



Test Report

Product Name : VDSL2 Router with WLAN/VoIP
Model No. : Vigor2760, Vigor2760n, Vigor2760Vn
FCC ID. : VGYV2760VN

Applicant : DrayTek Corp.
Address : No.26 Fu Shing Rd., HuKou County,Hsin-Chu
Industrial Park,Hsin-Chu,Taiwan 303 R.O.C

Date of Receipt : 2012/03/24
Issued Date : 2012/07/11
Report No. : 123390R-RFUSP42V01
Report Version : V1.0

The test results relate only to the samples tested.
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Test Report Certification

Issued Date : 2012/07/11


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 Applicant : DrayTek Corp.
 Address : No.26 Fu Shing Rd., HuKou County,Hsin-Chu Industrial
 Park,Hsin-Chu,Taiwan 303 R.O.C
 Manufacturer : DrayTek Corp.
 Model No. : Vigor2760, Vigor2760n, Vigor2760Vn
 FCC ID. : VGYV2760VN
 EUT Voltage : AC 100-240V/47~63Hz
 Trade Name : DrayTek
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247:2011
 ANSI C63.4: 2009
 Test Result : Complied

The test results relate only to the samples tested.

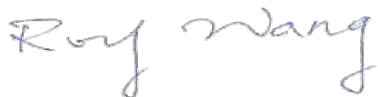
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1. General Information

1.1. EUT Description

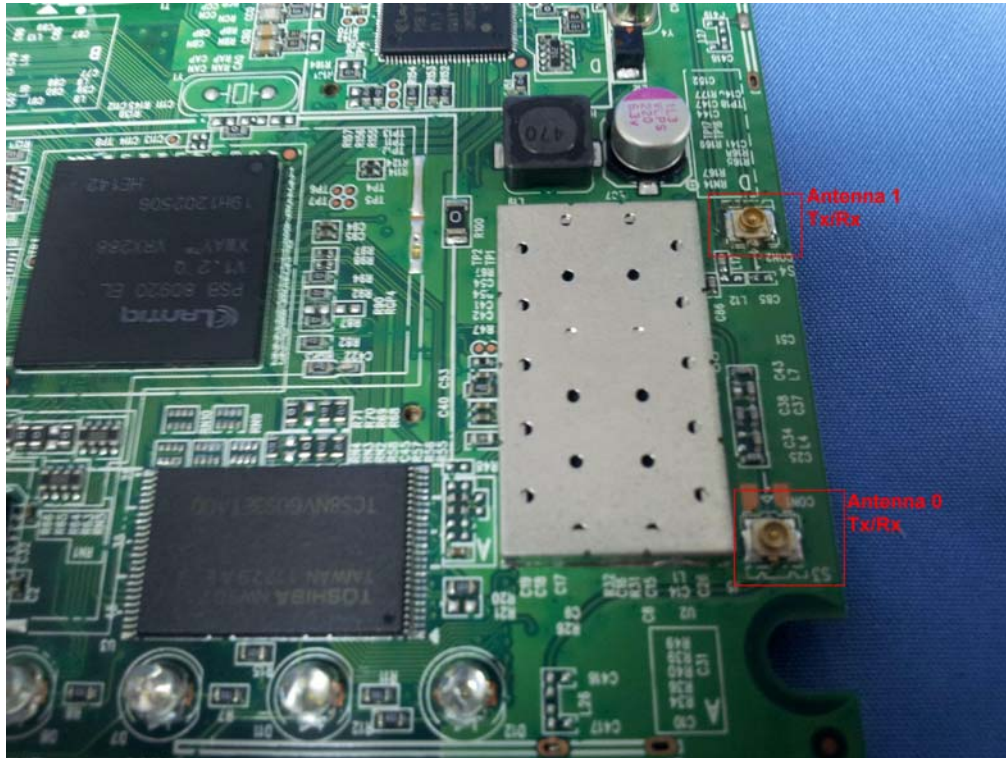
Product Name	VDSL2 Router with WLAN/VoIP
Product Type	WLAN (2TX, 2RX)
Trade Name	DrayTek
Model No.	Vigor2760, Vigor2760n, Vigor2760Vn
Frequency Range -IEEE 802.11b/g & IEEE 802.11n (20MHz)	2412~2462MHz
Frequency Range- IEEE 802.11n (40MHz)	2422~2452MHz
Channel Number (IEEE 802.11b/g & IEEE 802.11n (20MHz))	11
Channel Number- IEEE 802.11n (40MHz)	7
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g/n)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data Speed (IEEE 802.11n)	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n
Antenna Gain	Internal Antenna: 2.6dBi External Antenna: 2dBi
Channel Control	1. Manual 2. Auto
Antenna Type	Internal Antenna: FIFA External Antenna: Dipole

Component	
LAN Cable	Non-Shielded, 1.8m
DSL Cable	Non-Shielded, 1.8m
Power Adapter	CWT, SAG024F 3 I/P: 100V-240V/47~63Hz O/P: 12.0V \equiv 2.0A Cable Out: Non-Shielded, 1.5m
Power Adapter	CWT, CAP018121 I/P: 100V-240V/47~63Hz O/P: 12.0V \equiv 1.5A Cable Out: Non-Shielded, 1.5m

ANT-TX / Rx & Bandwidth

ANT-TX / RX	SINGLE-TX		TWO-TX		RX	
	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
IEEE802.11b	✓				✓	
IEEE802.11g	✓					
IEEE802.11n			✓	✓	✓	✓

ANT 0/1 (TX / RX)



IEEE802.11n Spec.

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI (Note1)	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI (Note1)	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 2 – MCS parameters for TX Antenna number = 2

Symbol	Explanation
R	Code rate
N _{BPSC}	Number of coded bits per single carrier
N _{CBPS}	Number of coded bits per symbol
N _{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

IEEE 802.11n (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz		

Note:

1. This device is a VDSL2 Router with WLAN/VoIP including 2.4GHz 11 b/g and 11n (2x2) transmitting and receiving function.
2. The different of the each model is shown as below:

Model name	LAN (10/100/1000)	WAN VDSL2 / ADSL2+	VOIP	USB Port	WLAN 11b/g/n
Vigor2760	4	1	-	2	-
Vigor2760n	4	1	-	2	v
Vigor2760Vn	4	1	v	2	v

3. These test results on a sample of the device are for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247.
4. Regards to the frequency band operation; the lowest 、 middle and highest frequency of channel were selected to perform the test, and then shown on this report.
5. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 123390R-RFUSP37V02 under Declaration of Conformity.

1.3. Test Mode

Quietek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3) Mode 2: Transmit (Internal Antenna, Adapter: CAP018121) Mode 3: Transmit (External Antenna, Adapter: SAG024F 3) Mode 4: Transmit (External Antenna, Adapter: CAP018121)
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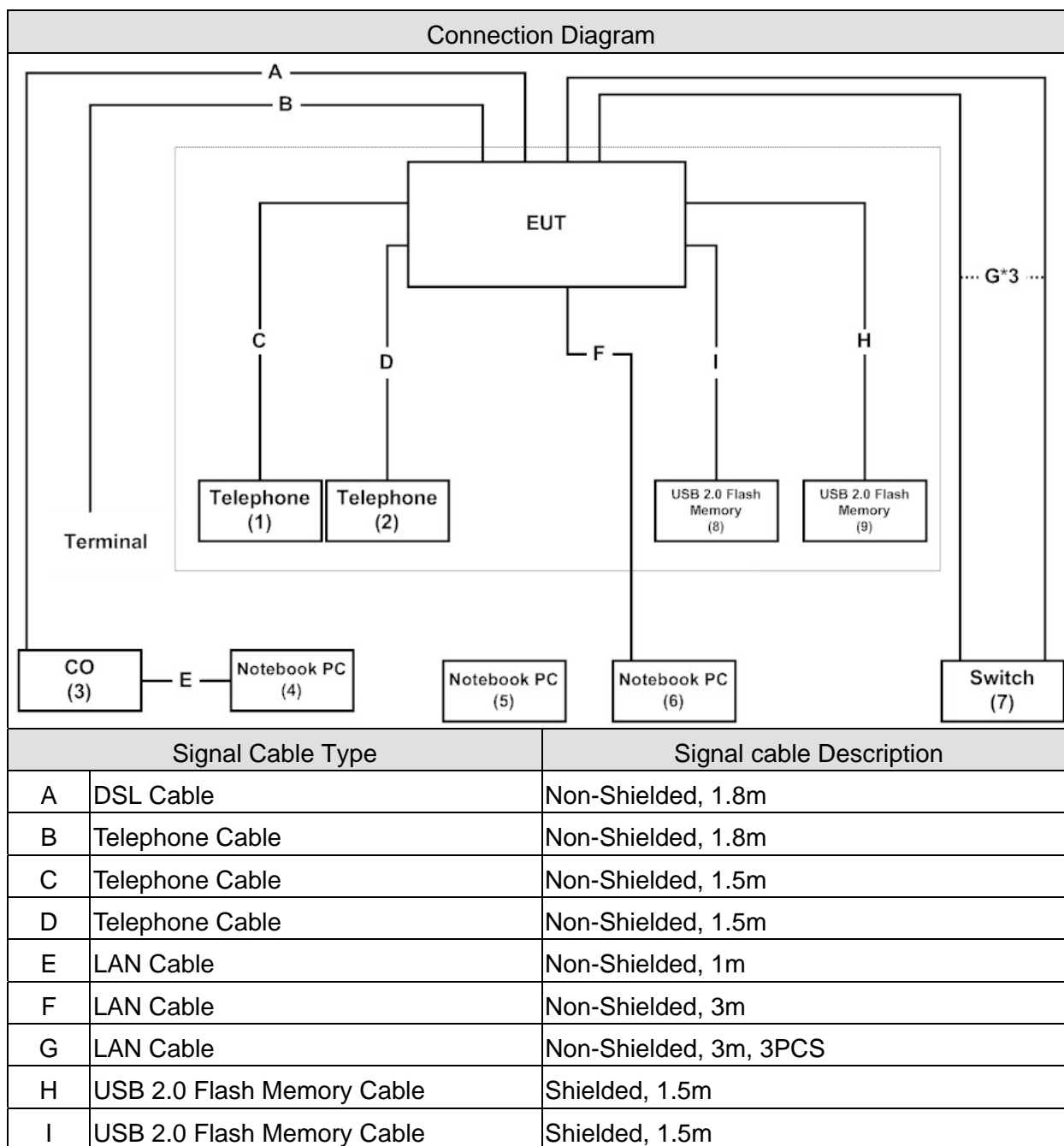
Test Items	Mode		Channel	Result
Conducted Emission	1/2	11n (40MHz)	6	Complies
Peak Power Output	1	b/g	1 /6/ 11	Complies
	1	11n(20MHz)	1 /6/ 11	Complies
	1	11n(40MHz)	3 /6/ 9	Complies
Radiated Emission (Under 1GHz)	1/2/3/4	b/g	6	Complies
	1/2/3/4	11n(20MHz)	6	Complies
	1/2/3/4	11n(40MHz)	6	Complies
Radiated Emission (Above 1GHz)	1/3	b/g	1 /6/ 11	Complies
	1/3	11n(20MHz)	1 /6/ 11	Complies
	1/3	11n(40MHz)	3 /6/ 9	Complies
RF antenna conducted test	1	b/g	1 /11	Complies
	1	11n(20MHz)	1 /11	Complies
	1	11n(40MHz)	3 /9	Complies
Radiated Emission Band Edge	1	b/g	1 /11	Complies
	1	11n(20MHz)	1 /11	Complies
	1	11n(40MHz)	3 /9	Complies
Occupied Bandwidth	1	b/g	1 /6/ 11	Complies
	1	11n(20MHz)	1 /6/ 11	Complies
	1	11n(40MHz)	3 /6/ 9	Complies
Power Density	1	b/g	1 /6/ 11	Complies
	1	11n(20MHz)	1 /6/ 11	Complies
	1	11n(40MHz)	3 /6/ 9	Complies

1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Telephone	TENDEL	K-302	41230008000054	DoC	--
2 Telephone	TENDEL	K-302	50721005000976	DoC	--
3 CO	Vigoe	2750	N/A	DoC	--
4 Notebook PC	ACER	MS2296	LUSCV02139115 0332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded
5 Notebook PC	ACER	PAV70	LUSEW0D03711 05FE221601	DoC	Non-Shielded, 2.5m one ferrite core bonded
6 Notebook PC	DELL	Precision M65	28G9NIS	DoC	Non-Shielded, 1.8m
7 Switch	D-Link	DGS1216 T	F360298000076	DoC	Non-Shielded, 1.8m
8 USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--
9 USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5
2	Execute the MFG Control Panel V1.4.0.0 which is installed in the Notebook PC.
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" to start the continuous transmitting.
5	Verify that the EUT works properly.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (DSSS)	15 - 35	23
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test (DSSS)	15 - 35	23
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	23
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	23
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	23
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description: September 27, 2010 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by TAF
Accreditation Number: 1313
Effective through: December 27, 2013



Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2012



Site Name: Quietek Corporation
Site Address: No. 75-2, 3rd Lin, Wangye Keng, Yonghxing
Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan
TEL : 886-3-5928858 / FAX : 886-3-5928859
E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

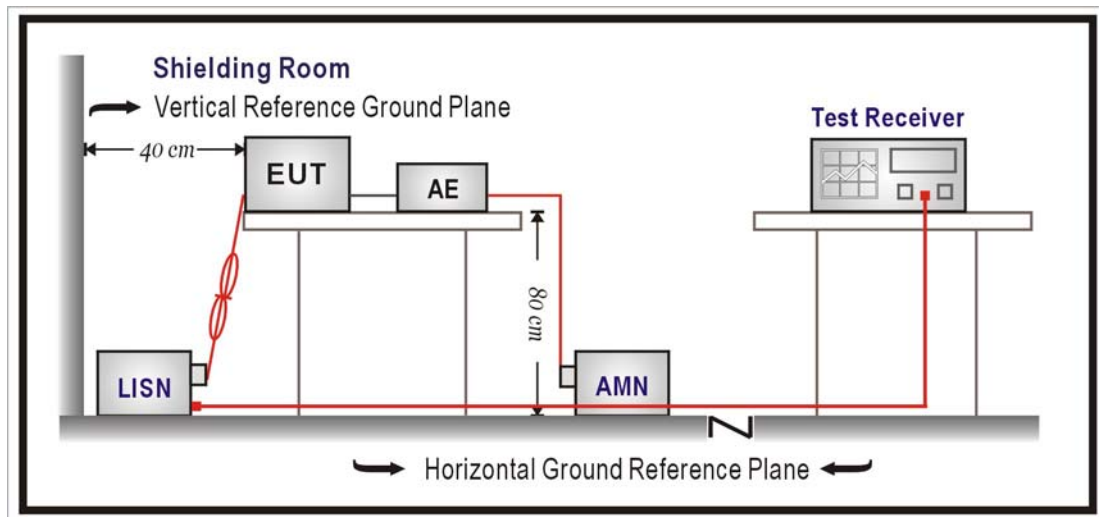
The following test equipments are used during the test:

Conducted Emission/ SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2012/09/06
LISN	R&S	ESH3-Z5	836679/022	2013/02/06
Test Receiver	R&S	ESCS 30	825442/017	2013/01/01

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

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. 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 was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

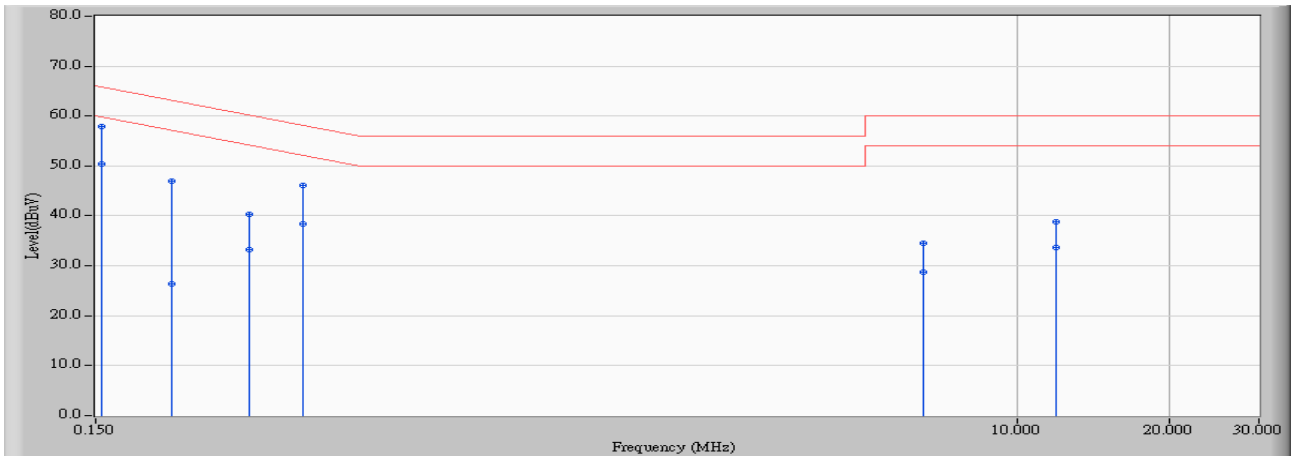
According to FCC Part 15 Subpart C Paragraph 15.207: 2011

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2012/06/17 - 13:34
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A)-1_0907 - Line1	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)

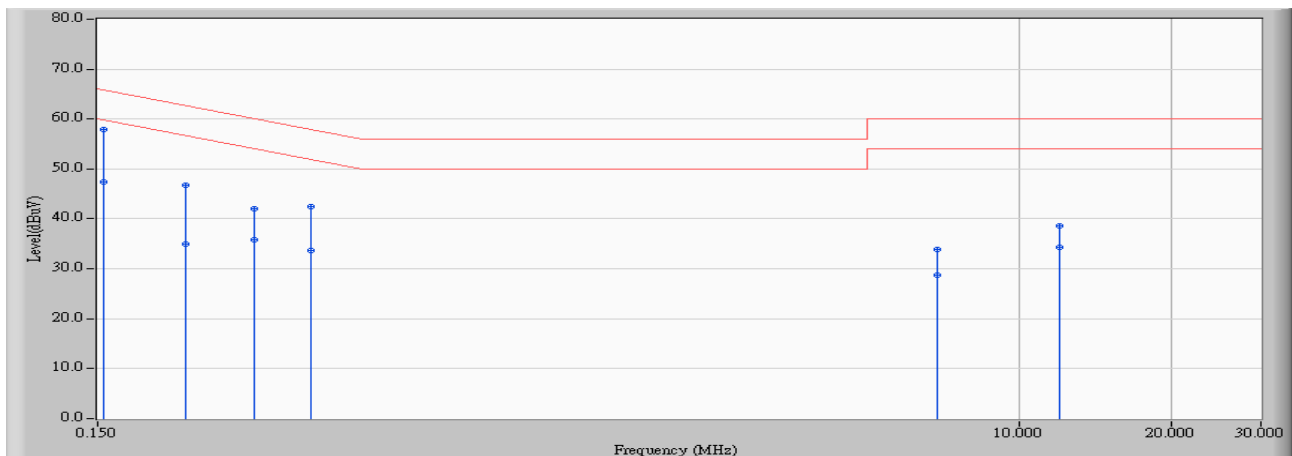


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.154	9.655	48.260	57.915	-7.872	65.786	QUASPEAK
2	* 0.154	9.655	40.740	50.395	-5.392	55.786	AVERAGE
3	0.212	9.659	37.400	47.059	-16.048	63.107	QUASPEAK
4	0.212	9.659	16.710	26.369	-26.738	53.107	AVERAGE
5	0.302	9.672	30.670	40.342	-19.837	60.178	QUASPEAK
6	0.302	9.672	23.580	33.252	-16.927	50.178	AVERAGE
7	0.384	9.683	36.530	46.213	-11.971	58.184	QUASPEAK
8	0.384	9.683	28.760	38.443	-9.741	48.184	AVERAGE
9	6.502	10.080	24.500	34.580	-25.420	60.000	QUASPEAK
10	6.502	10.080	18.680	28.760	-21.240	50.000	AVERAGE
11	11.916	10.180	28.740	38.920	-21.080	60.000	QUASPEAK
12	11.916	10.180	23.410	33.590	-16.410	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR3	Time : 2012/06/17 - 13:37
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A)-1_0907 - Line2	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)

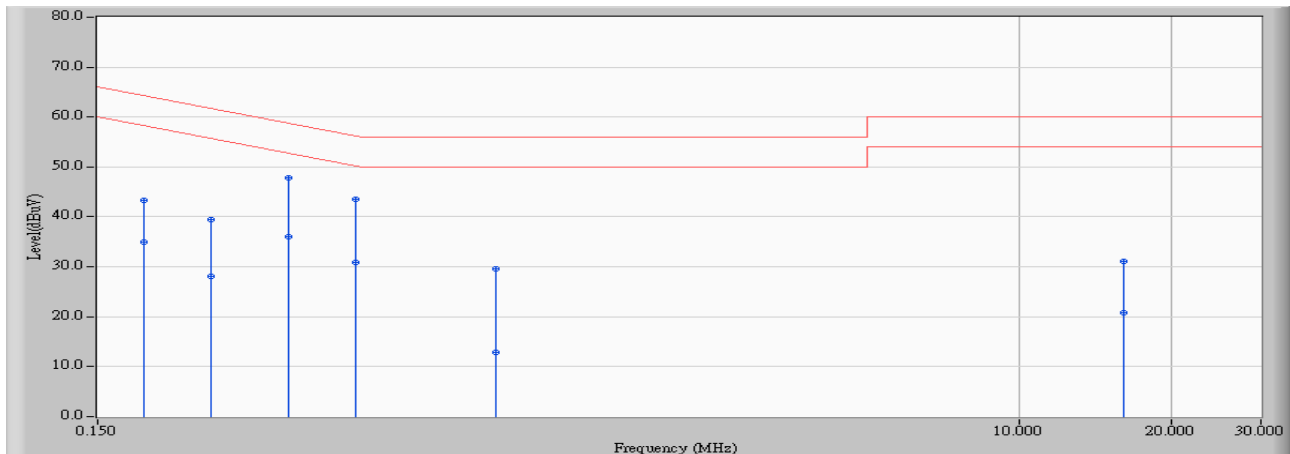


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.665	48.280	57.945	-7.842	65.786	QUASPEAK
2		0.154	9.665	37.670	47.335	-8.452	55.786	AVERAGE
3		0.224	9.670	37.190	46.860	-15.801	62.661	QUASPEAK
4		0.224	9.670	25.190	34.860	-17.801	52.661	AVERAGE
5		0.306	9.682	32.250	41.932	-18.139	60.072	QUASPEAK
6		0.306	9.682	26.160	35.842	-14.229	50.072	AVERAGE
7		0.396	9.695	32.700	42.395	-15.540	57.935	QUASPEAK
8		0.396	9.695	24.010	33.705	-14.230	47.935	AVERAGE
9		6.888	10.124	23.810	33.935	-26.065	60.000	QUASPEAK
10		6.888	10.124	18.570	28.695	-21.305	50.000	AVERAGE
11		11.998	10.262	28.360	38.622	-21.378	60.000	QUASPEAK
12		11.998	10.262	24.000	34.262	-15.738	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR3	Time : 2012/06/17 - 13:51
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A)-1_0907 - Line1	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)

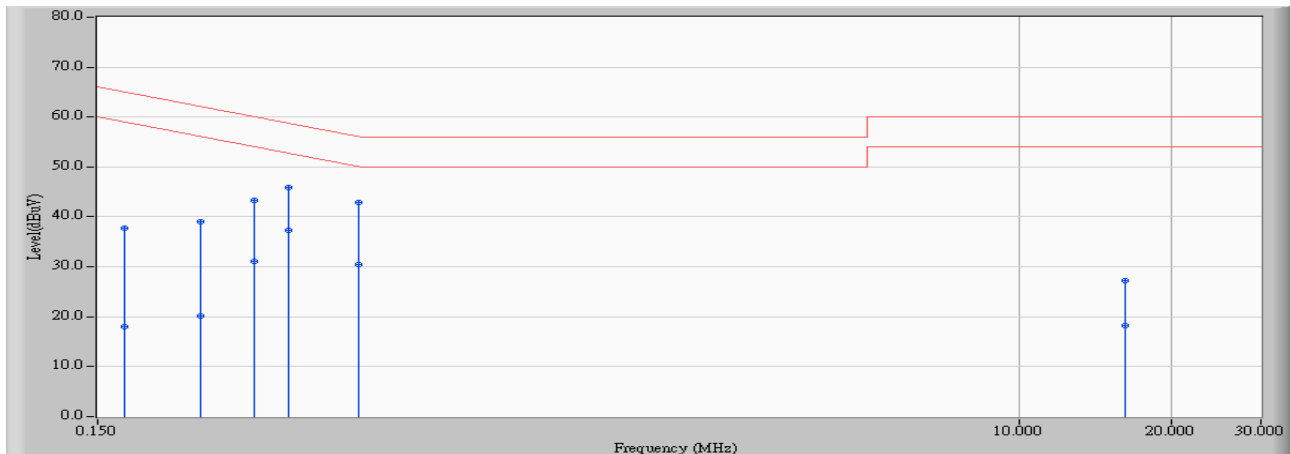


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.185	9.656	33.640	43.296	-20.955	64.251	QUASPEAK
2	0.185	9.656	25.200	34.856	-19.395	54.251	AVERAGE
3	0.252	9.664	29.800	39.464	-22.241	61.705	QUASPEAK
4	0.252	9.664	18.450	28.114	-23.591	51.705	AVERAGE
5	* 0.357	9.679	38.070	47.749	-11.048	58.797	QUASPEAK
6	0.357	9.679	26.280	35.959	-12.838	48.797	AVERAGE
7	0.486	9.699	33.830	43.529	-12.708	56.237	QUASPEAK
8	0.486	9.699	21.260	30.959	-15.278	46.237	AVERAGE
9	0.920	9.768	19.770	29.537	-26.463	56.000	QUASPEAK
10	0.920	9.768	3.140	12.907	-33.093	46.000	AVERAGE
11	16.052	10.268	20.930	31.198	-28.802	60.000	QUASPEAK
12	16.052	10.268	10.430	20.698	-29.302	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR3	Time : 2012/06/17 - 13:47
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A)-1_0907 – Line2	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.170	9.656	28.080	37.736	-27.248	64.983	QUASPEAK
2	0.170	9.656	8.400	18.056	-36.928	54.983	AVERAGE
3	0.240	9.663	29.470	39.133	-22.969	62.102	QUASPEAK
4	0.240	9.663	10.420	20.083	-32.019	52.102	AVERAGE
5	0.306	9.672	33.730	43.402	-16.669	60.072	QUASPEAK
6	0.306	9.672	21.440	31.112	-18.959	50.072	AVERAGE
7	0.357	9.679	36.310	45.989	-12.808	58.797	QUASPEAK
8	* 0.357	9.679	27.720	37.399	-11.398	48.797	AVERAGE
9	0.494	9.701	33.270	42.971	-13.134	56.104	QUASPEAK
10	0.494	9.701	20.840	30.541	-15.564	46.104	AVERAGE
11	16.189	10.269	16.990	27.259	-32.741	60.000	QUASPEAK
12	16.189	10.269	7.870	18.139	-31.861	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Peak Power Output

3.1. Test Equipment

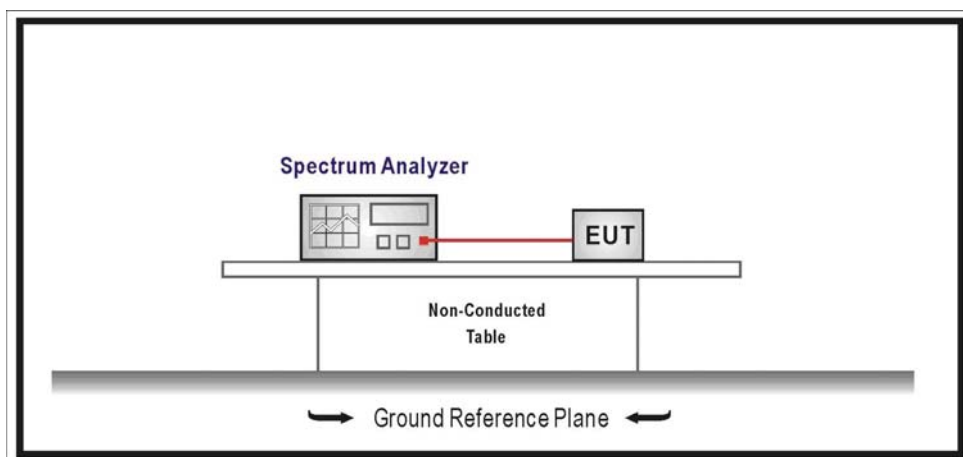
The following test equipments are used during the test:

Peak Power / 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.

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure of Jan. 2012 KDB558074, Section 5.2.1.2 Measurement Procedure PK2 for compliance to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

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

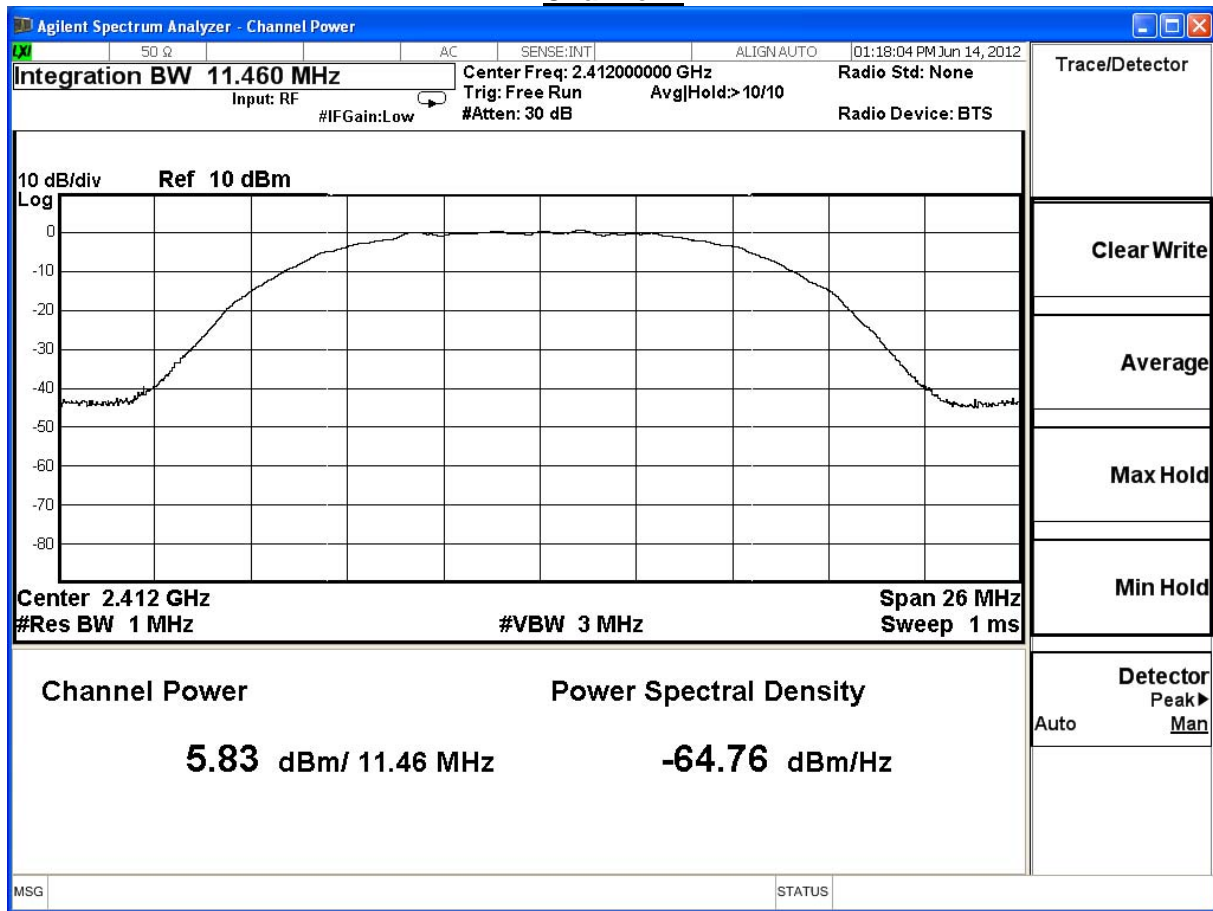
IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	5.83	1Watt= 30 dBm	Pass
6	2437	5.64	1Watt= 30 dBm	Pass
11	2462	5.09	1Watt= 30 dBm	Pass

The worst emission of data rate is 1 Mbps.

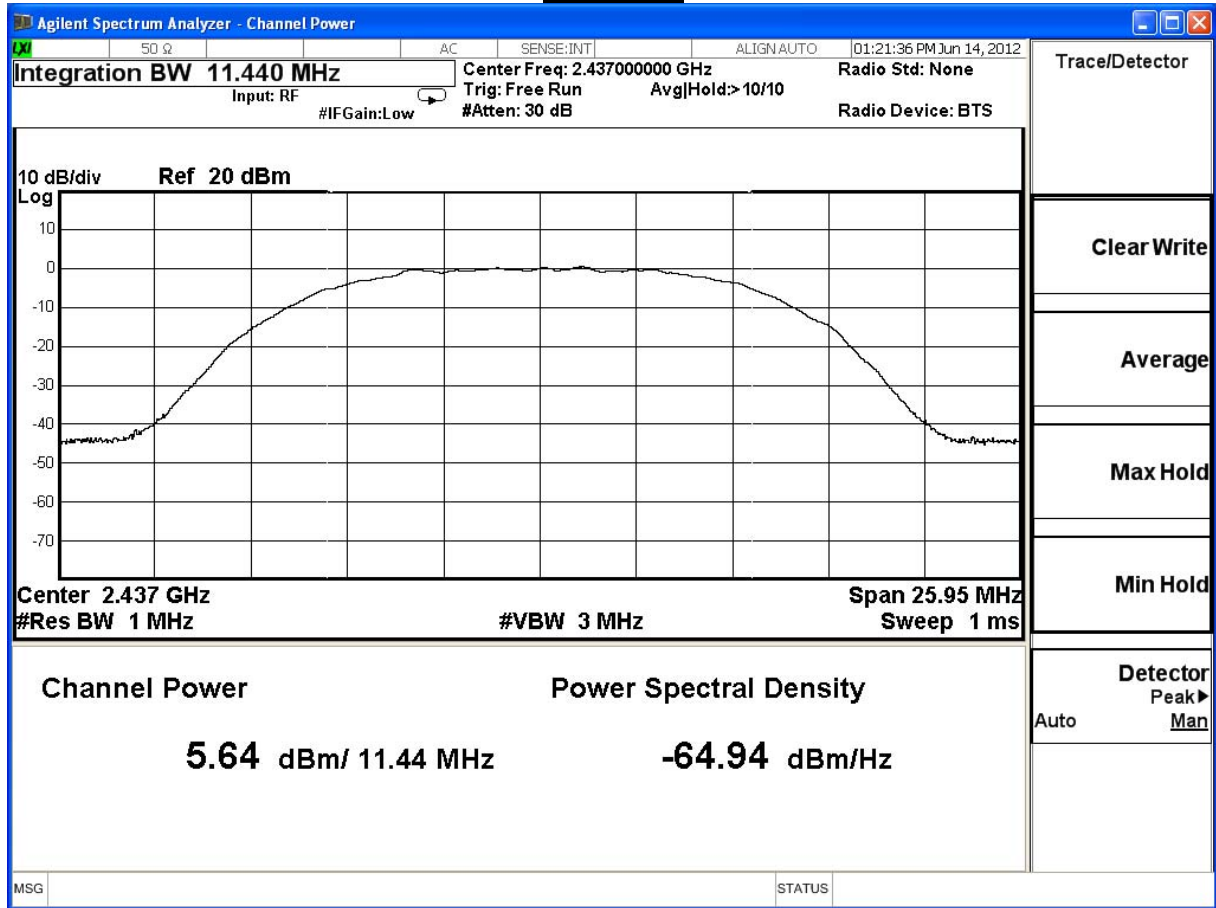
Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	5.83	--	--	--	1Watt= 30 dBm
6	2437	5.64	5.52	5.24	5.40	1Watt= 30 dBm
11	2462	5.09	--	--	--	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

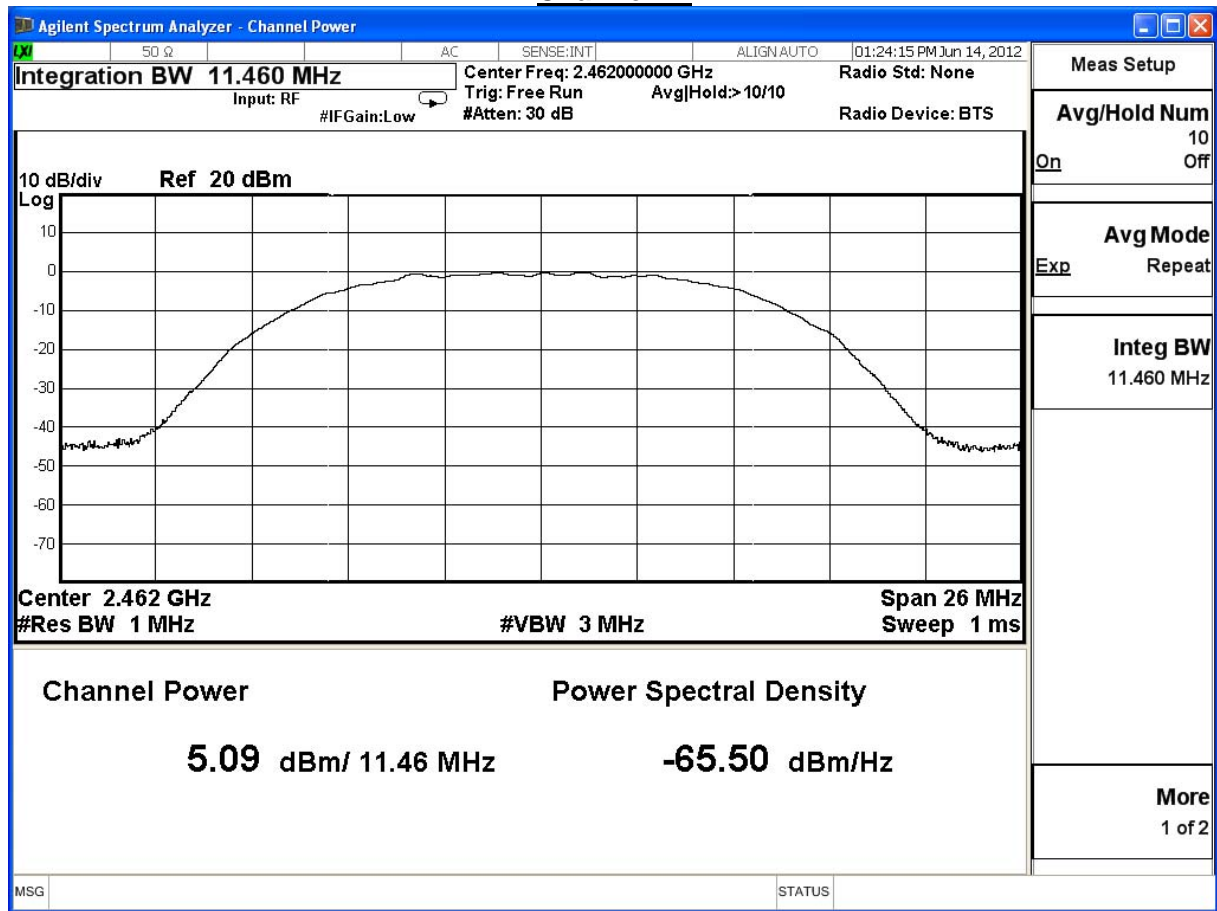
Channel 1



Channel 6



Channel 11



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

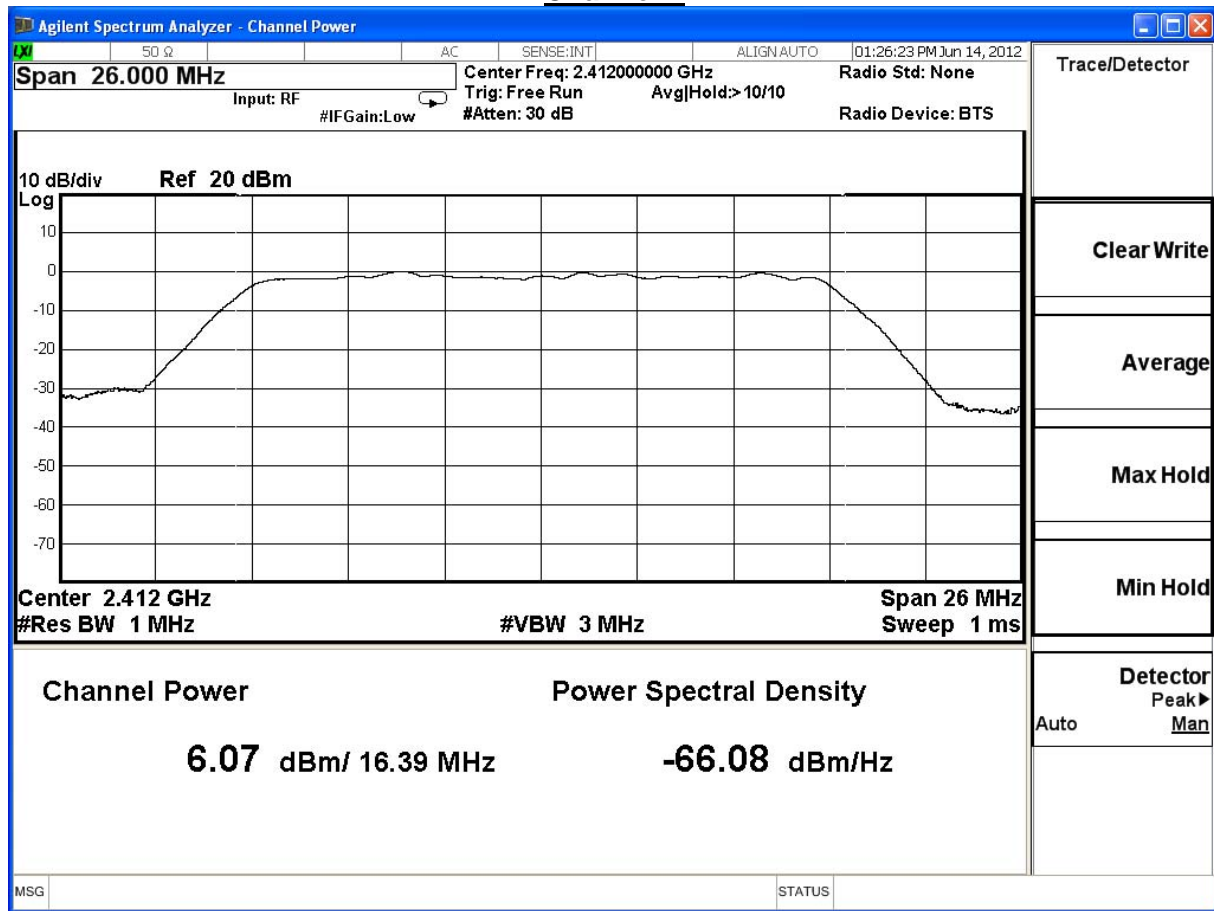
IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	6.07	1Watt= 30 dBm	Pass
6	2437	5.85	1Watt= 30 dBm	Pass
11	2462	5.60	1Watt= 30 dBm	Pass

The worst emission of data rate is 6 Mbps.

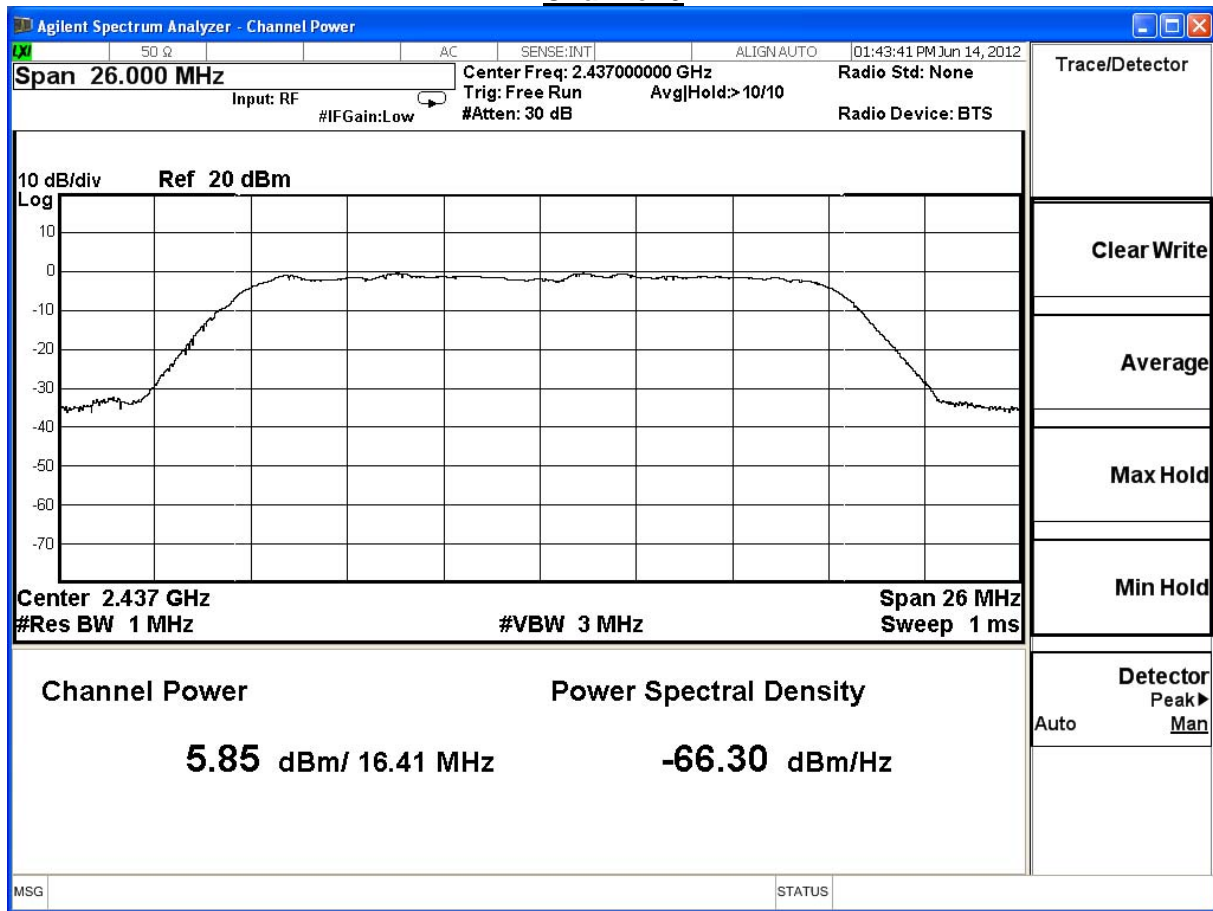
Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	6.07	--	--	--	--	--	--	1Watt= 30 dBm
6	2437	5.85	4.81	5.31	4.82	4.55	3.64	3.07	1Watt= 30 dBm
11	2462	5.60	--	--	--	--	--	--	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

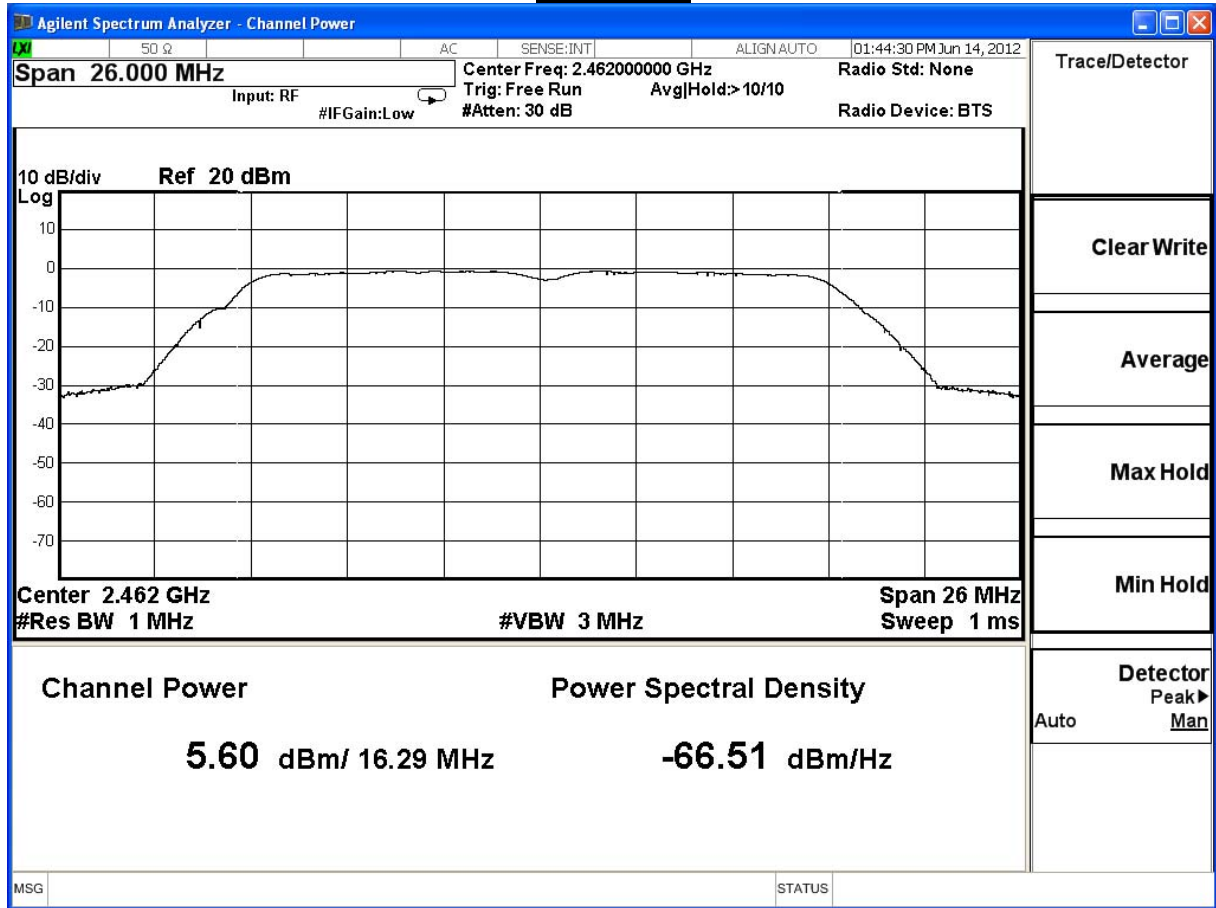
Channel 1



Channel 6



Channel 11



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

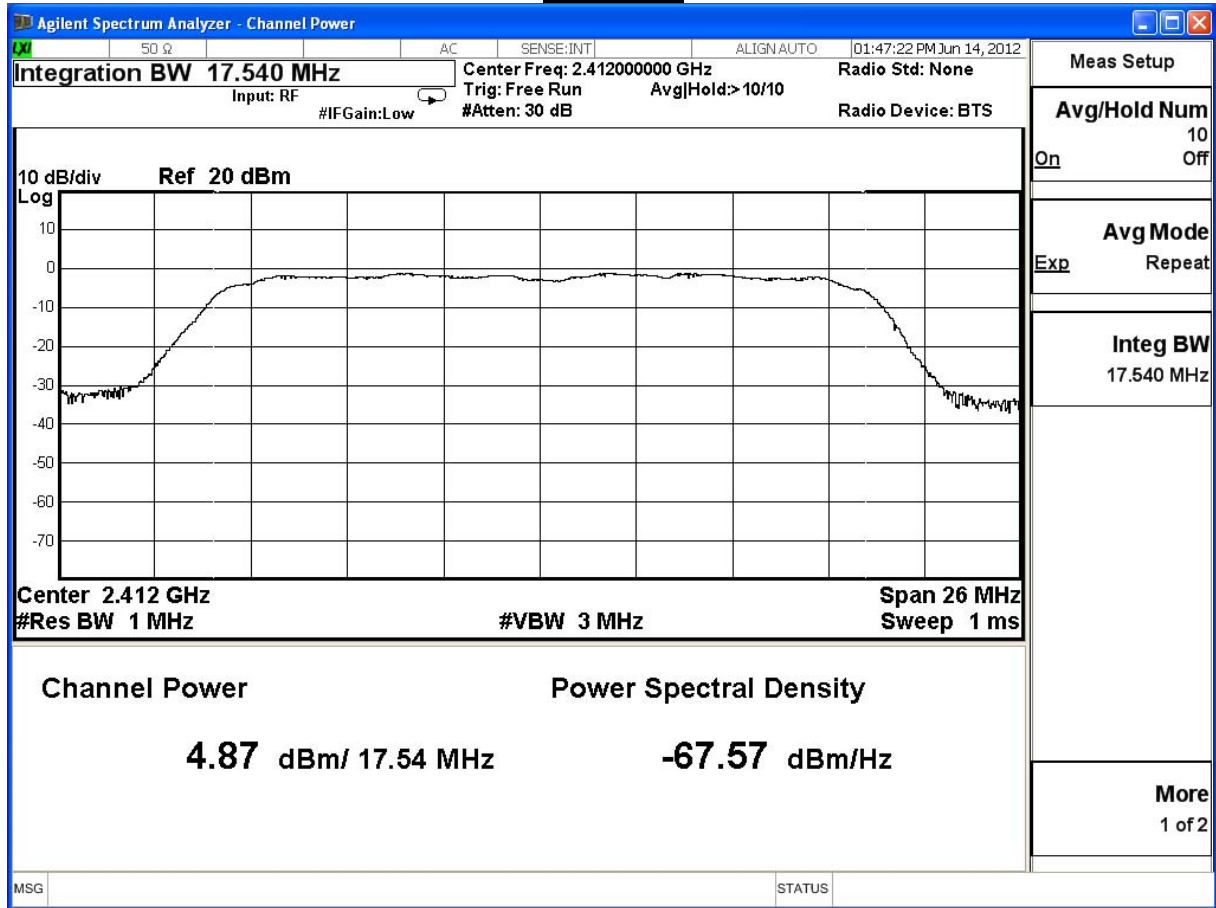
IEEE 802.11n (20MHz) ANT 0				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	4.87	1Watt= 30 dBm	Pass
6	2437	5.15	1Watt= 30 dBm	Pass
11	2462	5.12	1Watt= 30 dBm	Pass

The worst emission of data rate is 13 Mbps.

