FCC TEST REPORT

Prepared For :	Hopeful Electric CO., LTD
Product Name:	MID
Model :	MID727BT-RK326,SRF79,A7X,MID727BT-RK326A, MID727BT-RK326B,MID727BT-RK326C
Prepared By :	Shenzhen BATT Testing Technology Co., Ltd. 11F, Bldg.B, Xinbaoyuan, Xinanhu Commercial city, Bao'an District, Shenzhen, Guangdong, China. Tel: 86-755-27753991 Fax: 86-755-27754182
Test Date:	April 18, 2014 to July 25, 2014
Date of Report :	July 28, 2014
Report No.:	BATT201407098-01FCC

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1 TEST CERTIFICATION

Product:	MID
Model:	MID727BT-RK326,SRF79,A7X,MID727BT-RK326A, MID727BT-RK326B,MID727BT-RK326C
Applicant:	Hopeful Electric CO., LTD 22 Floor,Changhong Building,Hi-Tech Park,Nanshan District,Shenzhen City, P.R.China
Factory:	Hopeful Elecrtic CO., LTD / Associate Electronic Co.,Ltd 148, Ronggui Road (Mid), Ronggui Town, Shunde District, Foshan City, Guangdong Prov., China / 4, Guixindong Road, Ronggui Town, Shunde District, Foshan City, Guangdong Prov., China
Trade Mark:	N/A
Tested:	April 18, 2014 to July 25, 2014
Test Voltage:	DC5V by power supply, 3.7V polymer lithium-ion battery
Operational Frequency Range:	IEEE 802.11b/g, 802.11n HT20: 2412-2462MHz IEEE 802.11n HT40 : 2422MHz-2452MHz
Modulation Type:	IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g : OFDM (64QAM, 16AQM, QPSK, BPSK) IEEE 802.11n HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing	IEEE 802.11b/g/n: 5MHz, 1MHz for Bluetooth
Air Data Rate	IEEE 802.11b : 11, 5.5, 2, 1 Mbps IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps IEEE 802.11n HT20 : 150, 117 ,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps IEEE 802.11n HT40 : 150, 117 ,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps
Frequency Selection	By software
Channel Number	IEEE 802.11b/g ,802.11n HT20 : 11 Channels IEEE 802.11n HT40 : 7 Channels,
Antenna:	Integral antenna with Gain 2.0 dBi
Power Supply:	Model No.: HP0515D2-NA Input:100-240V, 0.3A, 50/60Hz; Output: +5V, 1.5A Max
FCC ID:	2AAQZMID727B1-RK326
Applicable Standards:	FCC Part 15.247

The test report was prepared by Shenzhen BATT Testing Technology Co., Ltd.and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Prepared by : Hellen Xiao

Hellen XiaoAssistant

Reviewer : Mike Yong

Mike Yong/Supervisor

Approved & Authorized Signer : Jones Song

Jones Song/ Manager

2.0 Test Equipments

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2013-08-27	2014-08-26
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2013-08-27	2014-08-26
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2013-08-27	2014-08-26
Loop Antenna	EMCO	6502	00042960	2013-06-25	2014-06-24
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2013-08-27	2014-08-26
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170399	2013-09-15	2014-09-14
Horn Antenna	SCHWARZBECK	BBHA 9120	D143	2013-09-15	2014-09-14
Power meter	Anritsu	ML2487A	6K00003613	2013-08-27	2014-08-26
Power sensor	Anritsu	MA2491A	32263	2013-08-27	2014-08-26
Bilog Antenna	Schwarebeck	VULB9163	9163/142	2013-12-13	2014-12-12
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2013-08-27	2014-08-26
9*6*6 Anechoic	--	--	N/A	2013-08-27	2014-08-26
EMI Test Receiver	RS	ESCS30	100139	2013-08-27	2014-08-26
LISN	RS	ESH2-Z5	100225	2013-08-27	2014-08-26
Pre-Amplifier	A.H.	PAM-0126	1415261	2014-07-23	2015-07-22

3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

Note: This test report was based on original test with FCC ID: 2AAQZMID727BT-RK326. Products of FCC ID 2AAQZMID727B1-RK326 are electrically identical with original products of FCC ID: 2AAQZMID727BT-RK326 except FCC ID 2AAQZMID727B1-RK326 include additional battery package，so 0.15kHz to 30MHz conducted emission test and 30MHz to 1GHz radiated emission test are done at samples with additional battery package， Other data are from original report of FCC ID: 2AAQZMID727BT-RK326

4.0 Test LAB Details

All Tests Performed at

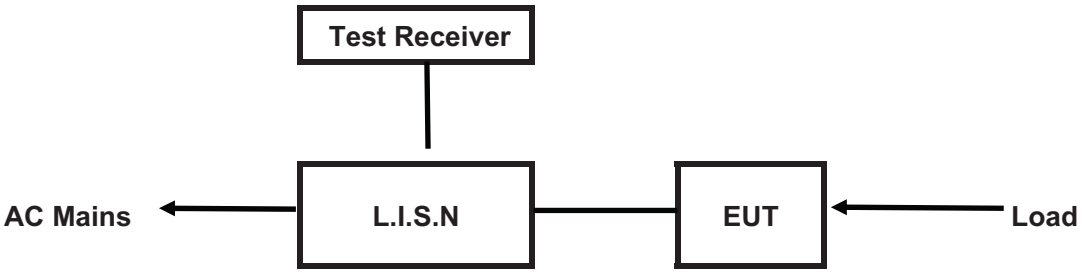
Name: Shenzhen Emtek Co., Ltd.

Address: Bldg. 69, Majialong Industry Zone,,Nanshan District,Shenzhen, Guangdong, 518052China

FCC Registration Number: 406365

5. Power Line Conducted Emission Test

5.1 Schematics of the test



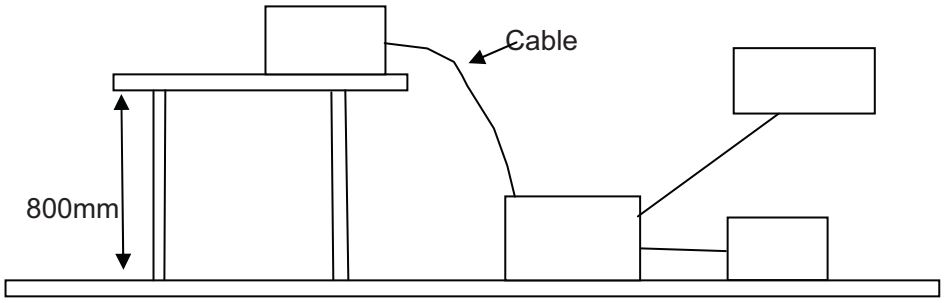
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003.The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
MID	Hopeful Elecrtic CO., LTD / Associate Electronic Co.,Ltd	MID727BT-RK326,SRF79,A7X,MID727BT-RK326,MID727BT-RK326A,MID727BT-RK326B,MID727BT-RK326C,MID727BT-RK326	2AAQZMID727B1-RK326

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107, 15.207

Frequency (MHz)	Class A Limits (dBμV)		Class B Limits (dBμV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ～ 0.50	79.0	66.0	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	73.0	60.0	56.0	46.0
5.00 ～ 30.00	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Worse case was recorded.

A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

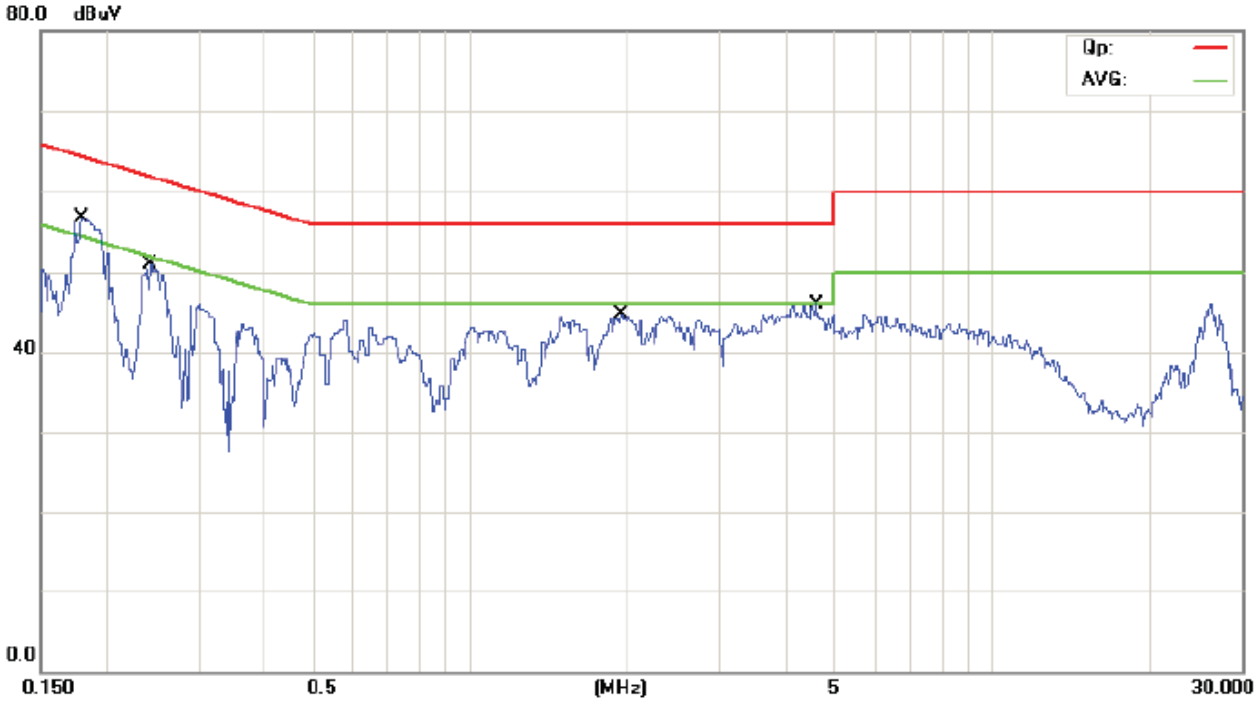
Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1792	44.10	11.03	55.13	64.52	-9.39	QP	
2		0.1792	24.20	11.03	35.23	54.52	-19.29	AVG	
3		0.2436	37.74	11.10	48.84	61.97	-13.13	QP	
4		0.2436	23.34	11.10	34.44	51.97	-17.53	AVG	
5		1.9400	32.40	12.28	44.68	56.00	-11.32	QP	
6		1.9400	17.56	12.28	29.84	46.00	-16.16	AVG	
7		4.5690	28.20	13.33	41.53	56.00	-14.47	QP	
8		4.5690	19.00	13.33	32.33	46.00	-13.67	AVG	

B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

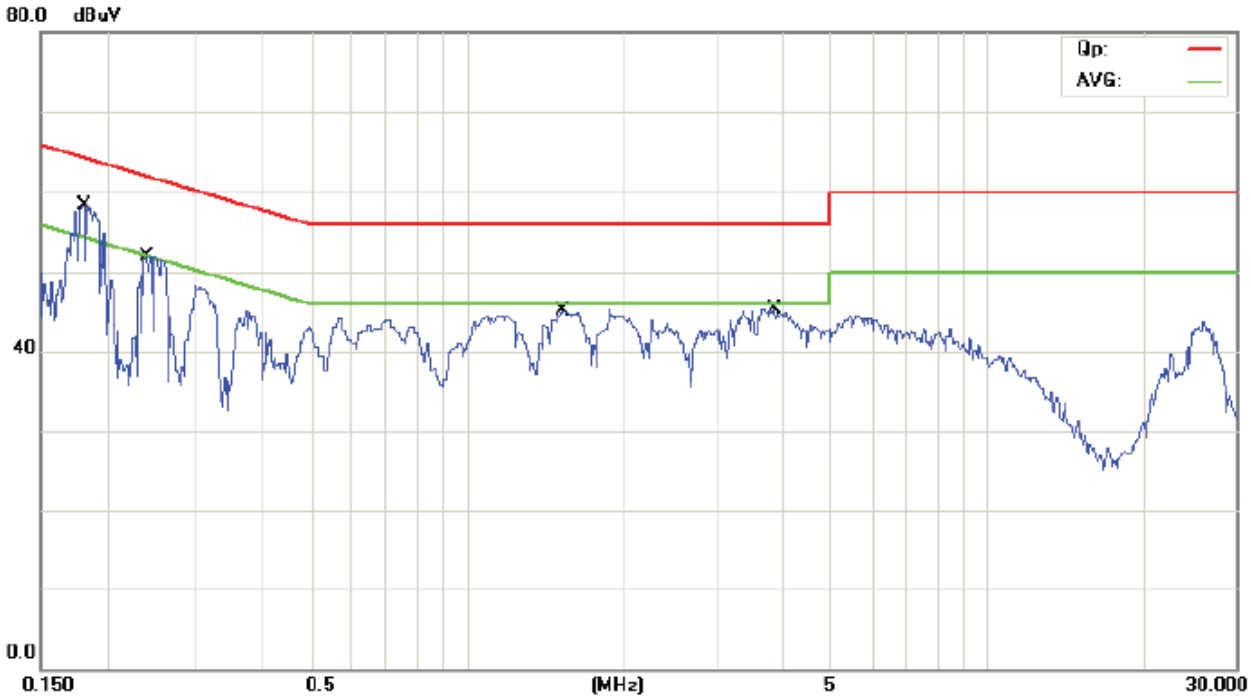
Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1810	45.50	11.03	56.53	64.44	-7.91	QP	
2		0.1810	30.20	11.03	41.23	54.44	-13.21	AVG	
3		0.2406	38.90	11.10	50.00	62.08	-12.08	QP	
4		0.2406	24.20	11.10	35.30	52.08	-16.78	AVG	
5		1.5237	32.97	12.11	45.08	56.00	-10.92	QP	
6		1.5237	18.45	12.11	30.56	46.00	-15.44	AVG	
7		3.8750	31.18	13.05	44.23	56.00	-11.77	QP	
8		3.8750	18.89	13.05	31.94	46.00	-14.06	AVG	

C: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

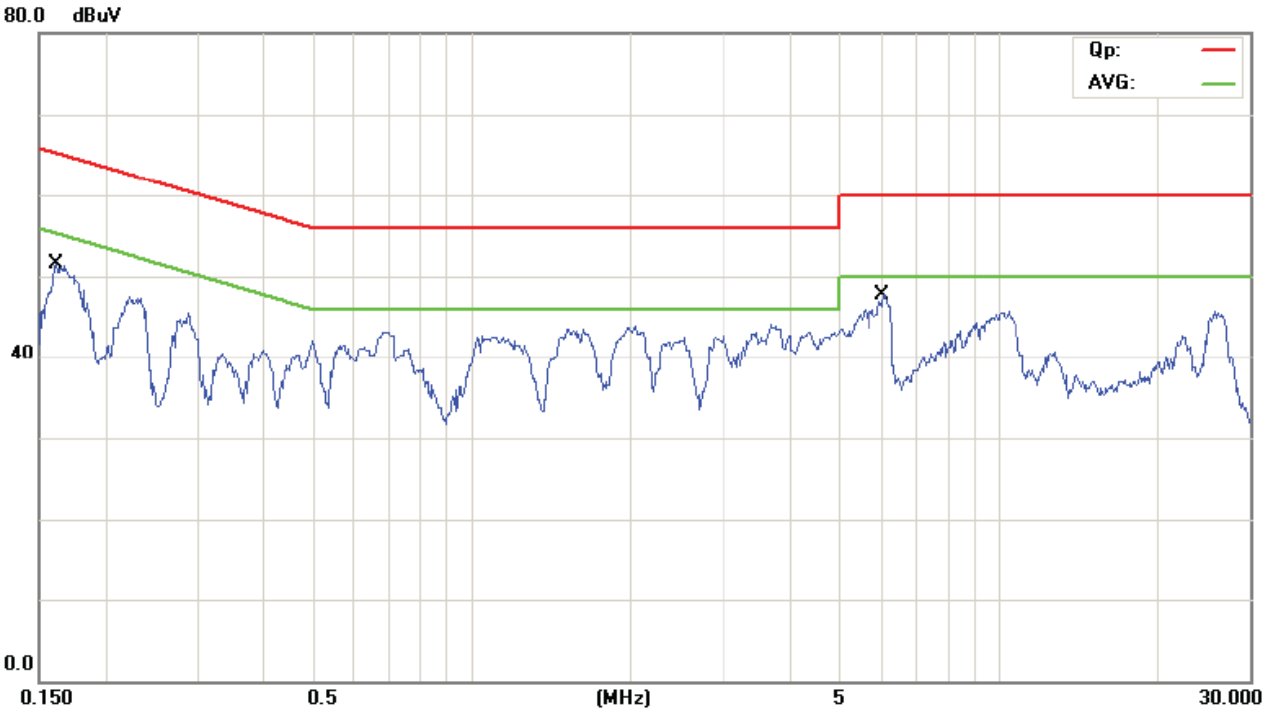
Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1612	39.51	11.01	50.52	65.40	-14.88	QP
2		0.1612	26.85	11.01	37.86	55.40	-17.54	AVG
3		6.0625	27.31	13.05	40.36	60.00	-19.64	QP
4		6.0625	18.59	13.05	31.64	50.00	-18.36	AVG

Note: Test on additional battery and worse case was recorded.

D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

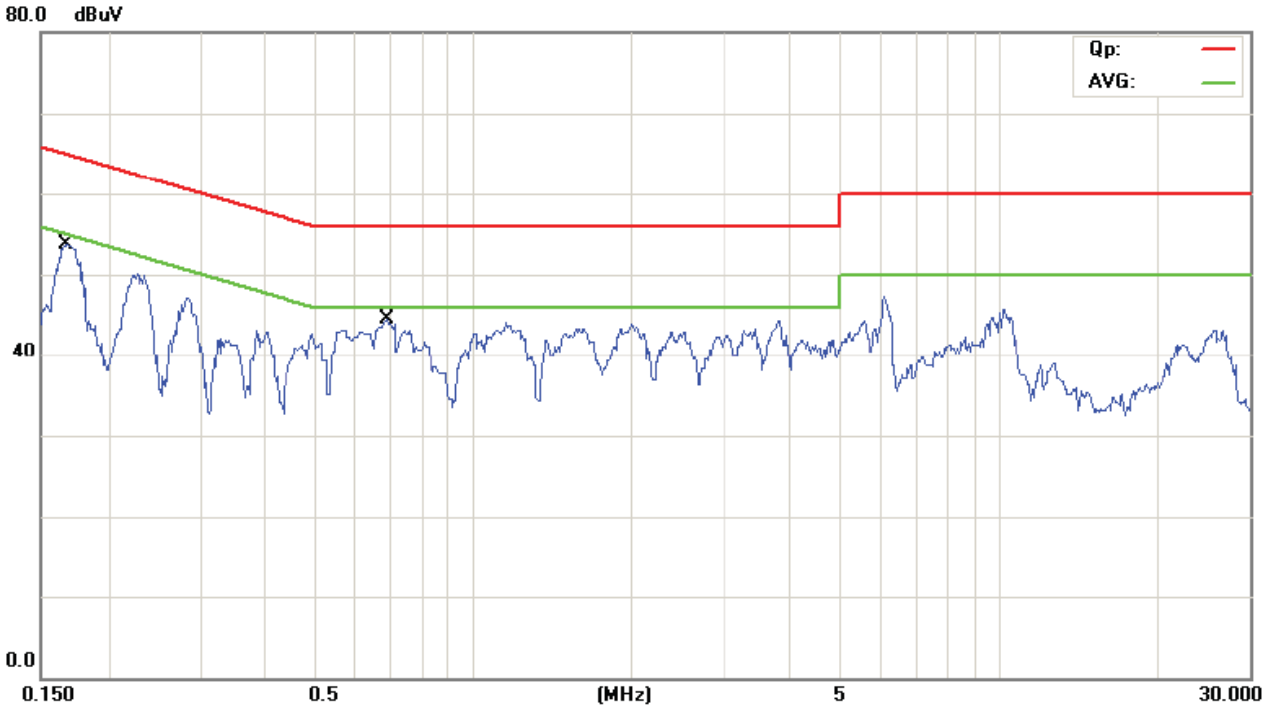
Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1683	41.64	11.02	52.66	65.04	-12.38	QP
2		0.1683	27.90	11.02	38.92	55.04	-16.12	AVG
3		0.6912	30.52	11.57	42.09	56.00	-13.91	QP
4		0.6912	18.04	11.57	29.61	46.00	-16.39	AVG

Note: Test on additional battery and worse case was recorded.

6 Radiated Emission Test

6.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Shenzhen Emtek Co., Ltd.. This site is on file with the FCC laboratory division, Registration No.406365

(2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.

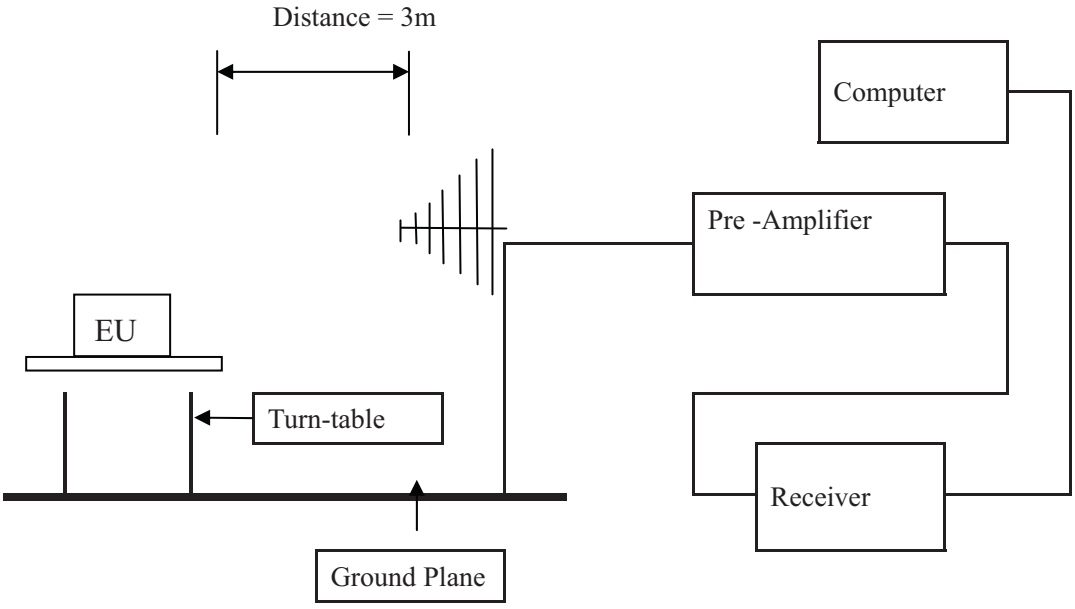
(3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.

(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.

(6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dBμV/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

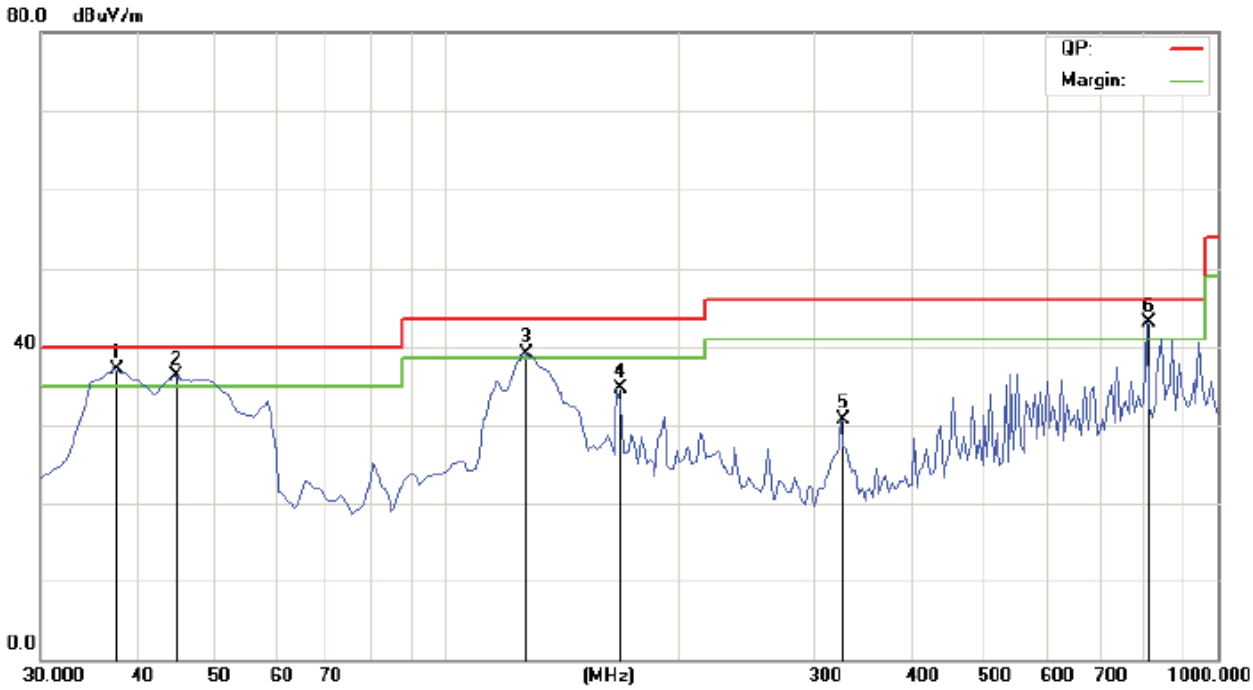
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep WIFI Transmitting

Results: **Pass**

Test Figure:

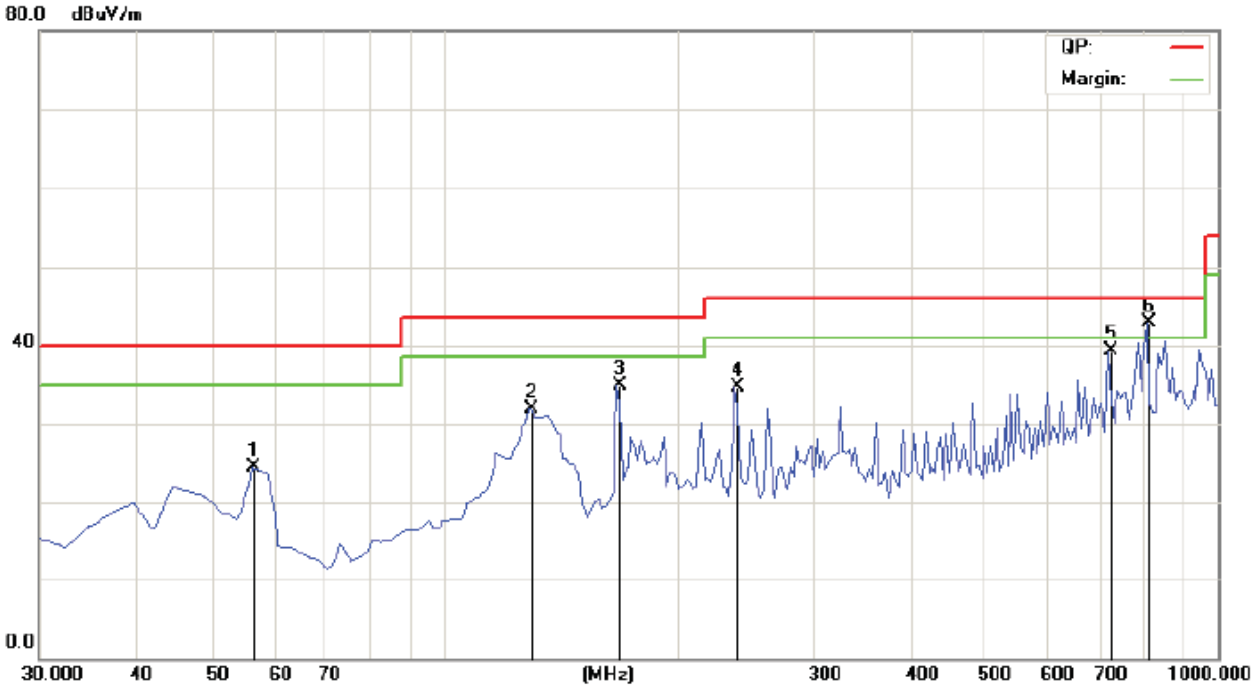
H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	37.3510	49.42	-12.36	37.06	40.00	-2.94	peak		0	
2	!	44.5500	47.90	-11.56	36.34	40.00	-3.66	peak		0	
3	!	127.0000	53.51	-14.47	39.04	43.50	-4.46	peak		0	
4		168.2250	48.74	-14.03	34.71	43.50	-8.79	peak		0	
5		325.8500	38.26	-7.62	30.64	46.00	-15.36	peak		0	
6	!	813.2750	40.29	2.73	43.02	46.00	-2.98	peak		0	

Test Figure:

V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		56.6750	36.40	-11.95	24.45	40.00	-15.55	peak		0	
2		129.4250	46.64	-14.73	31.91	43.50	-11.59	peak		0	
3		168.2250	49.00	-14.03	34.97	43.50	-8.53	peak		0	
4		238.5500	44.56	-9.87	34.69	46.00	-11.31	peak		0	
5		723.5500	38.07	1.18	39.25	46.00	-6.75	peak		0	
6	*	813.2750	40.10	2.73	42.83	46.00	-3.17	peak		0	

Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

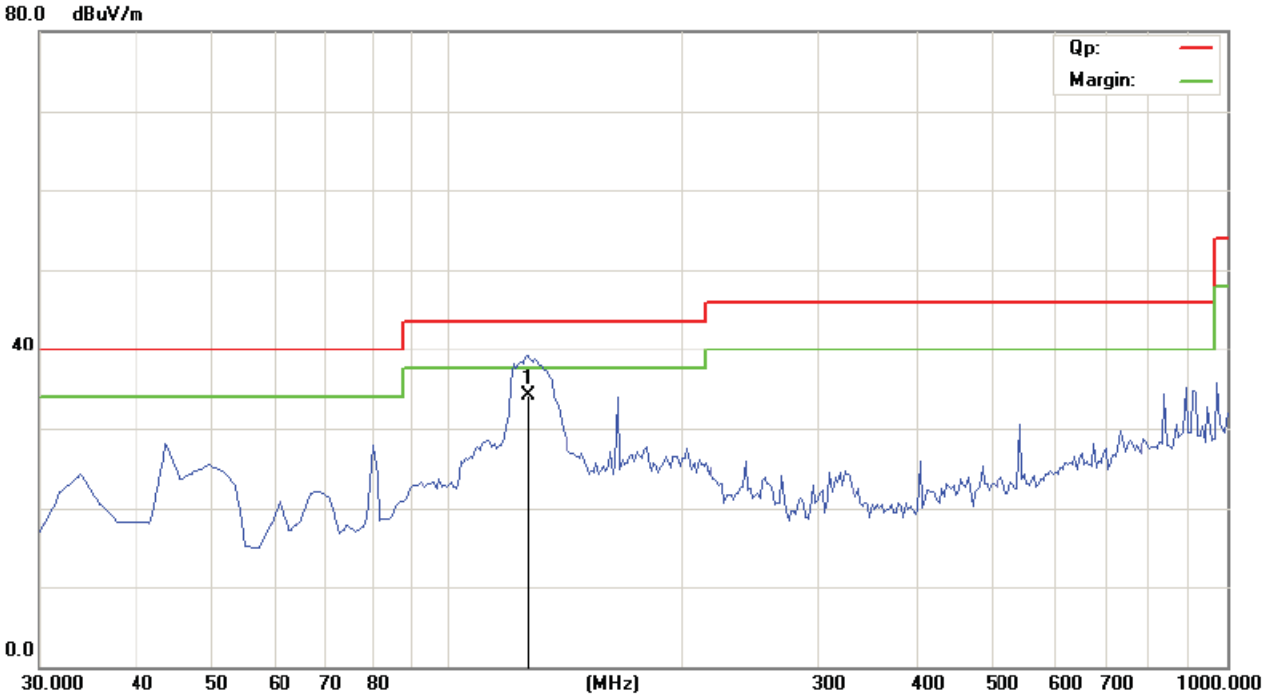
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep WIFI Transmitting

Results: **Pass**

Test Figure:

H

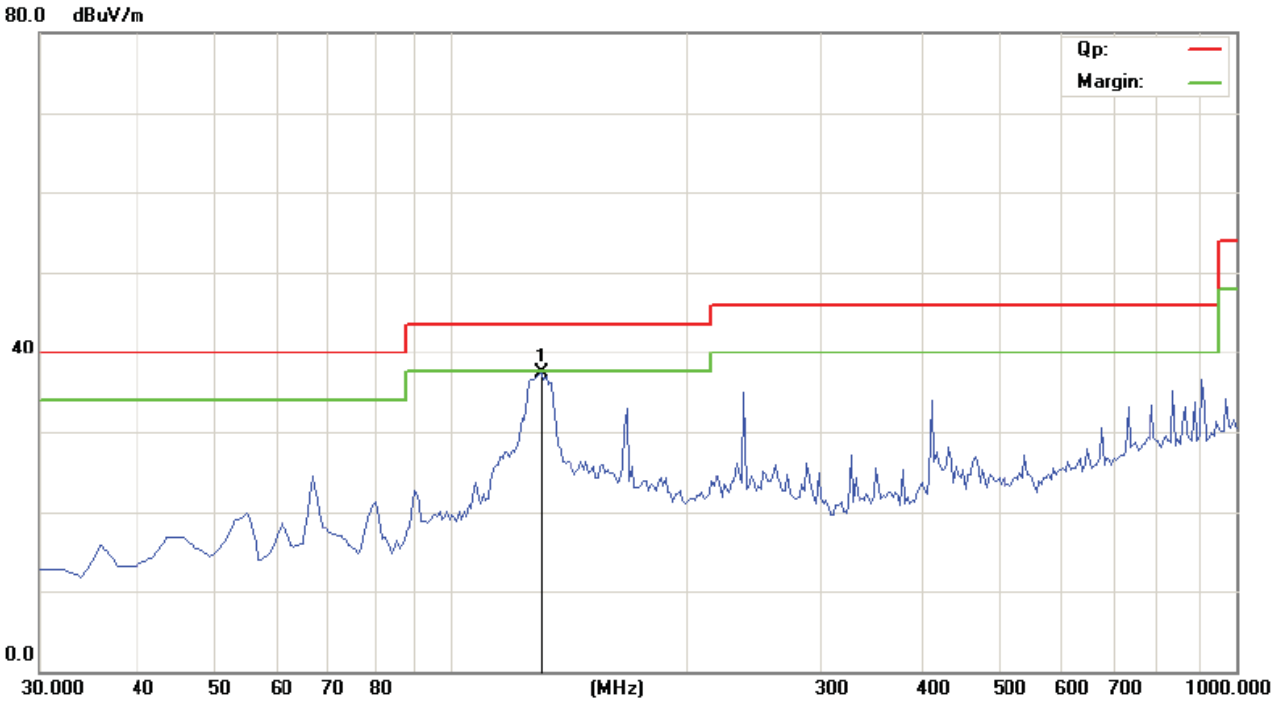


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	*	127.1944	48.68	-14.49	34.19	43.50	-9.31

Note: Test on additional battery and worse case was recorded

Test Figure:

V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	*	131.0822	52.22	-14.86	37.36	43.50	-6.14

Note: Test on additional battery and worse case was recorded

Operation Mode: Transmitting under CH01 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2412.00	91.76（PK）	H	Fundamental Frequency
2412.00	91.26（PK）	V	
4824.00	47.32（PK）	H	--
4824.00	49.09（PK）	V	
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16884	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11b mode at 11Mbps

Operation Mode: Transmitting under CH06 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2437.00	92.63（PK）	H	Fundamental Frequency
2437.00	62.65（PK）	V	
4874.00	47.62（PK）	H	--
4874.00	46.58（PK）	V	
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11b mode at 11Mbps

Operation Mode: Transmitting under CH11 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2462.00	92.24（PK）	H	Fundamental Frequency
2462.00	91.67（PK）	V	
4924	47.29（PK）	H	--
4924	48.63（PK）	V	
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

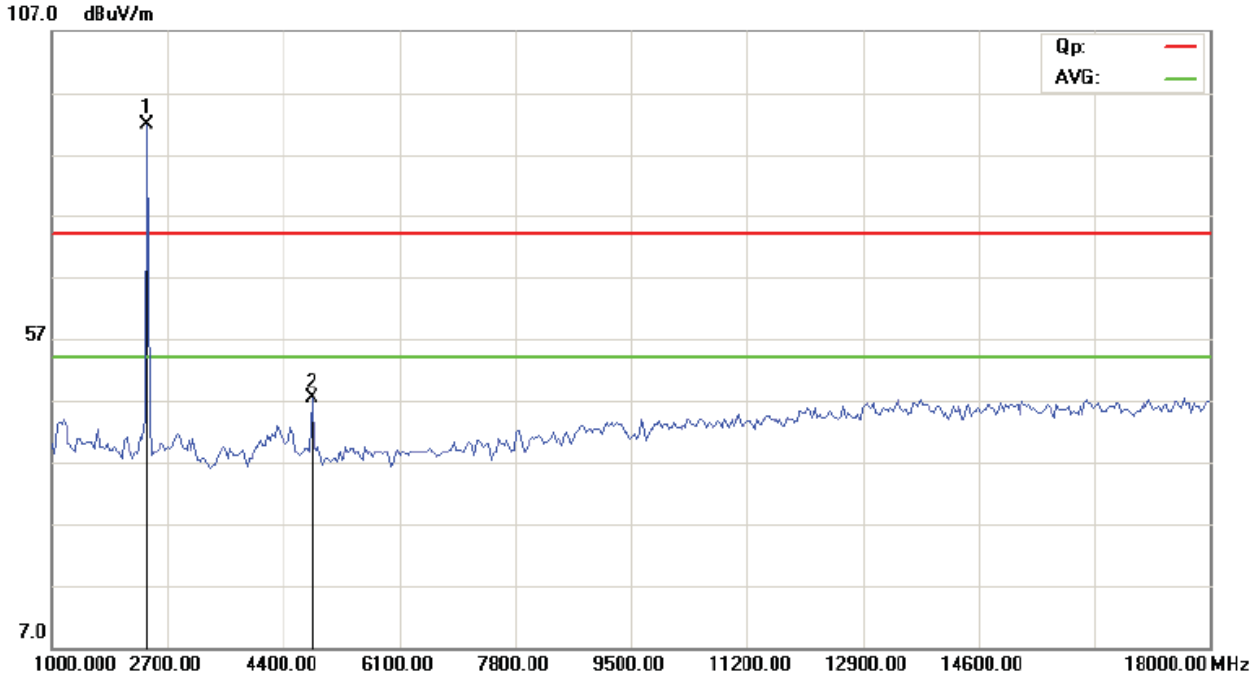
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

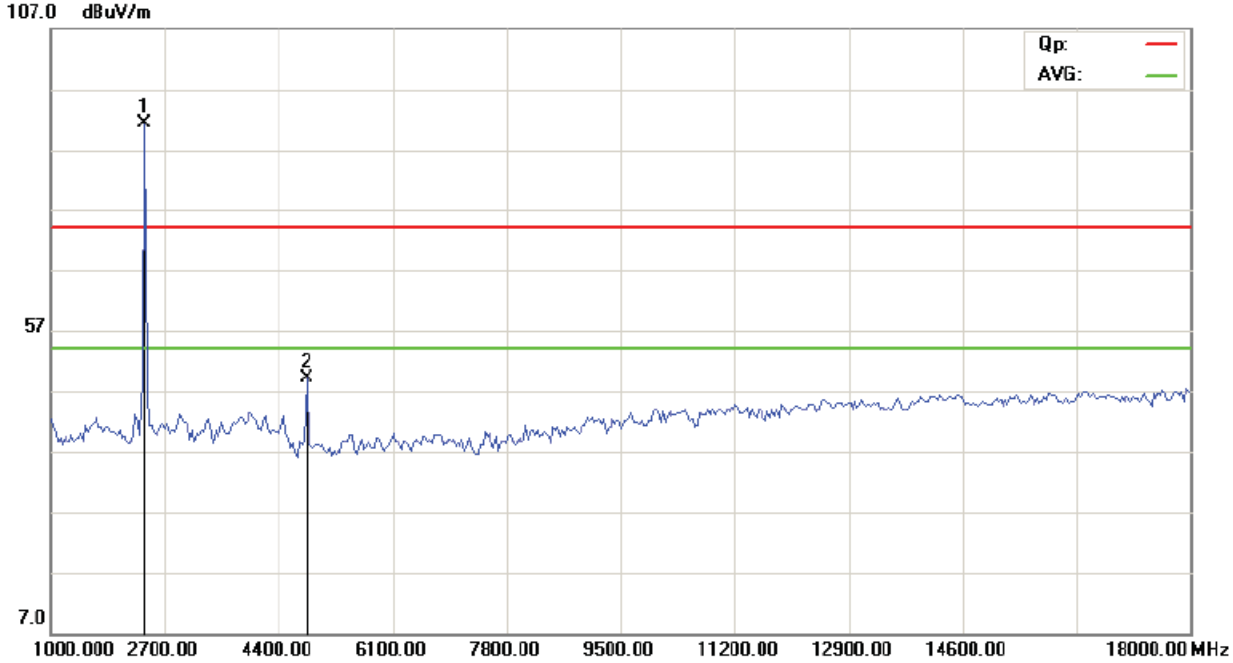
3. For 802.11b mode at 11Mbps

Please refer to the following test plots for details:

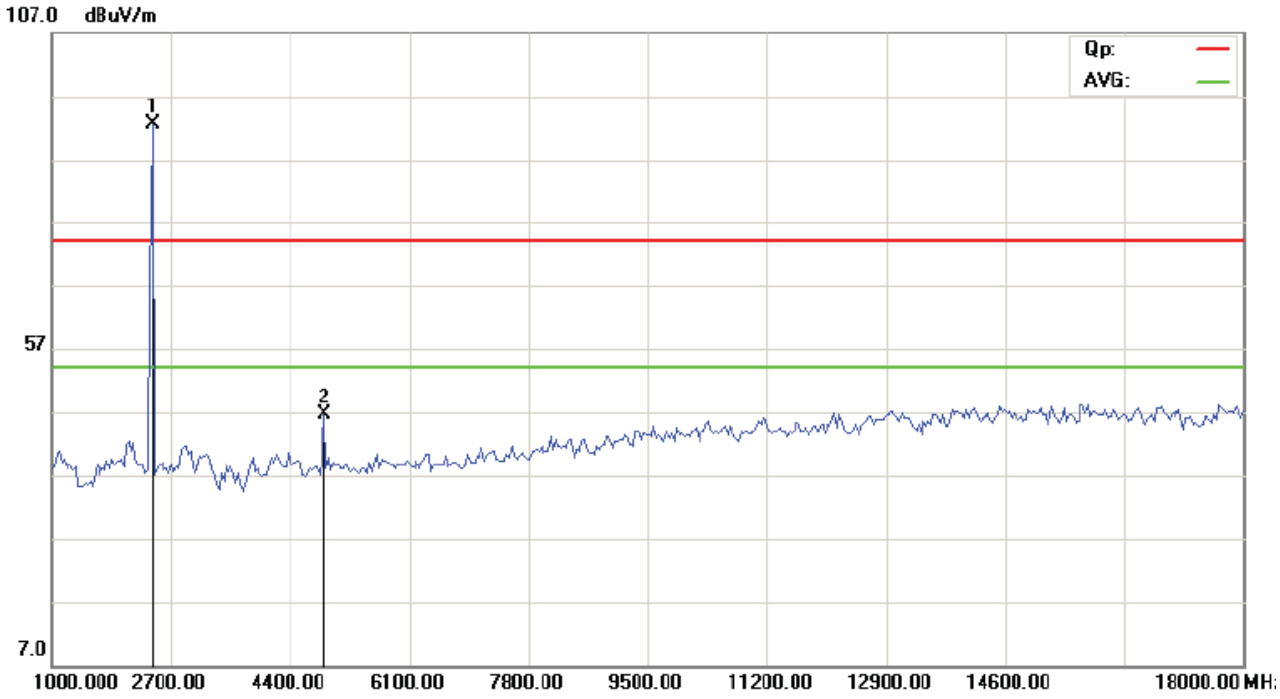
CH01 at 11Mbps: Horizontal



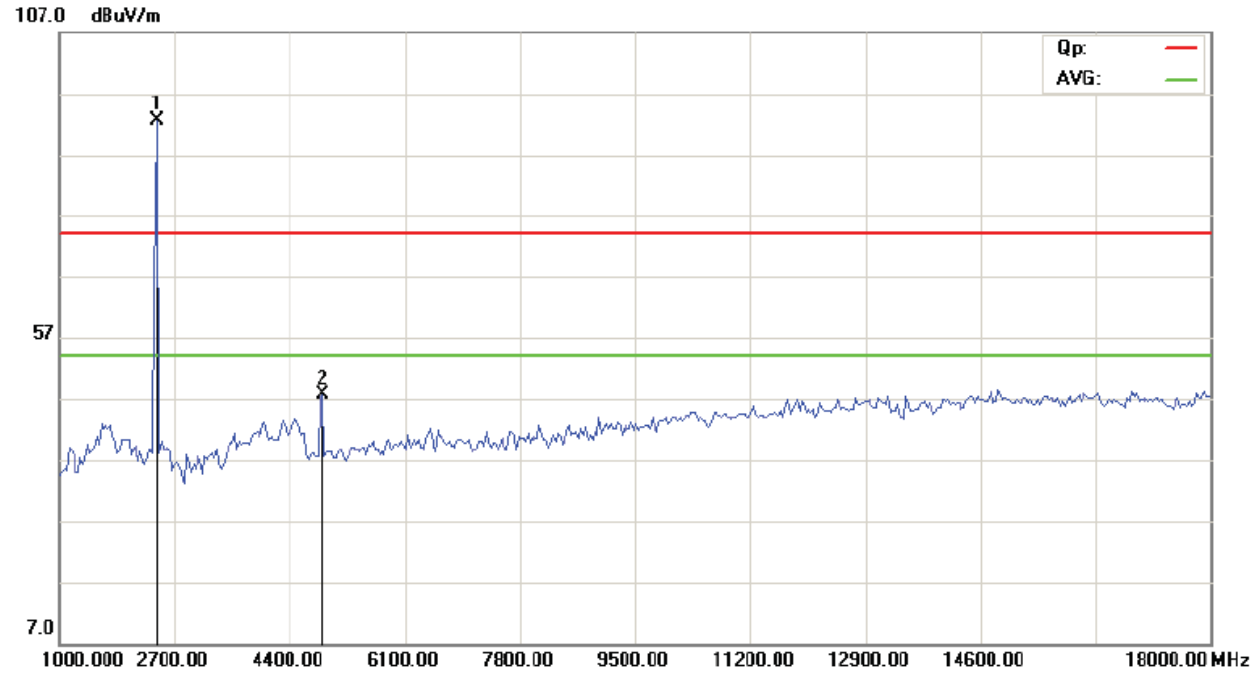
CH01 at 11Mbps: Vertical



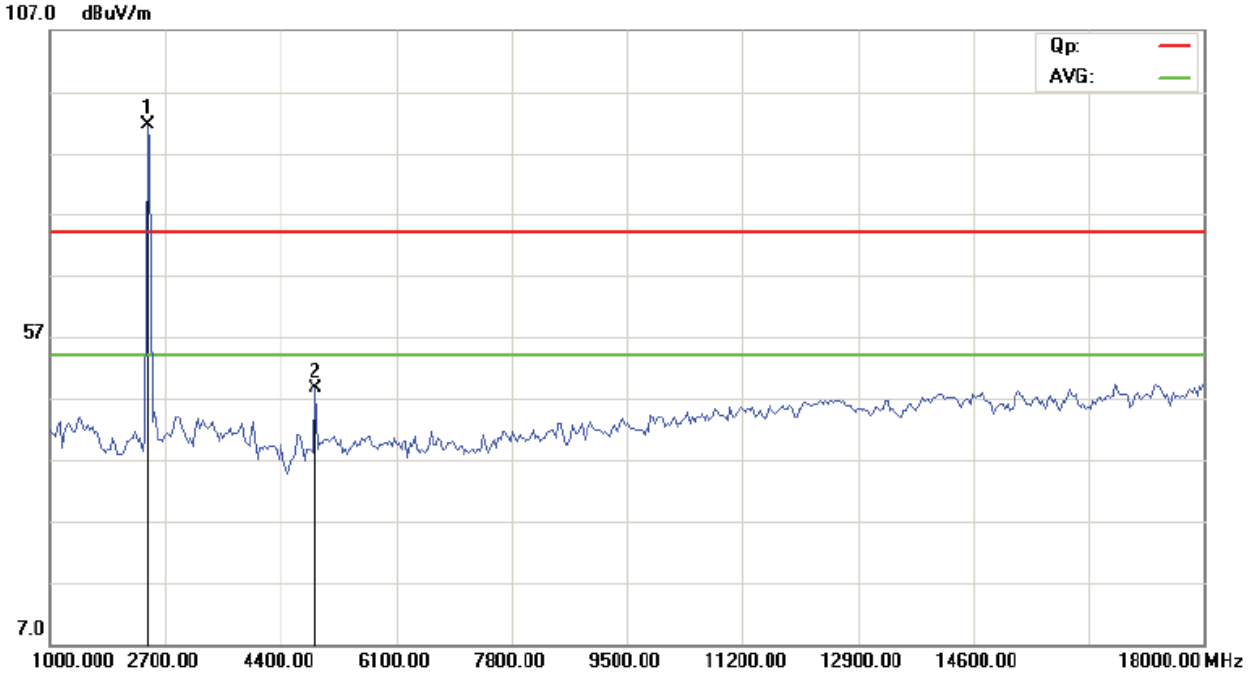
CH06 at 11Mbps: Vertical



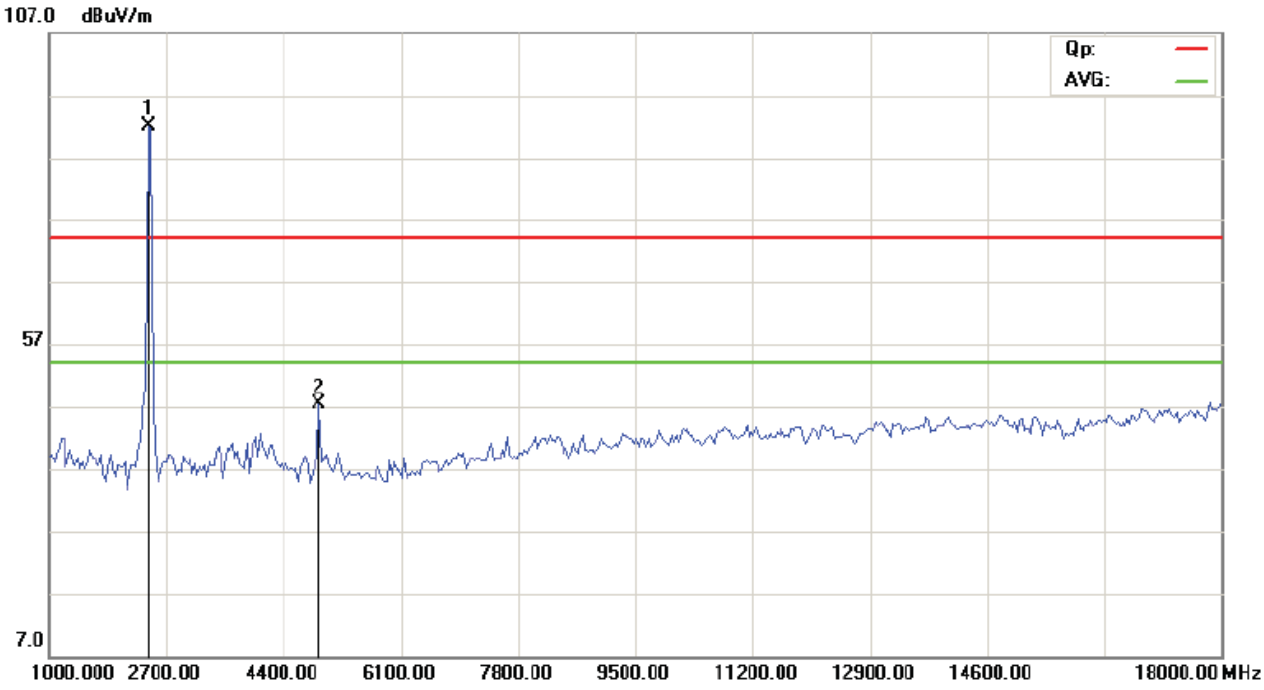
CH06 at 11Mbps: Horizontal



CH11 at 11Mbps: Vertical



CH11at 11Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

Operation Mode: Transmitting under CH01 for 11g at 54 Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2412.00	91.39（PK）	H	Fundamental Frequency
2412.00	91.69（PK）	V	
4824.00	48.78（PK）	H	--
4824.00	49.32（PK）	V	
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11g mode 54Mbps

Operation Mode: Transmitting under CH06 for 11g at 54 Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2437.00	91.47（PK）	H	Fundamental Frequency
2437.00	91.44（PK）	V	
4874.00	47.97（PK）	H	--
4874.00	48.32（PK）	V	
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11g mode 54Mbps

Operation Mode: Transmitting under CH11 for 11g at 54 Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2462.00	90.93（PK）	H	Fundamental Frequency
2462.00	92.75（PK）	V	
4924	48.08（PK）	H	74(Peak)/ 54(AV)
4924	47.14（PK）	V	74(Peak)/ 54(AV)
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

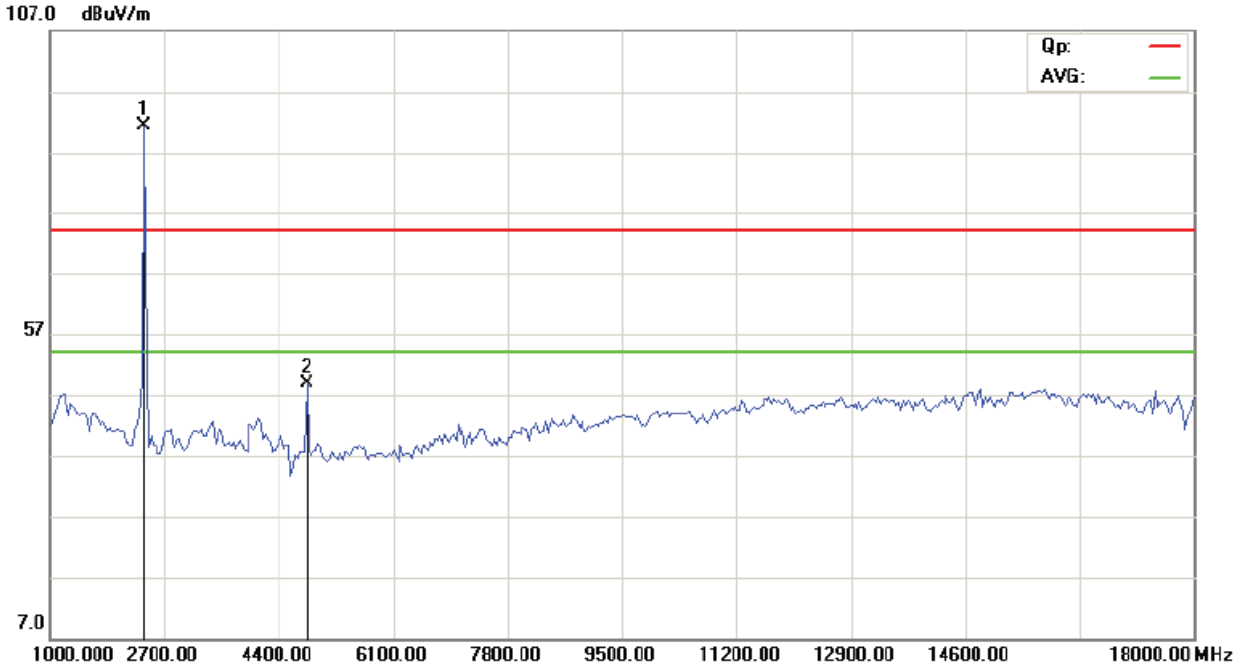
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

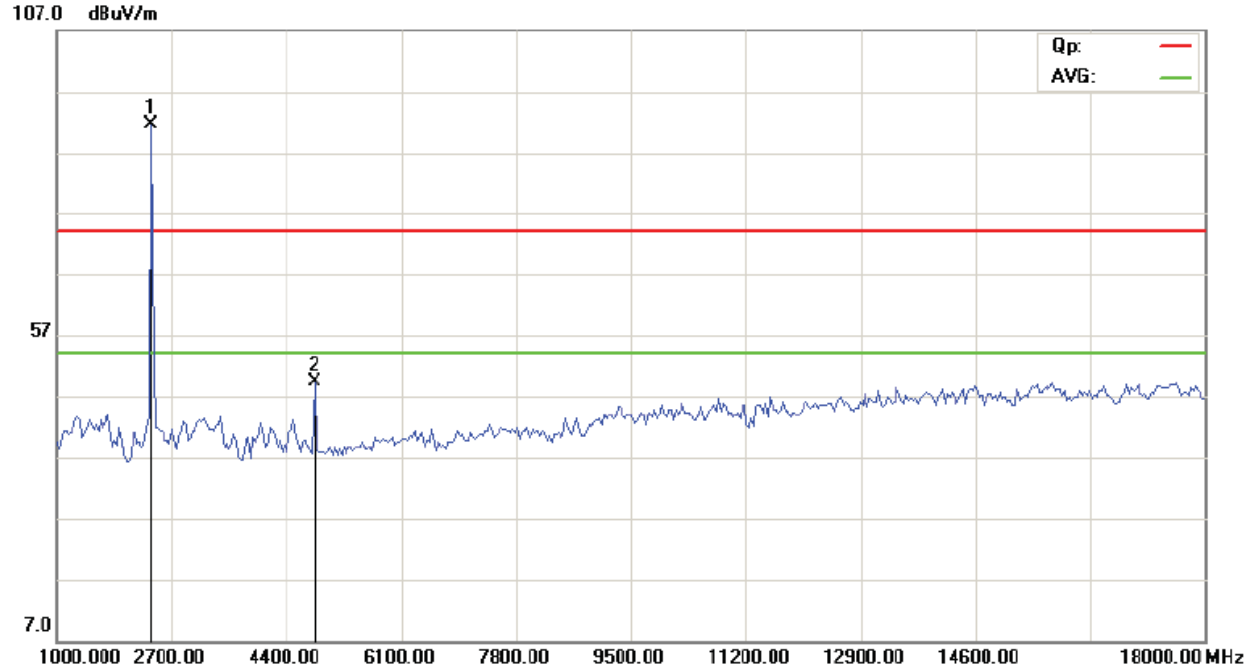
3. For 802.11g mode 54Mbps

Please refer to the following test plots for details:

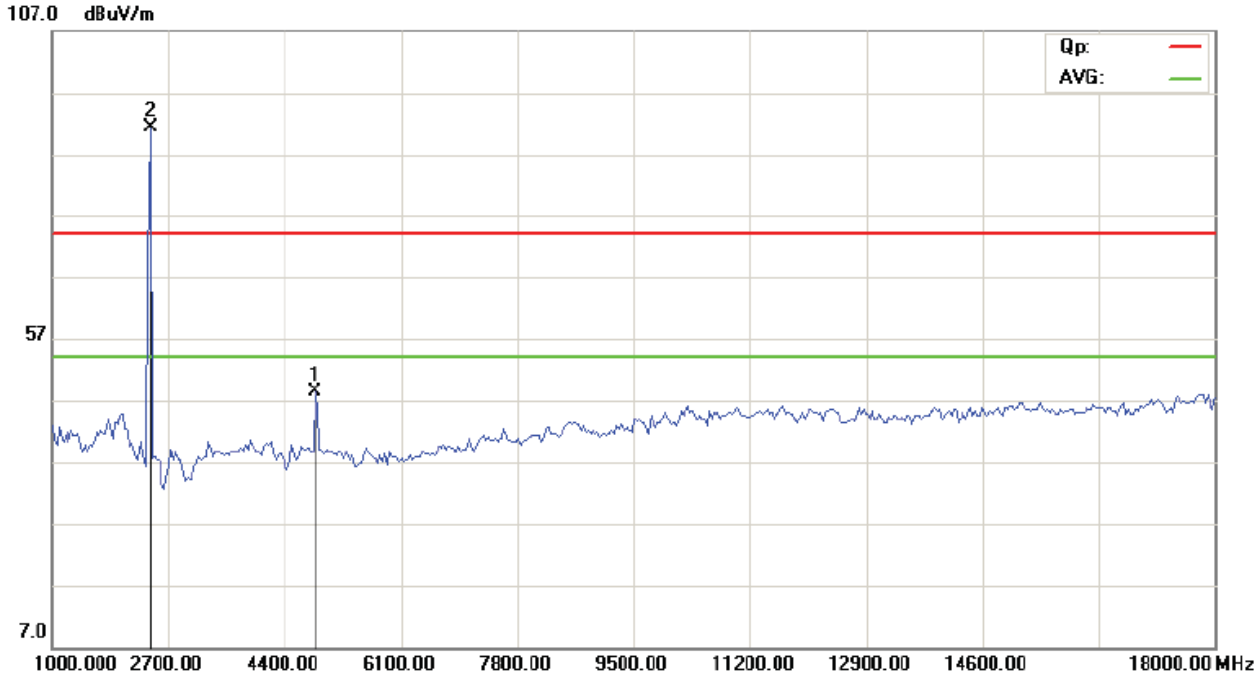
CH01 at 54Mbps: Horizontal



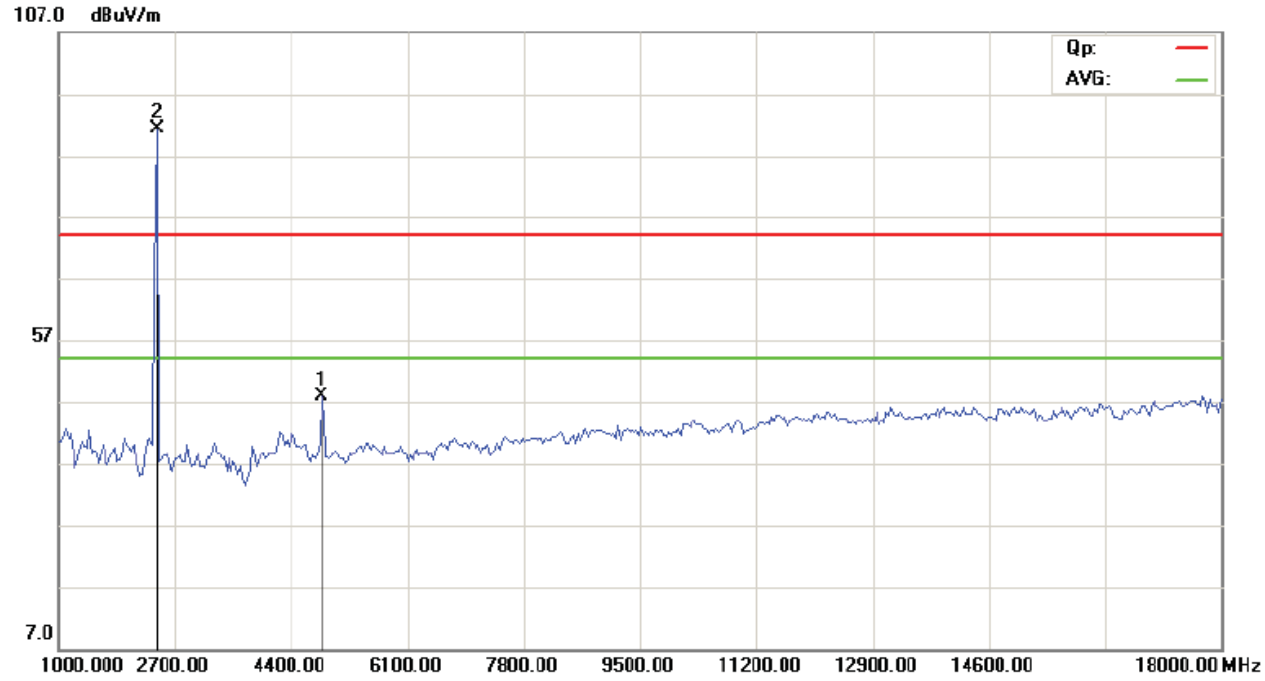
CH01 at 54Mbps: Vertical



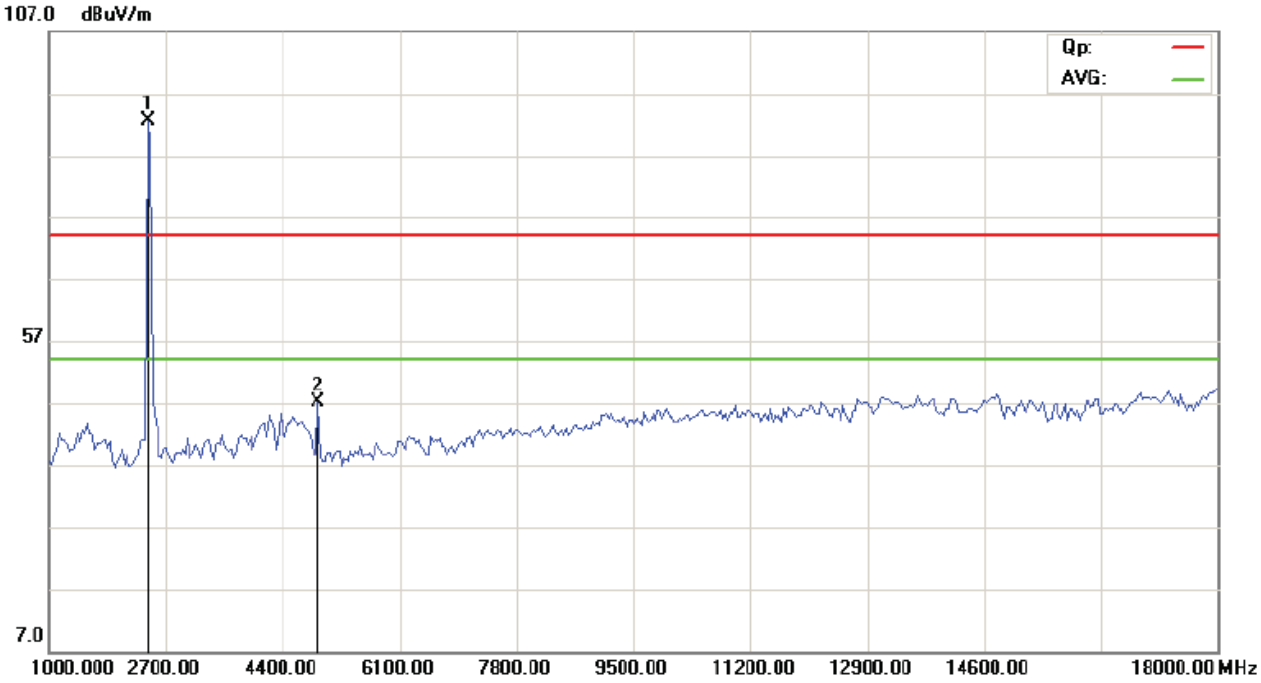
CH06 at 54Mbps: Vertical



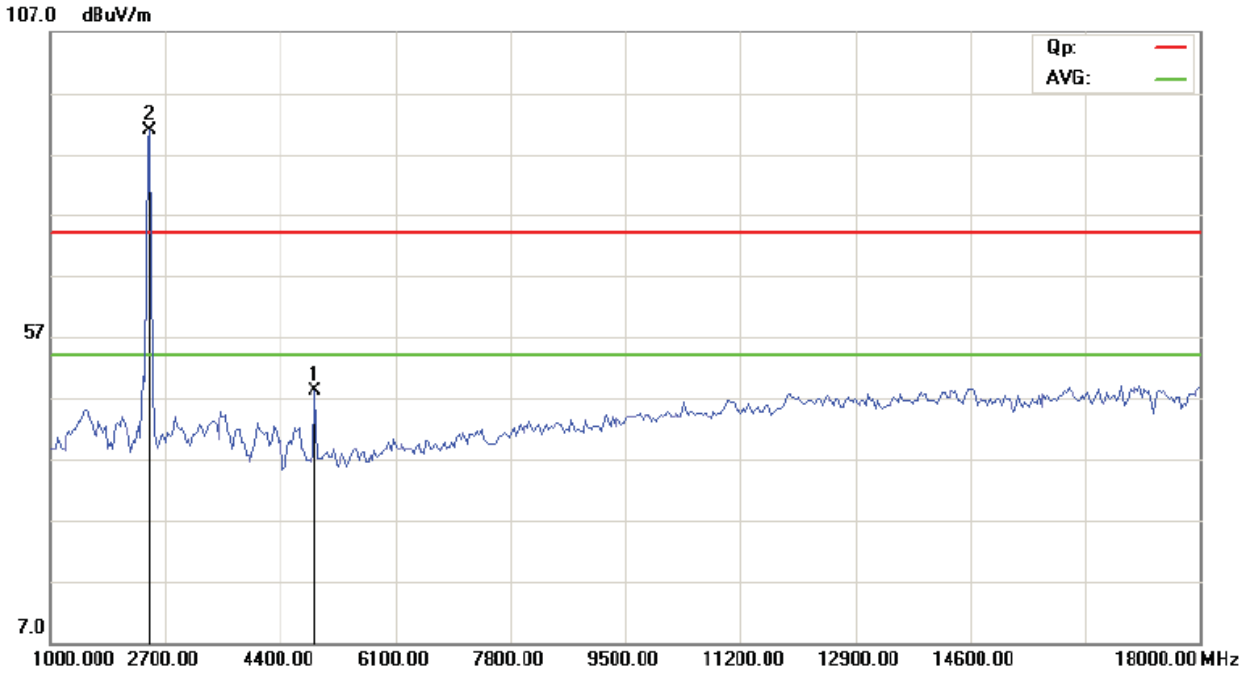
CH06 at 54Mbps: Horizontal



CH11 at 54Mbps: Vertical



CH11 at 54 Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

Operation Mode: Transmitting under CH01 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2412.00	92.88（PK）	H	Fundamental Frequency
2412.00	92.42（PK）	V	
4824.00	48.85（PK）	H	74(Peak)/ 54(AV)
4824.00	47.59（PK）	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11n HT20 at 65Mbps

