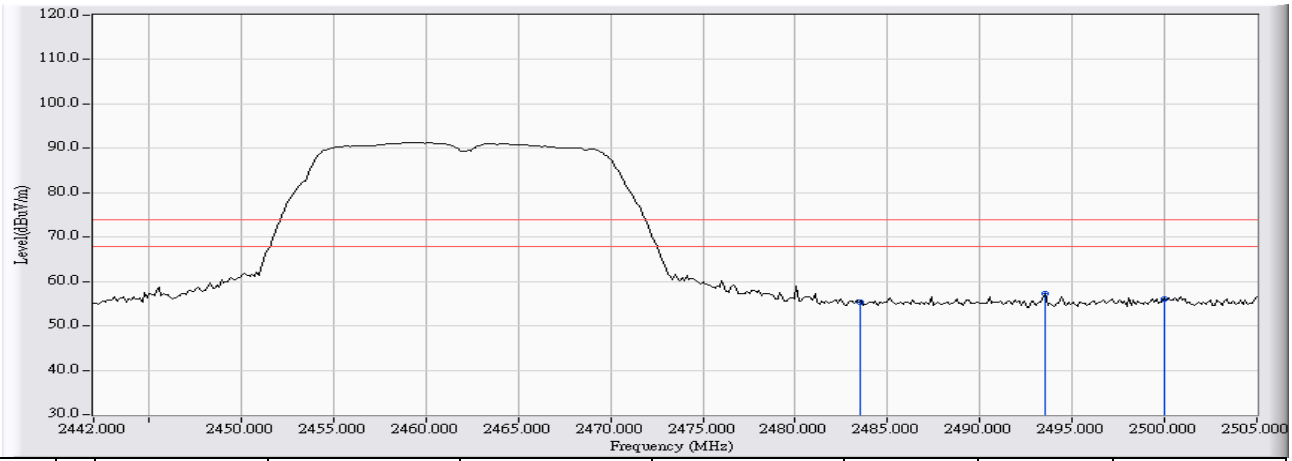


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.108	41.887	-12.113	54.000	AVERAGE
2		2388.608	30.564	12.402	42.966	-11.034	54.000	AVERAGE
3	*	2390.000	30.578	12.919	43.497	-10.503	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 15:36**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11g_CH11**

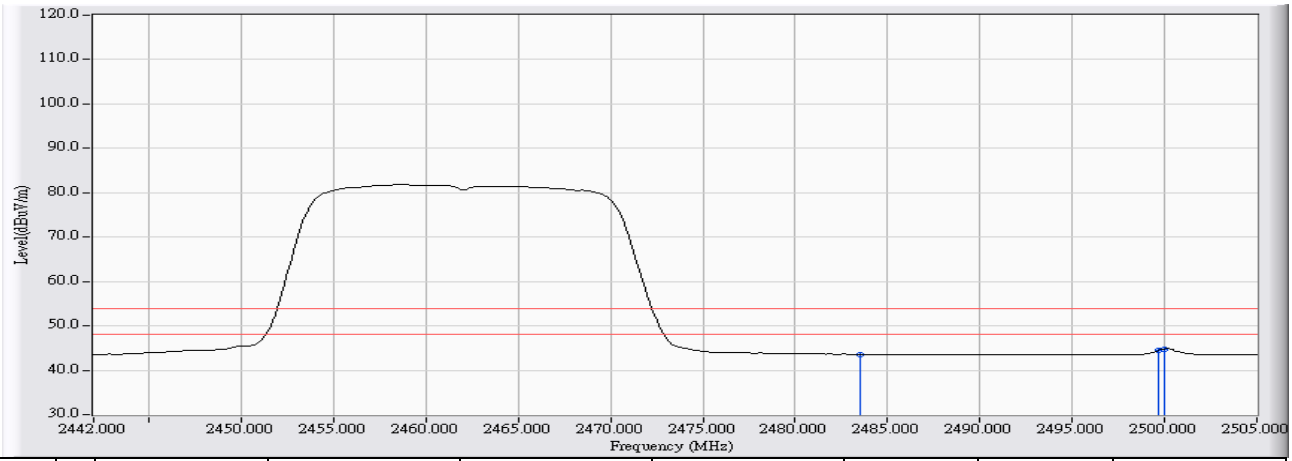


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	23.931	55.443	-18.557	74.000	PEAK
2	*	2493.534	31.613	25.766	57.378	-16.622	74.000	PEAK
3		2500.000	31.638	24.475	56.114	-17.886	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 15:38**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11g_CH11**

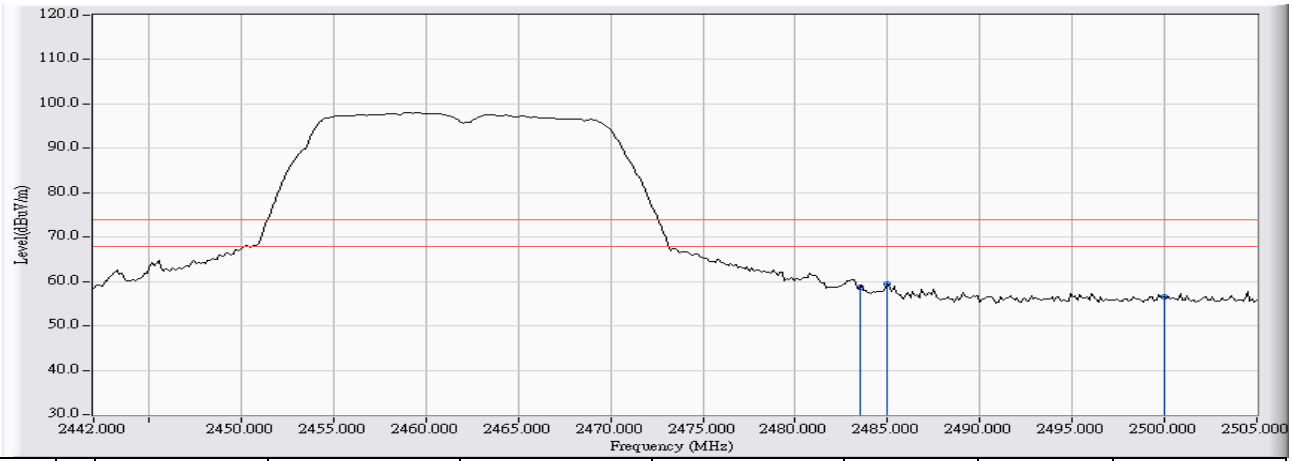


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	12.064	43.576	-10.424	54.000	AVERAGE
2		2499.708	31.639	12.776	44.415	-9.585	54.000	AVERAGE
3	*	2500.000	31.638	13.153	44.792	-9.208	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 15:41**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11g_CH11**

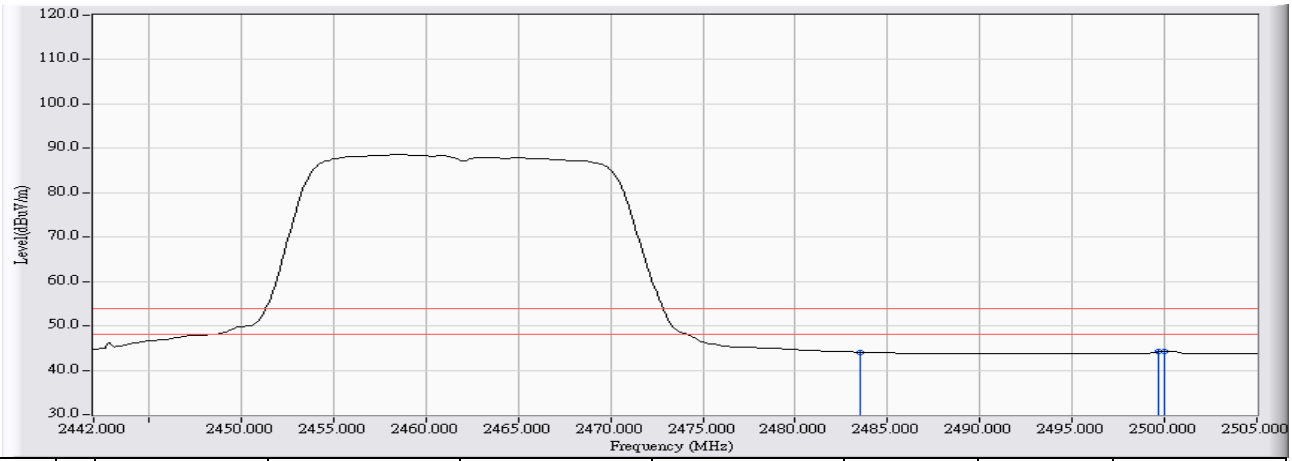


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	27.106	58.618	-15.382	74.000	PEAK
2	*	2484.966	31.527	27.839	59.365	-14.635	74.000	PEAK
3		2500.000	31.638	24.792	56.431	-17.569	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 15:43**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11g_CH11**

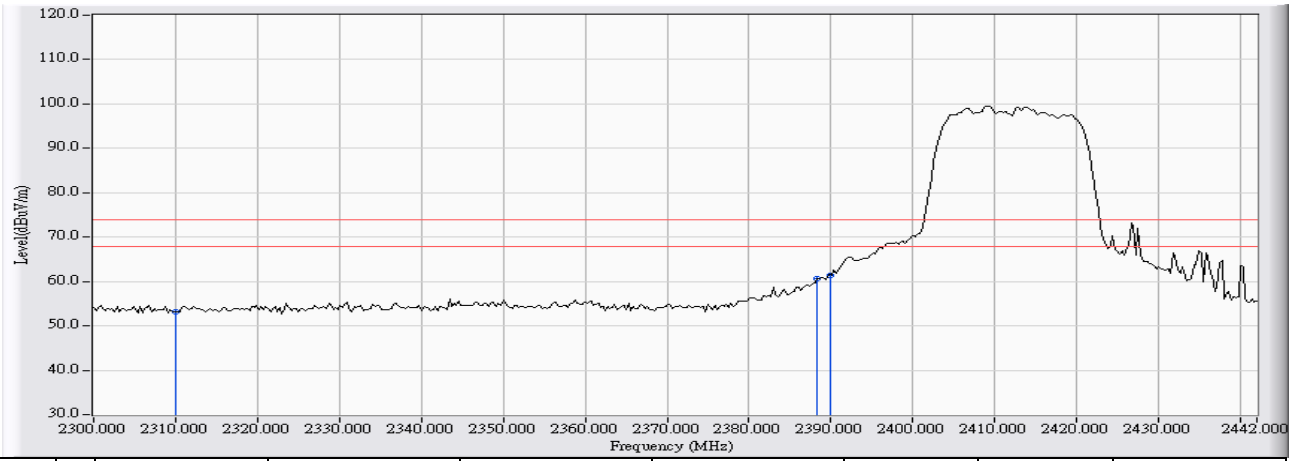


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	12.543	44.055	-9.945	54.000	AVERAGE
2		2499.708	31.639	12.554	44.193	-9.807	54.000	AVERAGE
3	*	2500.000	31.638	12.696	44.335	-9.665	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 16:02**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 20MHz_CH01**

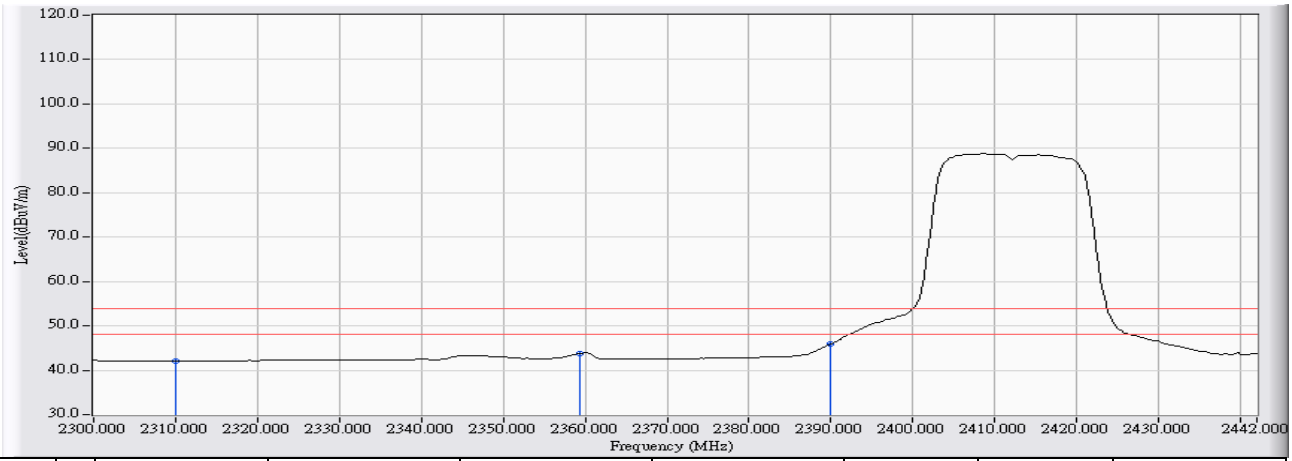


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	23.488	53.267	-20.733	74.000	PEAK
2		2388.324	30.562	30.145	60.706	-13.294	74.000	PEAK
3	*	2390.000	30.578	30.829	61.407	-12.593	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 16:04**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 20MHz_CH01**

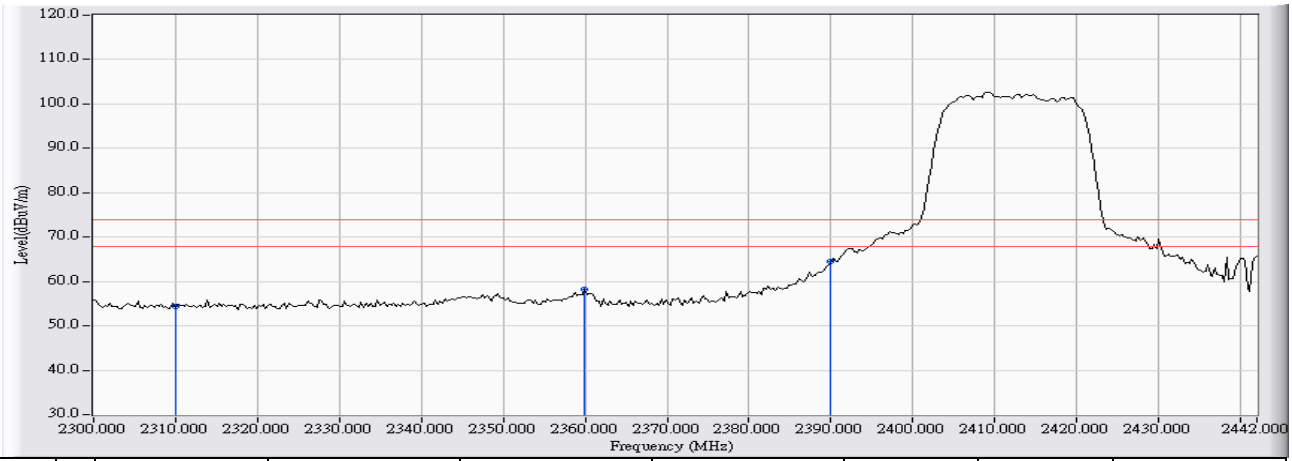


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.335	42.114	-11.886	54.000	PEAK
2		2359.356	30.272	13.529	43.801	-10.199	54.000	PEAK
3	*	2390.000	30.578	15.296	45.874	-8.126	54.000	PEAK

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 : Site1	**Time : 2012/06/06 - 16:08**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 20MHz_CH01**

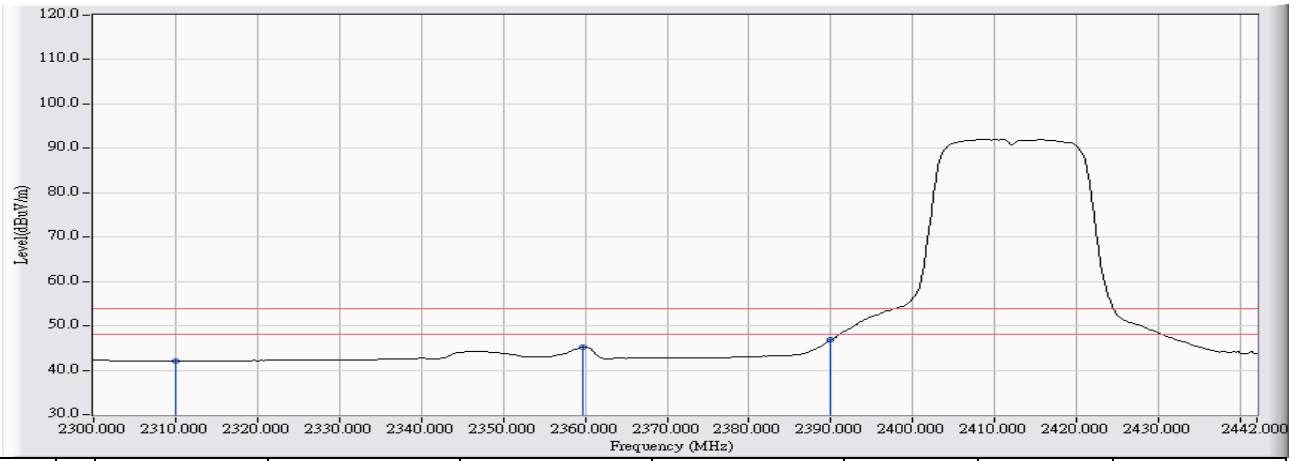


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	24.580	54.359	-19.641	74.000	PEAK
2		2359.924	30.277	27.855	58.133	-15.867	74.000	PEAK
3	*	2390.000	30.578	33.890	64.468	-9.532	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 16:10**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 20MHz_CH01**

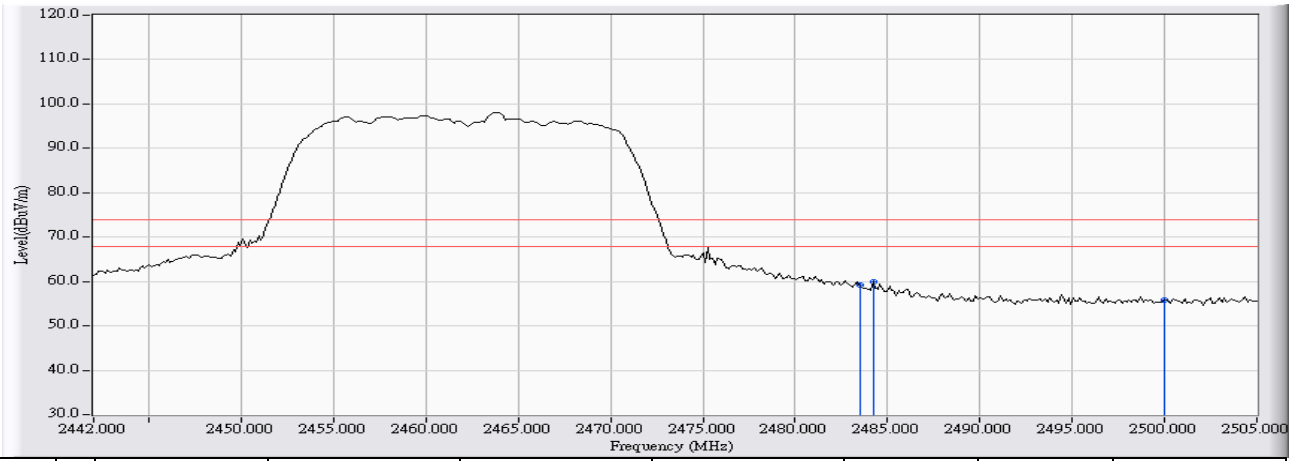


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.336	42.115	-11.885	54.000	AVERAGE
2		2359.640	30.275	14.882	45.157	-8.843	54.000	AVERAGE
3	*	2390.000	30.578	16.227	46.805	-7.195	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 16:22**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)802.11n 20MHz_CH11**

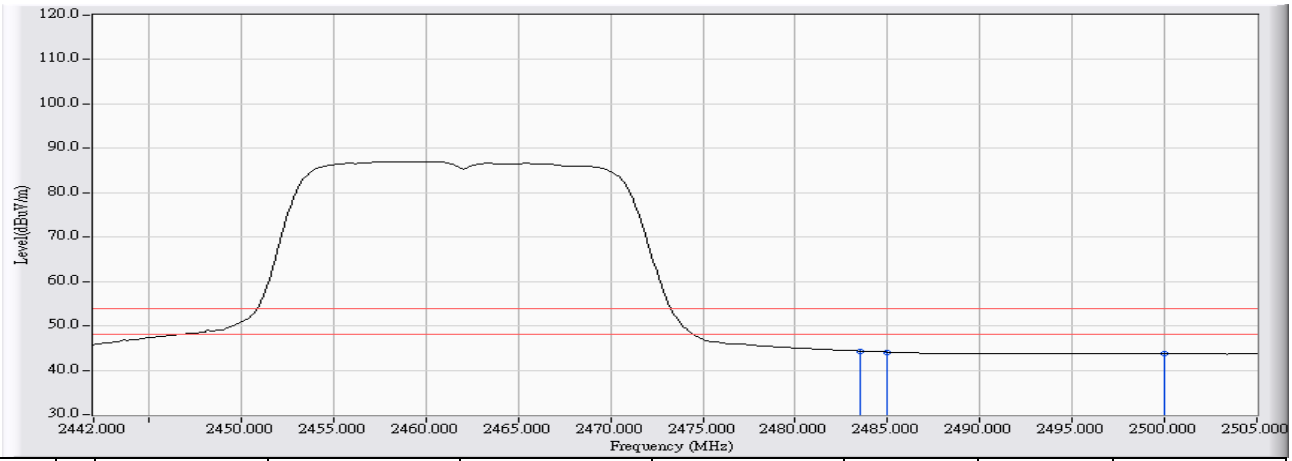


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	27.574	59.086	-14.914	74.000	PEAK
2	*	2484.210	31.519	28.391	59.910	-14.090	74.000	PEAK
3		2500.000	31.638	24.109	55.748	-18.252	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 16:23**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 20MHz_CH11**

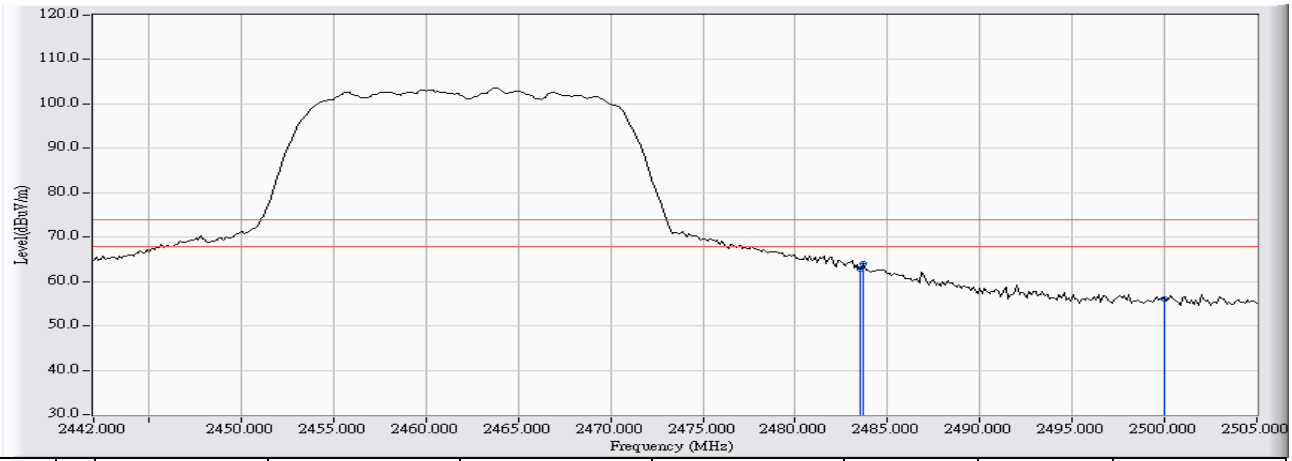


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	12.830	44.342	-9.658	54.000	AVERAGE
2		2484.966	31.527	12.579	44.105	-9.895	54.000	AVERAGE
3		2500.000	31.638	12.104	43.743	-10.257	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 16:26**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 20MHz_CH11**