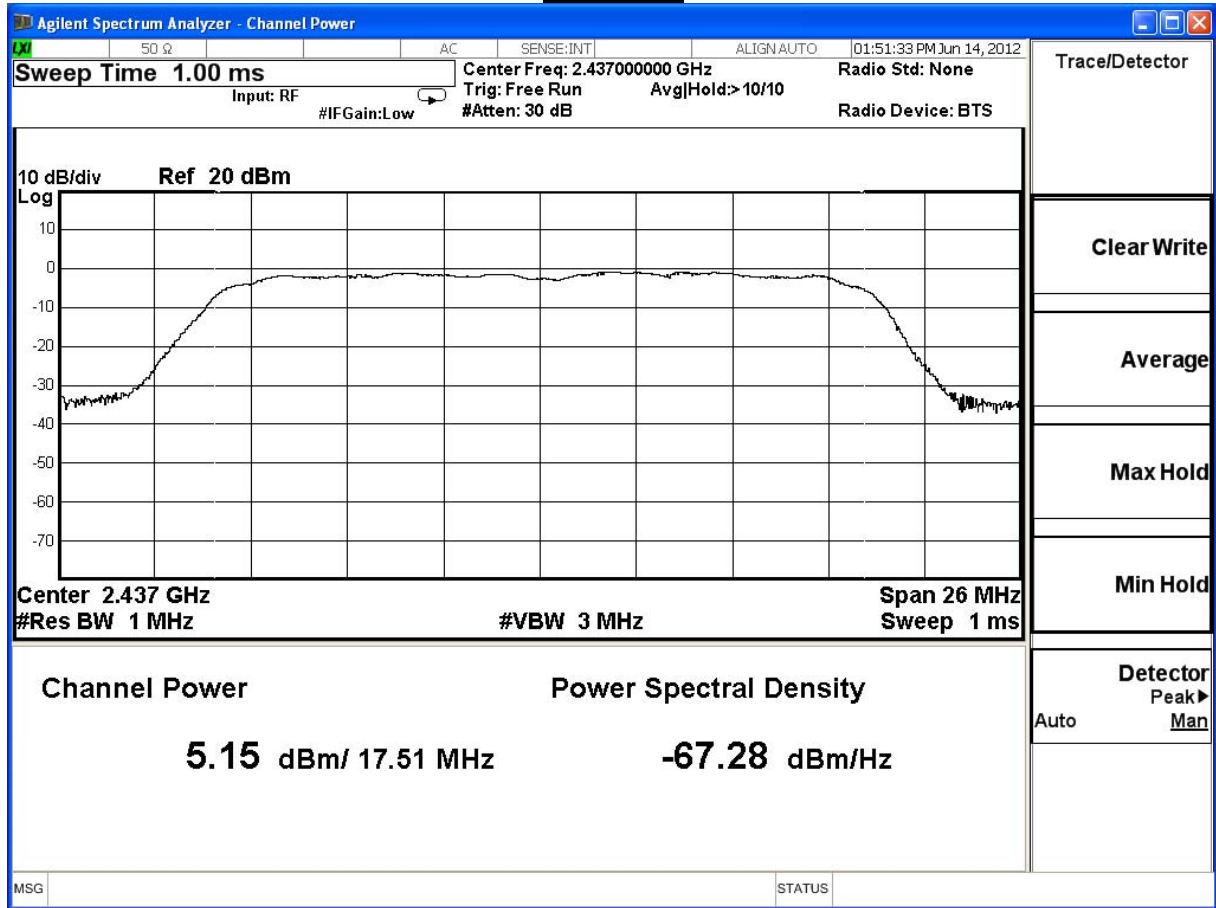
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	4.87	--	--	--	--	--	--	--	30dBm
6	2437	5.15	4.95	4.93	4.89	4.58	3.52	3.43	1.63	30dBm
11	2462	5.12	--	--	--	--	--	--	--	30dBm

Note: Measure Level =Reading value + cable loss

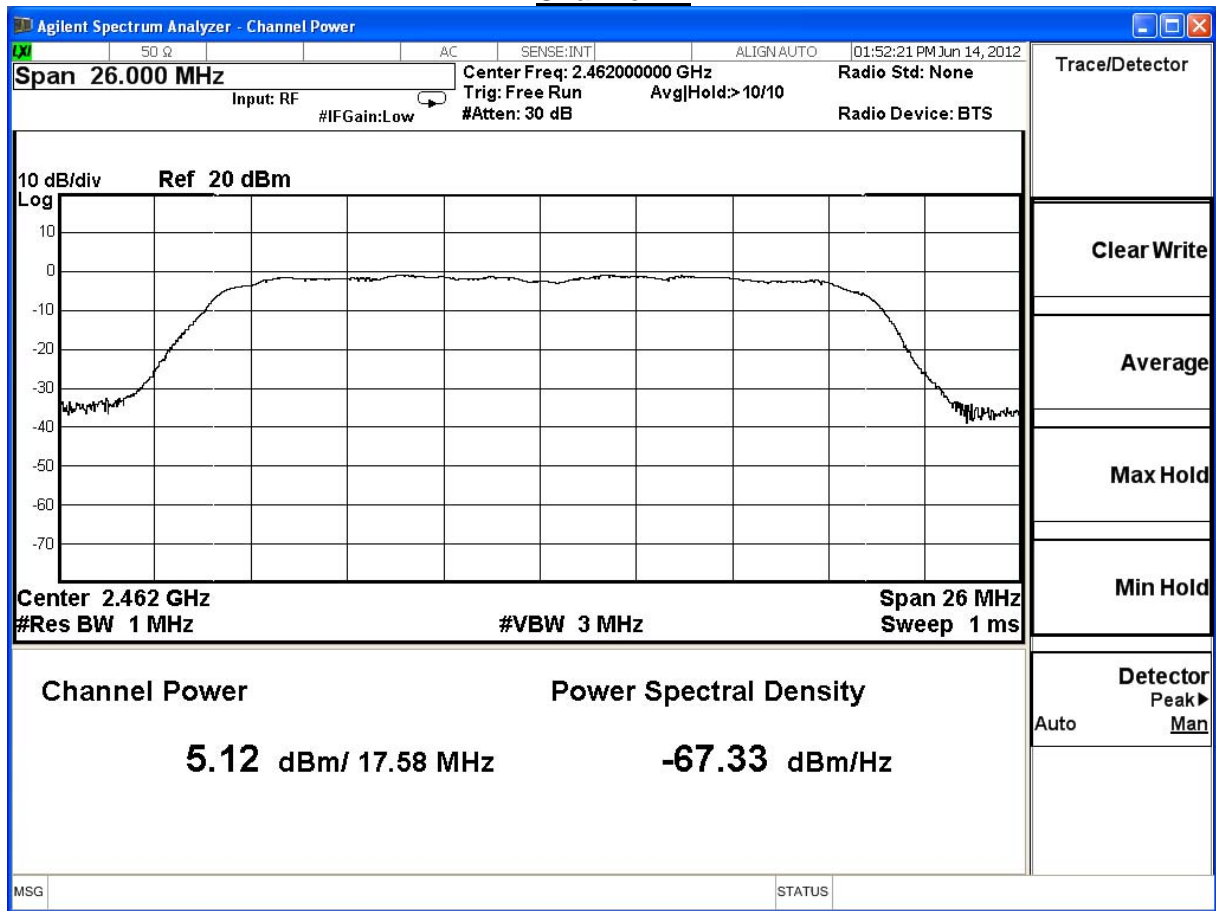
Channel 1



Channel 6



Channel 11



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

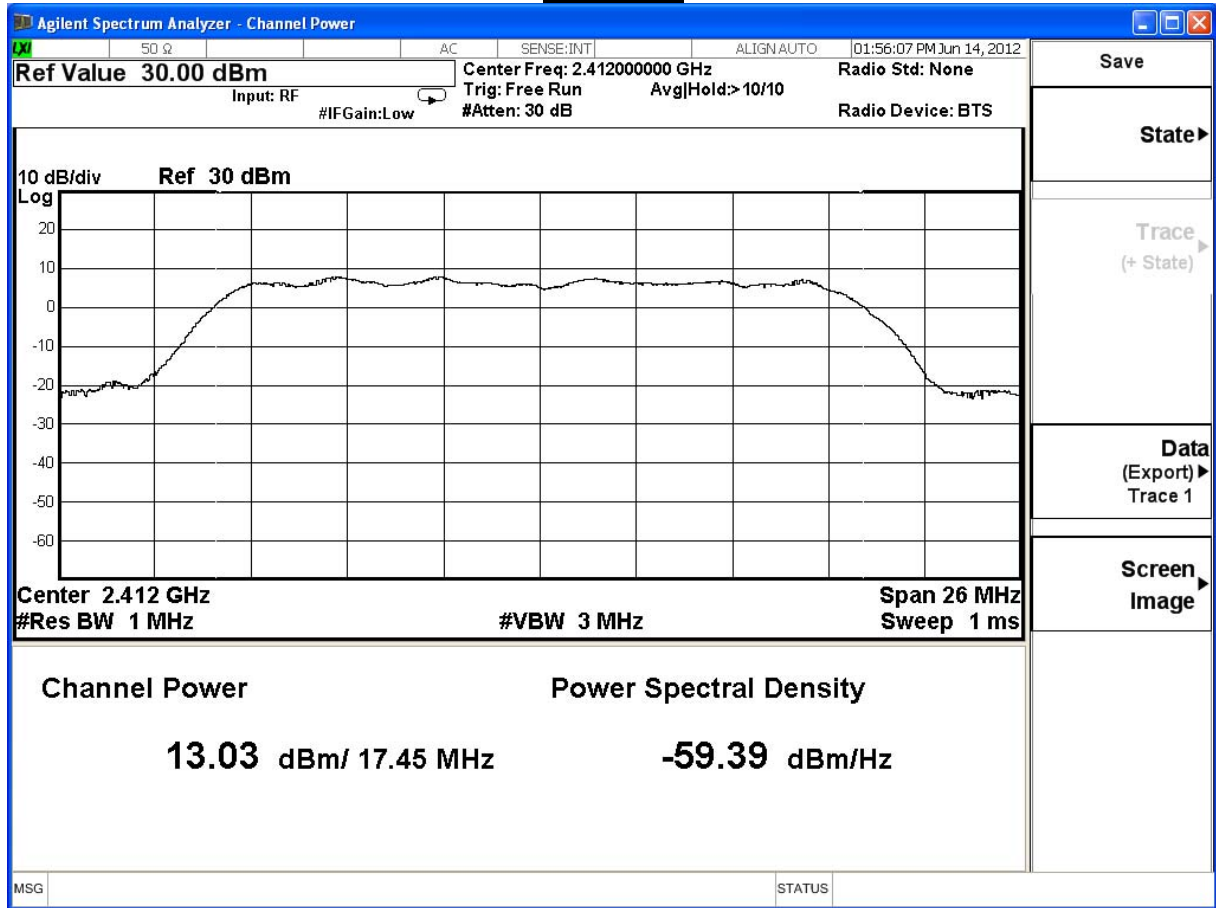
IEEE 802.11n (20MHz) ANT1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	13.03	1Watt= 30 dBm	Pass
6	2437	11.64	1Watt= 30 dBm	Pass
11	2462	11.13	1Watt= 30 dBm	Pass

The worst emission of data rate is 13 Mbps.

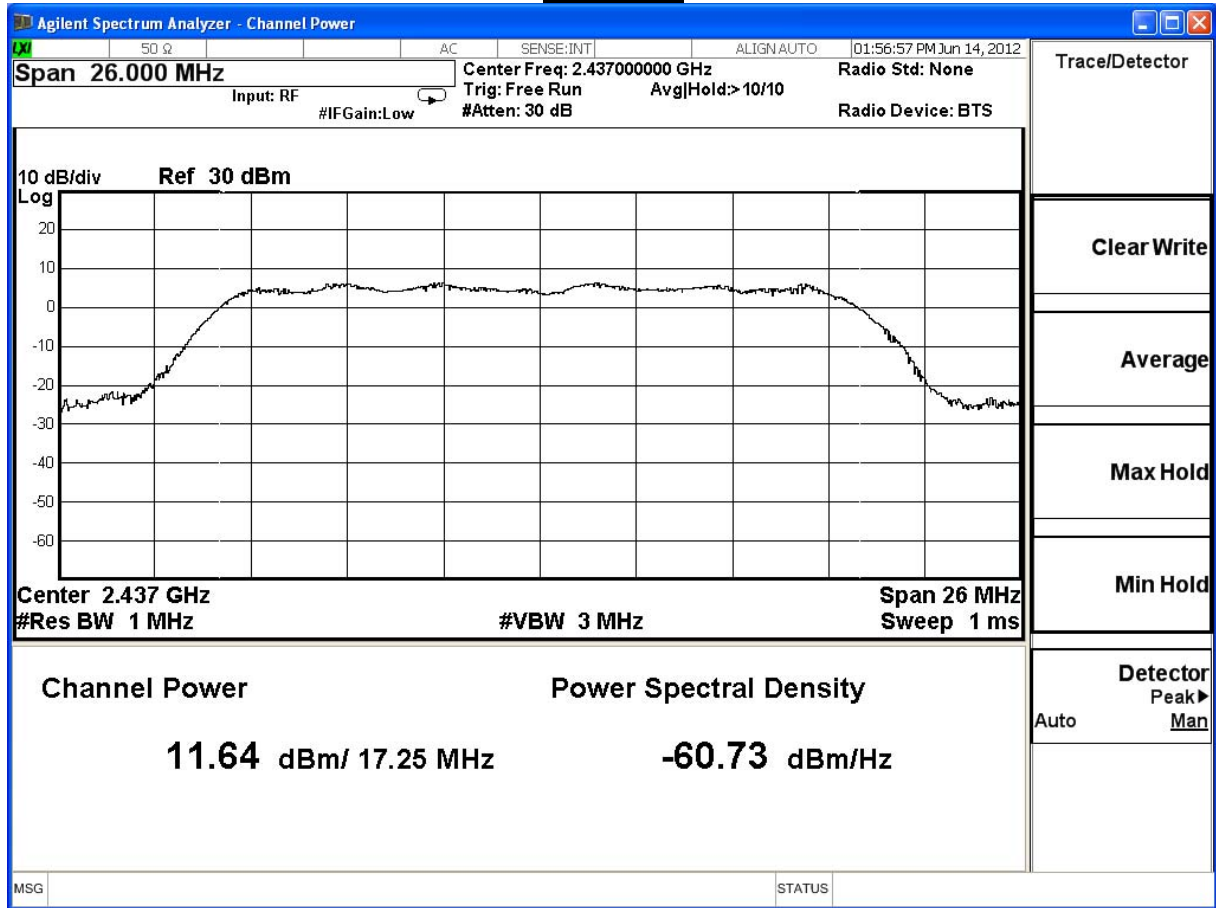
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	13.03	--	--	--	--	--	--	--	30dBm
6	2437	11.64	11.44	11.42	11.38	11.07	10.01	9.92	8.12	30dBm
11	2462	11.13	--	--	--	--	--	--	--	30dBm

Note: Measure Level =Reading value + cable loss

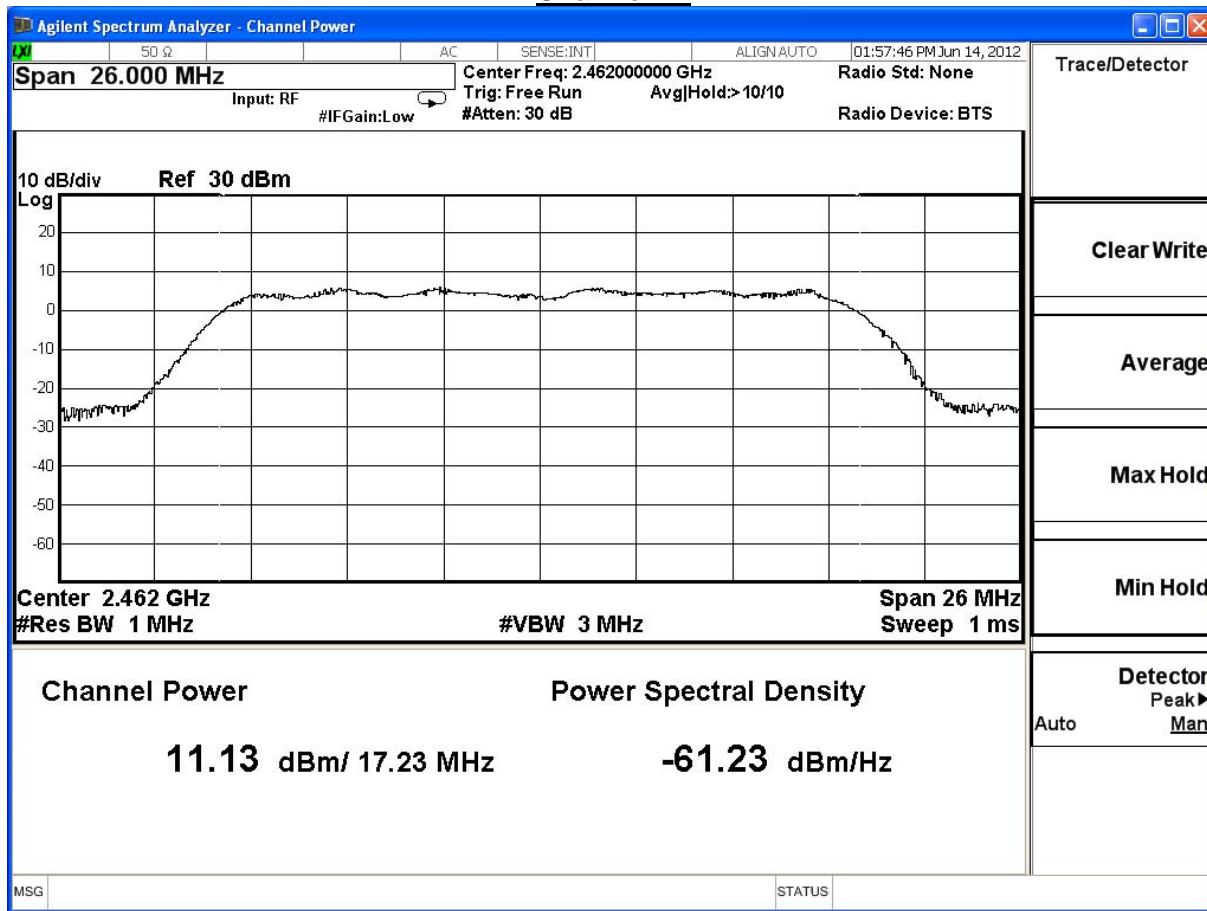
Channel 1



Channel 6



Channel 11



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

IEEE 802.11n (20MHz) ANT 0+1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	13.65	1Watt= 30 dBm	Pass
6	2437	12.52	1Watt= 30 dBm	Pass
11	2462	12.10	1Watt= 30 dBm	Pass

Note: Measure Level =Reading value + cable loss

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

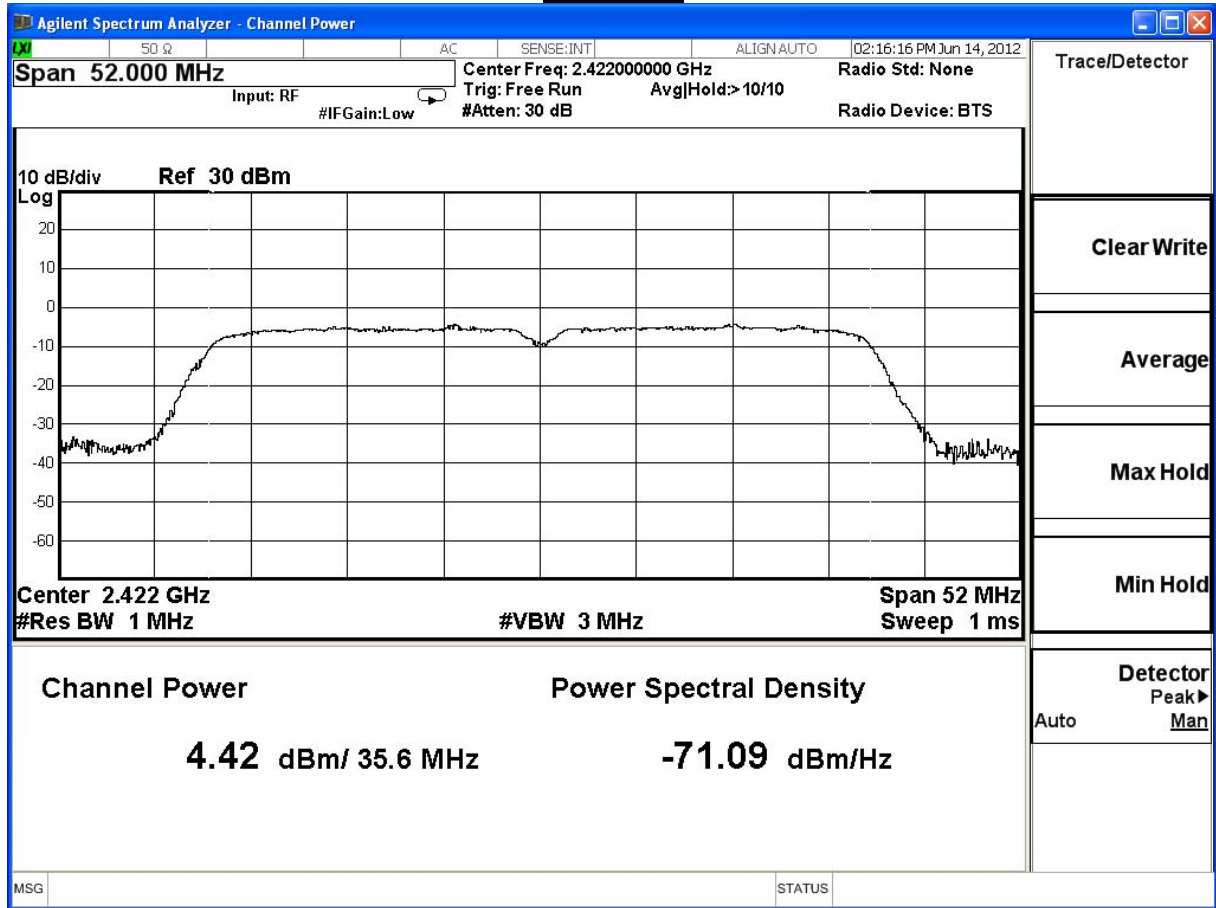
IEEE 802.11n (40MHz) ANT 0				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	4.42	1Watt= 30 dBm	Pass
6	2437	4.73	1Watt= 30 dBm	Pass
9	2452	4.84	1Watt= 30 dBm	Pass

The worst emission of data rate is 27 Mbps

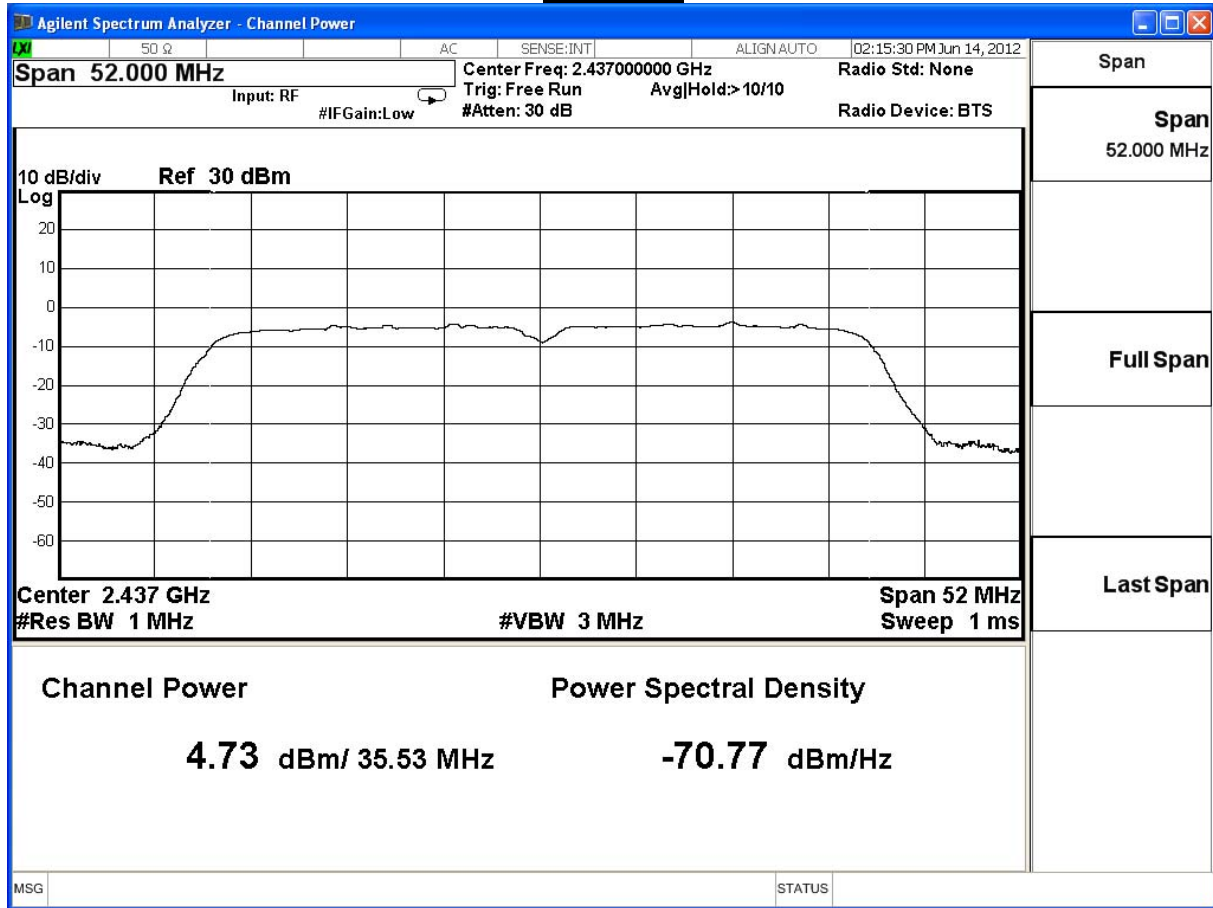
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	4.42	--	--	--	--	--	--	--	30dBm
6	2437	4.73	4.62	4.23	4.48	4	3.24	2.56	1.92	30dBm
9	2452	4.84	--	--	--	--	--	--	--	30dBm

Note: Measure Level =Reading value + cable loss

Channel 3

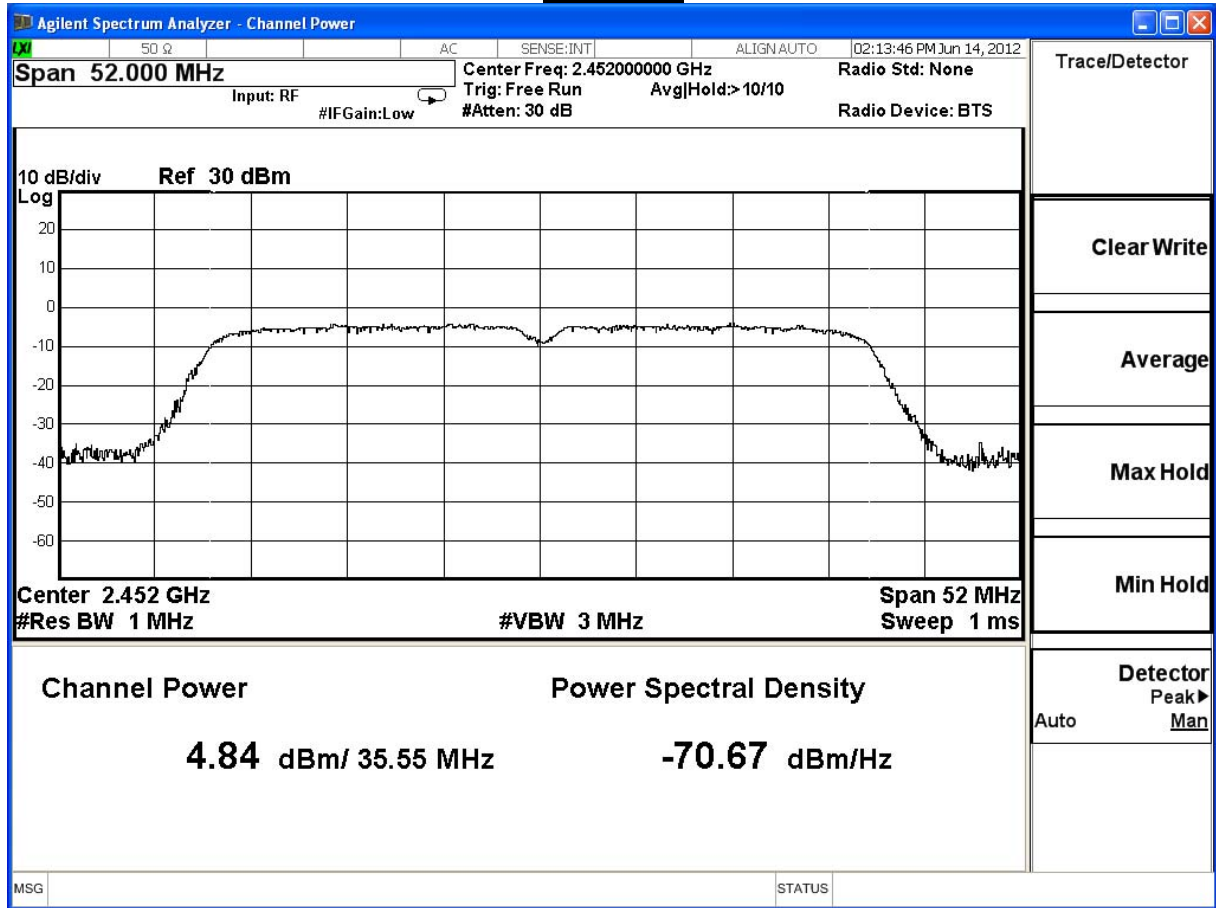


Channel 6



Span
Span 52.000 MHz
Full Span
Last Span

Channel 9



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

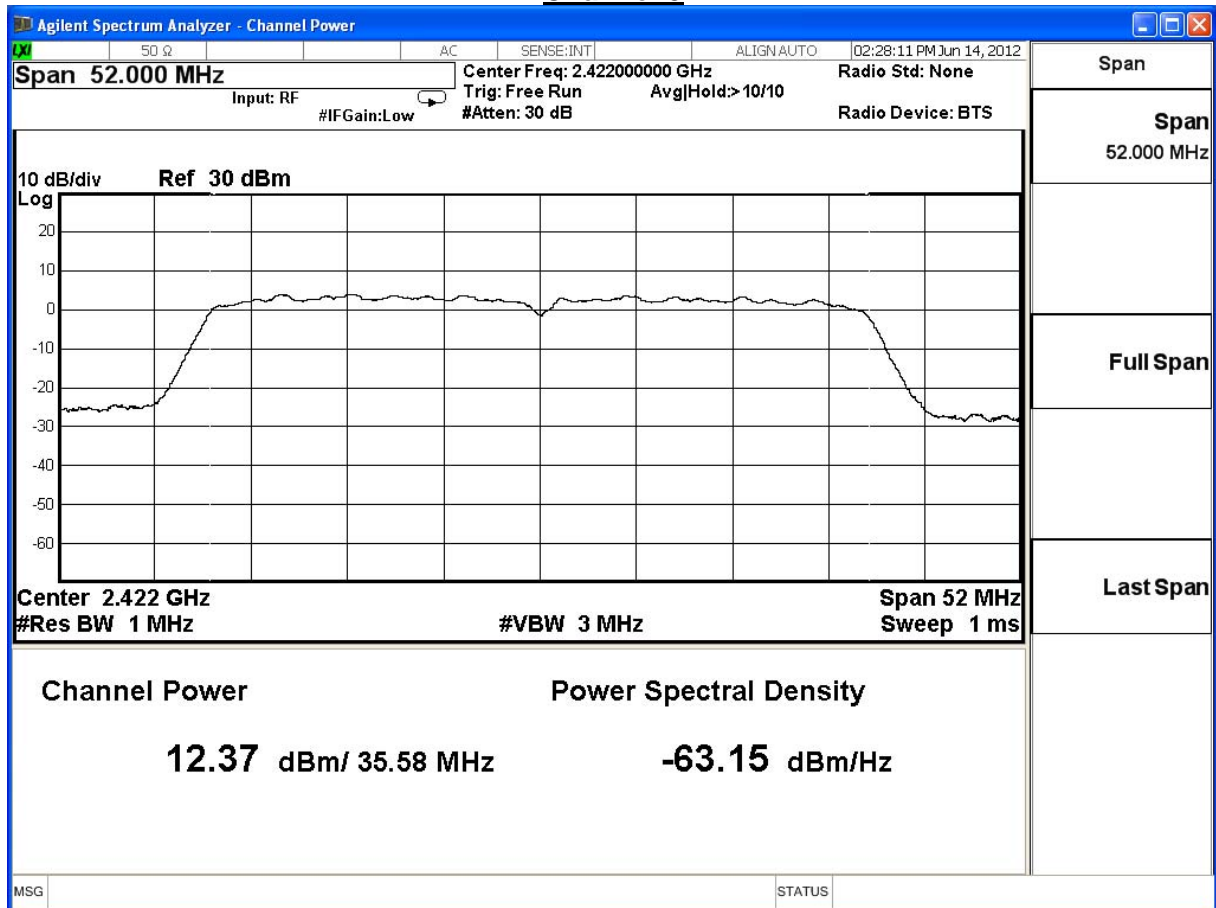
IEEE 802.11n (40MHz) ANT 1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	12.37	1Watt= 30 dBm	Pass
6	2437	11.05	1Watt= 30 dBm	Pass
9	2452	11.95	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

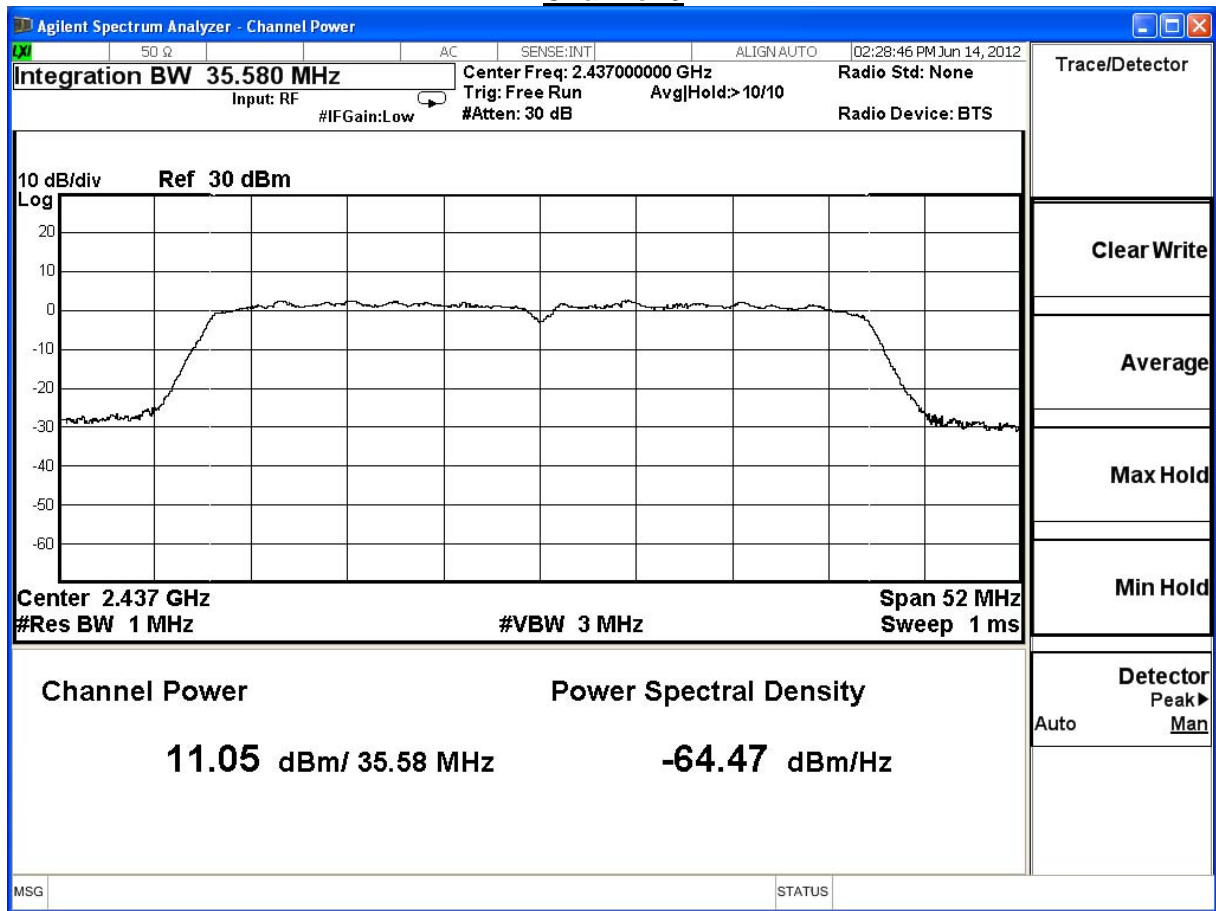
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	12.37	--	--	--	--	--	--	--	30dBm
6	2437	11.05	10.85	10.83	10.79	10.48	9.42	9.33	7.53	30dBm
9	2452	11.95	--	--	--	--	--	--	--	30dBm

Note: Measure Level =Reading value + cable loss

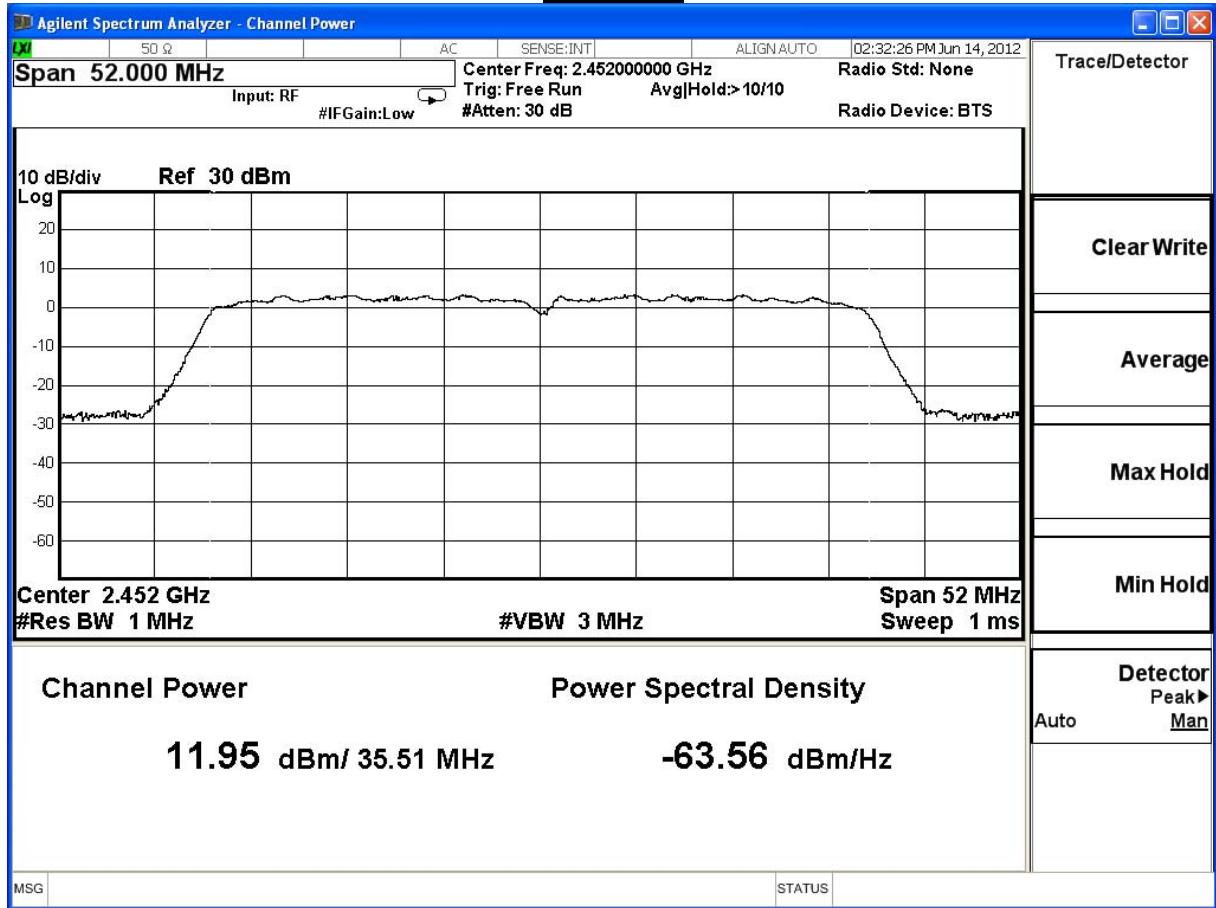
Channel 3



Channel 6



Channel 9



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

IEEE 802.11n (40MHz) ANT 0+1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	13.02	1Watt= 30 dBm	Pass
6	2437	11.96	1Watt= 30 dBm	Pass
9	2452	12.72	1Watt= 30 dBm	Pass

Note: Measure Level =Reading value + cable loss

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

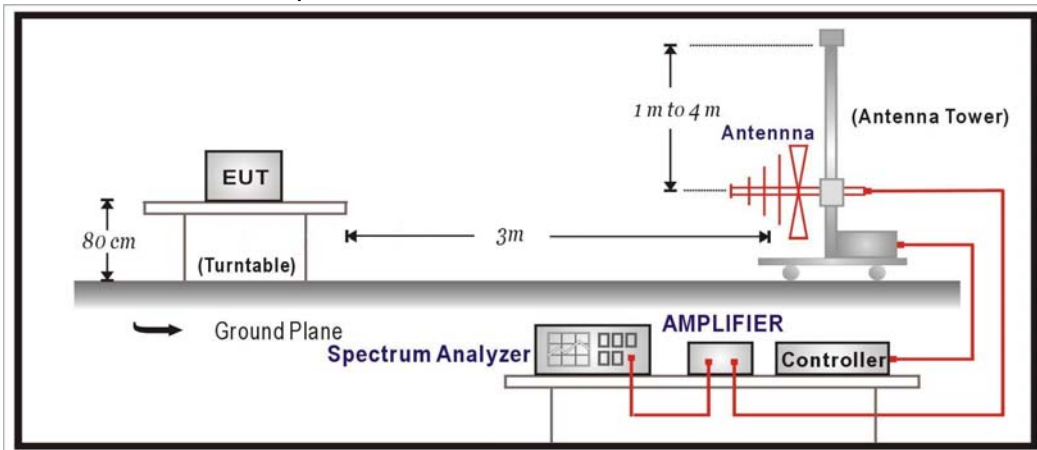
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2012/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2012/12/05
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2013/03/01
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

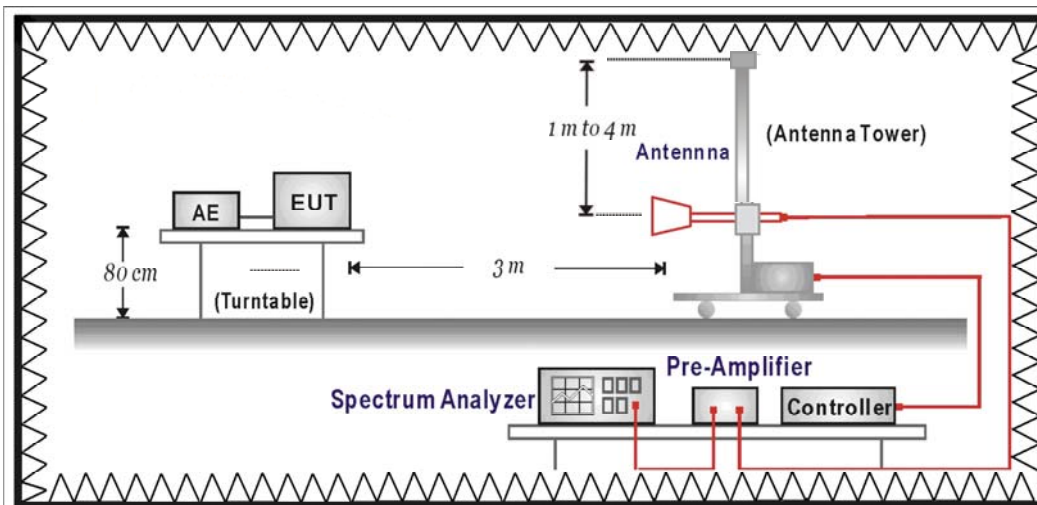
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. 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.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	dBuV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. 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 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.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

4.6. Uncertainty

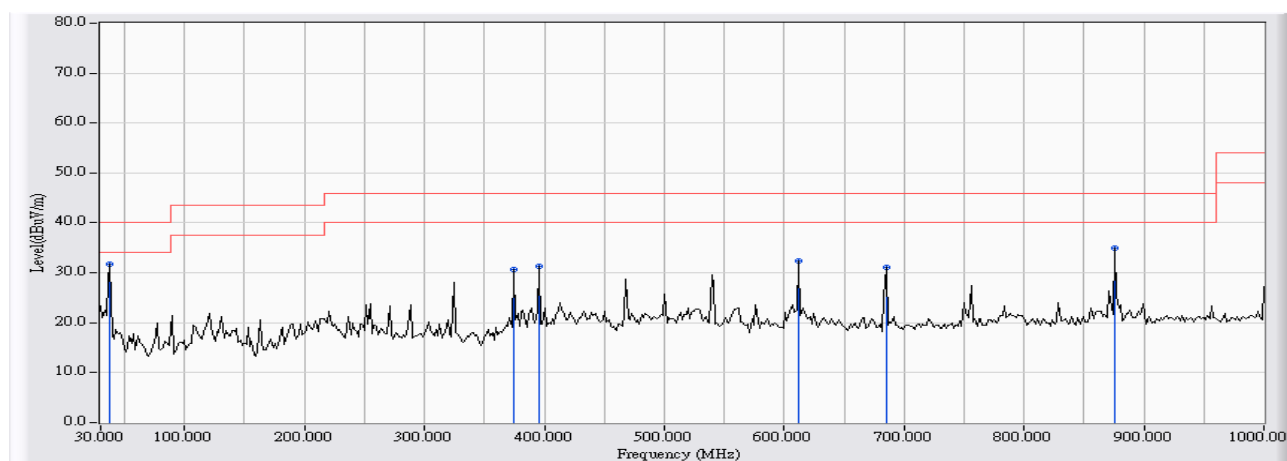
The measurement uncertainty

30MHz~1GHz as ±3.43dB

1GHz~26.5Ghz as ±3.65dB

4.7. Test Result

Site : CB1	Time : 2012/06/08 - 17:49
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)_802.11b_CH6

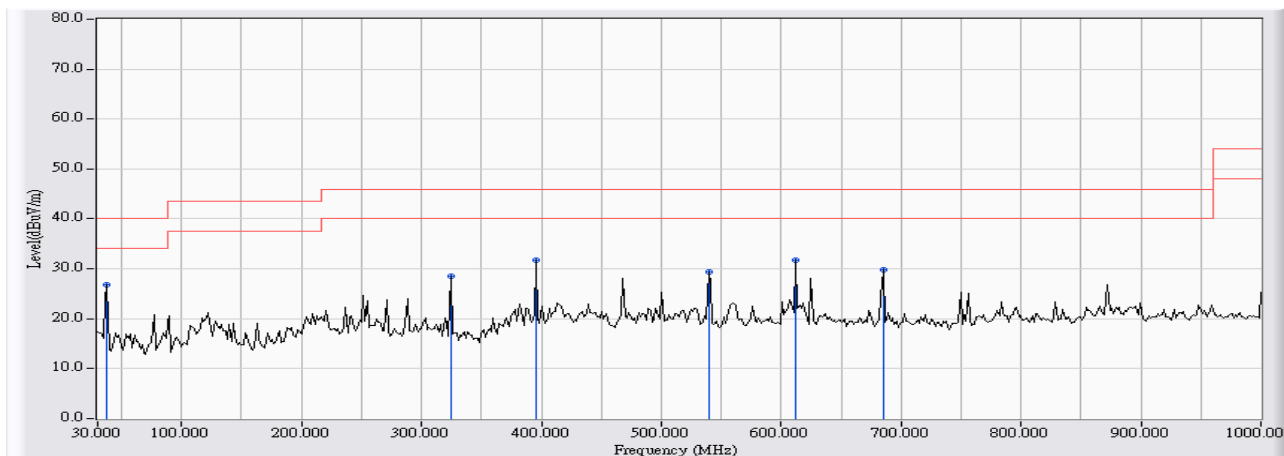


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.470	31.699	-8.301	40.000	QUASPEAK
2		374.350	-8.111	38.871	30.760	-15.240	46.000	QUASPEAK
3		395.367	-7.504	38.892	31.388	-14.612	46.000	QUASPEAK
4		612.000	-4.271	36.739	32.468	-13.532	46.000	QUASPEAK
5		684.750	-3.982	35.063	31.082	-14.918	46.000	QUASPEAK
6		875.517	-2.164	37.079	34.915	-11.085	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 17:54
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)_802.11b_CH6

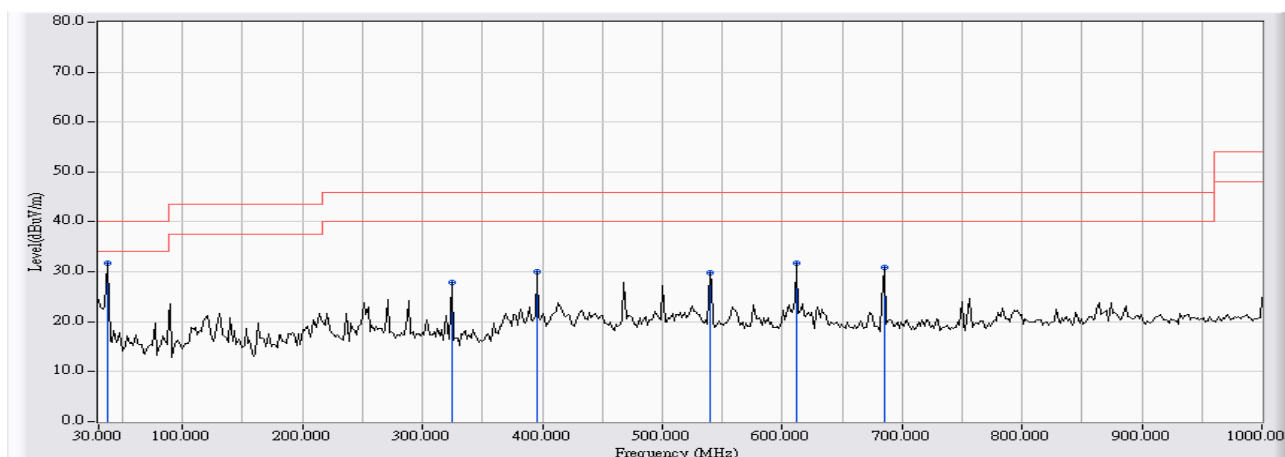


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	38.602	26.831	-13.169	40.000	QUASPEAK
2		324.233	-9.567	38.040	28.474	-17.526	46.000	QUASPEAK
3		395.367	-7.504	39.182	31.678	-14.322	46.000	QUASPEAK
4		539.250	-4.868	34.304	29.436	-16.564	46.000	QUASPEAK
5		612.000	-4.271	36.043	31.772	-14.228	46.000	QUASPEAK
6		684.750	-3.982	33.802	29.821	-16.179	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 18:01
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)_802.11g_CH6

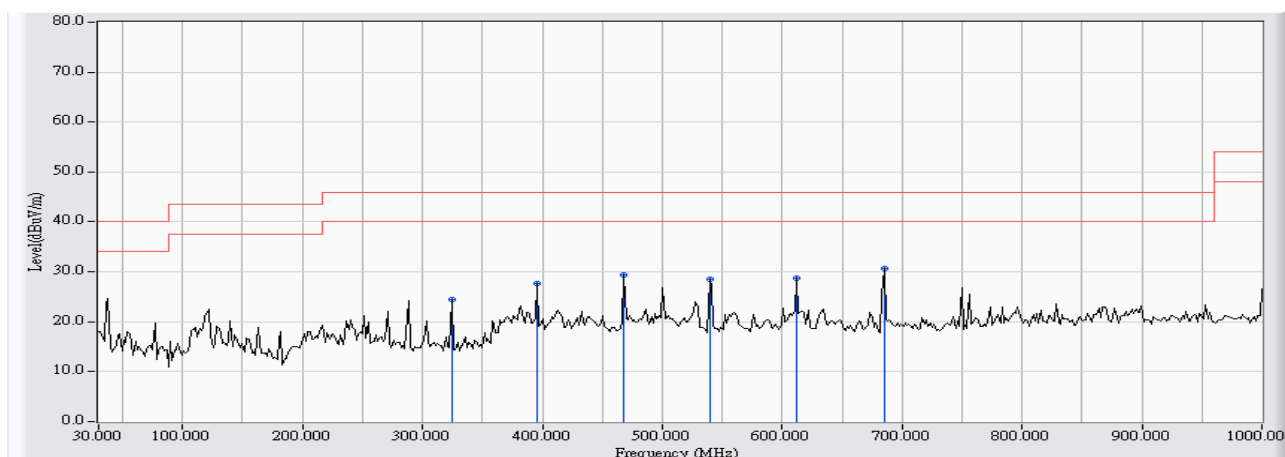


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.518	31.747	-8.253	40.000	QUASPEAK
2		324.233	-9.567	37.386	27.820	-18.180	46.000	QUASPEAK
3		395.367	-7.504	37.637	30.133	-15.867	46.000	QUASPEAK
4		539.250	-4.868	34.732	29.864	-16.136	46.000	QUASPEAK
5		612.000	-4.271	35.966	31.695	-14.305	46.000	QUASPEAK
6		684.750	-3.982	34.954	30.973	-15.027	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 15:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 1: Transmit (Internal Antenna, Adapter: SAG024F 3)_802.11g_CH6