Operation Mode: Transmitting under CH06 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2437.00	91.55（PK）	H	Fundamental Frequency
2437.00	91.51（PK）	V	
4874.00	46.54（PK）	H	74(Peak)/ 54(AV)
4874.00	46.69（PK）	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802. 11n HT20 at 65bps

Operation Mode: Transmitting under CH11 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2462.00	92.12（PK）	H	Fundamental Frequency
2462.00	92.31（PK）	V	
4924	47.69（PK）	H	74(Peak)/ 54(AV)
4924	48.14（PK）	V	74(Peak)/ 54(AV)
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

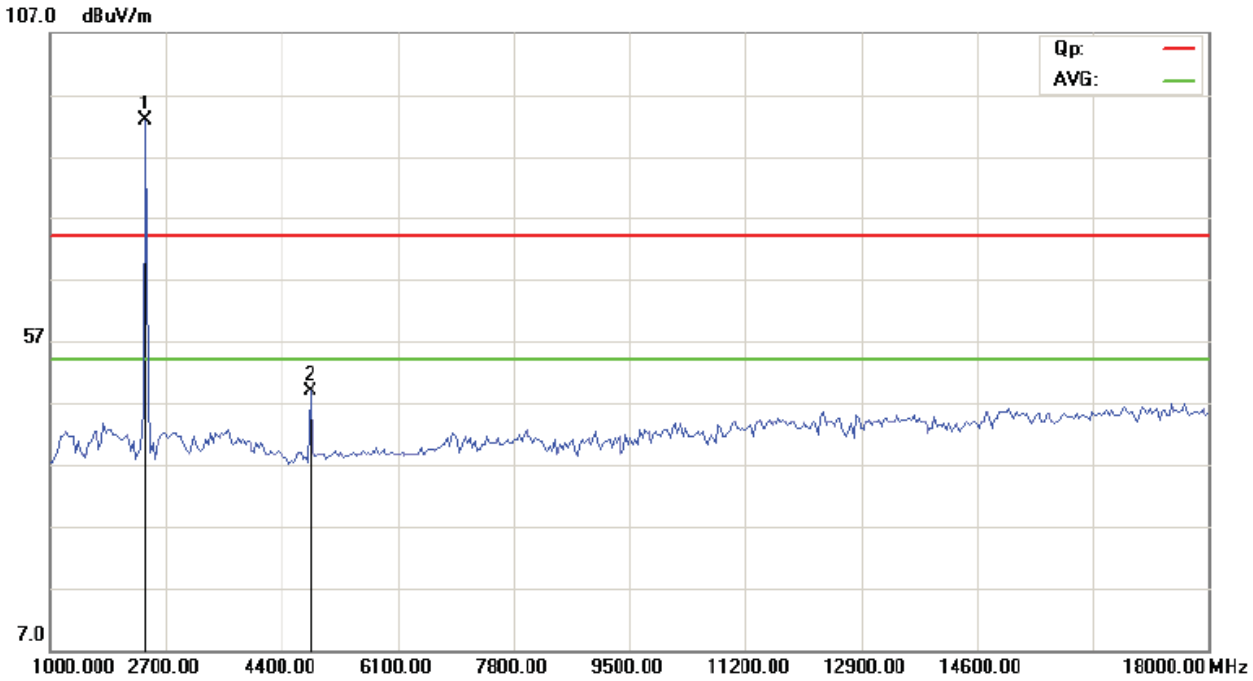
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

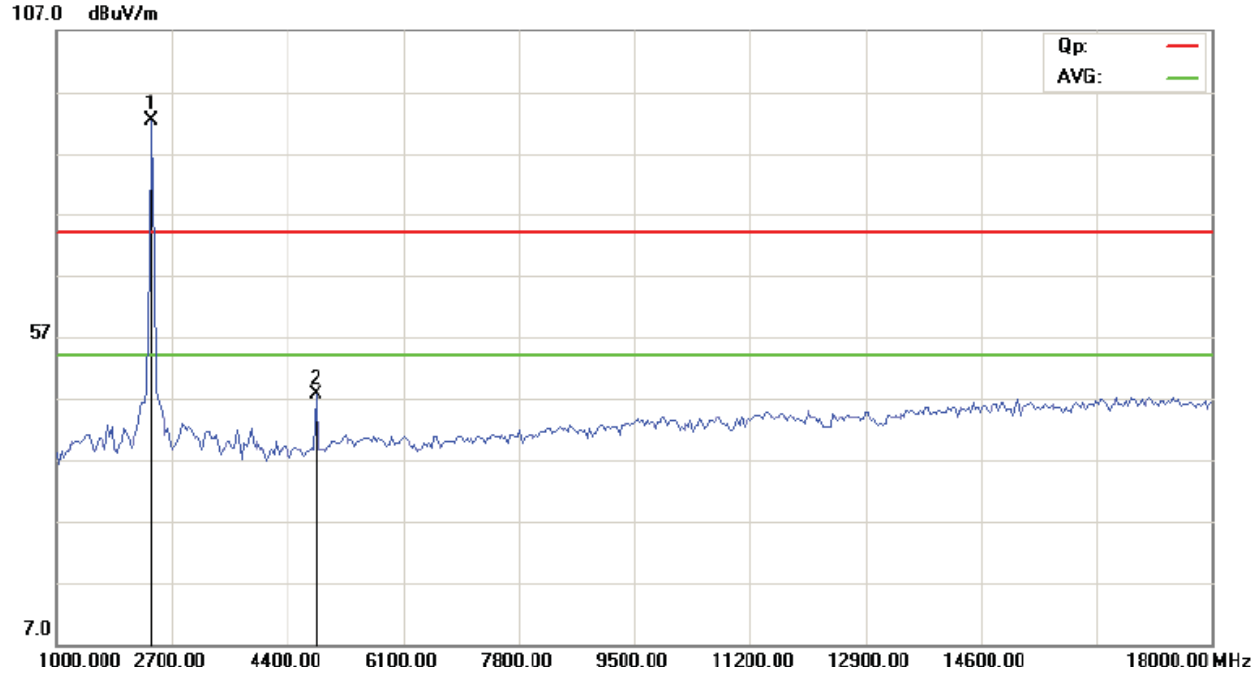
3. For 802. 11n HT20 at 65bps

Please refer to the following test plots for details:

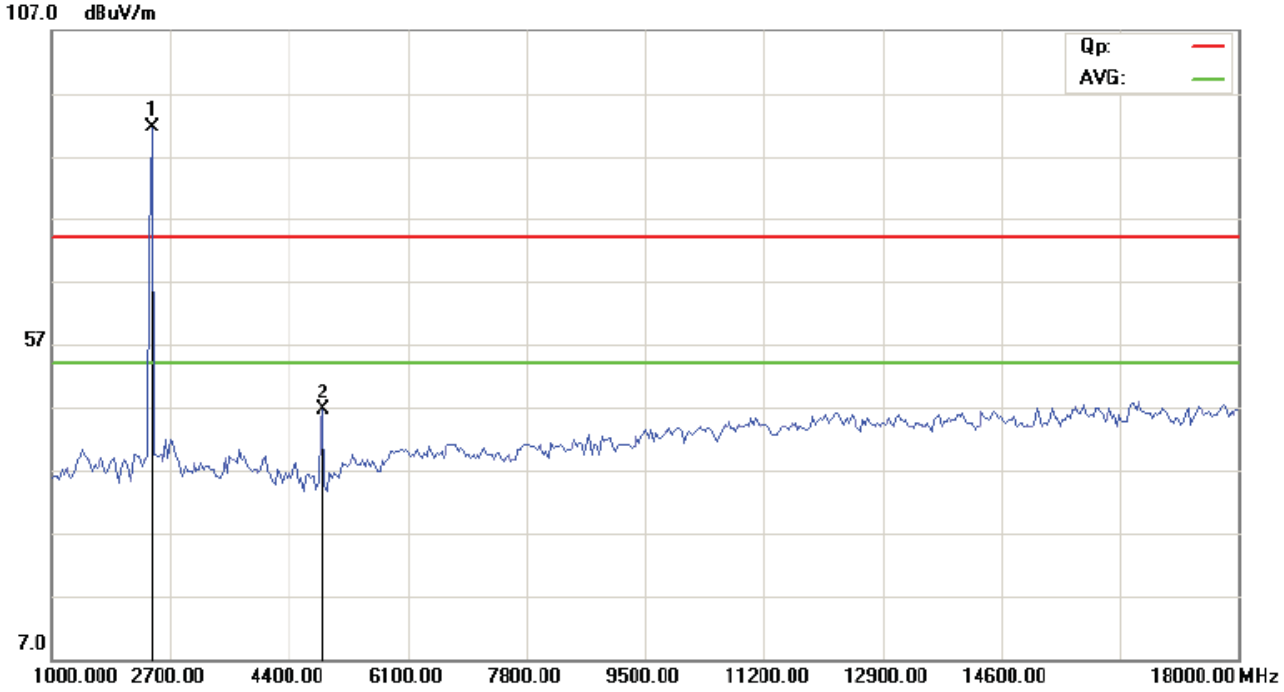
CH01 at 11n HT20: **Horizontal**



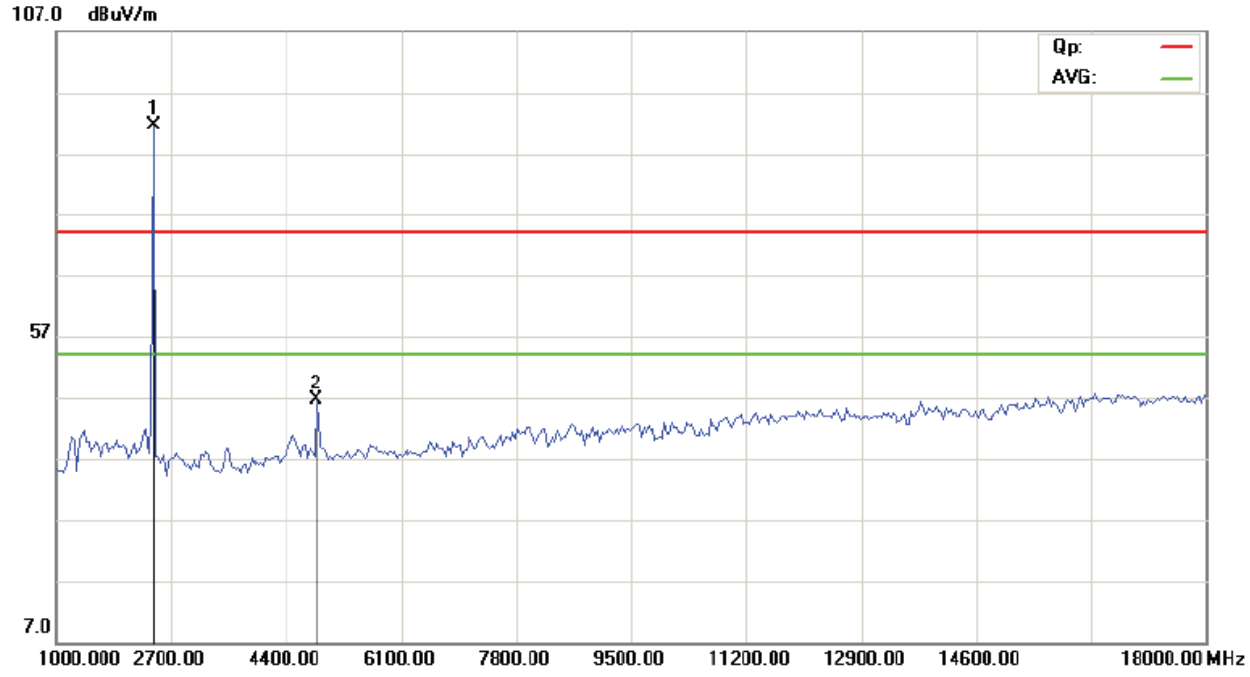
CH01 at 11n HT20: Vertical



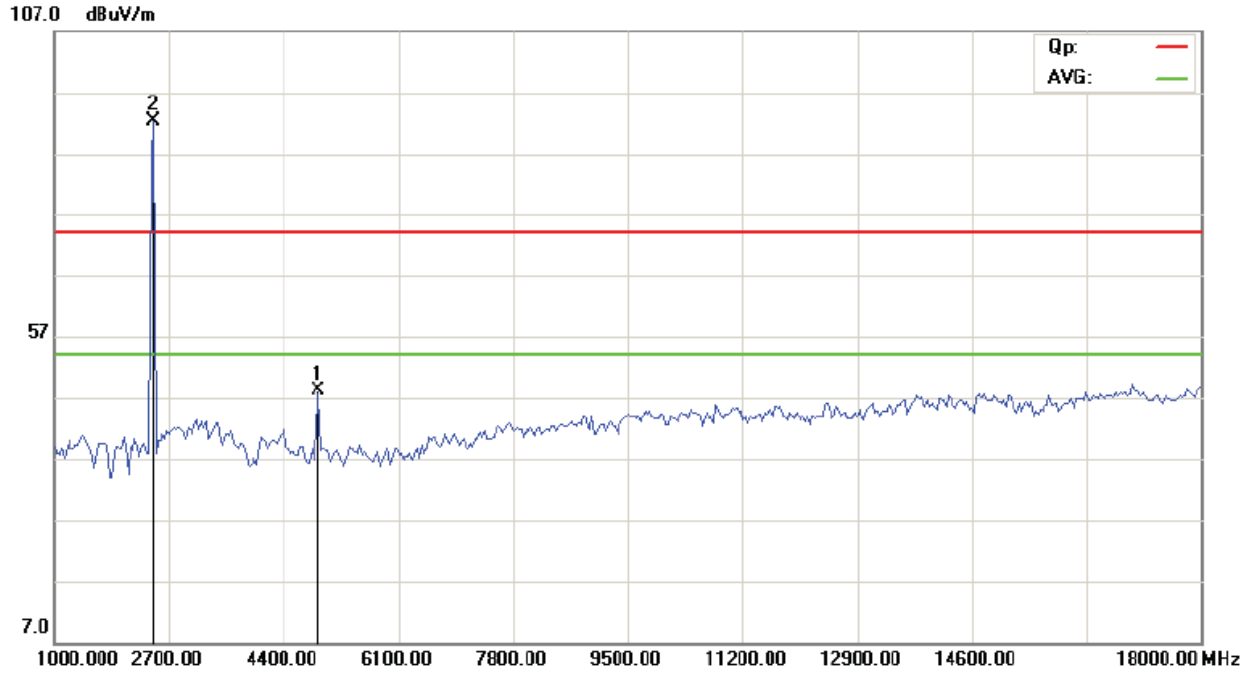
CH06 at 11n HT20: Vertical



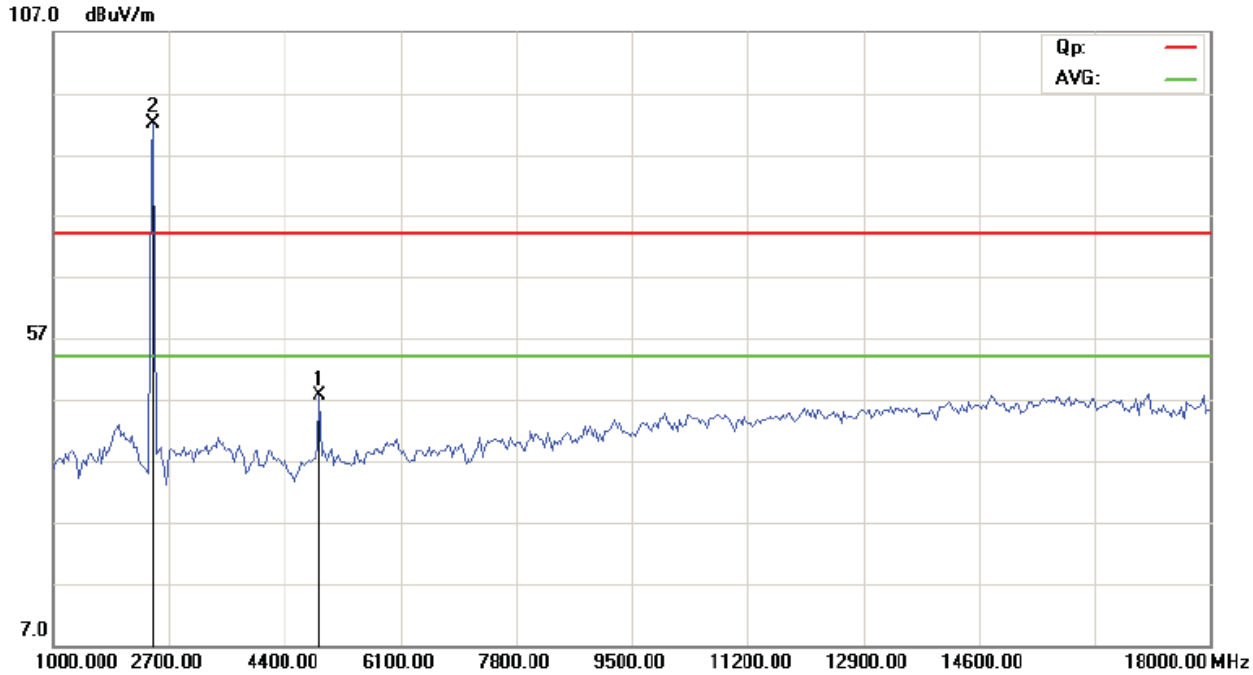
CH06 at 11n HT20: Horizontal



CH11 at 11n HT20: Vertical



CH11 at 11n HT20: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

Operation Mode: Transmitting under CH01 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2422.00	87.01（PK）	H	Fundamental Frequency
2422.00	86.96（PK）	V	
4844.00	47.51（PK）	H	74(Peak)/ 54(AV)
4844.00	48.77（PK）	V	
7266.00	--	H/V	74(Peak)/ 54(AV)
9688.00	--	H/V	74(Peak)/ 54(AV)
12110	--	H/V	74(Peak)/ 54(AV)
14532	--	H/V	74(Peak)/ 54(AV)
16954	--	H/V	74(Peak)/ 54(AV)
19376	--	H/V	74(Peak)/ 54(AV)
21798	--	H/V	74(Peak)/ 54(AV)
24220	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11n HT40 at 65bps

Operation Mode: Transmitting under CH04 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2437.00	87.72（PK）	H	Fundamental Frequency
2437.00	86.15（PK）	V	
4874.00	46.68（PK）	H	74(Peak)/ 54(AV)
4874.00	48.03（PK）	V	
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802. 11n HT40 at 65bps

Operation Mode: Transmitting under CH7 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
2452.00	87.85（PK）	H	Fundamental Frequency
2452.00	87.56（PK）	V	
4904	46.73（PK）	H	74(Peak)/ 54(AV)
4904	--	V	
7356	--	H/V	74(Peak)/ 54(AV)
9808	--	H/V	74(Peak)/ 54(AV)
12260	--	H/V	74(Peak)/ 54(AV)
14712	--	H/V	74(Peak)/ 54(AV)
17164	--	H/V	74(Peak)/ 54(AV)
19616	--	H/V	74(Peak)/ 54(AV)
22068	--	H/V	74(Peak)/ 54(AV)
24520	--	H/V	74(Peak)/ 54(AV)

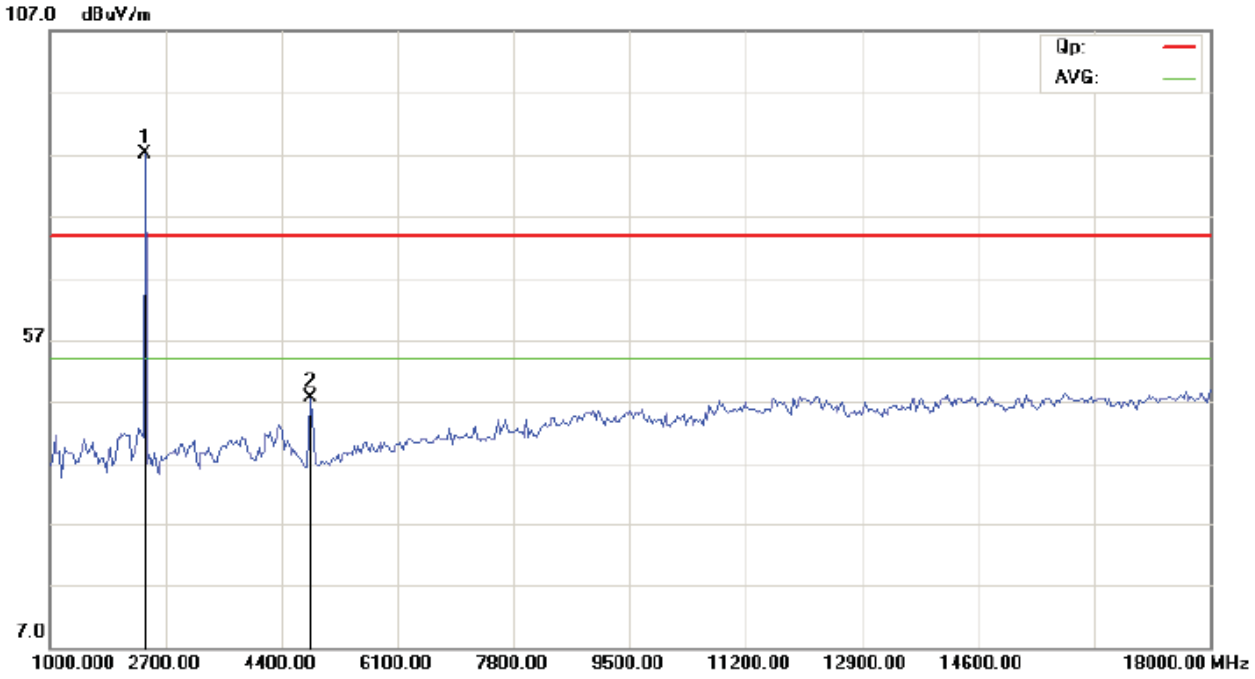
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

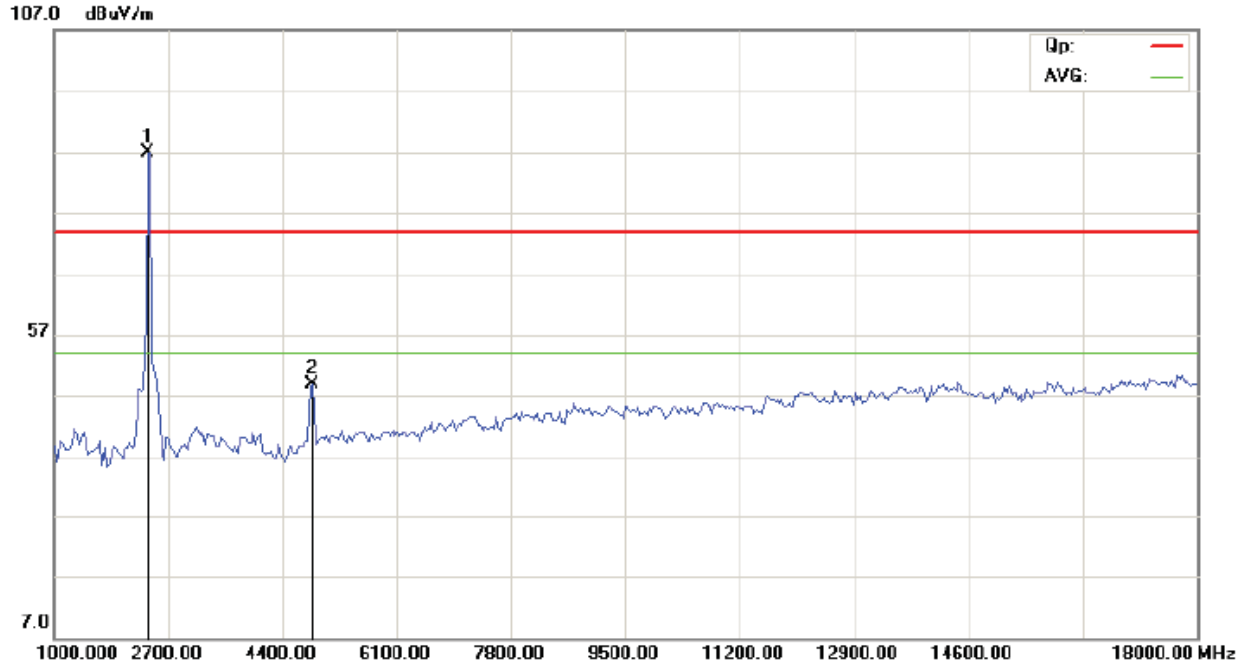
3. For 802. 11n HT40 at 65bps

Please refer to the following test plots for details:

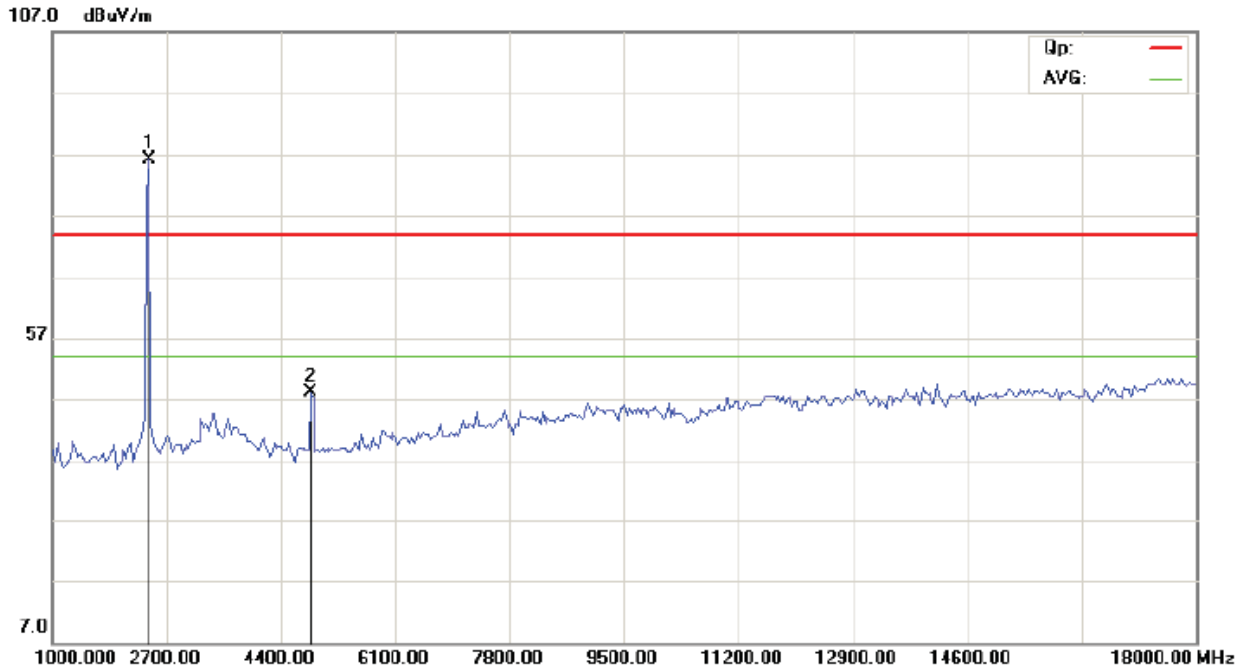
CH01 at 11n HT40: **Horizontal**



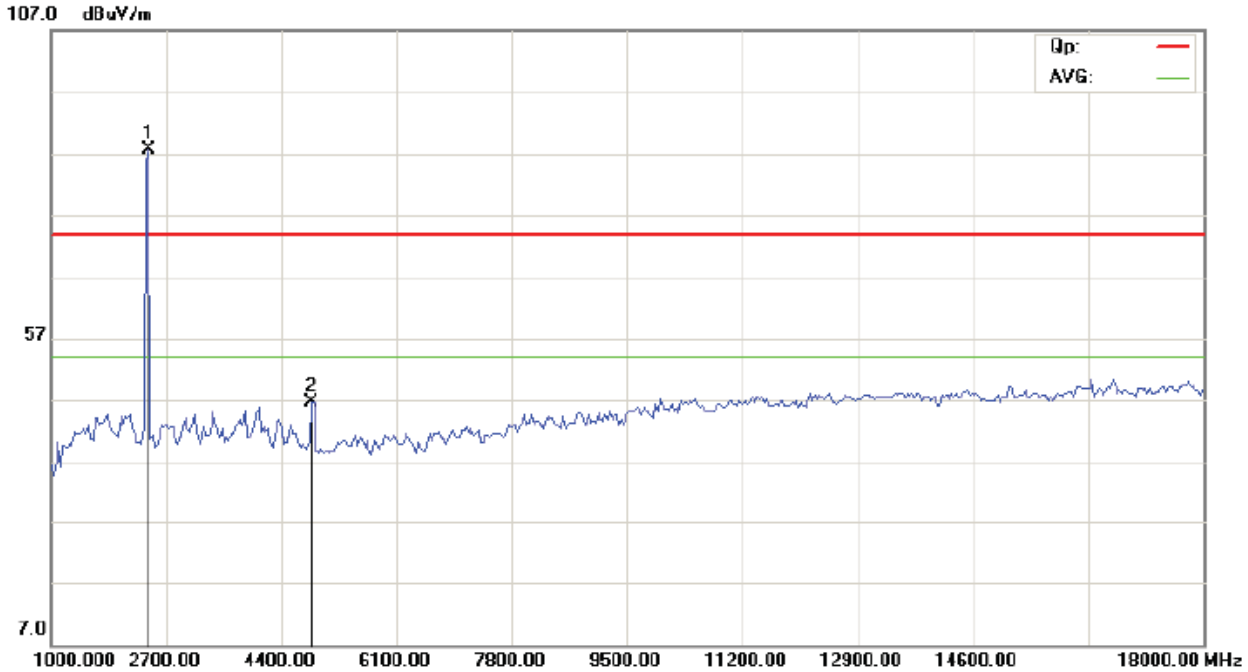
CH01 at 11n HT40: Vertical



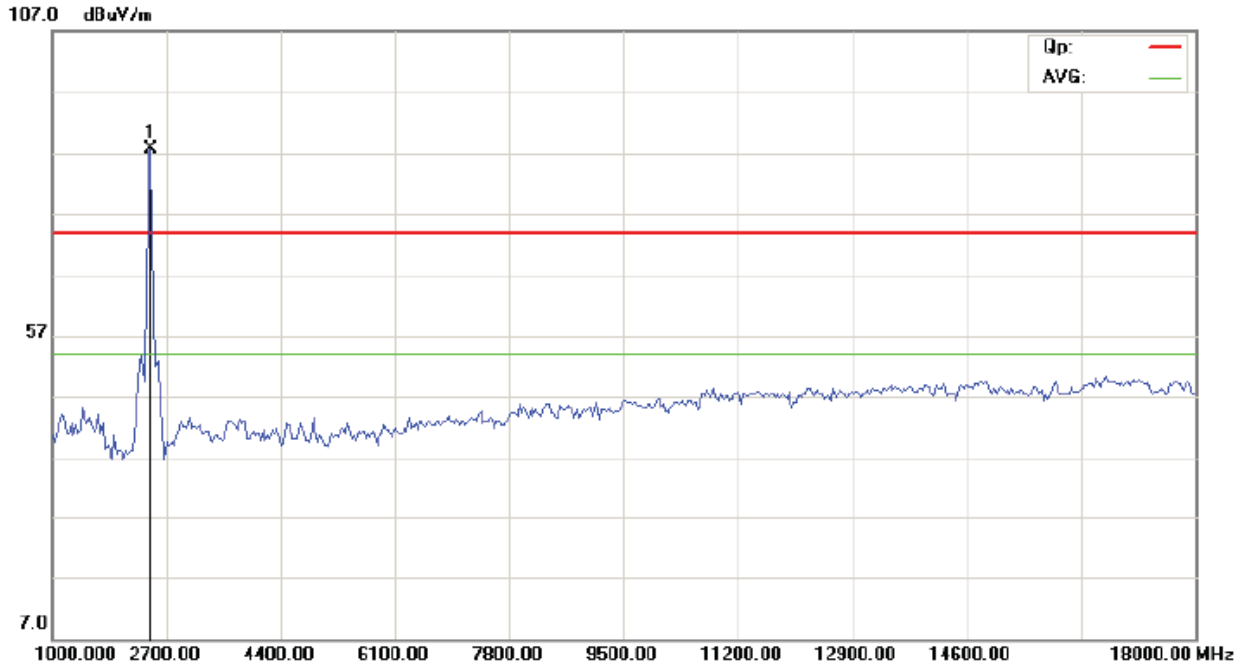
CH04 at 11n HT40: Vertical



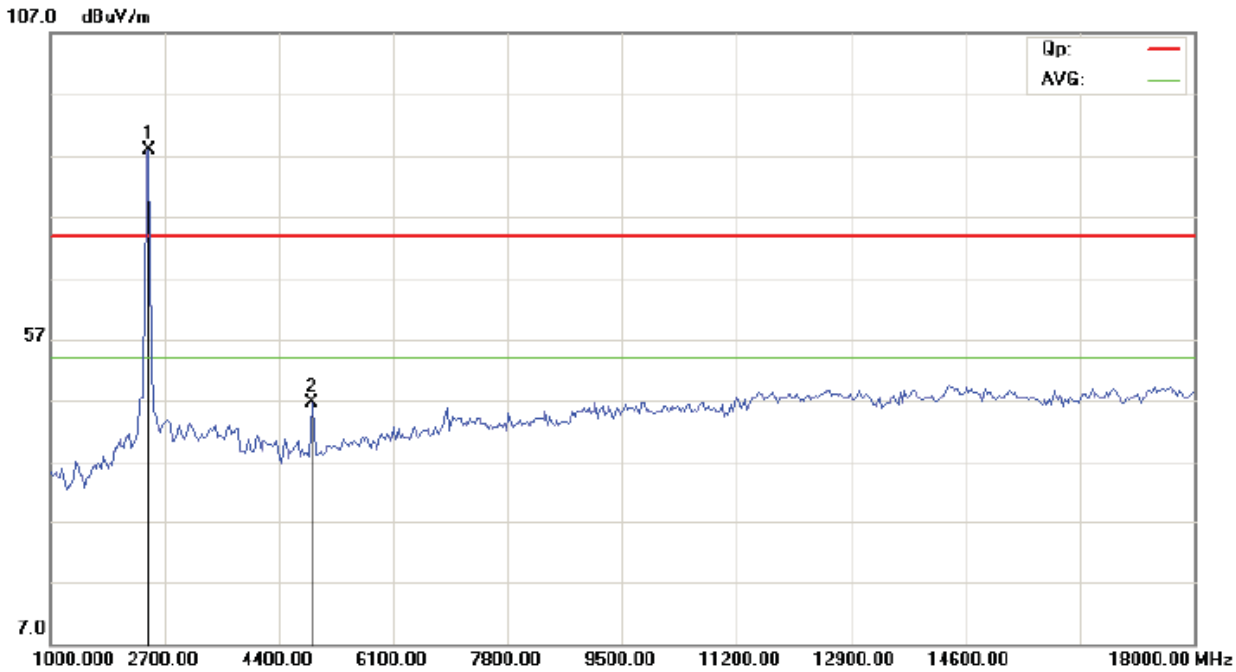
CH04 at 11n HT40: Horizontal



CH7 at 11n HT40: Vertical



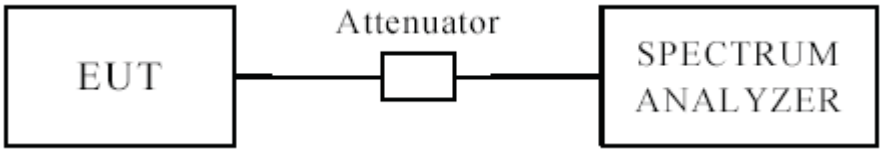
CH7 at 11n HT40: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

EUT	MID	Model	MID727BT-RK326
Mode	802.11b	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	10.08	0.5	Pass
6	2437	1	10.08	0.5	Pass
11	2462	1	10.08	0.5	Pass
1	2412	11	9.48	0.5	Pass
6	2437	11	9.48	0.5	Pass
11	2462	11	9.48	0.5	Pass

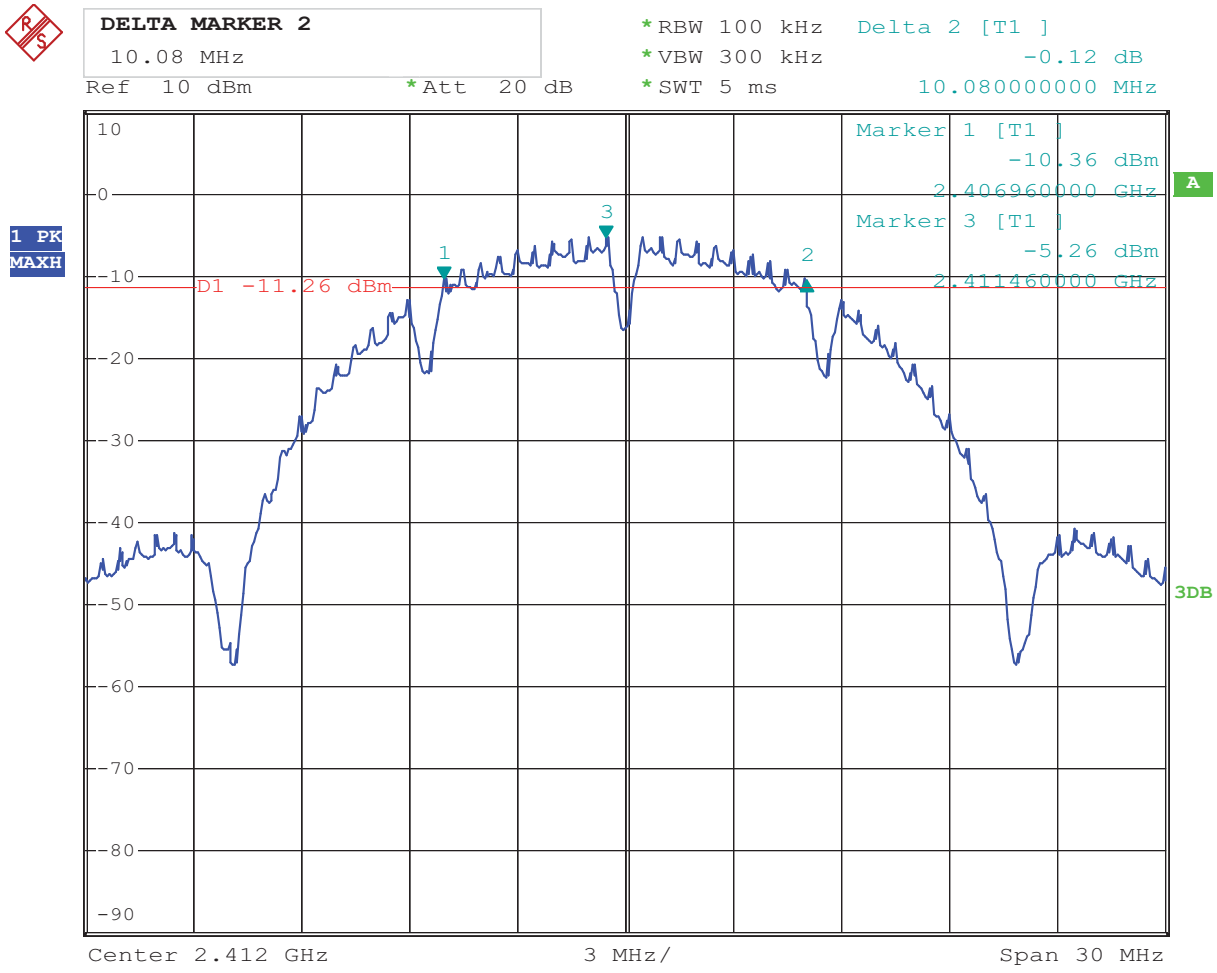
EUT	MID	Model	MID727BT-RK326
Mode	802.11g	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	54	16.56	0.5	Pass
6	2437	54	16.56	0.5	Pass
11	2462	54	16.56	0.5	Pass

EUT	MID	Model	MID727BT-RK326
Mode	802.11n	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

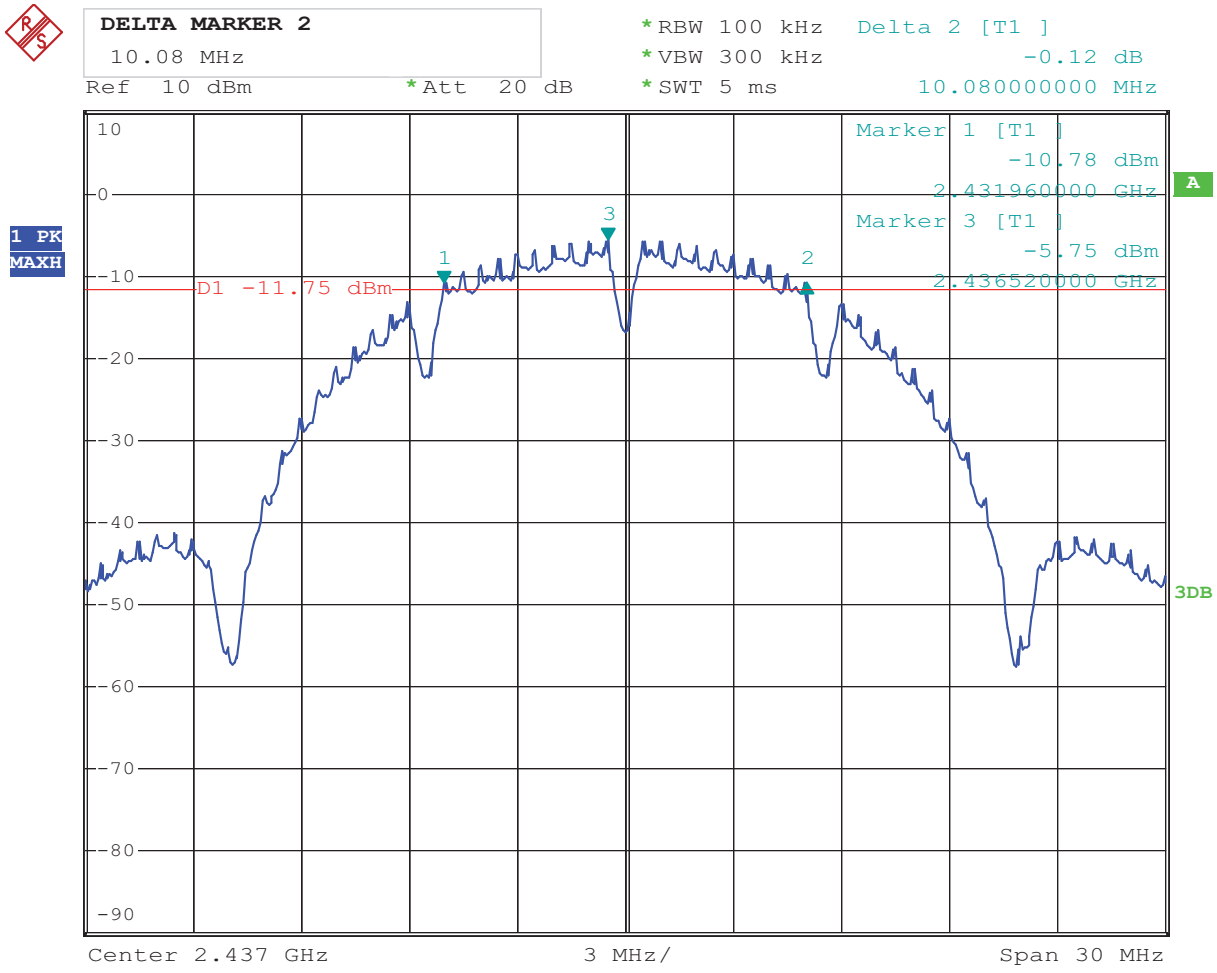
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	HT20	17.76	0.5	Pass
6	2437	HT20	17.76	0.5	Pass
11	2462	HT20	17.76	0.5	Pass
1	2422	HT40	36.40	0.5	Pass
4	2437	HT40	36.40	0.5	Pass
7	2452	HT40	36.40	0.5	Pass