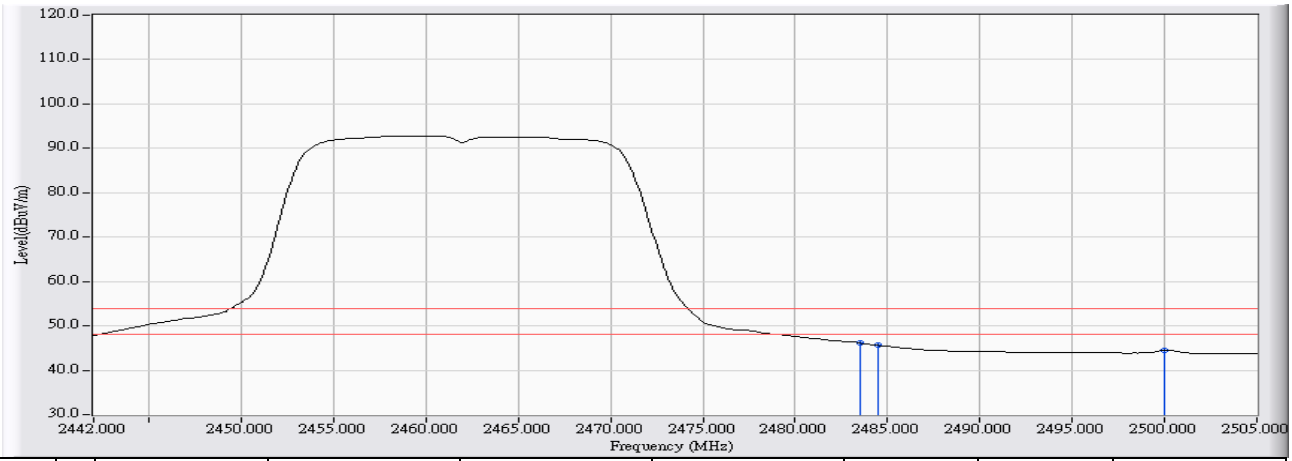


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	31.349	62.861	-11.139	74.000	PEAK
2	*	2483.706	31.514	32.424	63.938	-10.062	74.000	PEAK
3		2500.000	31.638	24.506	56.145	-17.855	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 16:28**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 20MHz_CH11**

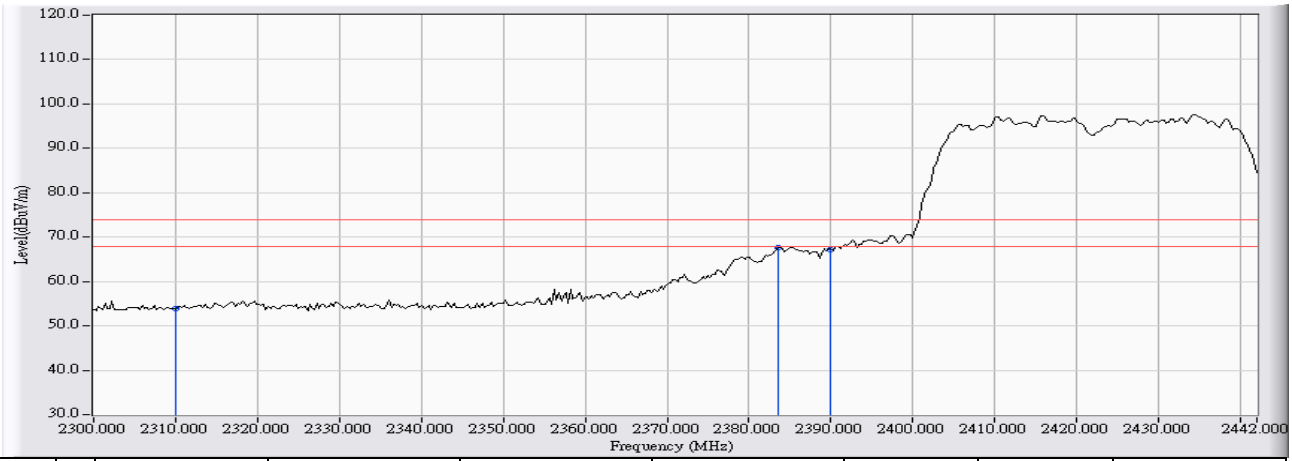


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	14.579	46.091	-7.909	54.000	AVERAGE
2		2484.462	31.521	14.092	45.613	-8.387	54.000	AVERAGE
3		2500.000	31.638	12.840	44.479	-9.521	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 17:26**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 40MHz_CH03**

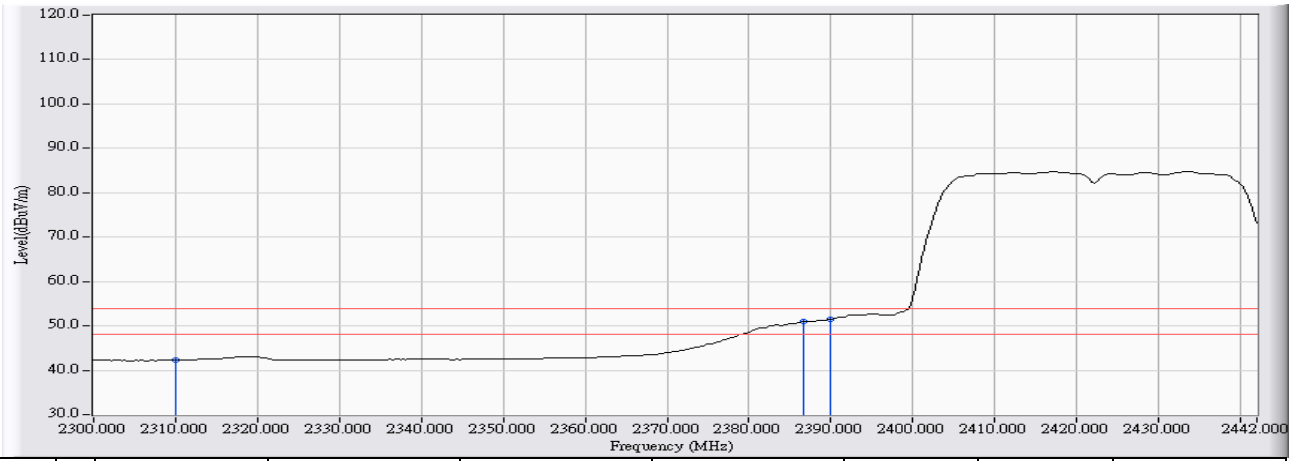


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	24.062	53.841	-20.159	74.000	PEAK
2	*	2383.496	30.513	37.089	67.602	-6.398	74.000	PEAK
3		2390.000	30.578	36.587	67.165	-6.835	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 17:28**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 40MHz_CH03**

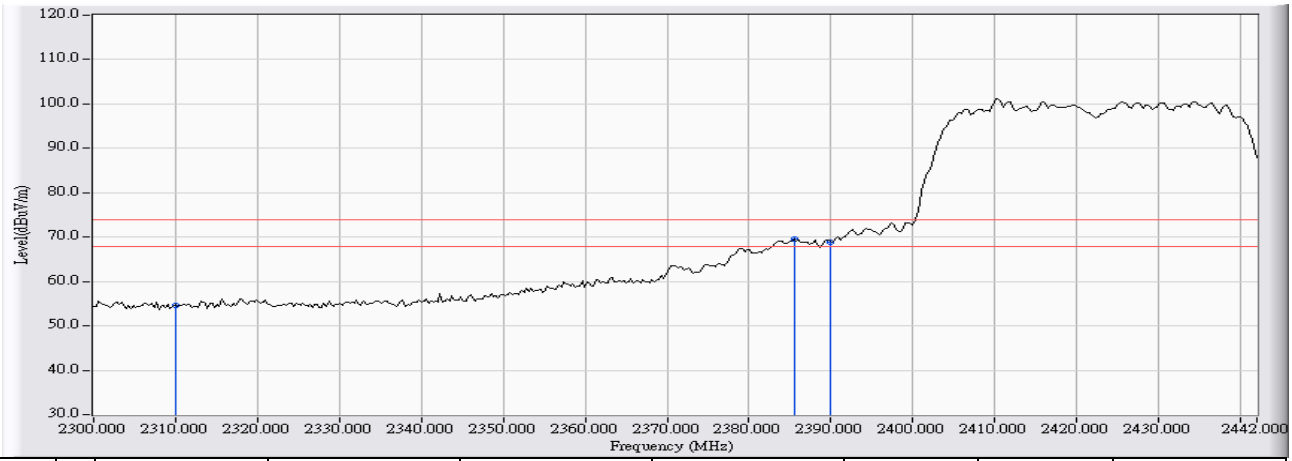


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.433	42.212	-11.788	54.000	AVERAGE
2		2386.620	30.544	20.374	50.918	-3.082	54.000	AVERAGE
3	*	2390.000	30.578	20.902	51.480	-2.520	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 17:35**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 40MHz_CH03**

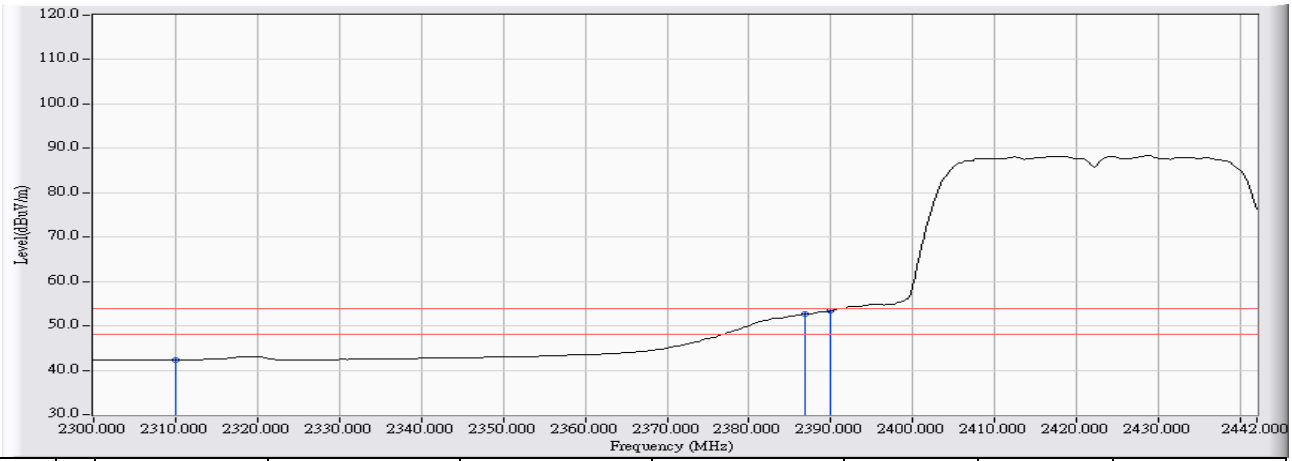


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	24.897	54.676	-19.324	74.000	PEAK
2	*	2385.484	30.532	39.131	69.664	-4.336	74.000	PEAK
3		2390.000	30.578	38.255	68.833	-5.167	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 17:44**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 40MHz_CH03**

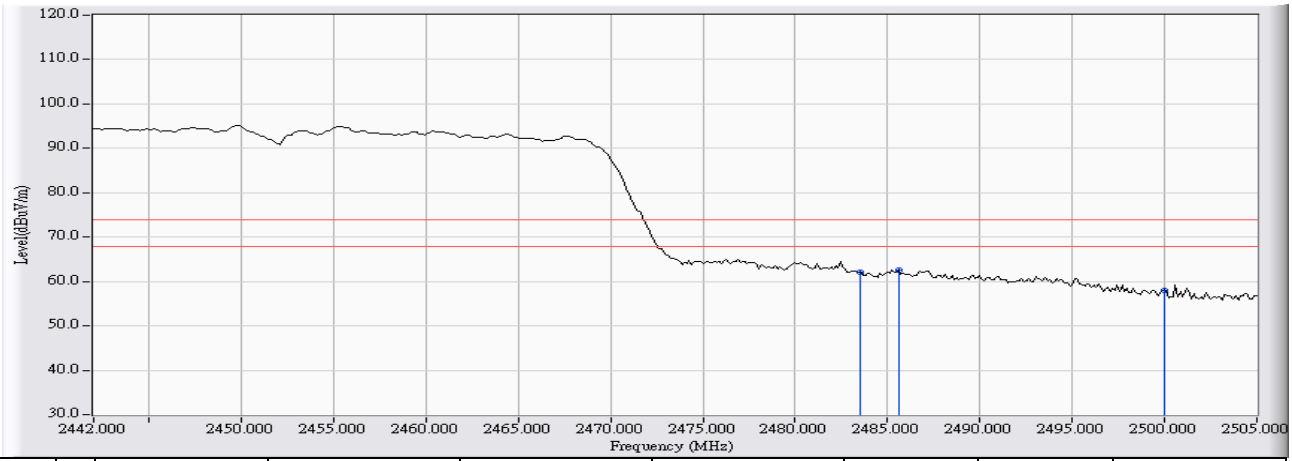


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	29.779	12.445	42.224	-11.776	54.000	AVERAGE
2		2386.904	30.548	22.156	52.703	-1.297	54.000	AVERAGE
3	*	2390.000	30.578	22.752	53.330	-0.670	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 17:47**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)802.11n 40MHz_CH09**

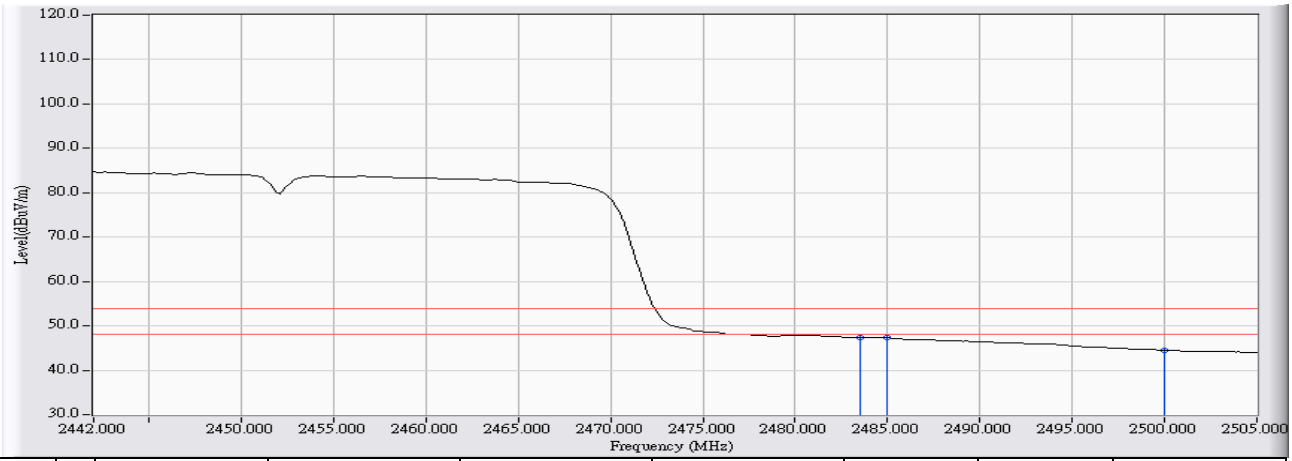


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	30.575	62.087	-11.913	74.000	PEAK
2	*	2485.596	31.532	30.923	62.456	-11.544	74.000	PEAK
3		2500.000	31.638	26.466	58.105	-15.895	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 17:48**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 40MHz_CH09**

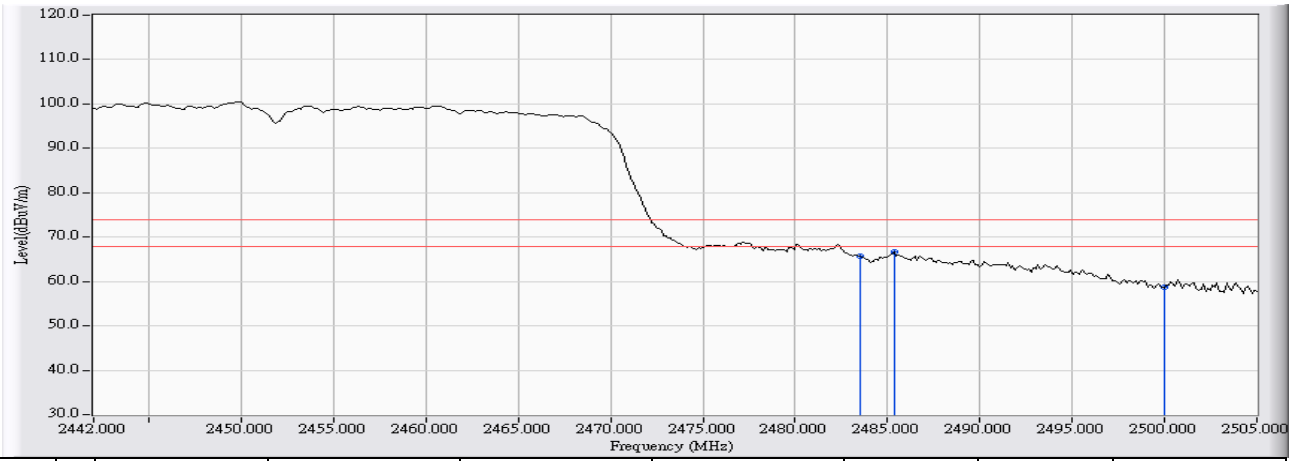


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	15.907	47.419	-6.581	54.000	AVERAGE
2		2484.966	31.527	15.758	47.284	-6.716	54.000	AVERAGE
3		2500.000	31.638	12.888	44.527	-9.473	54.000	AVERAGE

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 : Site1	**Time : 2012/06/06 - 17:50**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 40MHz_CH09**

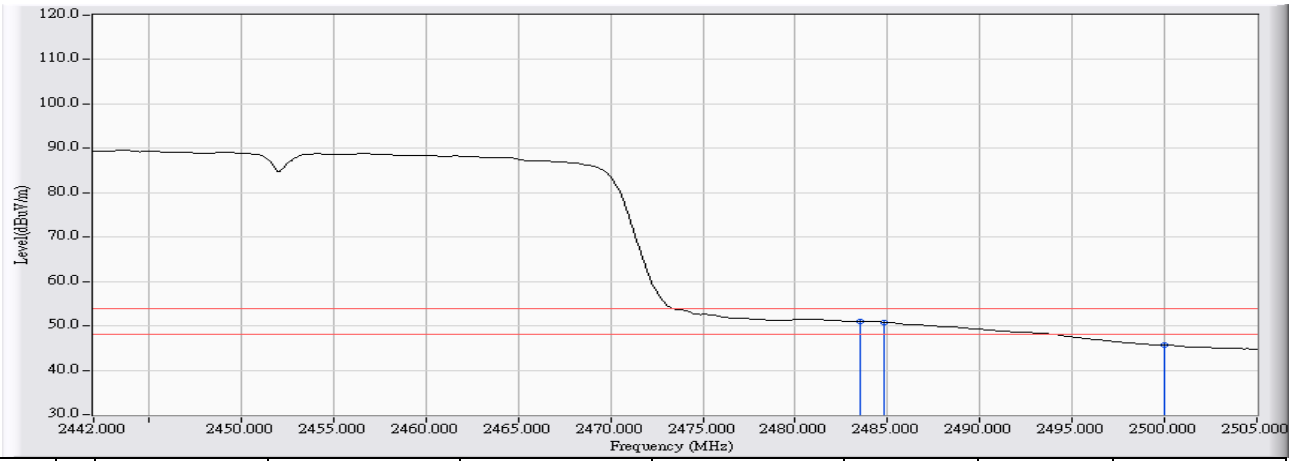


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	31.512	34.086	65.598	-8.402	74.000	PEAK
2	*	2485.344	31.530	35.228	66.758	-7.242	74.000	PEAK
3		2500.000	31.638	27.064	58.703	-15.297	74.000	PEAK

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 : Site1	**Time : 2012/06/06 - 17:51**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : VDSL2 Router with WLAN/VoIP	**Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) 802.11n 40MHz_CH09**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	19.465	50.977	-3.023	54.000	AVERAGE
2		2484.840	31.526	19.290	50.815	-3.185	54.000	AVERAGE
3		2500.000	31.638	14.110	45.749	-8.251	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

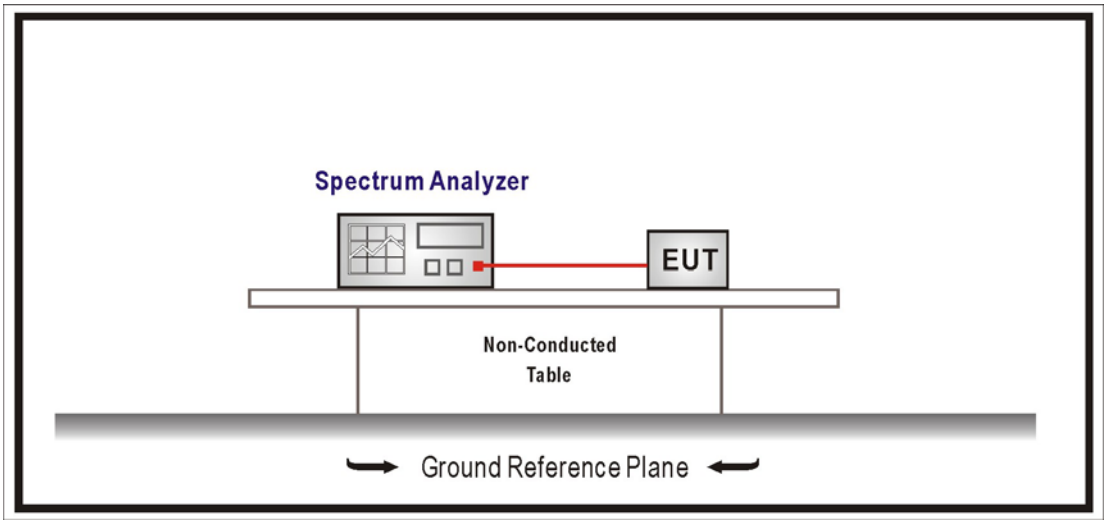
The following test equipment is used during the test:

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: 2011

7.6. Uncertainty

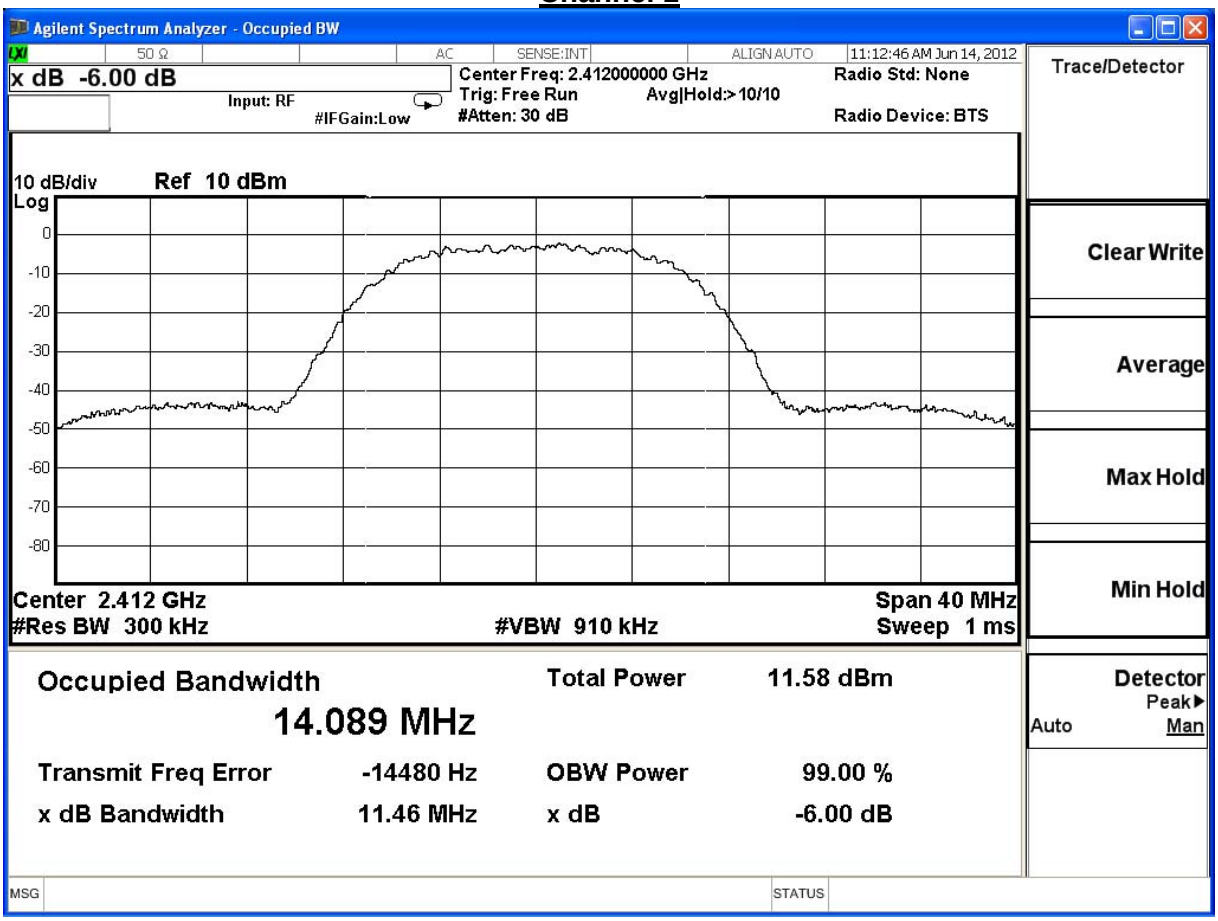
The measurement uncertainty is defined as ±150Hz

7.7. Test Result

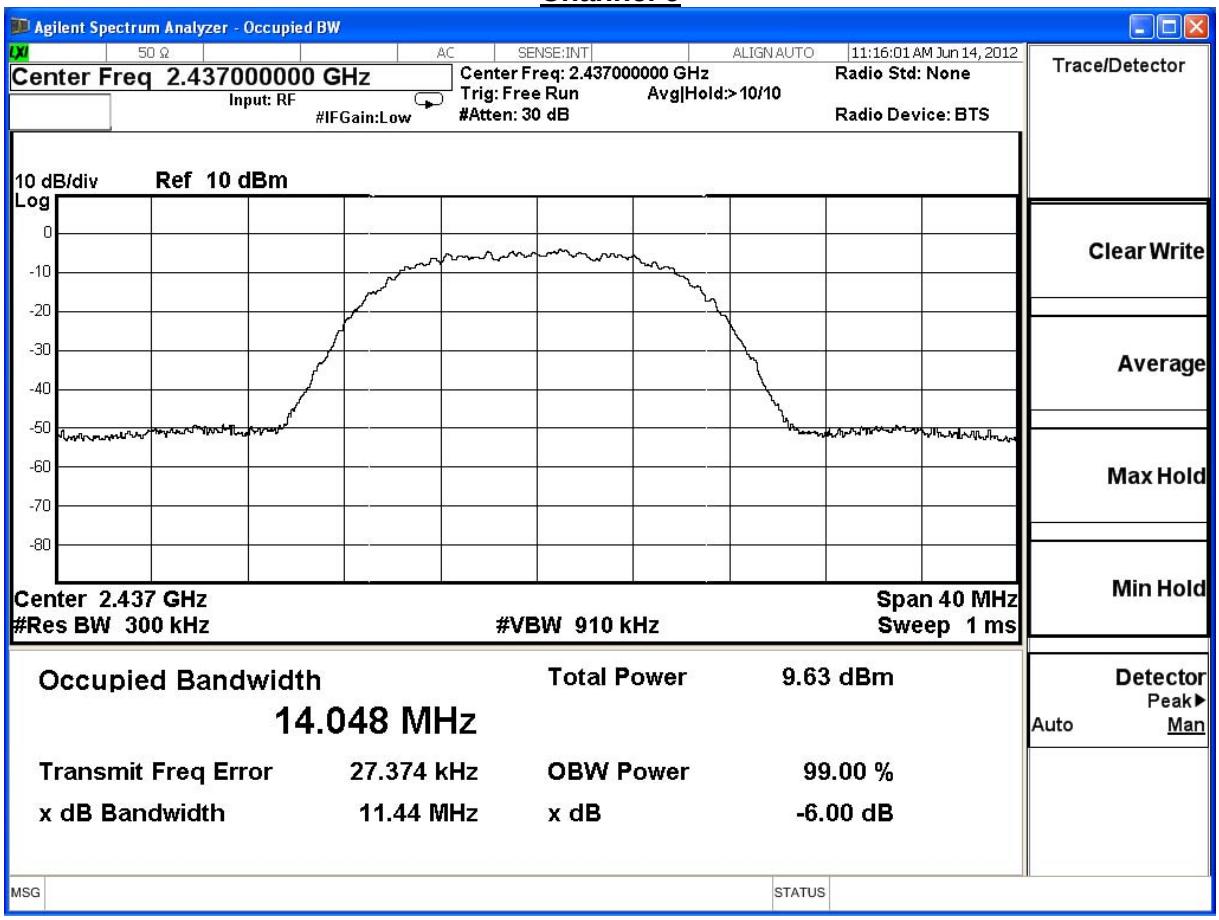
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412	11460	≧500	Pass
6	2437	11440	≧500	Pass
11	2462	11460	≧500	Pass

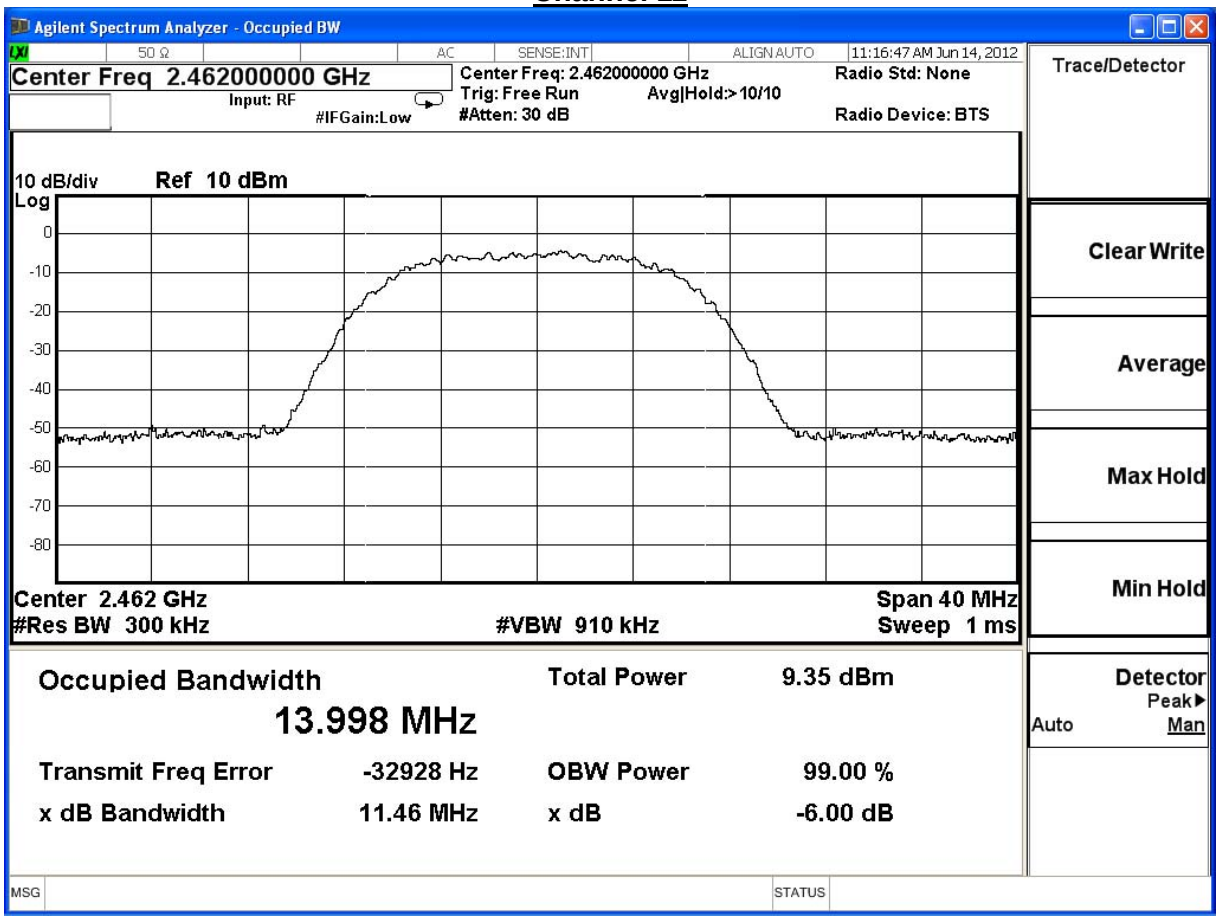
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:16:01 AM Jun 14, 2012
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 40 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
14.048 MHz
Total Power 9.63 dBm
Transmit Freq Error 27.374 kHz
OBW Power 99.00 %
x dB Bandwidth 11.44 MHz
x dB -6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

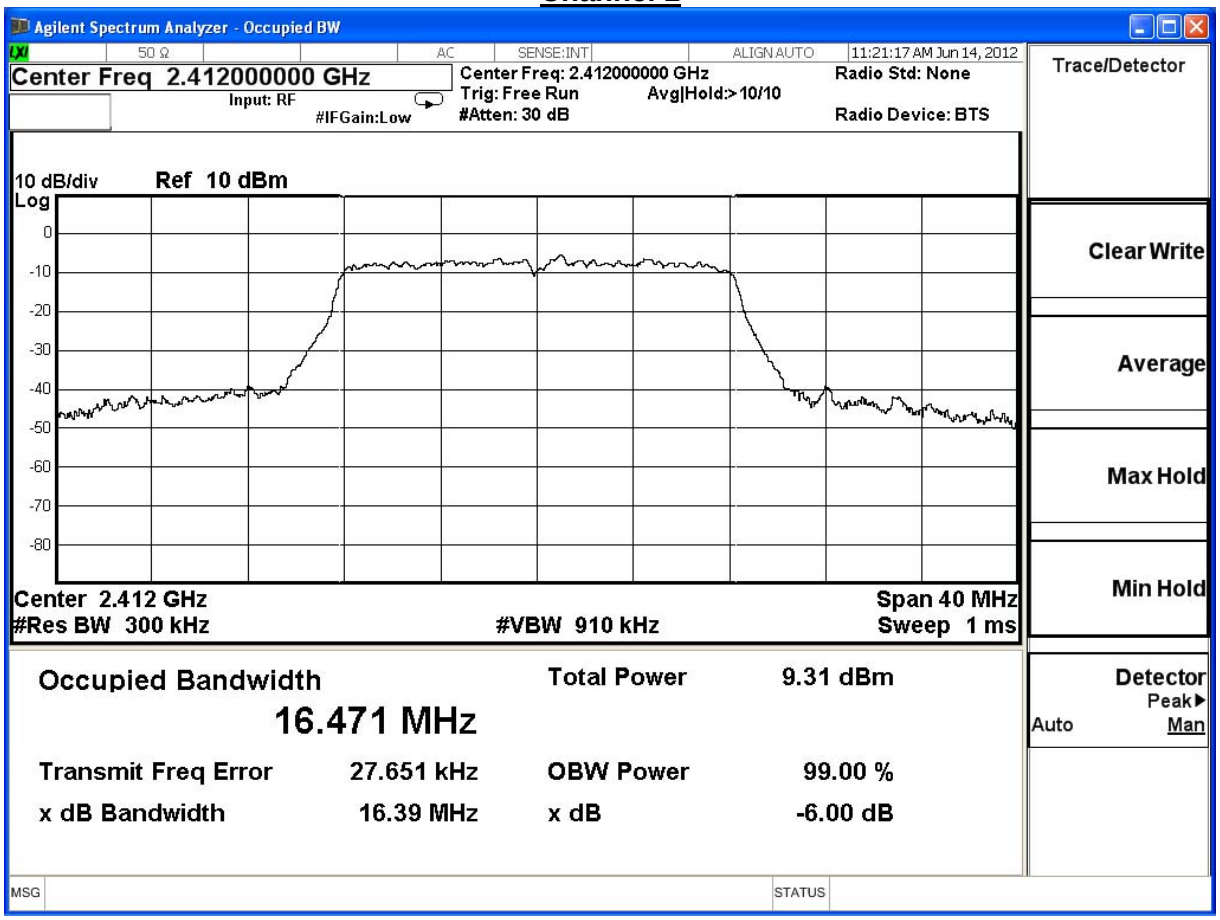
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:16:47 AM Jun 14, 2012
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 40 MHz
Sweep 1 ms
Occupied Bandwidth
13.998 MHz
Total Power
9.35 dBm
Transmit Freq Error
-32928 Hz
OBW Power
99.00 %
x dB Bandwidth
11.46 MHz
x dB
-6.00 dB
Clear Write
Average
Max Hold
Min Hold
Detector
Peak
Auto
Man
MSG
STATUS

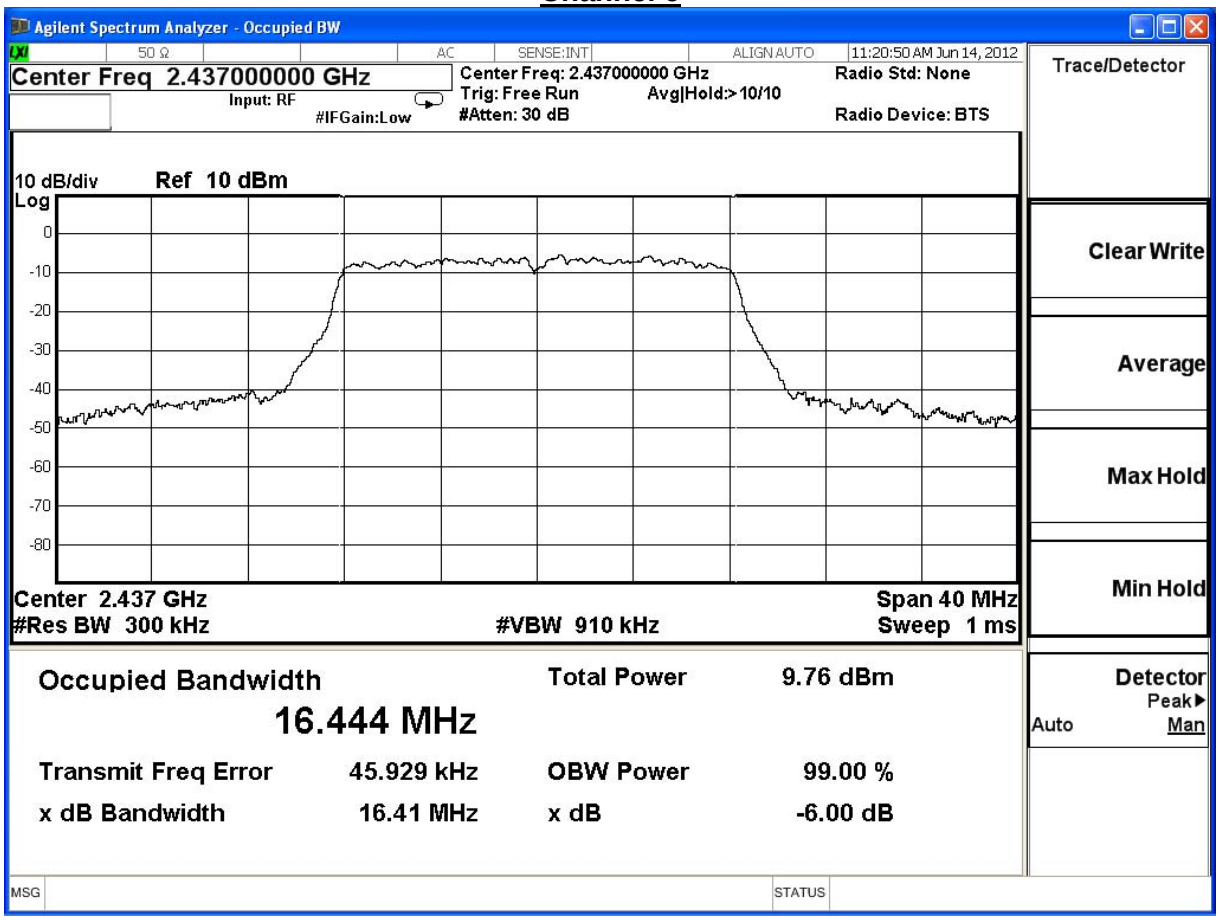
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412	16390	≧500	Pass
6	2437	16410	≧500	Pass
11	2462	16290	≧500	Pass

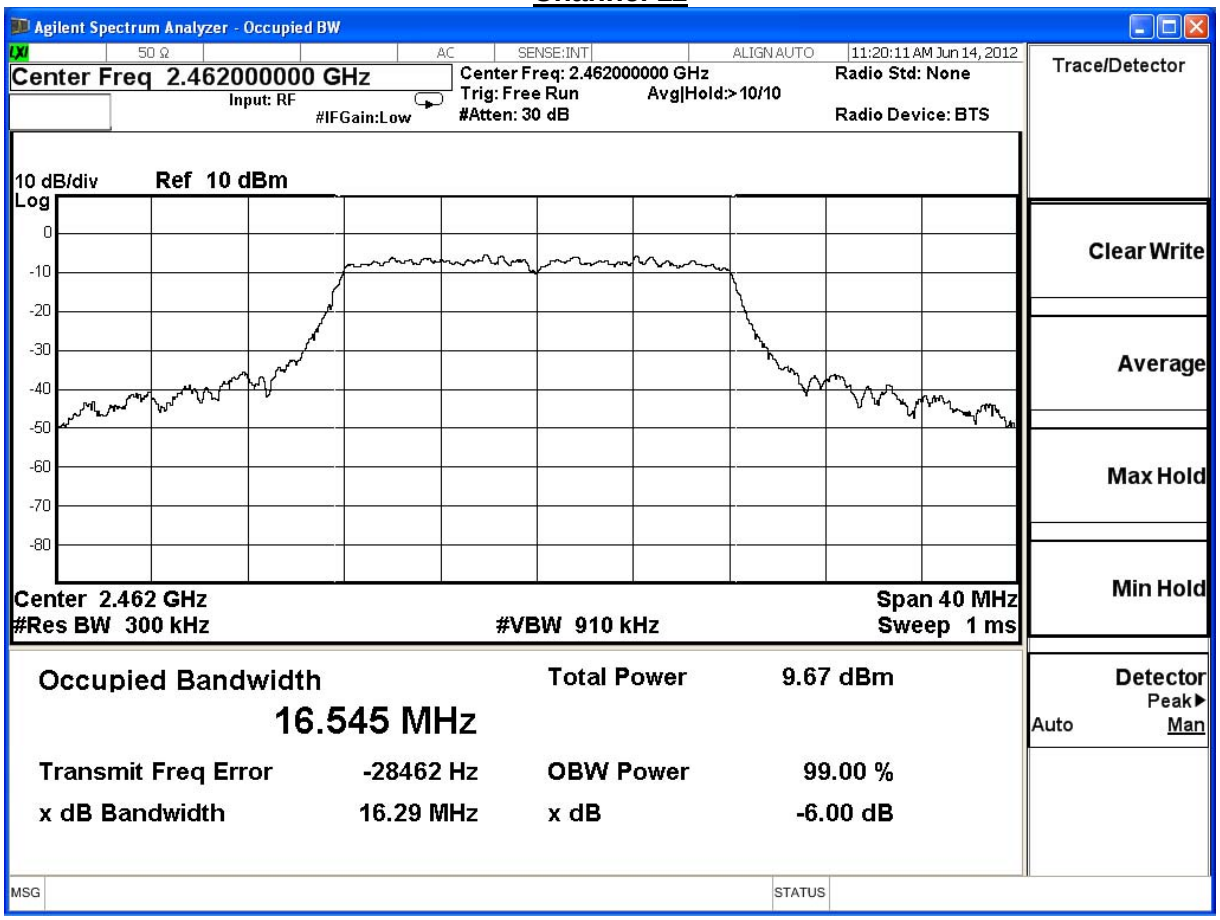
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:20:50 AM Jun 14, 2012
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 40 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
16.444 MHz
Total Power 9.76 dBm
Transmit Freq Error 45.929 kHz
OBW Power 99.00 %
x dB Bandwidth 16.41 MHz
x dB -6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