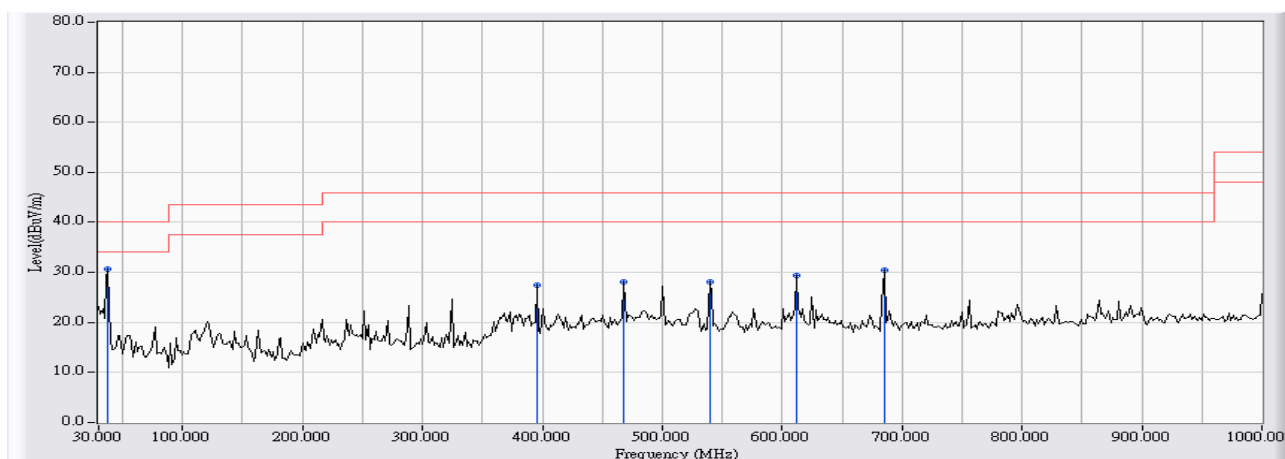


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	324.233	-9.567	33.959	24.393	-21.607	46.000	QUASPEAK
2	395.367	-7.504	35.137	27.633	-18.367	46.000	QUASPEAK
3	468.117	-5.987	35.380	29.393	-16.607	46.000	QUASPEAK
4	539.250	-4.868	33.478	28.610	-17.390	46.000	QUASPEAK
5	612.000	-4.271	32.938	28.667	-17.333	46.000	QUASPEAK
6	* 684.750	-3.982	34.654	30.673	-15.327	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 15:32
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-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_CH6

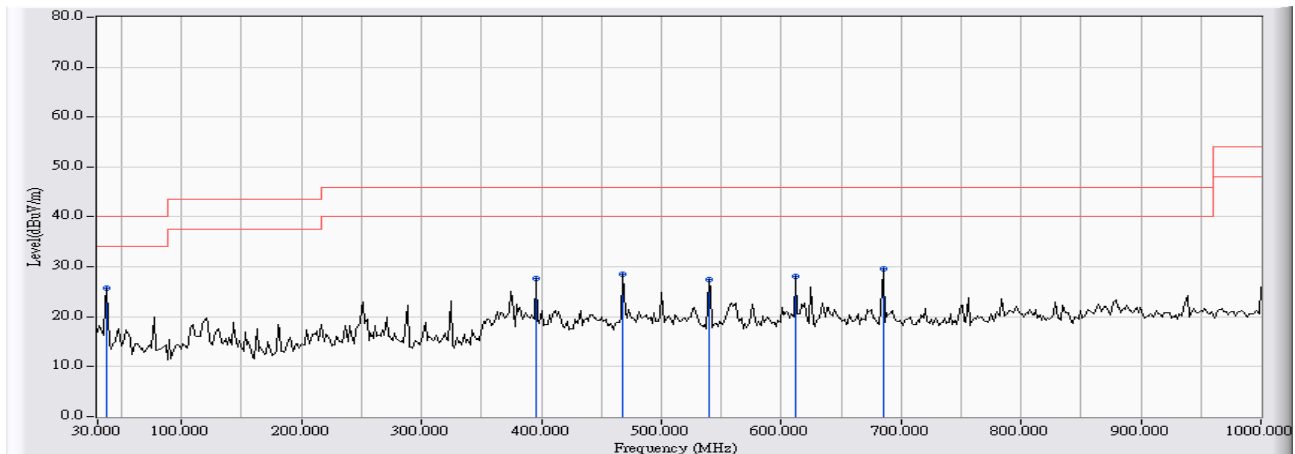


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	42.546	30.775	-9.225	40.000	QUASPEAK
2		395.367	-7.504	35.016	27.512	-18.488	46.000	QUASPEAK
3		468.117	-5.987	34.058	28.071	-17.929	46.000	QUASPEAK
4		539.250	-4.868	32.949	28.080	-17.920	46.000	QUASPEAK
5		612.000	-4.271	33.639	29.368	-16.632	46.000	QUASPEAK
6		684.750	-3.982	34.385	30.403	-15.597	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 15:37
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-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_CH6

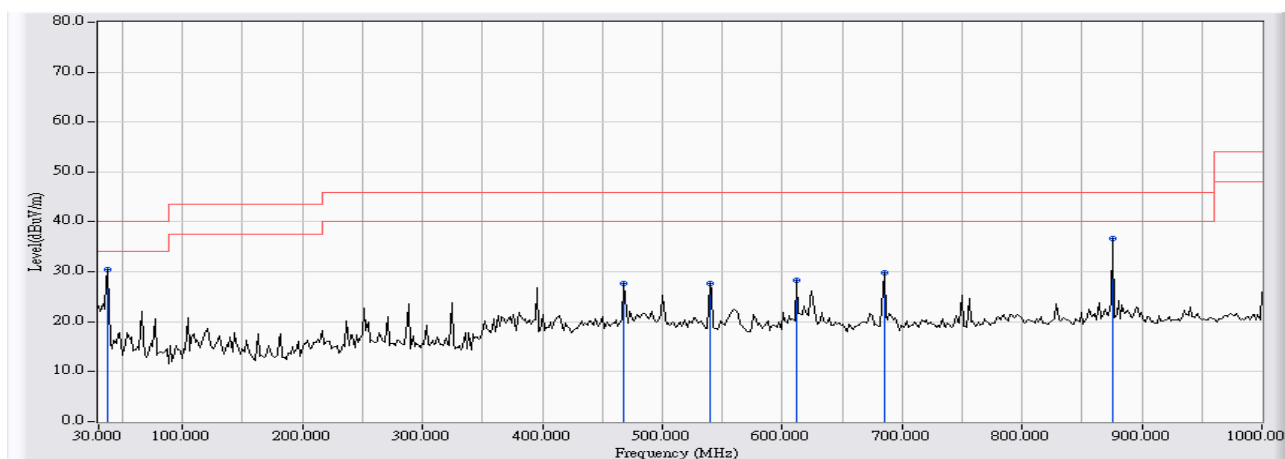


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	37.589	25.818	-14.182	40.000	QUASPEAK
2		395.367	-7.504	35.084	27.580	-18.420	46.000	QUASPEAK
3		468.117	-5.987	34.497	28.510	-17.490	46.000	QUASPEAK
4		539.250	-4.868	32.315	27.446	-18.554	46.000	QUASPEAK
5		612.000	-4.271	32.346	28.075	-17.925	46.000	QUASPEAK
6		684.750	-3.982	33.617	29.635	-16.365	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 15:44
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-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_CH6

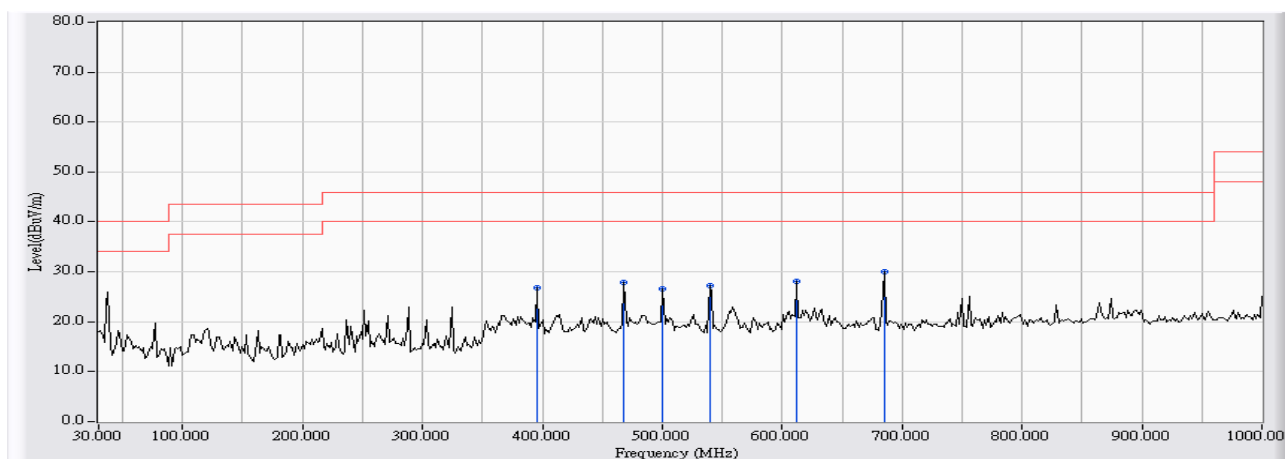


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-11.772	42.201	30.430	-9.570	40.000	QUASPEAK
2	468.117	-5.987	33.646	27.659	-18.341	46.000	QUASPEAK
3	539.250	-4.868	32.566	27.697	-18.303	46.000	QUASPEAK
4	612.000	-4.271	32.589	28.318	-17.682	46.000	QUASPEAK
5	684.750	-3.982	33.693	29.711	-16.289	46.000	QUASPEAK
6	* 875.517	-2.164	38.834	36.670	-9.330	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 15:48
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-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_CH6

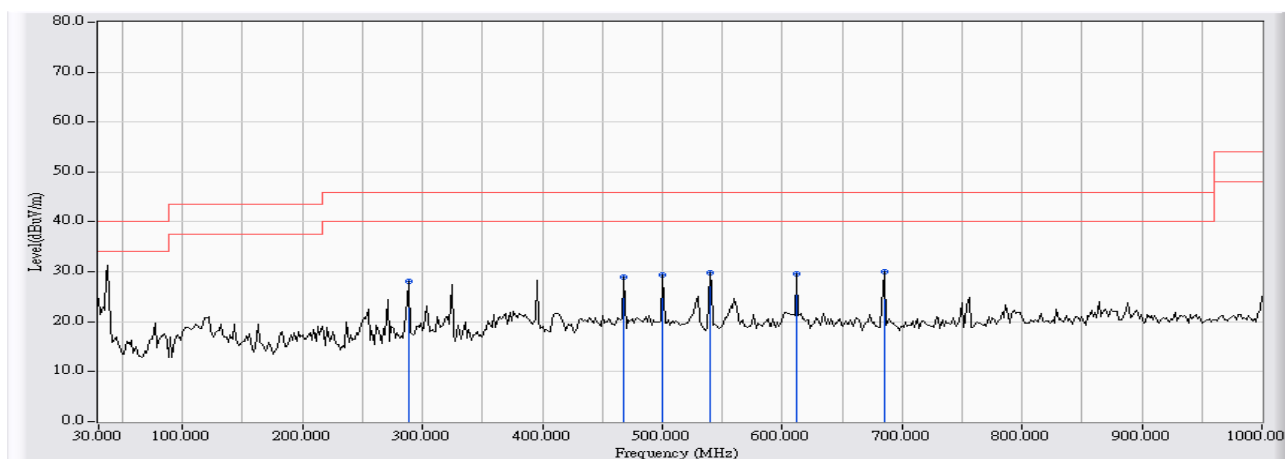


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	395.367	-7.504	34.349	26.845	-19.155	46.000	QUASPEAK
2	468.117	-5.987	33.822	27.835	-18.165	46.000	QUASPEAK
3	500.450	-5.372	31.983	26.611	-19.389	46.000	QUASPEAK
4	539.250	-4.868	32.202	27.333	-18.667	46.000	QUASPEAK
5	612.000	-4.271	32.432	28.161	-17.839	46.000	QUASPEAK
6	* 684.750	-3.982	34.094	30.112	-15.888	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 15:57
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)_802.11b_CH6

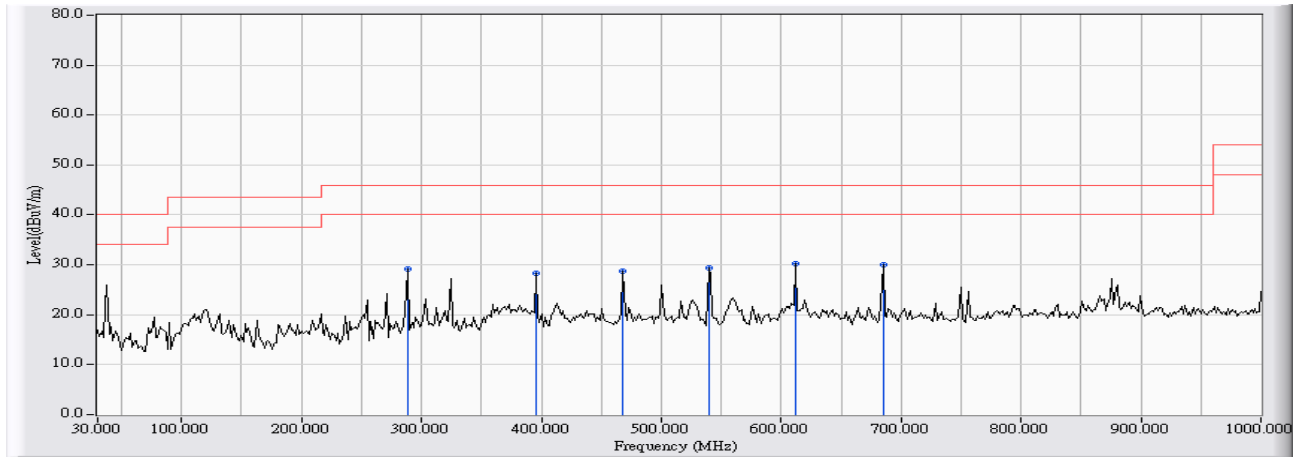


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	288.667	-10.453	38.647	28.194	-17.806	46.000	QUASPEAK
2	468.117	-5.987	34.896	28.909	-17.091	46.000	QUASPEAK
3	500.450	-5.372	34.837	29.465	-16.535	46.000	QUASPEAK
4	539.250	-4.868	34.736	29.867	-16.133	46.000	QUASPEAK
5	612.000	-4.271	33.823	29.552	-16.448	46.000	QUASPEAK
6	* 684.750	-3.982	33.983	30.001	-15.999	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:02
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)_802.11b_CH6

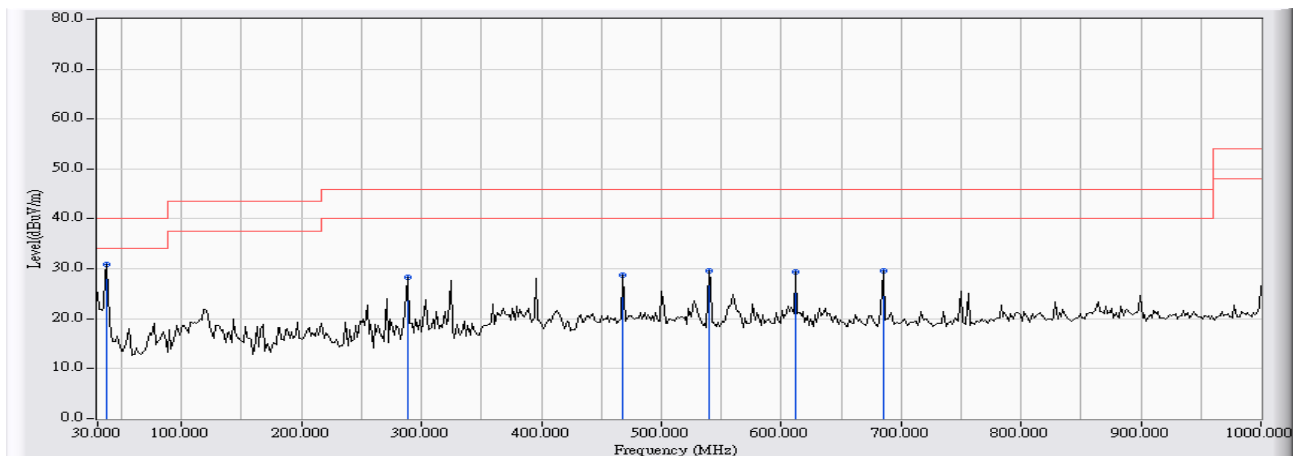


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	288.667	-10.453	39.574	29.121	-16.879	46.000	QUASPEAK
2	395.367	-7.504	35.721	28.217	-17.783	46.000	QUASPEAK
3	468.117	-5.987	34.758	28.771	-17.229	46.000	QUASPEAK
4	539.250	-4.868	34.341	29.472	-16.528	46.000	QUASPEAK
5	* 612.000	-4.271	34.446	30.175	-15.825	46.000	QUASPEAK
6	684.750	-3.982	33.986	30.004	-15.996	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)_802.11G_CH6

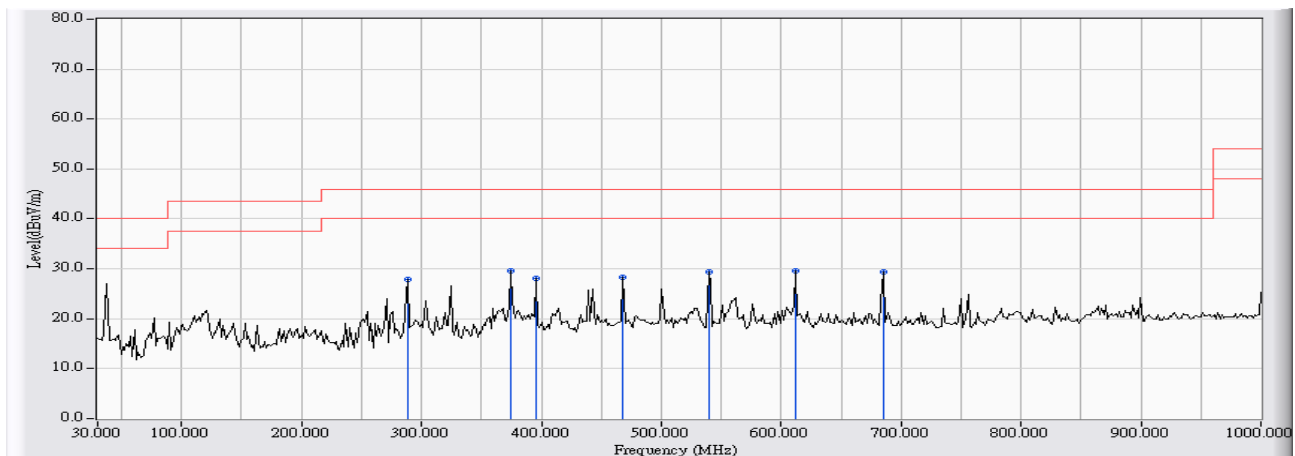


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	42.641	30.870	-9.130	40.000	QUASPEAK
2		288.667	-10.453	38.795	28.342	-17.658	46.000	QUASPEAK
3		468.117	-5.987	34.813	28.826	-17.174	46.000	QUASPEAK
4		539.250	-4.868	34.454	29.585	-16.415	46.000	QUASPEAK
5		612.000	-4.271	33.621	29.350	-16.650	46.000	QUASPEAK
6		684.750	-3.982	33.480	29.498	-16.502	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:13
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)_802.11G_CH6

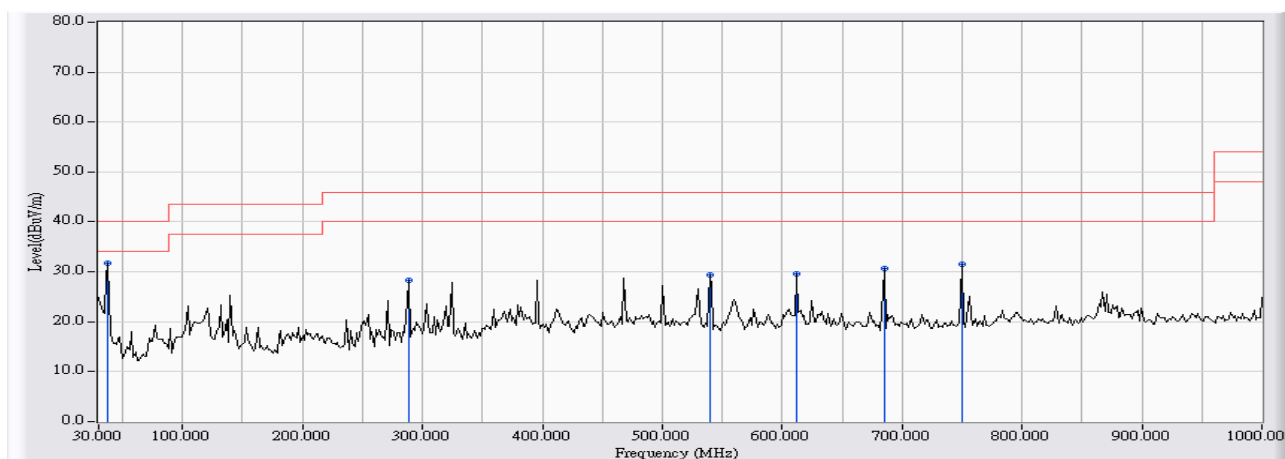


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	288.667	-10.453	38.317	27.864	-18.136	46.000	QUASPEAK
2	374.350	-8.111	37.644	29.533	-16.467	46.000	QUASPEAK
3	395.367	-7.504	35.552	28.048	-17.952	46.000	QUASPEAK
4	468.117	-5.987	34.271	28.284	-17.716	46.000	QUASPEAK
5	539.250	-4.868	34.190	29.321	-16.679	46.000	QUASPEAK
6	* 612.000	-4.271	33.906	29.635	-16.365	46.000	QUASPEAK
7	684.750	-3.982	33.454	29.472	-16.528	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:19
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)_802.11n 20MHz_CH6

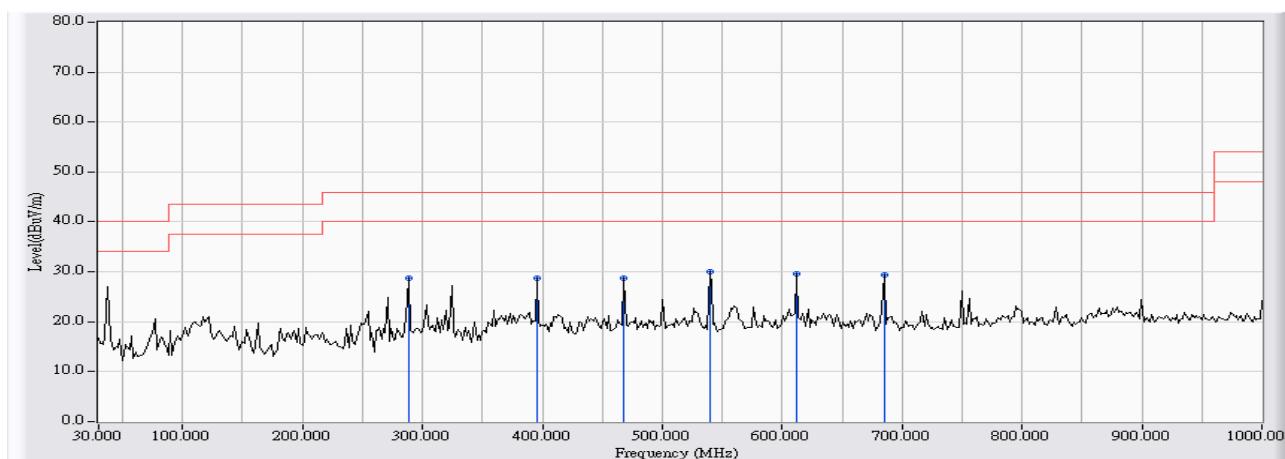


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.510	31.739	-8.261	40.000	QUASPEAK
2		288.667	-10.453	38.816	28.363	-17.637	46.000	QUASPEAK
3		539.250	-4.868	34.291	29.422	-16.578	46.000	QUASPEAK
4		612.000	-4.271	33.849	29.578	-16.422	46.000	QUASPEAK
5		684.750	-3.982	34.649	30.667	-15.333	46.000	QUASPEAK
6		749.417	-3.297	34.801	31.504	-14.496	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:24
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)_802.11n 20MHz_CH6

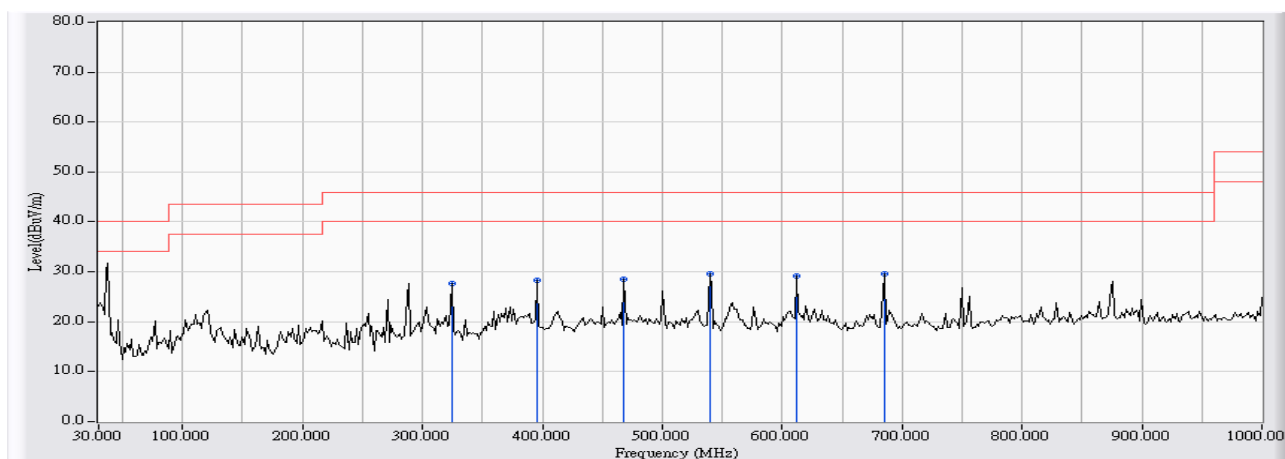


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	288.667	-10.453	39.117	28.664	-17.336	46.000	QUASPEAK
2	395.367	-7.504	36.245	28.741	-17.259	46.000	QUASPEAK
3	468.117	-5.987	34.791	28.804	-17.196	46.000	QUASPEAK
4	* 539.250	-4.868	34.922	30.053	-15.947	46.000	QUASPEAK
5	612.000	-4.271	33.837	29.566	-16.434	46.000	QUASPEAK
6	684.750	-3.982	33.261	29.279	-16.721	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:35
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)_802.11n 40MHz_CH6

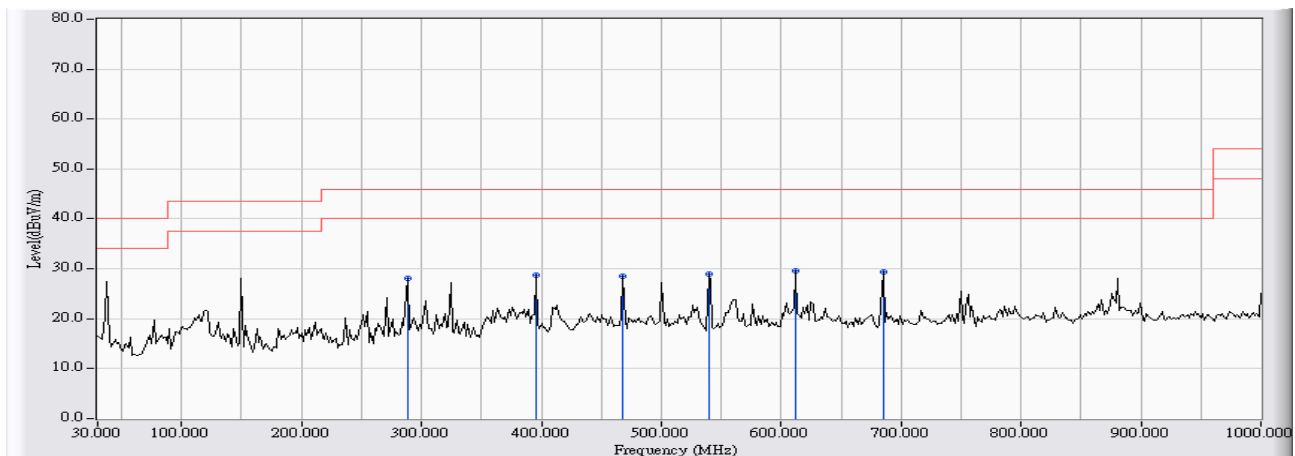


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	324.233	-9.567	37.216	27.650	-18.350	46.000	QUASPEAK
2	395.367	-7.504	35.744	28.240	-17.760	46.000	QUASPEAK
3	468.117	-5.987	34.555	28.568	-17.432	46.000	QUASPEAK
4	539.250	-4.868	34.390	29.521	-16.479	46.000	QUASPEAK
5	612.000	-4.271	33.529	29.258	-16.742	46.000	QUASPEAK
6	* 684.750	-3.982	33.579	29.597	-16.403	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:42
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 2: Transmit (Internal Antenna, Adapter: CAP018121)x_802.11n 40MHz_CH6

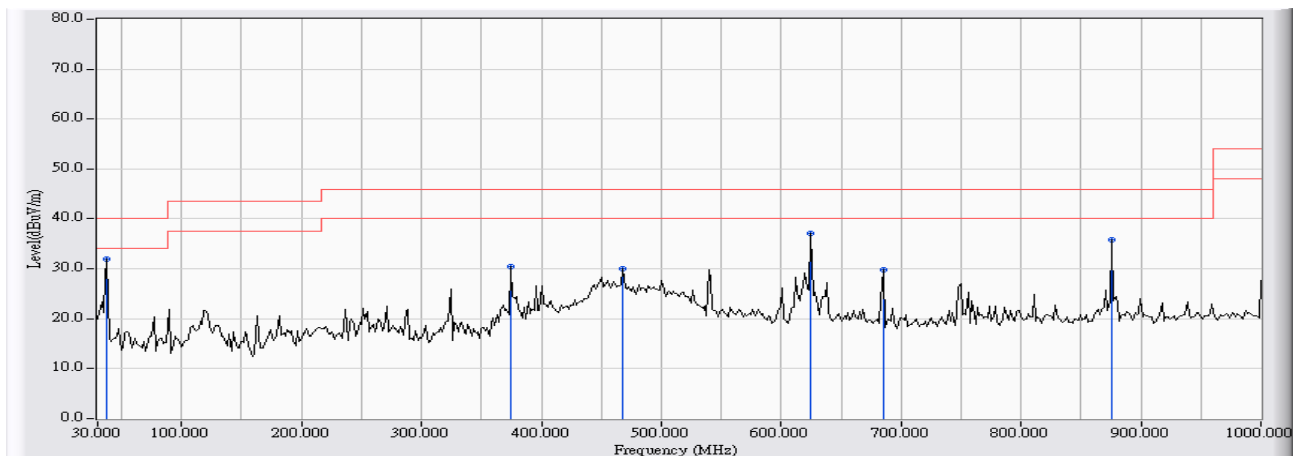


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	288.667	-10.453	38.525	28.072	-17.928	46.000	QUASPEAK
2	395.367	-7.504	36.149	28.645	-17.355	46.000	QUASPEAK
3	468.117	-5.987	34.548	28.561	-17.439	46.000	QUASPEAK
4	539.250	-4.868	33.763	28.894	-17.106	46.000	QUASPEAK
5	* 612.000	-4.271	33.853	29.582	-16.418	46.000	QUASPEAK
6	684.750	-3.982	33.411	29.429	-16.571	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 16:44
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)_802.11b_CH6

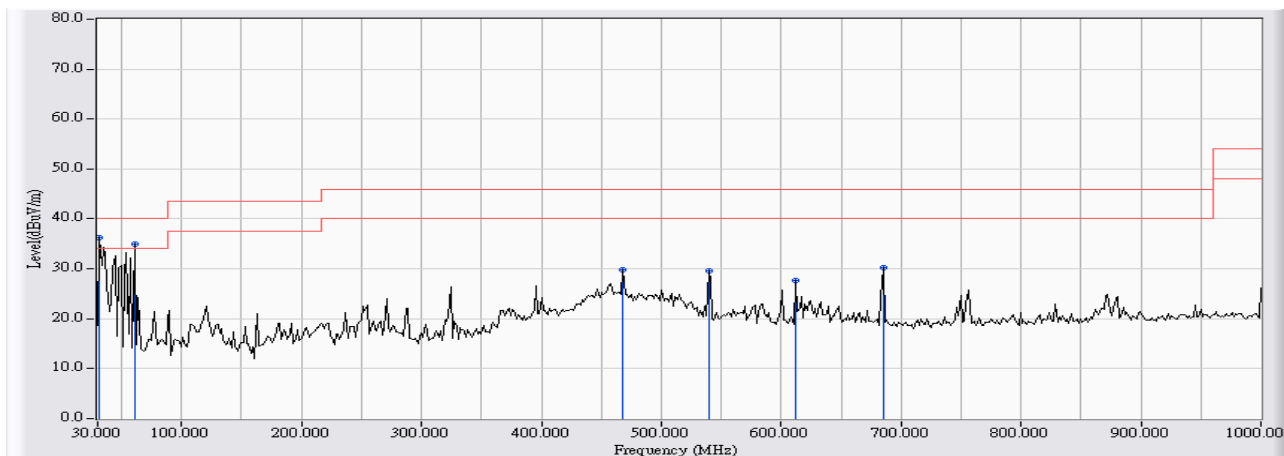


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.655	31.884	-8.116	40.000	QUASPEAK
2		374.350	-8.111	38.546	30.435	-15.565	46.000	QUASPEAK
3		468.117	-5.987	36.033	30.046	-15.954	46.000	QUASPEAK
4		624.933	-4.207	41.360	37.153	-8.847	46.000	QUASPEAK
5		684.750	-3.982	33.831	29.850	-16.150	46.000	QUASPEAK
6		875.517	-2.164	37.901	35.737	-10.263	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 16:48
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)_802.11b_CH6

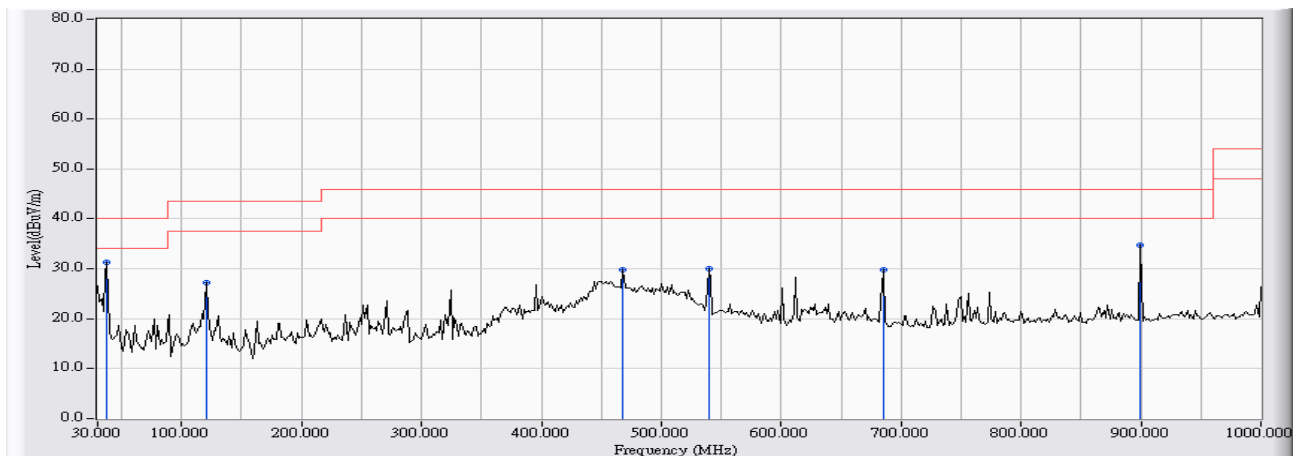


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	31.617	-10.213	46.400	36.187	-3.813	40.000	QUASPEAK
2		60.717	-17.790	52.728	34.938	-5.062	40.000	QUASPEAK
3		468.117	-5.987	35.698	29.711	-16.289	46.000	QUASPEAK
4		539.250	-4.868	34.554	29.686	-16.314	46.000	QUASPEAK
5		612.000	-4.271	32.031	27.760	-18.240	46.000	QUASPEAK
6		684.750	-3.982	34.196	30.215	-15.785	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 16:55
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)_802.11g_CH6

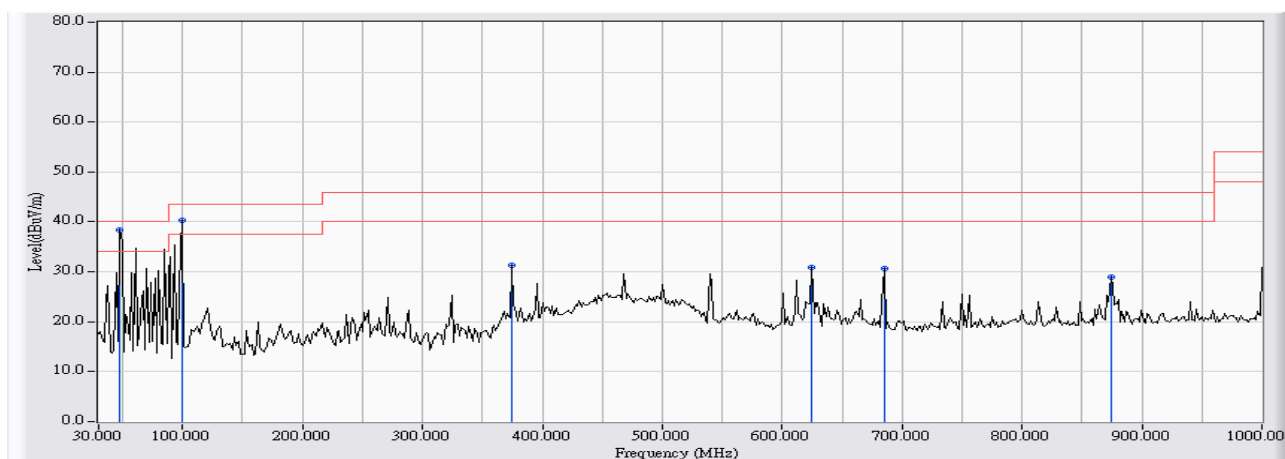


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.160	31.389	-8.611	40.000	QUASPEAK
2		120.533	-11.820	39.121	27.301	-16.199	43.500	QUASPEAK
3		468.117	-5.987	35.820	29.833	-16.167	46.000	QUASPEAK
4		539.250	-4.868	34.980	30.112	-15.888	46.000	QUASPEAK
5		684.750	-3.982	33.689	29.708	-16.292	46.000	QUASPEAK
6		899.767	-2.011	36.662	34.651	-11.349	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 17:17
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)_802.11g_CH6

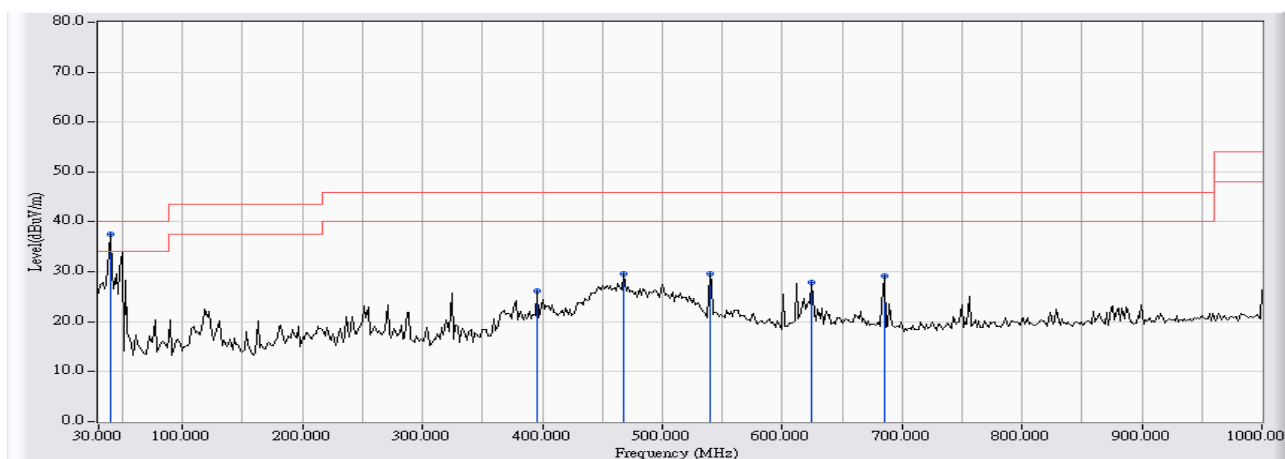


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	47.783	-15.470	53.905	38.435	-1.565	40.000	QUASPEAK
2		99.517	-13.627	53.883	40.256	-3.244	43.500	QUASPEAK
3		374.350	-8.111	39.329	31.218	-14.782	46.000	QUASPEAK
4		624.933	-4.207	35.174	30.967	-15.033	46.000	QUASPEAK
5		684.750	-3.982	34.589	30.608	-15.392	46.000	QUASPEAK
6		873.900	-2.174	31.184	29.010	-16.990	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 17:26
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-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_CH6

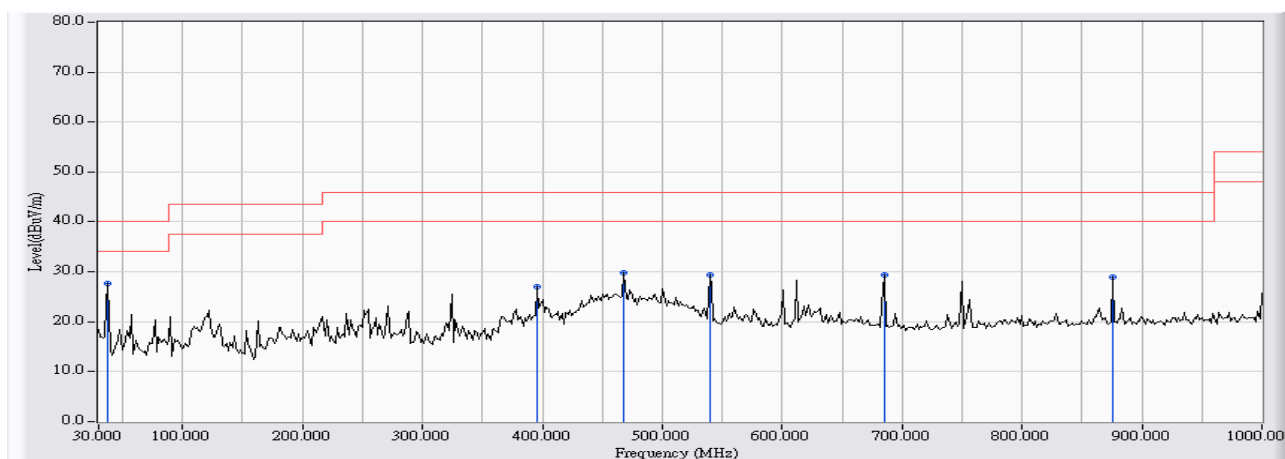


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	39.700	-12.268	49.778	37.510	-2.490	40.000	QUASPEAK
2		395.367	-7.504	33.739	26.235	-19.765	46.000	QUASPEAK
3		468.117	-5.987	35.645	29.658	-16.342	46.000	QUASPEAK
4		539.250	-4.868	34.541	29.673	-16.327	46.000	QUASPEAK
5		624.933	-4.207	32.113	27.906	-18.094	46.000	QUASPEAK
6		684.750	-3.982	33.167	29.186	-16.814	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 17:30
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-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_CH6

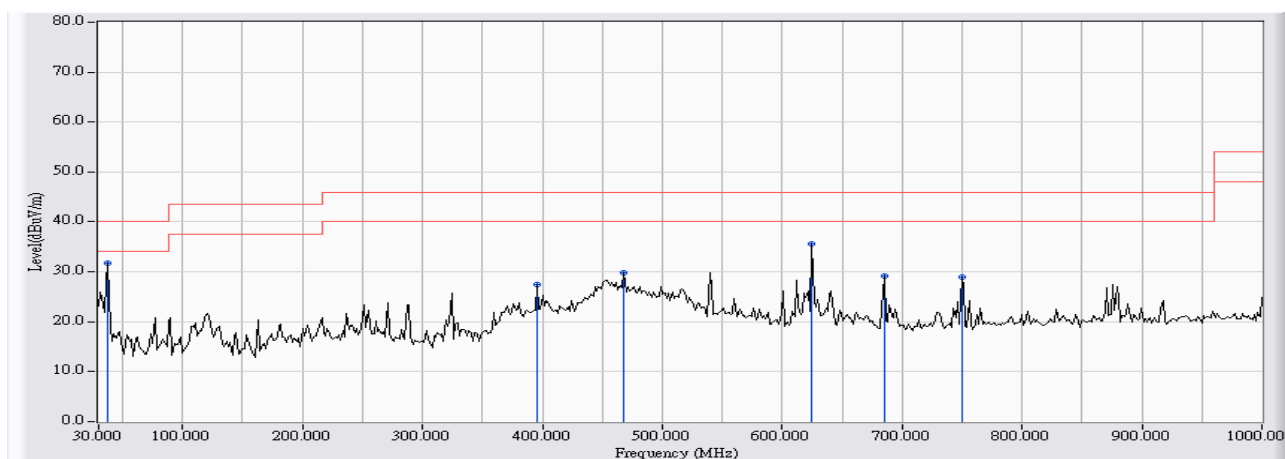


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	39.427	27.656	-12.344	40.000	QUASPEAK
2		395.367	-7.504	34.519	27.015	-18.985	46.000	QUASPEAK
3		468.117	-5.987	35.701	29.714	-16.286	46.000	QUASPEAK
4		539.250	-4.868	34.183	29.315	-16.685	46.000	QUASPEAK
5		684.750	-3.982	33.364	29.383	-16.617	46.000	QUASPEAK
6		875.517	-2.164	31.050	28.886	-17.114	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 17:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-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_CH6

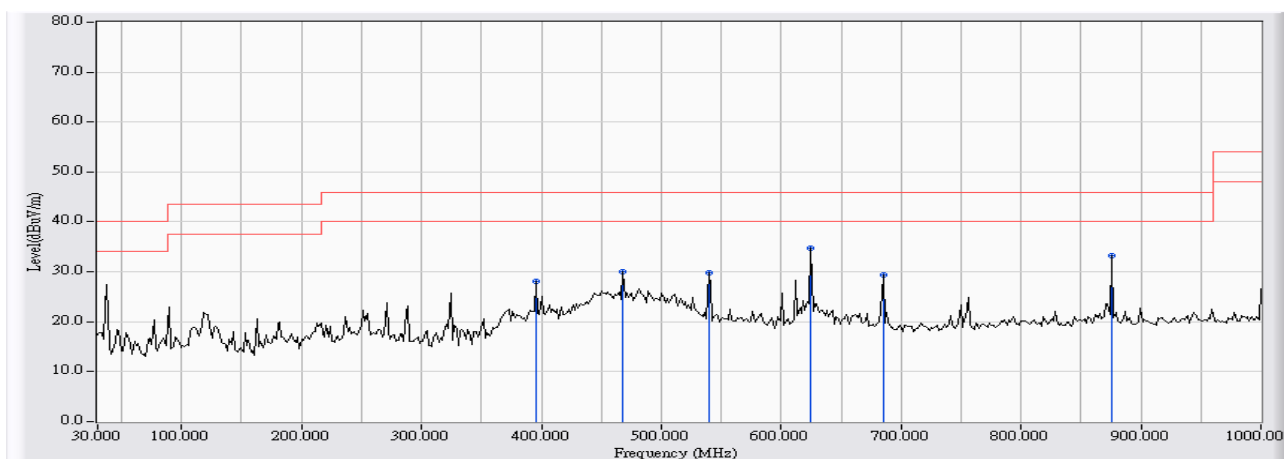


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.474	31.703	-8.297	40.000	QUASPEAK
2		395.367	-7.504	34.917	27.413	-18.587	46.000	QUASPEAK
3		468.117	-5.987	35.791	29.804	-16.196	46.000	QUASPEAK
4		624.933	-4.207	39.915	35.708	-10.292	46.000	QUASPEAK
5		684.750	-3.982	33.212	29.231	-16.769	46.000	QUASPEAK
6		749.417	-3.297	32.315	29.019	-16.981	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/08 - 17:43
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-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_CH6

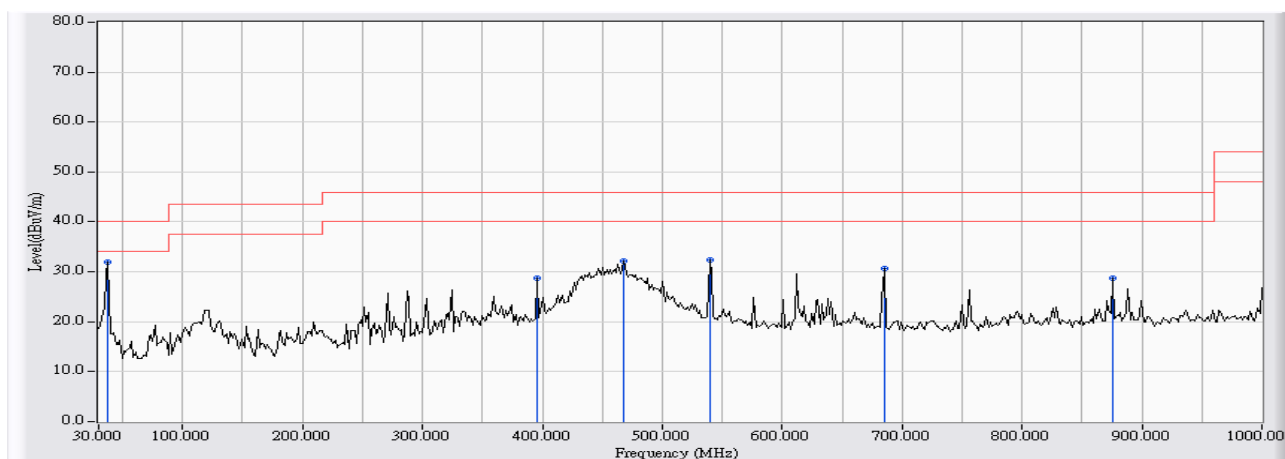


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	395.367	-7.504	35.528	28.024	-17.976	46.000	QUASPEAK
2	468.117	-5.987	35.975	29.988	-16.012	46.000	QUASPEAK
3	539.250	-4.868	34.576	29.708	-16.292	46.000	QUASPEAK
4	* 624.933	-4.207	38.960	34.753	-11.247	46.000	QUASPEAK
5	684.750	-3.982	33.348	29.367	-16.633	46.000	QUASPEAK
6	875.517	-2.164	35.431	33.267	-12.733	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 4: Transmit (External Antenna, Adapter: CAP018121)_802.11b CH6

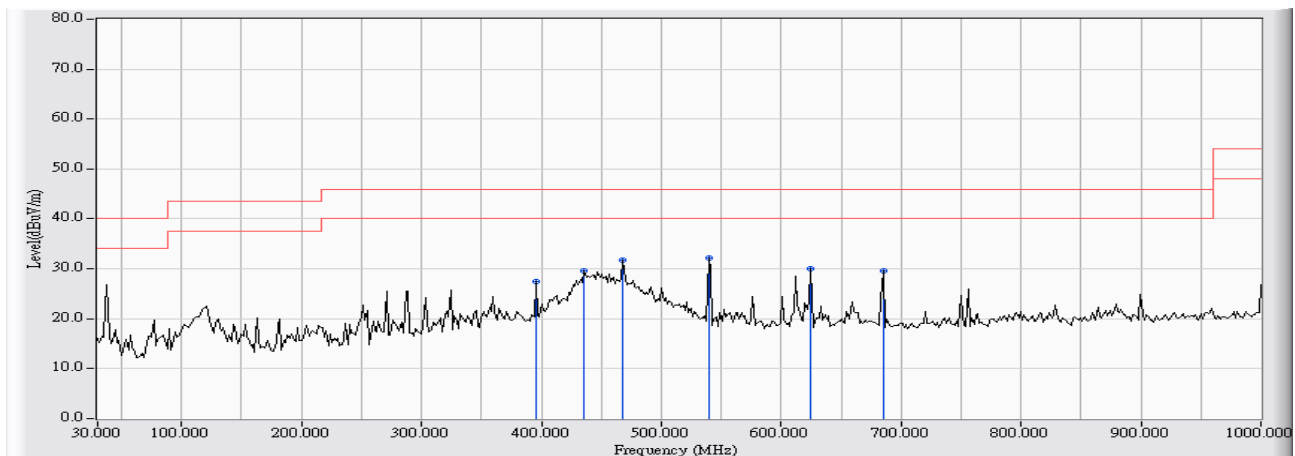


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.786	32.015	-7.985	40.000	QUASPEAK
2		395.367	-7.504	36.183	28.679	-17.321	46.000	QUASPEAK
3		468.117	-5.987	38.113	32.126	-13.874	46.000	QUASPEAK
4		539.250	-4.868	37.265	32.397	-13.603	46.000	QUASPEAK
5		684.750	-3.982	34.637	30.656	-15.344	46.000	QUASPEAK
6		875.517	-2.164	30.938	28.774	-17.226	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 16:55
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 4: Transmit (External Antenna, Adapter: CAP018121)_802.11b CH6