1. 802.11b at 1Mbps of CH01



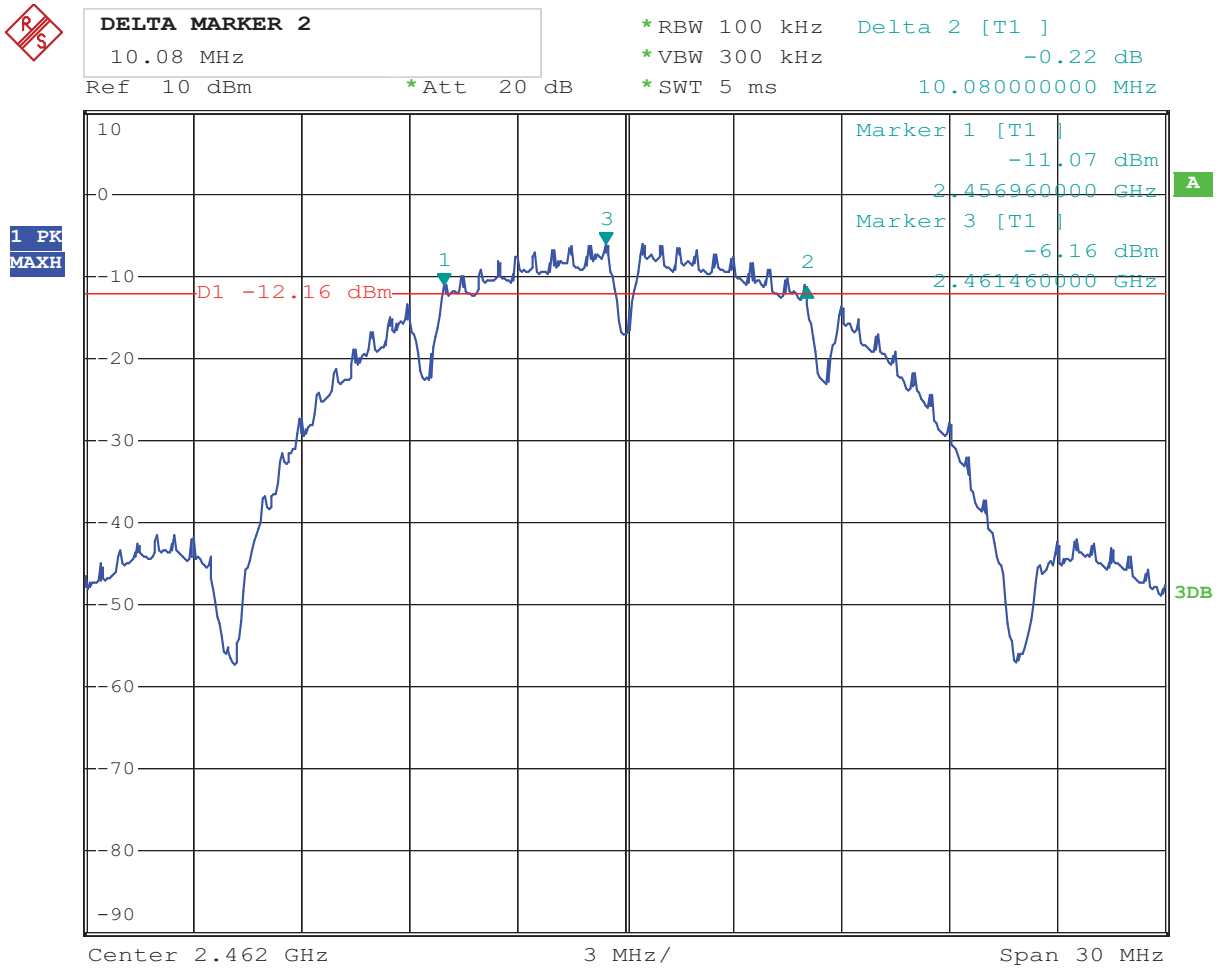
Date: 24.APR.2014 11:17:32

2. 802.11b at 1Mbps of CH06



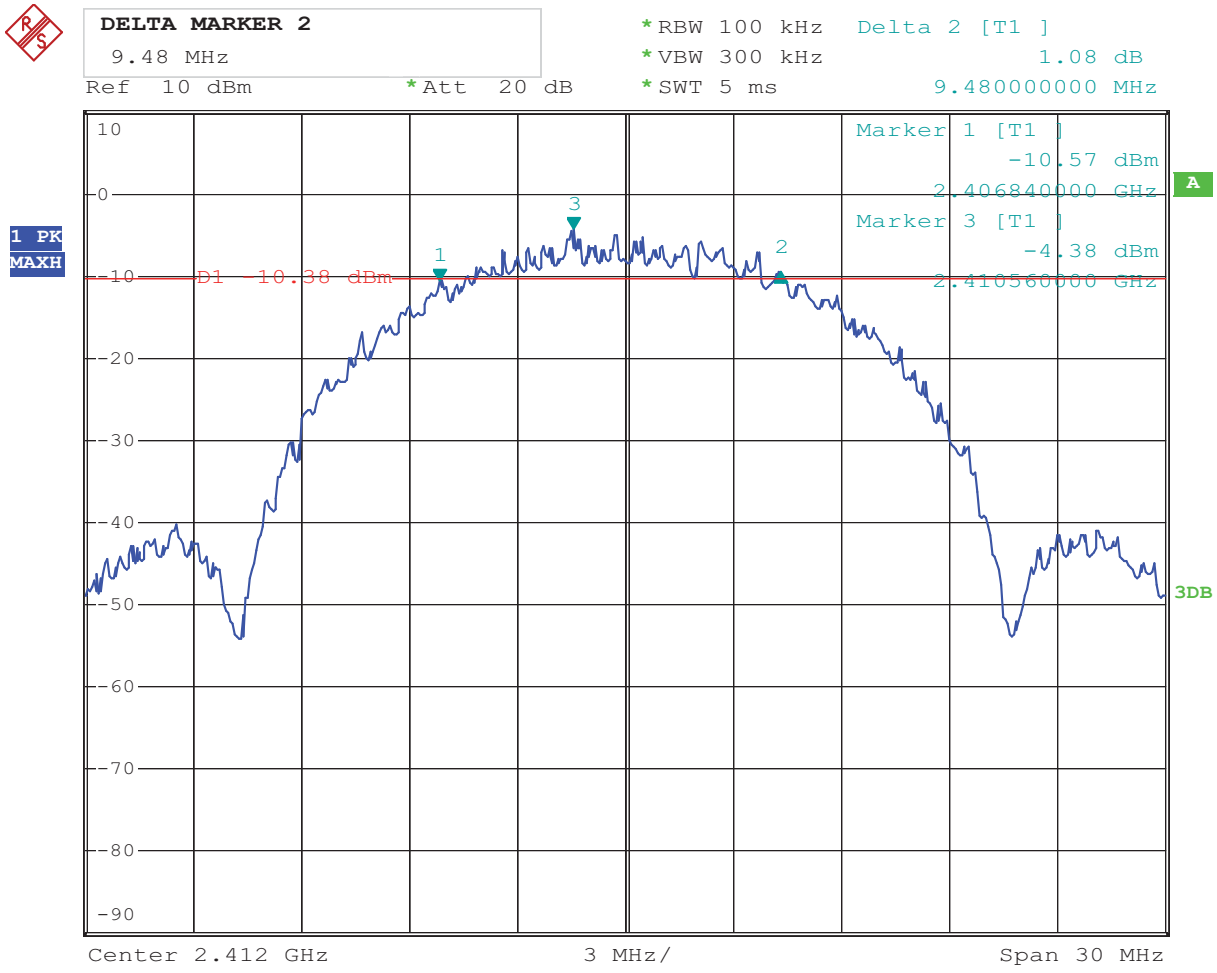
Date: 24.APR.2014 11:30:29

3. 802.11b at 1Mbps of CH11



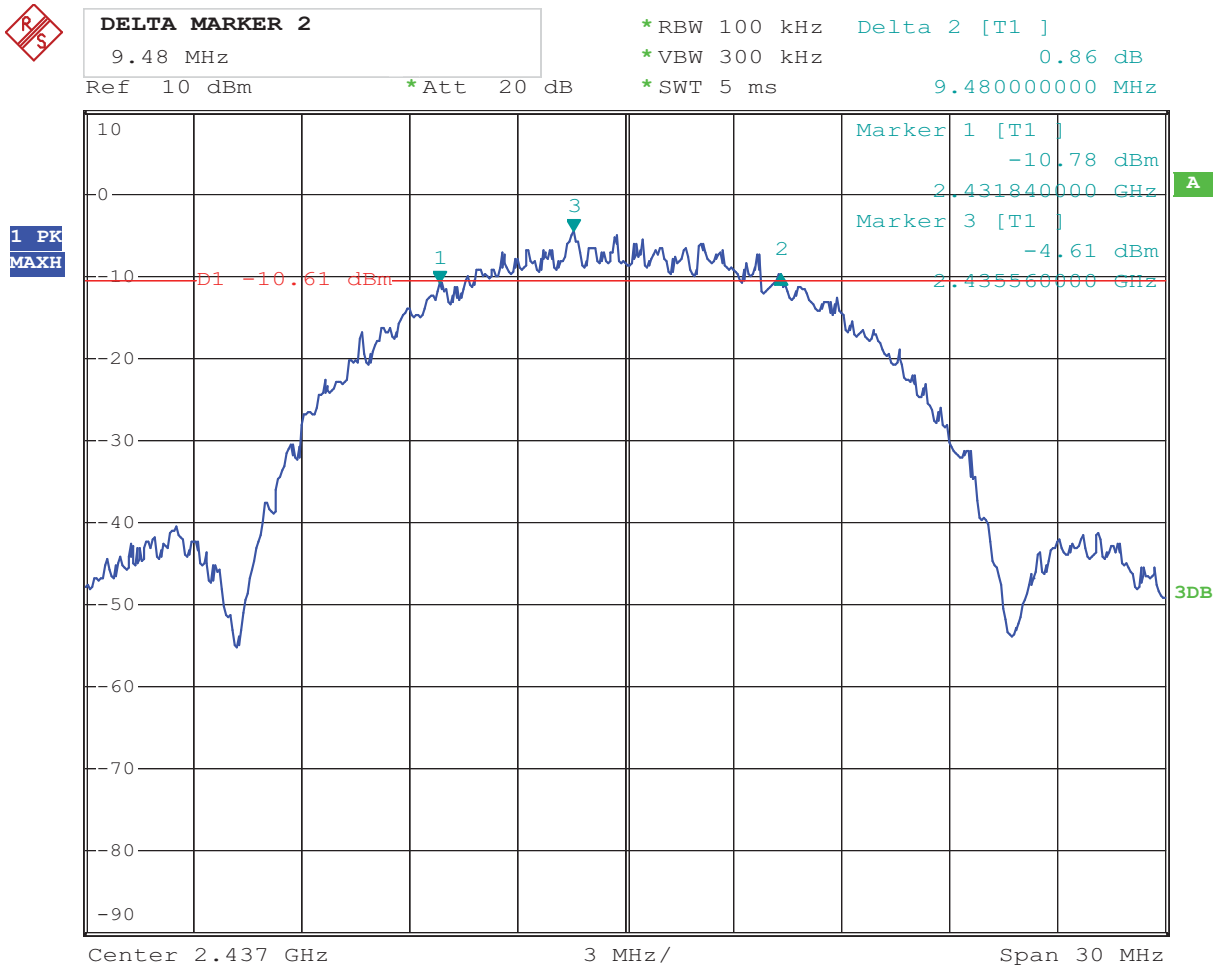
Date: 24.APR.2014 11:32:24

4. 802.11b at 11Mbps of CH01



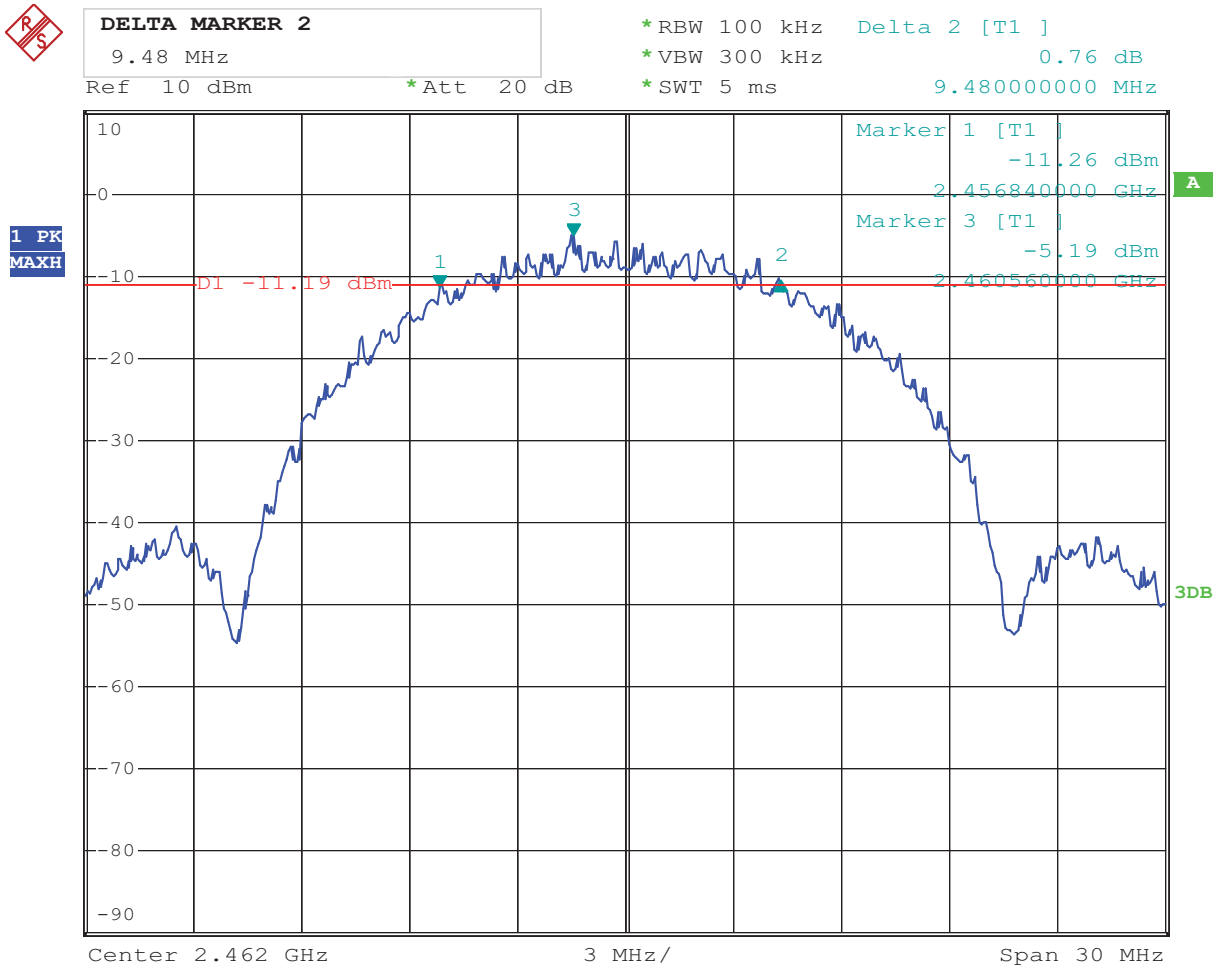
Date: 24.APR.2014 11:22:30

5. 802.11b at 11Mbps of CH06



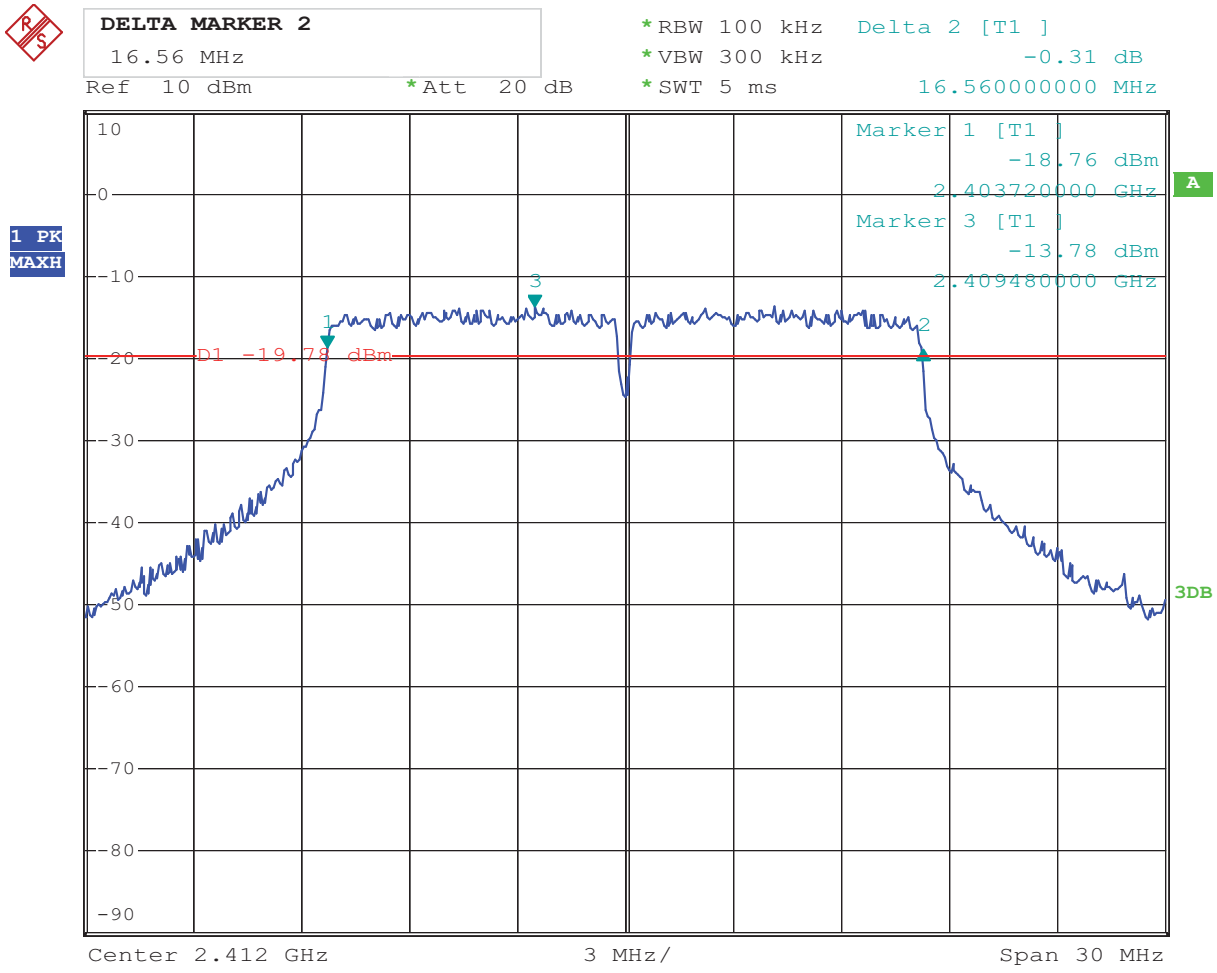
Date: 24.APR.2014 11:26:39

6. 802.11b at 11Mbps of CH11



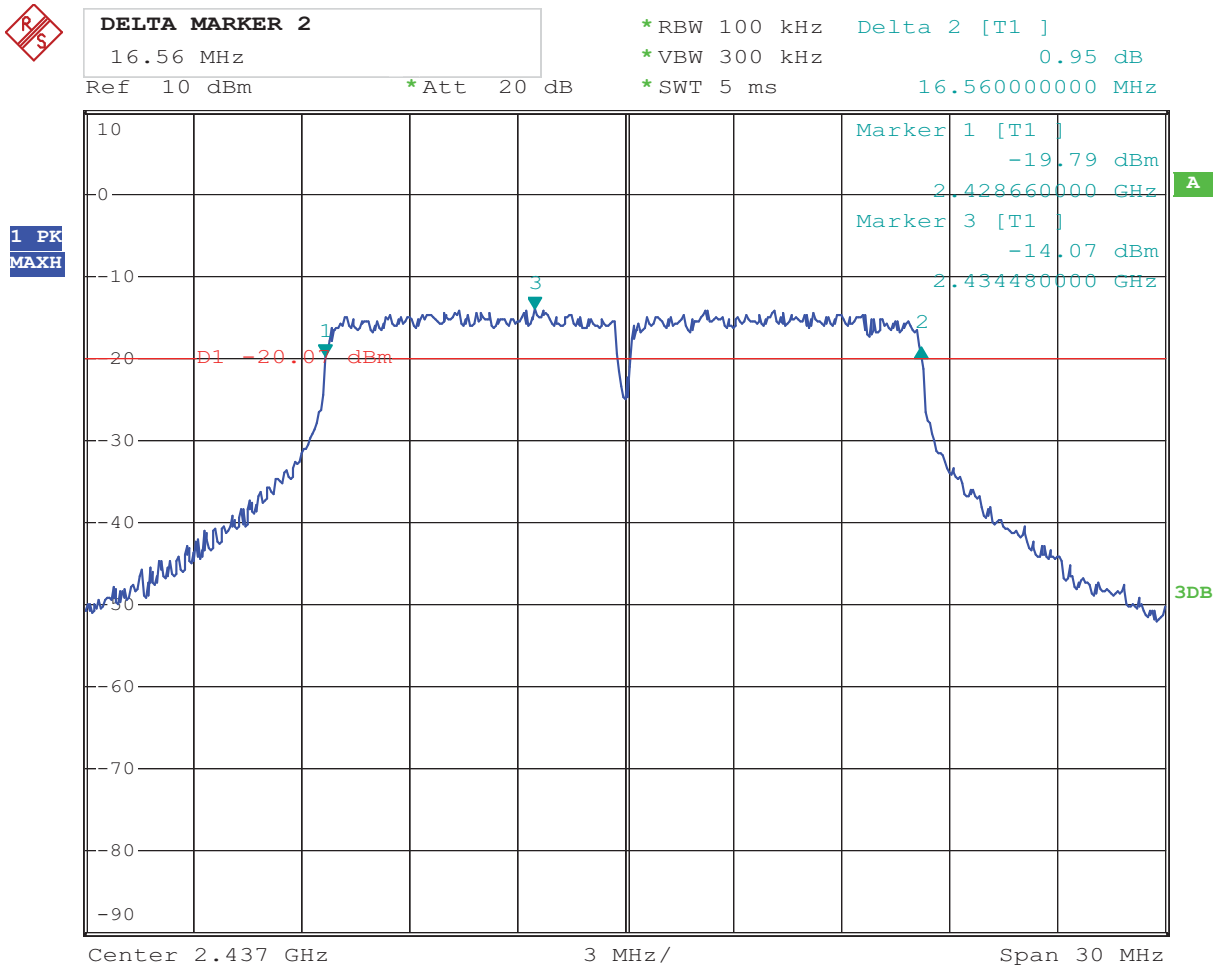
Date: 24.APR.2014 11:36:10

7. 802.11g at 54 Mbps of CH01

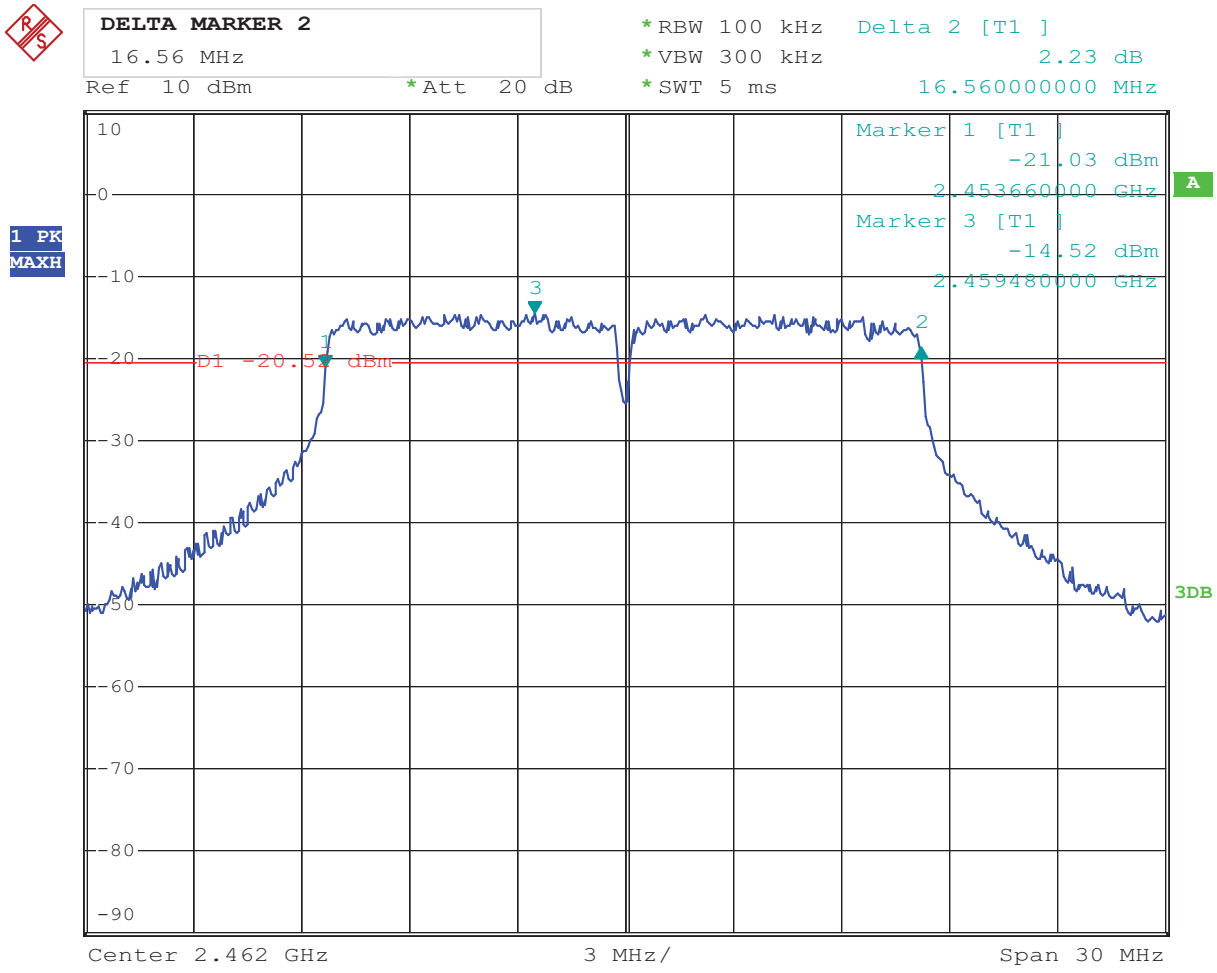


Date: 24.APR.2014 11:20:40

8. 802.11g at 54 Mbps of CH06



9. 802.11g at 54 Mbps of CH11



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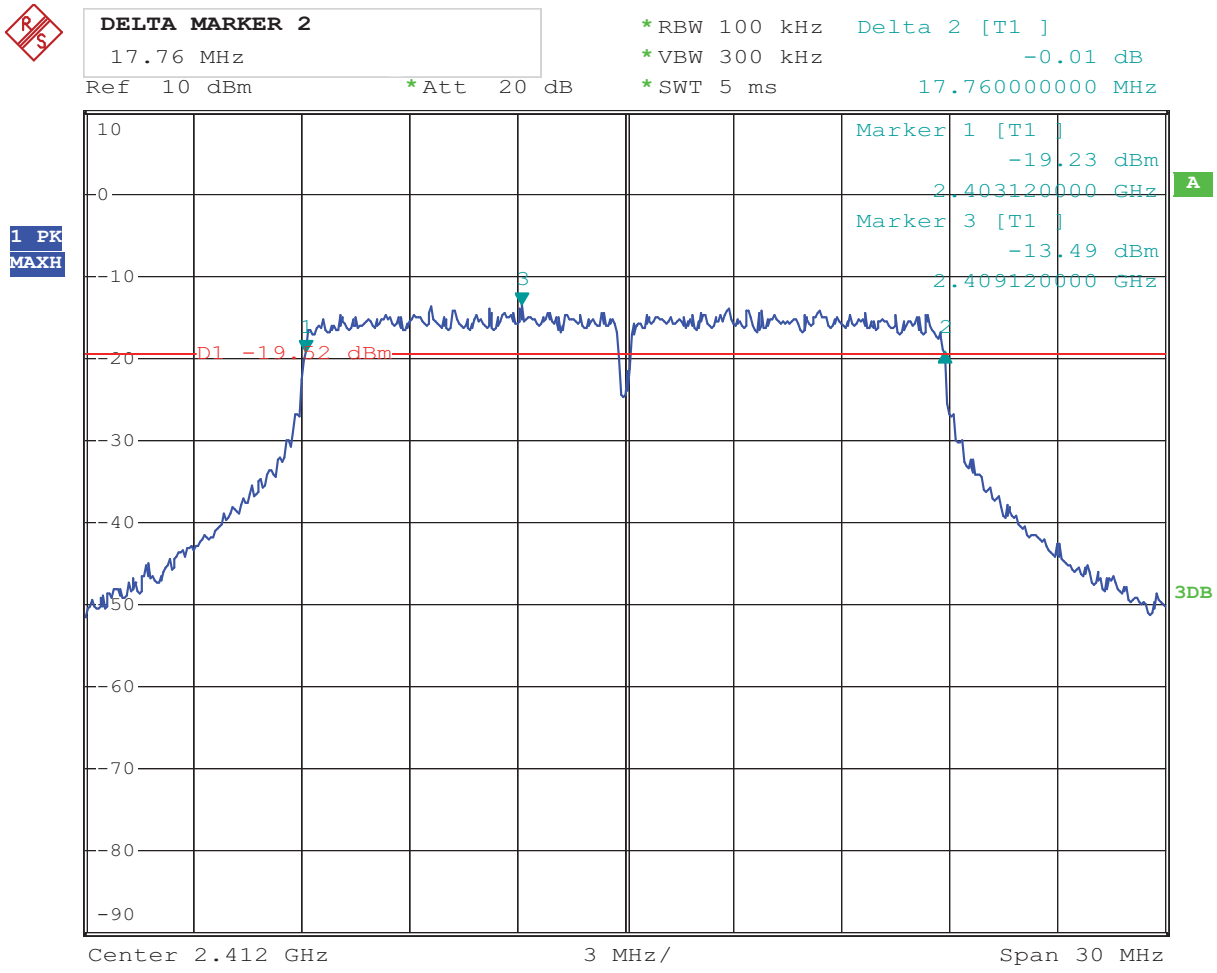
10. 802.11n at HT20 of CH01



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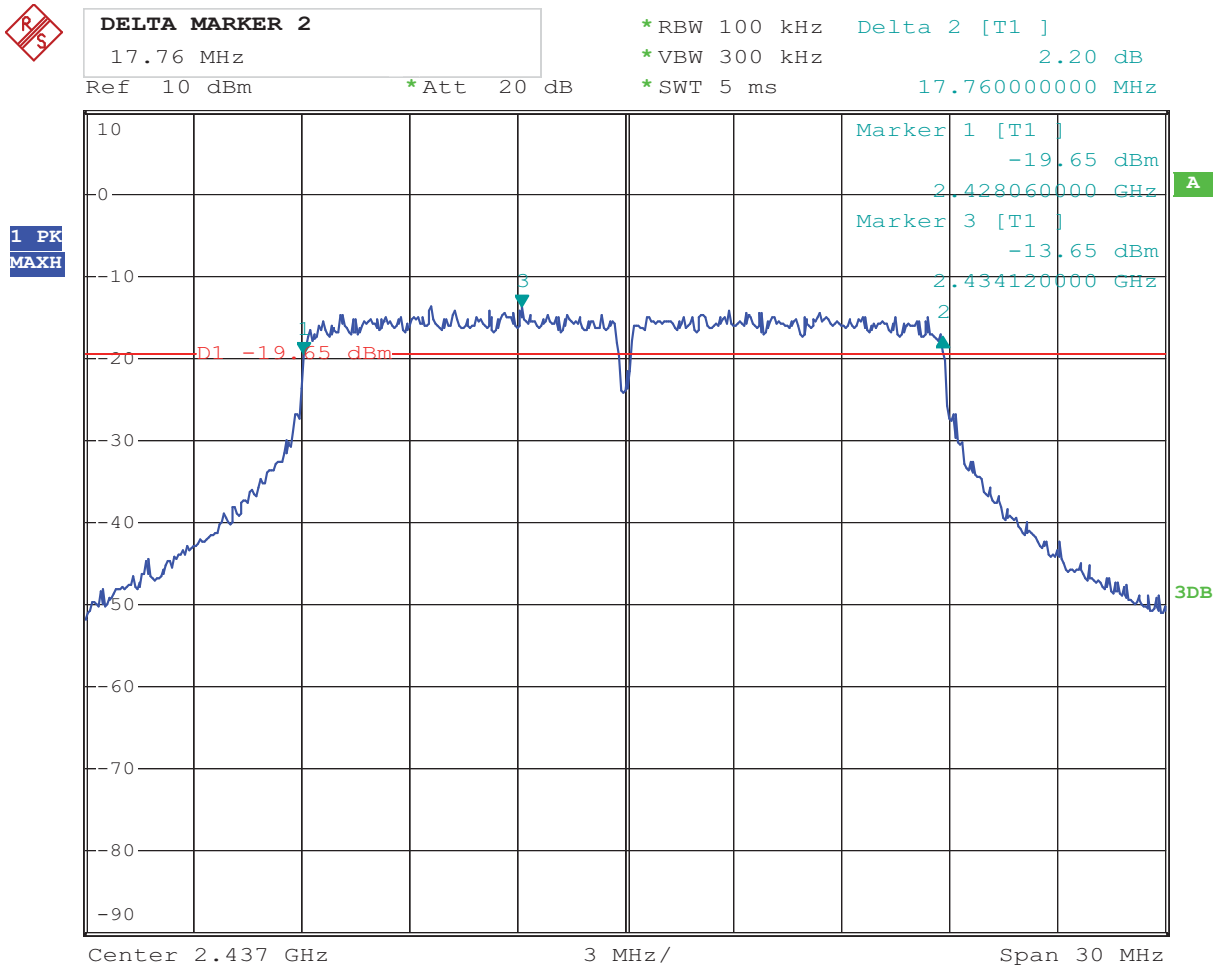
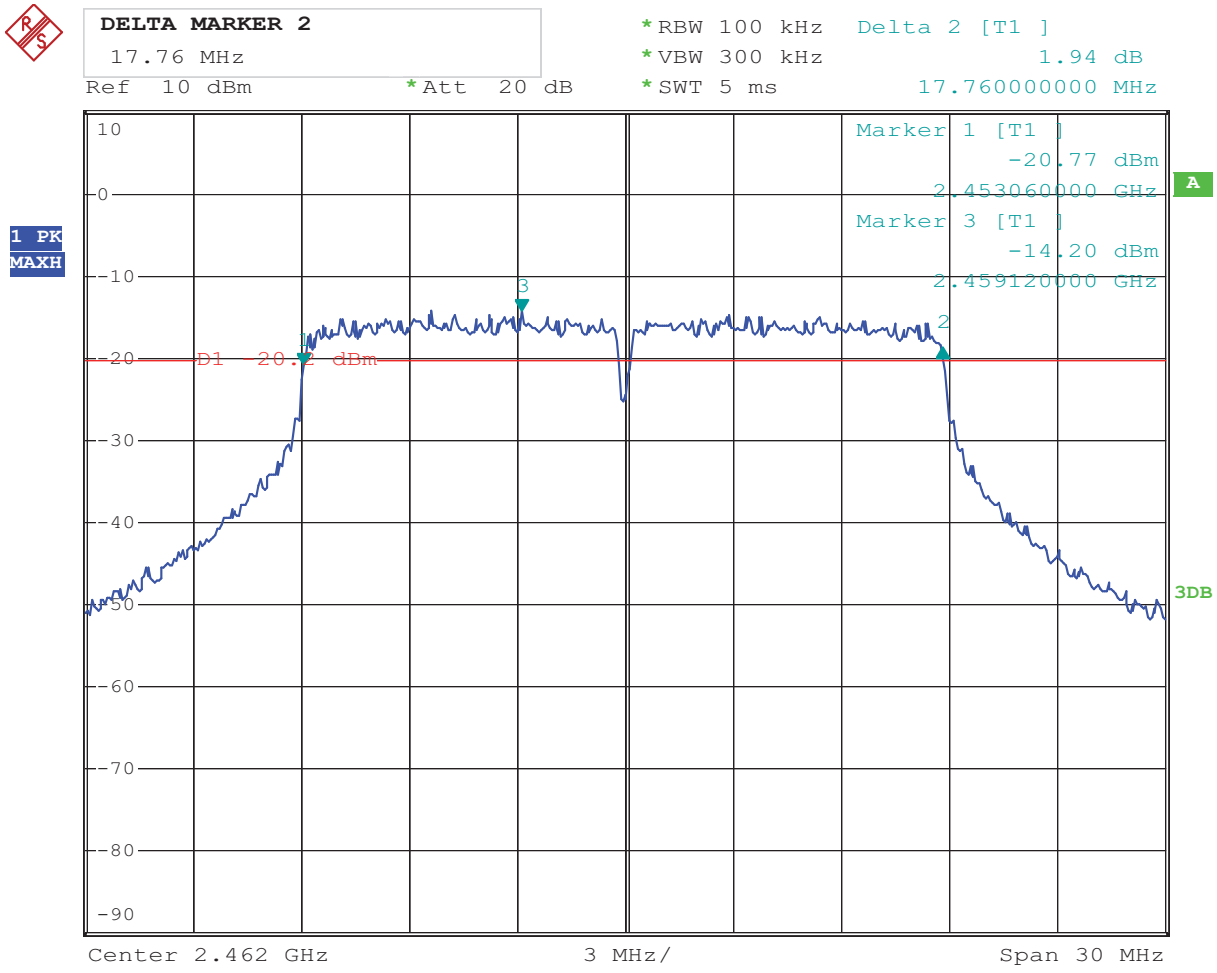
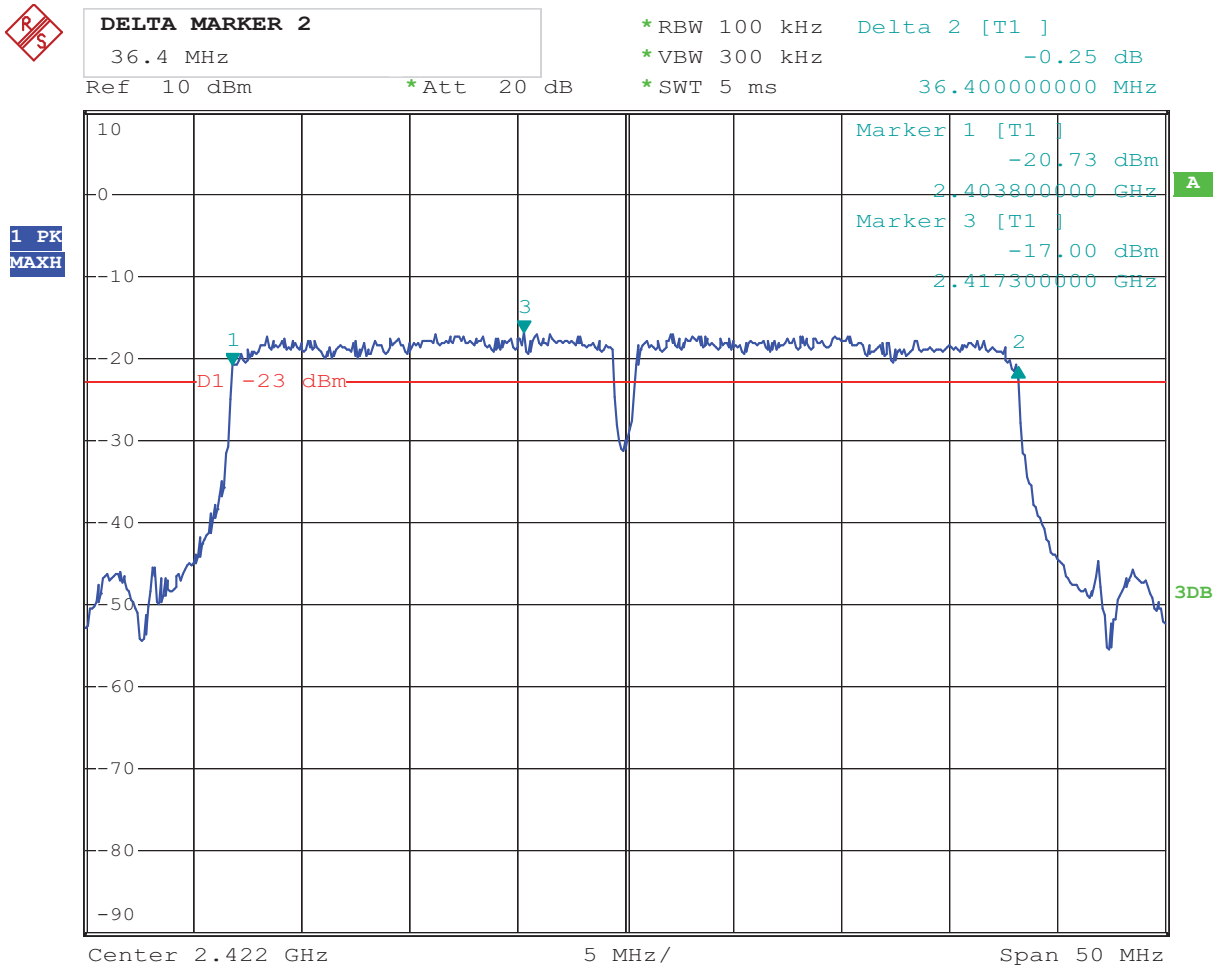
11. 802.11n at HT20 of CH06



12. 802.11n at HT20 of CH11

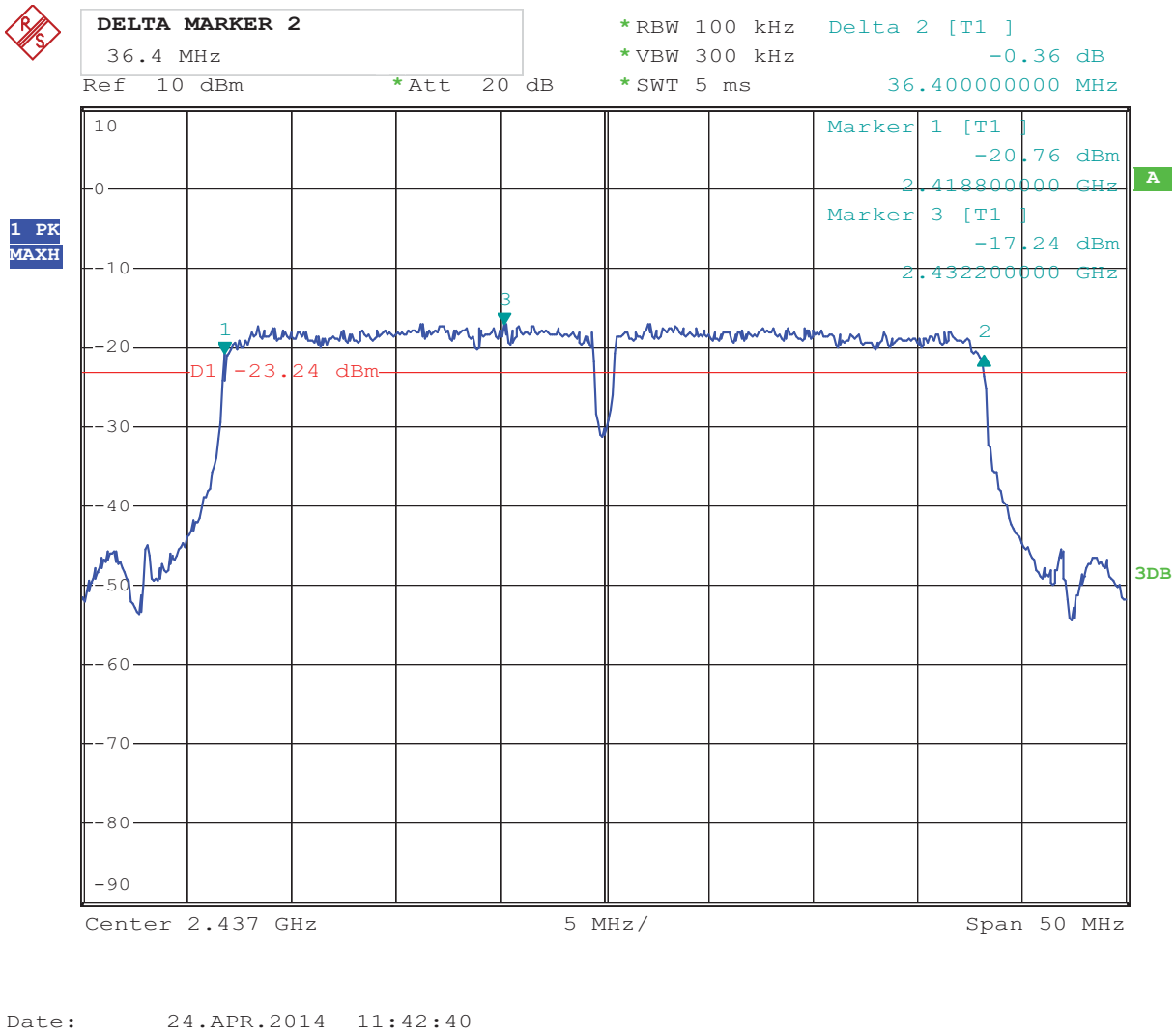


13. 802.11n at HT40 of CH01

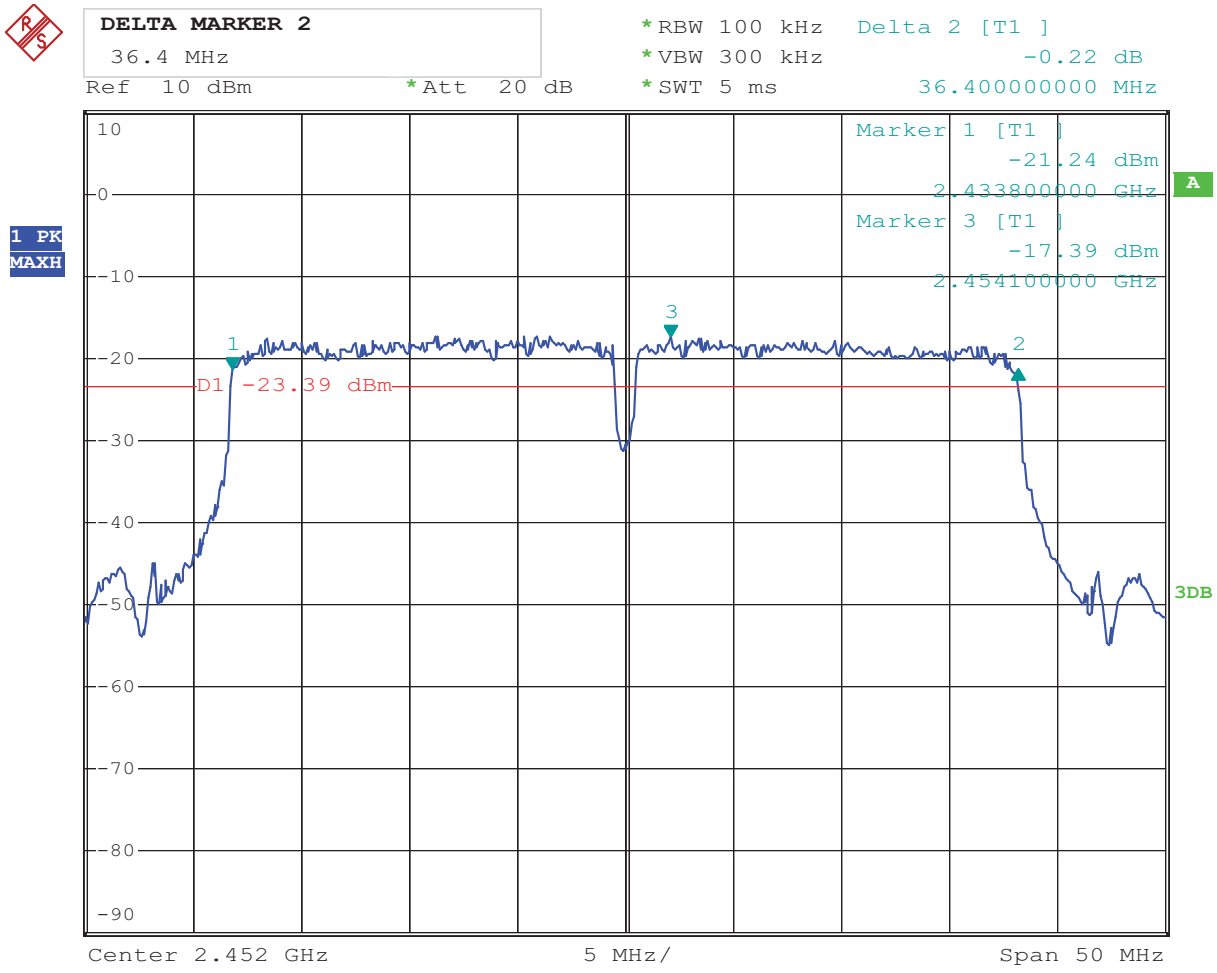


Date: 24.APR.2014 11:40:45

14. 802.11n at HT40 of CH04



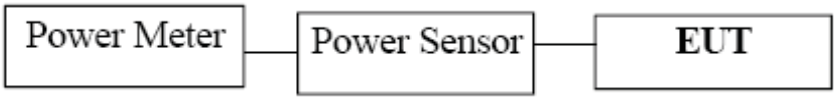
15. 802.11n at HT40 of CH07



Date: 24.APR.2014 11:45:18

8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the peak power was measured

8.4Test Results

EUT	MID	Model	MID727BT-RK326
Mode	802.11b 11Mbps	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	**9.47**	30	Pass
6	2437	9.28	30	Pass
11	2462	8.86	30	Pass

Note: 1. At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

EUT	MID	Model	MID727BT-RK326
Mode	802.11g	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	8.24	30	Pass
6	2437	8.03	30	Pass
11	2462	7.65	30	Pass

Note: 1. At finial test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

EUT	MID	Model	MID727BT-RK326
Mode	802.11n HT20	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	8.49	30	Pass
6	2437	8.31	30	Pass
11	2462	7.90	30	Pass

Note: 1. At finial test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

EUT	MID	Model	MID727BT-RK326
Mode	802.11n HT40	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2422	8.47	30	Pass
5	2437	8.37	30	Pass
7	2452	8.14	30	Pass

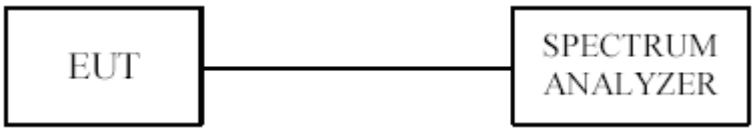
Note: 1. At finial test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW ≥ 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be ≤ 8 dBm.