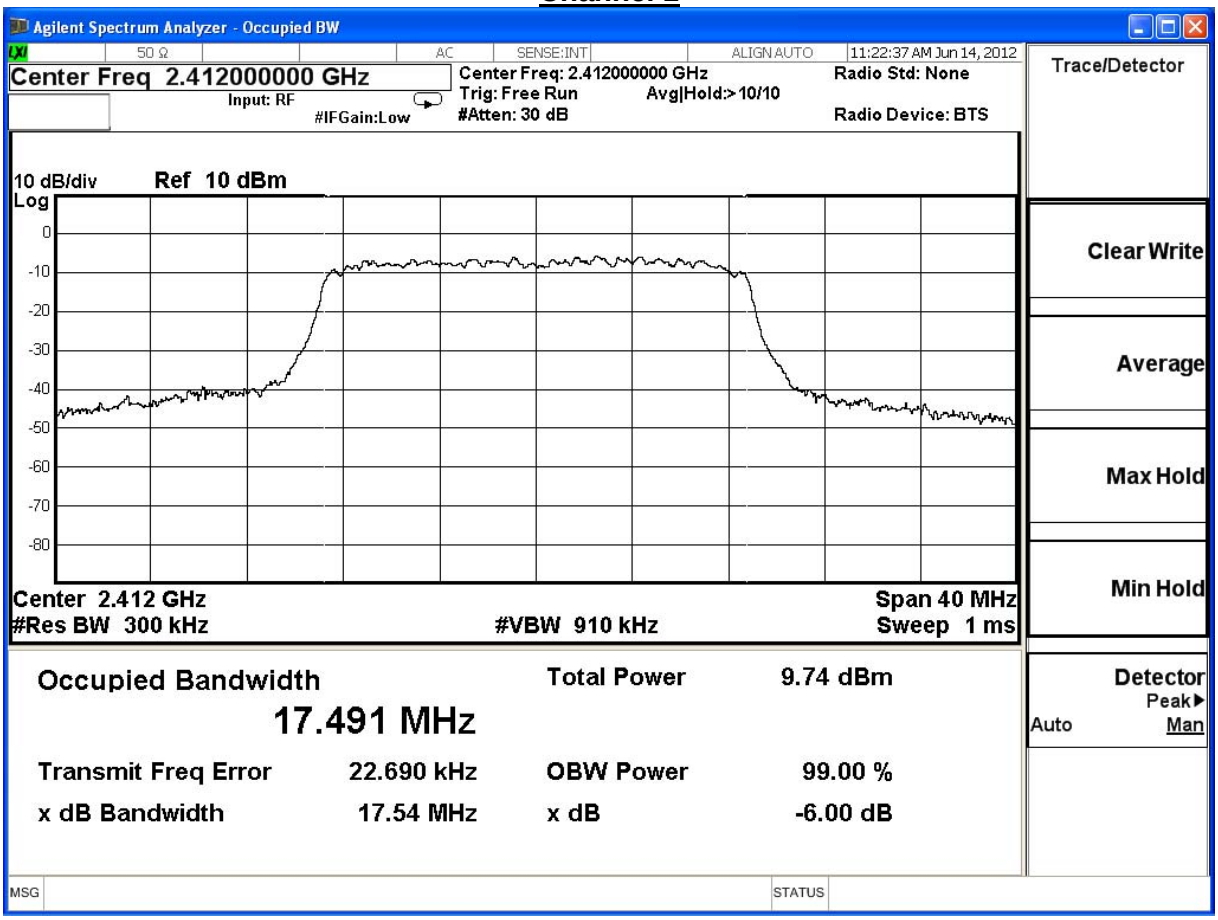
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:20:11 AM Jun 14, 2012
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 40 MHz
Sweep 1 ms
Occupied Bandwidth
16.545 MHz
Total Power
9.67 dBm
Transmit Freq Error
-28462 Hz
OBW Power
99.00 %
x dB Bandwidth
16.29 MHz
x dB
-6.00 dB
Clear Write
Average
Max Hold
Min Hold
Detector
Peak
Auto
Man
MSG
STATUS

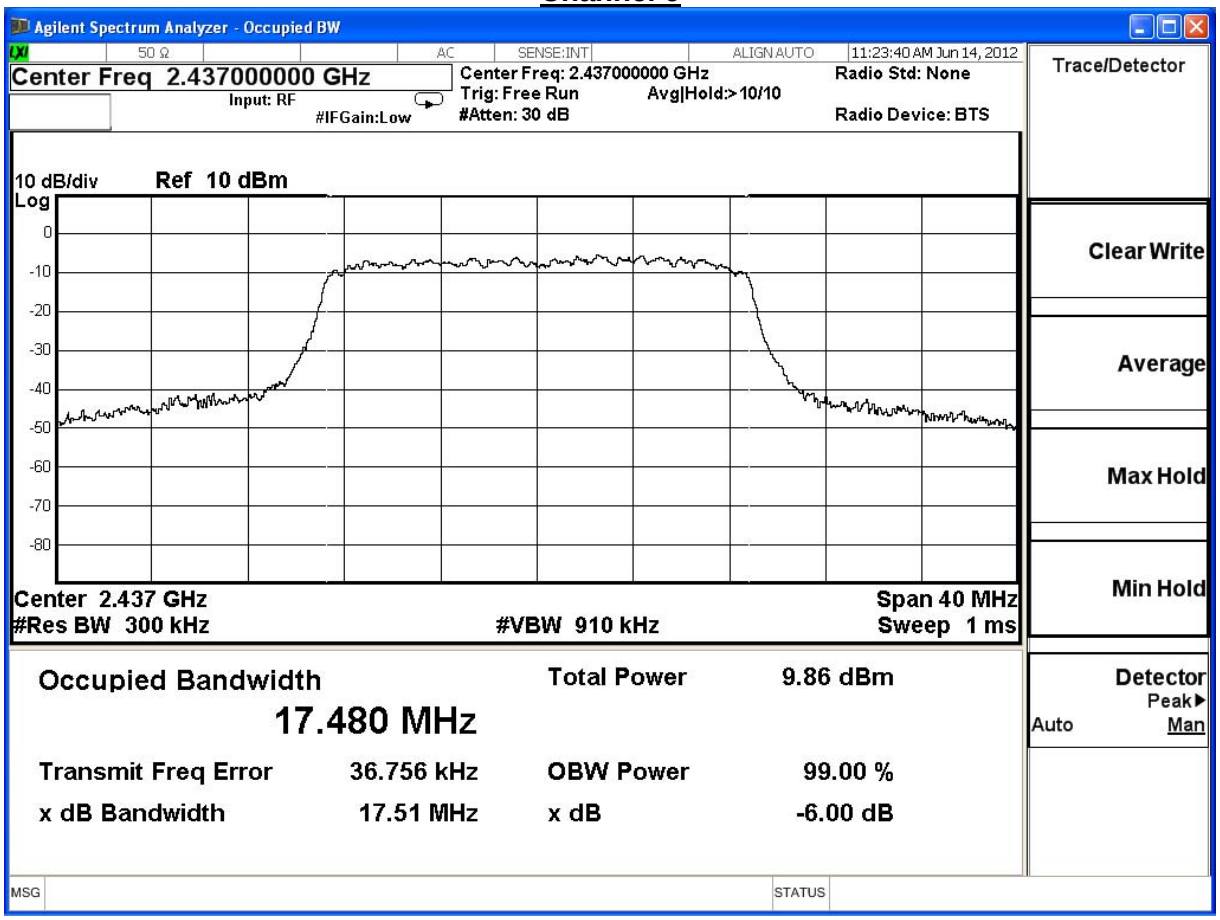
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (20MHz) ANT 0				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412	17540	≧500	Pass
6	2437	17510	≧500	Pass
11	2462	17580	≧500	Pass

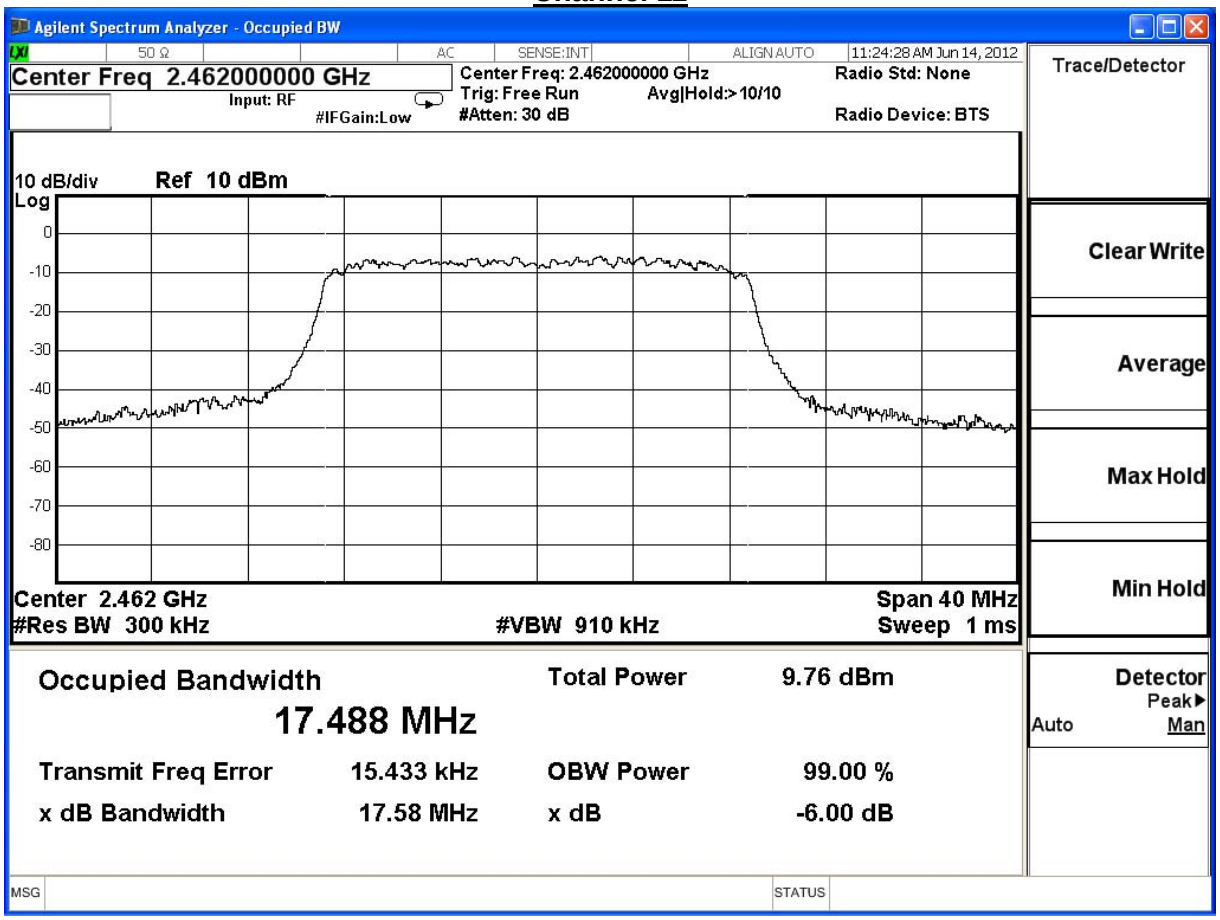
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:23:40 AM Jun 14, 2012
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 40 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
17.480 MHz
Total Power
9.86 dBm
Transmit Freq Error
36.756 kHz
OBW Power
99.00 %
x dB Bandwidth
17.51 MHz
x dB
-6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

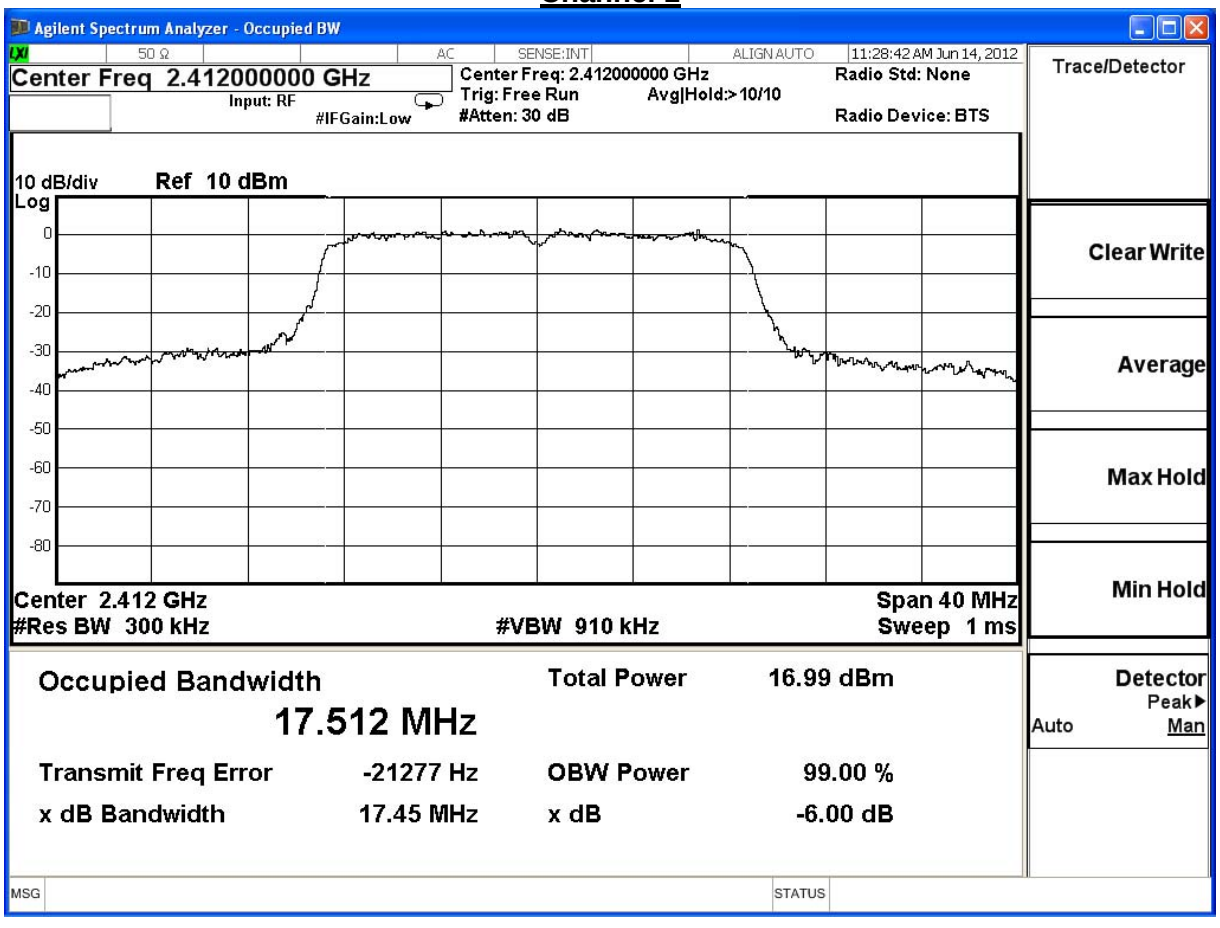
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:24:28 AM Jun 14, 2012
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 40 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
17.488 MHz
Total Power 9.76 dBm
Transmit Freq Error 15.433 kHz
OBW Power 99.00 %
x dB Bandwidth 17.58 MHz
x dB -6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

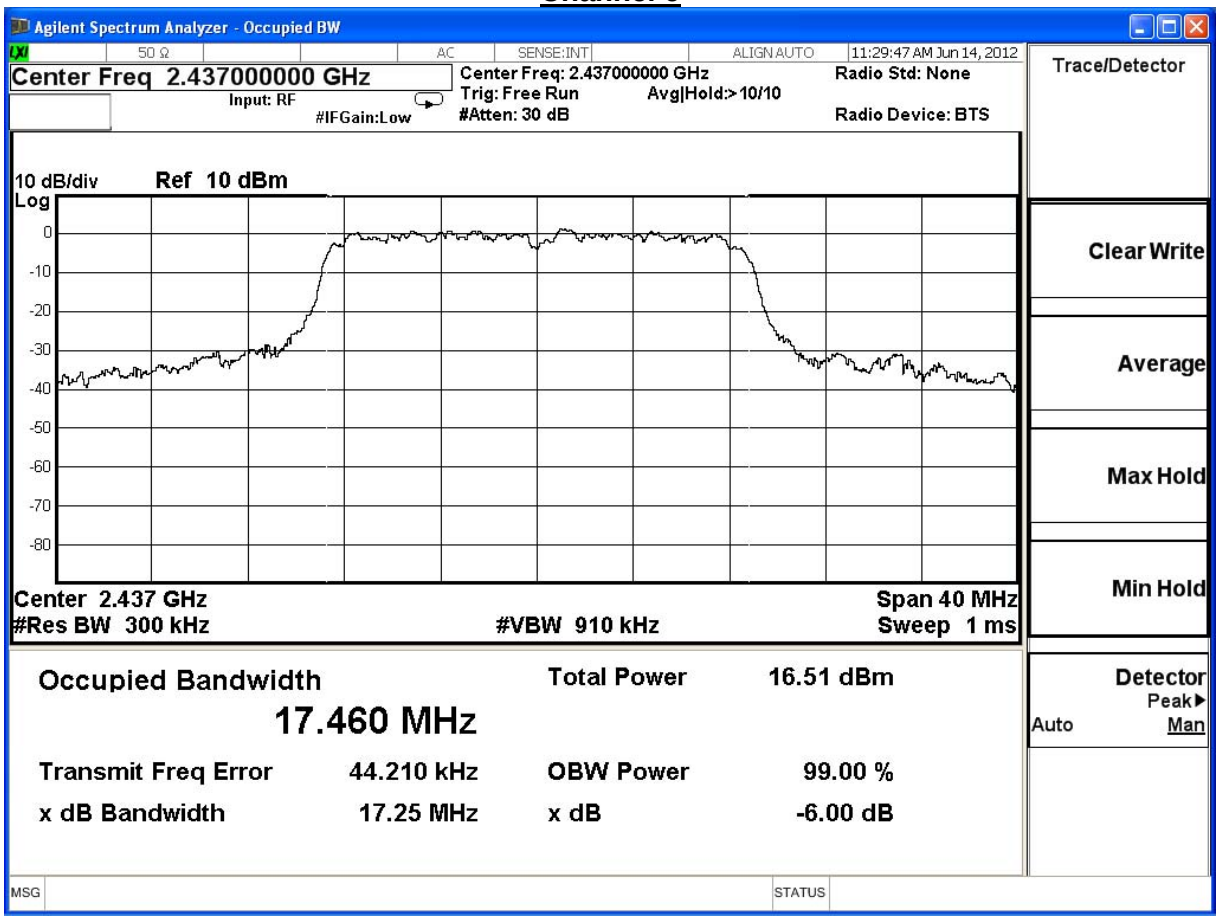
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (20MHz) ANT 1				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412	17450	≧500	Pass
6	2437	17250	≧500	Pass
11	2462	17230	≧500	Pass

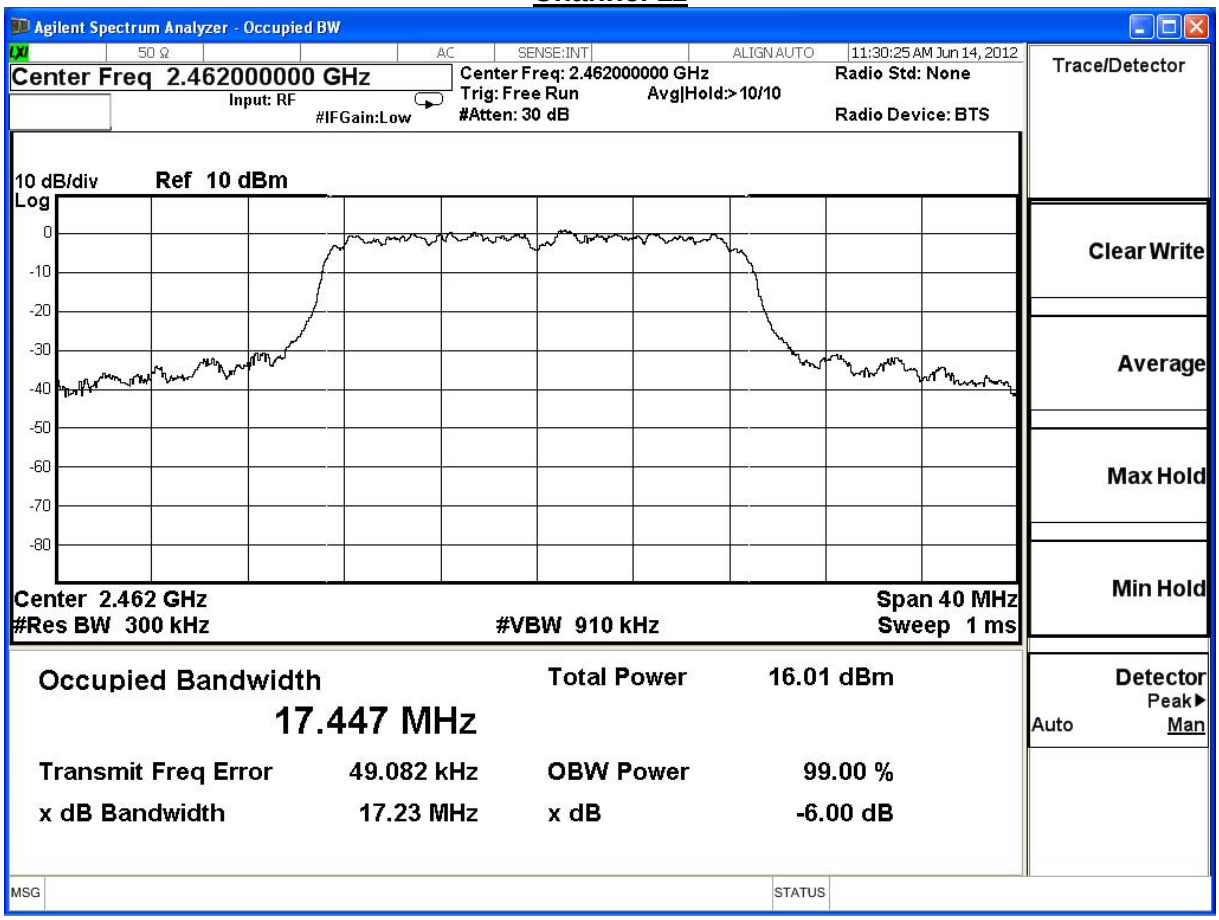
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:29:47 AM Jun 14, 2012
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 40 MHz
Sweep 1 ms
Occupied Bandwidth
17.460 MHz
Total Power
16.51 dBm
Transmit Freq Error
44.210 kHz
OBW Power
99.00 %
x dB Bandwidth
17.25 MHz
x dB
-6.00 dB
Clear Write
Average
Max Hold
Min Hold
Detector
Peak
Auto
Man
MSG
STATUS