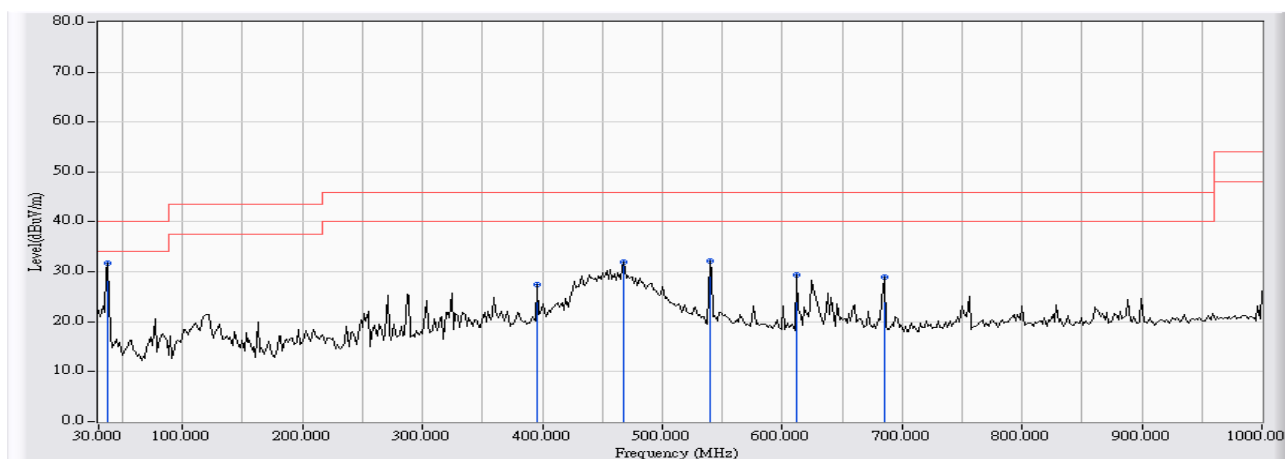


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	395.367	-7.504	34.867	27.363	-18.637	46.000	QUASPEAK
2	435.783	-6.628	36.155	29.527	-16.473	46.000	QUASPEAK
3	468.117	-5.987	37.651	31.664	-14.336	46.000	QUASPEAK
4	* 539.250	-4.868	37.091	32.223	-13.777	46.000	QUASPEAK
5	624.933	-4.207	34.214	30.007	-15.993	46.000	QUASPEAK
6	684.750	-3.982	33.479	29.498	-16.502	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 17:02
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 4: Transmit (External Antenna, Adapter: CAP018121)_802.11g CH6

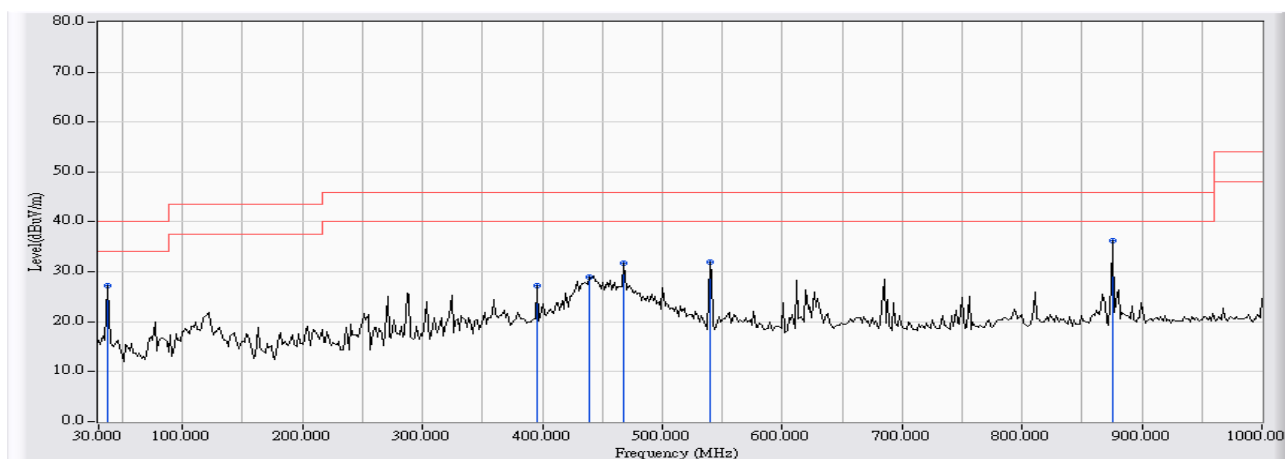


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.616	31.845	-8.155	40.000	QUASPEAK
2		395.367	-7.504	34.904	27.400	-18.600	46.000	QUASPEAK
3		468.117	-5.987	37.969	31.982	-14.018	46.000	QUASPEAK
4		539.250	-4.868	37.039	32.171	-13.829	46.000	QUASPEAK
5		612.000	-4.271	33.761	29.490	-16.510	46.000	QUASPEAK
6		684.750	-3.982	32.995	29.014	-16.986	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 17:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 4: Transmit (External Antenna, Adapter: CAP018121)_802.11g CH6

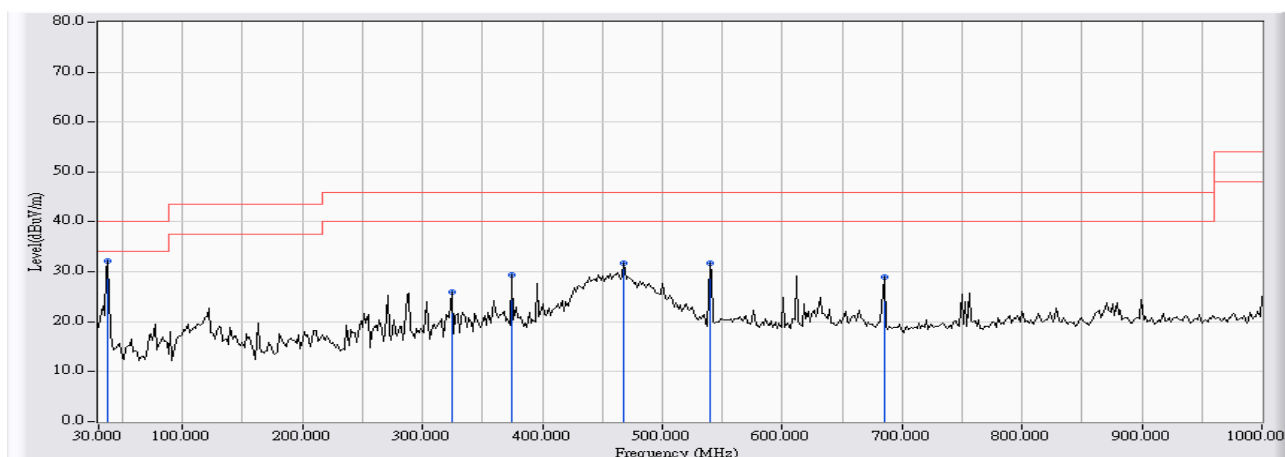


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-11.772	38.927	27.156	-12.844	40.000	QUASPEAK
2	395.367	-7.504	34.824	27.320	-18.680	46.000	QUASPEAK
3	439.017	-6.561	35.461	28.900	-17.100	46.000	QUASPEAK
4	468.117	-5.987	37.773	31.786	-14.214	46.000	QUASPEAK
5	539.250	-4.868	36.867	31.999	-14.001	46.000	QUASPEAK
6	* 875.517	-2.164	38.370	36.206	-9.794	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 17:14
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 4: Transmit (External Antenna, Adapter: CAP018121)_802.11n 20MHz CH6

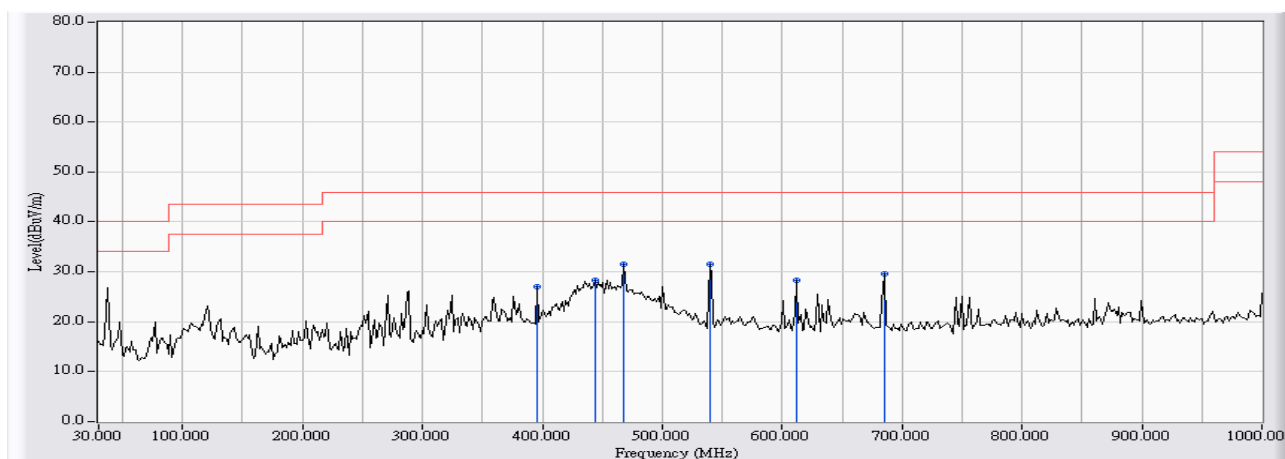


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.979	32.208	-7.792	40.000	QUASPEAK
2		324.233	-9.567	35.466	25.900	-20.100	46.000	QUASPEAK
3		374.350	-8.111	37.501	29.390	-16.610	46.000	QUASPEAK
4		468.117	-5.987	37.785	31.798	-14.202	46.000	QUASPEAK
5		539.250	-4.868	36.589	31.721	-14.279	46.000	QUASPEAK
6		684.750	-3.982	32.978	28.997	-17.003	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 17:19
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 4: Transmit (External Antenna, Adapter: CAP018121)_802.11n 20MHz CH6

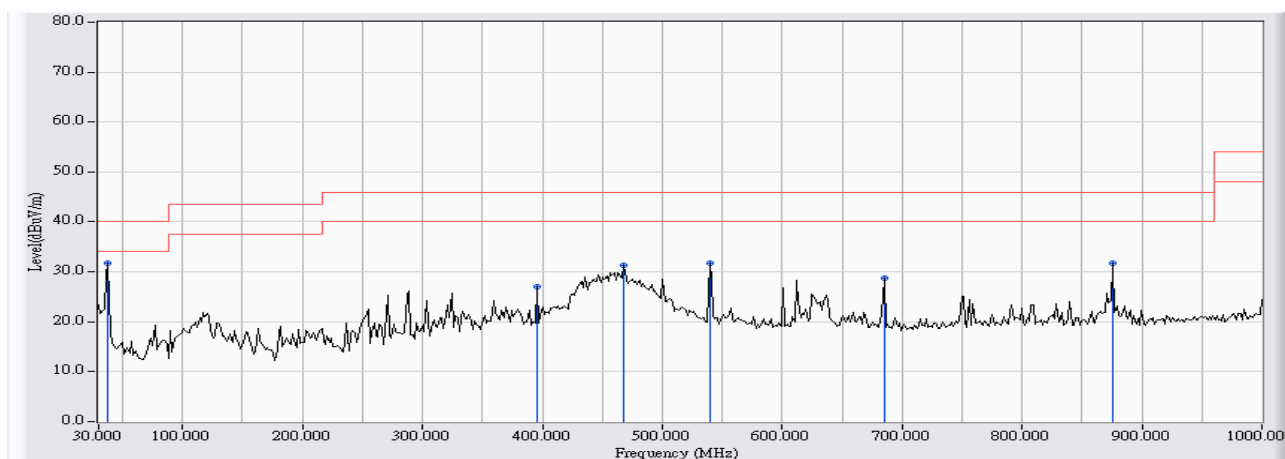


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	395.367	-7.504	34.557	27.053	-18.947	46.000	QUASPEAK
2	443.867	-6.459	34.707	28.247	-17.753	46.000	QUASPEAK
3	468.117	-5.987	37.435	31.448	-14.552	46.000	QUASPEAK
4	* 539.250	-4.868	36.381	31.512	-14.488	46.000	QUASPEAK
5	612.000	-4.271	32.482	28.211	-17.789	46.000	QUASPEAK
6	684.750	-3.982	33.554	29.572	-16.428	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 17:26
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 4: Transmit (External Antenna, Adapter: CAP018121)_802.11n 40MHz CH6

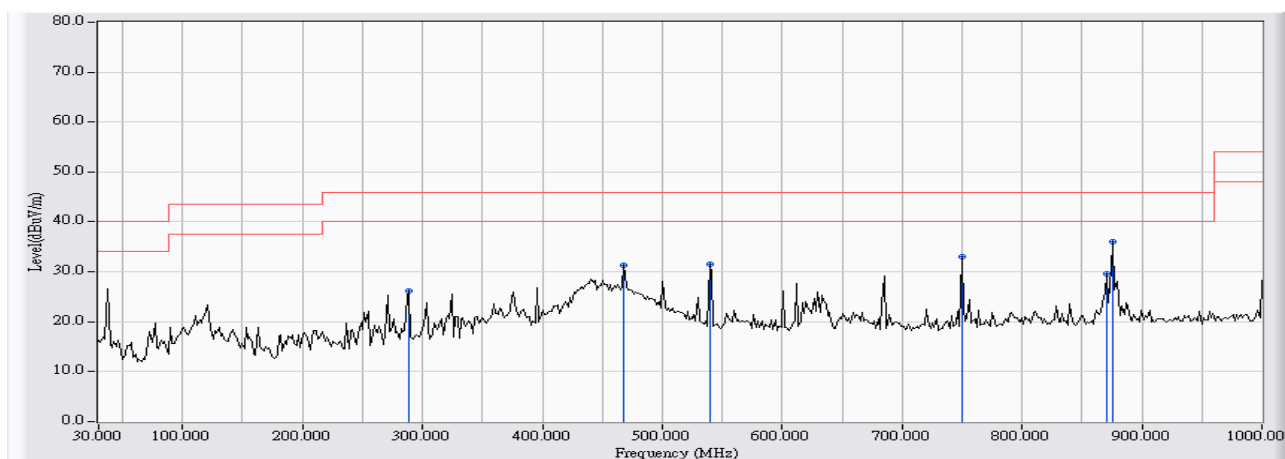


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.083	-11.772	43.545	31.774	-8.226	40.000	QUASPEAK
2		395.367	-7.504	34.450	26.946	-19.054	46.000	QUASPEAK
3		468.117	-5.987	37.308	31.321	-14.679	46.000	QUASPEAK
4		539.250	-4.868	36.640	31.772	-14.228	46.000	QUASPEAK
5		684.750	-3.982	32.701	28.720	-17.280	46.000	QUASPEAK
6		875.517	-2.164	33.928	31.764	-14.236	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/06/10 - 17:31
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : Mode 4: Transmit (External Antenna, Adapter: CAP018121)_802.11n 40MHz CH6



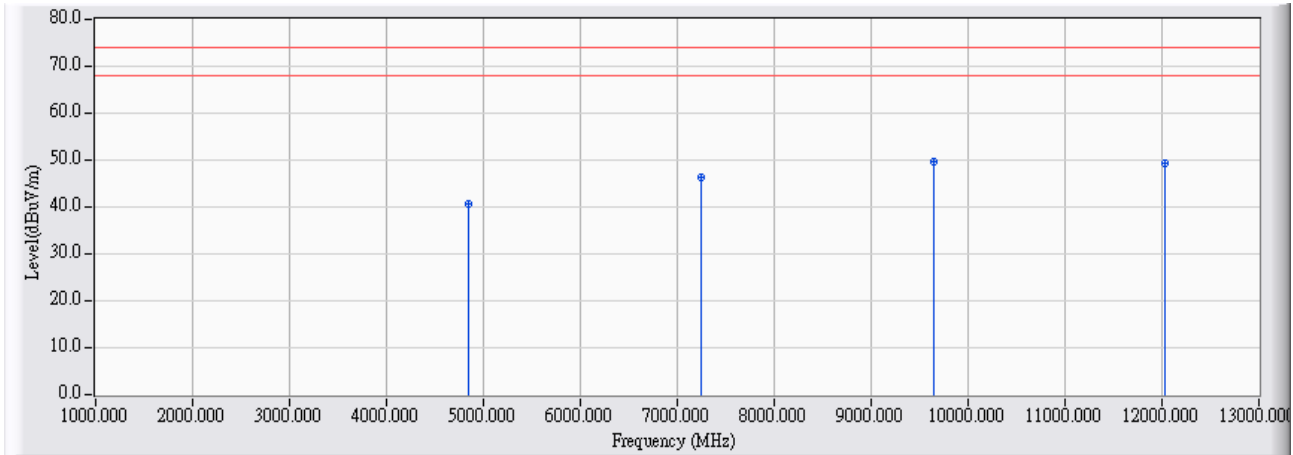
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	288.667	-10.453	36.711	26.258	-19.742	46.000	QUASPEAK
2	468.117	-5.987	37.331	31.344	-14.656	46.000	QUASPEAK
3	539.250	-4.868	36.406	31.537	-14.463	46.000	QUASPEAK
4	749.417	-3.297	36.378	33.081	-12.919	46.000	QUASPEAK
5	870.667	-2.195	31.826	29.632	-16.368	46.000	QUASPEAK
6	* 875.517	-2.164	38.270	36.106	-9.894	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Harmonic & Spurious:

Site : CB1	Time : 2012/06/06 - 20:26
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

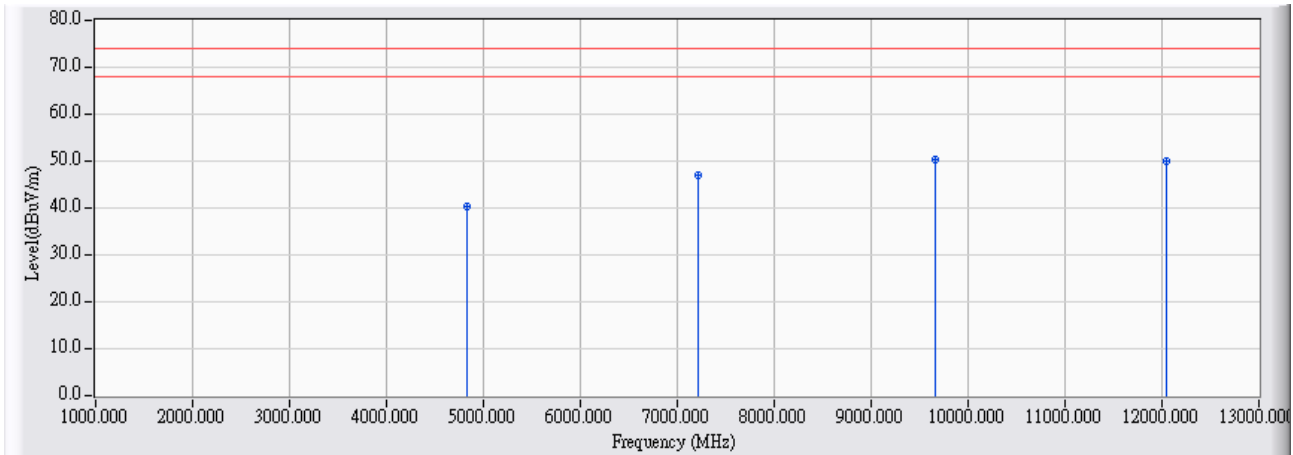


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4842.100	-0.107	40.670	40.563	-33.437	54.000	74.000	PEAK
2	7245.900	7.453	38.880	46.332	-27.668	54.000	74.000	PEAK
3	* 9638.900	10.950	38.560	49.510	-24.490	54.000	74.000	PEAK
4	12036.000	12.509	36.700	49.209	-24.791	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

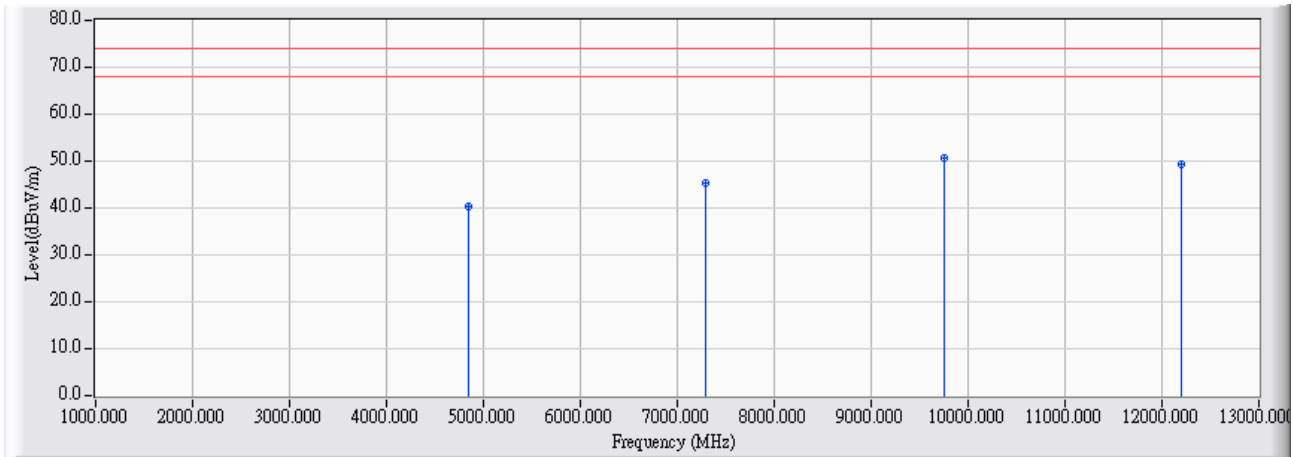


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4832.500	-0.138	40.330	40.192	-33.808	54.000	74.000	PEAK
2	7221.200	7.345	39.520	46.865	-27.135	54.000	74.000	PEAK
3	* 9655.200	11.058	39.170	50.227	-23.773	54.000	74.000	PEAK
4	12047.700	12.513	37.490	50.003	-23.997	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

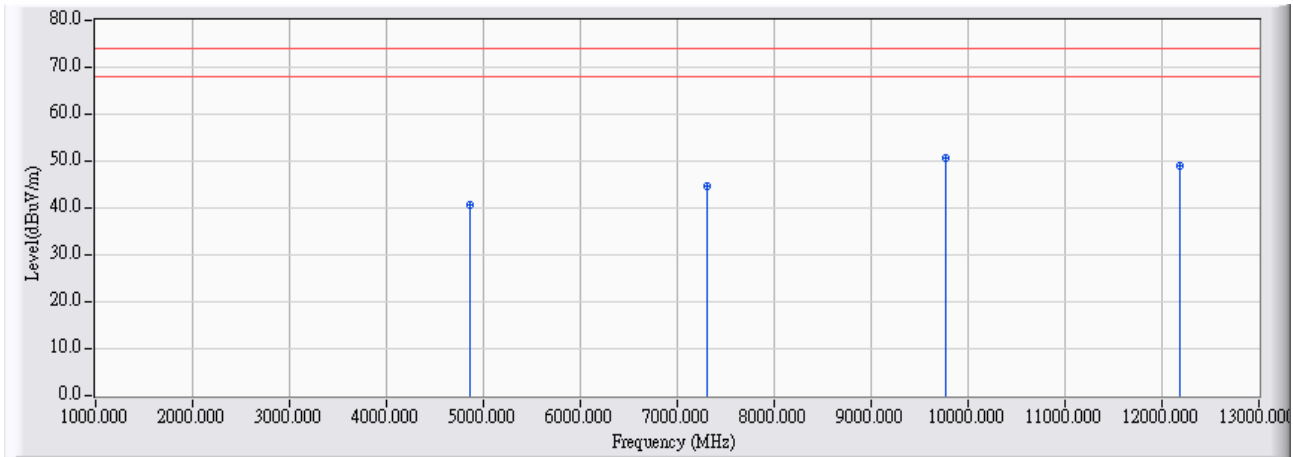


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4852.700	-0.073	40.500	40.427	-33.573	54.000	74.000	PEAK
2	7298.200	7.679	37.670	45.349	-28.651	54.000	74.000	PEAK
3	* 9760.000	11.745	38.820	50.566	-23.434	54.000	74.000	PEAK
4	12198.900	12.566	36.930	49.495	-24.505	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Engineer :	
Site : CB1	Time : 2012/06/06 - 20:38
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

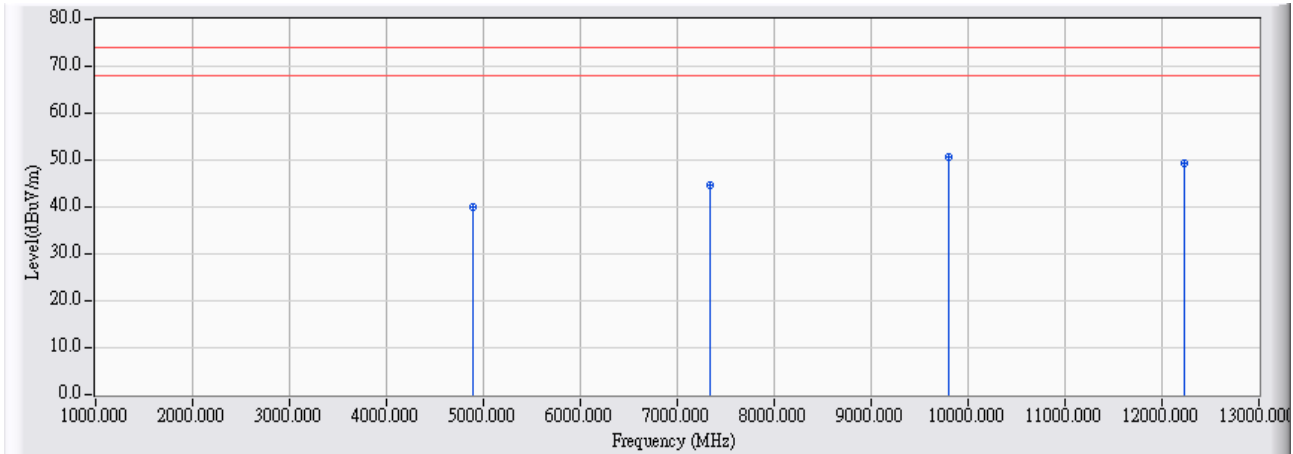


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4855.700	-0.064	40.630	40.566	-33.434	54.000	74.000	PEAK
2	7307.900	7.722	37.000	44.721	-29.279	54.000	74.000	PEAK
3	* 9763.000	11.765	38.860	50.625	-23.375	54.000	74.000	PEAK
4	12188.600	12.562	36.460	49.022	-24.978	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Engineer :	
Site : CB1	Time : 2012/06/06 - 20:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

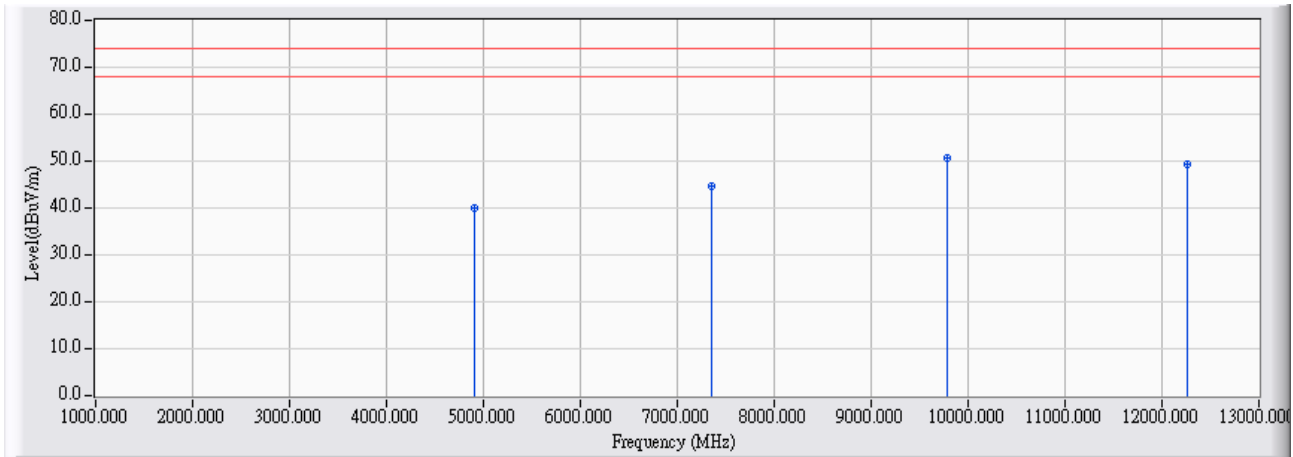


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4886.600	0.036	39.970	40.005	-33.995	54.000	74.000	PEAK
2	7344.800	7.881	36.640	44.521	-29.479	54.000	74.000	PEAK
3	* 9804.700	12.039	38.540	50.579	-23.421	54.000	74.000	PEAK
4	12235.500	12.578	36.777	49.355	-24.645	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:41
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

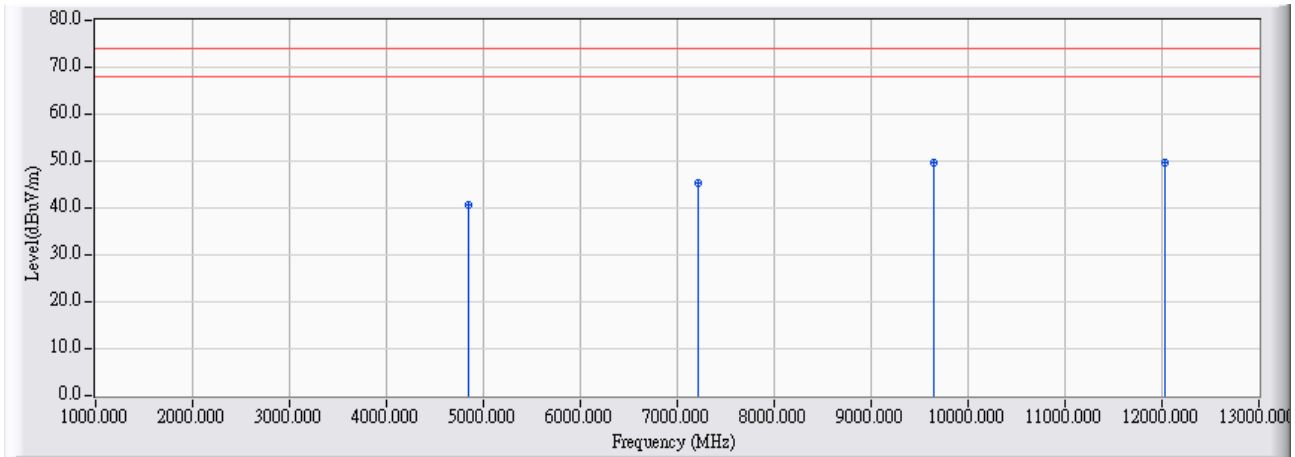


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4902.700	0.087	39.800	39.887	-34.113	54.000	74.000	PEAK
2	7361.200	7.951	36.650	44.602	-29.398	54.000	74.000	PEAK
3	* 9785.500	11.913	38.900	50.813	-23.187	54.000	74.000	PEAK
4	12257.500	12.586	36.800	49.386	-24.614	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:44
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

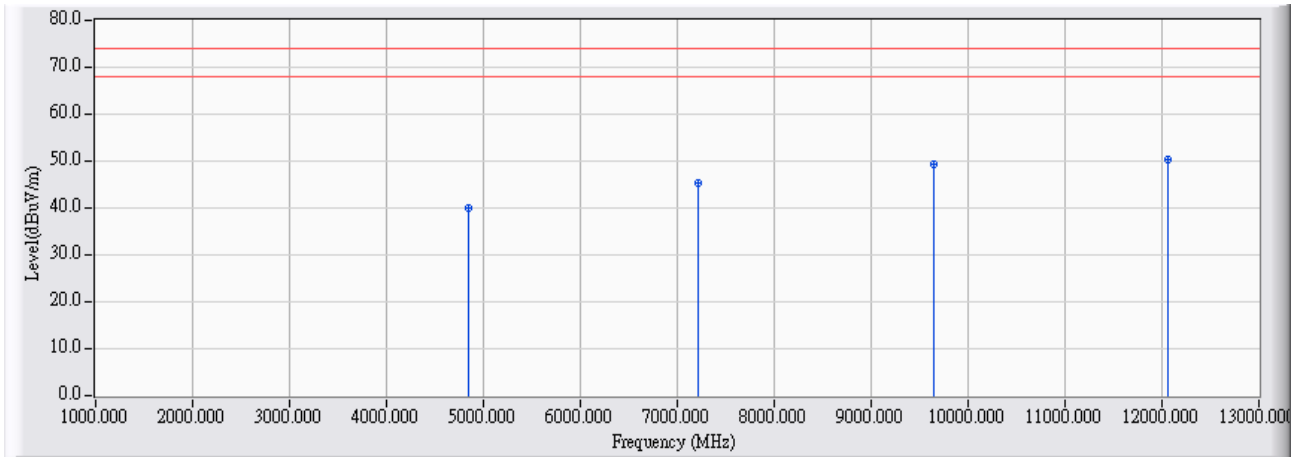


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4844.400	-0.099	40.690	40.590	-33.410	54.000	74.000	PEAK
2	7223.000	7.354	38.060	45.413	-28.587	54.000	74.000	PEAK
3	9641.800	10.969	38.650	49.619	-24.381	54.000	74.000	PEAK
4	* 12035.000	12.508	37.170	49.678	-24.322	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

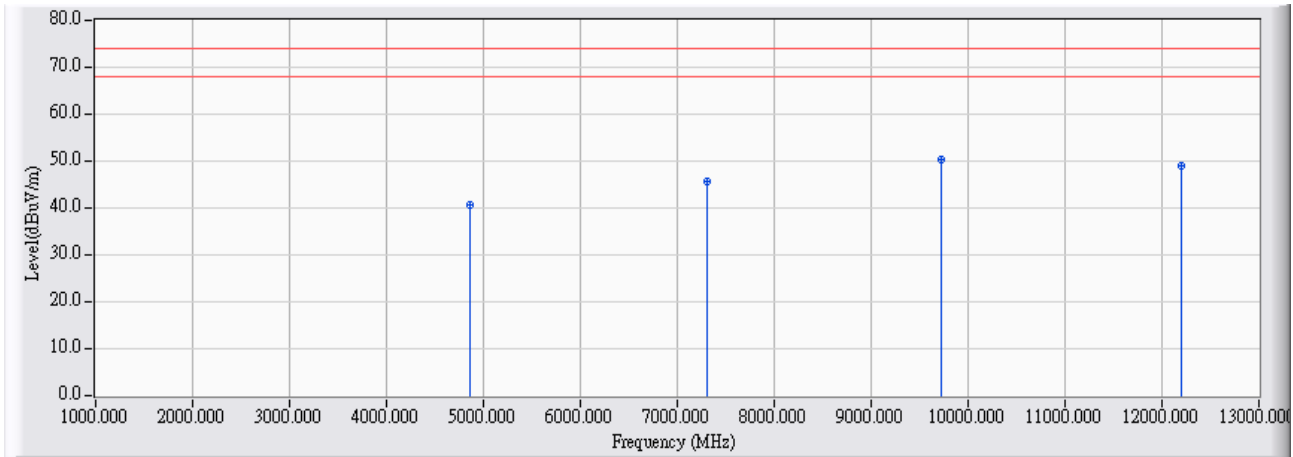


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4846.100	-0.094	39.950	39.856	-34.144	54.000	74.000	PEAK
2	7214.900	7.319	37.980	45.298	-28.702	54.000	74.000	PEAK
3	9639.500	10.954	38.470	49.424	-24.576	54.000	74.000	PEAK
4	* 12065.700	12.520	37.740	50.259	-23.741	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:52
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

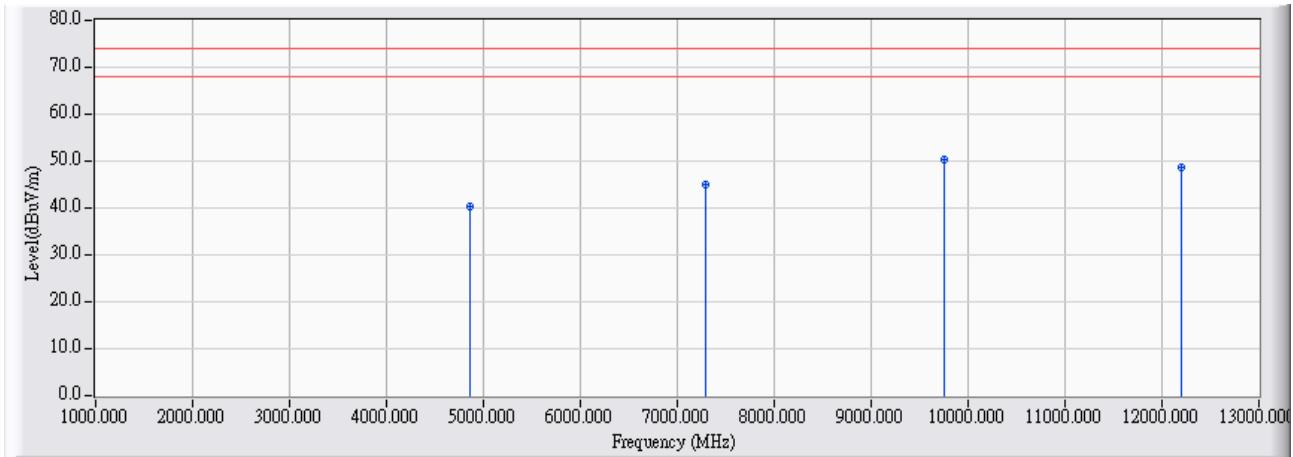


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4855.600	-0.064	40.600	40.536	-33.464	54.000	74.000	PEAK
2	7301.200	7.692	37.870	45.562	-28.438	54.000	74.000	PEAK
3	* 9725.300	11.518	38.700	50.218	-23.782	54.000	74.000	PEAK
4	12201.400	12.566	36.600	49.166	-24.834	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

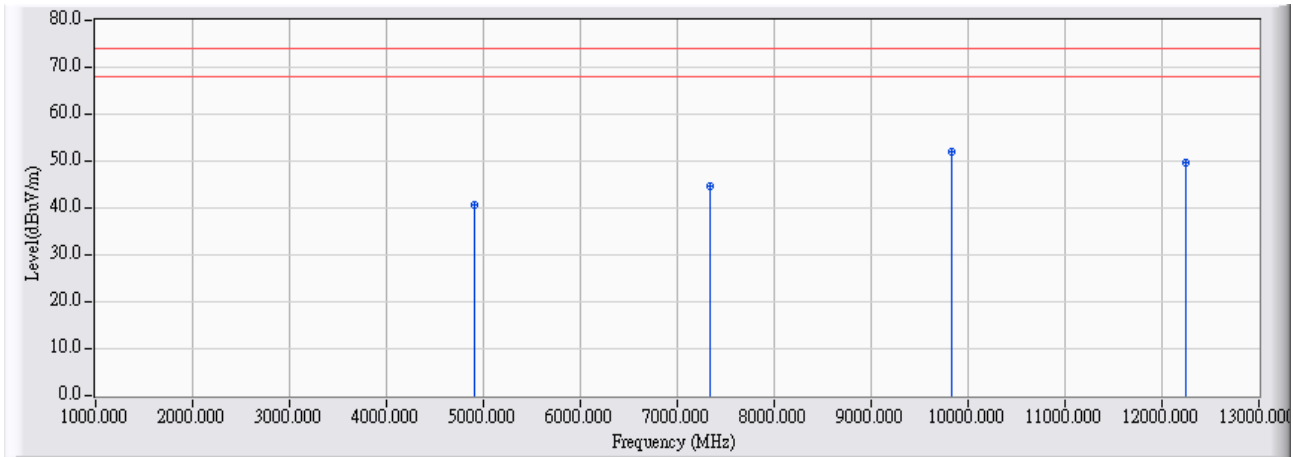


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4867.500	-0.026	40.460	40.434	-33.566	54.000	74.000	PEAK
2	7294.800	7.665	37.250	44.914	-29.086	54.000	74.000	PEAK
3	* 9750.300	11.682	38.640	50.322	-23.678	54.000	74.000	PEAK
4	12198.100	12.565	36.220	48.785	-25.215	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

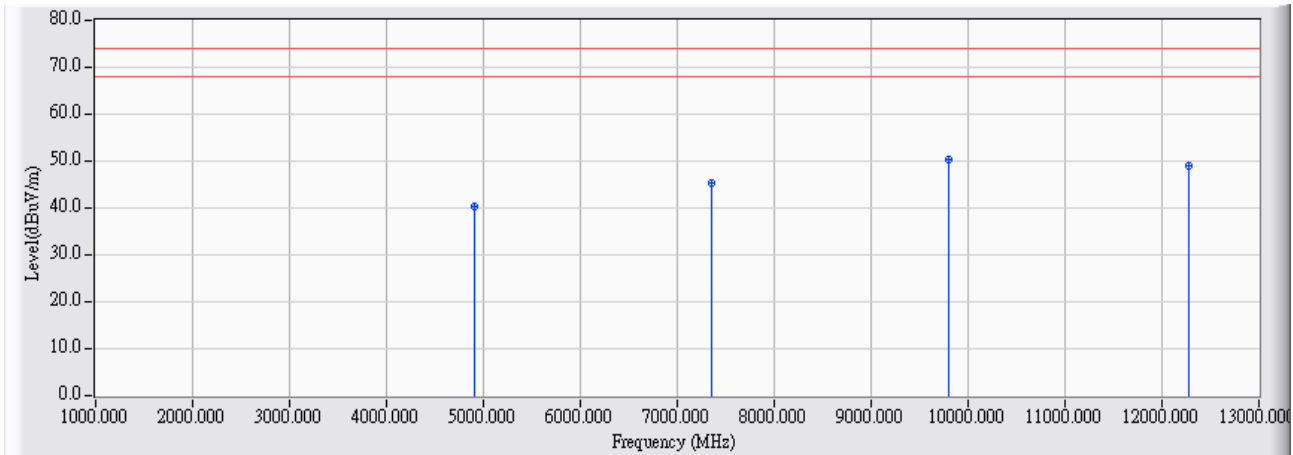


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4915.200	0.127	40.700	40.827	-33.173	54.000	74.000	PEAK
2	7345.600	7.884	36.870	44.754	-29.246	54.000	74.000	PEAK
3	* 9828.800	12.198	39.690	51.888	-22.112	54.000	74.000	PEAK
4	12251.000	12.584	36.960	49.544	-24.456	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 20:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

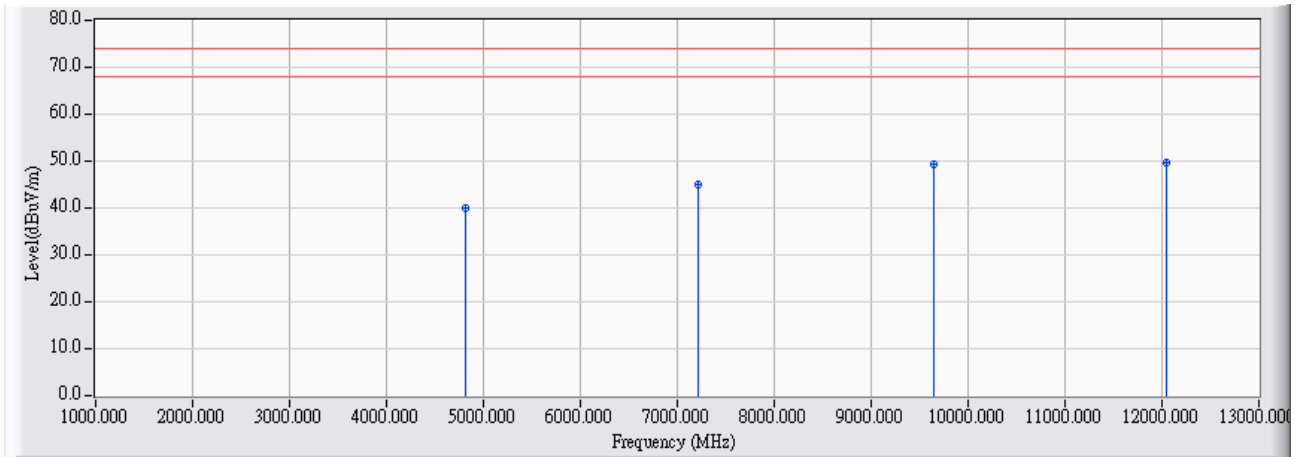


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4907.900	0.103	40.290	40.394	-33.606	54.000	74.000	PEAK
2	7360.000	7.947	37.430	45.377	-28.623	54.000	74.000	PEAK
3	* 9800.100	12.009	38.310	50.319	-23.681	54.000	74.000	PEAK
4	12277.800	12.593	36.360	48.953	-25.047	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 21:03
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

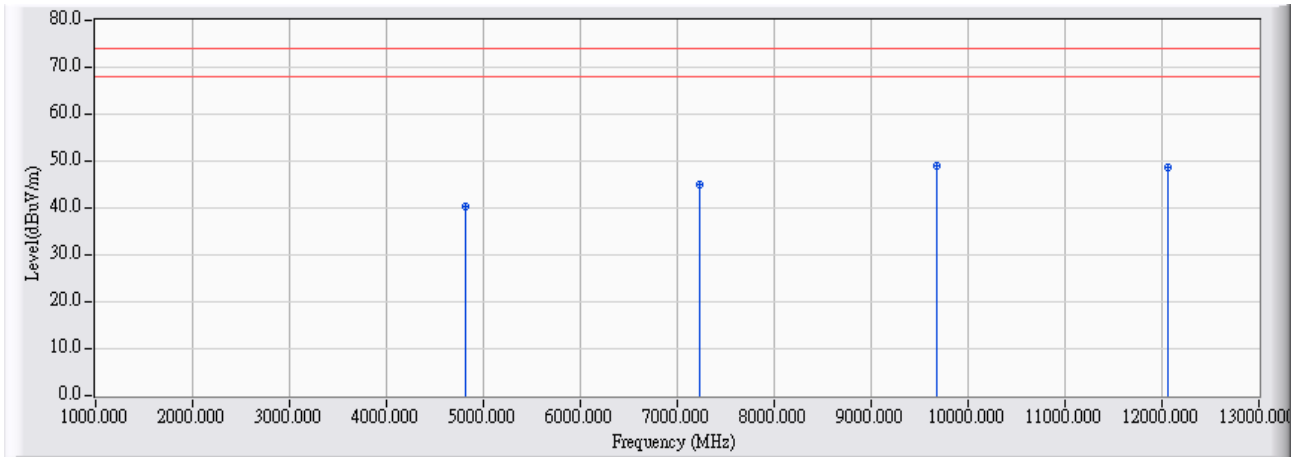


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4808.900	-0.214	40.160	39.946	-34.054	54.000	74.000	PEAK
2	7220.400	7.342	37.820	45.162	-28.838	54.000	74.000	PEAK
3	9648.700	11.014	38.280	49.295	-24.705	54.000	74.000	PEAK
4	* 12053.100	12.515	37.310	49.825	-24.175	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 21:04
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

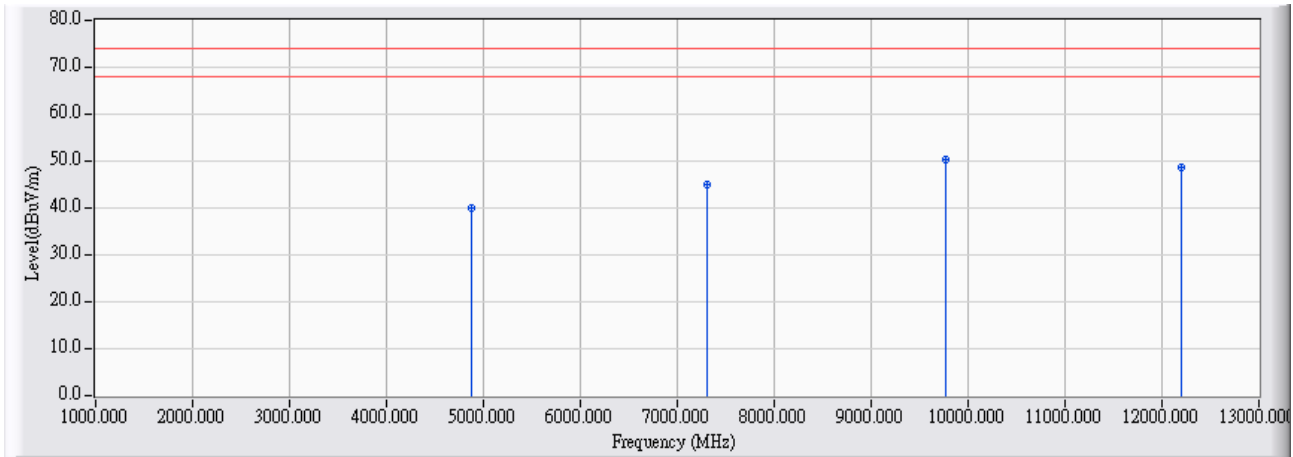


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4815.400	-0.192	40.420	40.227	-33.773	54.000	74.000	PEAK
2	7237.000	7.414	37.710	45.124	-28.876	54.000	74.000	PEAK
3	* 9672.800	11.174	37.920	49.093	-24.907	54.000	74.000	PEAK
4	12054.400	12.516	36.280	48.795	-25.205	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 21:08
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

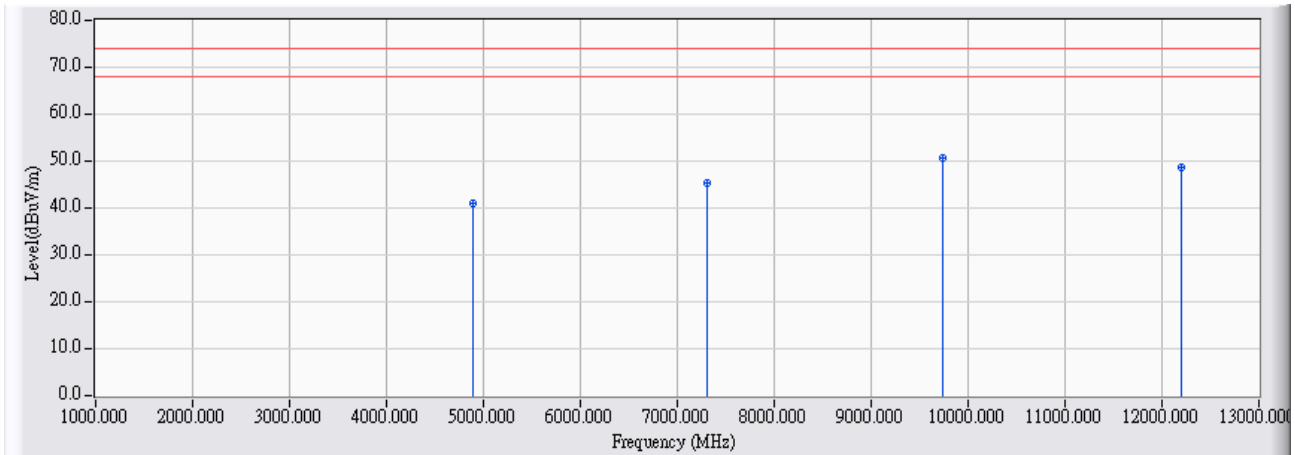


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4879.800	0.014	39.990	40.004	-33.996	54.000	74.000	PEAK
2	7301.000	7.691	37.200	44.891	-29.109	54.000	74.000	PEAK
3	* 9761.600	11.757	38.620	50.376	-23.624	54.000	74.000	PEAK
4	12198.200	12.565	36.170	48.735	-25.265	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 21:09
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

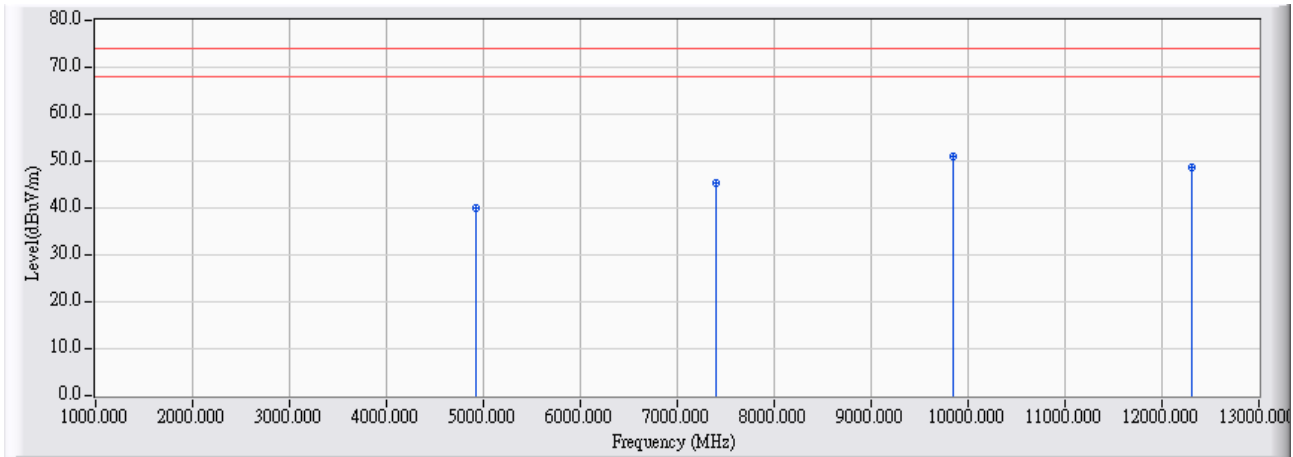


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4898.800	0.075	40.870	40.944	-33.056	54.000	74.000	PEAK
2	7308.600	7.724	37.630	45.354	-28.646	54.000	74.000	PEAK
3	* 9743.300	11.636	39.040	50.676	-23.324	54.000	74.000	PEAK
4	12207.300	12.569	35.990	48.558	-25.442	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 21:12
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