9.4Test Result

EUT	MID	Model	MID727BT-RK326
Mode	802.11b 1Mbps	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
1Mbps				
1	2412	-16.14	8	Pass
6	2437	-16.24	8	Pass
11	2462	-16.62	8	Pass

Note: At finial test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11

EUT	MID	Model	MID727BT-RK326
Mode	802.11b 11Mbps	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
11Mbps				
1	2412	-14.46	8	Pass
6	2437	-14.51	8	Pass
11	2462	-14.89	8	Pass

Note: At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

EUT	MID	Model	MID727BT-RK326
Mode	802.11g	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
54Mbps				
1	2412	-22.08	8	Pass
6	2437	-22.25	8	Pass
11	2462	-22.68	8	Pass

Note: At finial test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

EUT	MID	Model	MID727BT-RK326
Mode	802.11n HT20	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
11n HT20 65Mbps				
1	2412	-21.07	8	Pass
6	2437	-21.60	8	Pass
11	2462	-22.10	8	Pass

Note: At finial test to get the worst-case emission at 65M for CH01, CH06 and CH11

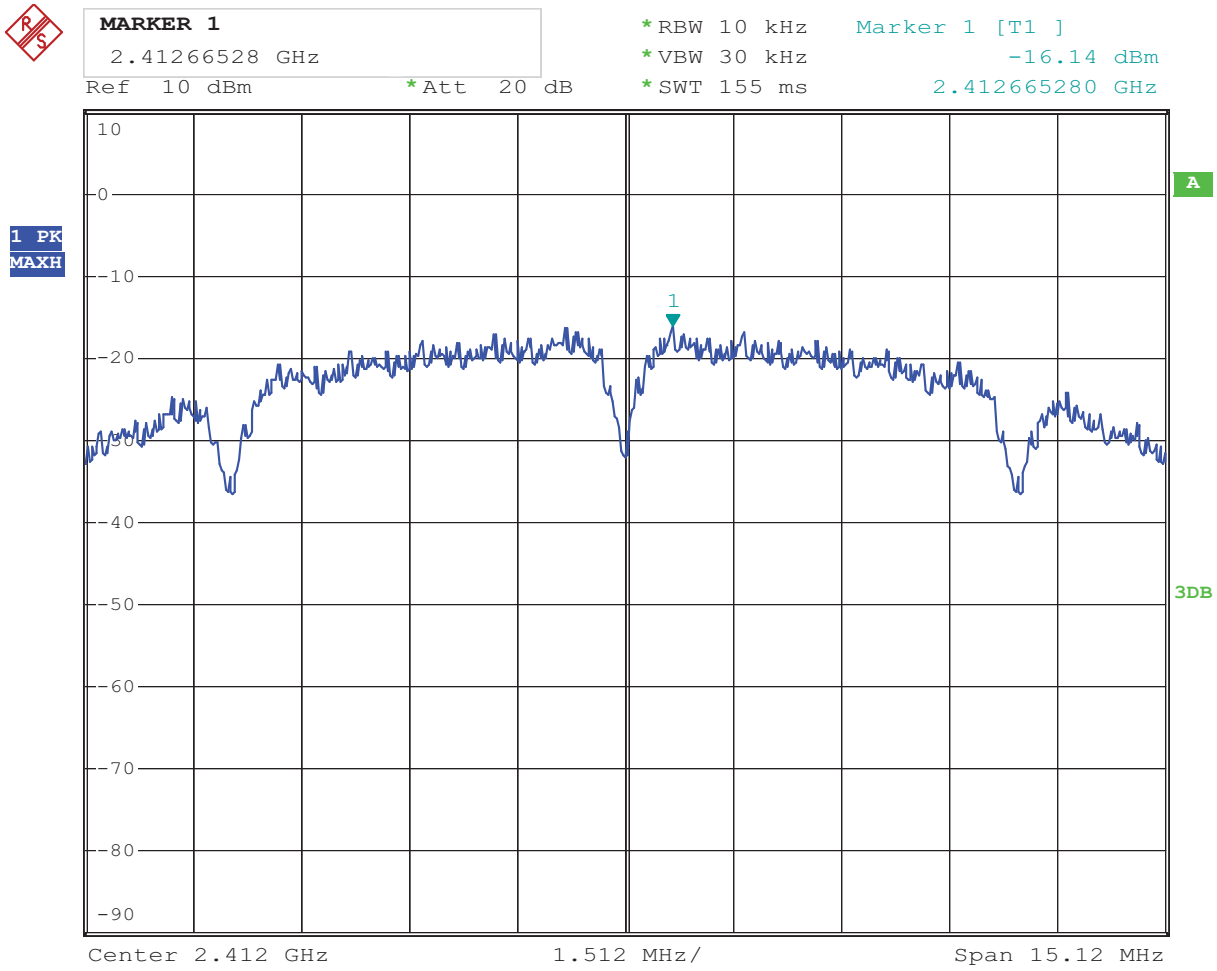
EUT	MID	Model	MID727BT-RK326
Mode	802.11n HT40	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
11n HT40 65Mbps				
1	2422	-24.78	8	Pass
5	2437	-23.05	8	Pass
7	2452	-24.57	8	Pass

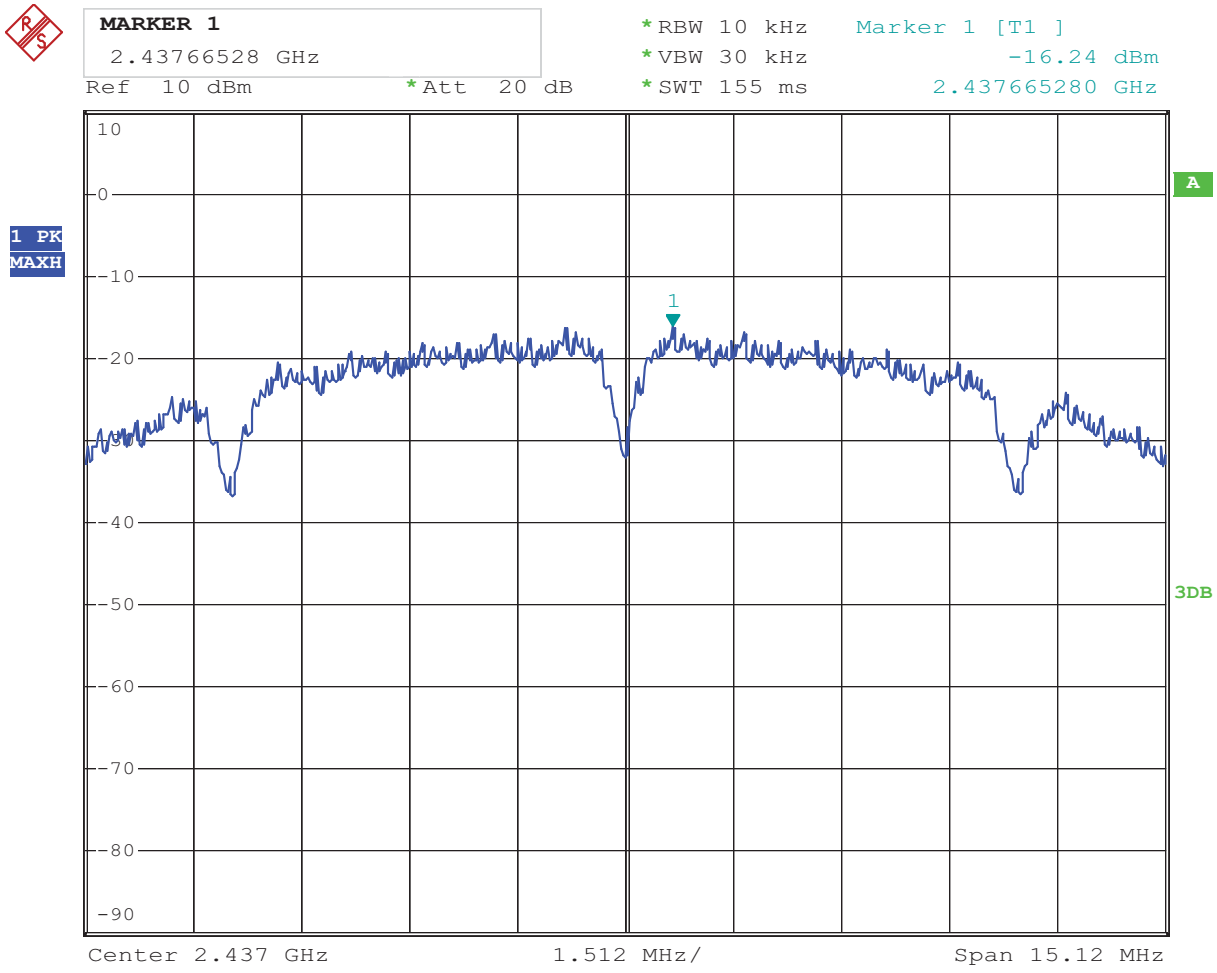
Note: At finial test to get the worst-case emission at 65Mfor CH01, CH04 and CH07