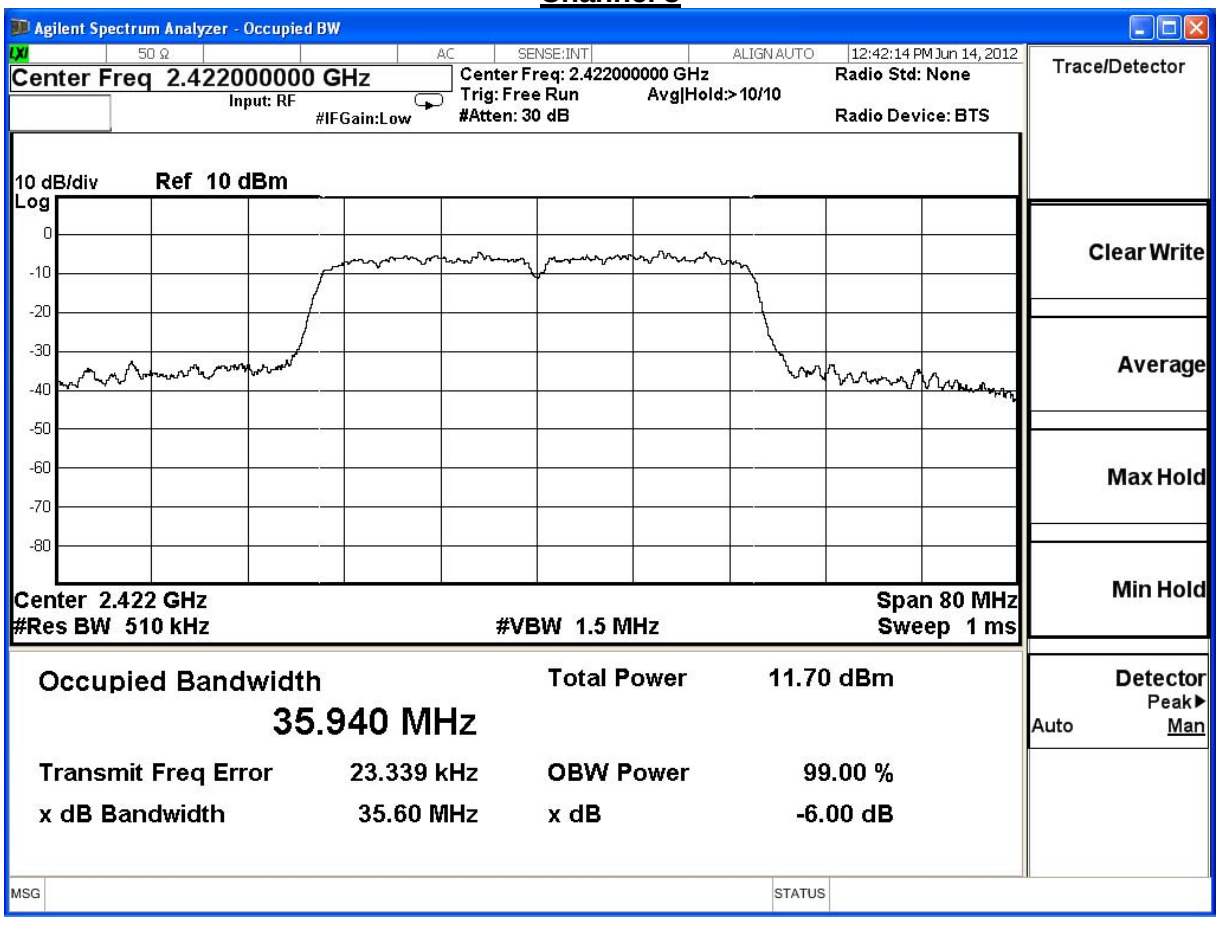
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:30:25 AM Jun 14, 2012
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 40 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
17.447 MHz
Total Power 16.01 dBm
Transmit Freq Error 49.082 kHz
OBW Power 99.00 %
x dB Bandwidth 17.23 MHz
x dB -6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

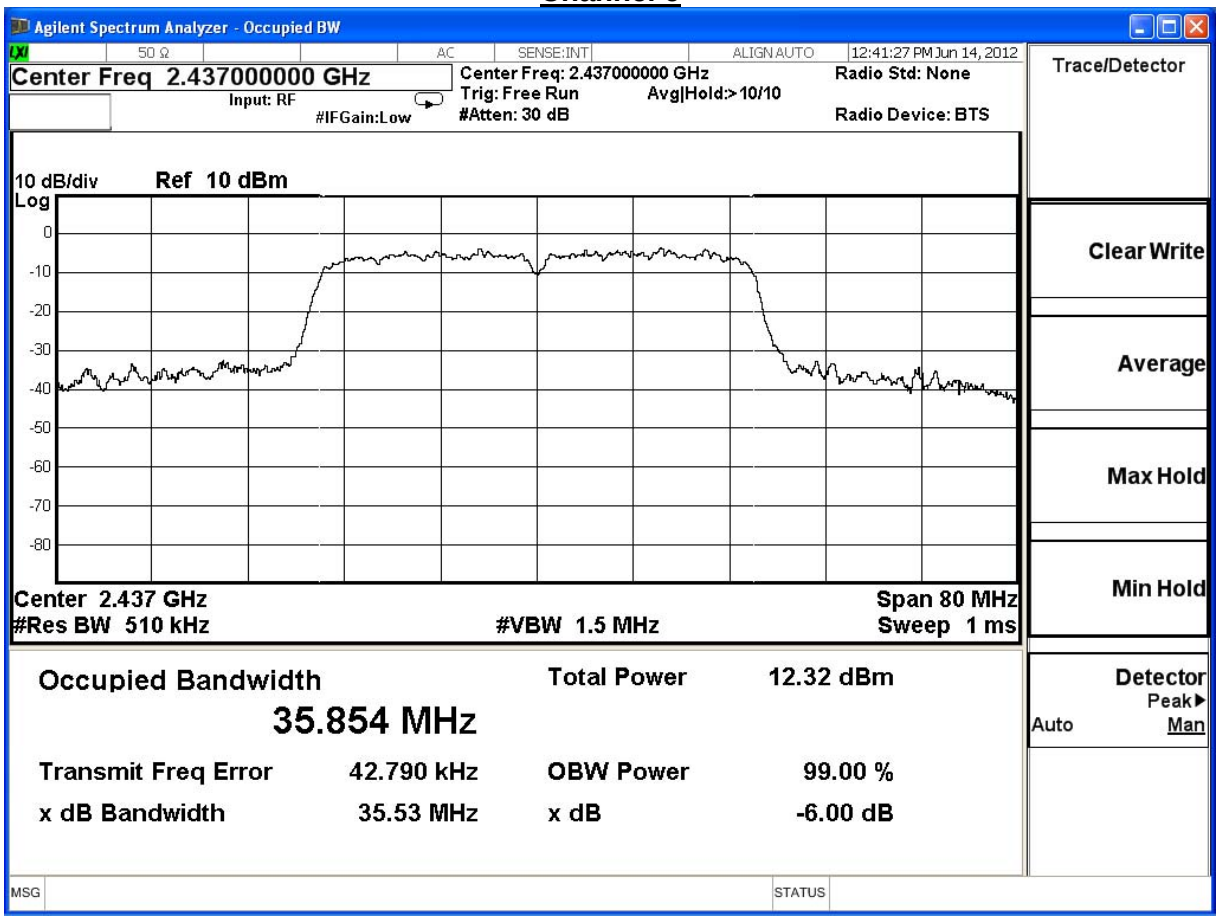
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (40MHz) ANT 0				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
3	2422	35600	≧500	Pass
6	2437	35530	≧500	Pass
9	2452	35550	≧500	Pass

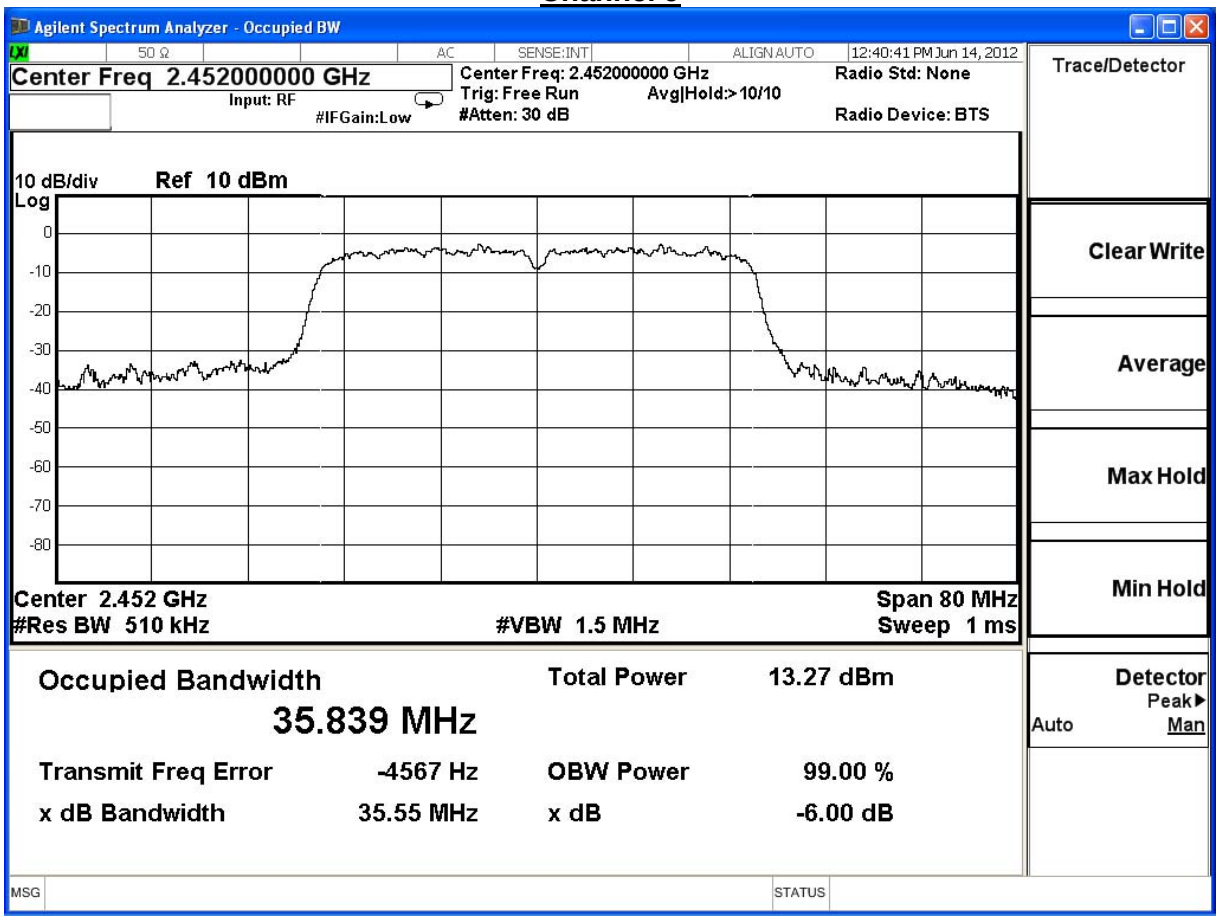
Channel 3



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:41:27 PM Jun 14, 2012
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
35.854 MHz
Total Power
12.32 dBm
Transmit Freq Error
42.790 kHz
OBW Power
99.00 %
x dB Bandwidth
35.53 MHz
x dB
-6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

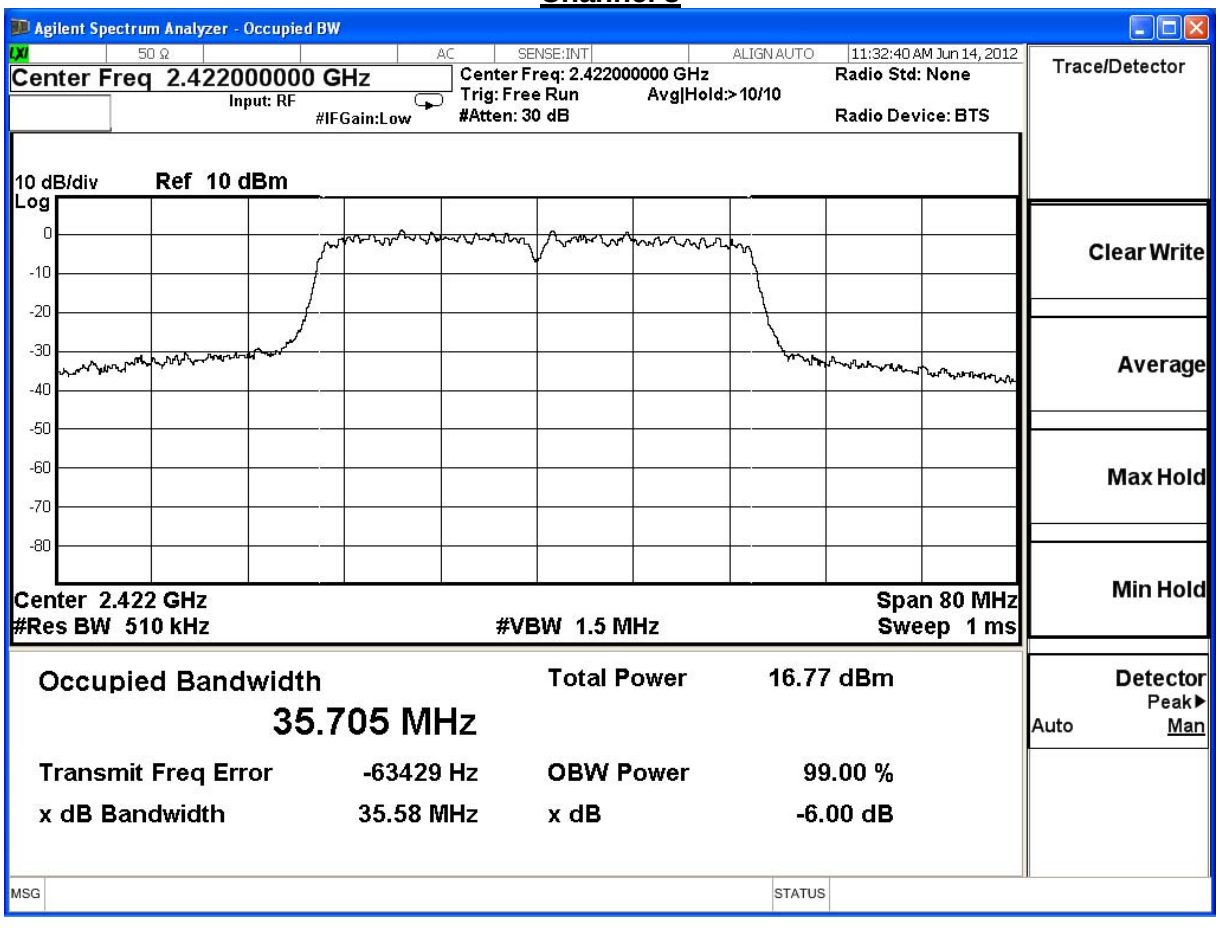
Channel 9


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:40:41 PM Jun 14, 2012
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
35.839 MHz
Total Power
13.27 dBm
Transmit Freq Error
-4567 Hz
OBW Power
99.00 %
x dB Bandwidth
35.55 MHz
x dB
-6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

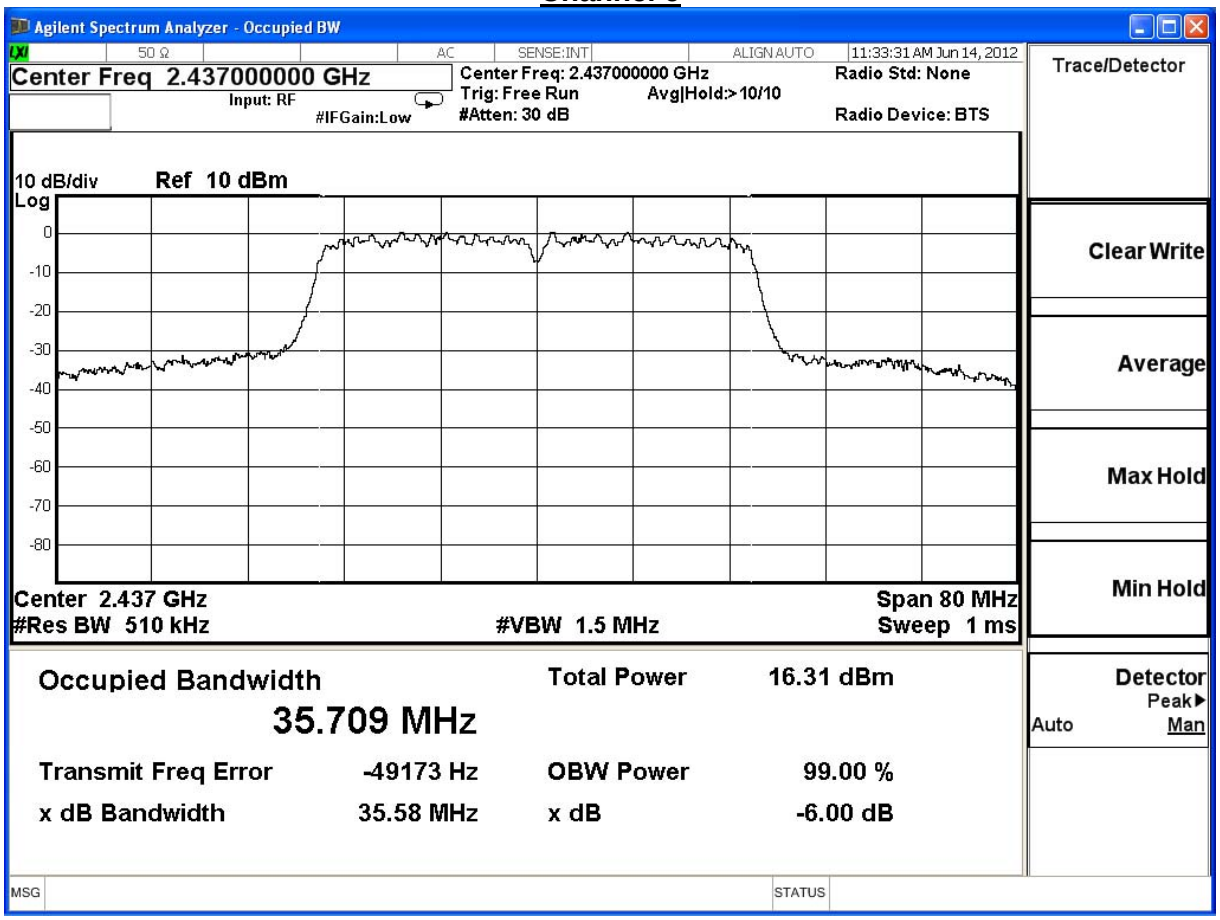
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (40MHz) ANT 1				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
3	2422	35580	≧500	Pass
6	2437	35580	≧500	Pass
9	2452	35510	≧500	Pass

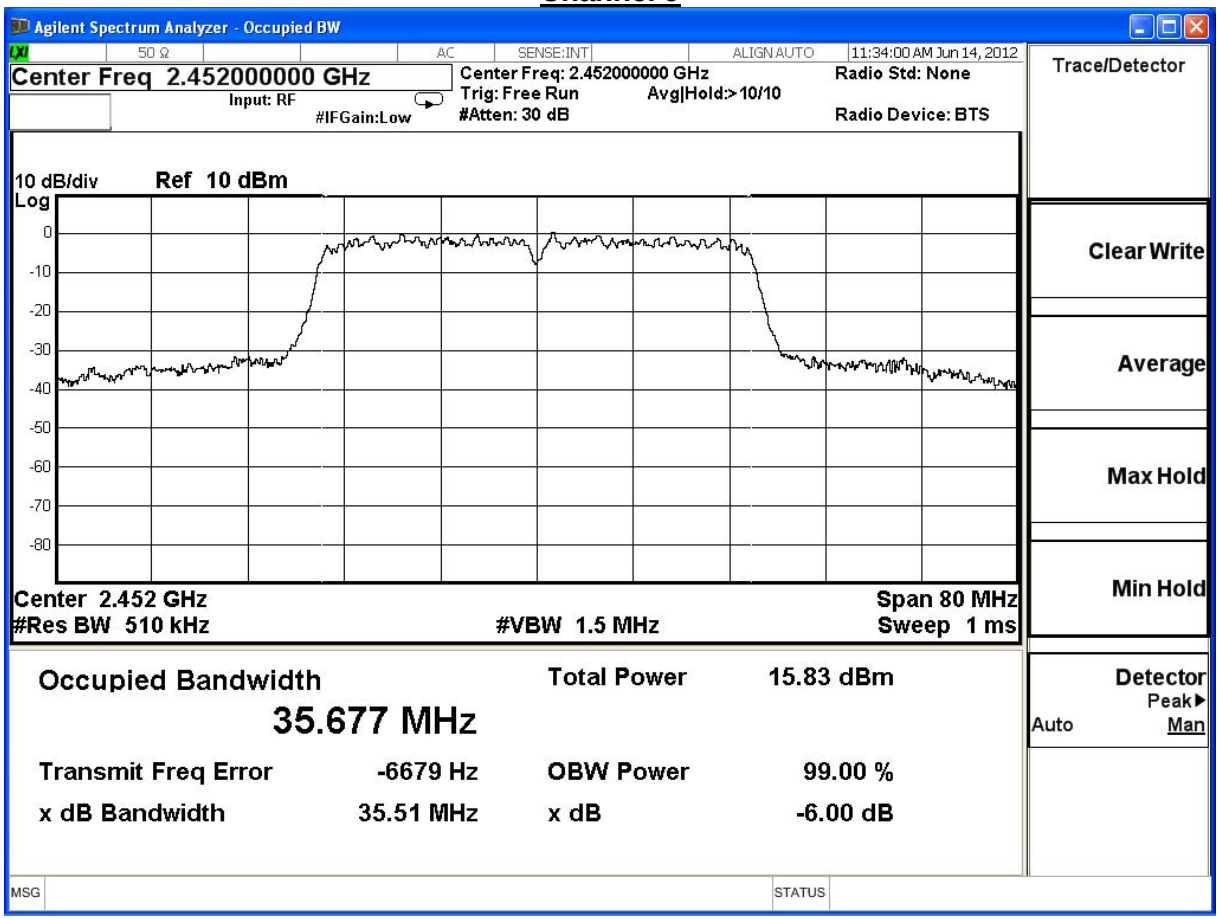
Channel 3



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:33:31 AM Jun 14, 2012
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
35.709 MHz
Total Power 16.31 dBm
Transmit Freq Error -49173 Hz
OBW Power 99.00 %
x dB Bandwidth 35.58 MHz
x dB -6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:34:00 AM Jun 14, 2012
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 10 dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Occupied Bandwidth
35.677 MHz
Total Power 15.83 dBm
Transmit Freq Error -6679 Hz
OBW Power 99.00 %
x dB Bandwidth 35.51 MHz
x dB -6.00 dB
Detector
Peak
Auto
Man
MSG
STATUS

8. Power Density

8.1. Test Equipment

The following test equipment is used during the test:

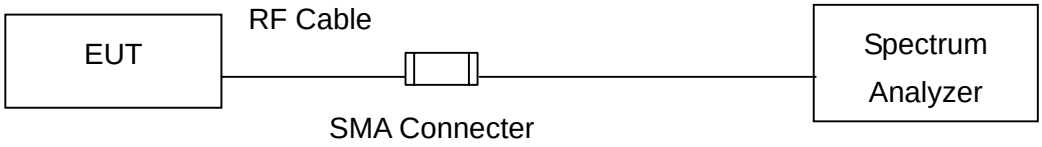
Power Density / SR7

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

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 / 40M) 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 of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW= 3 kHz, Set VBW≧ 9 kHz, Sweep time=Auto, Set detector=Peak detector

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

8.6. Uncertainty

The measurement uncertainty is defined as ±1.27dB.