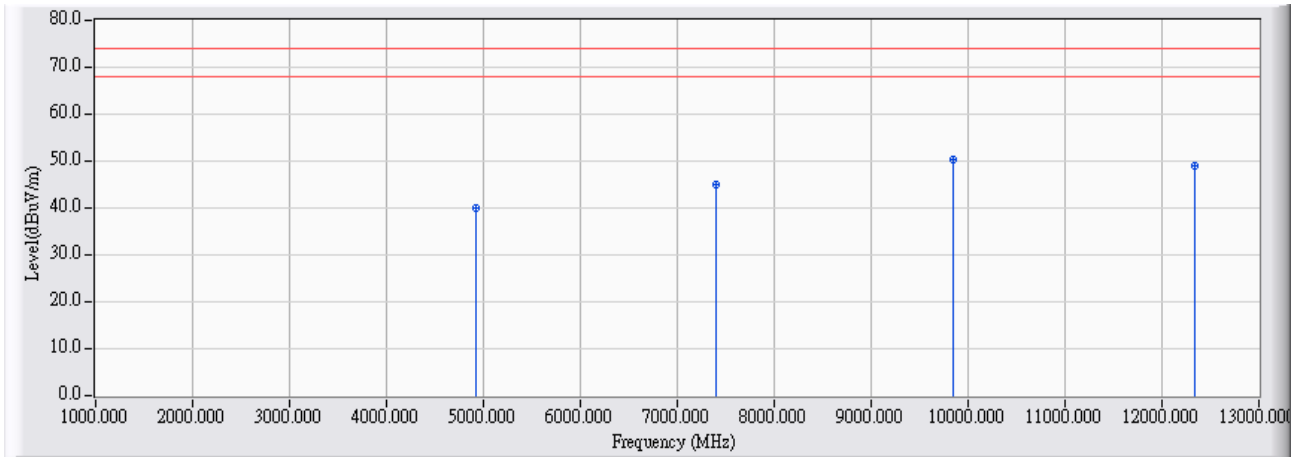


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4926.000	0.162	39.920	40.082	-33.918	54.000	74.000	PEAK
2	7395.500	8.100	37.300	45.401	-28.599	54.000	74.000	PEAK
3	* 9851.800	12.348	38.570	50.919	-23.081	54.000	74.000	PEAK
4	12303.400	12.601	36.220	48.822	-25.178	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/06 - 21:13
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

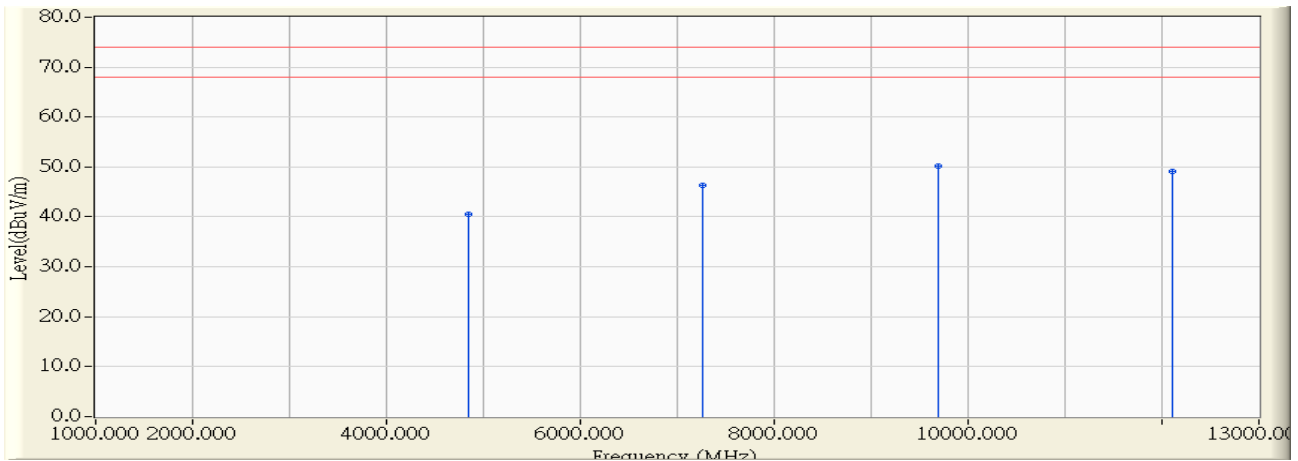


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4916.500	0.132	39.950	40.081	-33.919	54.000	74.000	PEAK
2	7394.600	8.097	36.830	44.927	-29.073	54.000	74.000	PEAK
3	* 9848.400	12.325	38.080	50.406	-23.594	54.000	74.000	PEAK
4	12331.200	12.611	36.520	49.131	-24.869	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 11:51
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

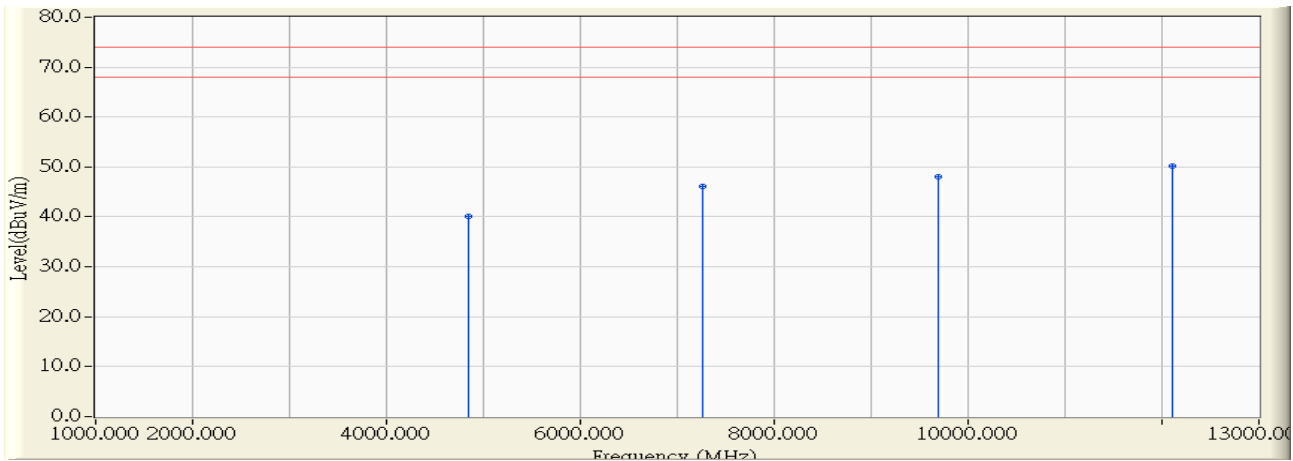


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4847.840	-0.740	41.304	40.563	-33.437	54.000	74.000	PEAK
2	7265.980	5.569	40.753	46.322	-27.678	54.000	74.000	PEAK
3	* 9687.460	9.517	40.586	50.103	-23.897	54.000	74.000	PEAK
4	12108.980	11.507	37.693	49.201	-24.799	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 11:53
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

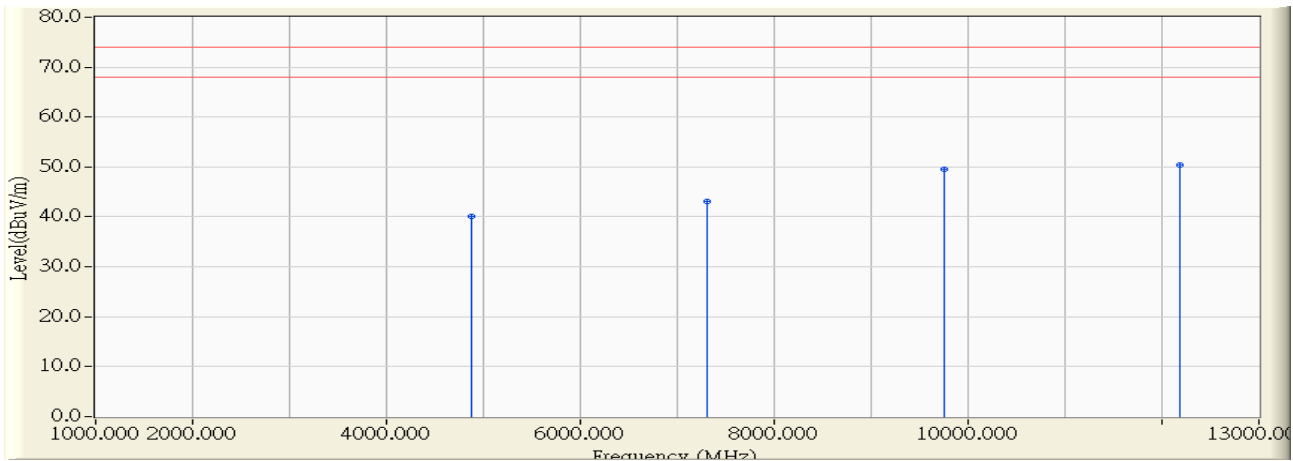


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4845.310	-0.747	40.770	40.023	-33.977	54.000	74.000	PEAK
2	7267.320	5.573	40.555	46.127	-27.873	54.000	74.000	PEAK
3	9689.123	9.529	38.481	48.010	-25.990	54.000	74.000	PEAK
4	* 12110.342	11.508	38.771	50.278	-23.722	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 11:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_ CH06

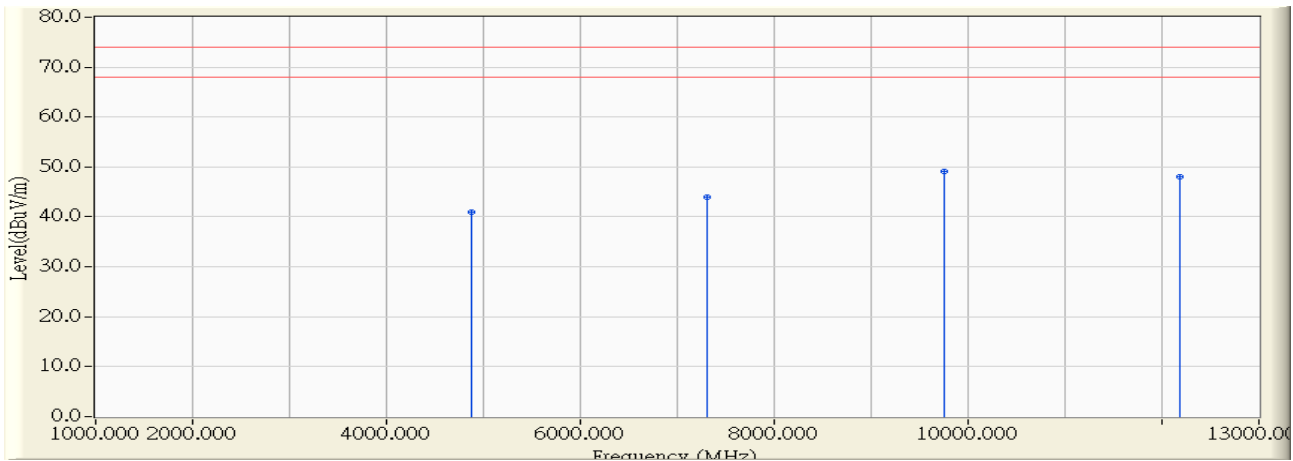


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4873.122	-0.673	40.797	40.123	-33.877	54.000	74.000	PEAK
2	7311.000	5.678	37.448	43.125	-30.875	54.000	74.000	PEAK
3	9747.900	9.954	39.609	49.564	-24.436	54.000	74.000	PEAK
4	* 12184.130	11.481	38.975	50.456	-23.544	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 11:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

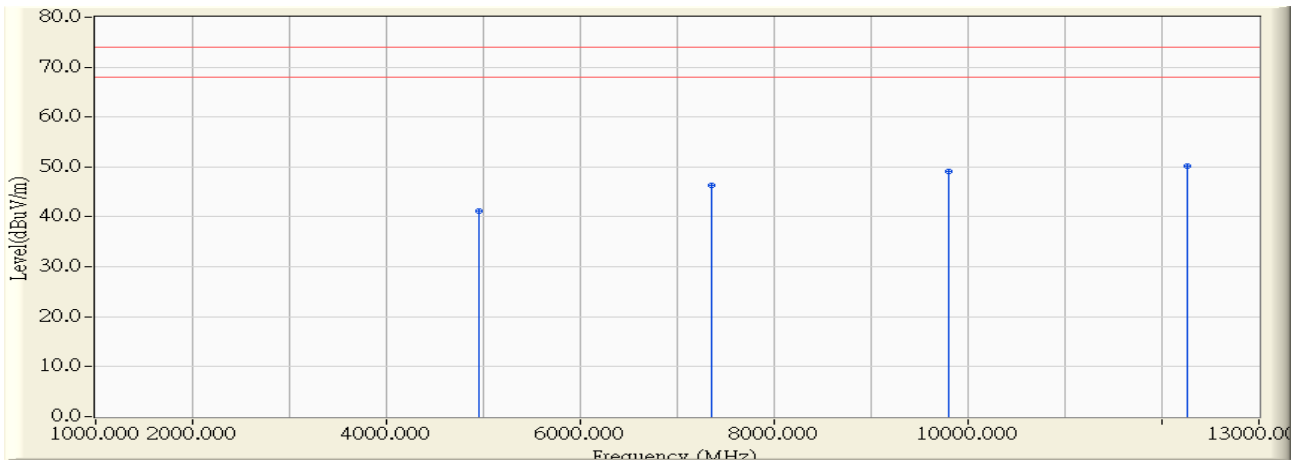


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4873.165	-0.673	41.534	40.860	-33.140	54.000	74.000	PEAK
2	7310.163	5.675	38.340	44.015	-29.985	54.000	74.000	PEAK
3	* 9748.021	9.955	39.260	49.216	-24.784	54.000	74.000	PEAK
4	12185.010	11.481	36.645	48.126	-25.874	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 12:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

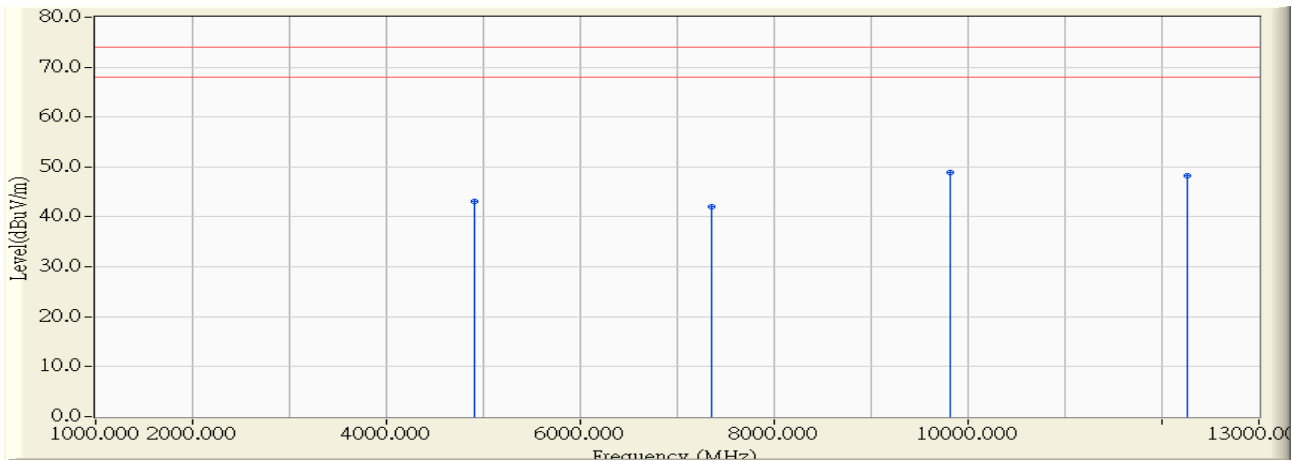


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4952.000	-0.467	41.597	41.130	-32.870	54.000	74.000	PEAK
2	7354.126	5.781	40.635	46.416	-27.584	54.000	74.000	PEAK
3	9807.416	10.386	38.744	49.130	-24.870	54.000	74.000	PEAK
4	* 12258.130	11.456	38.675	50.130	-23.870	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 13:08
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

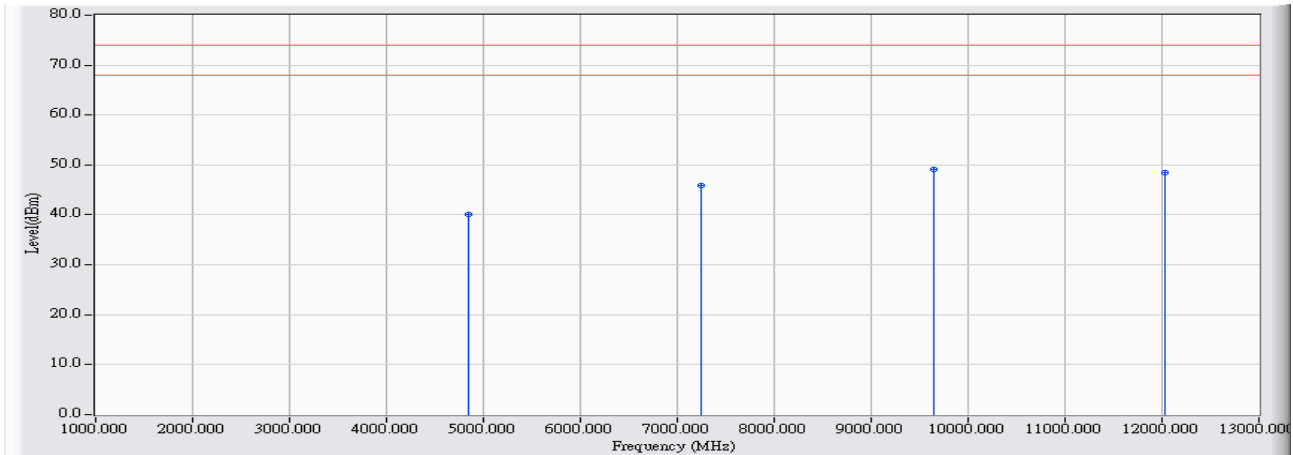


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4904.120	-0.593	43.713	43.120	-30.880	54.000	74.000	PEAK
2	7355.123	5.784	36.339	42.123	-31.877	54.000	74.000	PEAK
3	* 9808.123	10.391	38.432	48.823	-25.177	54.000	74.000	PEAK
4	12260.000	11.455	36.885	48.340	-25.660	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

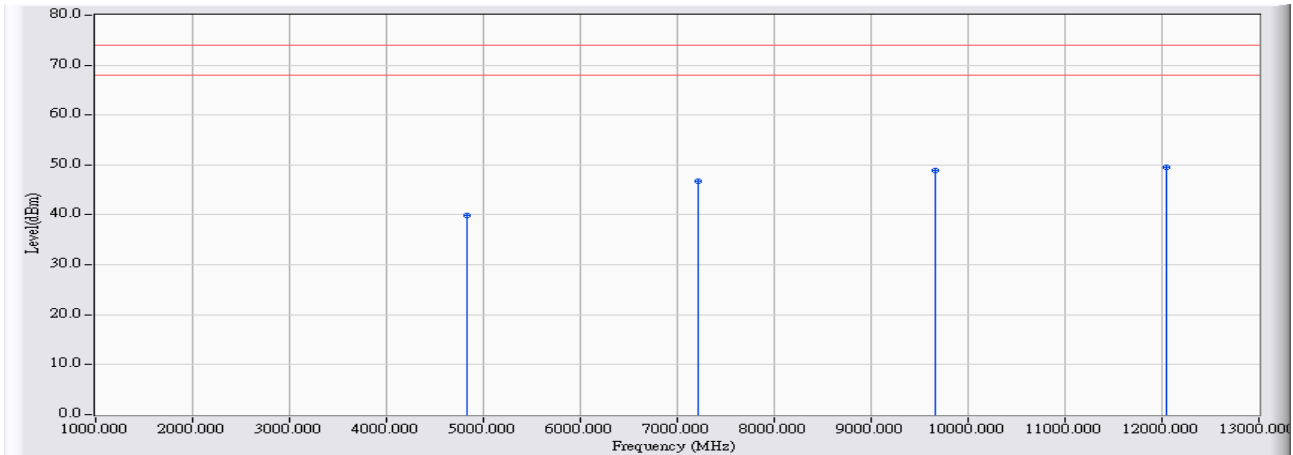


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4842.026	-0.107	40.108	40.001	-33.999	54.000	74.000	PEAK
2	7245.926	7.453	38.495	45.948	-28.052	54.000	74.000	PEAK
3	* 9638.921	10.951	38.088	49.039	-24.961	54.000	74.000	PEAK
4	12036.030	12.509	36.037	48.546	-25.454	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : VDSL2 Router with WLAN/VoIP	Note : T Mode 3: Transmit (External Antenna, Adapter: SAG024F 3)x_802.11b_CH01

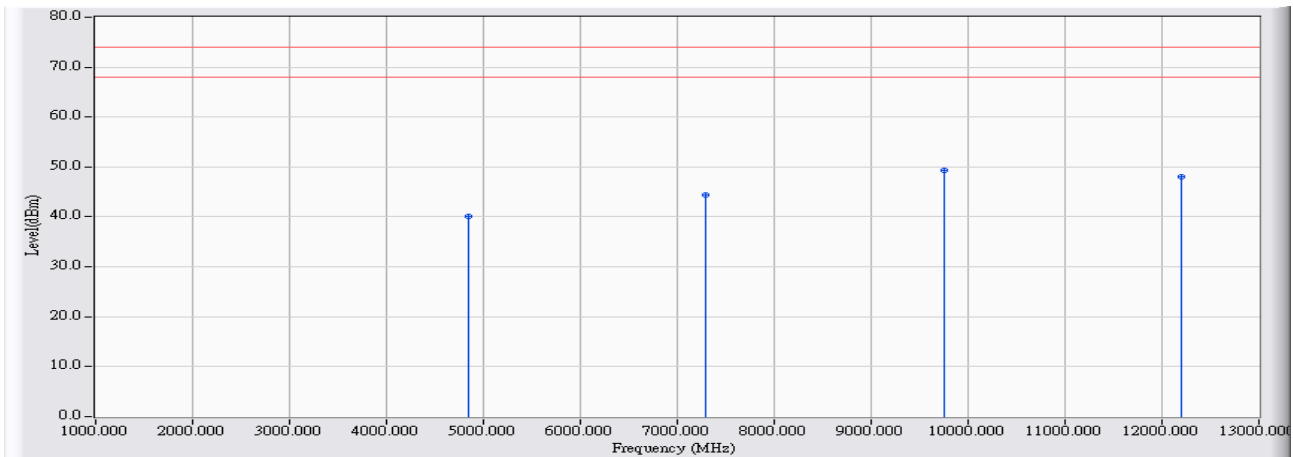


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4832.426	-0.138	40.125	39.987	-34.013	54.000	74.000	PEAK
2	7221.240	7.345	39.346	46.691	-27.309	54.000	74.000	PEAK
3	9655.221	11.058	37.808	48.865	-25.135	54.000	74.000	PEAK
4	* 12047.745	12.513	37.067	49.579	-24.421	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

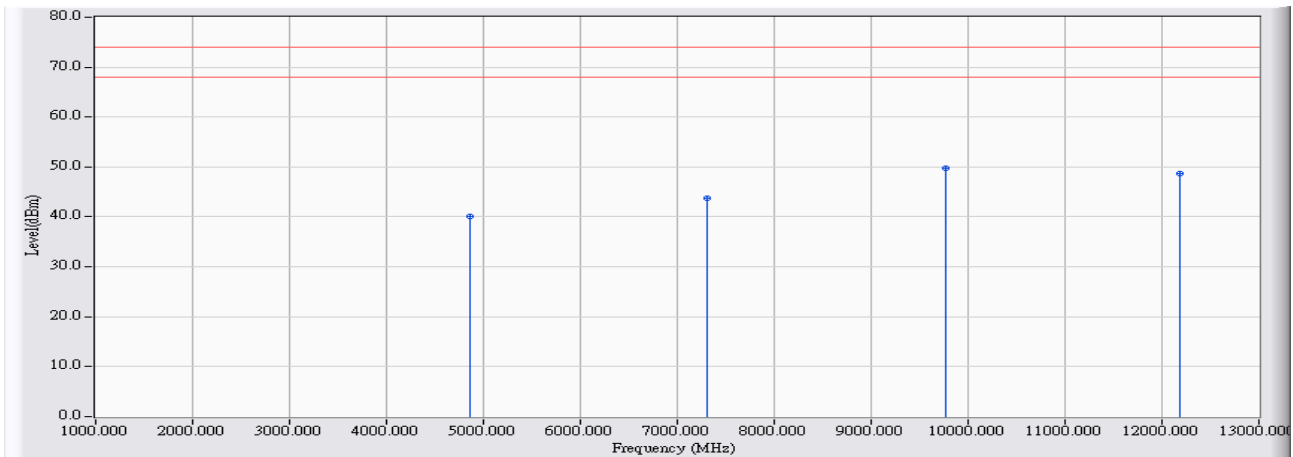


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4852.606	-0.073	40.087	40.014	-33.986	54.000	74.000	PEAK
2	7298.117	7.679	36.793	44.472	-29.528	54.000	74.000	PEAK
3	* 9760.016	11.745	37.687	49.433	-24.567	54.000	74.000	PEAK
4	12198.902	12.566	35.439	48.004	-25.996	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

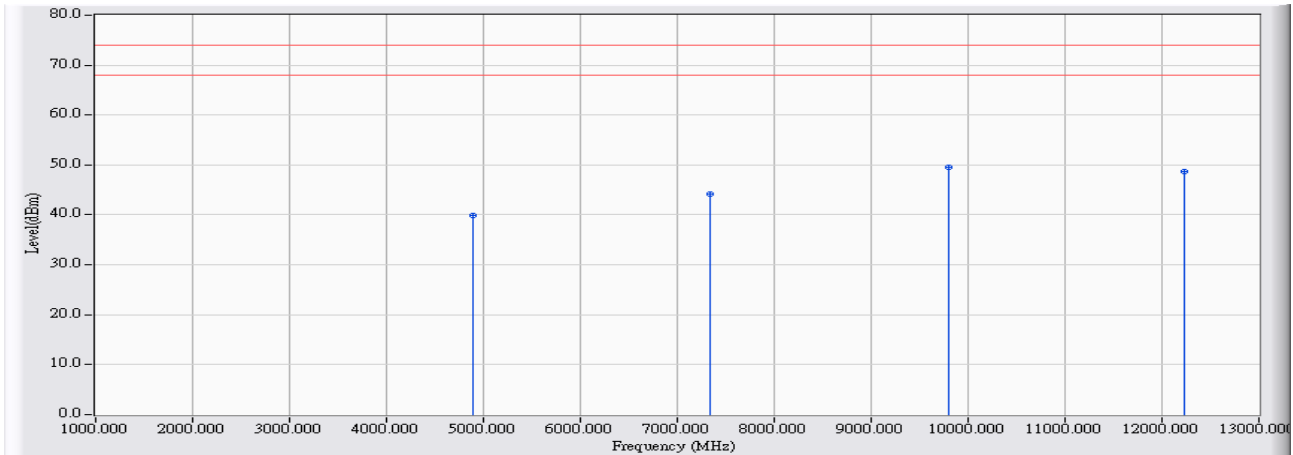


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4855.603	-0.064	40.150	40.086	-33.914	54.000	74.000	PEAK
2	7307.789	7.722	36.098	43.820	-30.180	54.000	74.000	PEAK
3	* 9763.020	11.765	37.996	49.761	-24.239	54.000	74.000	PEAK
4	12188.518	12.562	36.119	48.681	-25.319	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

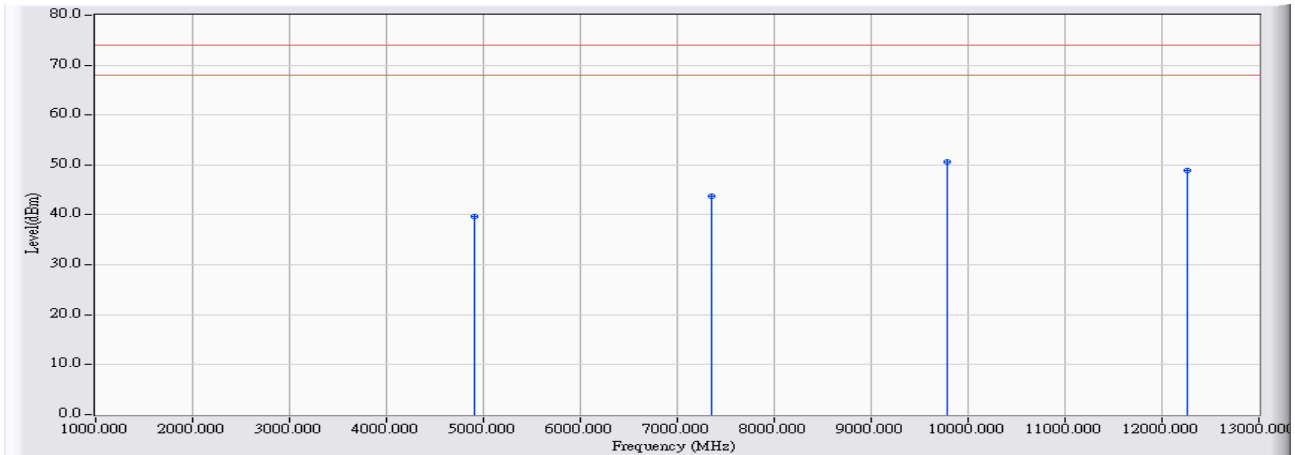


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4886.491	0.036	39.888	39.924	-34.076	54.000	74.000	PEAK
2	7344.838	7.881	36.221	44.102	-29.898	54.000	74.000	PEAK
3	* 9804.700	12.039	37.541	49.580	-24.420	54.000	74.000	PEAK
4	12235.540	12.578	36.159	48.737	-25.263	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

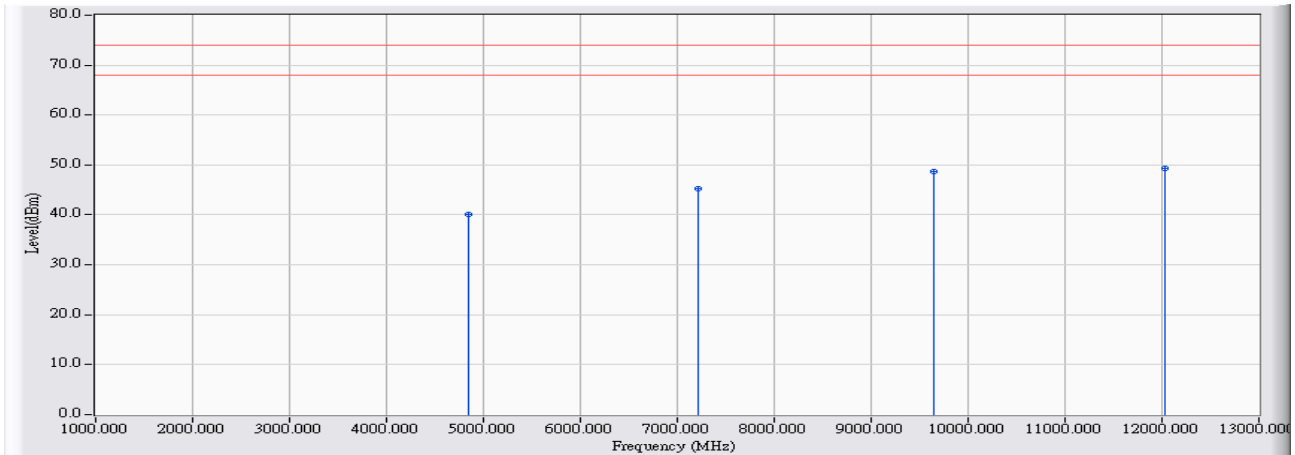


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4902.716	0.087	39.673	39.760	-34.240	54.000	74.000	PEAK
2	7361.140	7.951	35.866	43.817	-30.183	54.000	74.000	PEAK
3	* 9785.556	11.913	38.708	50.621	-23.379	54.000	74.000	PEAK
4	12257.420	12.586	36.367	48.953	-25.047	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

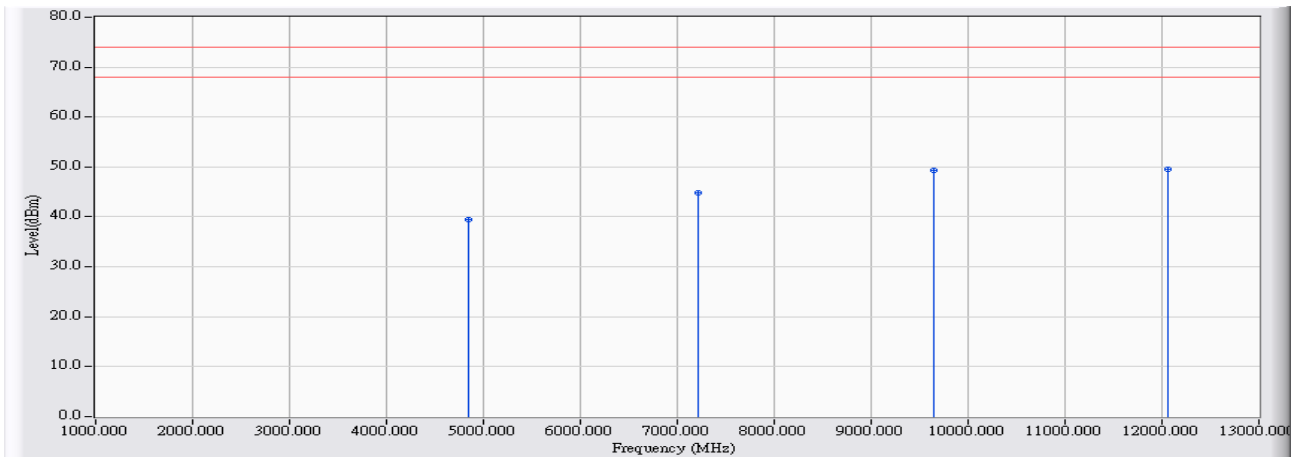


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4844.434	-0.099	40.234	40.135	-33.865	54.000	74.000	PEAK
2	7222.896	7.354	37.797	45.151	-28.849	54.000	74.000	PEAK
3	9641.736	10.969	37.711	48.680	-25.320	54.000	74.000	PEAK
4	* 12035.033	12.508	36.810	49.318	-24.682	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

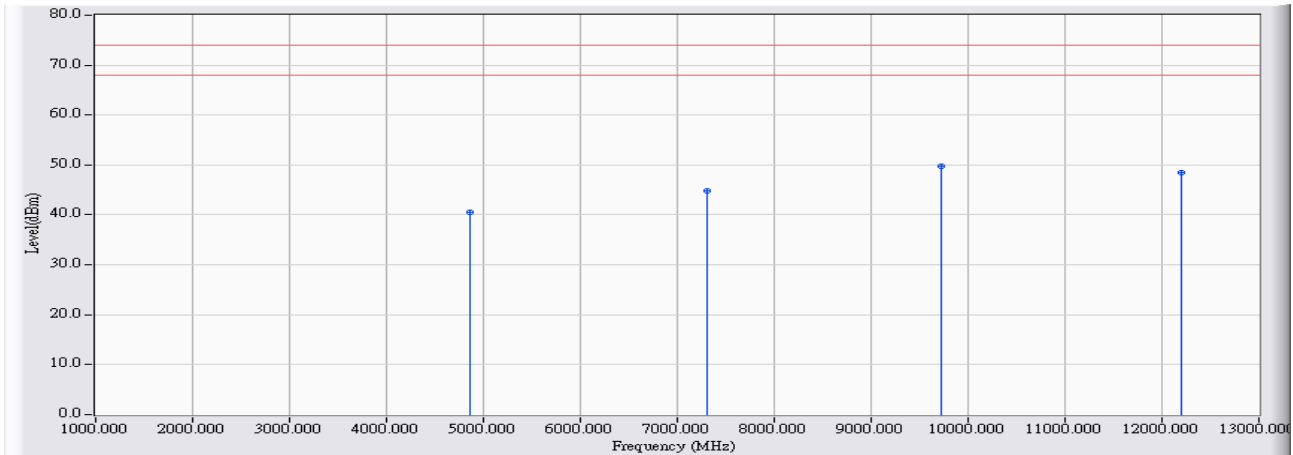


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4845.989	-0.094	39.652	39.558	-34.442	54.000	74.000	PEAK
2	7214.802	7.319	37.451	44.770	-29.230	54.000	74.000	PEAK
3	9639.529	10.954	38.397	49.351	-24.649	54.000	74.000	PEAK
4	* 12065.623	12.520	37.076	49.596	-24.404	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

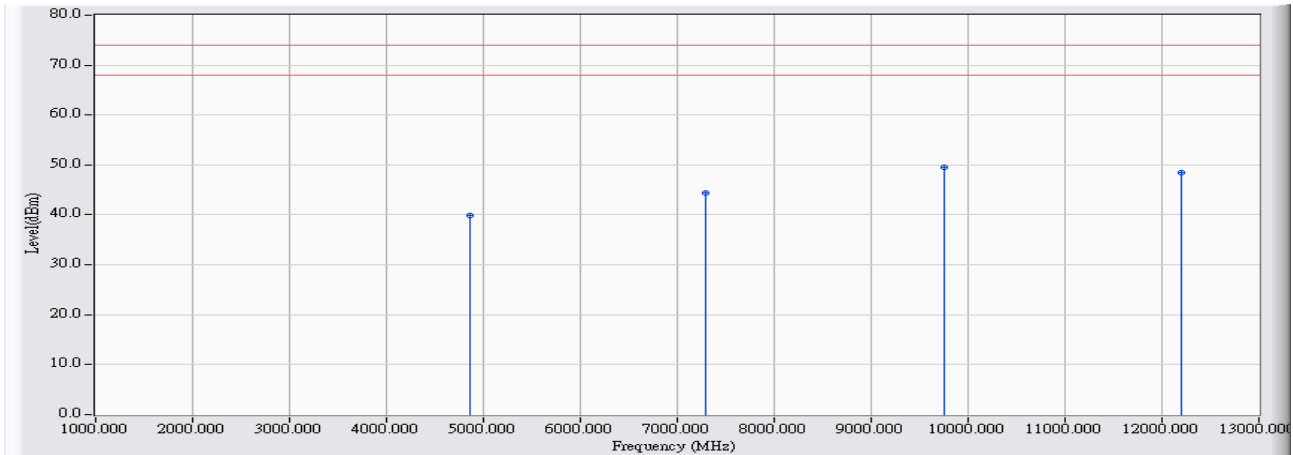


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4855.519	-0.064	40.571	40.507	-33.493	54.000	74.000	PEAK
2	7301.224	7.692	37.239	44.931	-29.069	54.000	74.000	PEAK
3	* 9725.357	11.518	38.151	49.669	-24.331	54.000	74.000	PEAK
4	12201.414	12.566	35.980	48.546	-25.454	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

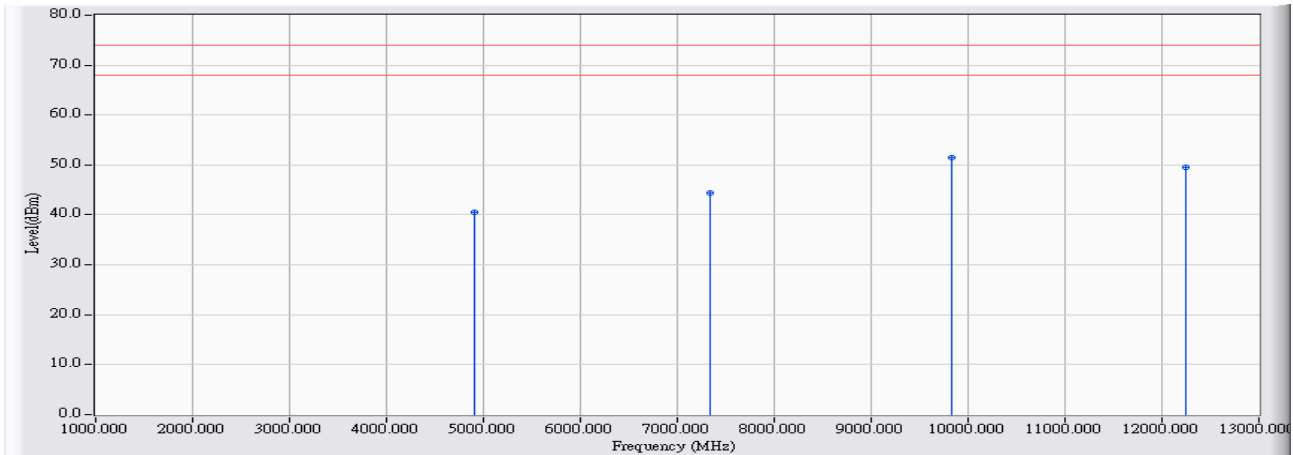


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4867.381	-0.026	39.832	39.806	-34.194	54.000	74.000	PEAK
2	7294.726	7.665	36.835	44.500	-29.500	54.000	74.000	PEAK
3	* 9750.357	11.682	37.795	49.477	-24.523	54.000	74.000	PEAK
4	12198.158	12.565	35.863	48.428	-25.572	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

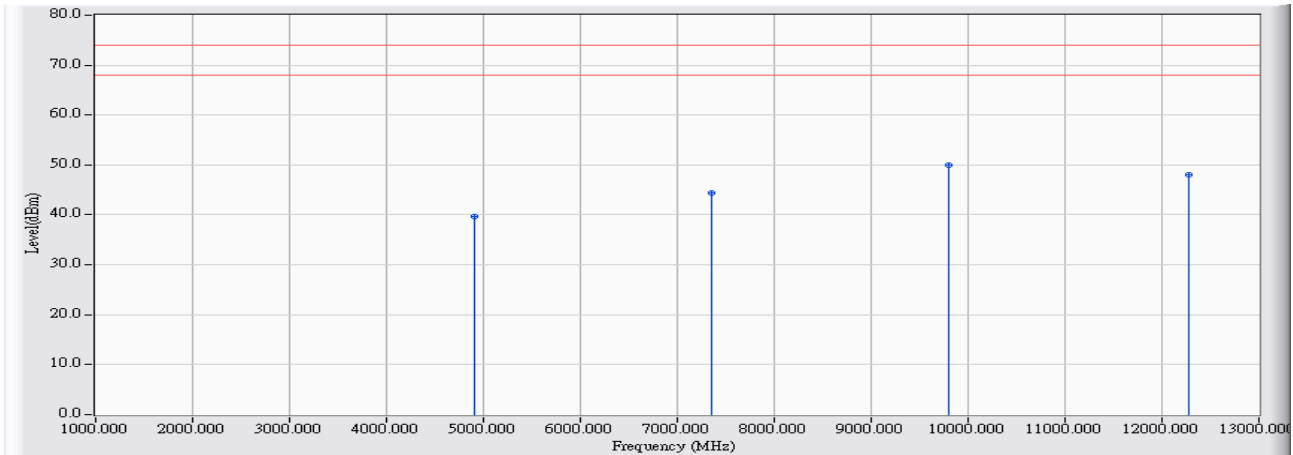


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4915.218	0.127	40.493	40.620	-33.380	54.000	74.000	PEAK
2	7345.512	7.884	36.447	44.331	-29.669	54.000	74.000	PEAK
3	* 9828.846	12.198	39.216	51.414	-22.586	54.000	74.000	PEAK
4	12251.030	12.584	36.949	49.533	-24.467	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

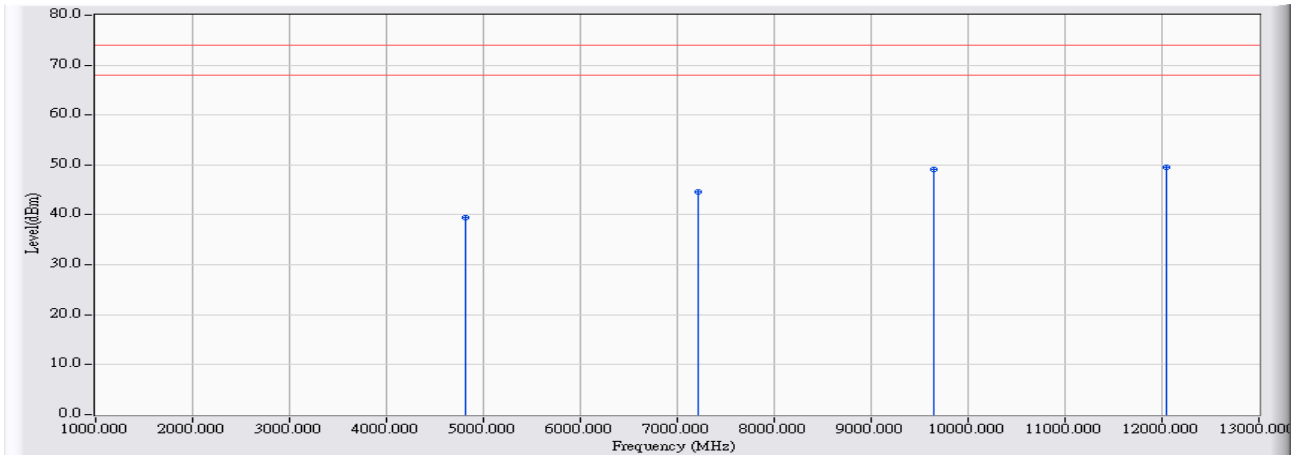


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4907.833	0.103	39.609	39.712	-34.288	54.000	74.000	PEAK
2	7359.918	7.947	36.501	44.448	-29.552	54.000	74.000	PEAK
3	* 9799.995	12.009	37.977	49.986	-24.014	54.000	74.000	PEAK
4	12277.702	12.593	35.519	48.112	-25.888	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

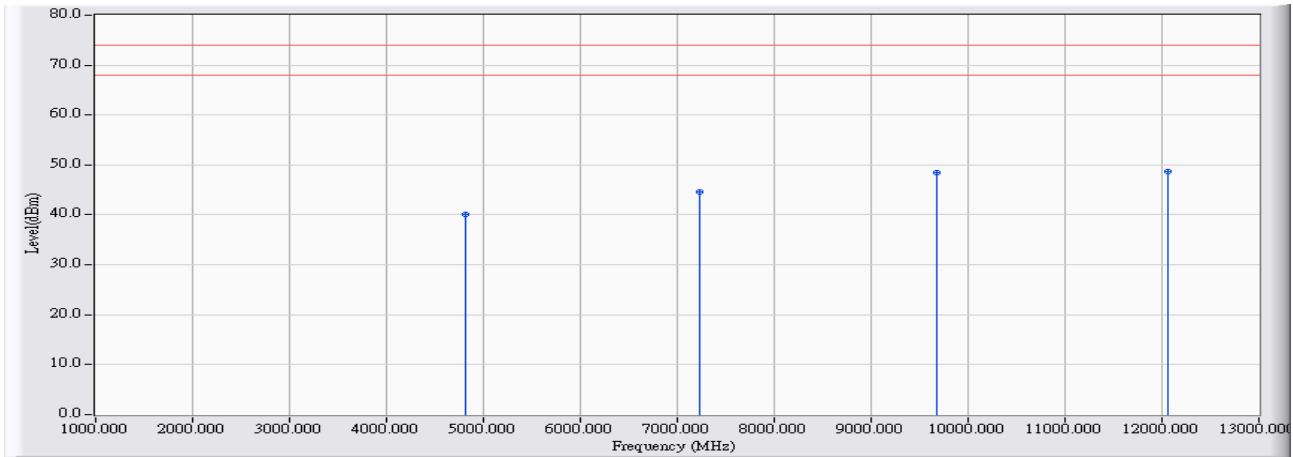


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4808.943	-0.214	39.591	39.377	-34.623	54.000	74.000	PEAK
2	7220.318	7.342	37.226	44.568	-29.432	54.000	74.000	PEAK
3	9648.632	11.014	38.042	49.056	-24.944	54.000	74.000	PEAK
4	* 12053.120	12.515	37.056	49.571	-24.429	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

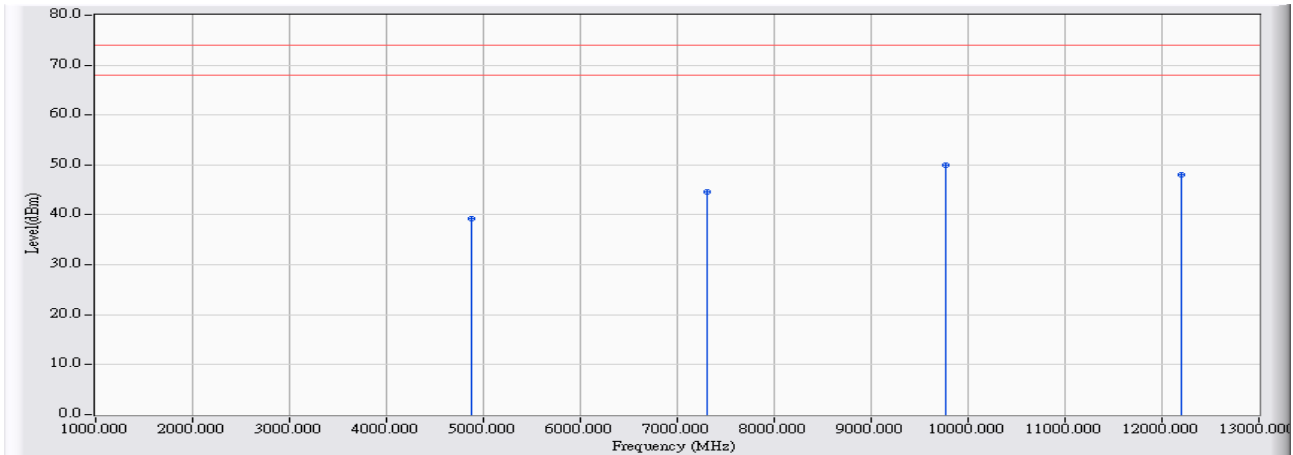


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4815.286	-0.192	40.372	40.180	-33.820	54.000	74.000	PEAK
2	7236.900	7.414	37.259	44.673	-29.327	54.000	74.000	PEAK
3	9672.828	11.174	37.329	48.503	-25.497	54.000	74.000	PEAK
4	* 12054.420	12.516	36.182	48.698	-25.302	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

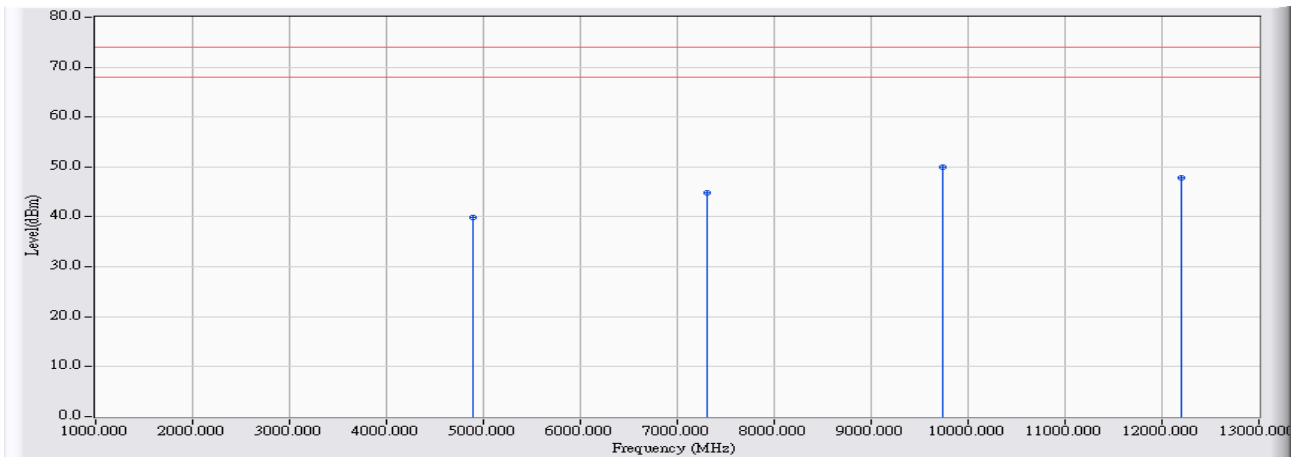


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4879.838	0.014	39.295	39.309	-34.691	54.000	74.000	PEAK
2	7300.906	7.691	36.991	44.682	-29.318	54.000	74.000	PEAK
3	* 9761.644	11.757	38.137	49.894	-24.106	54.000	74.000	PEAK
4	12198.245	12.565	35.443	48.008	-25.992	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

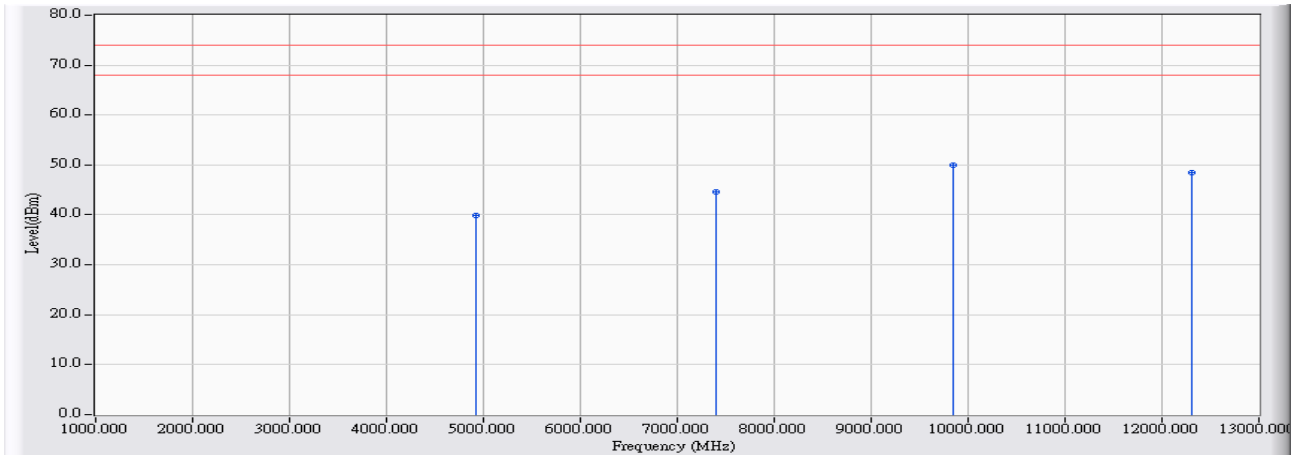


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4898.721	0.075	39.871	39.946	-34.054	54.000	74.000	PEAK
2	7308.623	7.724	37.063	44.787	-29.213	54.000	74.000	PEAK
3	* 9743.308	11.636	38.388	50.024	-23.976	54.000	74.000	PEAK
4	12207.354	12.569	35.266	47.835	-26.165	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:44
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