9.5 Photo of Power Spectral Density Measurement

1. 802.11b at 1Mbps of CH01

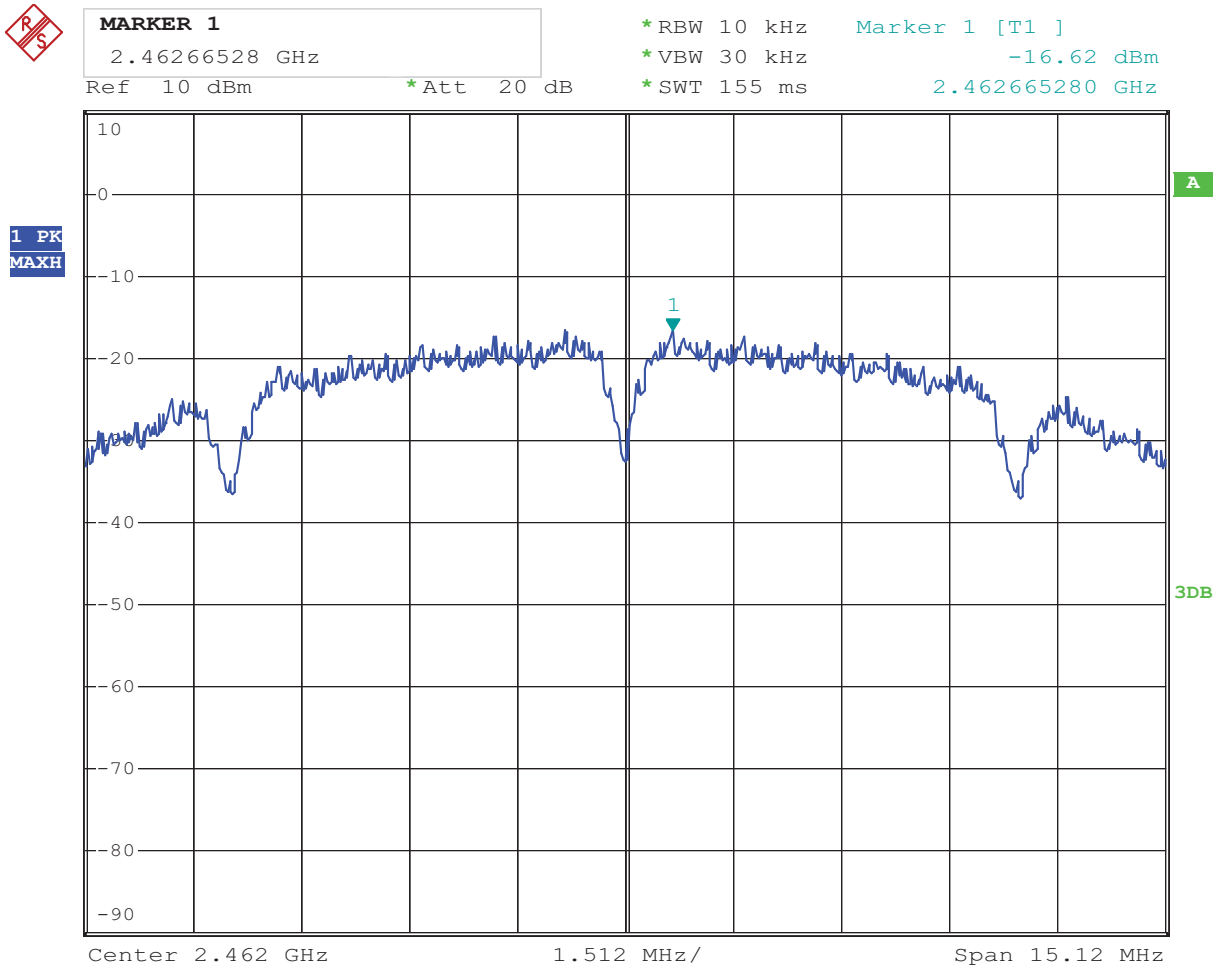


2. 802.11b at 1Mbps of CH06



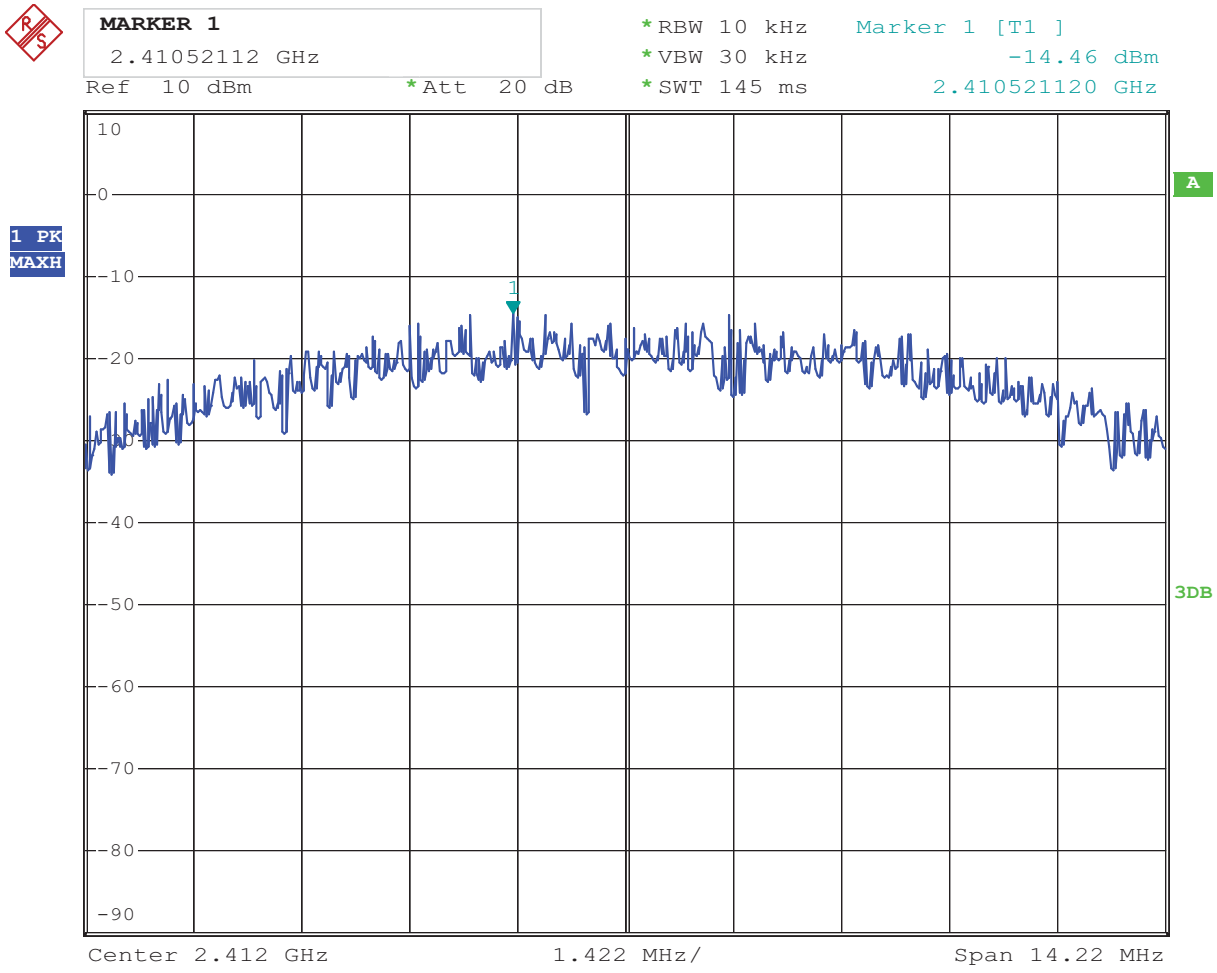
Date: 24.APR.2014 12:32:06

3. 802.11b at 1Mbps of CH11



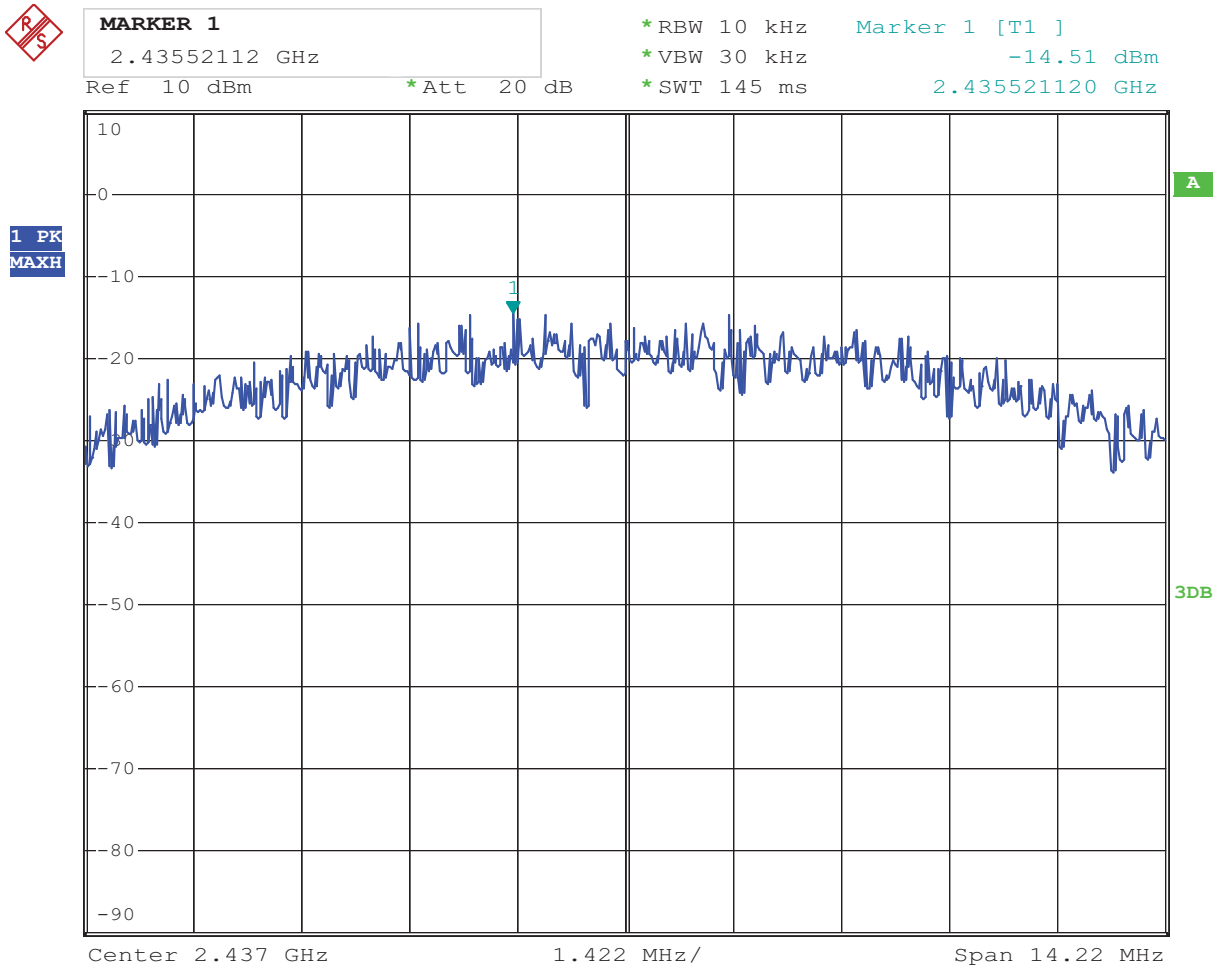
Date: 24.APR.2014 12:32:41

4. 802.11b at 11Mbps of CH01



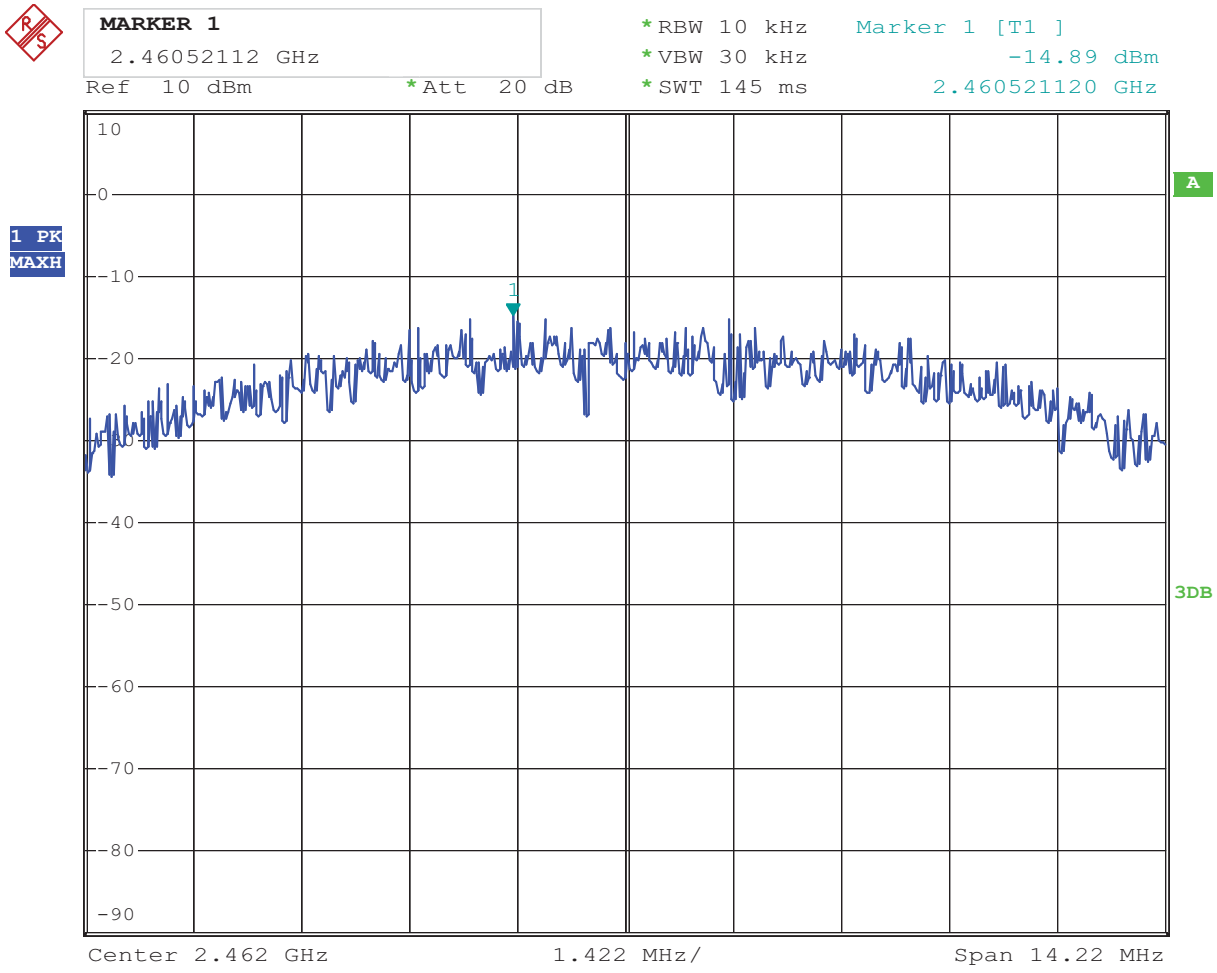
Date: 24.APR.2014 12:37:05

5. 802.11b at 11Mbps of CH06



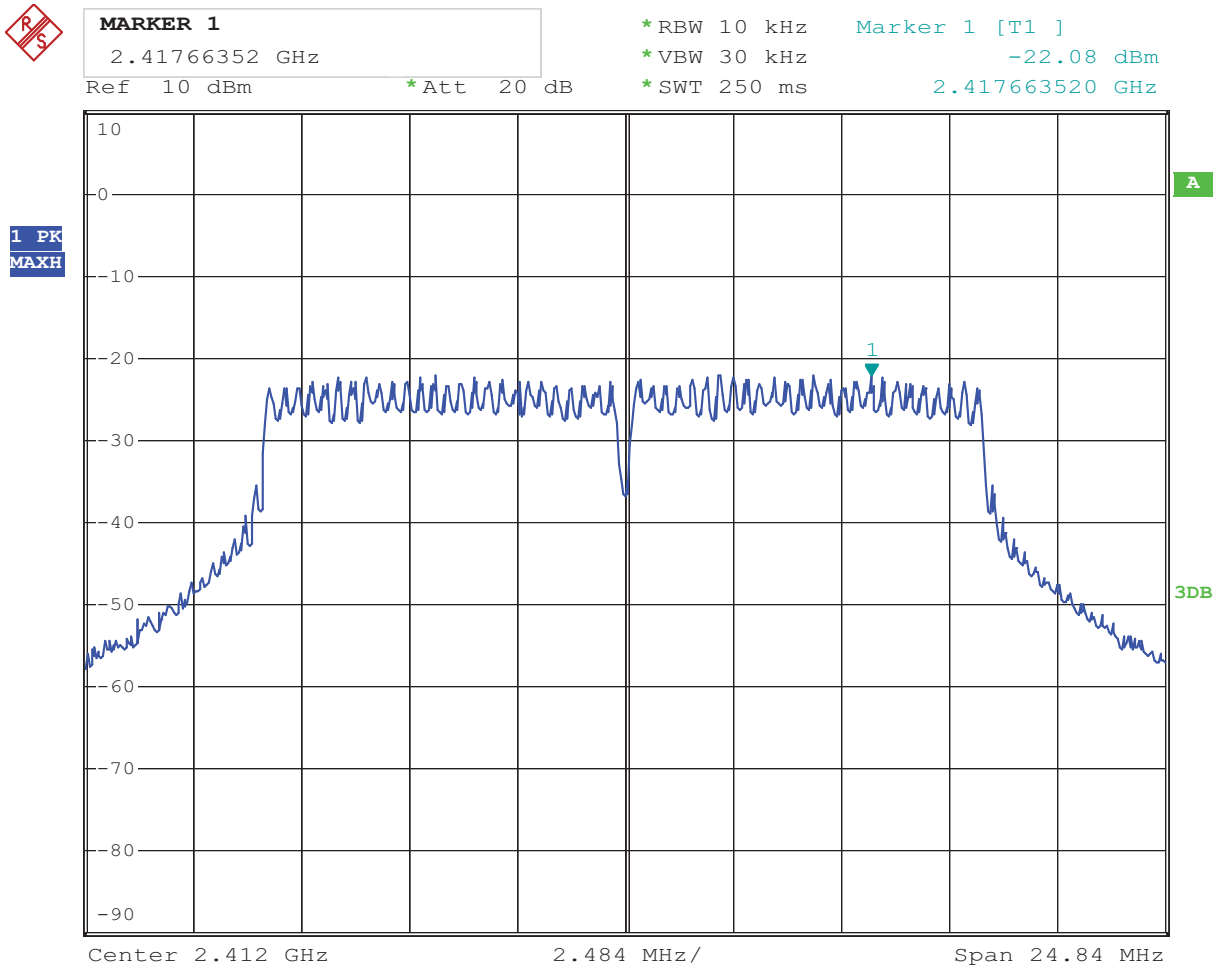
Date: 24.APR.2014 12:37:41

6. 802.11b at 11Mbps of CH11

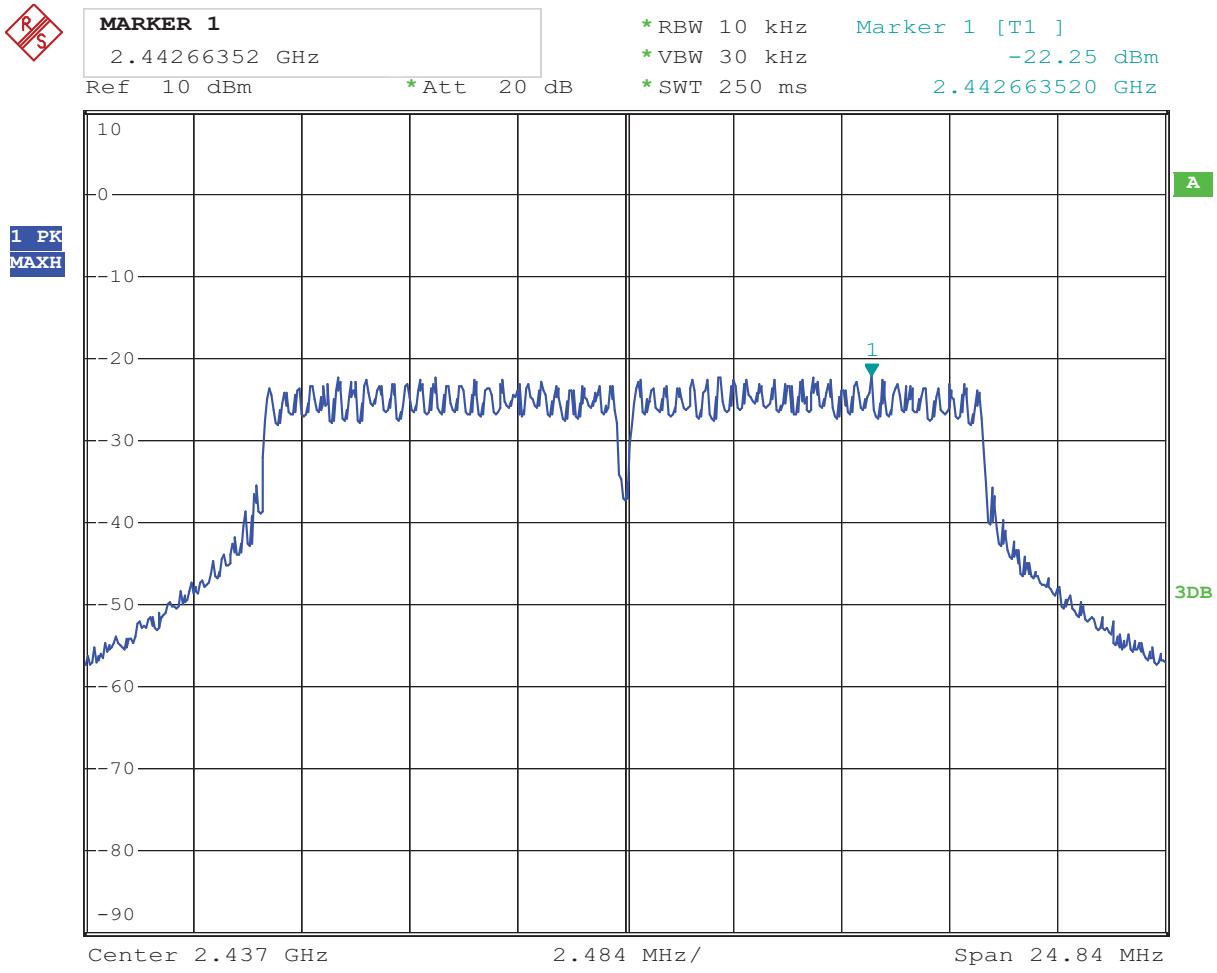


Date: 24.APR.2014 12:38:14

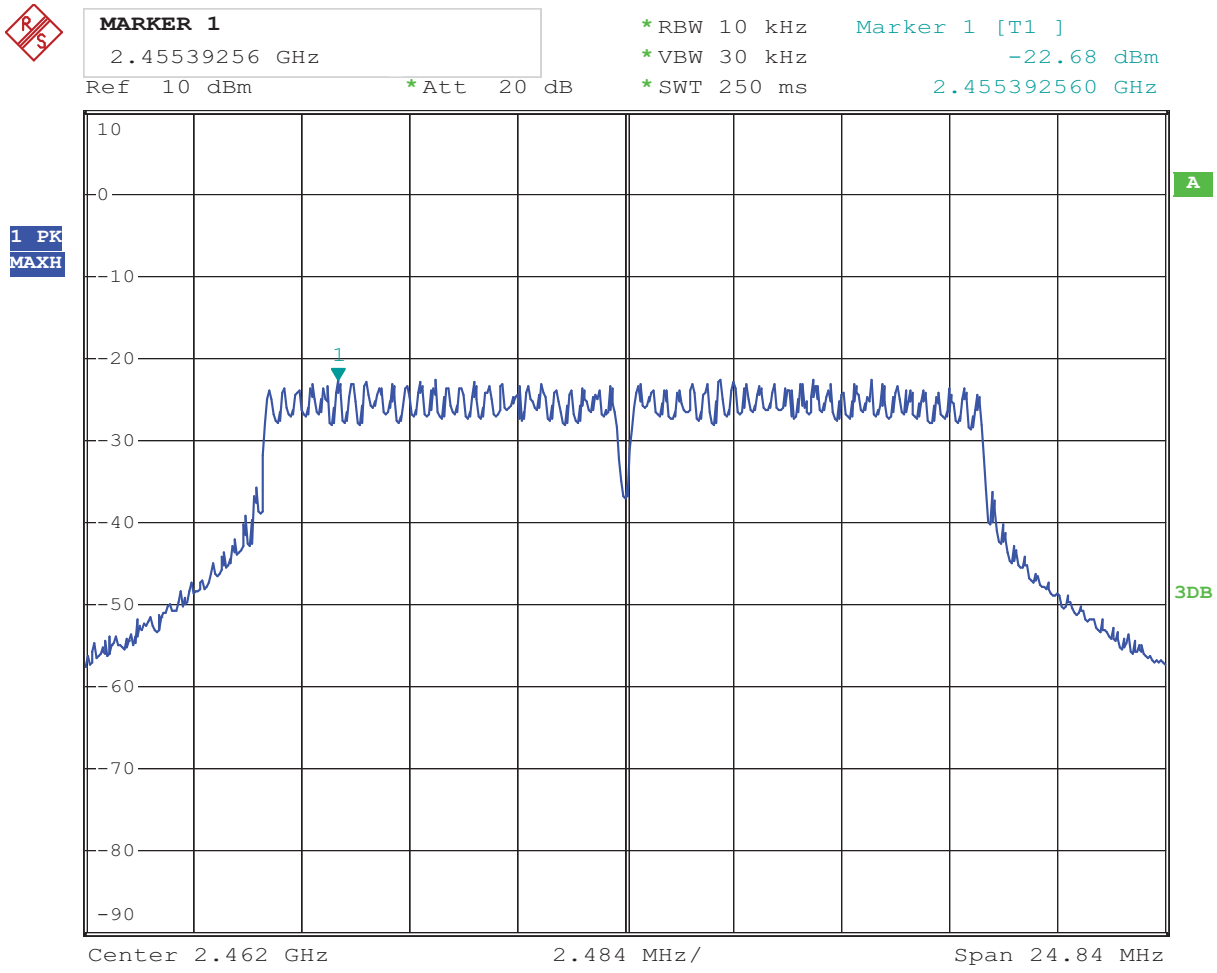
7. 802.11g at 54Mbps of CH1



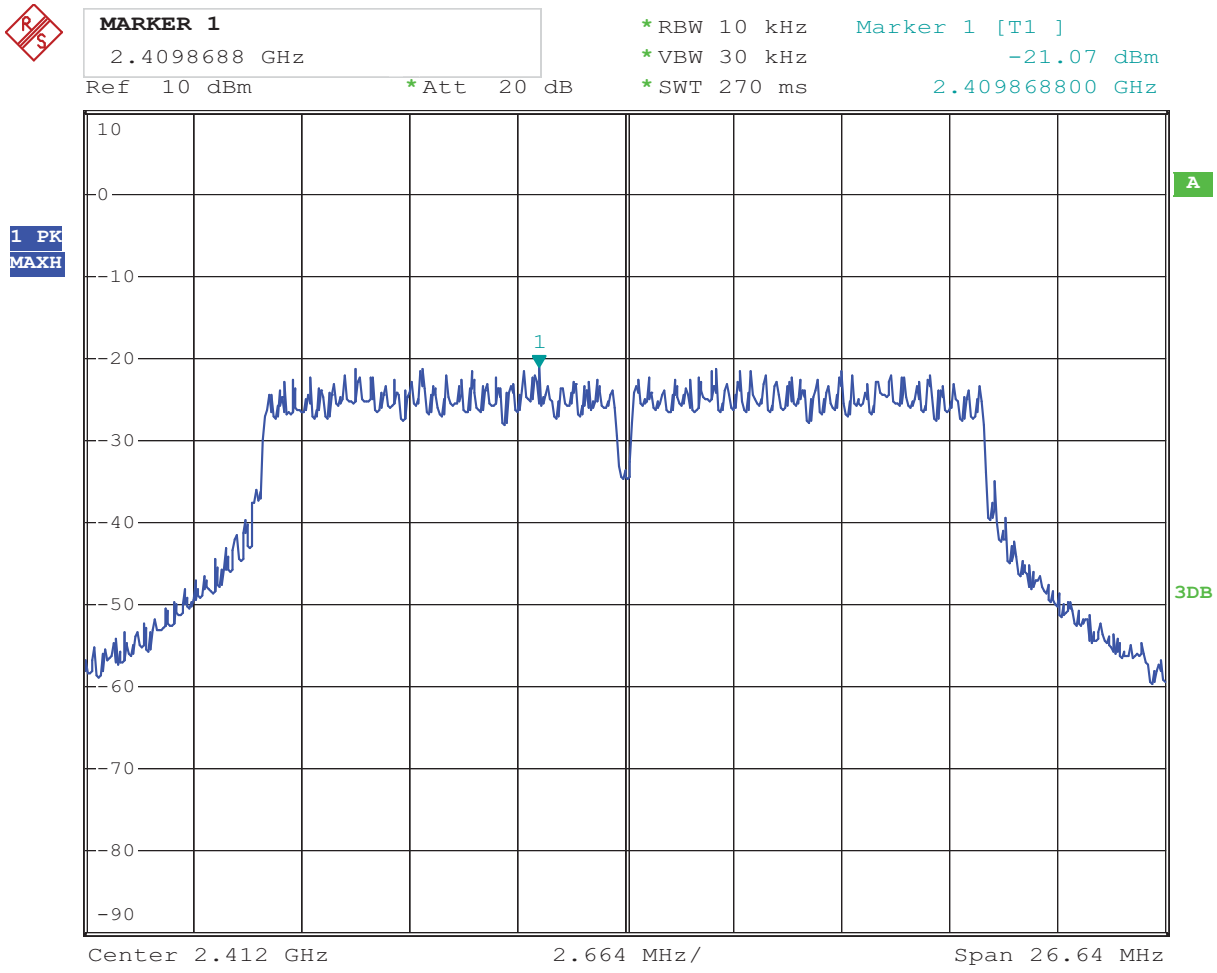
8. 802.11g at 54Mbps of CH6



9. 802.11g at 54Mbps of CH11

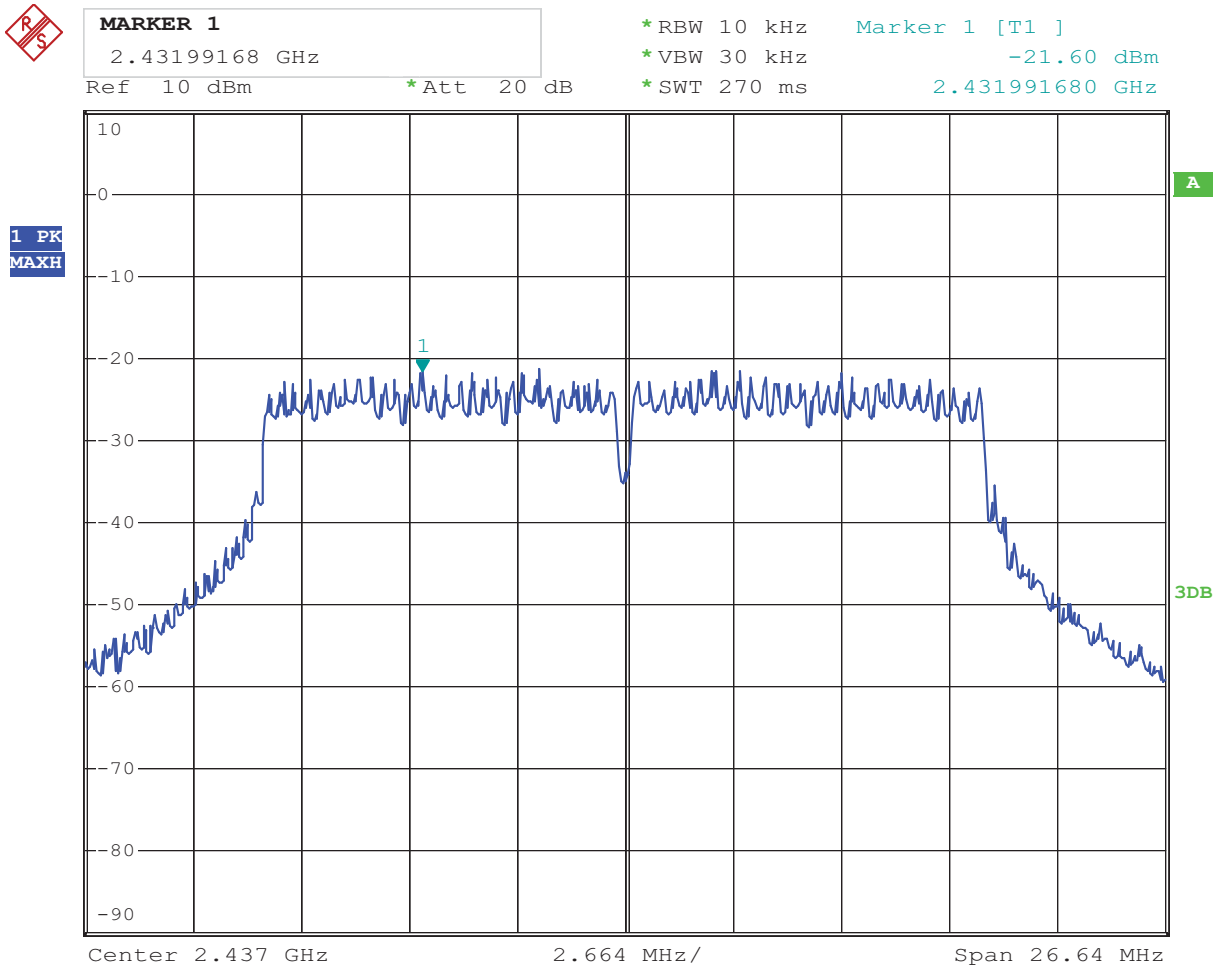


10. 802.11n at HT20 of CH01 65Mbps



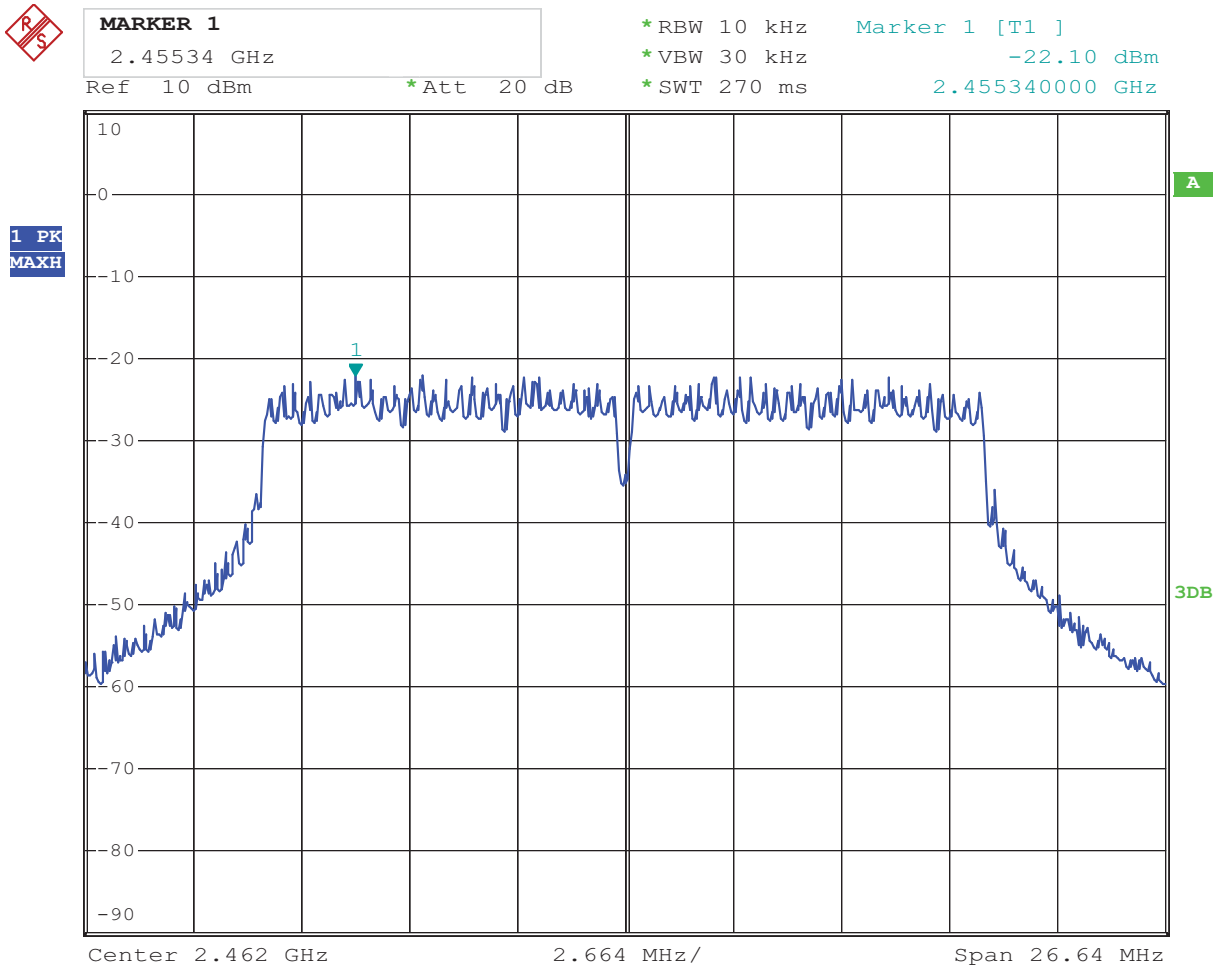
Date: 24.APR.2014 12:42:43

11. 802.11n at HT20 of CH06 65Mbps

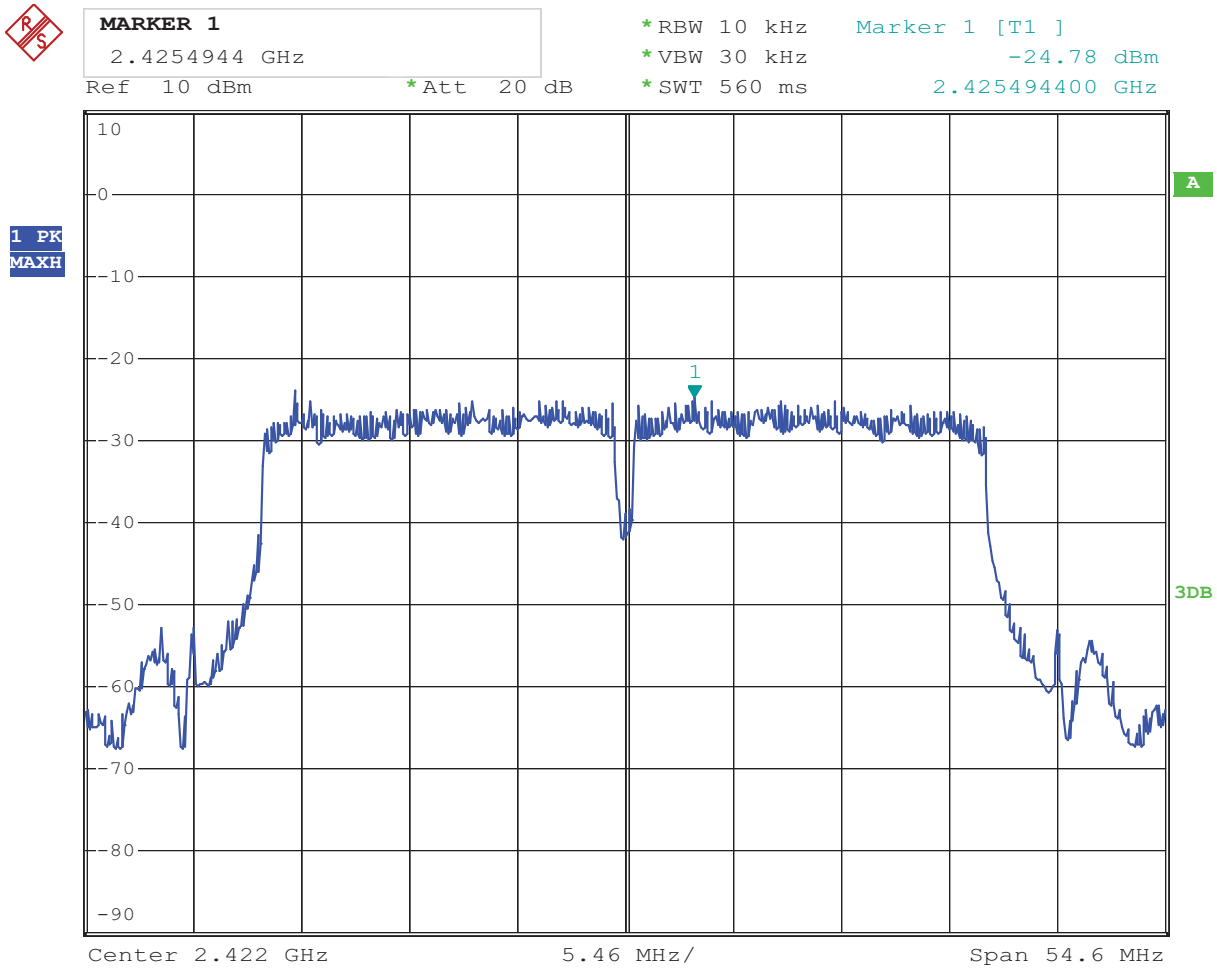


Date: 24.APR.2014 12:40:41

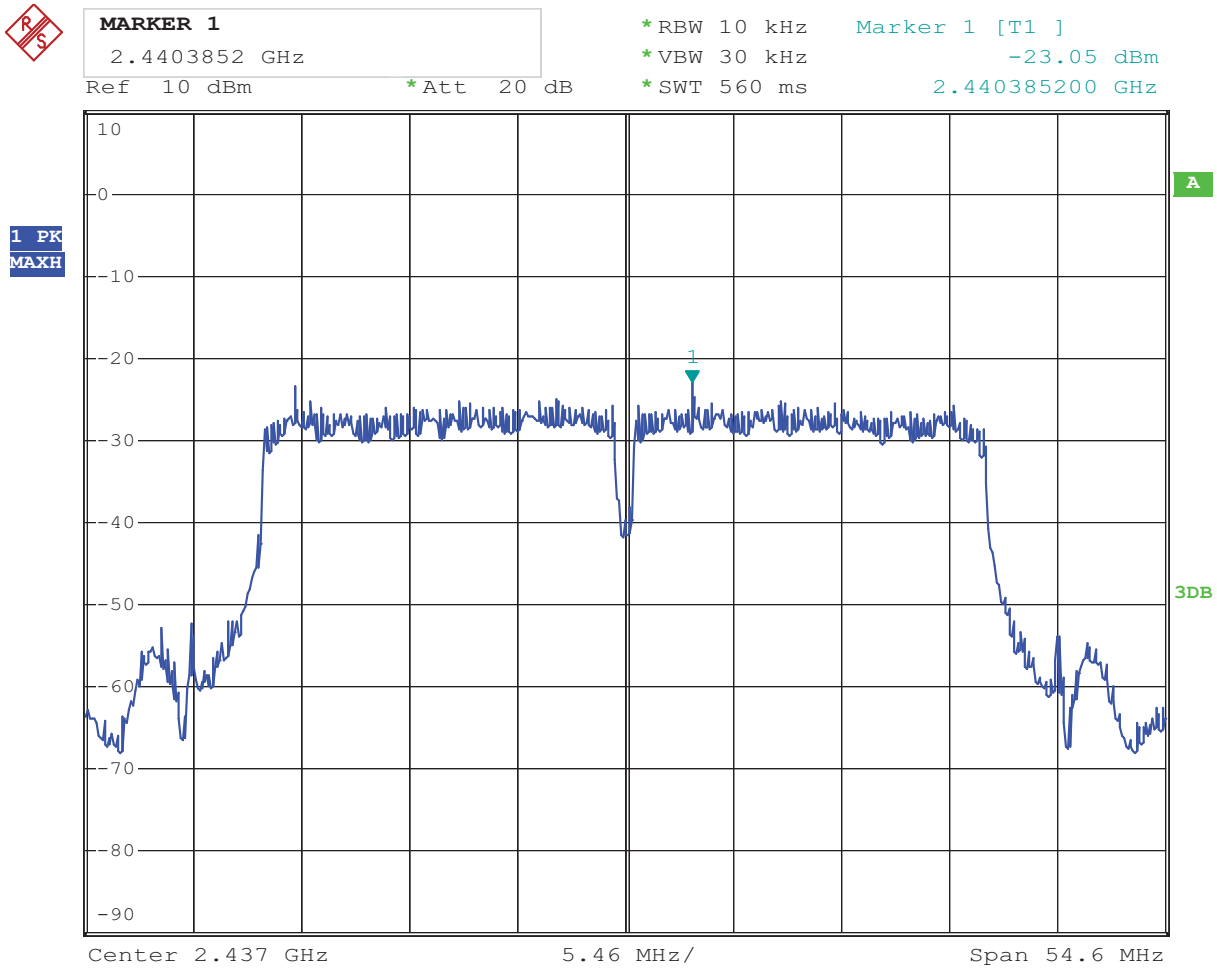
12. 802.11n at HT20 of CH11 65Mbps



13. 802.11n at HT40 of CH01 65Mbps



14. 802.11n at HT40 of CH04 65Mbps



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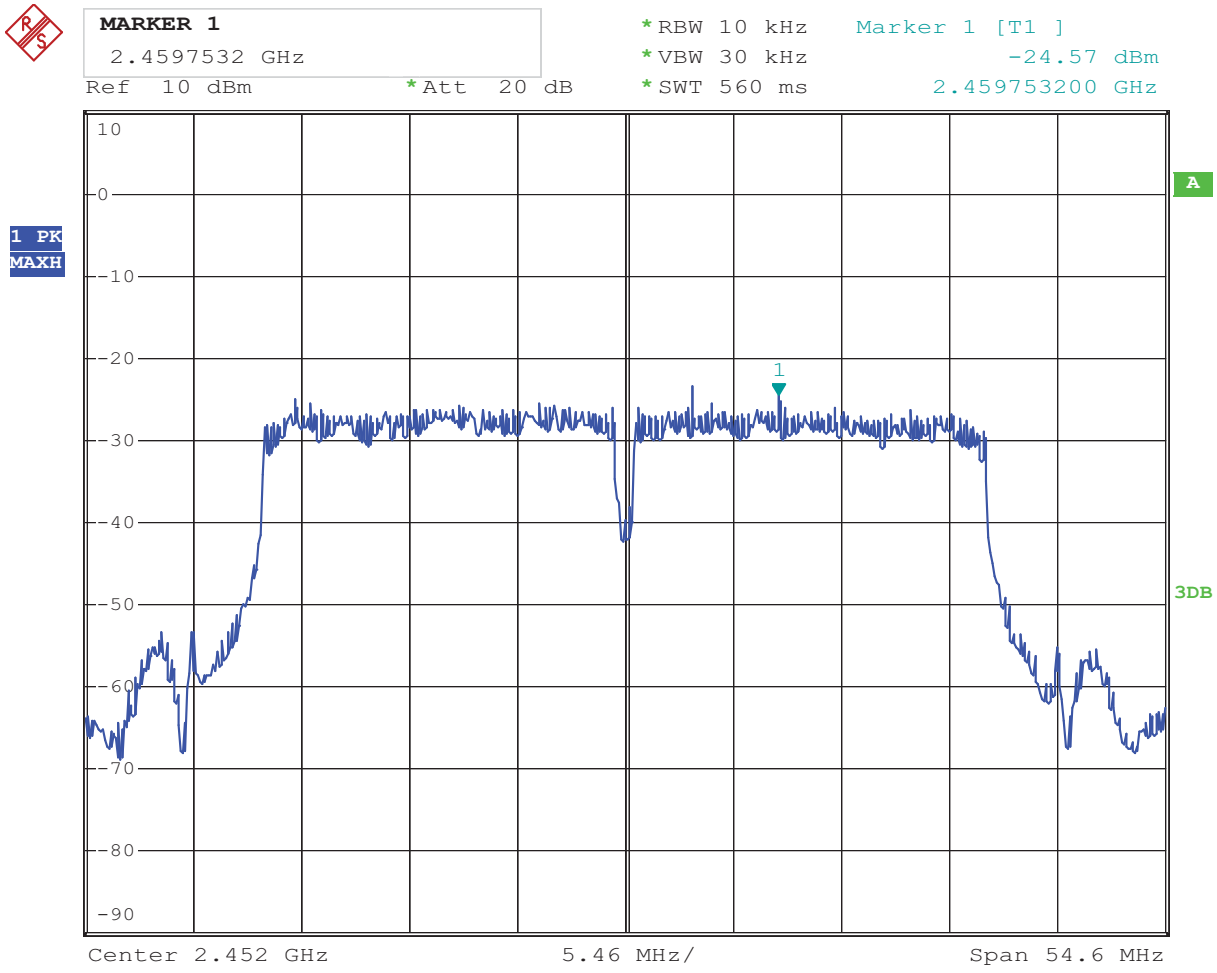
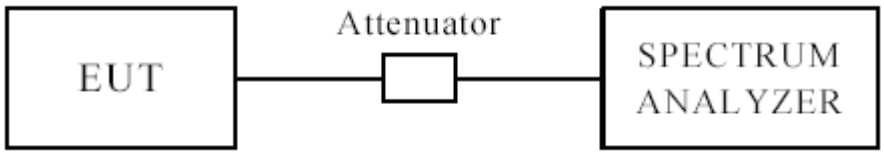
15. 802.11n at HT40 of CH07 65Mbps



10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.(Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100kHz,VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. this is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

2. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

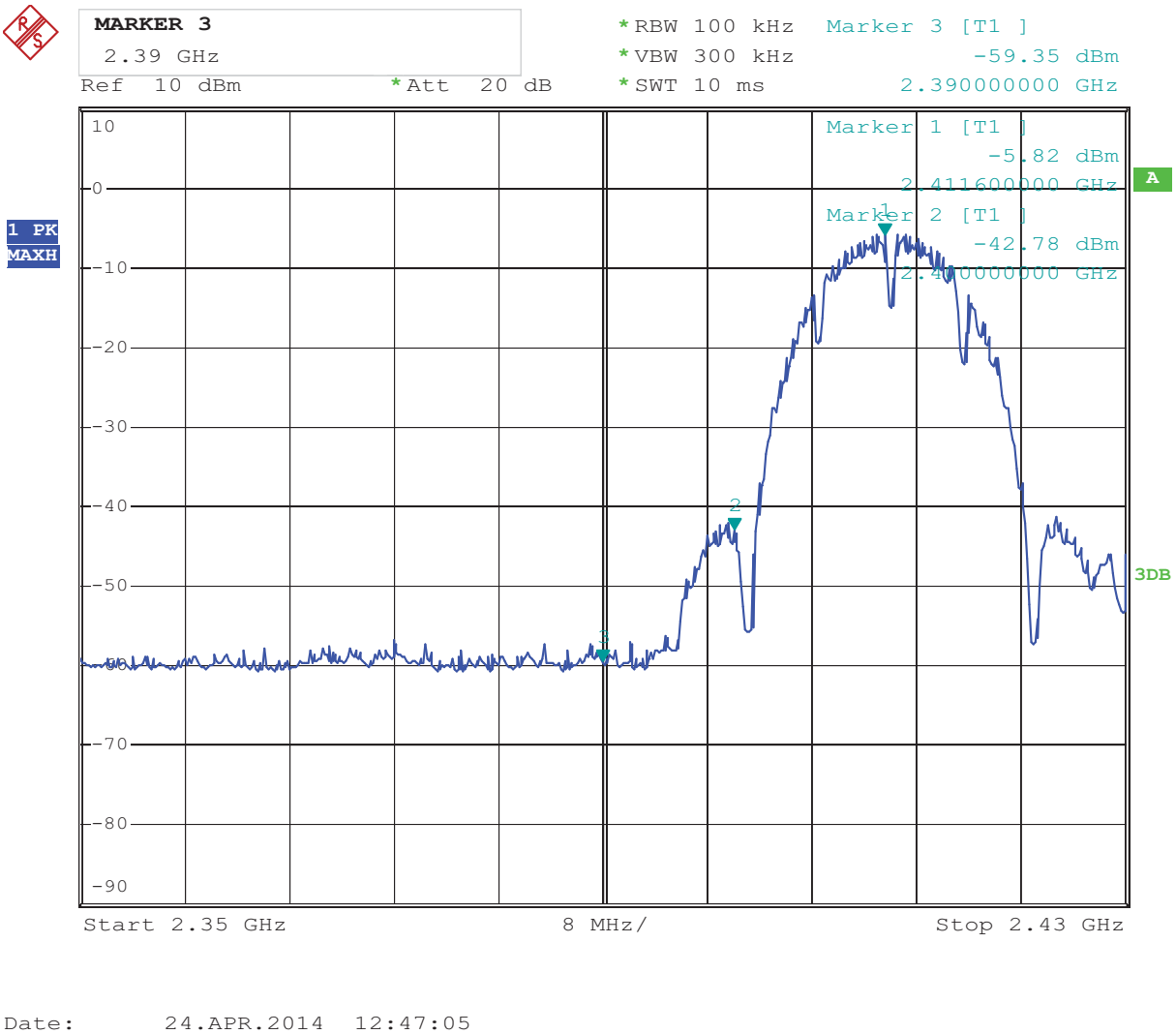
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBμV/m)	48.15	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390MHz	PK (dBμV/m)	37.27	Limit	74(dBμV/m)
	AV (dBμV/m)			54(dBμV/m)

Test Figure:



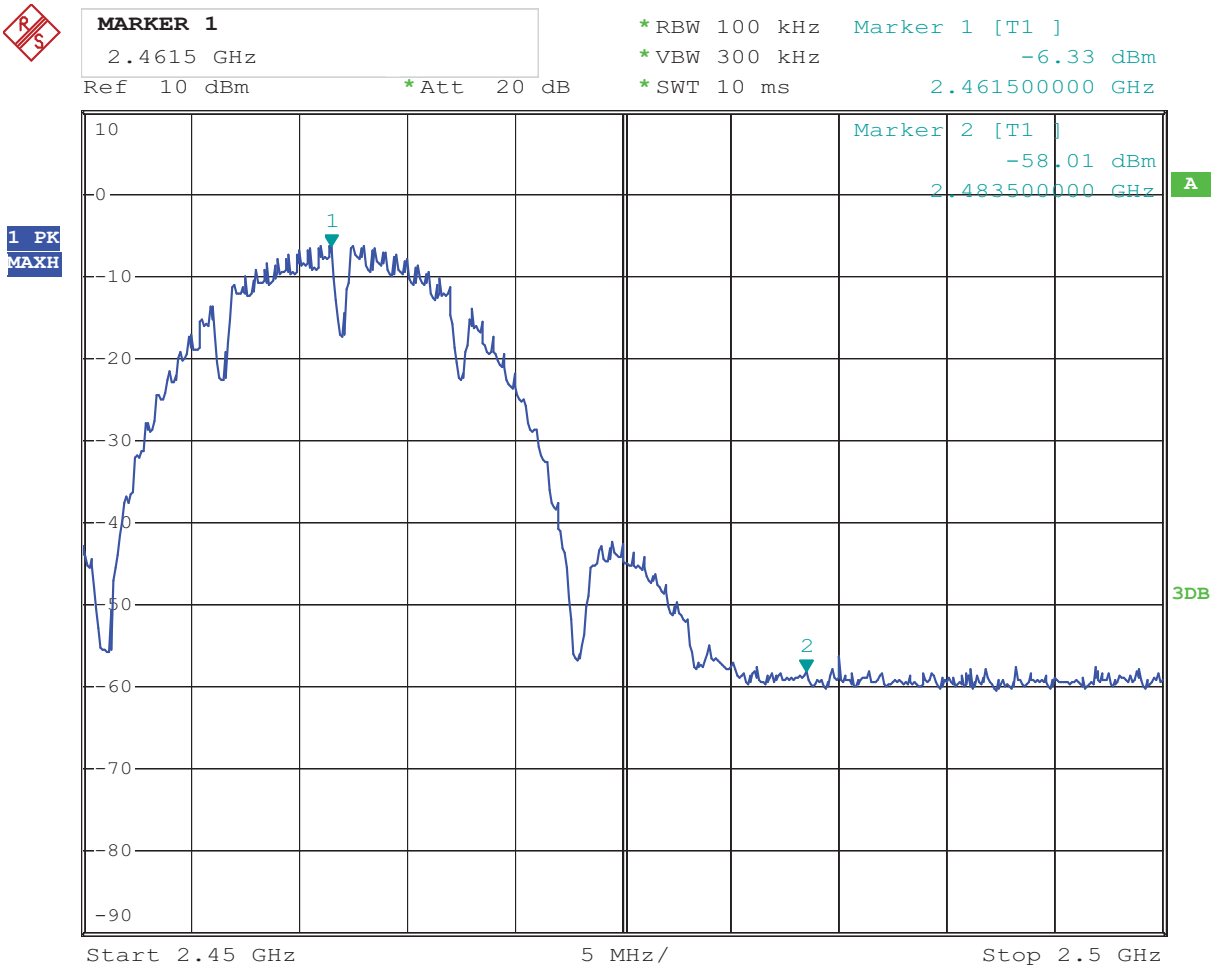
Date: 24.APR.2014 12:47:05

CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	41.20	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 24.APR.2014 12:58:14