8.7. Test Result

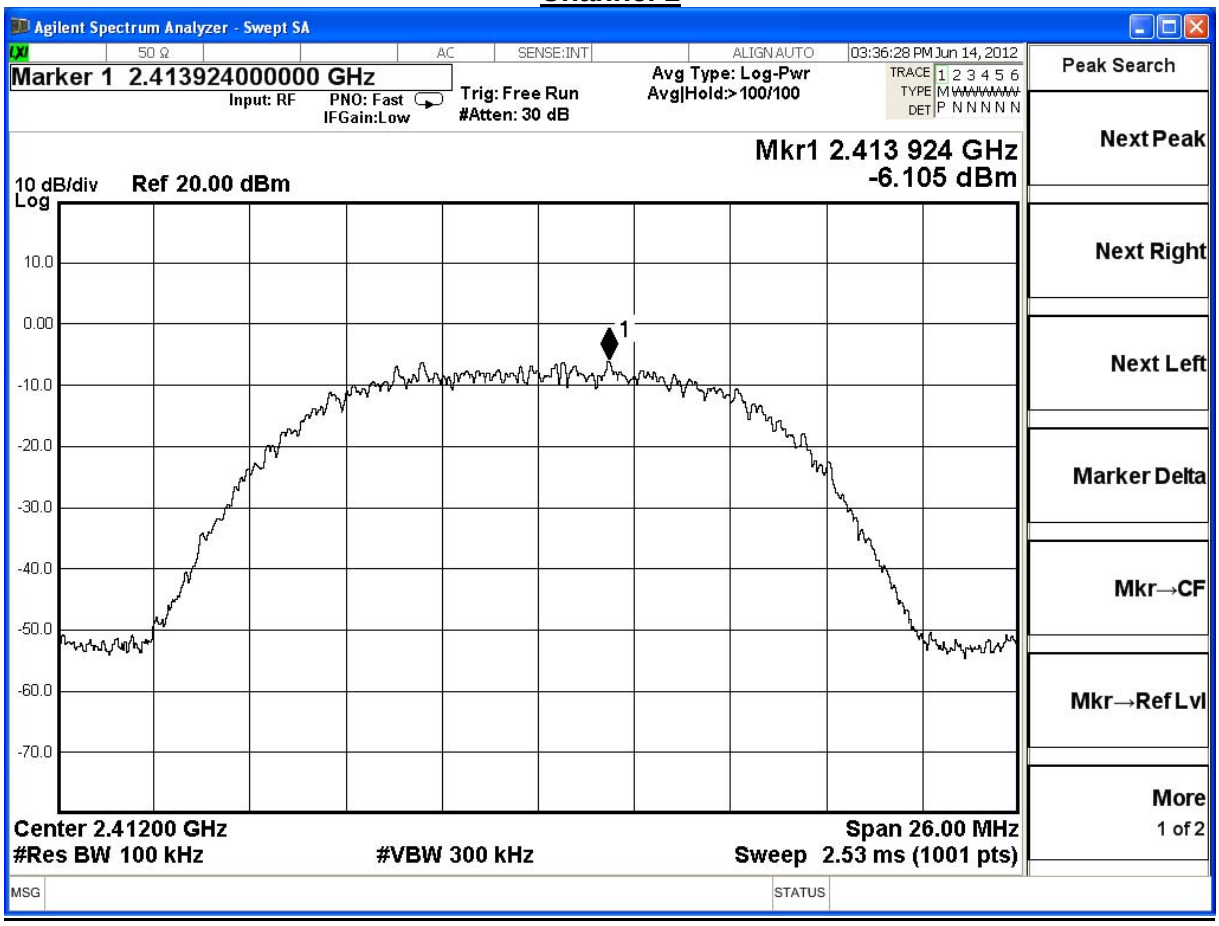
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11b					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-6.105	-21.305	≦8	Pass
6	2437	-6.359	-21.559	≦8	Pass
11	2462	-6.984	-22.184	≦8	Pass

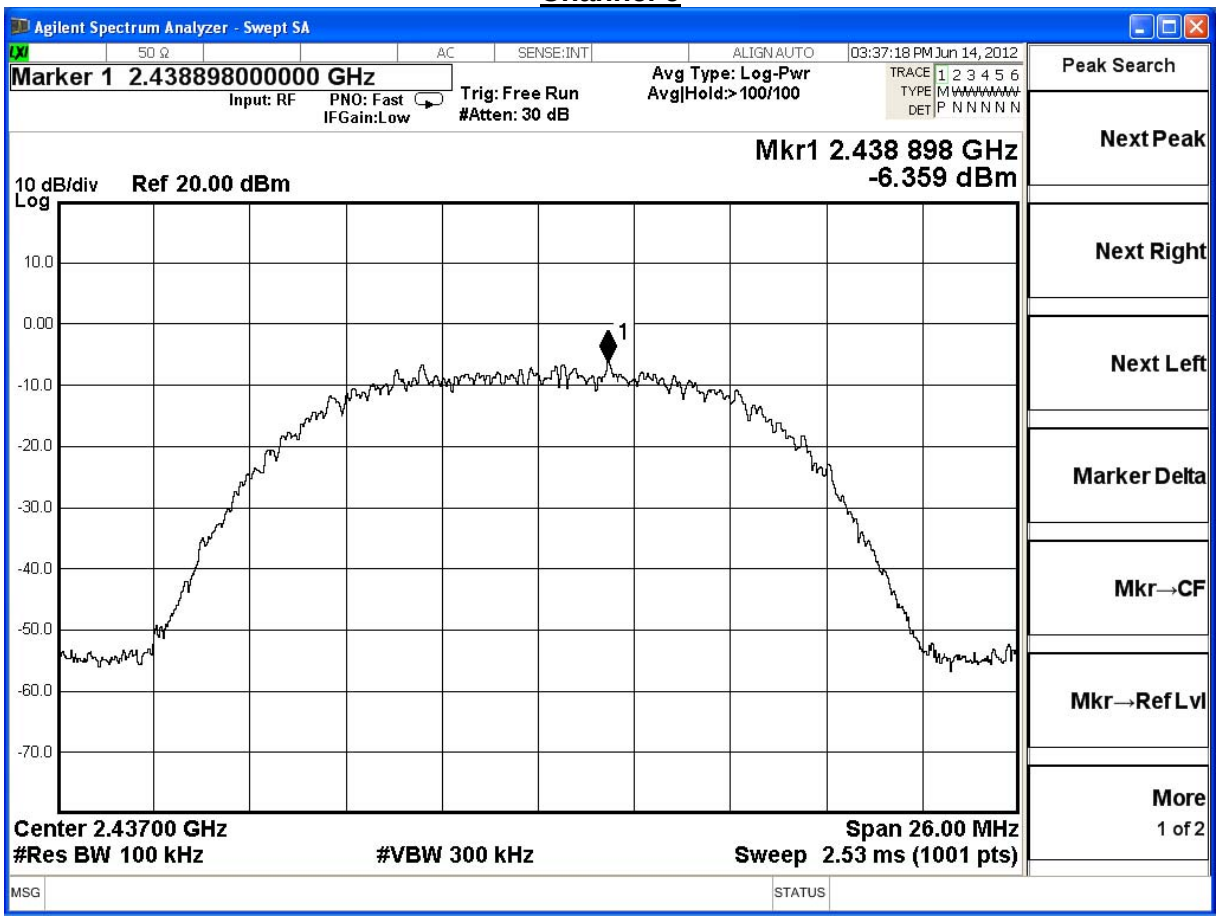
Note: Measure Level = Reading level + BWCF = Reading level -15.2 dB

Bandwidth correction factor (BWCF) = 10log (3 kHz/100kHz)

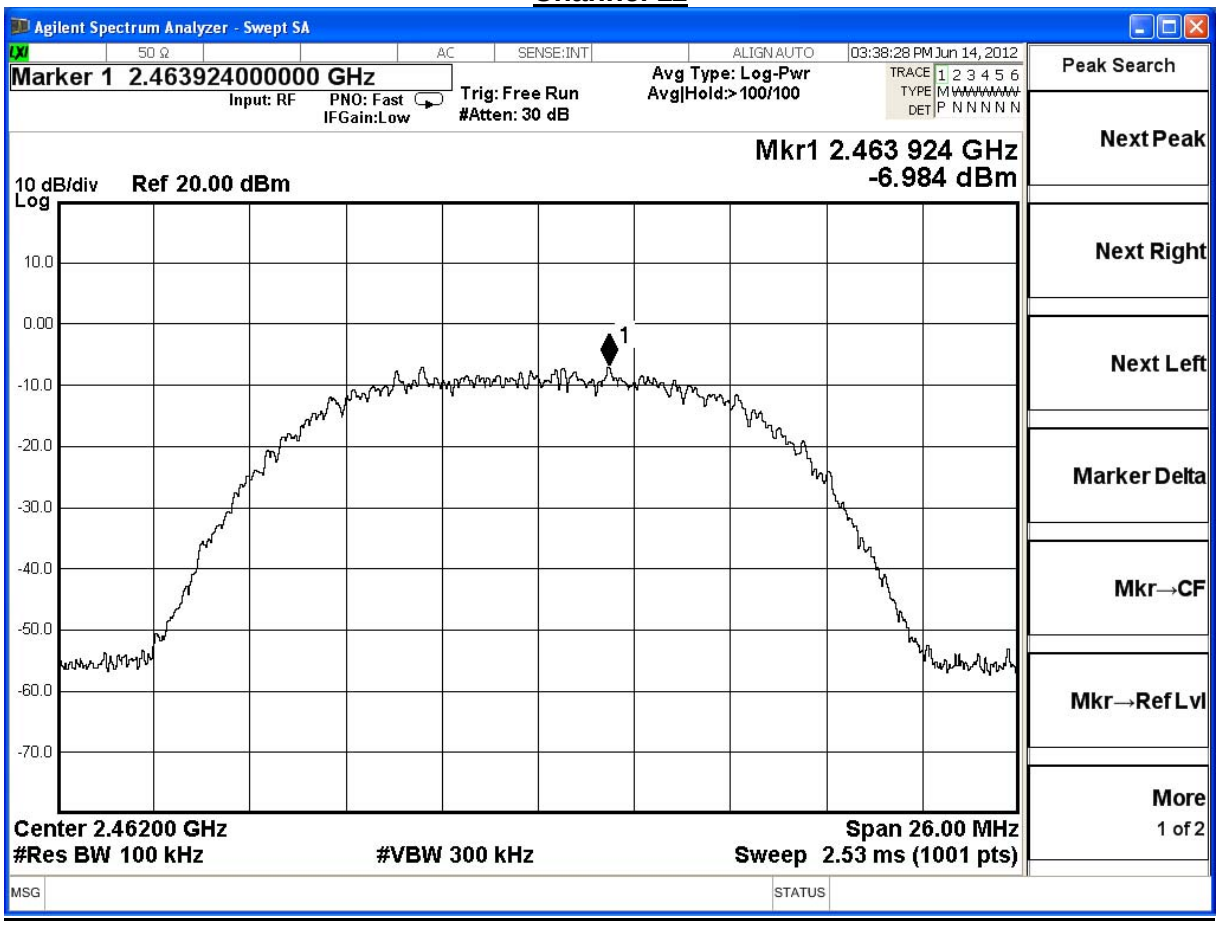
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:37:18 PM Jun 14, 2012
Marker 1 2.438898000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.438 898 GHz
-6.359 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:38:28 PM Jun 14, 2012
Marker 1 2.463924000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.463 924 GHz
-6.984 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

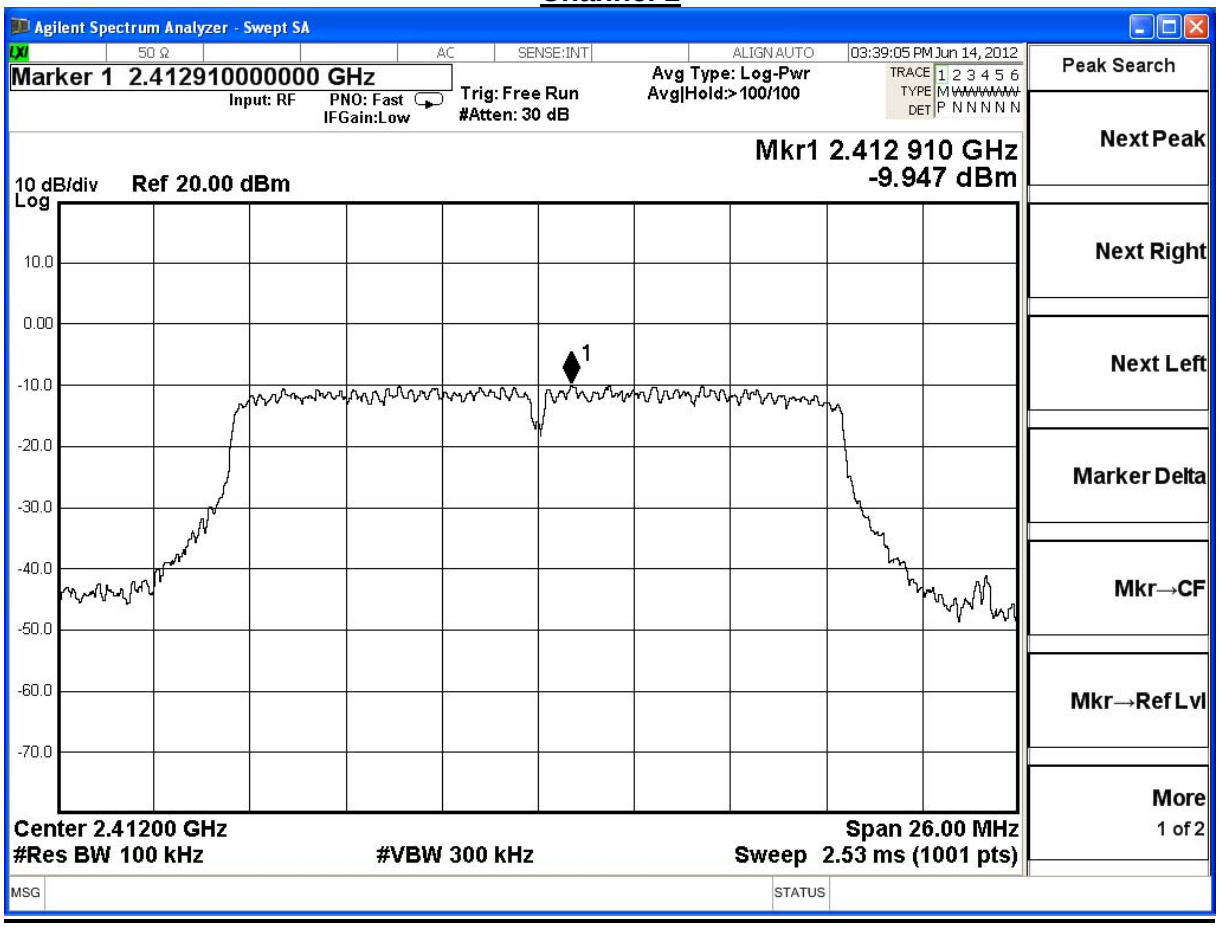
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11g					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-9.947	-25.147	≦8	Pass
6	2437	-9.747	-24.947	≦8	Pass
11	2462	-10.247	-25.447	≦8	Pass

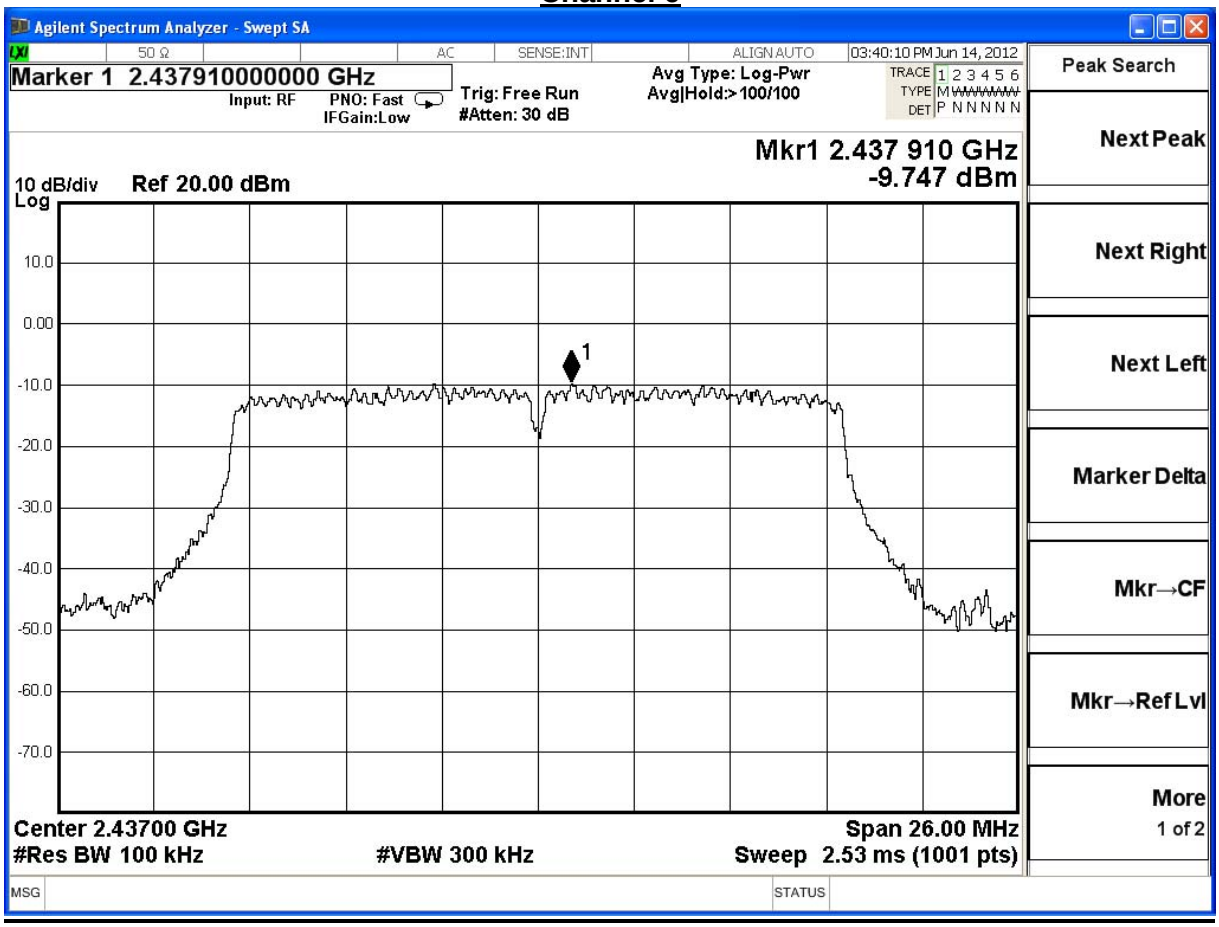
Note: Measure Level = Reading level + BWCF = Reading level -15.2 dB

Bandwidth correction factor (BWCF) = 10log (3 kHz/100kHz)

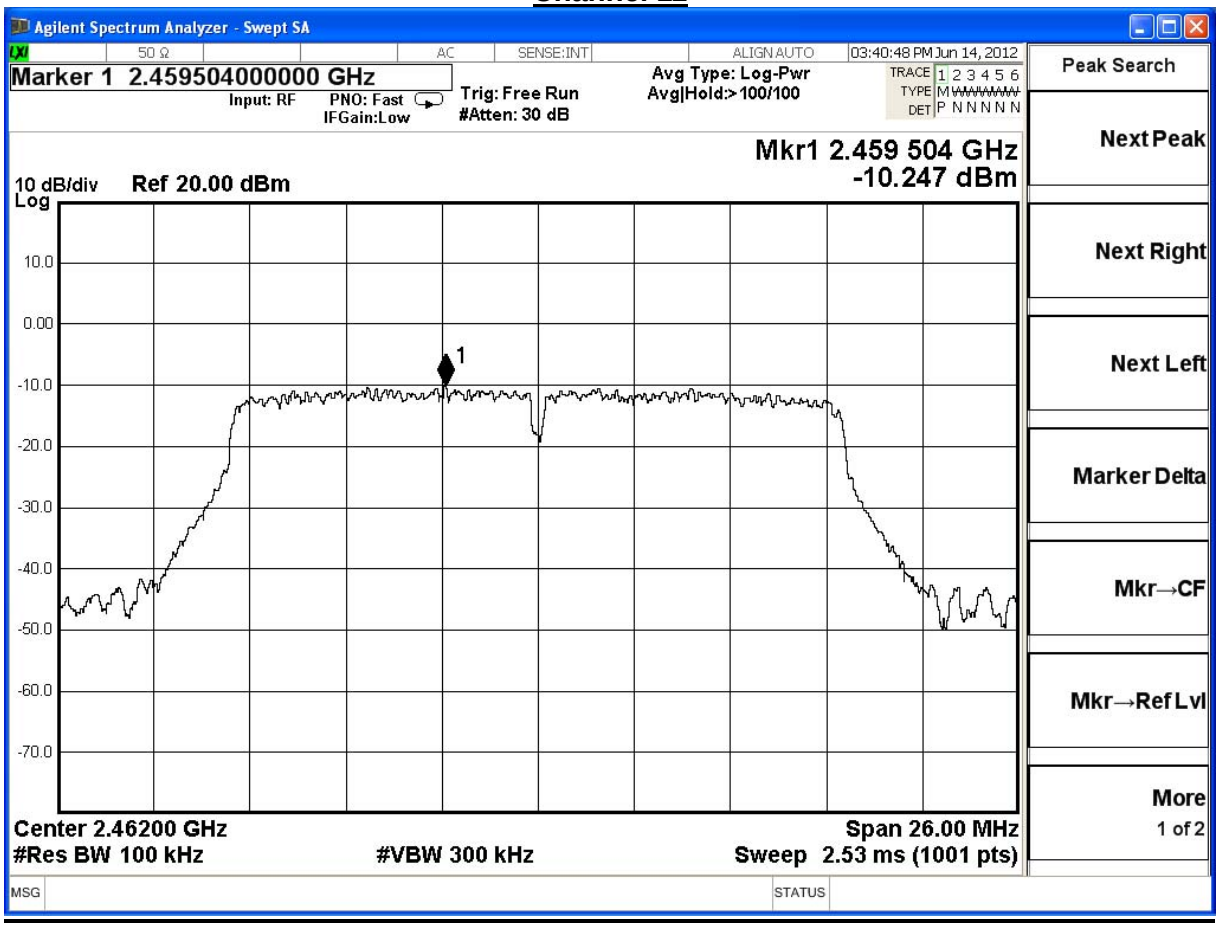
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:40:10 PM Jun 14, 2012
Marker 1 2.437910000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.437 910 GHz
-9.747 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

Channel 11


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:40:48 PM Jun 14, 2012
Marker 1 2.459504000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.459 504 GHz
-10.247 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