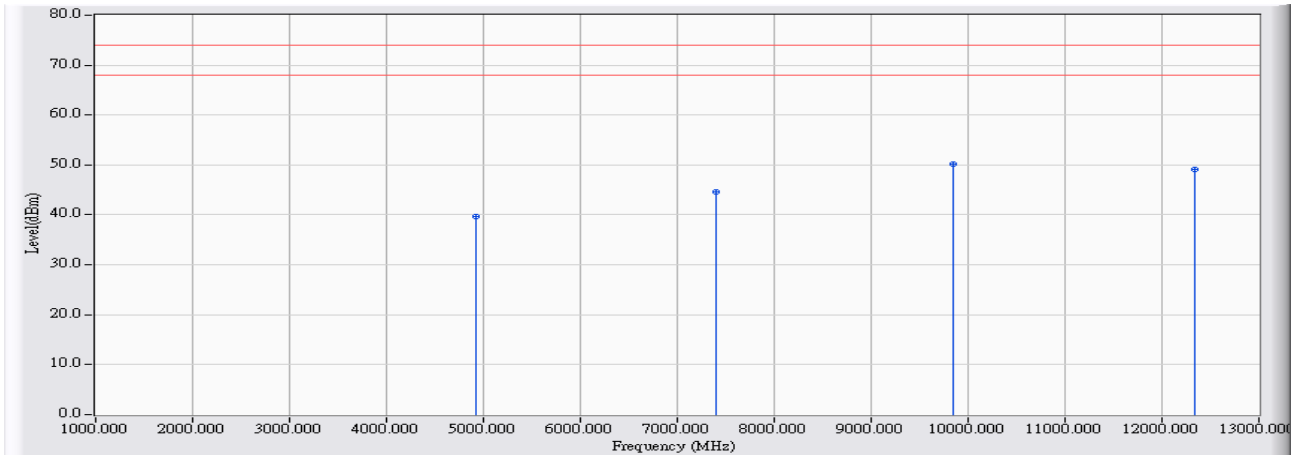


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4926.053	0.162	39.774	39.936	-34.064	54.000	74.000	PEAK
2	7395.432	8.100	36.496	44.596	-29.404	54.000	74.000	PEAK
3	* 9851.823	12.348	37.648	49.996	-24.004	54.000	74.000	PEAK
4	12303.297	12.601	35.800	48.401	-25.599	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/13 - 10:44
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

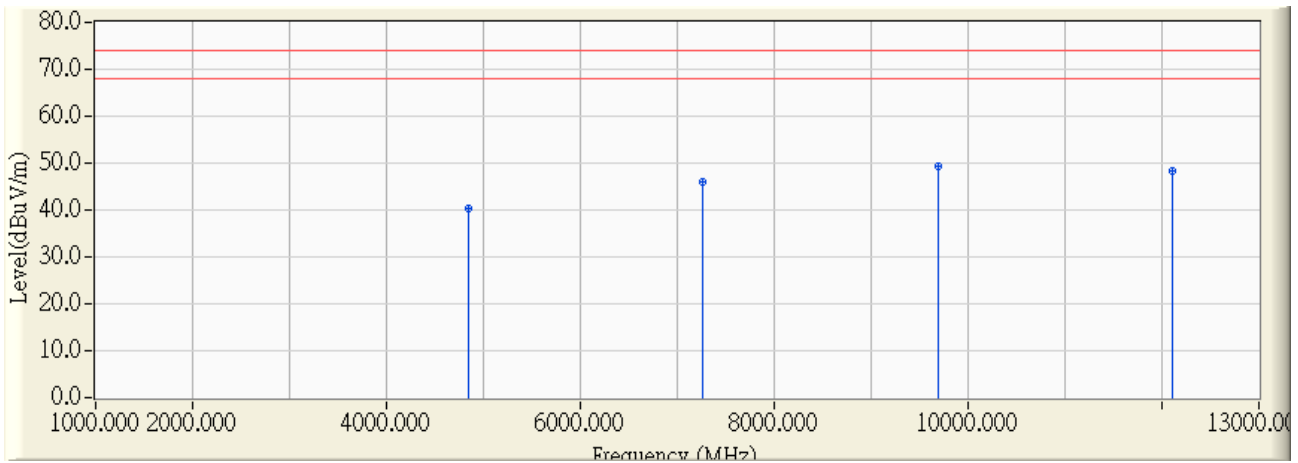


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4916.393	0.132	39.627	39.759	-34.241	54.000	74.000	PEAK
2	7394.637	8.097	36.537	44.634	-29.366	54.000	74.000	PEAK
3	* 9848.431	12.325	37.966	50.291	-23.709	54.000	74.000	PEAK
4	12331.222	12.611	36.480	49.091	-24.909	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 13:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

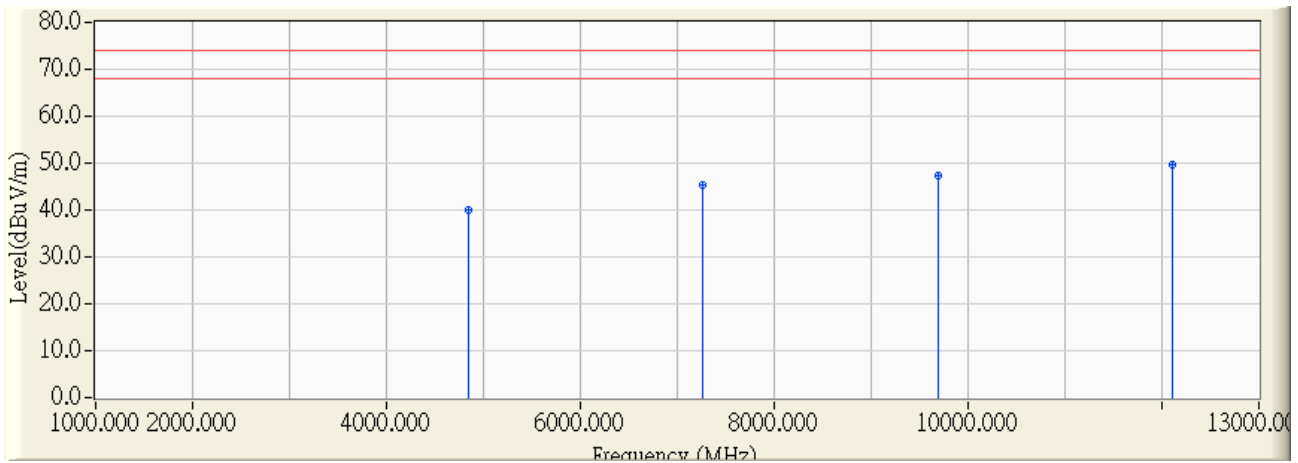


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4847.882	-0.740	40.949	40.209	-33.791	54.000	74.000	PEAK
2	7266.015	5.569	40.467	46.036	-27.964	54.000	74.000	PEAK
3	* 9687.492	9.517	39.912	49.429	-24.571	54.000	74.000	PEAK
4	12109.030	11.507	36.955	48.462	-25.538	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 13:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

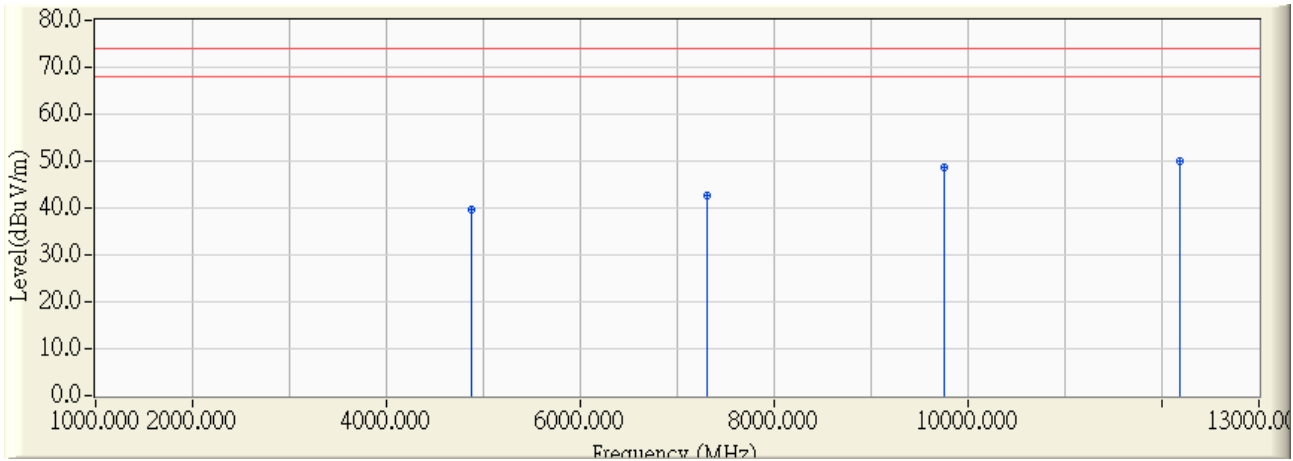


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4845.368	-0.747	40.730	39.983	-34.017	54.000	74.000	PEAK
2	7267.239	5.573	39.721	45.294	-28.706	54.000	74.000	PEAK
3	9689.135	9.529	37.947	47.476	-26.524	54.000	74.000	PEAK
4	* 12110.252	11.508	38.145	49.653	-24.347	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 13:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

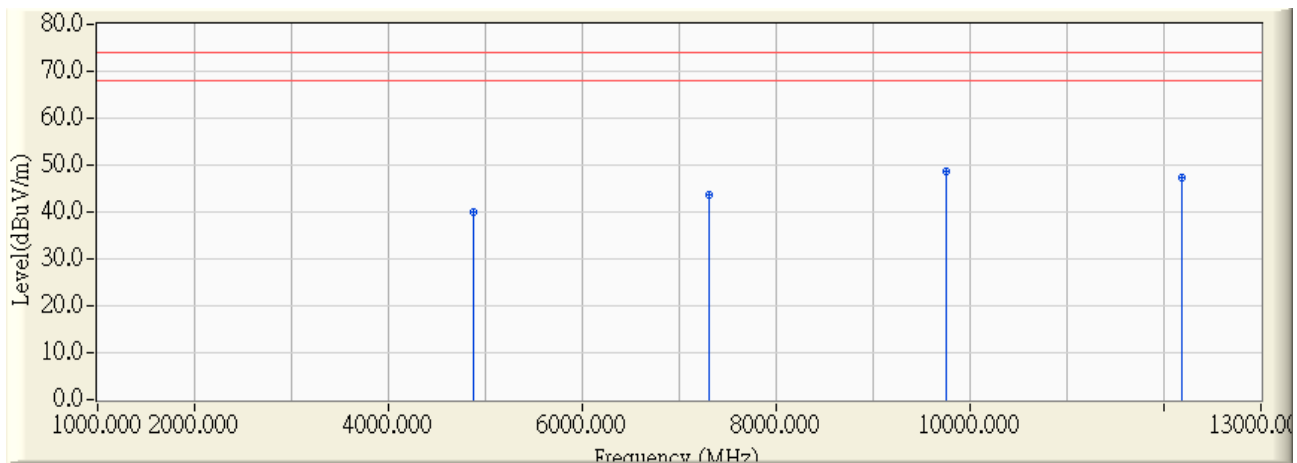


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4873.158	-0.673	40.262	39.589	-34.411	54.000	74.000	PEAK
2	7310.905	5.678	37.122	42.800	-31.200	54.000	74.000	PEAK
3	9747.812	9.954	38.668	48.622	-25.378	54.000	74.000	PEAK
4	* 12184.148	11.481	38.374	49.855	-24.145	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 13:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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_CH06

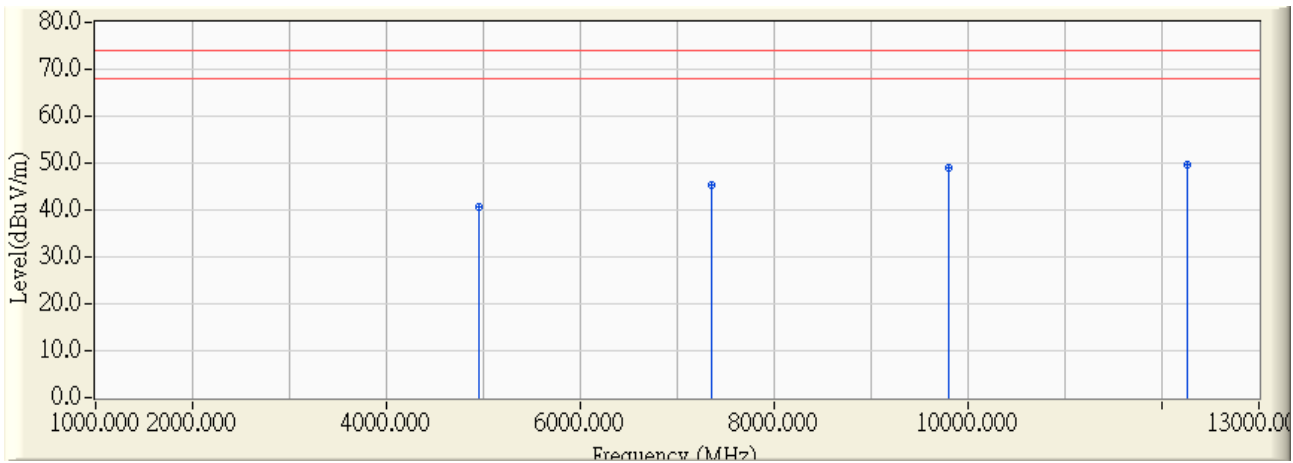


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4873.067	-0.673	40.545	39.872	-34.128	54.000	74.000	PEAK
2	7310.208	5.675	37.880	43.555	-30.445	54.000	74.000	PEAK
3	* 9747.917	9.955	38.657	48.612	-25.388	54.000	74.000	PEAK
4	12185.028	11.481	35.894	47.375	-26.625	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 13:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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

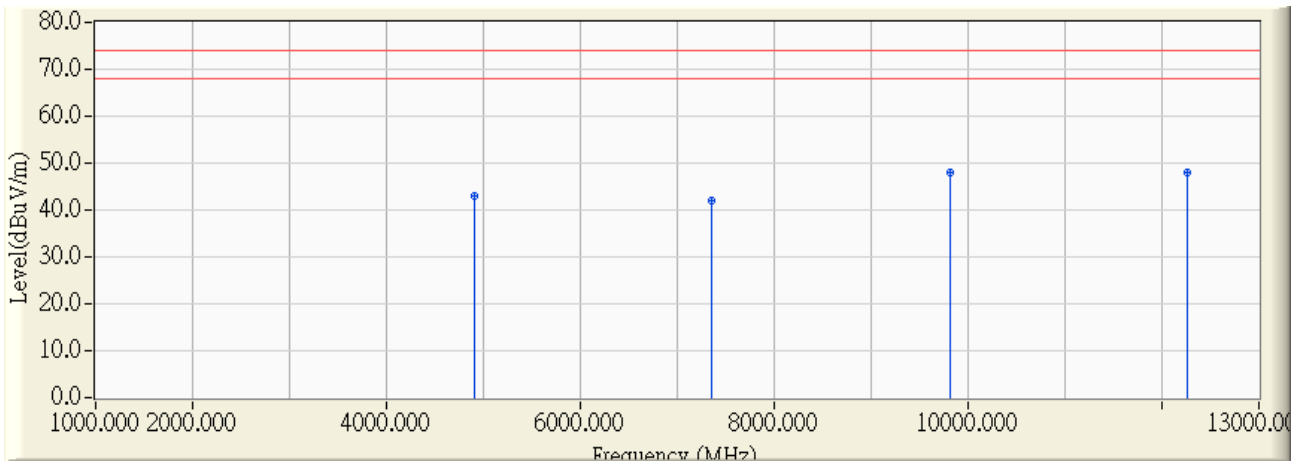


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4952.014	-0.467	40.968	40.501	-33.499	54.000	74.000	PEAK
2	7354.052	5.781	39.688	45.469	-28.531	54.000	74.000	PEAK
3	9807.309	10.386	38.522	48.908	-25.092	54.000	74.000	PEAK
4	* 12258.018	11.456	38.331	49.787	-24.213	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/06/15 - 13:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB3_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)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4904.034	-0.593	43.595	43.002	-30.998	54.000	74.000	PEAK
2	7355.014	5.784	36.091	41.875	-32.125	54.000	74.000	PEAK
3	* 9808.019	10.391	37.688	48.079	-25.921	54.000	74.000	PEAK
4	12259.902	11.455	36.581	48.036	-25.964	54.000	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.
7. The Emission above 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipment is used during the test:

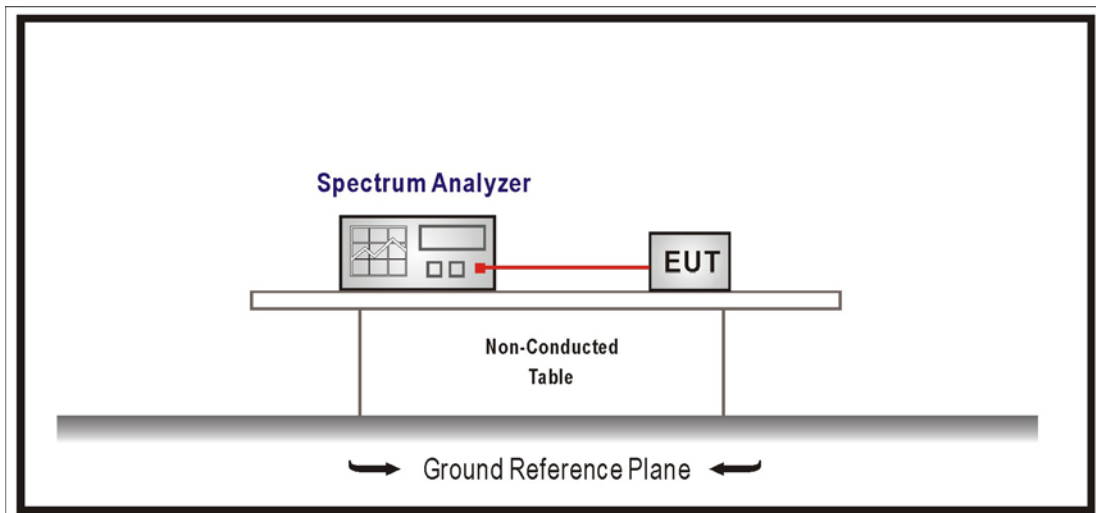
RF antenna conducted test / SR7

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.

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. 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 Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

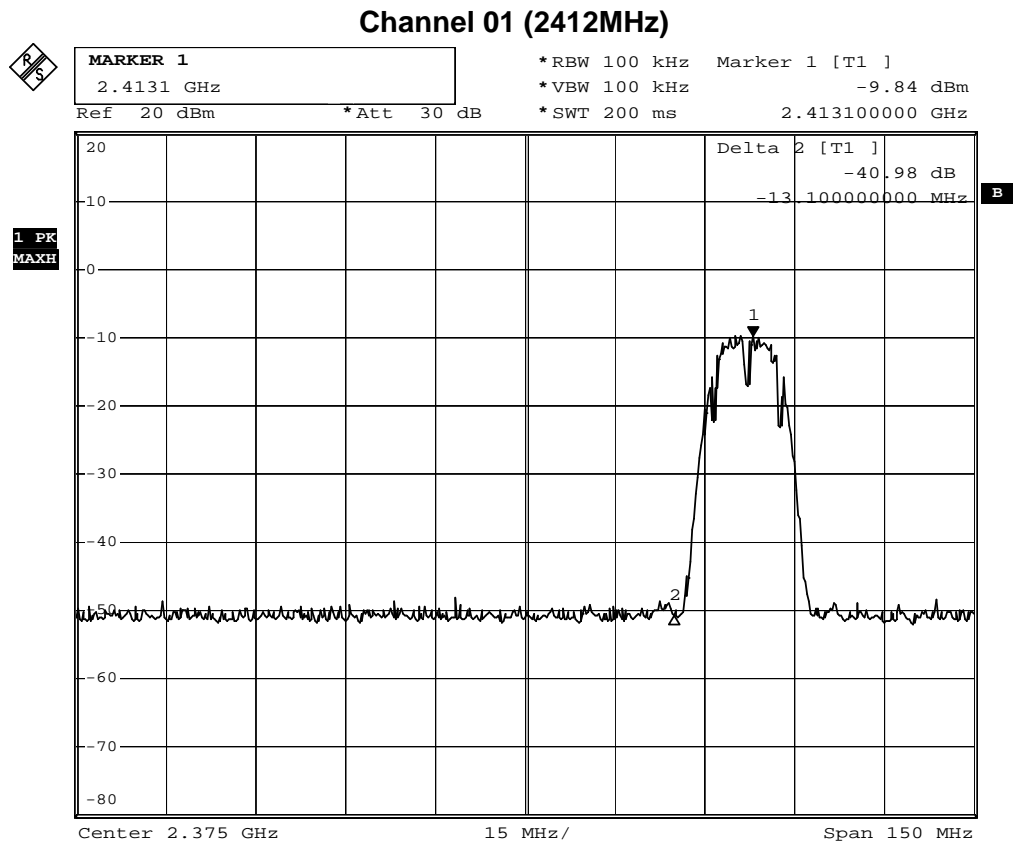
5.6. Uncertainty

Conducted is defined as $\pm 1.27\text{dB}$

5.7. Test Result

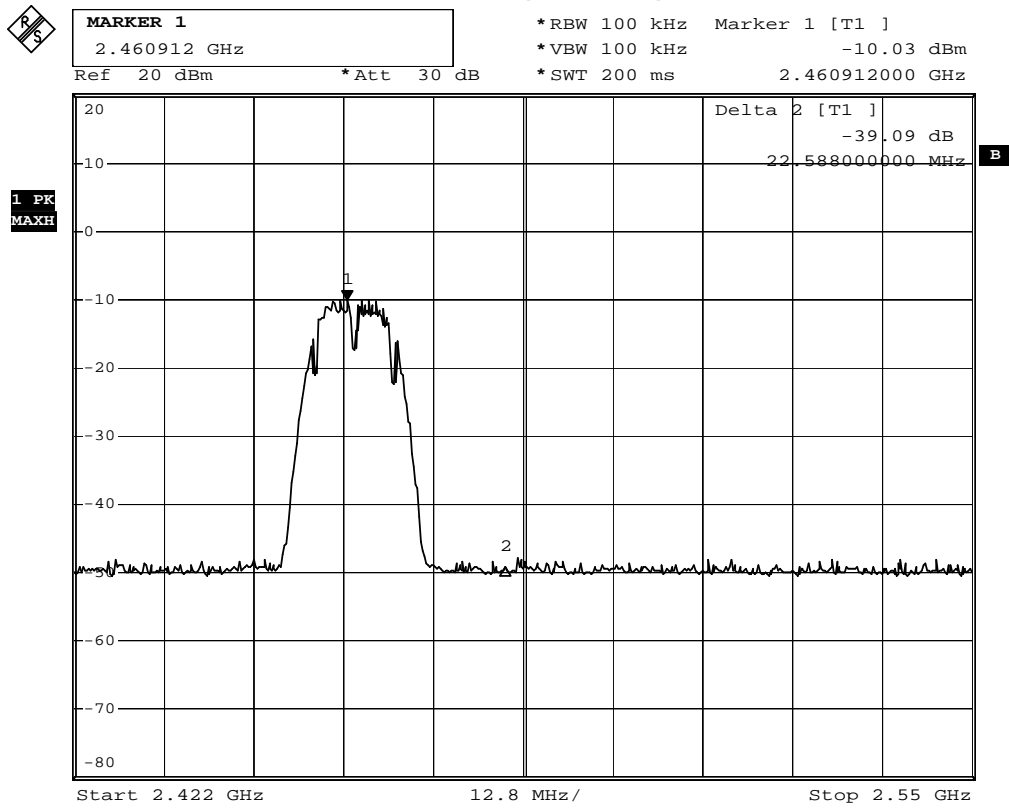
Product	VDSL2 Router with WLAN/VoIP		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2012/06/05	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.98	≥ 20	Pass
11	2462	39.09	≥ 20	Pass



Comment: A:\2
 Date: 5.JUN.2012 16:58:14

Channel 11 (2462MHz)

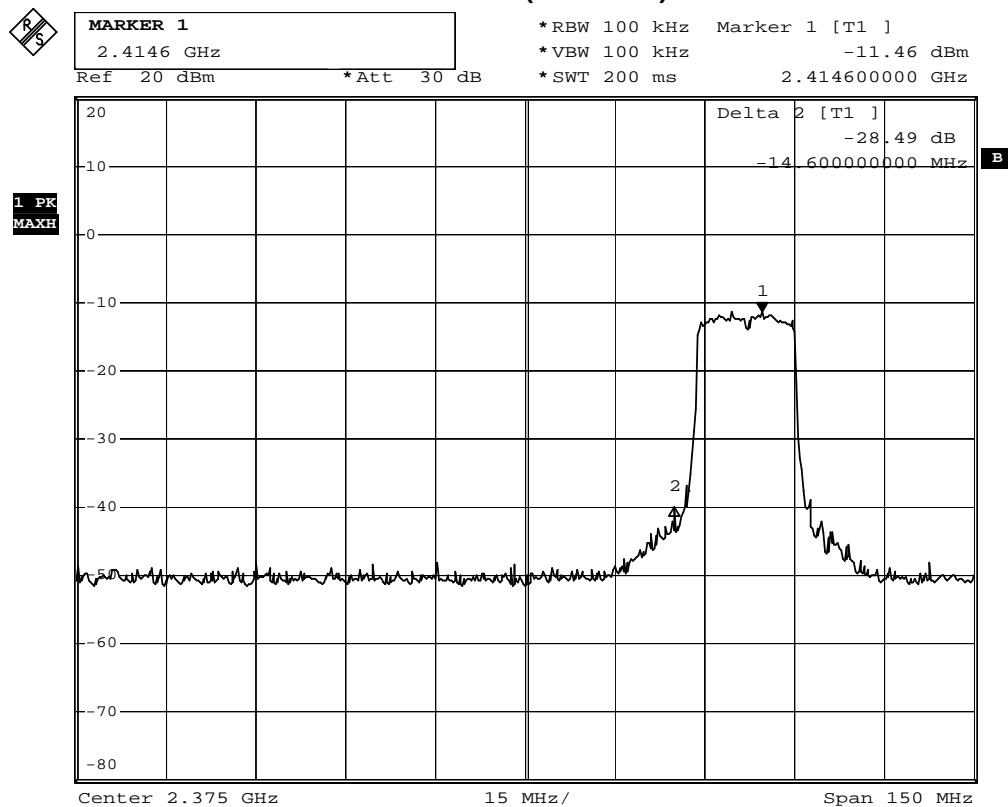


Comment: A:\2
 Date: 5.JUN.2012 17:15:53

Product	VDSL2 Router with WLAN/VoIP		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2012/06/05	Test Site	SR7

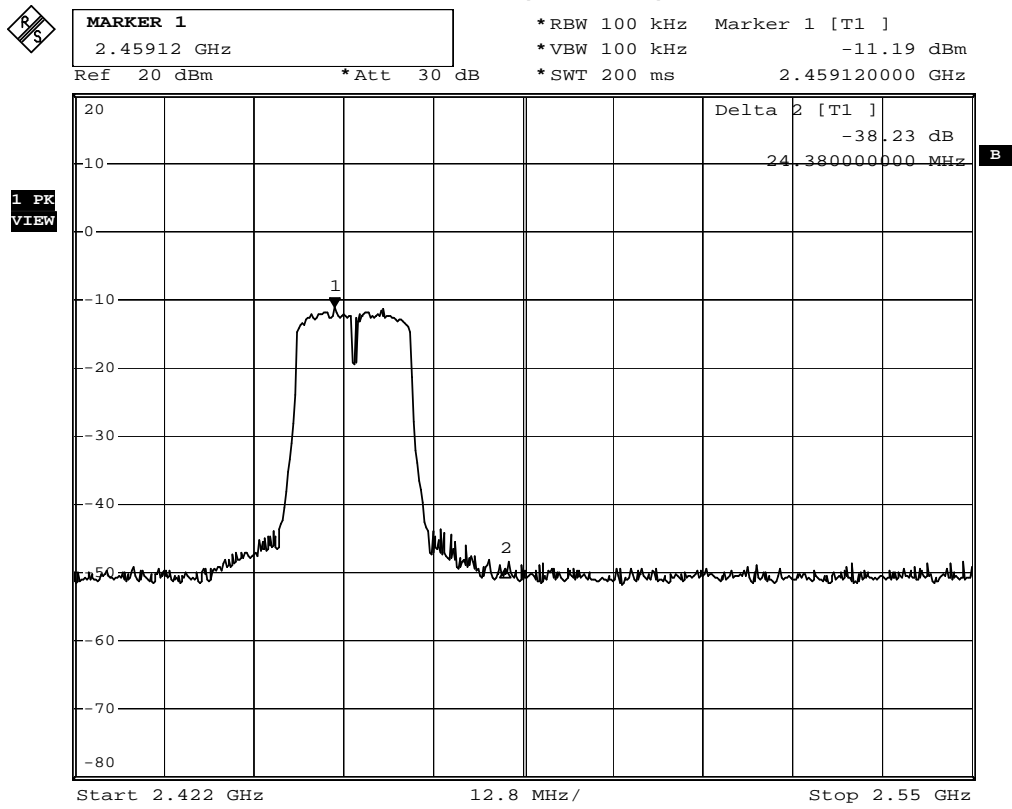
IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	28.49	≥ 20	Pass
11	2462	38.23	≥ 20	Pass

Channel 01 (2412MHz)



Comment: A:\2
 Date: 5.JUN.2012 16:57:37

Channel 11 (2462MHz)

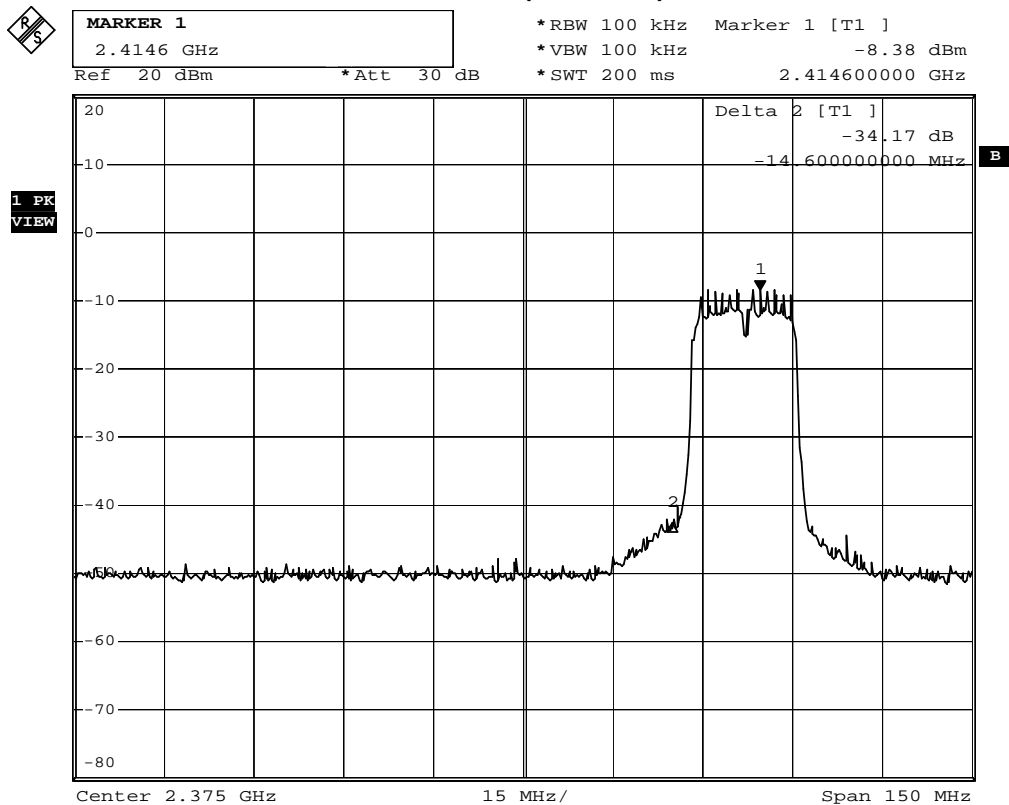


Comment: A:\2
 Date: 5.JUN.2012 17:14:50

Product	VDSL2 Router with WLAN/VoIP		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2012/06/05	Test Site	SR7

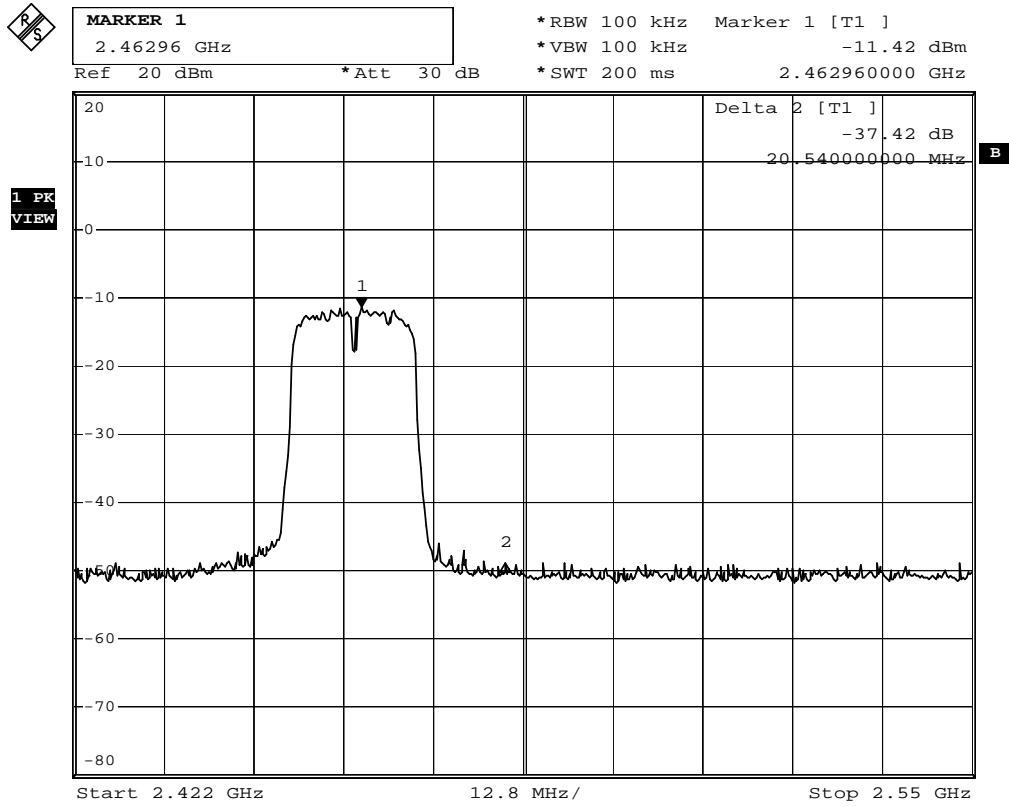
IEEE 802.11n (20MHz) ANT 0				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	34.17	≥ 20	Pass
11	2462	37.42	≥ 20	Pass

Channel 01 (2412MHz)



Comment: A:\2
 Date: 5.JUN.2012 16:56:37

Channel 11 (2462MHz)

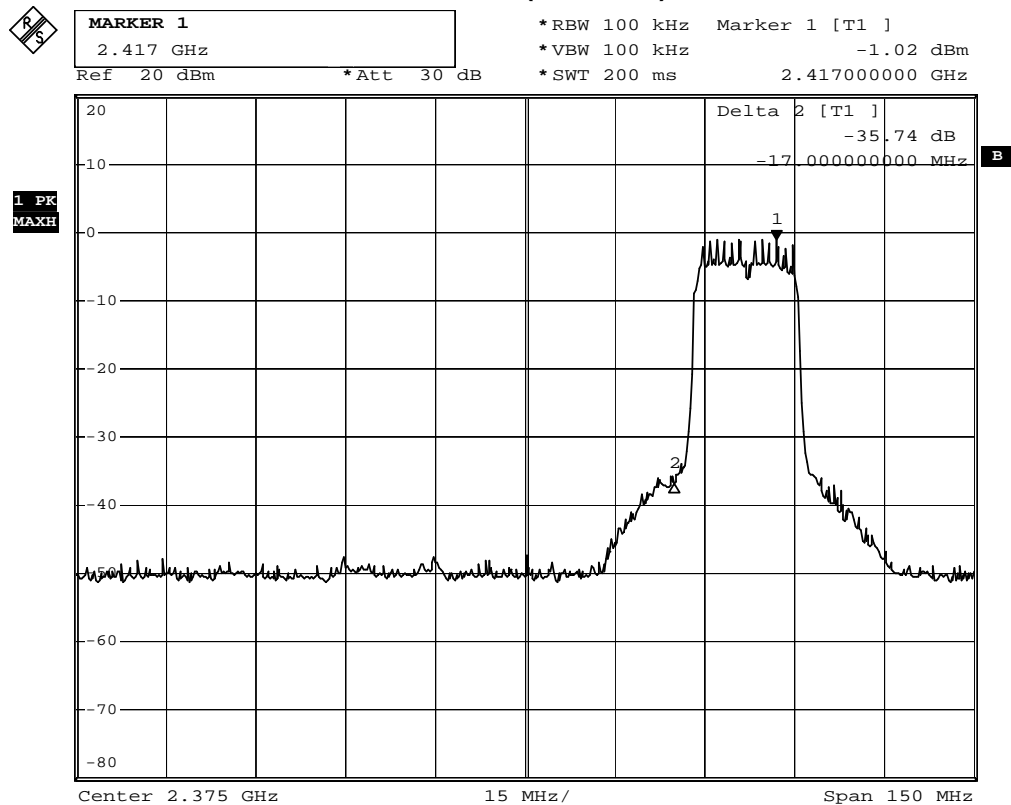


Comment: A:\2
Date: 5.JUN.2012 17:13:47

Product	VDSL2 Router with WLAN/VoIP		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2012/06/05	Test Site	SR7

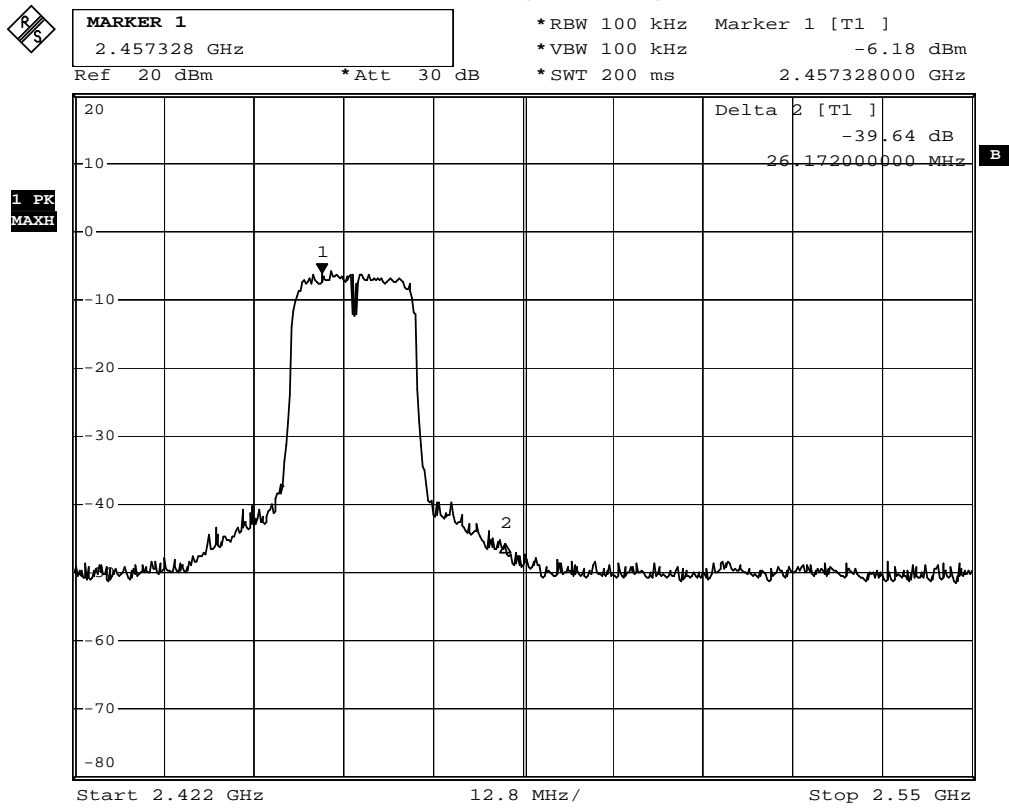
IEEE 802.11n (20MHz) ANT 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	35.74	≥ 20	Pass
11	2462	39.64	≥ 20	Pass

Channel 01 (2412MHz)



Comment: A:\2
 Date: 5.JUN.2012 17:05:17

Channel 11 (2462MHz)

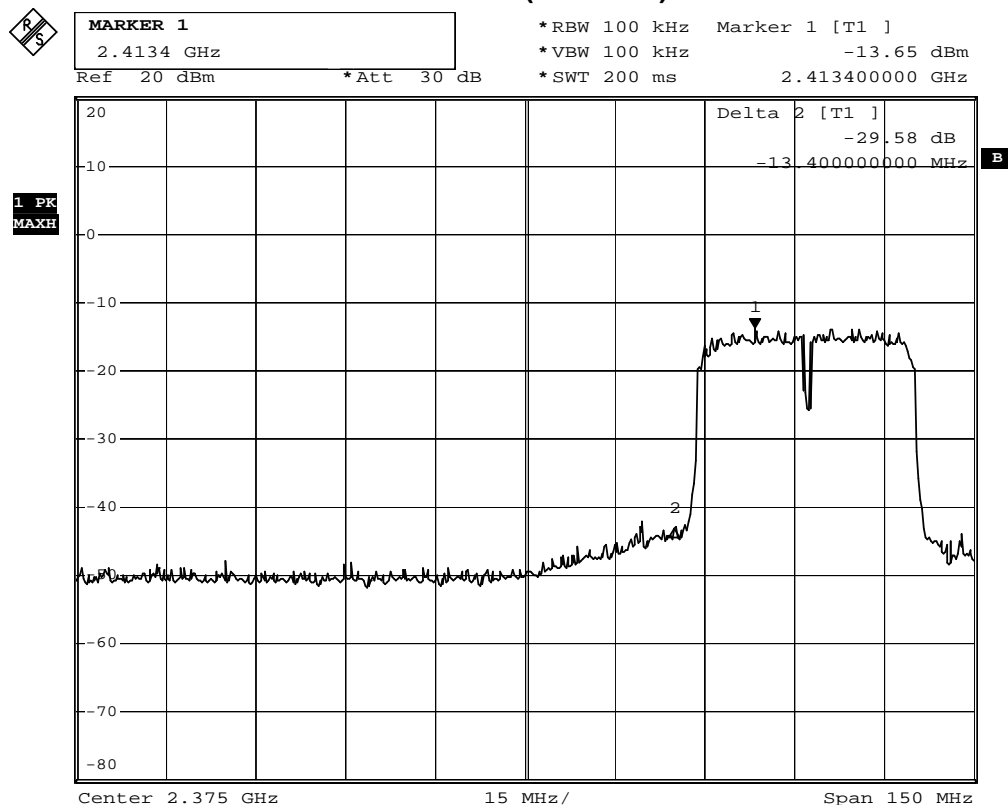


Comment: A:\2
 Date: 5.JUN.2012 17:08:24

Product	VDSL2 Router with WLAN/VoIP		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2012/06/05	Test Site	SR7

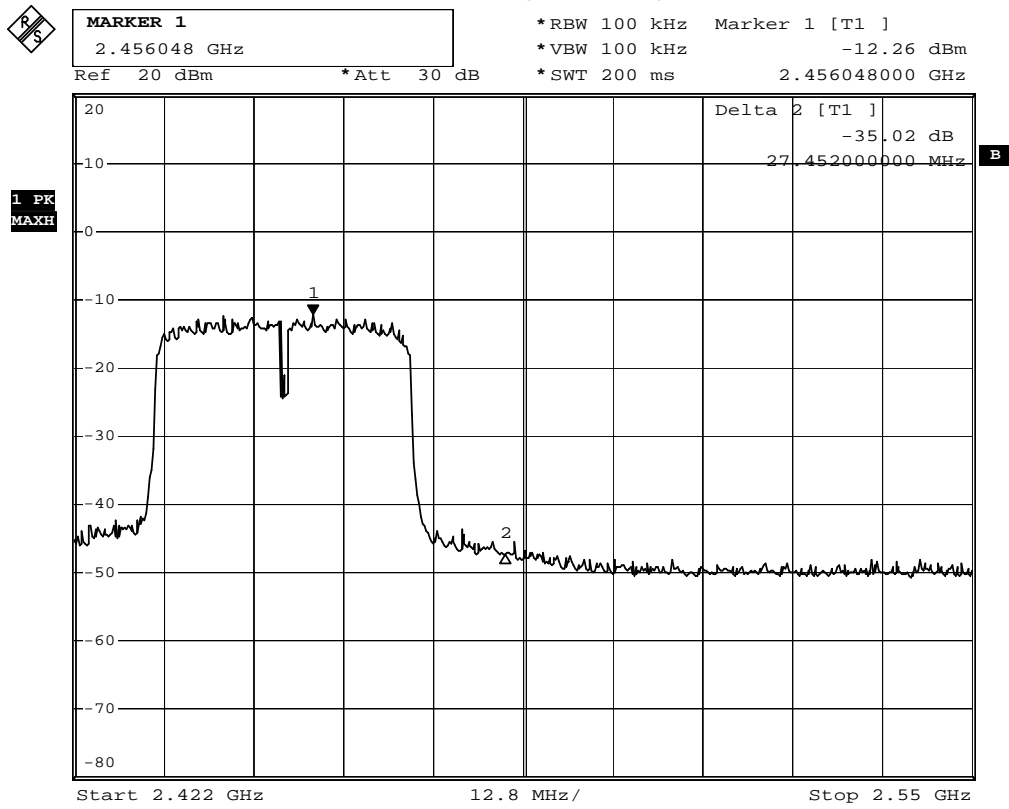
IEEE 802.11n (40MHz) ANT 0				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	29.58	≥ 20	Pass
9	2452	35.02	≥ 20	Pass

Channel 03 (2422MHz)



Comment: A:\2
 Date: 5.JUN.2012 16:59:12

Channel 09 (2452MHz)

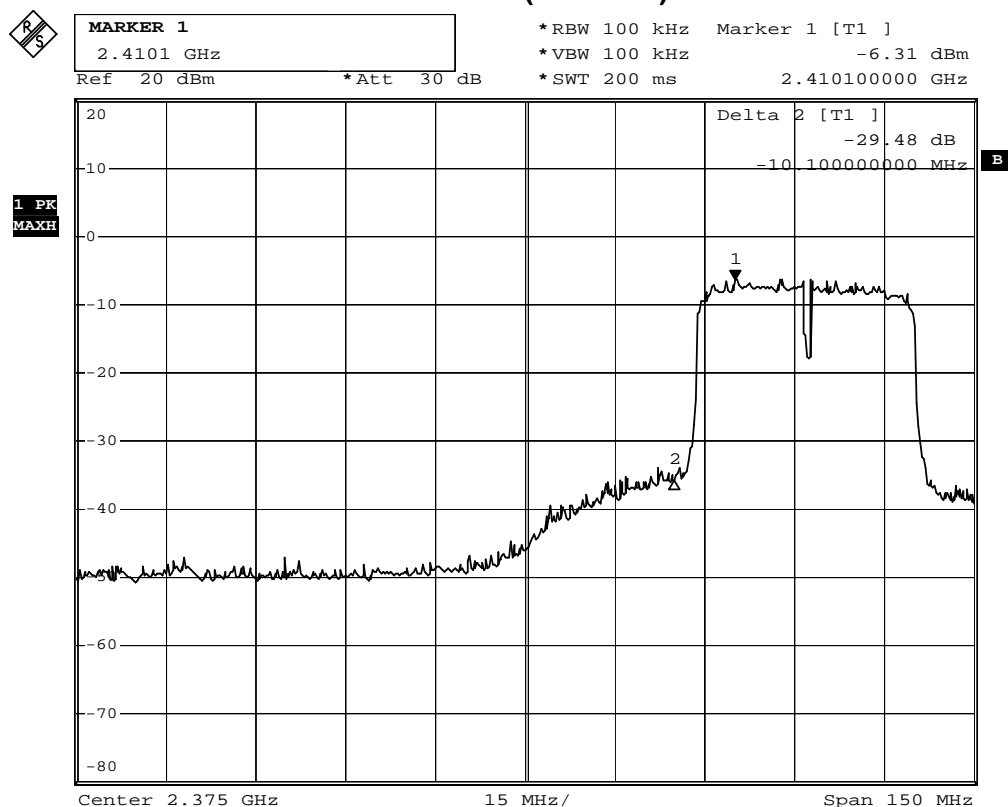


Comment: A:\2
 Date: 5.JUN.2012 17:11:53

Product	VDSL2 Router with WLAN/VoIP		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2012/06/05	Test Site	SR7

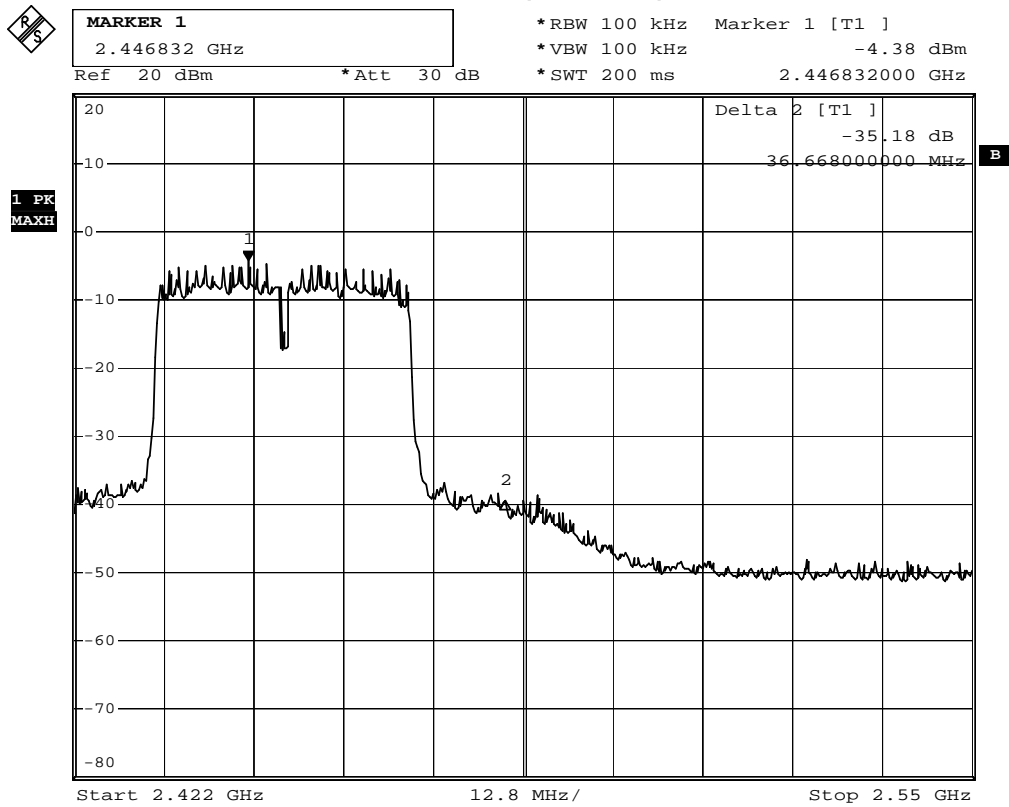
IEEE 802.11n (40MHz) ANT 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	29.48	≥ 20	Pass
9	2452	35.18	≥ 20	Pass

Channel 03 (2422MHz)



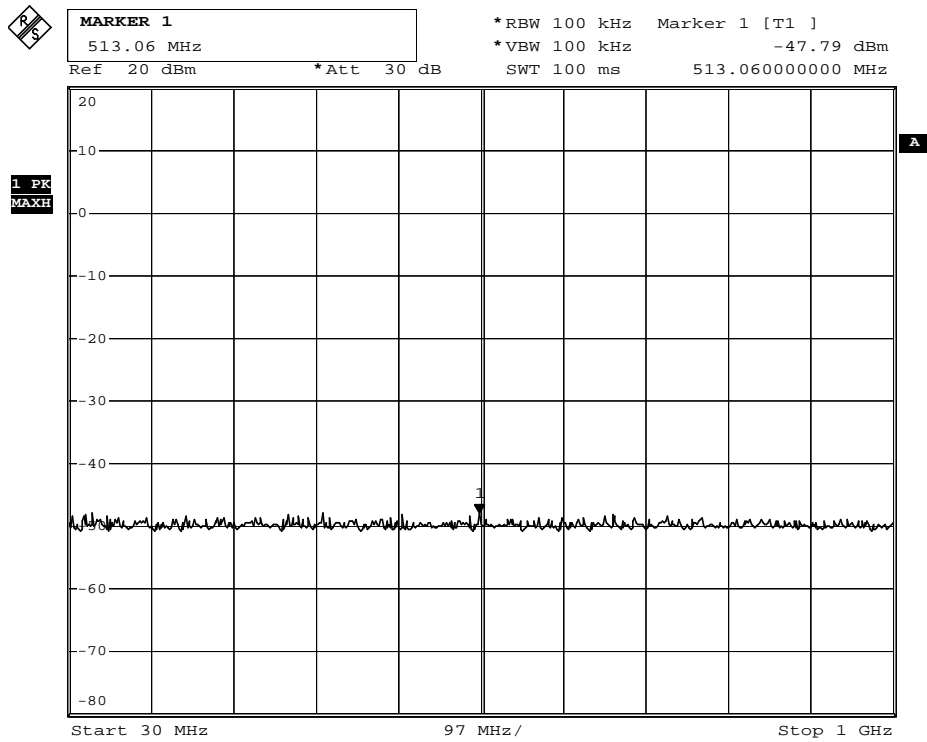
Comment: A:\2
 Date: 5.JUN.2012 17:04:26

Channel 09 (2452MHz)