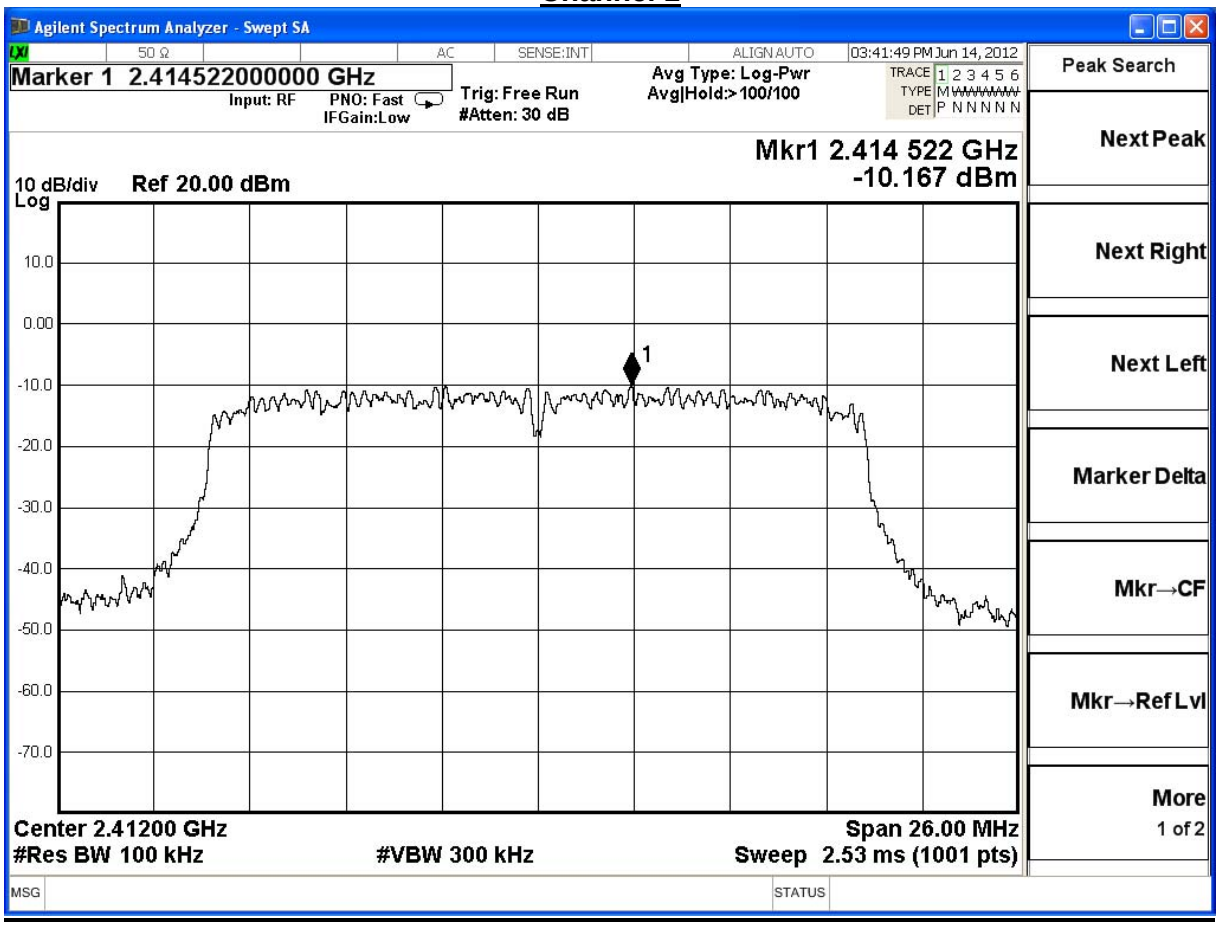
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (20M) ANT 0					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-10.167	-25.367	≦8	Pass
6	2437	-10.214	-25.414	≦8	Pass
11	2462	-9.896	-25.096	≦8	Pass

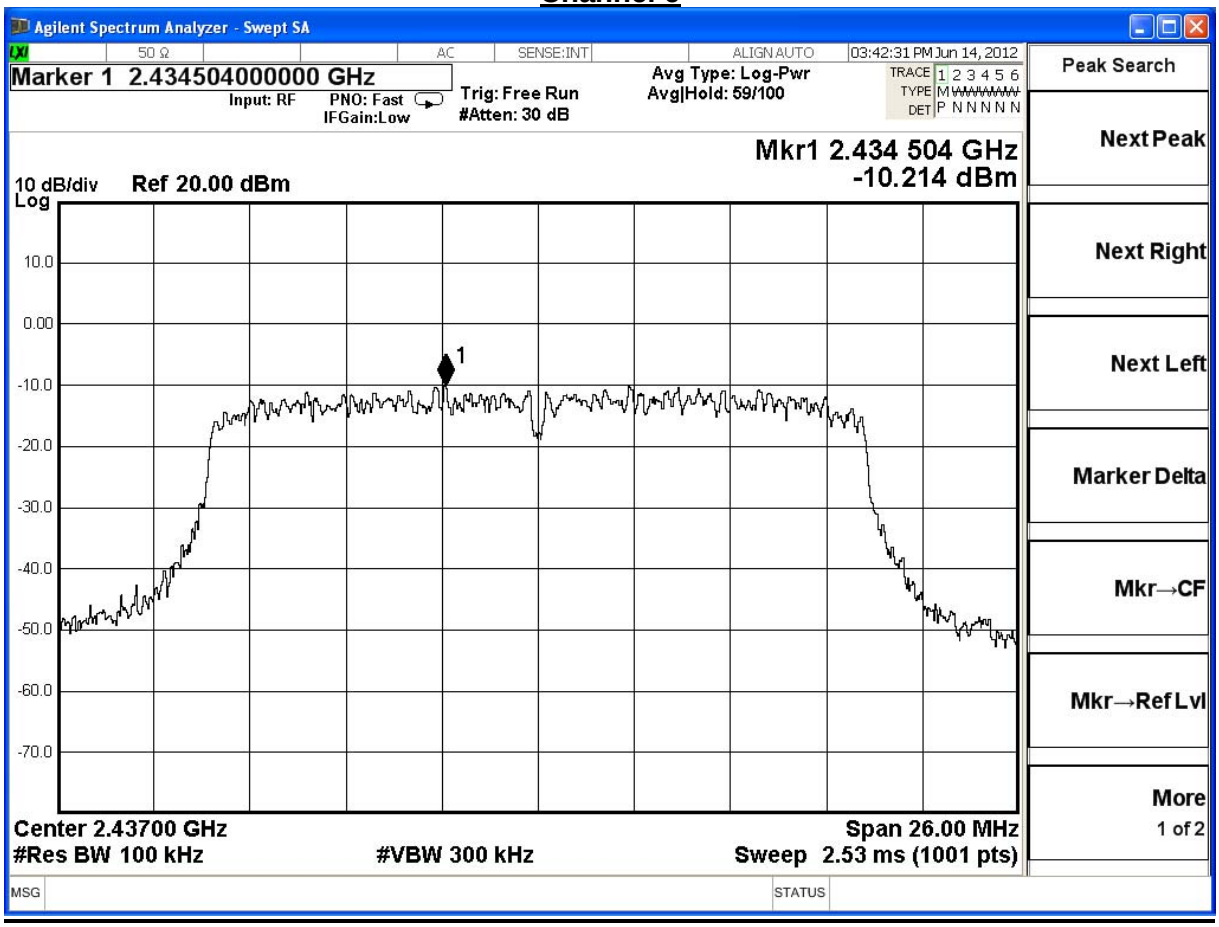
Note: Measure Level = Reading level + BWCF = Reading level -15.2 dB

Bandwidth correction factor (BWCF) = 10log (3 kHz/100kHz)

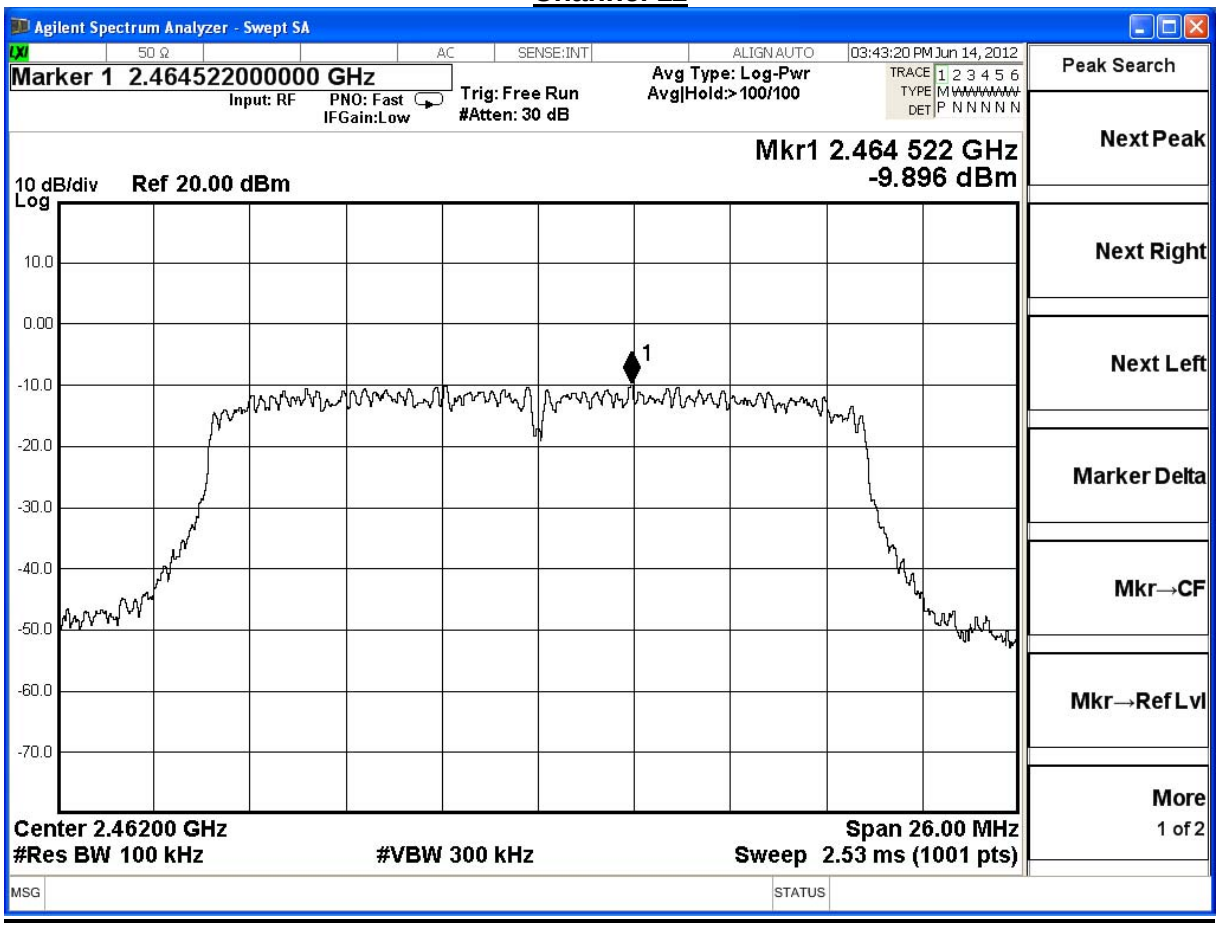
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:42:31 PM Jun 14, 2012
Marker 1 2.434504000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 59/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.434 504 GHz
-10.214 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

Channel 11


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:43:20 PM Jun 14, 2012
Marker 1 2.464522000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.464 522 GHz
-9.896 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

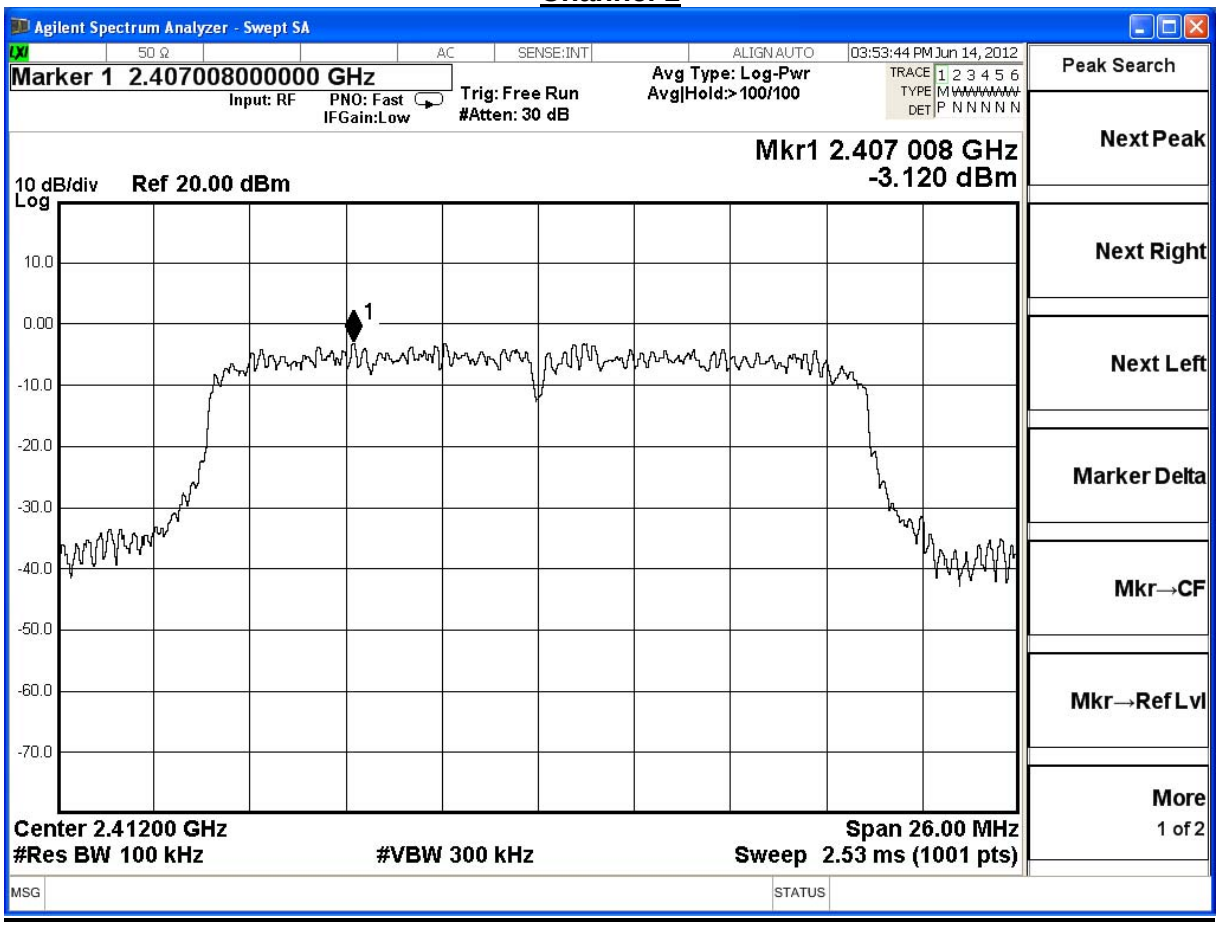
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (20M) ANT 1					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-3.120	-17.54	≦8	Pass
6	2437	-4.123	-18.37	≦8	Pass
11	2462	-4.560	-18.65	≦8	Pass

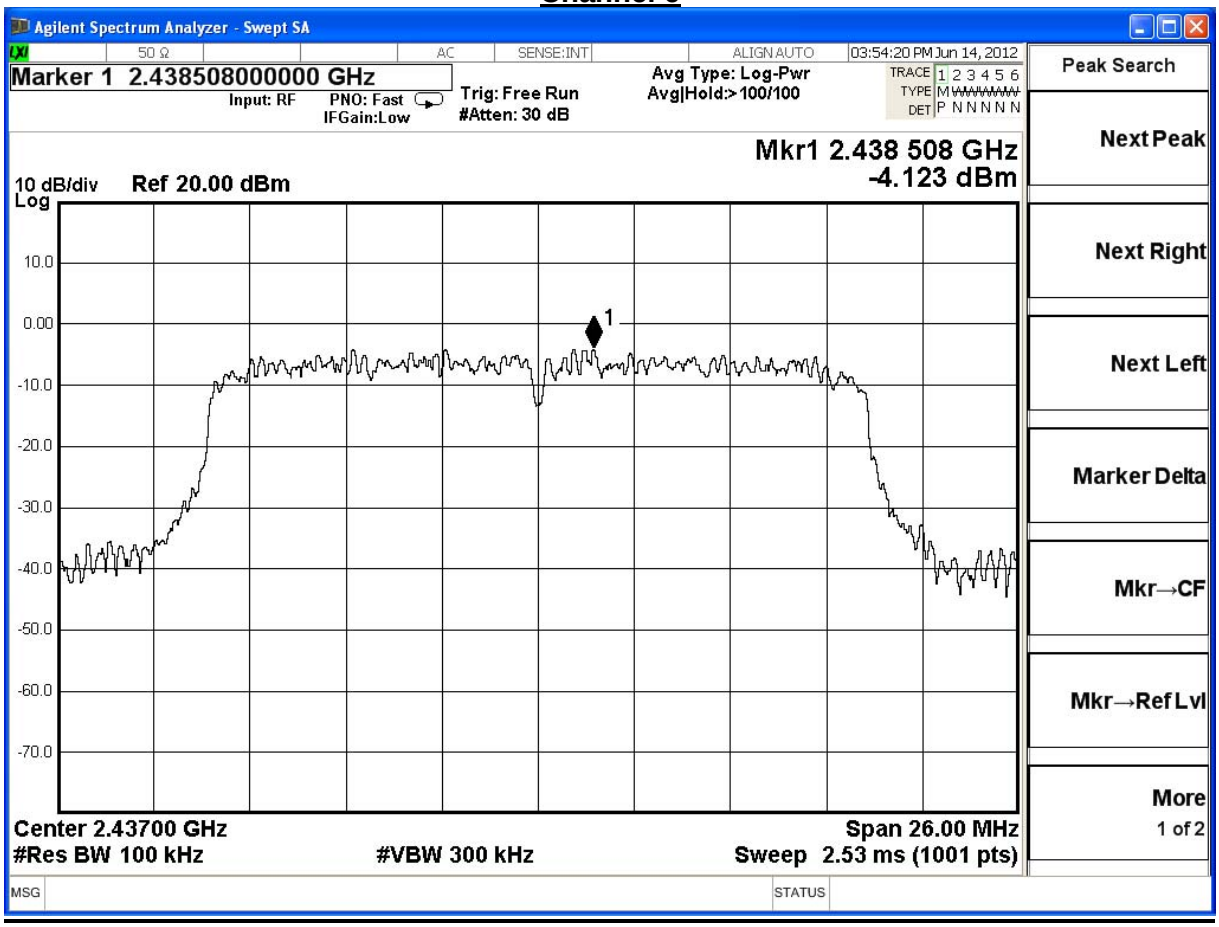
Note: Measure Level = Reading level + BWCF = Reading level -15.2 dB

Bandwidth correction factor (BWCF) = 10log (3 kHz/100kHz)

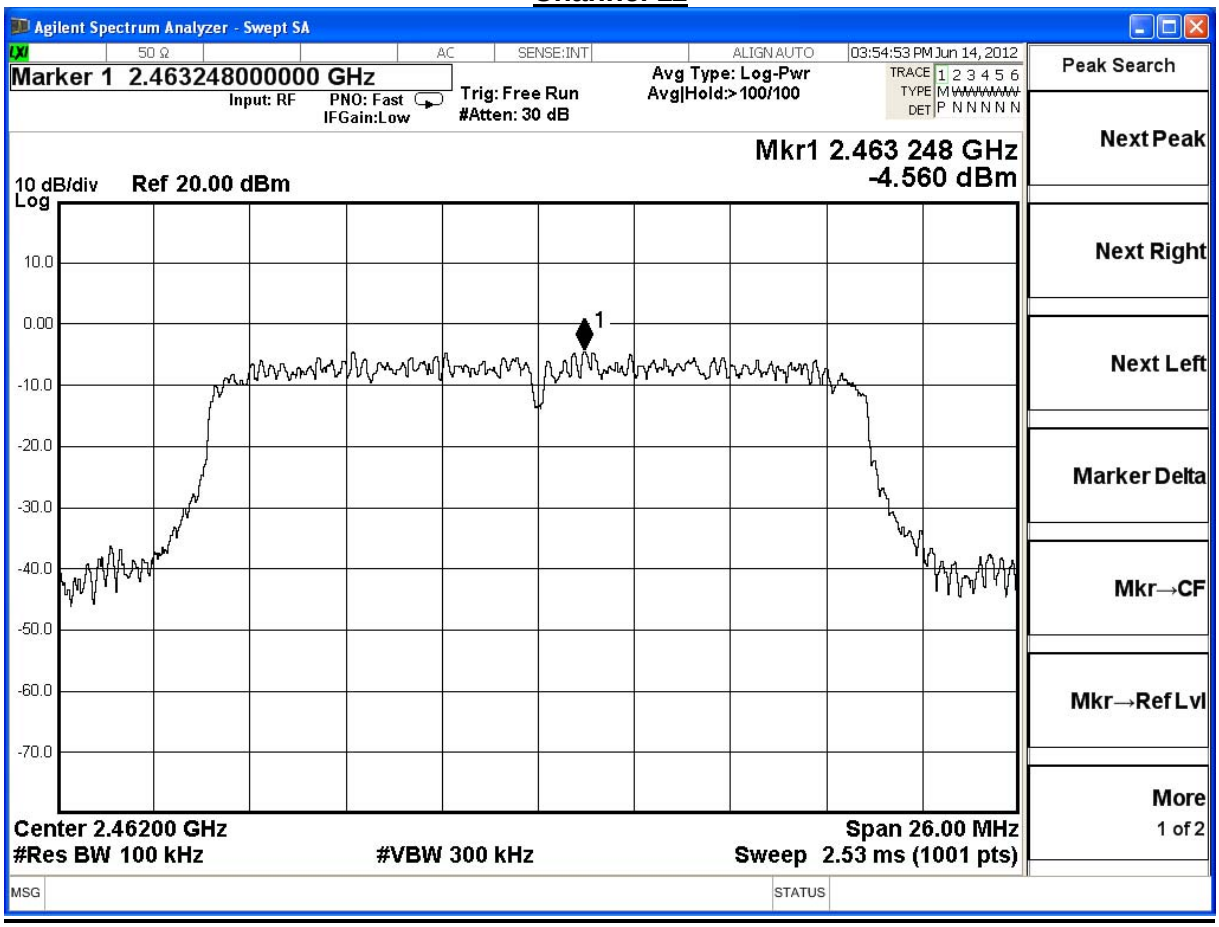
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:54:20 PM Jun 14, 2012
Marker 1 2.438508000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.438 508 GHz
-4.123 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

Channel 11


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:54:53 PM Jun 14, 2012
Marker 1 2.463248000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.463 248 GHz
-4.560 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

Product	VDSL2 Router with WLAN/VoIP		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (20M) ANT 0+1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-16.877	≦8	Pass
6	2437	-17.587	≦8	Pass
11	2462	-17.763	≦8	Pass

Note: Measure Level = Reading level + BWCF = Reading level -15.2 dB

Bandwidth correction factor (BWCF) = 10log (3 kHz/100kHz)

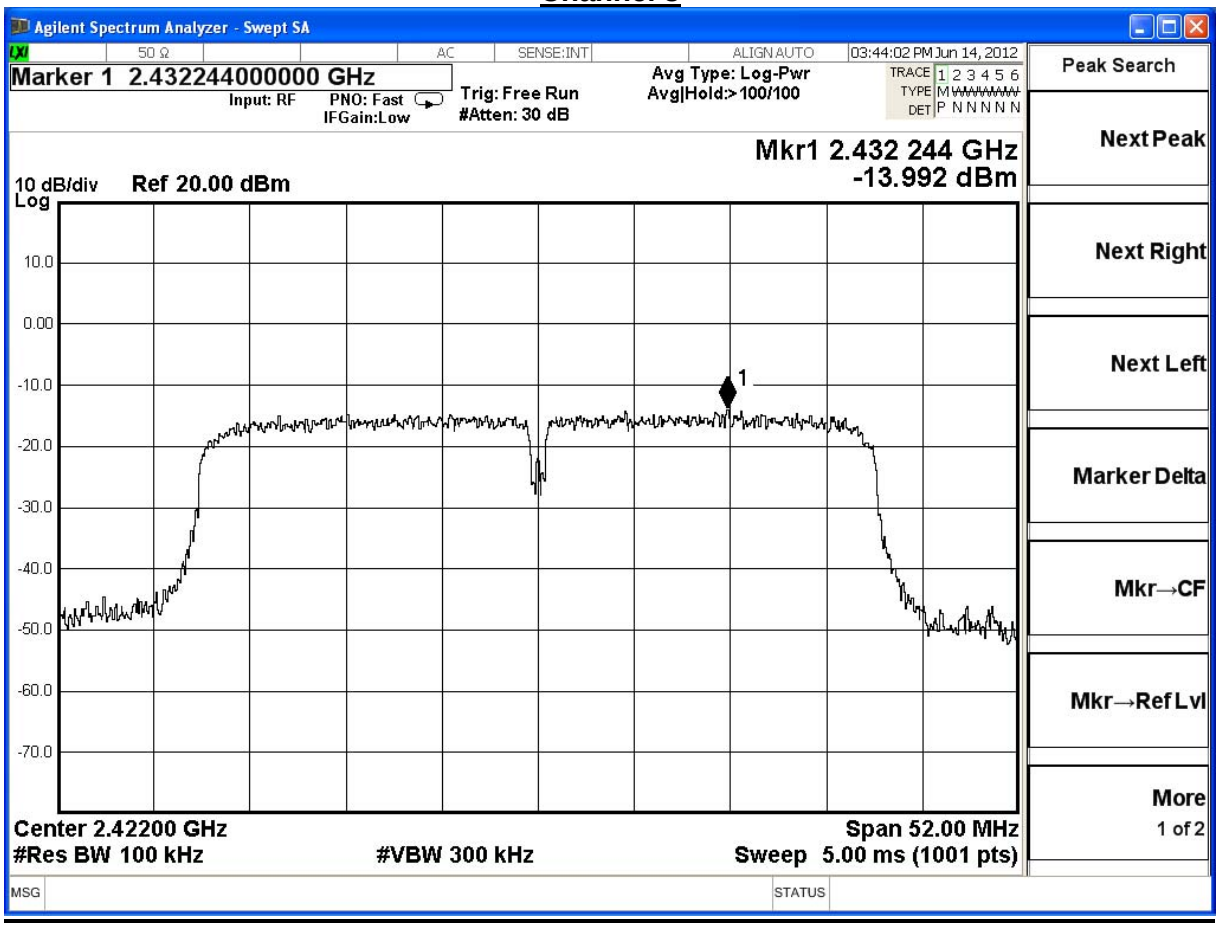
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2011/08/08	Test Site	SR7

IEEE 802.11n (40M) ANT 0					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-13.992	-29.192	≦8	Pass
6	2437	-13.930	-29.130	≦8	Pass
9	2452	-14.302	-29.502	≦8	Pass

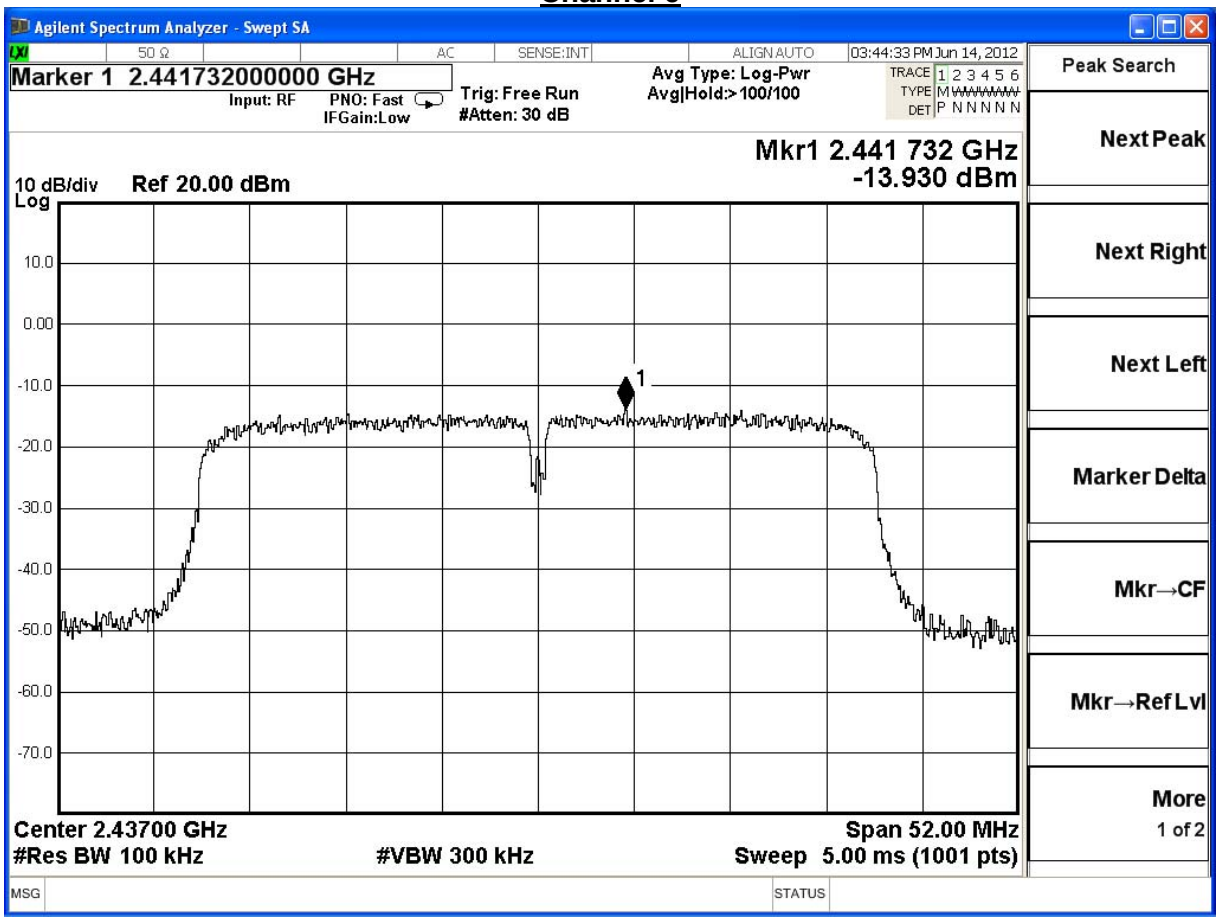
Note: Measure Level = Reading level + BWCF = Reading level -15.2 dB

Bandwidth correction factor (BWCF) = 10log (3 kHz/100kHz)

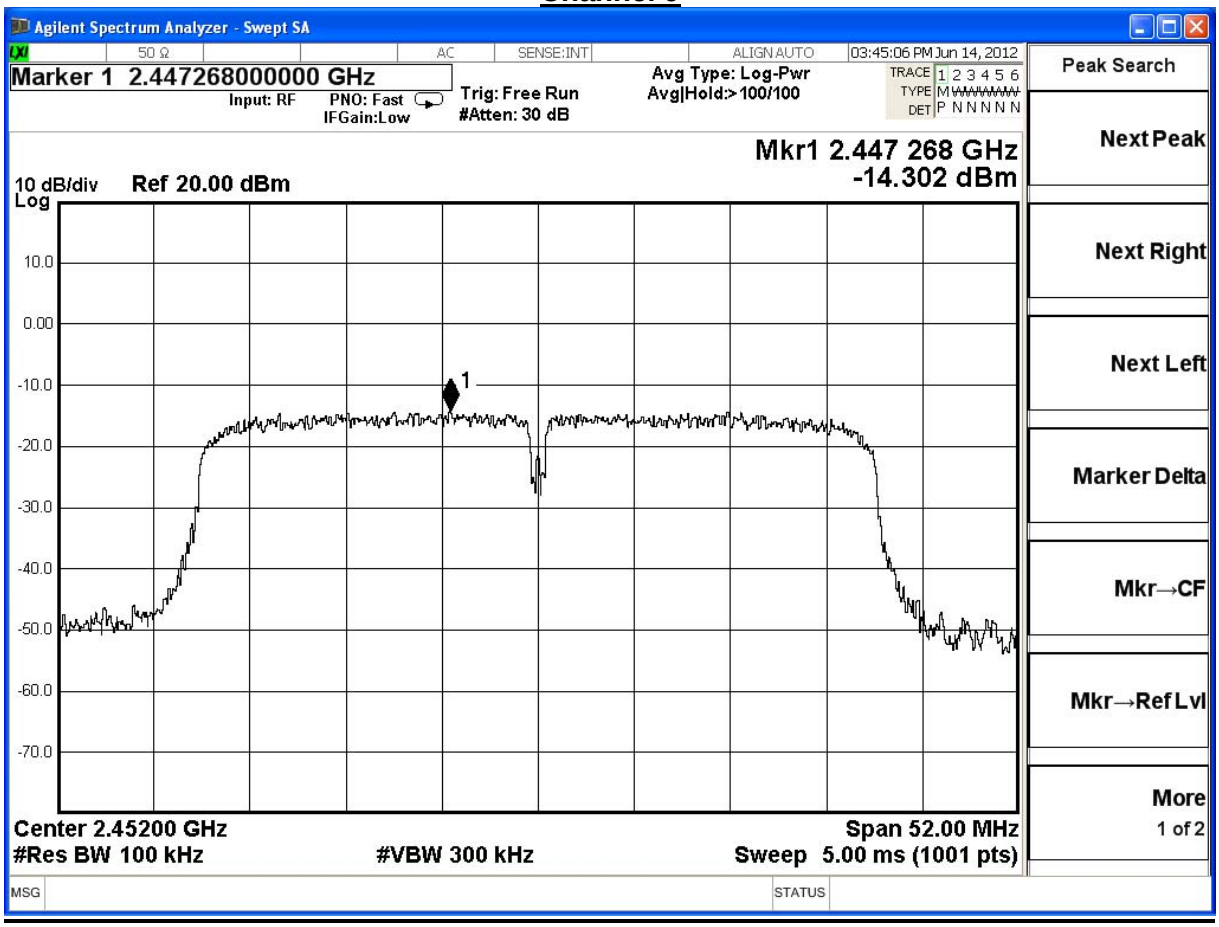
Channel 3



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:44:33 PM Jun 14, 2012
Marker 1 2.441732000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.441 732 GHz
-13.930 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

Channel 9


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:45:06 PM Jun 14, 2012
Marker 1 2.447268000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.447 268 GHz
-14.302 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

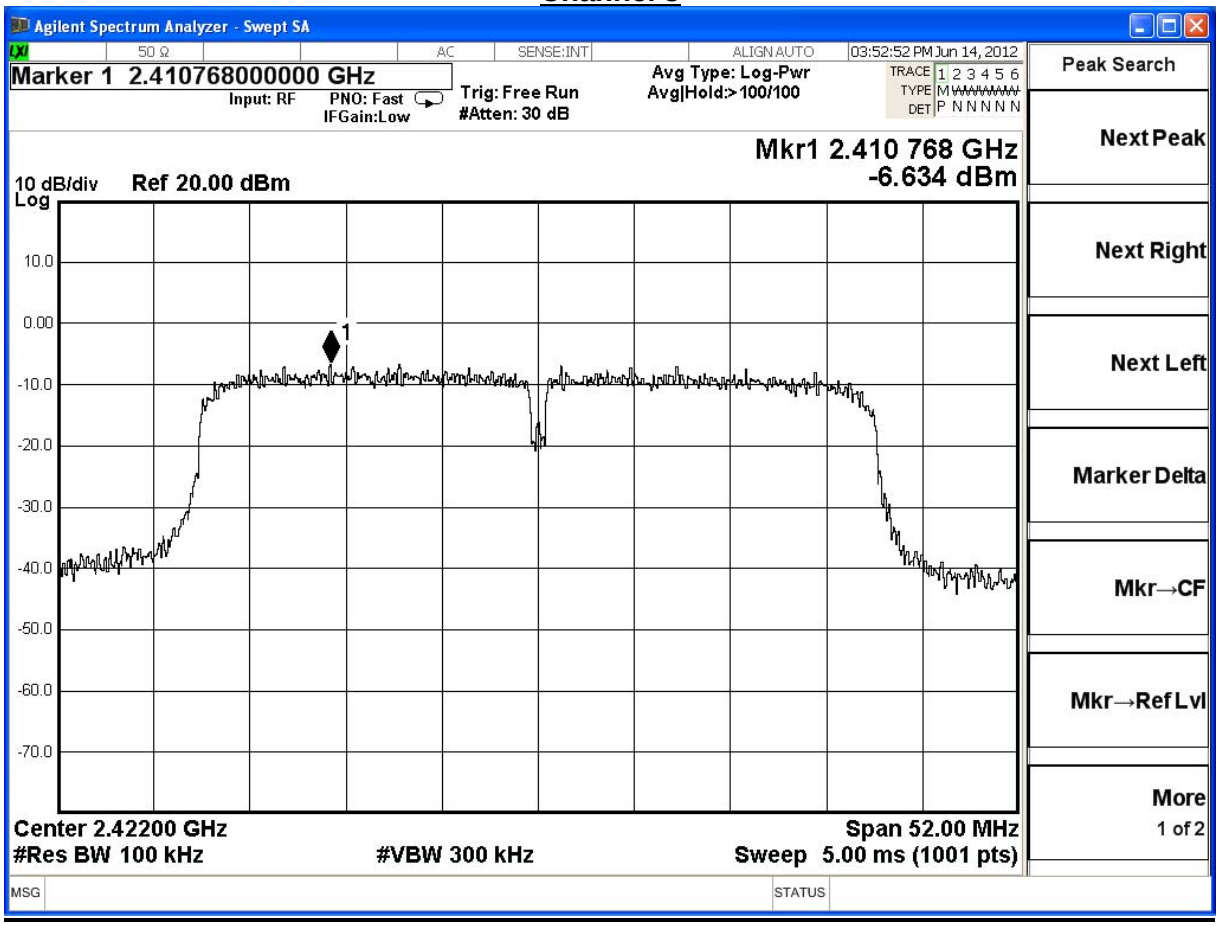
Product	VDSL2 Router with WLAN/VoIP		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (40M) ANT 1					
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-6.634	-21.834	≦8	Pass
6	2437	-7.511	-22.711	≦8	Pass
9	2452	-5.538	-20.738	≦8	Pass

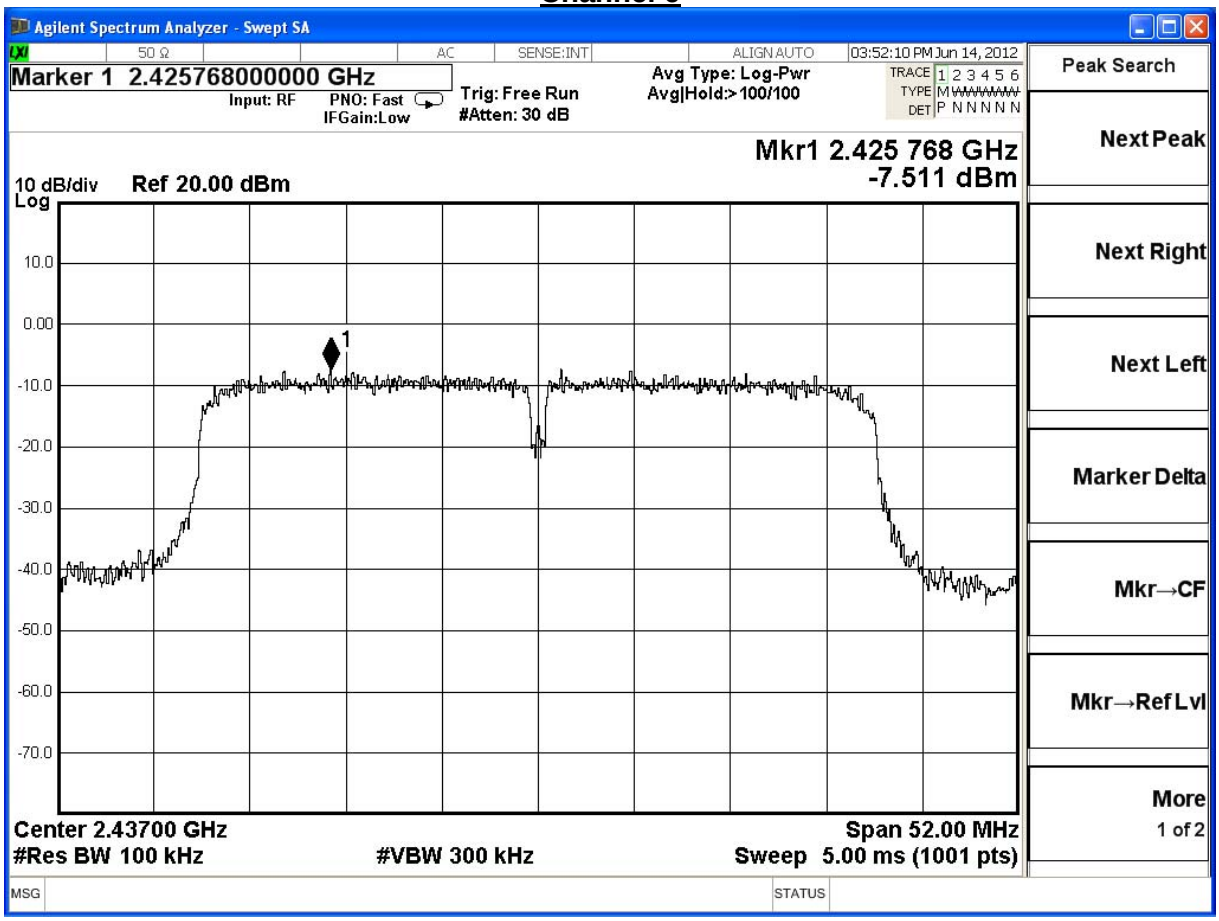
Note: Measure Level = Reading level + BWCF = Reading level -15.2 dB

Bandwidth correction factor (BWCF) = 10log (3 kHz/100kHz)

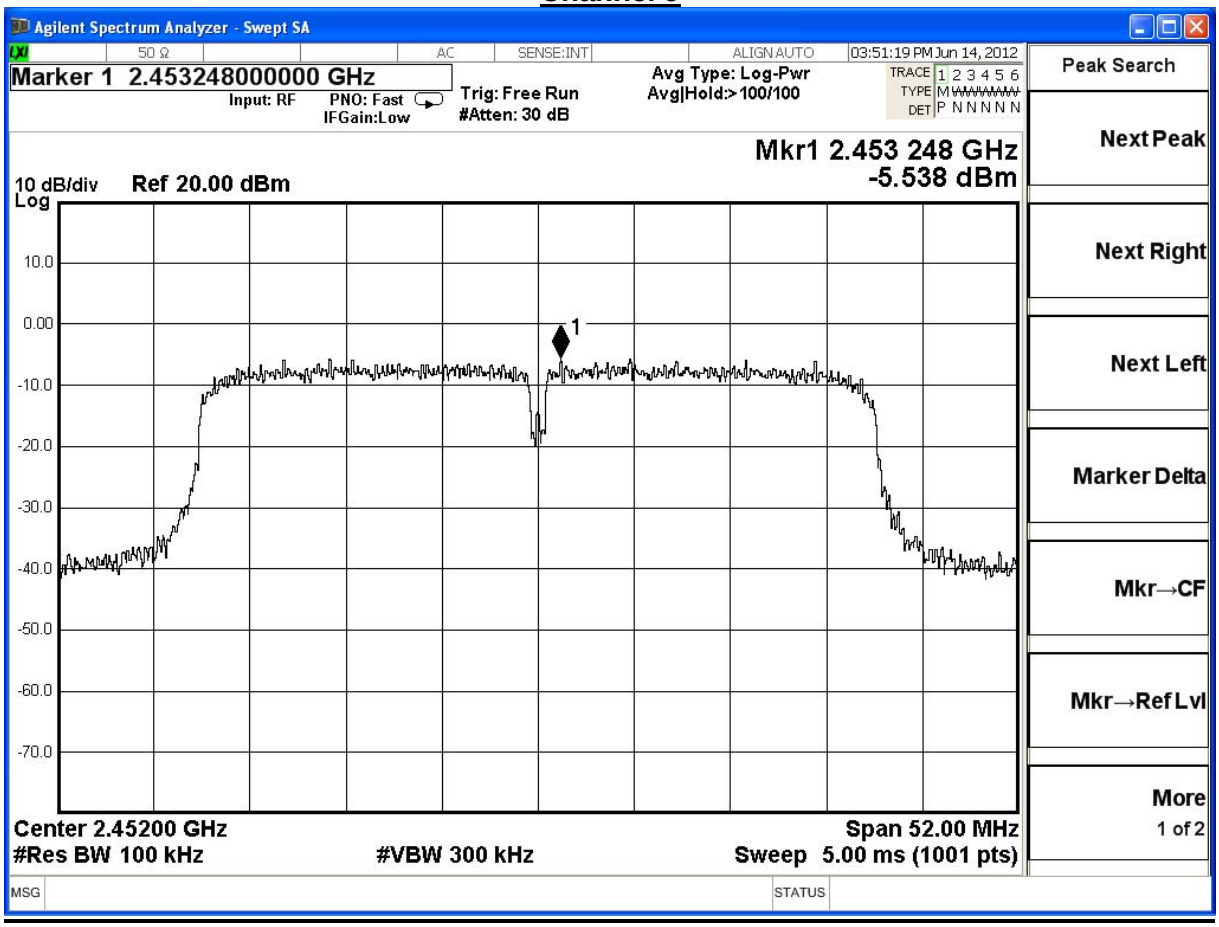
Channel 3



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:52:10 PM Jun 14, 2012
Marker 1 2.425768000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.425 768 GHz
-7.511 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:51:19 PM Jun 14, 2012
Marker 1 2.453248000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.453 248 GHz
-5.538 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
MSG
STATUS
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

Product	VDSL2 Router with WLAN/VoIP		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2012/06/14	Test Site	SR7

IEEE 802.11n (40M) ANT 0+1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-21.101	≦8	Pass
6	2437	-21.819	≦8	Pass
9	2452	-20.196	≦8	Pass

Note: Measure Level = Reading level + BWCF = Reading level -15.2 dB

Bandwidth correction factor (BWCF) = 10log (3 kHz/100kHz)