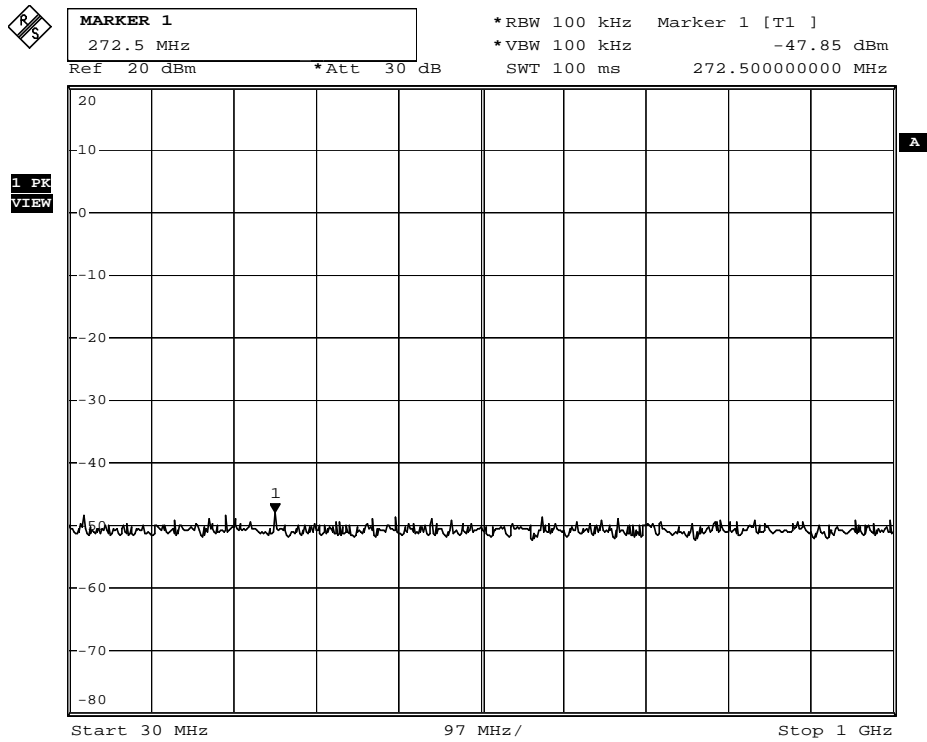
Comment: A:\2
 Date: 5.JUN.2012 17:07:45

2412MHz (30MHz~1GHz)-802.11b



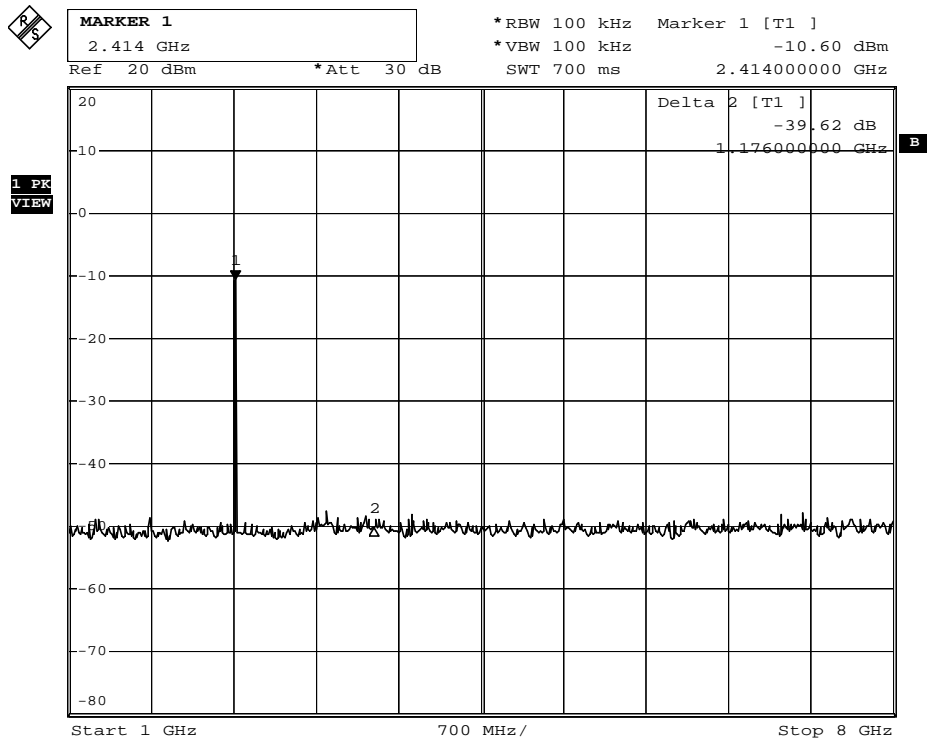
Comment: A:\2
 Date: 5.JUN.2012 16:13:39

2462MHz (30MHz~1GHz)-802.11b



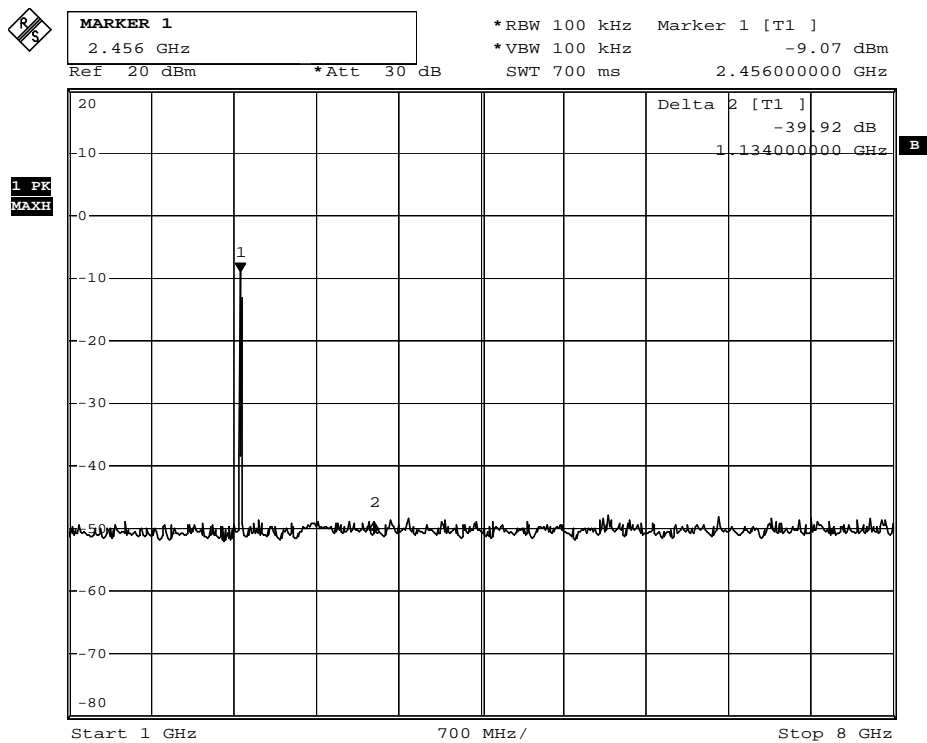
Comment: A:\2
 Date: 5.JUN.2012 16:14:16

2412MHz (1GHz~8GHz)-802.11b



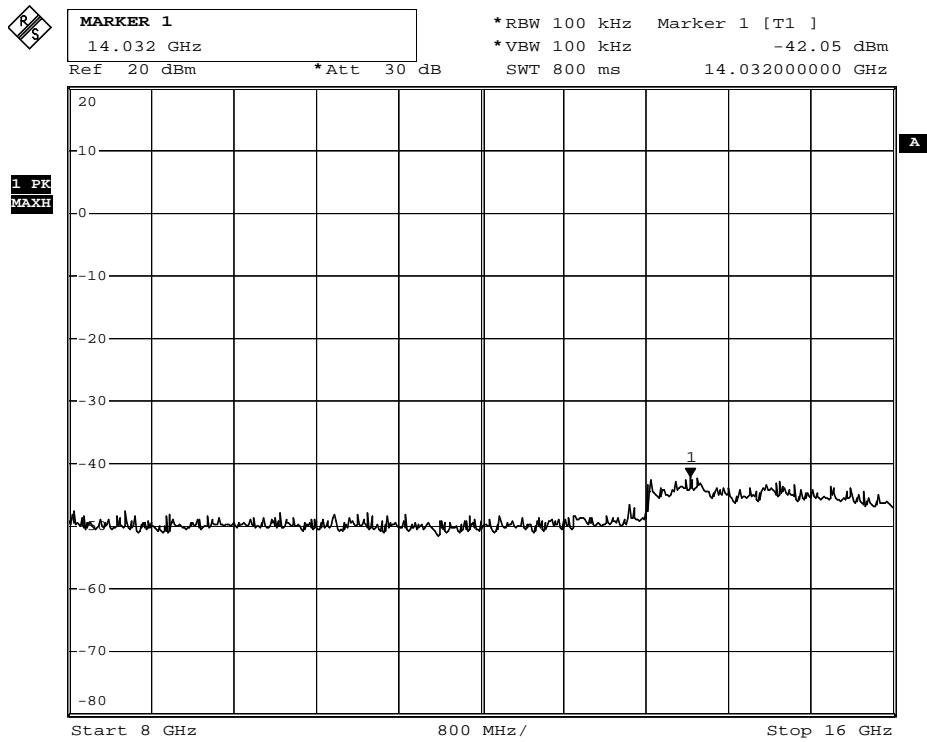
Comment: A:\2
 Date: 5.JUN.2012 17:28:03

2462MHz (1GHz~8GHz)-802.11b



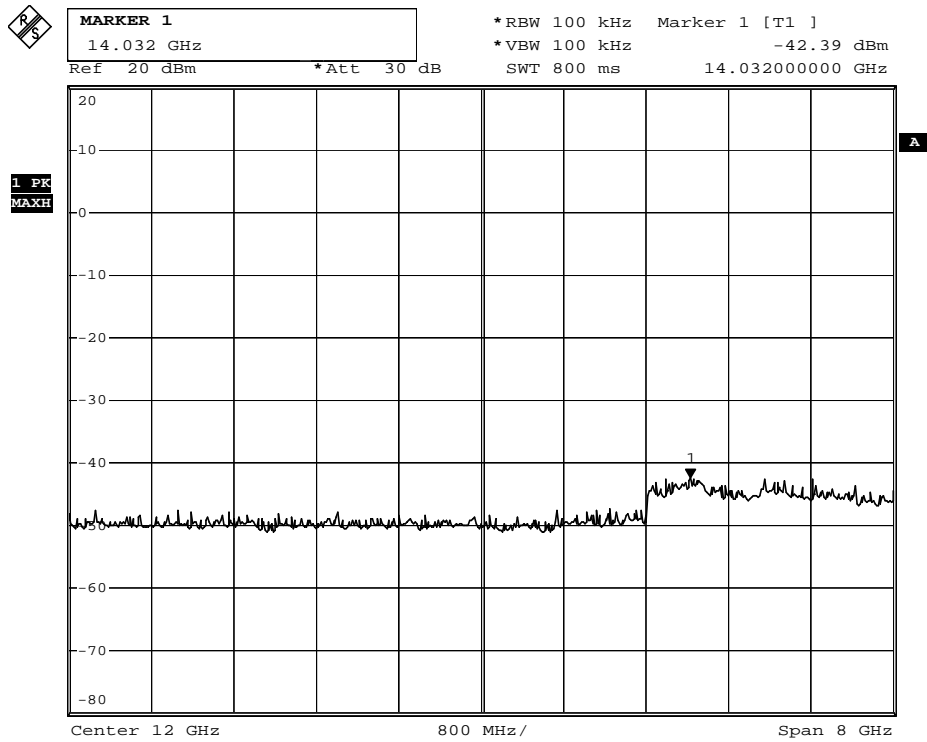
Comment: A:\2
 Date: 5.JUN.2012 17:28:56

2412MHz (8GHz~16GHz)-802.11b



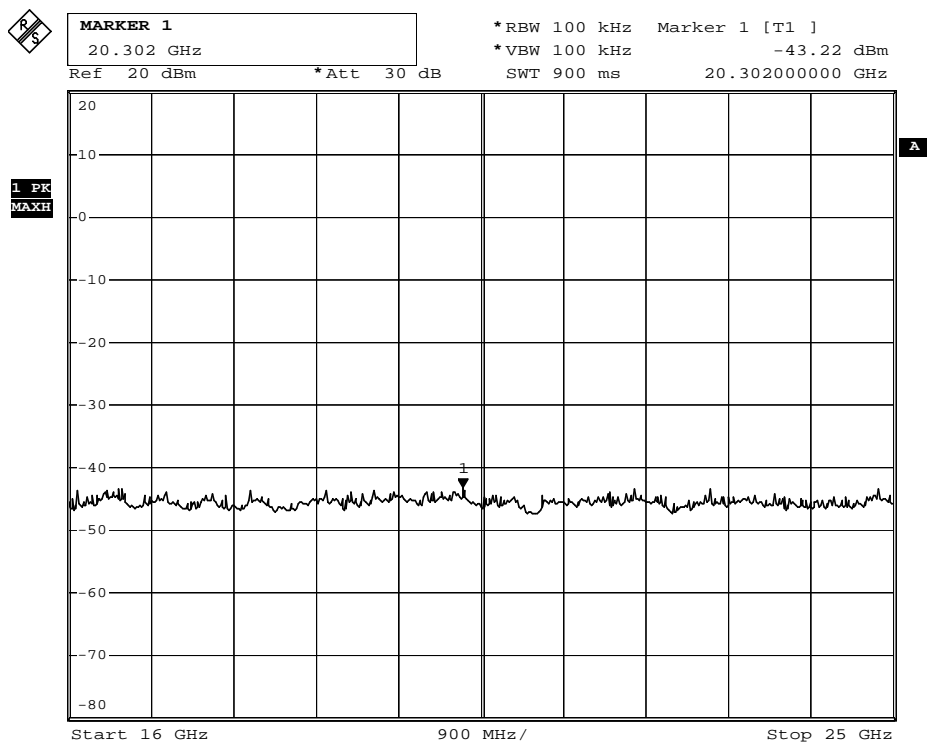
Comment: A:\2
Date: 5.JUN.2012 16:31:46

2462MHz (8GHz~16GHz)-802.11b



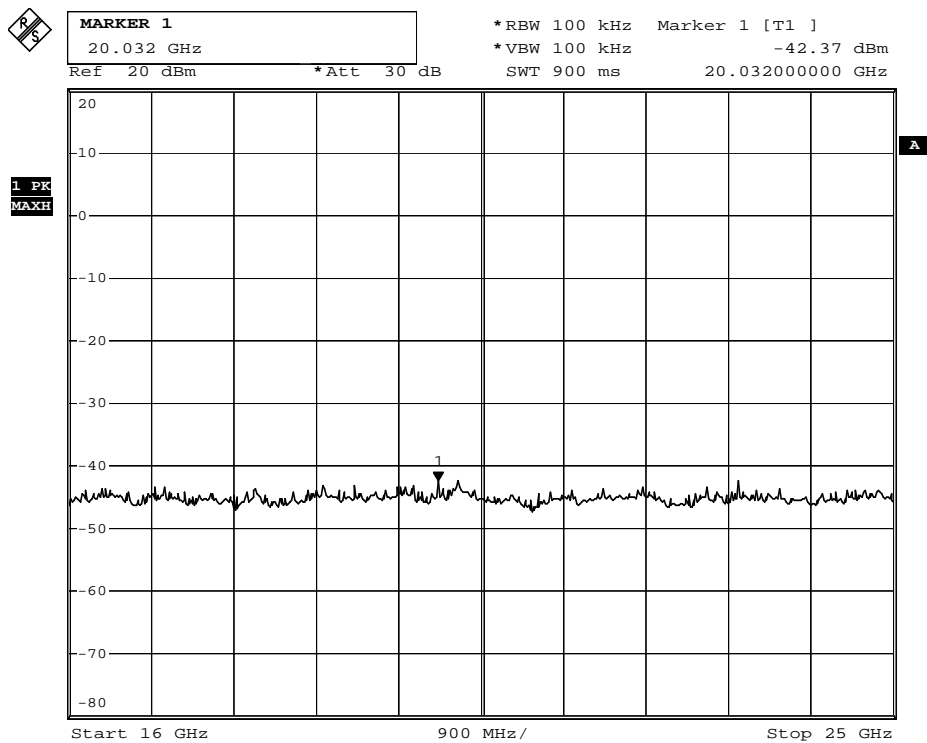
Comment: A:\2
Date: 5.JUN.2012 16:32:18

2412MHz (16GHz~25GHz)-802.11b



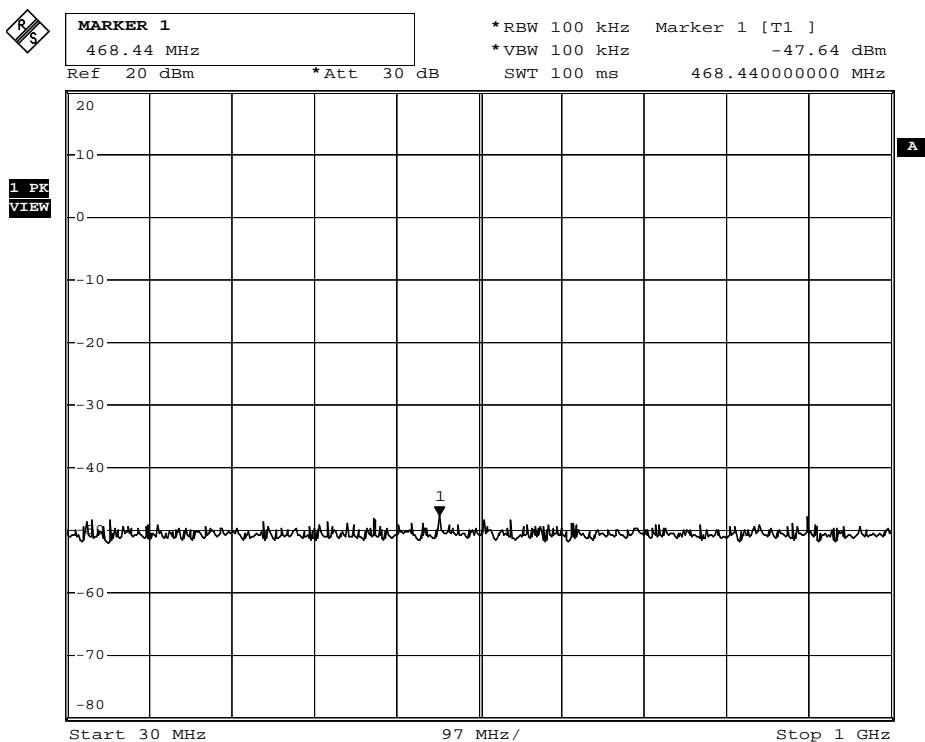
Comment: A:\2
 Date: 5.JUN.2012 16:34:13

2462MHz (16GHz~25GHz)-802.11b



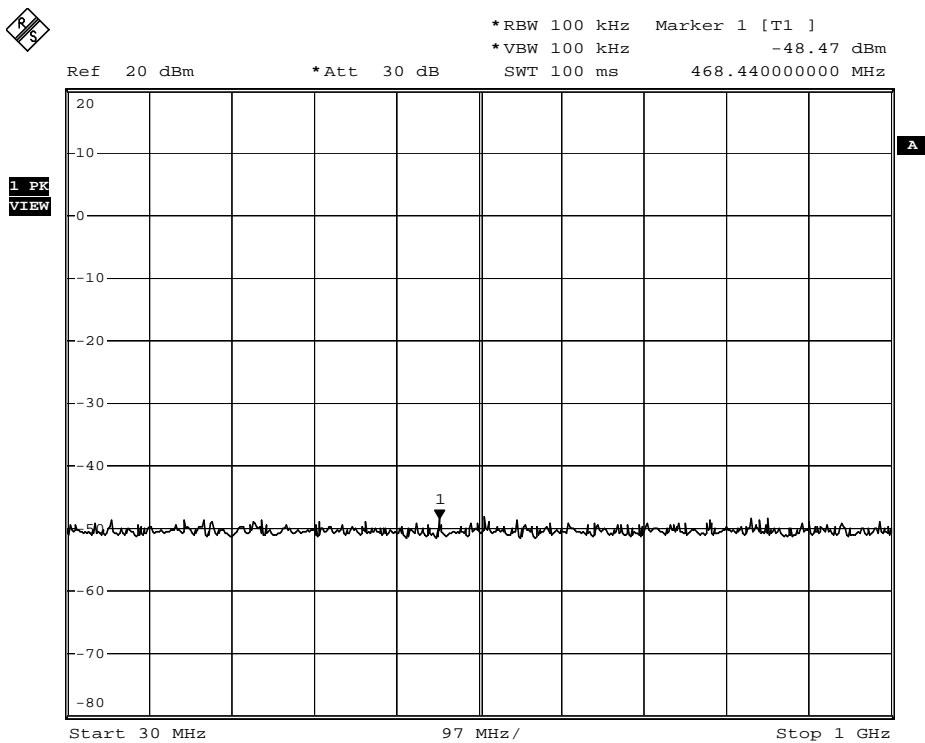
Comment: A:\2
 Date: 5.JUN.2012 16:33:46

2412MHz (30MHz~1GHz)-802.11g



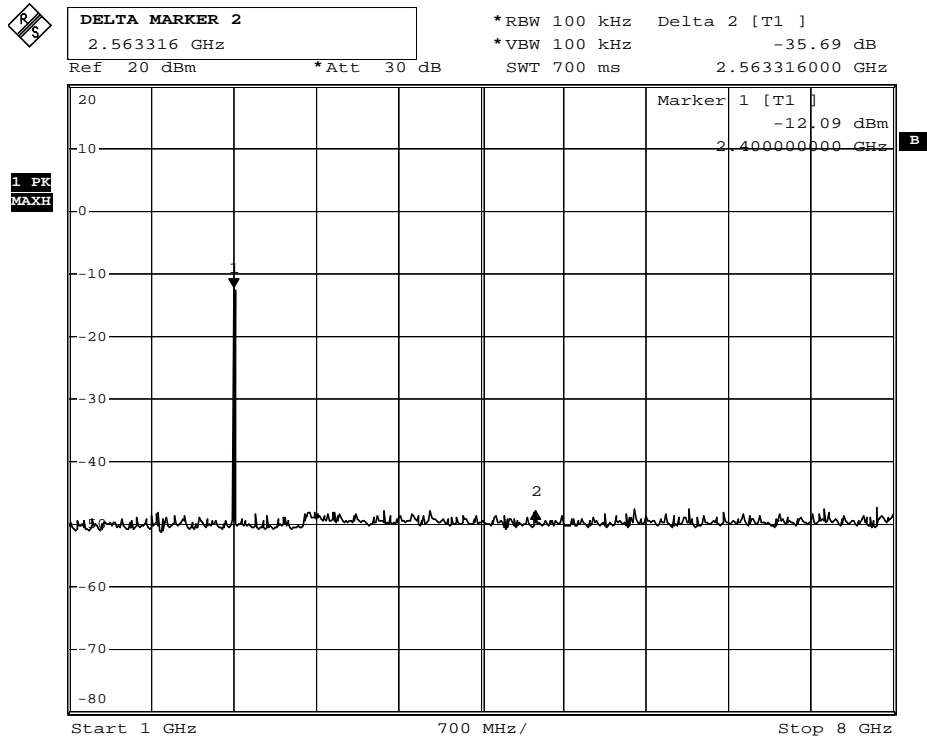
Comment: A:\2
 Date: 5.JUN.2012 16:14:40

2462MHz (30MHz~1GHz)-802.11g



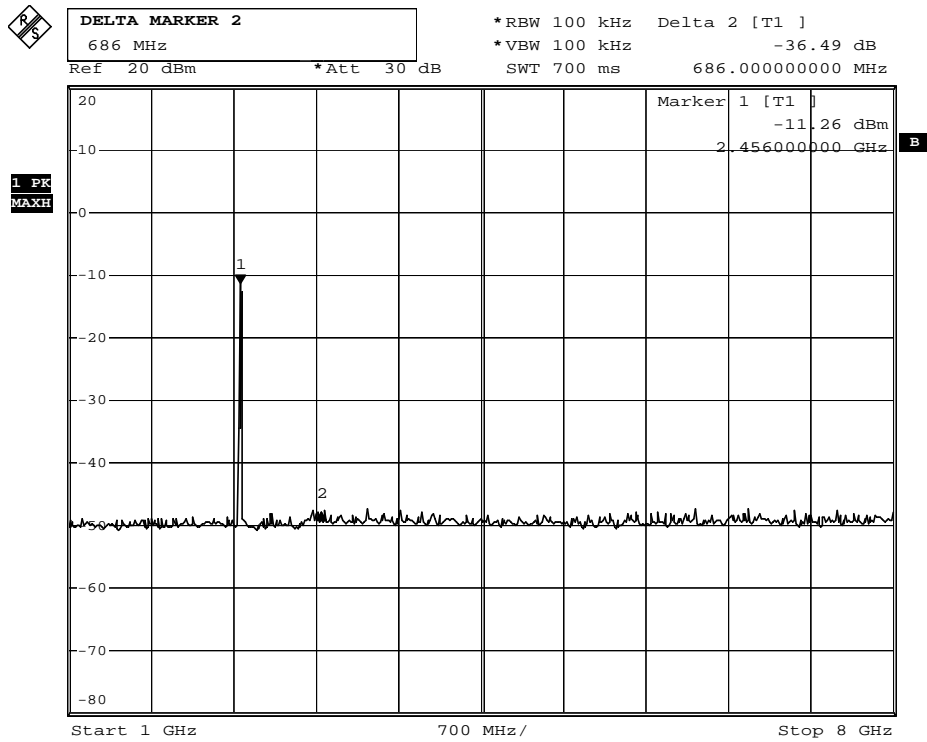
Comment: A:\2
 Date: 5.JUN.2012 16:15:15

2412MHz (1GHz~8GHz)-802.11g



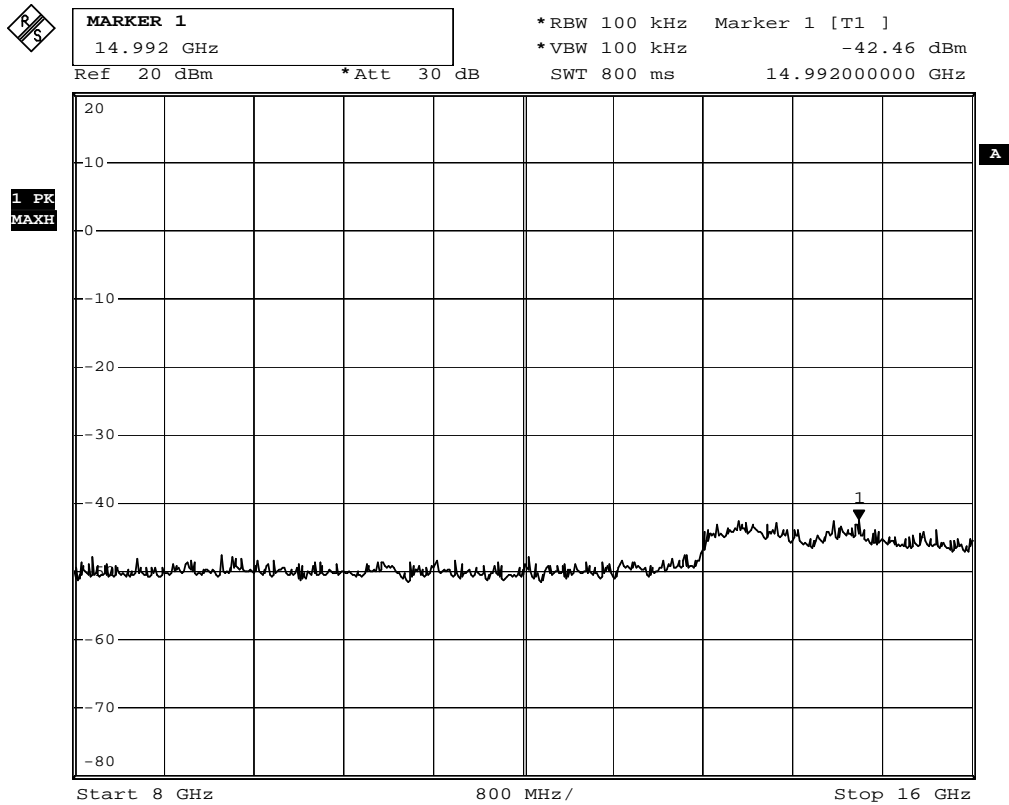
Comment: A:\2
 Date: 5.JUN.2012 17:29:52

2462MHz (1GHz~8GHz)-802.11g



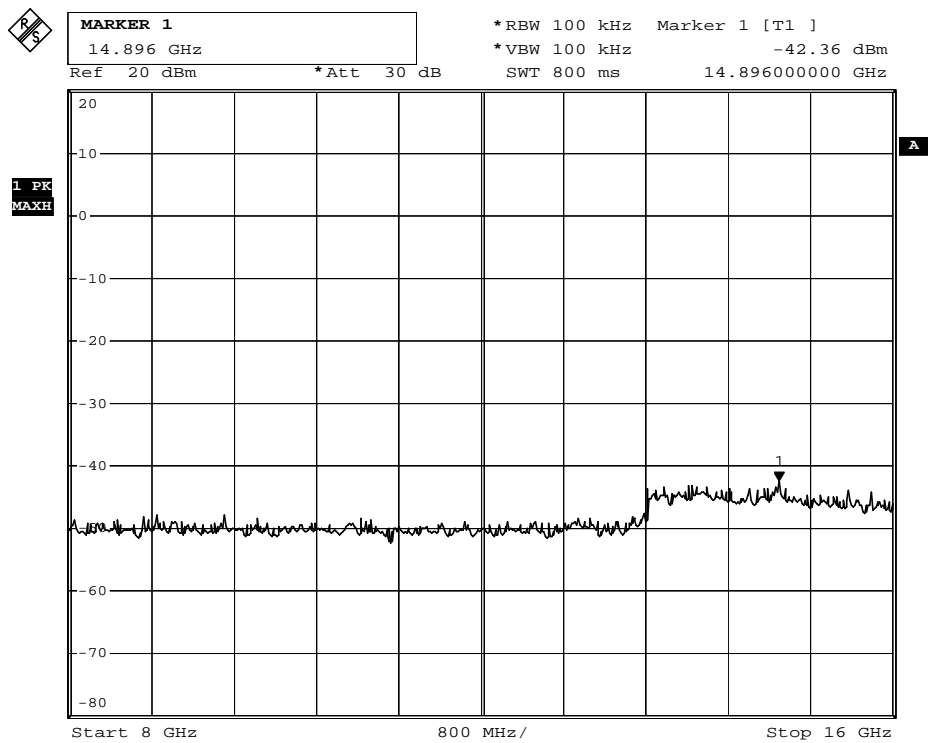
Comment: A:\2
 Date: 5.JUN.2012 17:30:58

2412MHz (8GHz~16GHz)-802.11g



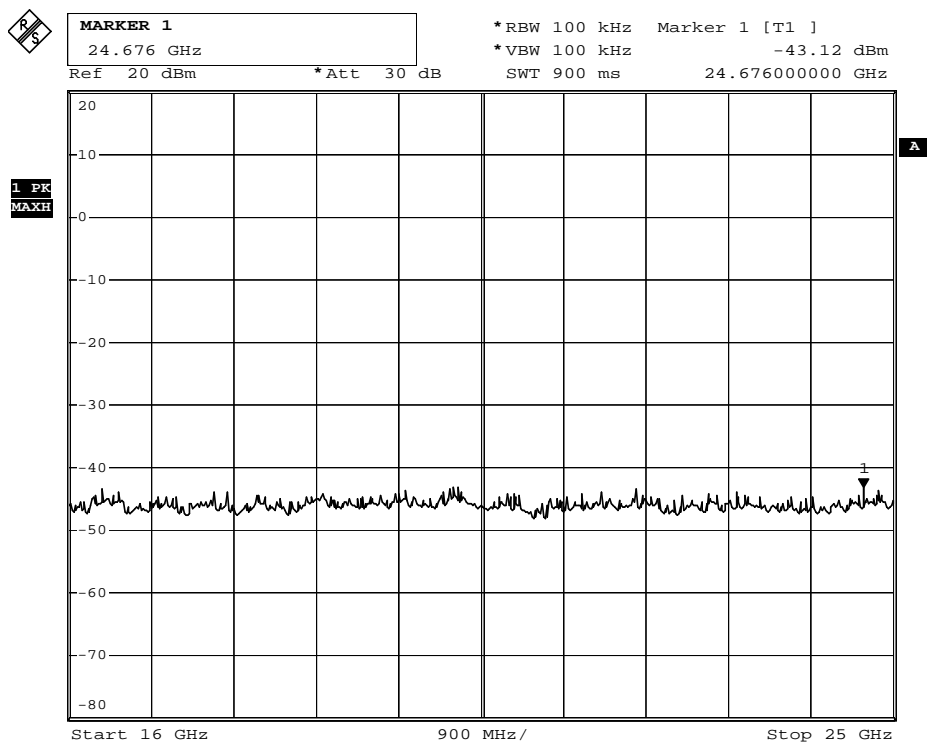
Comment: A:\2
Date: 5.JUN.2012 16:31:00

2462MHz (8GHz~16GHz)-802.11g



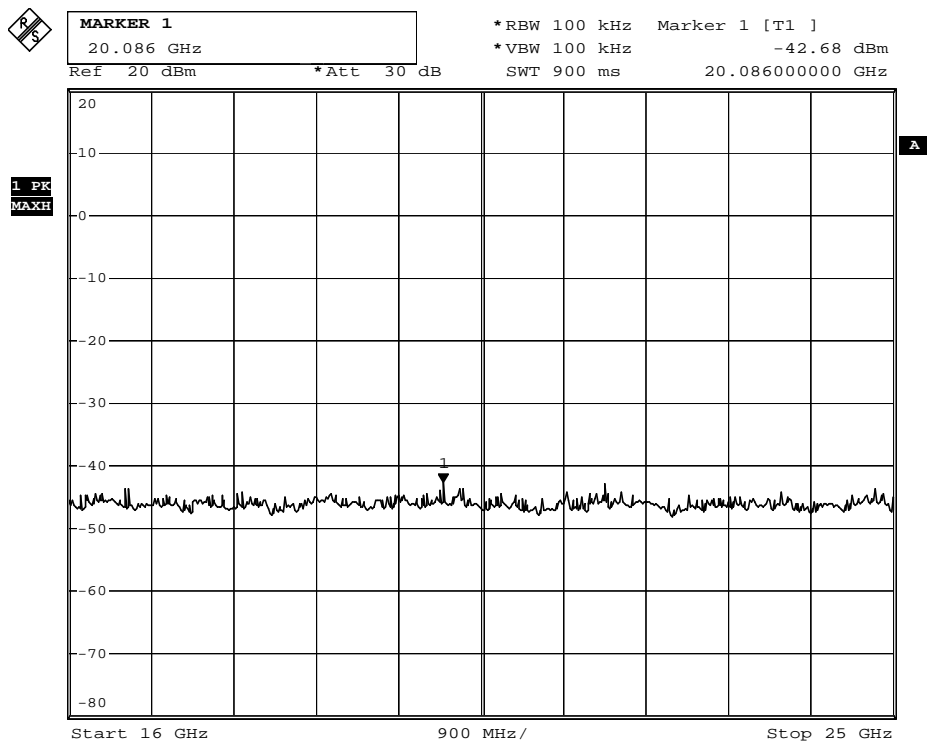
Comment: A:\2
Date: 5.JUN.2012 16:31:26

2412MHz (16GHz~25GHz)-802.11g



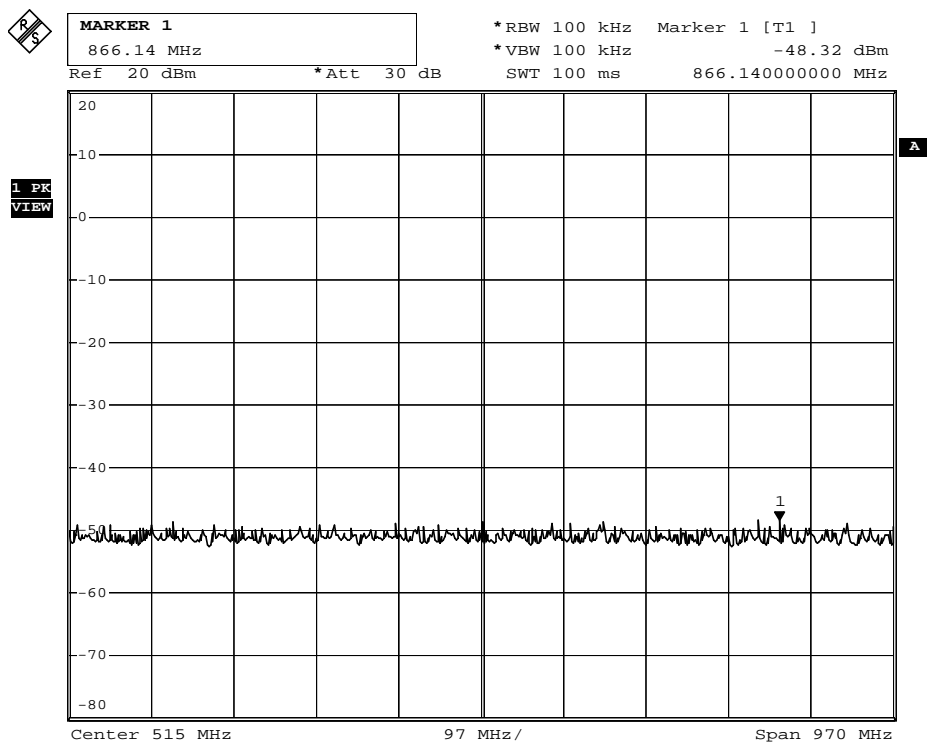
Comment: A:\2
 Date: 5.JUN.2012 16:34:30

2462MHz (16GHz~25GHz)-802.11g



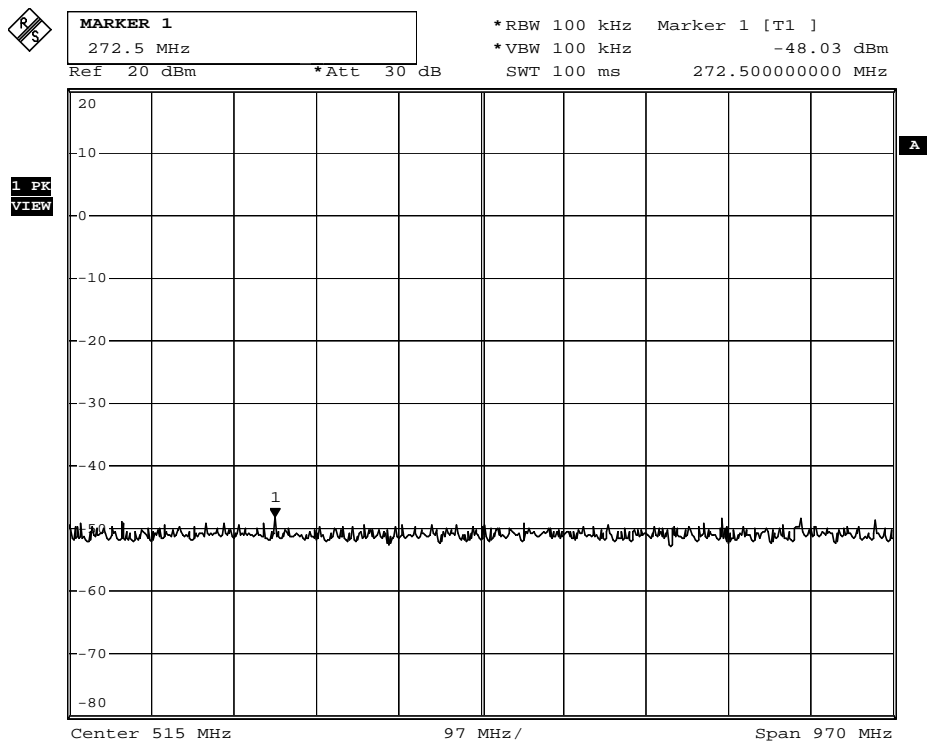
Comment: A:\2
 Date: 5.JUN.2012 16:34:56

2412MHz (30MHz~1GHz)-802.11n(20MHz) ANT 0



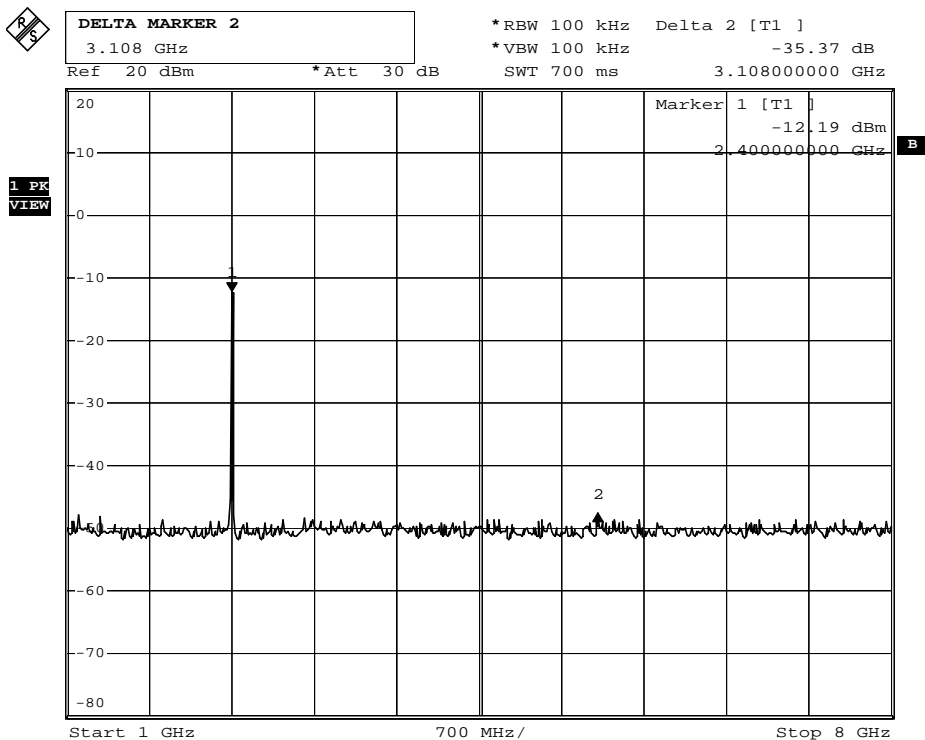
Comment: A:\2
 Date: 5.JUN.2012 16:15:42

2462MHz (30MHz~1GHz)-802.11n(20MHz) ANT 0



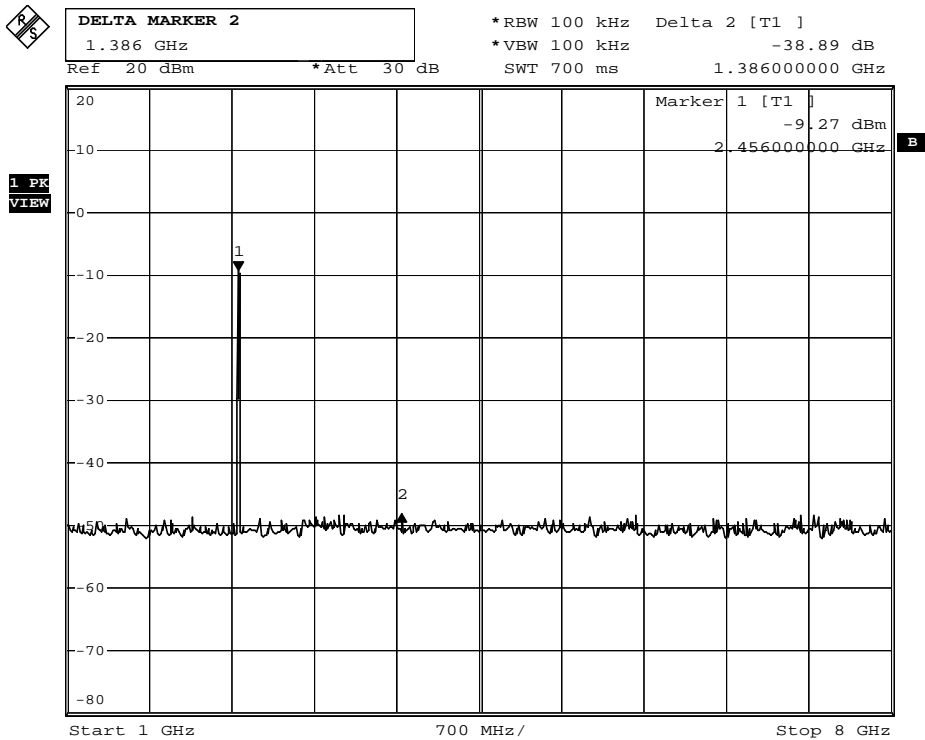
Comment: A:\2
 Date: 5.JUN.2012 16:16:14

2412MHz (1GHz~8GHz)-802.11n(20MHz) ANT 0



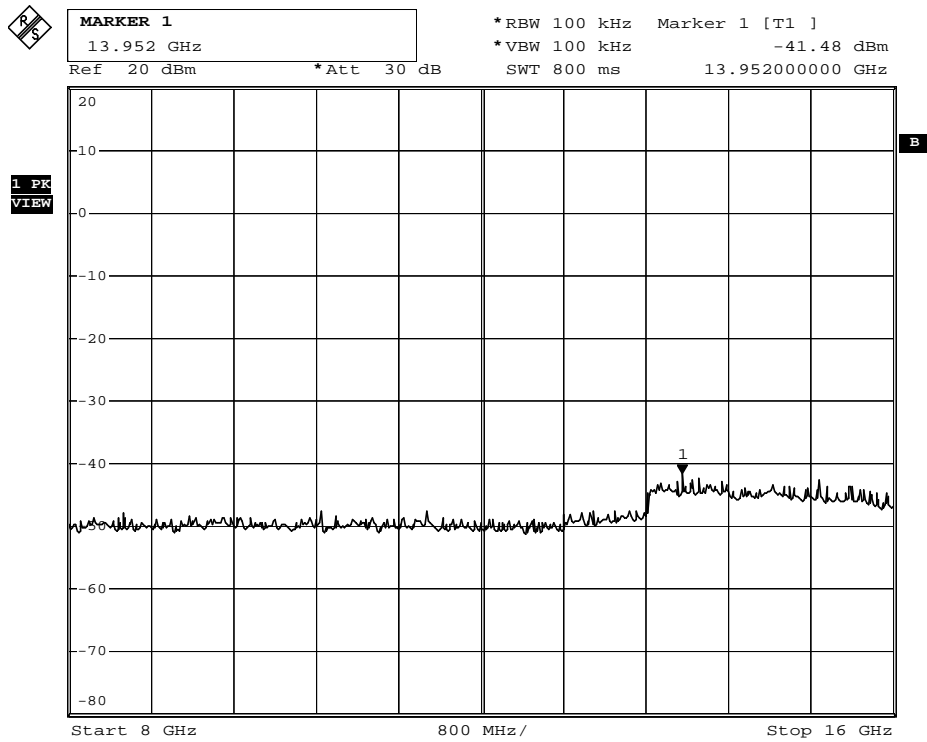
Comment: A:\2
 Date: 5.JUN.2012 17:58:57

2462MHz (1GHz~8GHz)-802.11n(20MHz) ANT 0



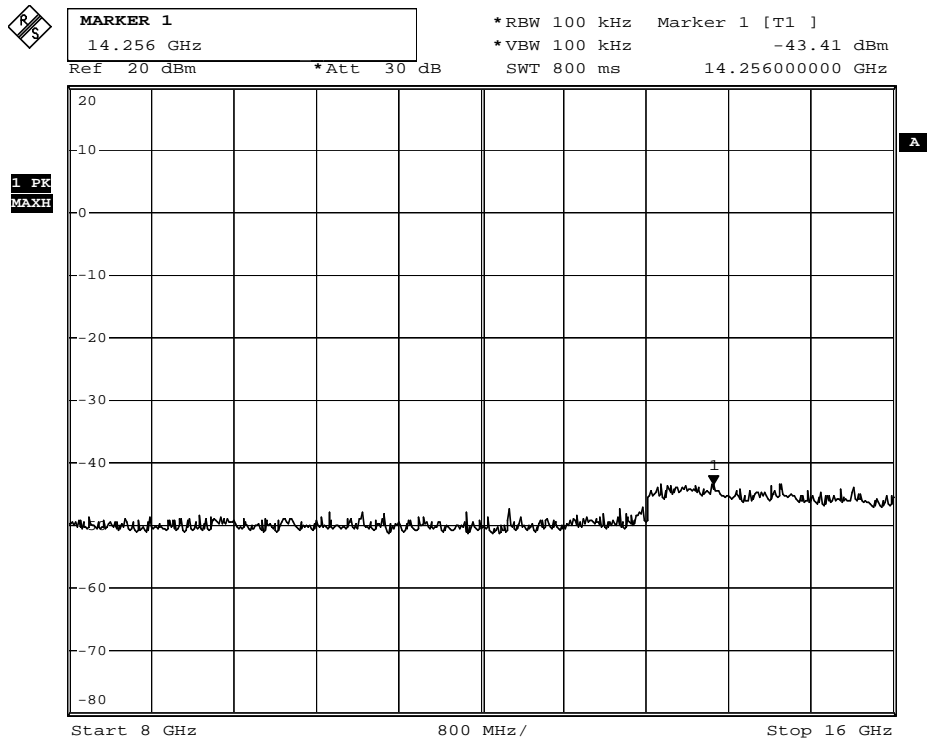
Comment: A:\2
 Date: 5.JUN.2012 17:57:58

2412MHz (8GHz~16GHz)-802.11n(20MHz) ANT 0



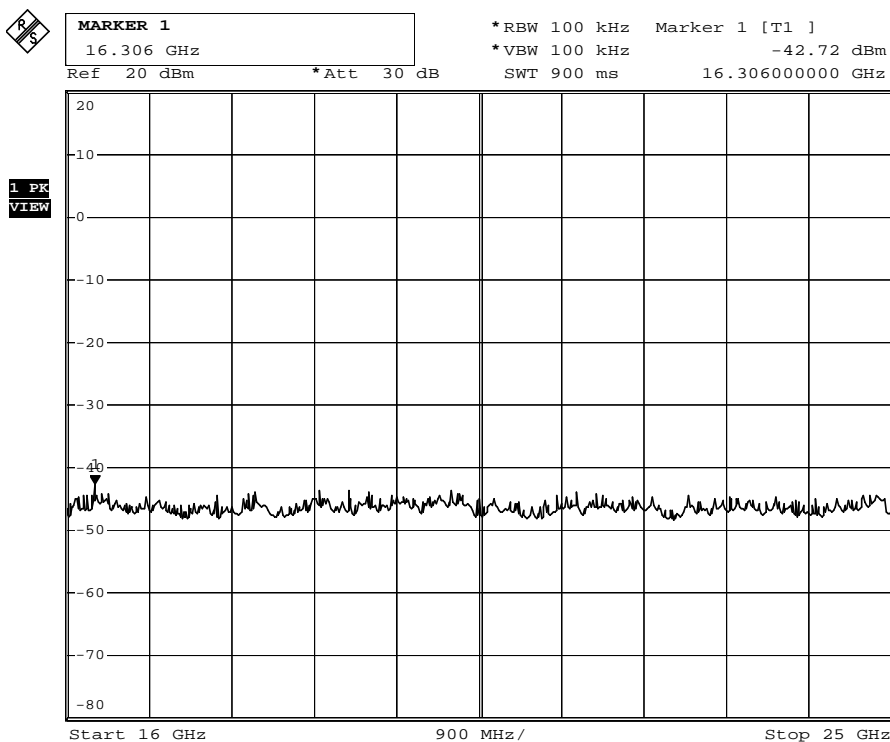
Comment: A:\2
 Date: 5.JUN.2012 19:26:20

2462MHz (8GHz~16GHz)-802.11n(20MHz) ANT 0



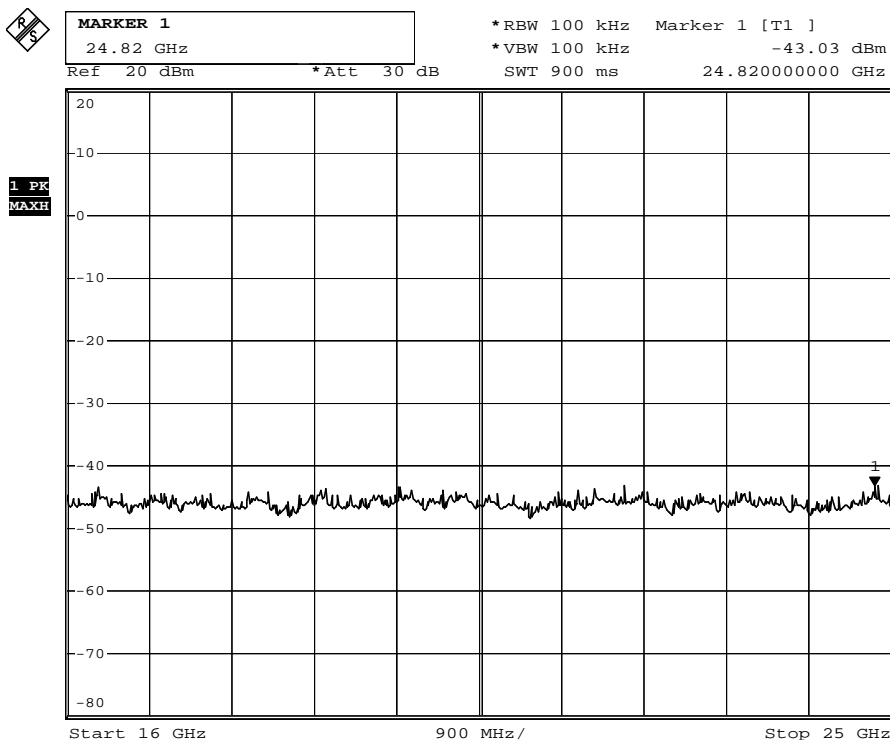
Comment: A:\2
 Date: 5.JUN.2012 16:29:24

2412MHz (16GHz~25GHz)-802.11n(20MHz) ANT 0



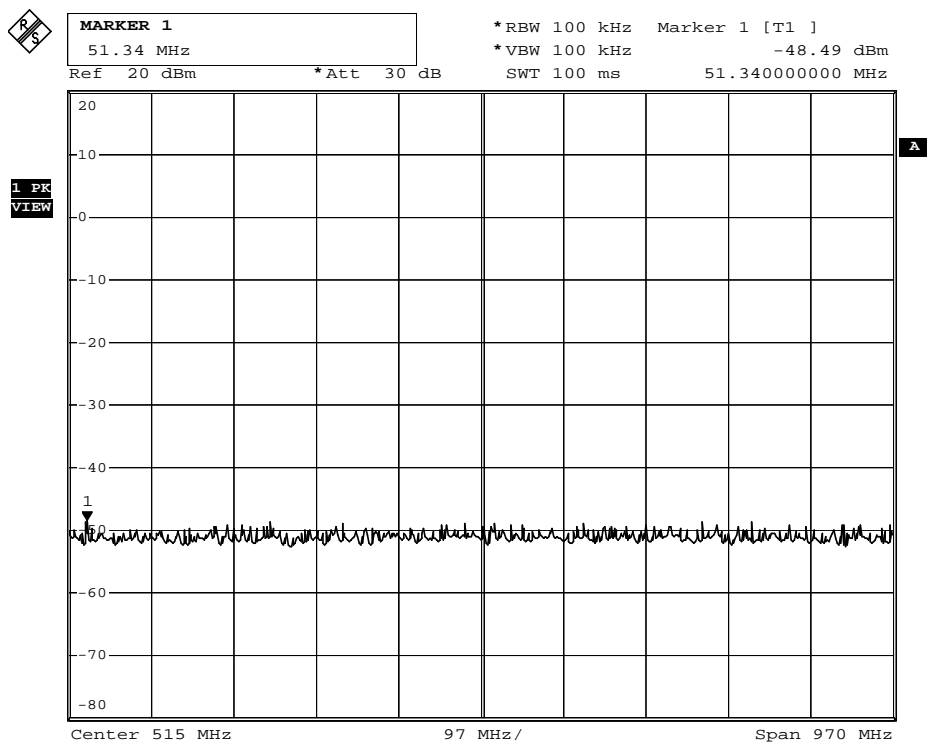
Comment: A:\2
 Date: 5.JUN.2012 16:35:50

2462MHz (16GHz~25GHz)-802.11n(20MHz) ANT 0



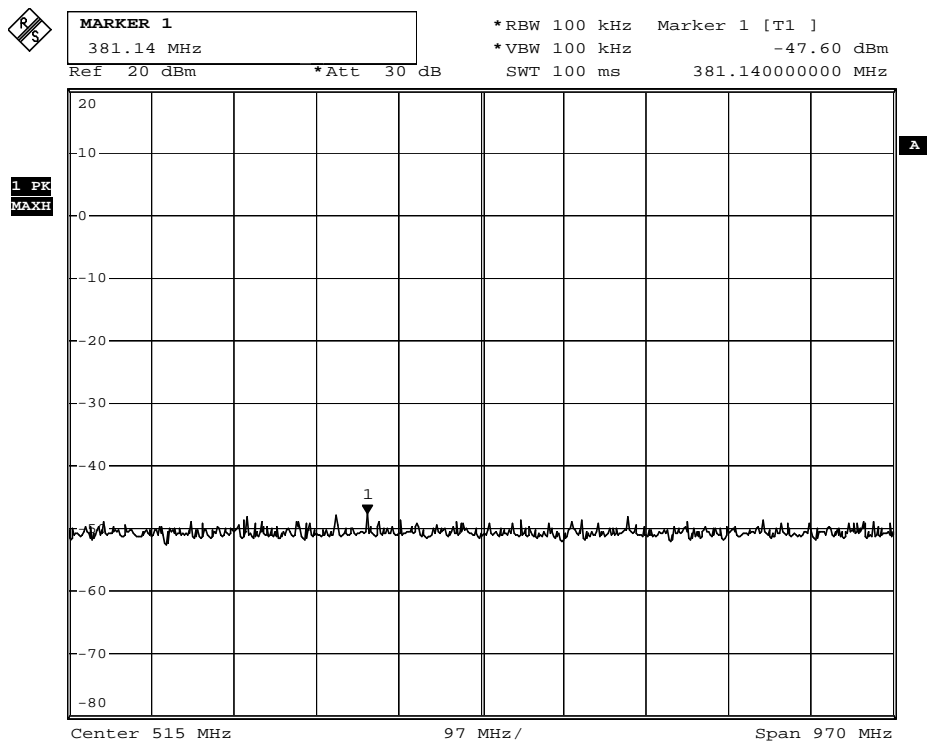
Comment: A:\2
 Date: 5.JUN.2012 16:35:15

2412MHz (30MHz~1GHz)-802.11n(20MHz) ANT 1



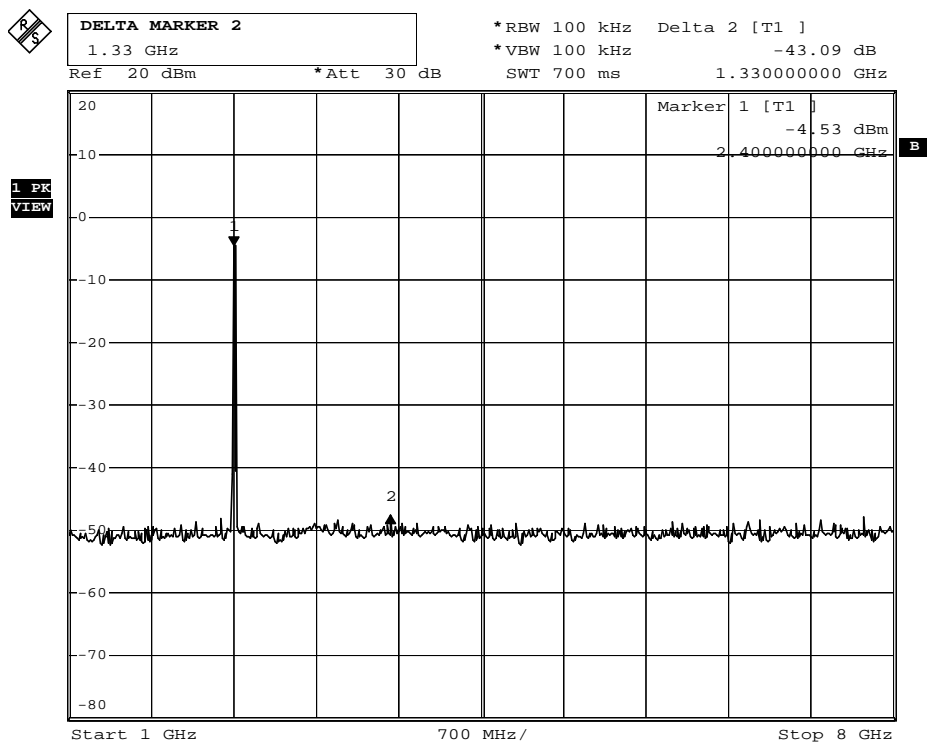
Comment: A:\2
 Date: 5.JUN.2012 16:16:31

2462MHz (30MHz~1GHz)-802.11n(20MHz) ANT 1



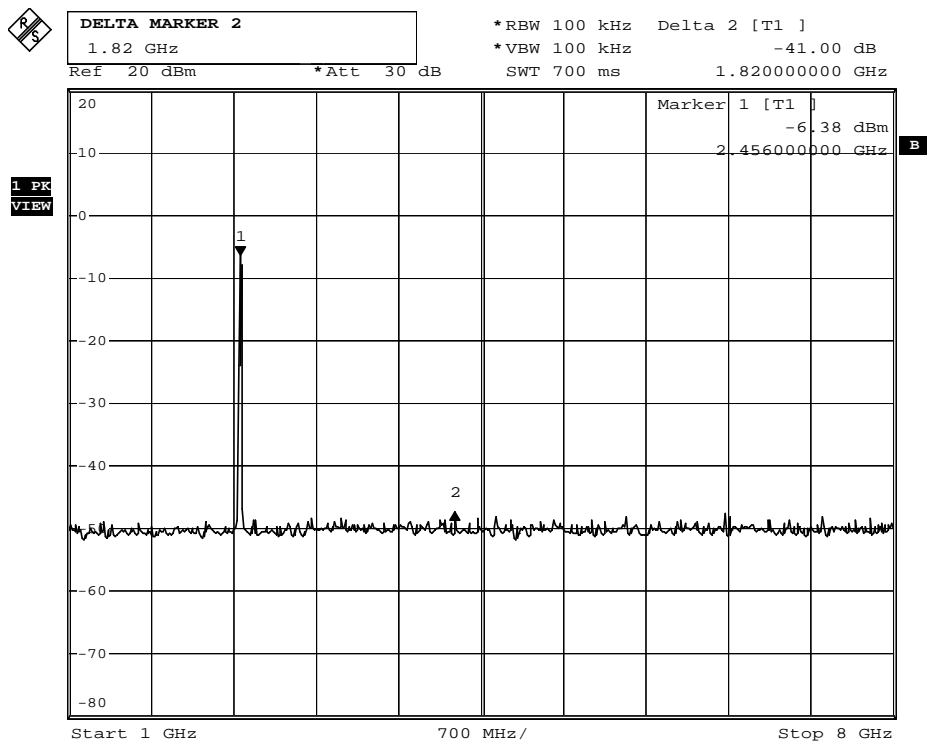
Comment: A:\2
 Date: 5.JUN.2012 16:17:05

2412MHz (1GHz~8GHz)-802.11n(20MHz) ANT 1



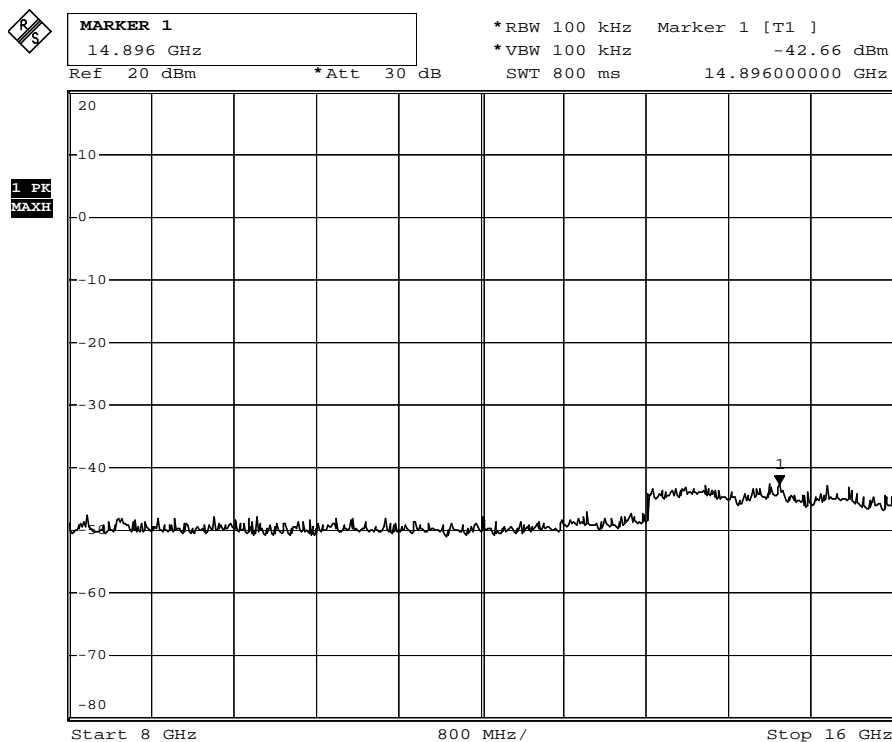
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Date: 5.JUN.2012 19:34:41

2462MHz (1GHz~8GHz)-802.11n(20MHz) ANT 1



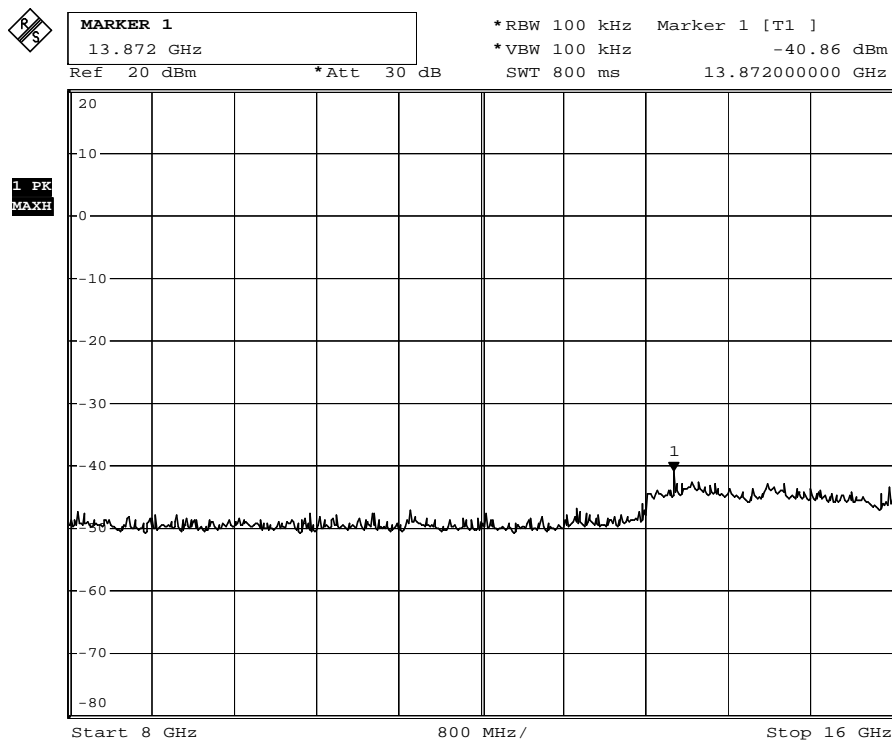
Comment: A:\2
Date: 5.JUN.2012 19:35:33

2412MHz (8GHz~16GHz)-802.11n(20MHz) ANT 1



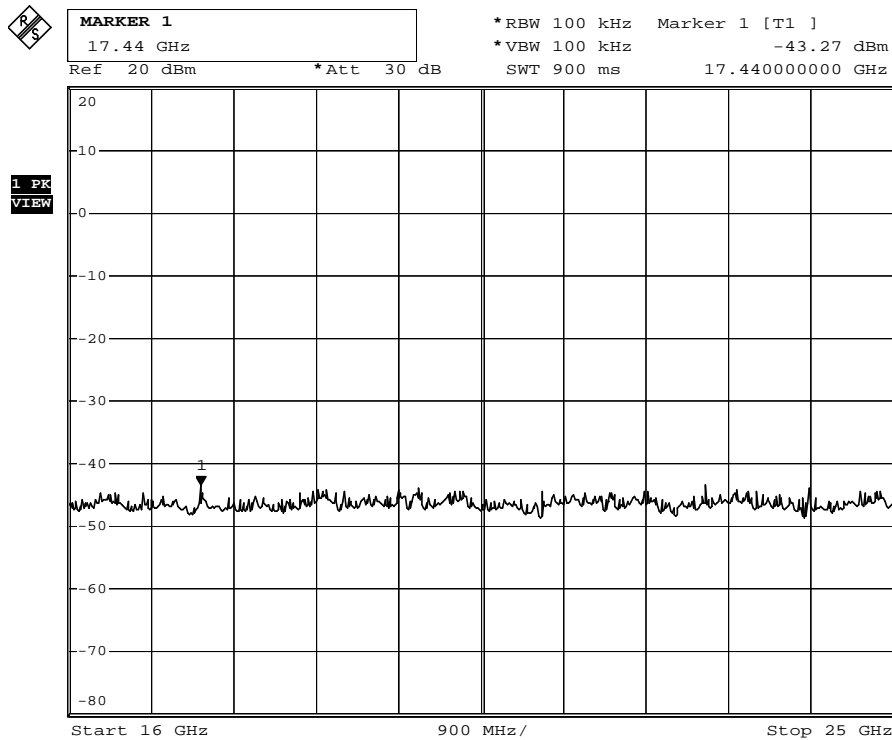
Comment: A:\2
 Date: 5.JUN.2012 16:25:39

2462MHz (8GHz~16GHz)-802.11n(20MHz) ANT 1



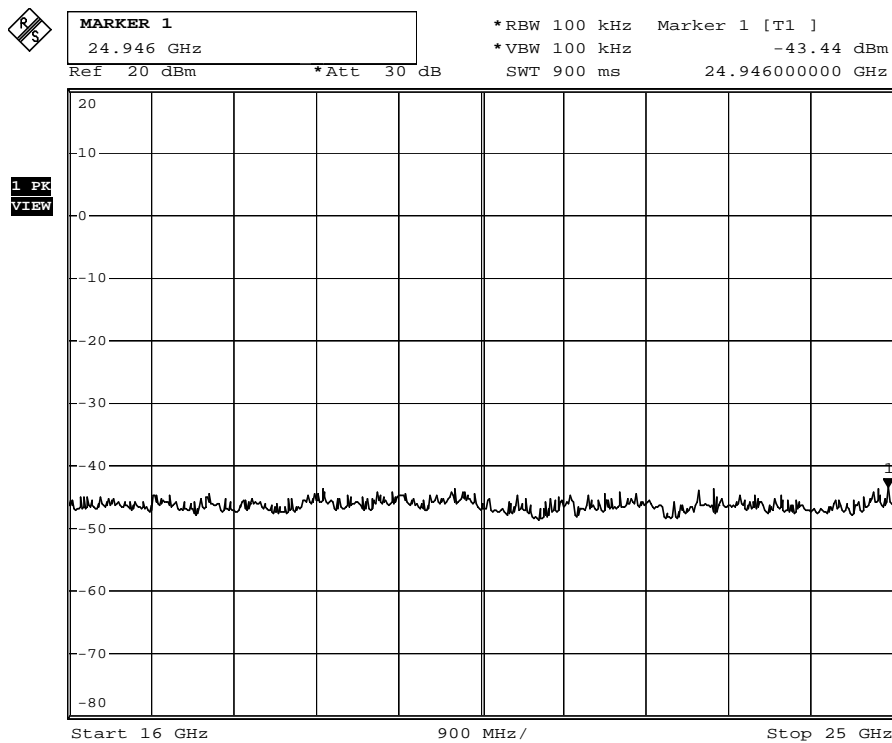
Comment: A:\2
 Date: 5.JUN.2012 16:26:11

2412MHz (16GHz~25GHz)-802.11n(20MHz) ANT 1



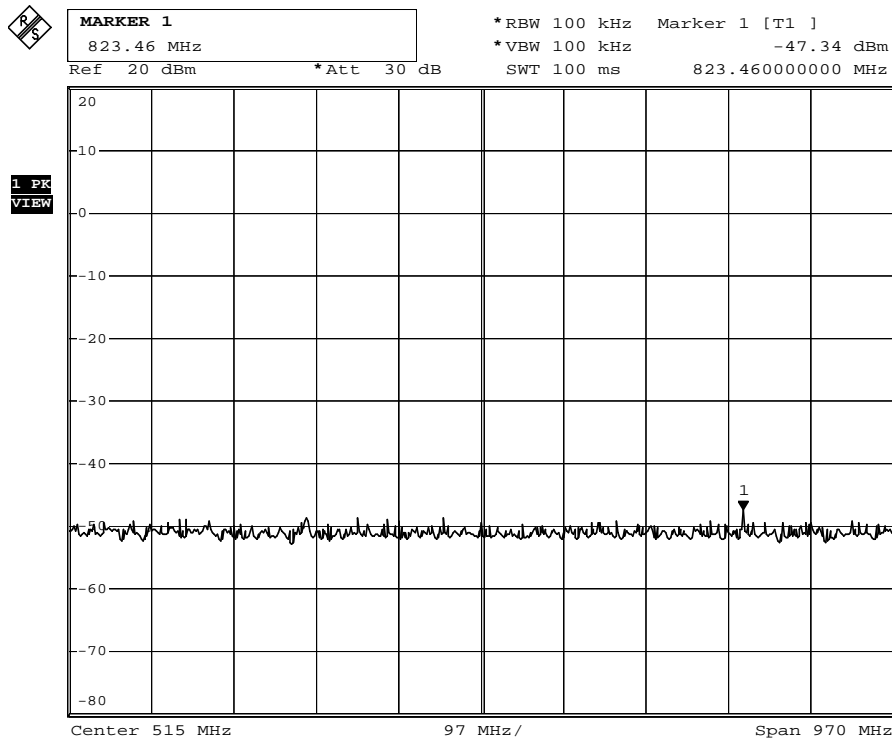
Comment: A:\2
 Date: 5.JUN.2012 16:36:50

2462MHz (16GHz~25GHz)-802.11n(20MHz) ANT 1



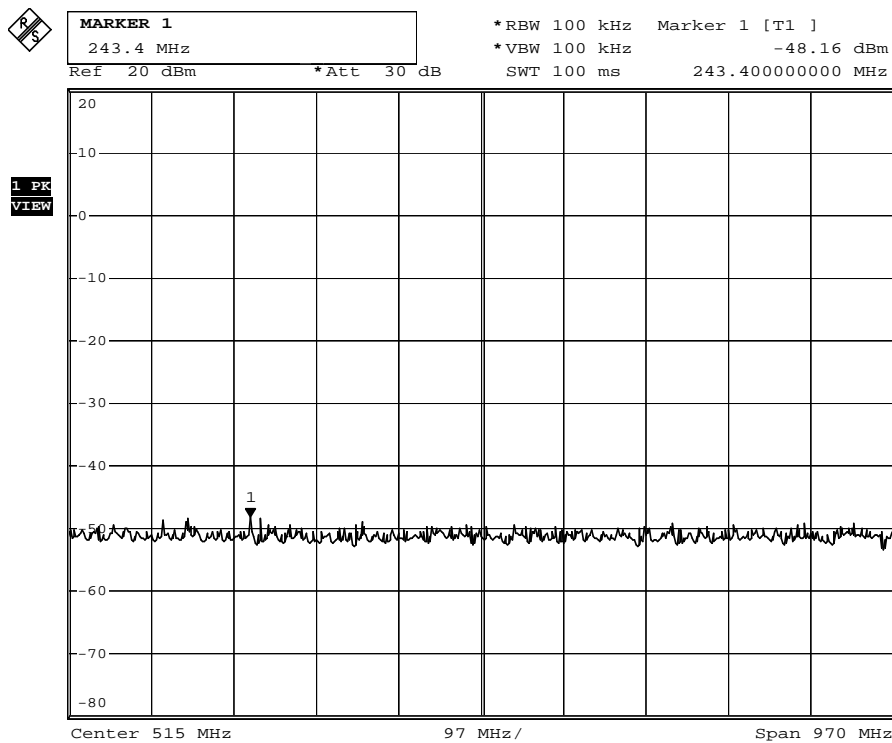
Comment: A:\2
 Date: 5.JUN.2012 16:36:07

2422MHz (30MHz~1GHz) -802.11n(40MHz) ANT 0



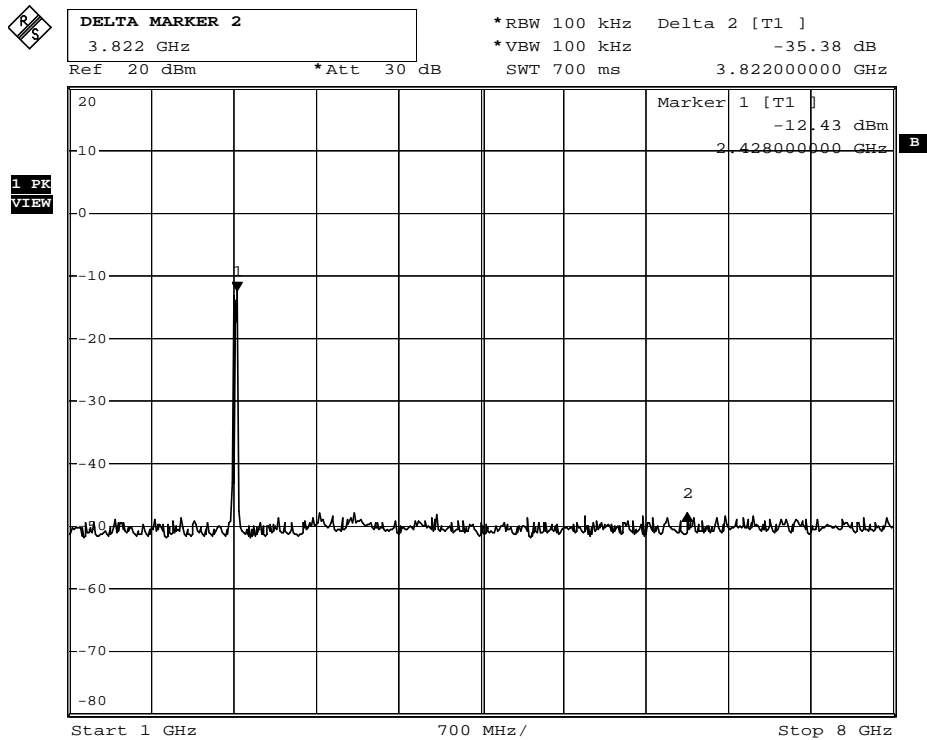
Comment: A:\2
 Date: 5.JUN.2012 16:17:36

2452MHz (30MHz~1GHz) -802.11n(40MHz) ANT 0



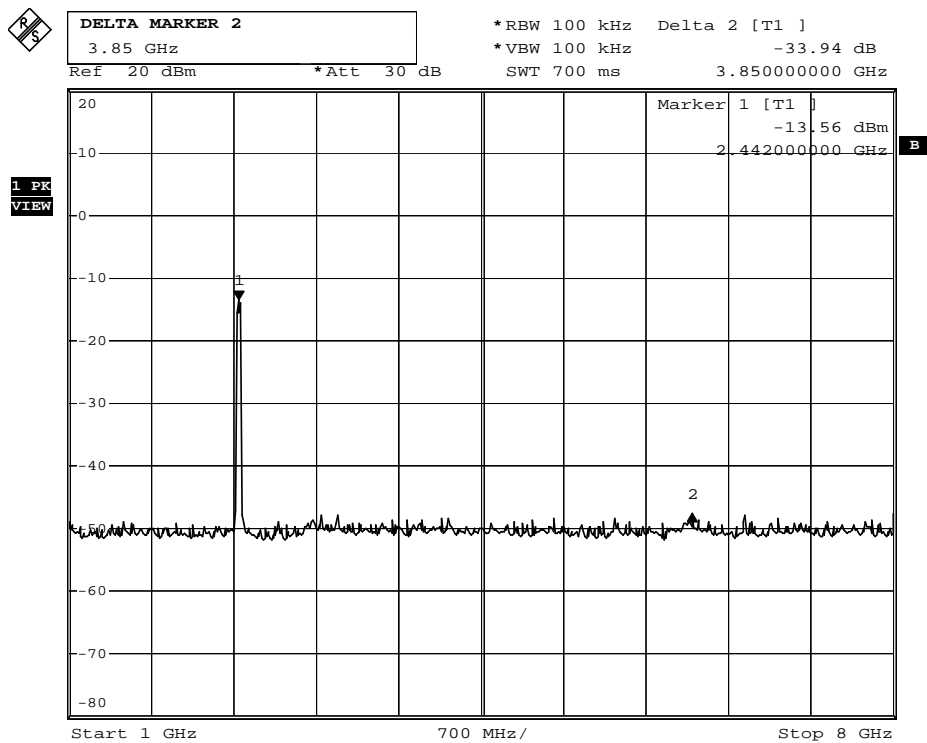
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2422MHz (1GHz~8GHz)-802.11n(40MHz) ANT 0



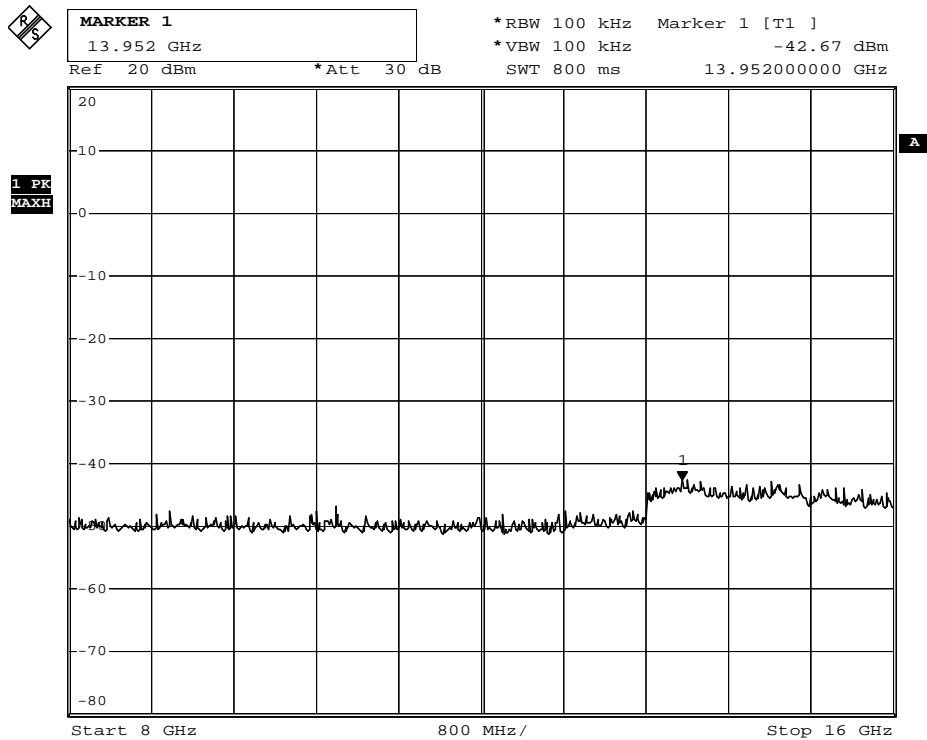
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2452MHz (1GHz~8GHz)-802.11n(40MHz) ANT 0



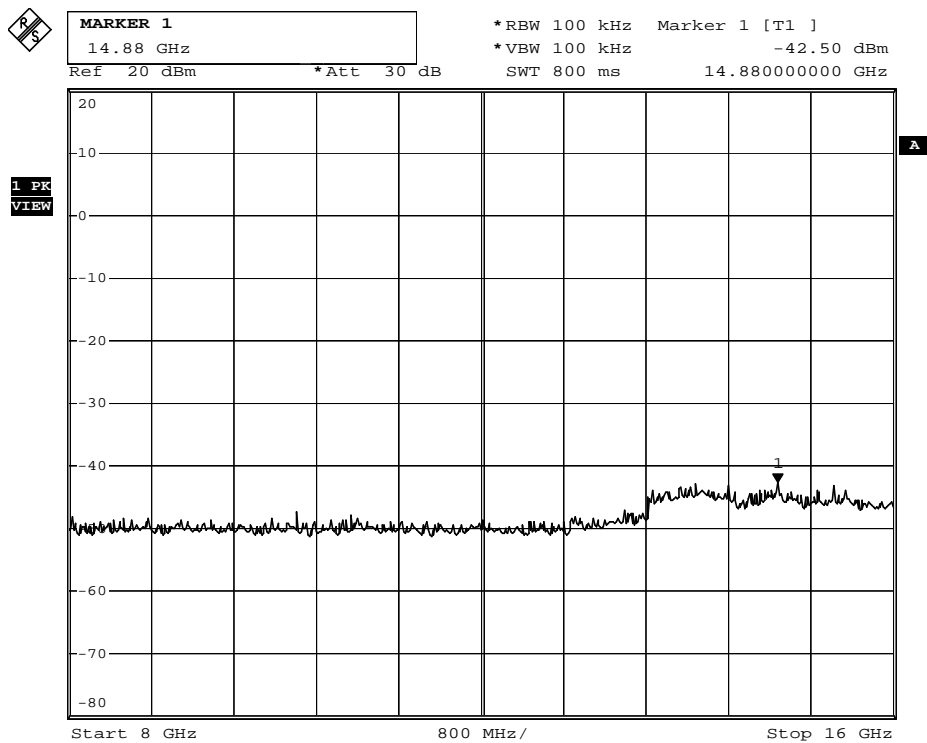
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2422MHz (8GHz~16GHz)-802.11n(40MHz) ANT 0



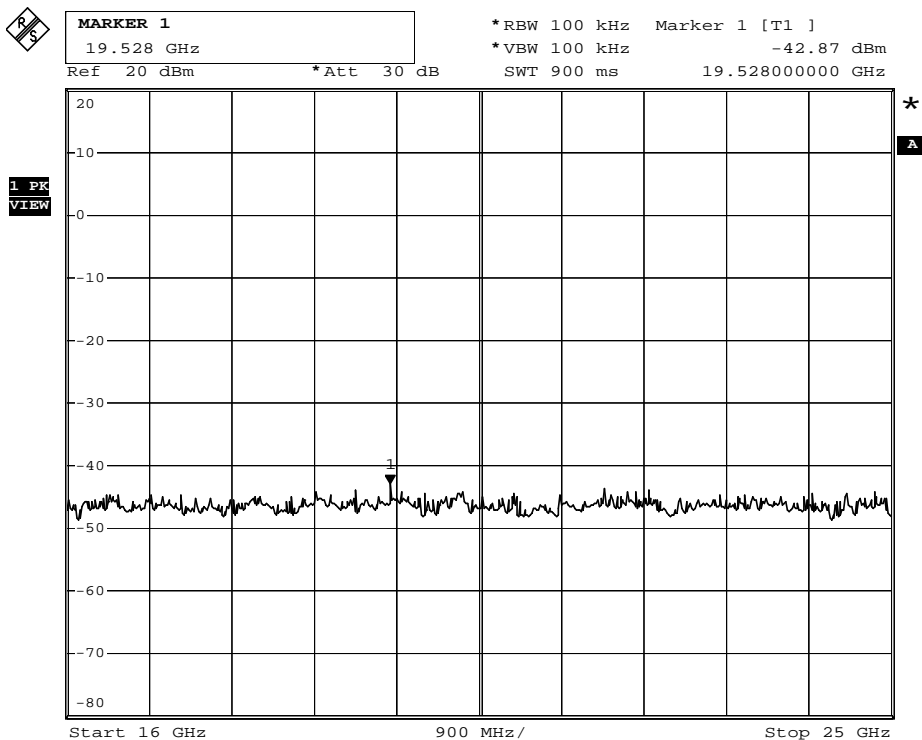
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2452MHz (8GHz~16GHz)-802.11n(40MHz) ANT 0



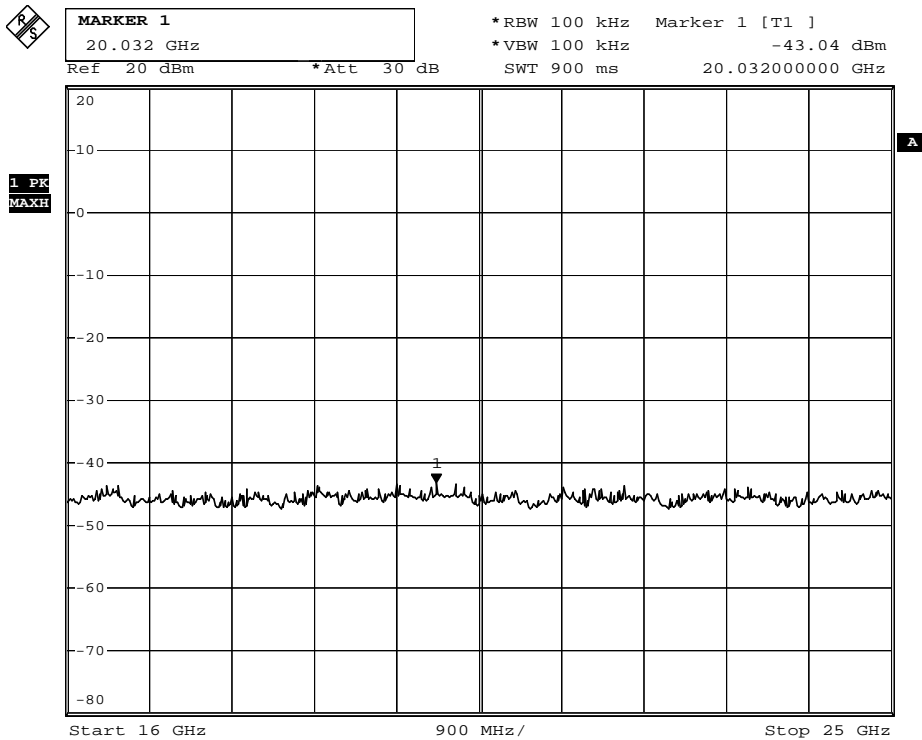
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2422MHz (16GHz~25GHz)-802.11n(40MHz) ANT 0



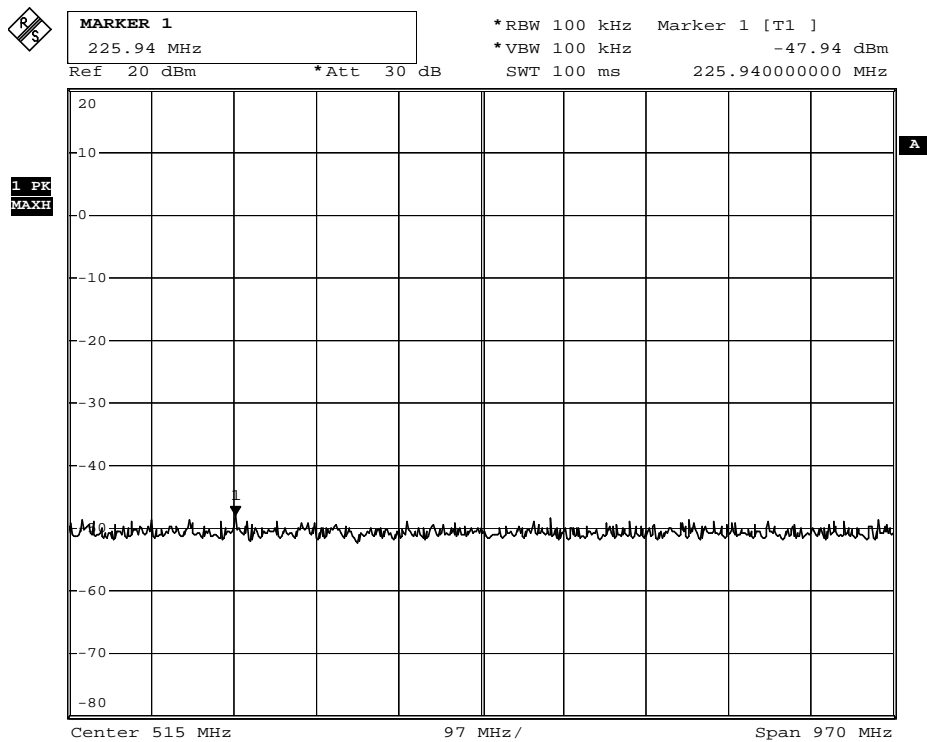
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2452MHz (16GHz~25GHz)-802.11n(40MHz) ANT 0



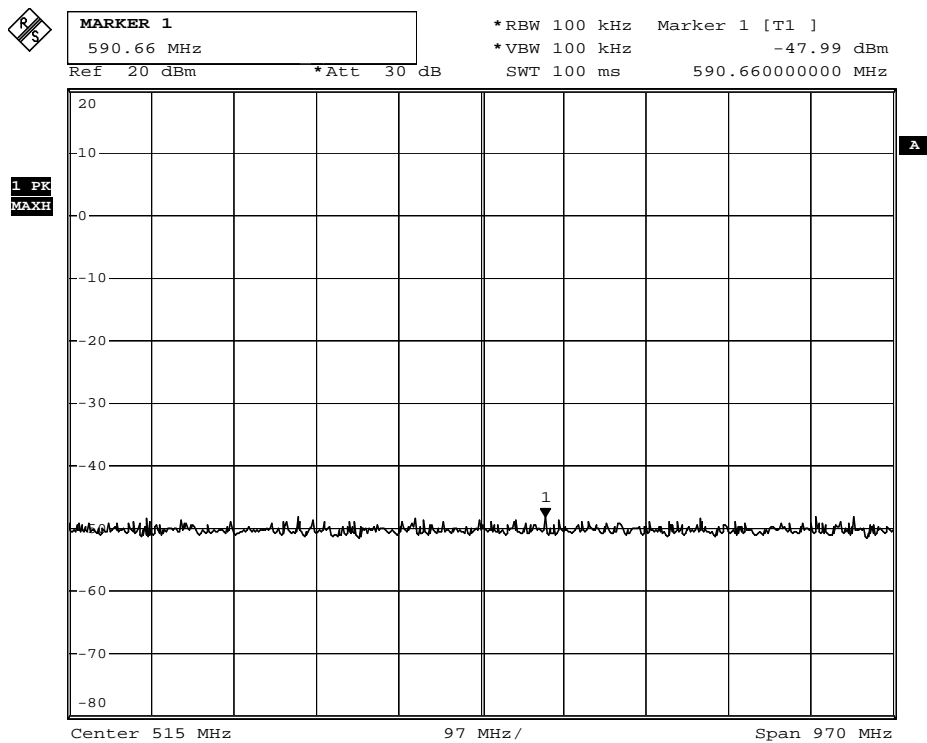
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2422MHz (30MHz~1GHz)-802.11n(40MHz) ANT 1



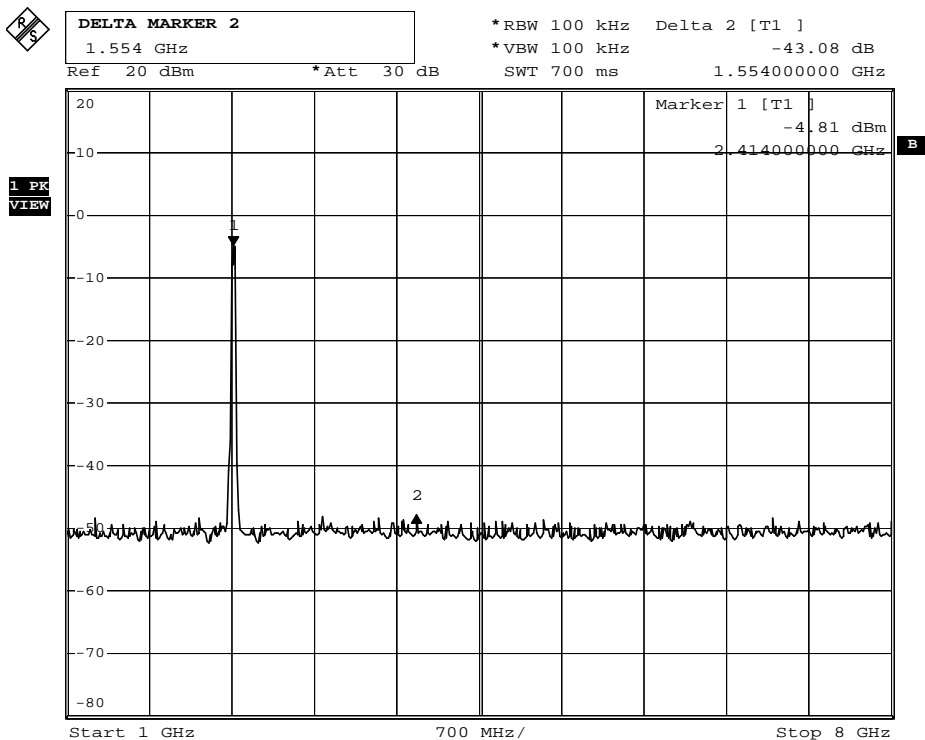
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2452MHz (30MHz~1GHz)-802.11n(40MHz) ANT 1



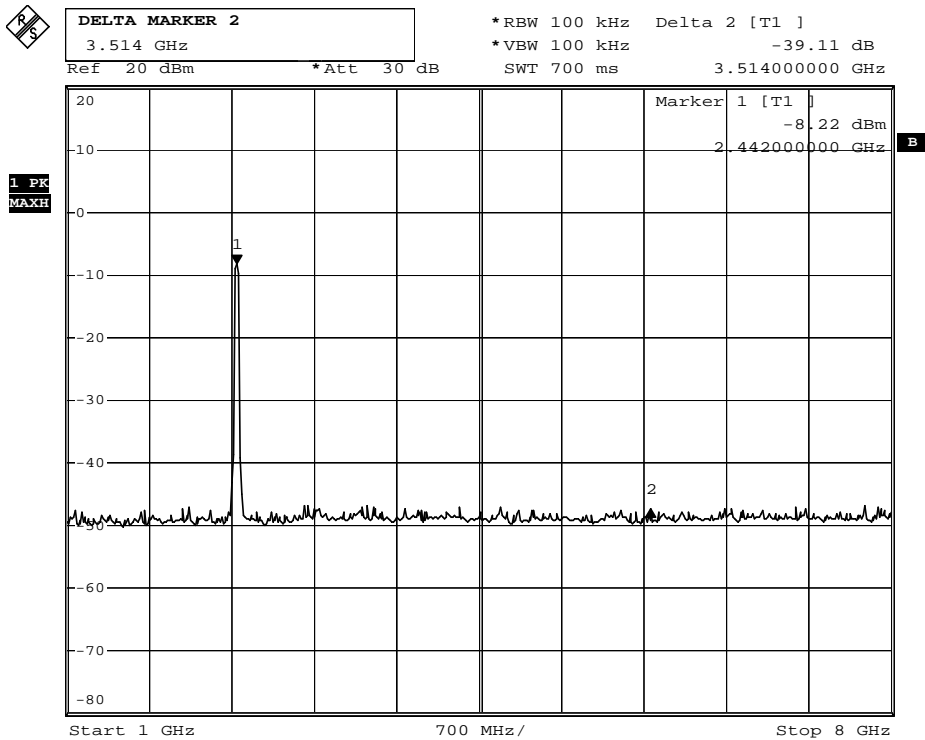
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2422MHz (1GHz~8GHz)-802.11n(40MHz) ANT 1



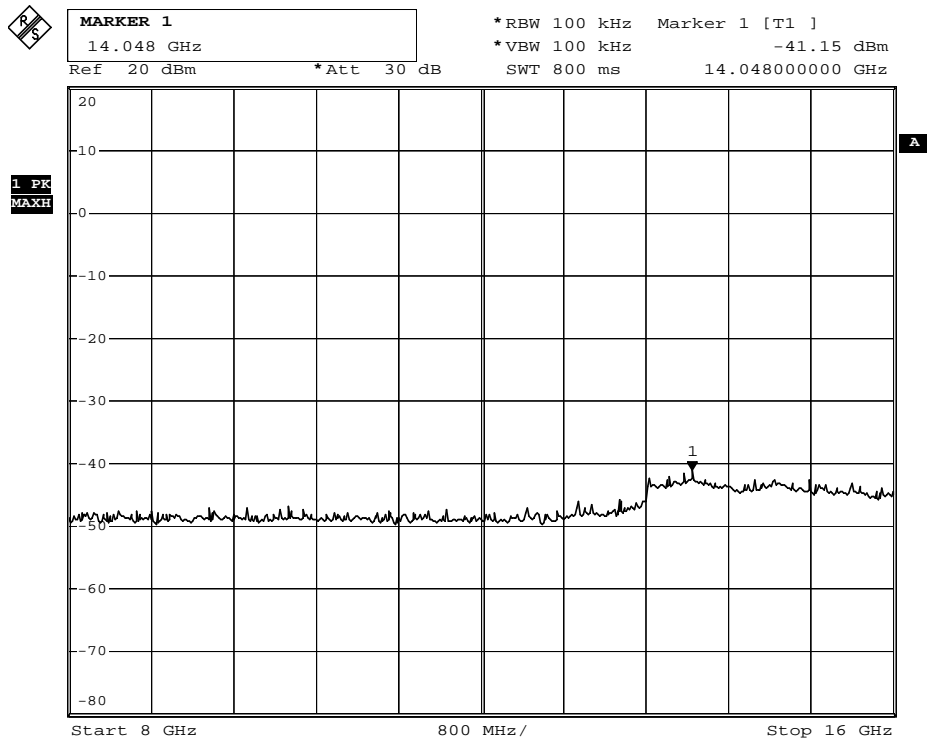
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2452MHz (1GHz~8GHz)-802.11n(40MHz) ANT 1



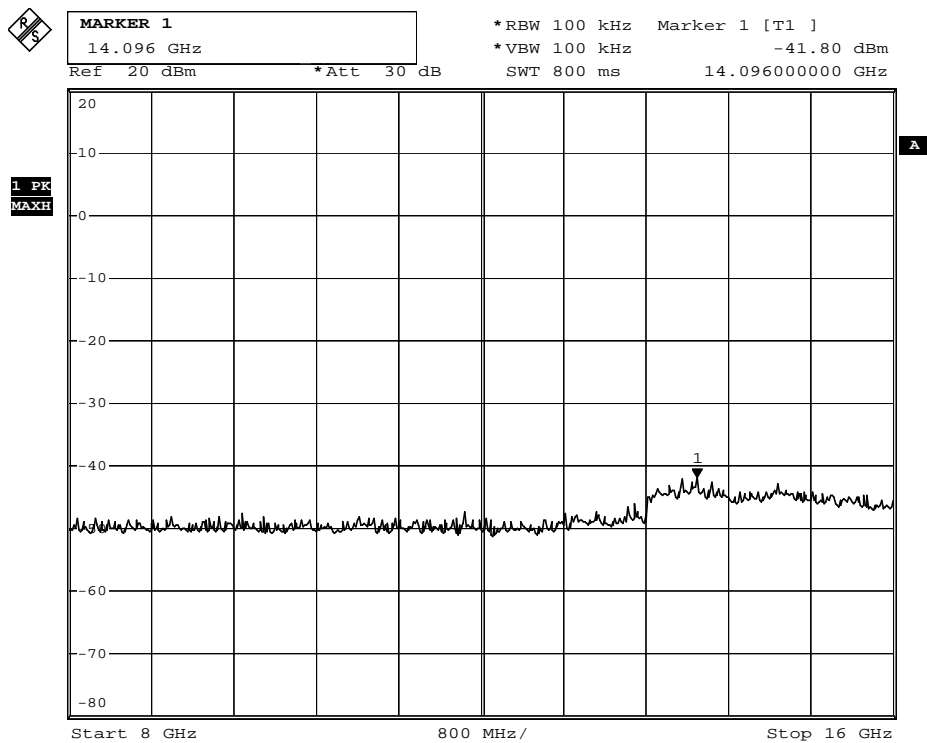
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2422MHz (8GHz~16GHz)-802.11n(40MHz) ANT 1



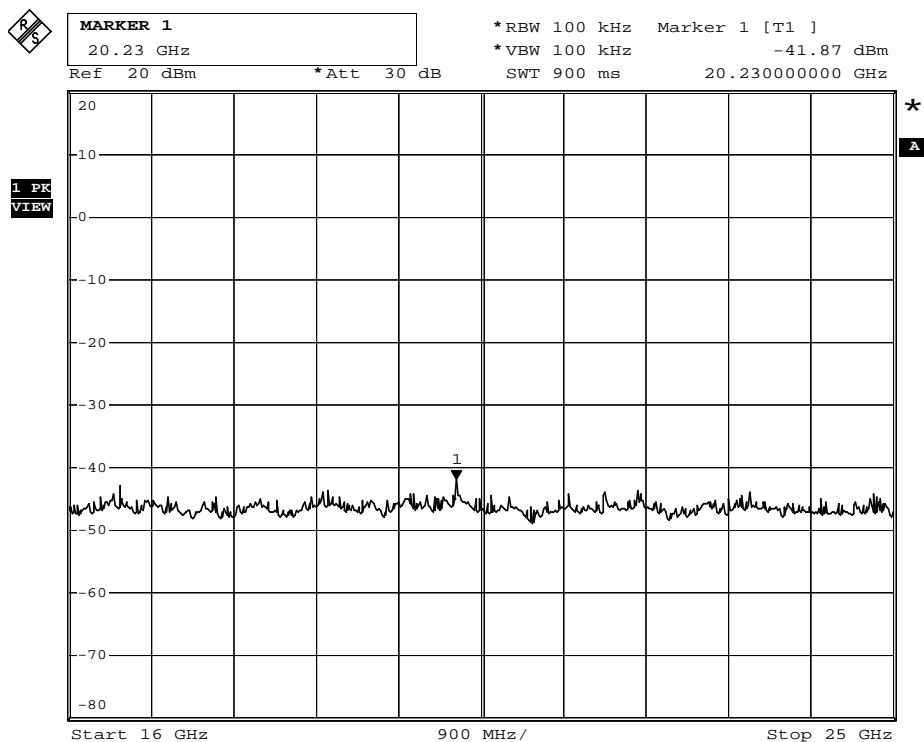
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2452MHz (8GHz~16GHz)-802.11n(40MHz) ANT 1



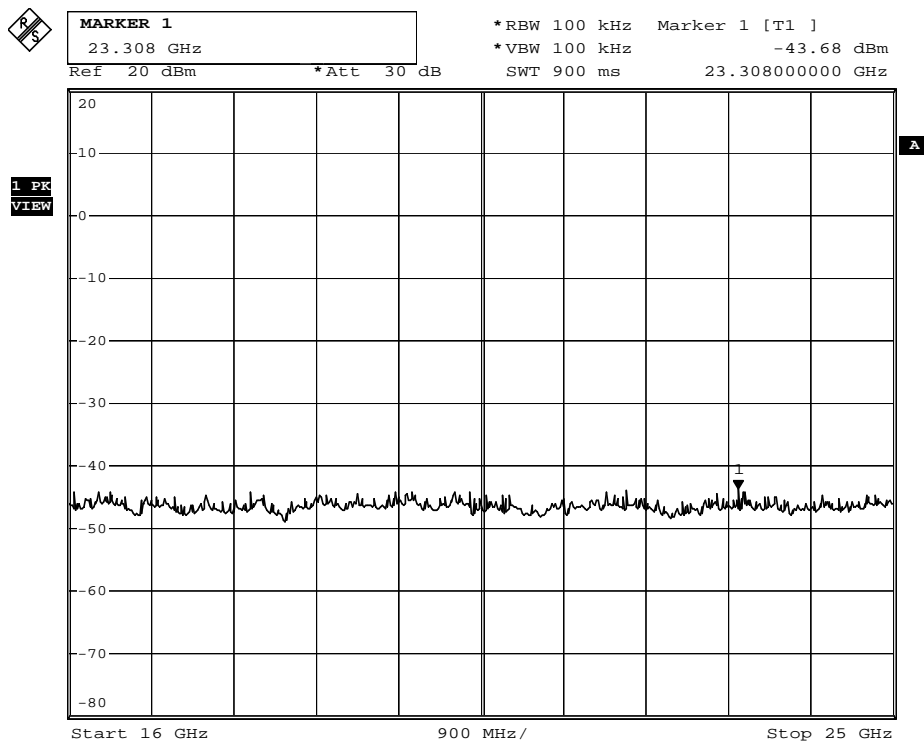
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2422MHz (16GHz~25GHz)-802.11n(40MHz) ANT 1



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2452MHz (16GHz~25GHz)-802.11n(40MHz) ANT 1



Comment: A:\2
 Date: 5.JUN.2012 16:37:59