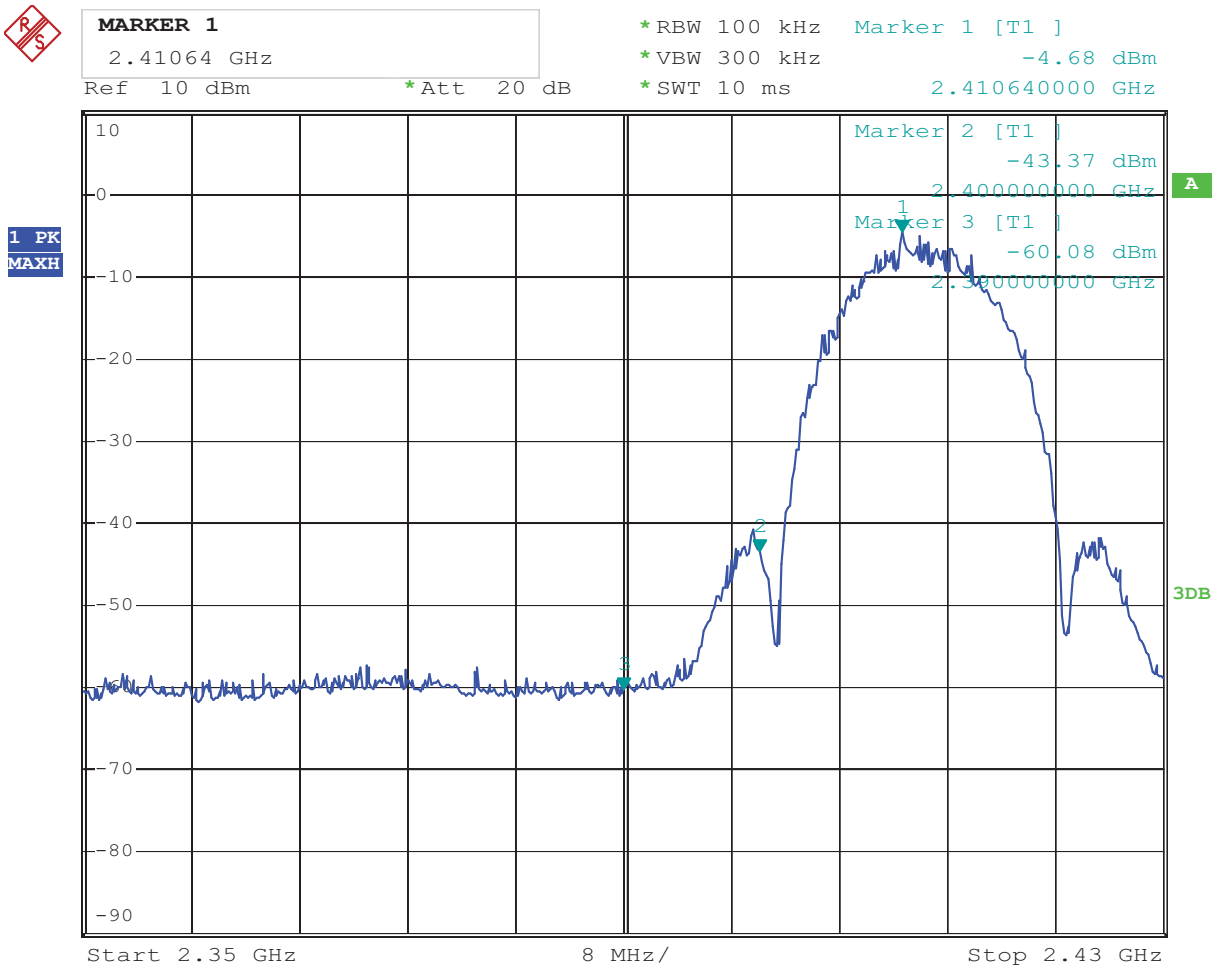
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBμV/m)	49.82	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390MHz	PK (dBμV/m)	40.24	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



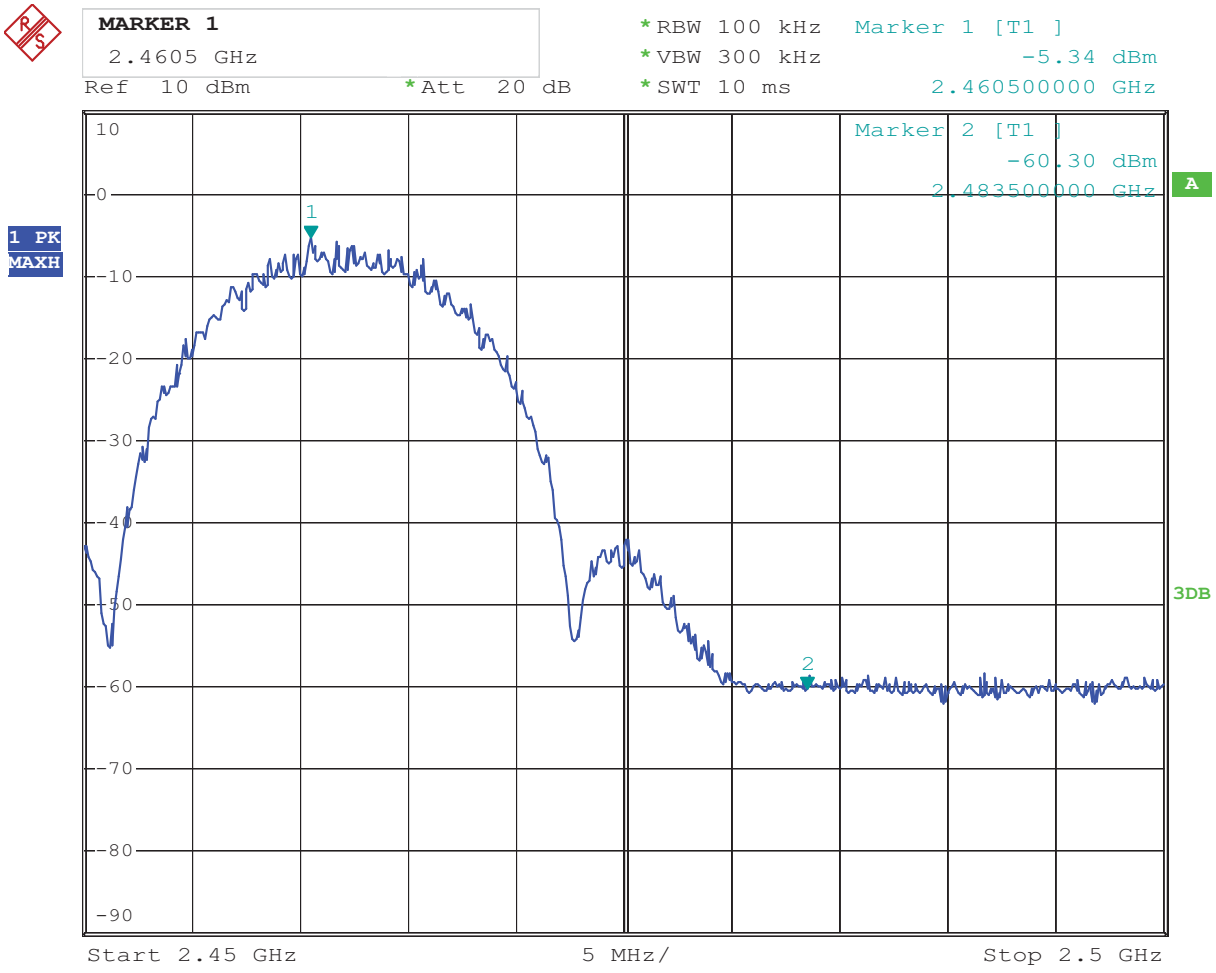
Date: 24.APR.2014 12:50:53

CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	43.35	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 24.APR.2014 13:00:37

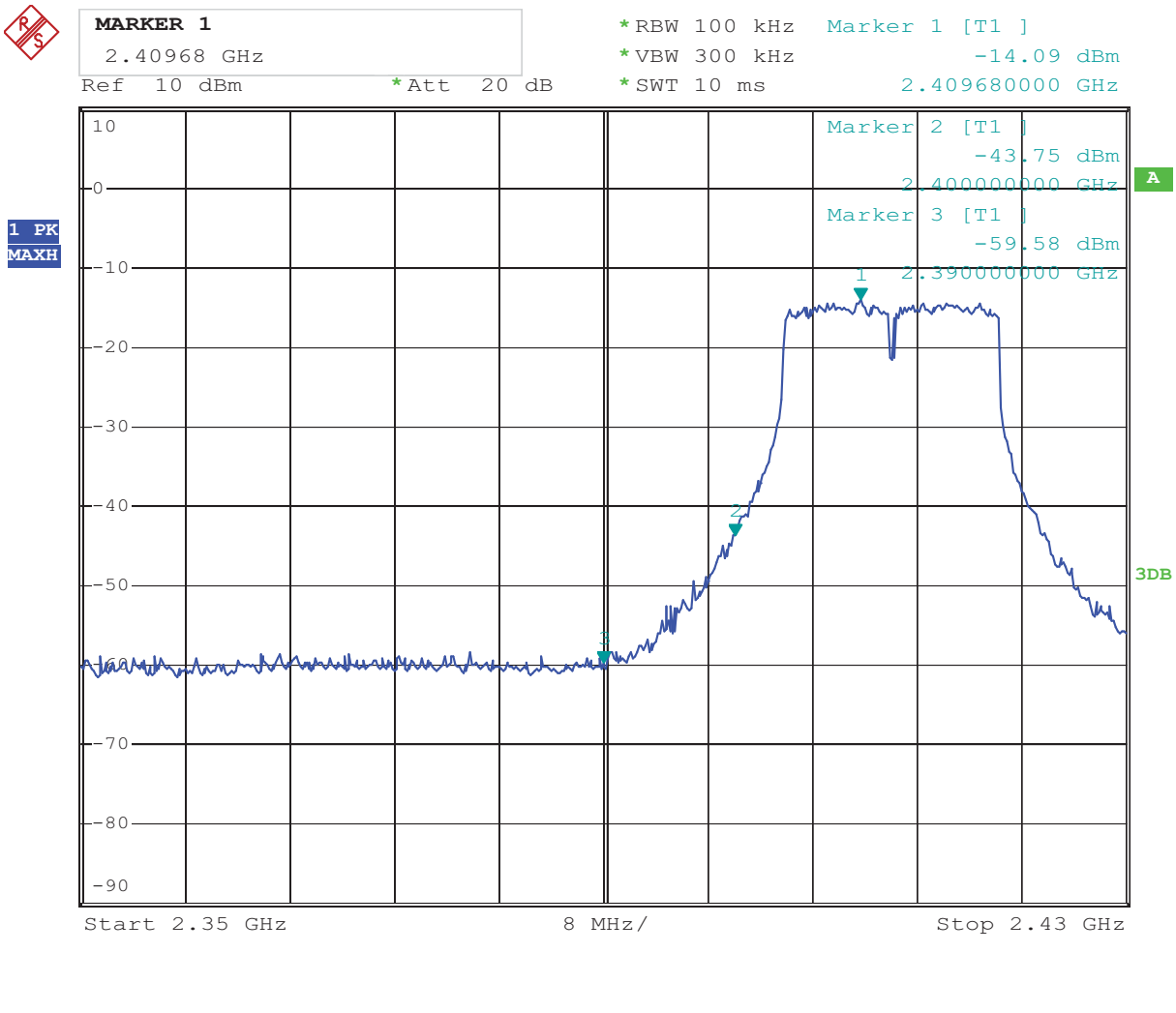
For 802.11g mode

CH01 at 54Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBμV/m)	50.19	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390MHz	PK (dBμV/m)	40.21	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



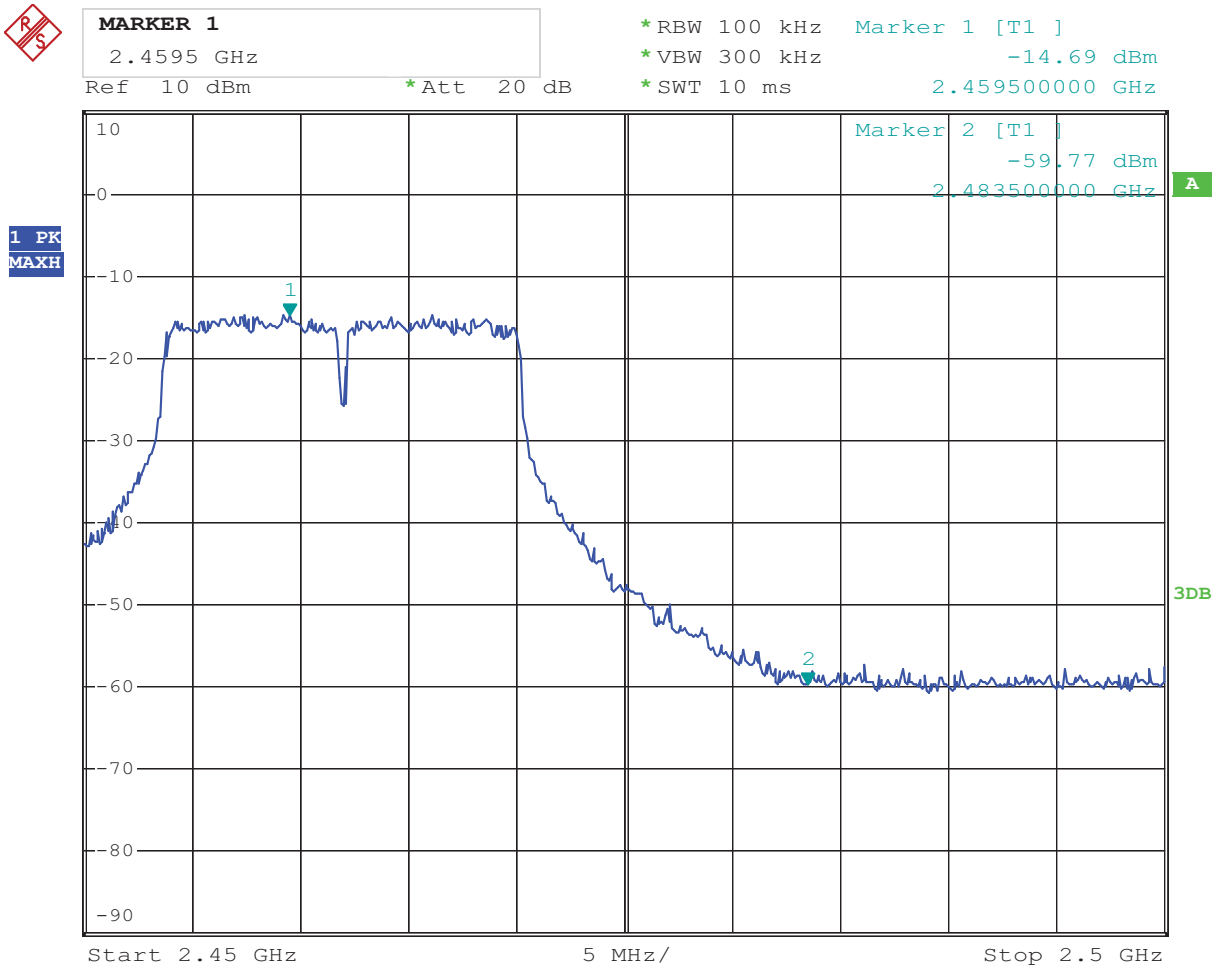
Date: 24.APR.2014 12:48:59

CH11 at 54Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	44.16	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 24.APR.2014 13:00:01

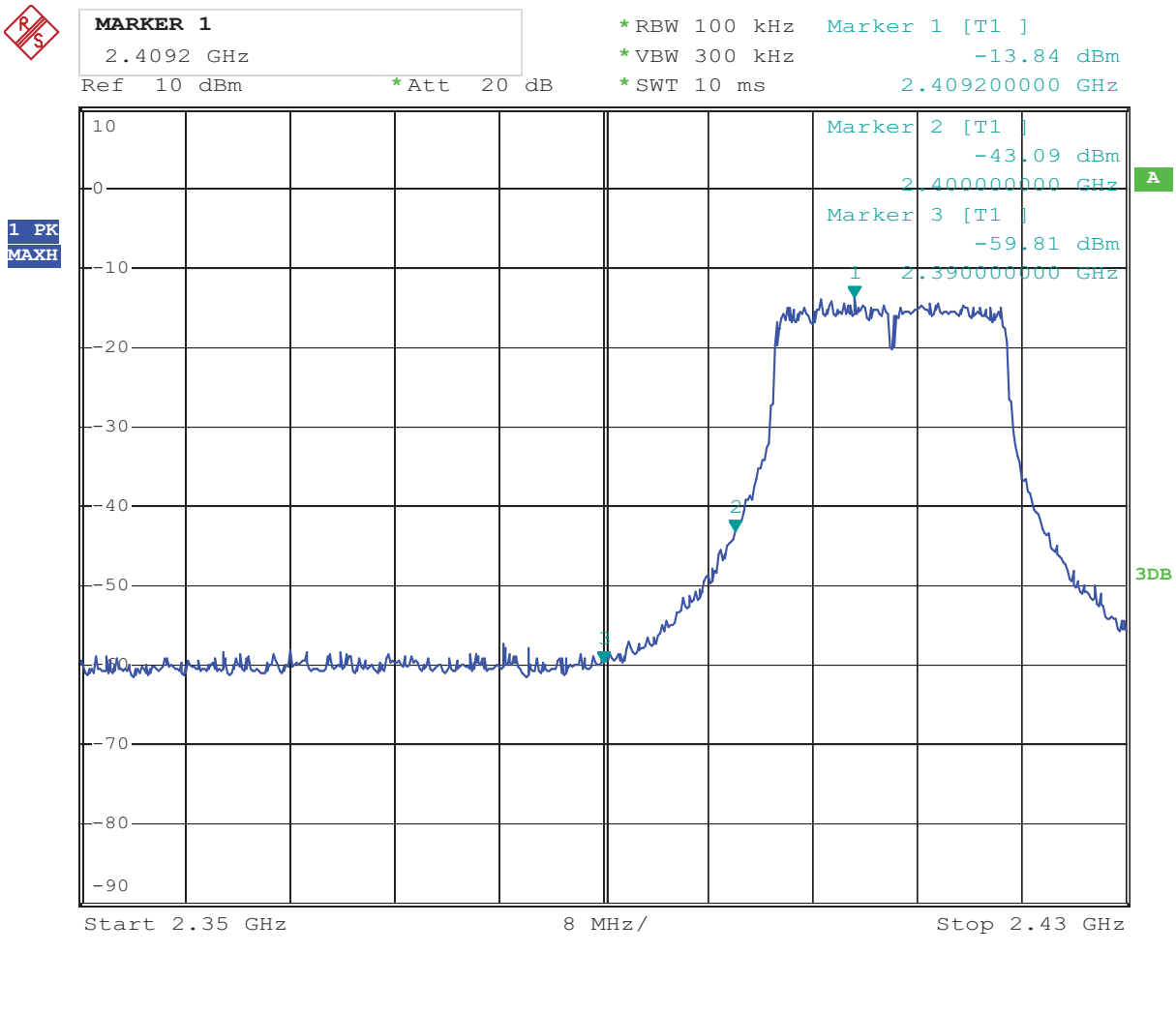
For 802.11n mode

CH01 at HT20 65Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBμV/m)	51.82	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390MHz	PK (dBμV/m)	41.83	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



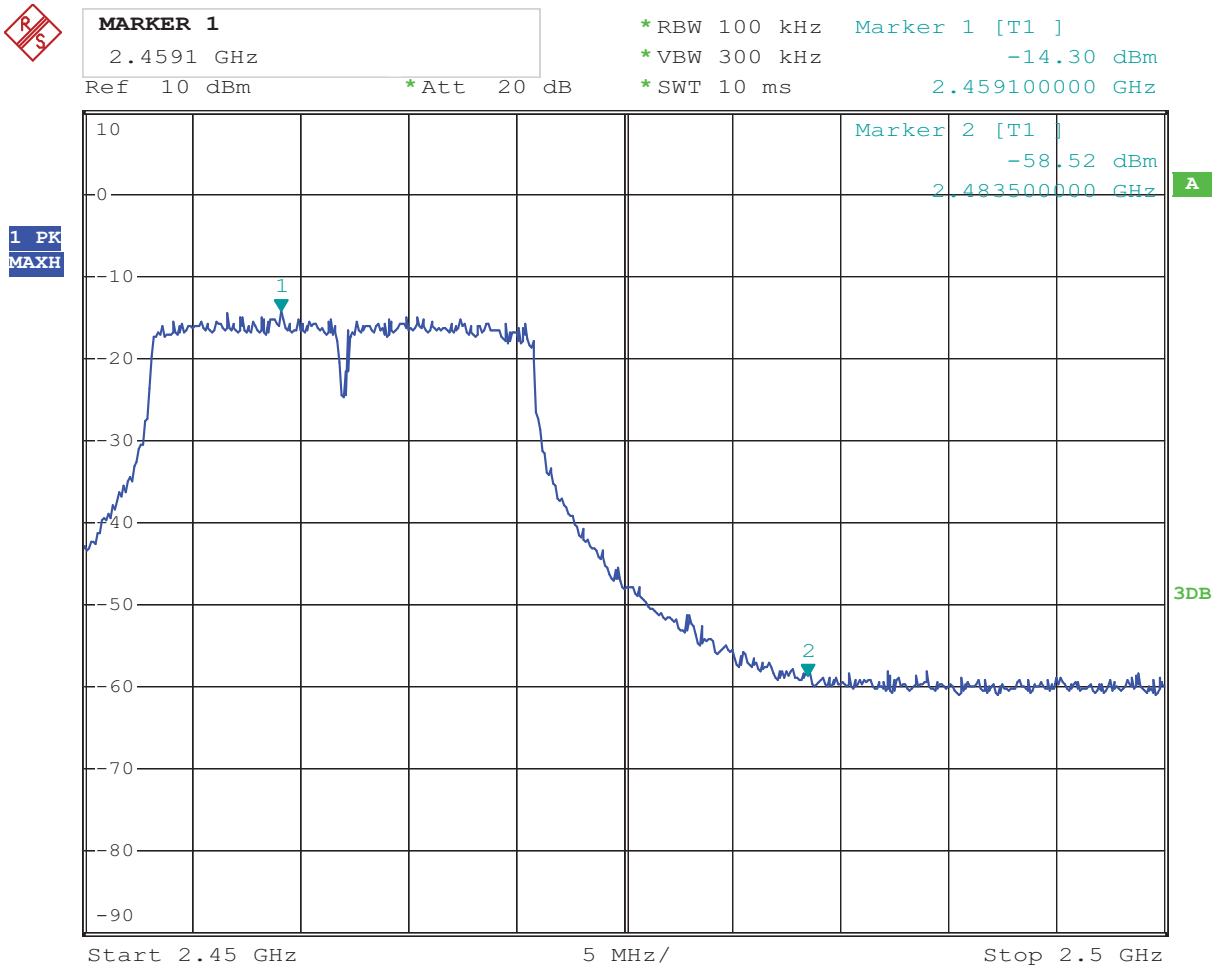
Date: 24.APR.2014 12:51:35

CH11 at HT20 65Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	44.07	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 24.APR.2014 13:01:36

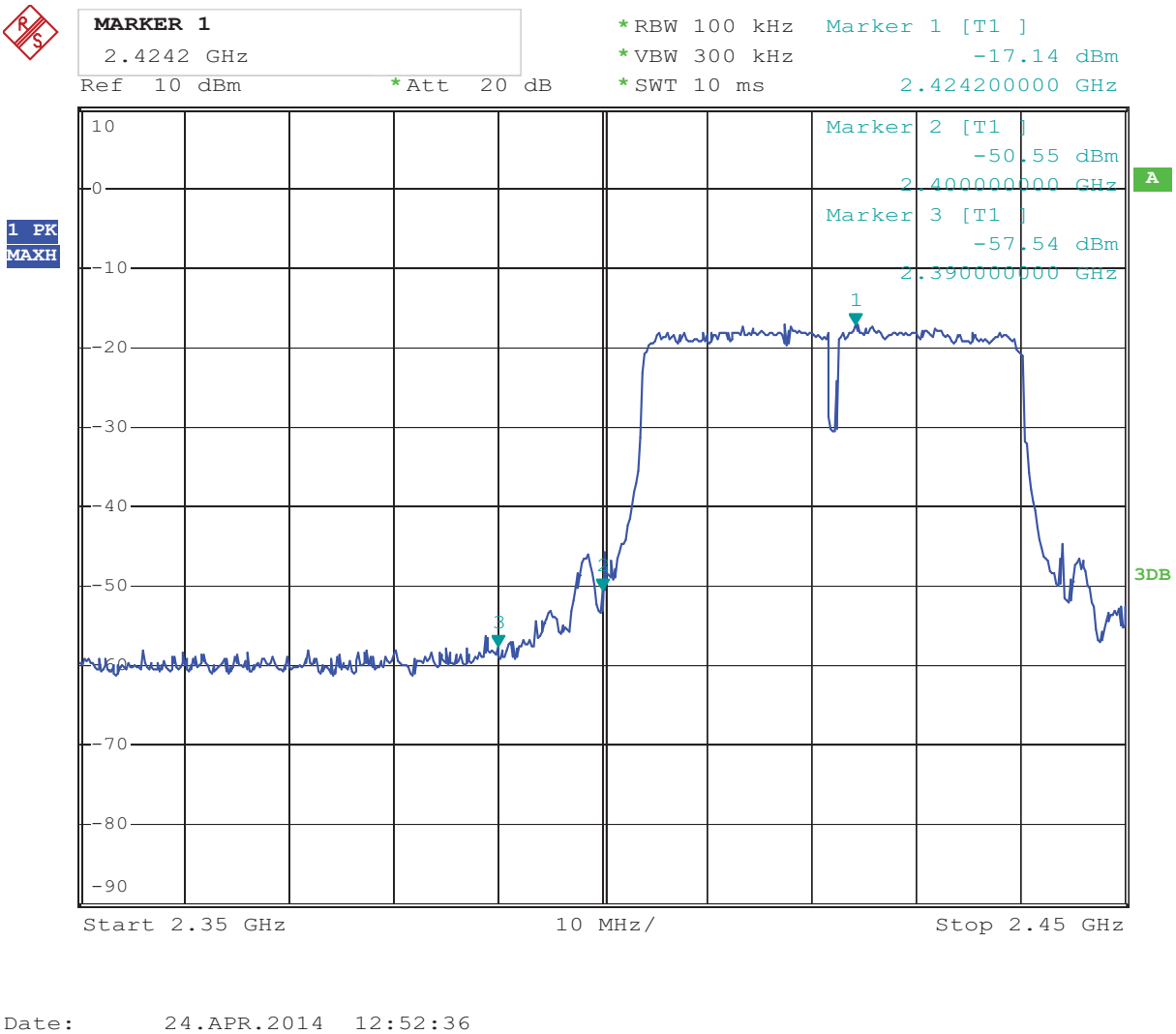
For 802.11n mode

CH01 at HT40 65Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dBμV/m)	47.89	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390MHz	PK (dBμV/m)	40.13	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



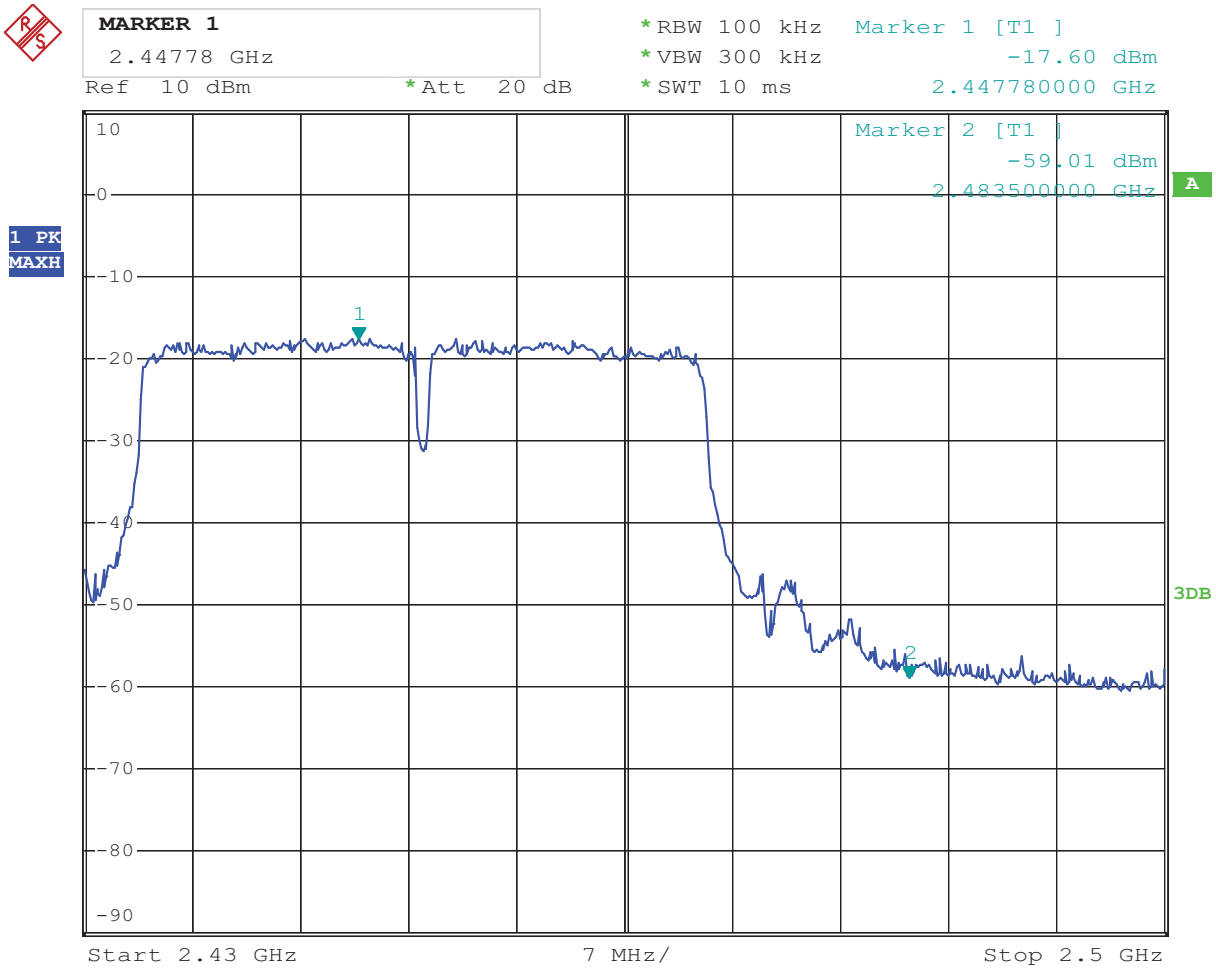
Date: 24.APR.2014 12:52:36

CH11 at HT40 65Mbps

10.4 Band-edge Measurement

EUT	MID		Model	MID727BT-RK326
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	46.34	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 24.APR.2014 13:02:44

11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integral antenna used. The maximum Gain of the antennas is 2.0dBi.

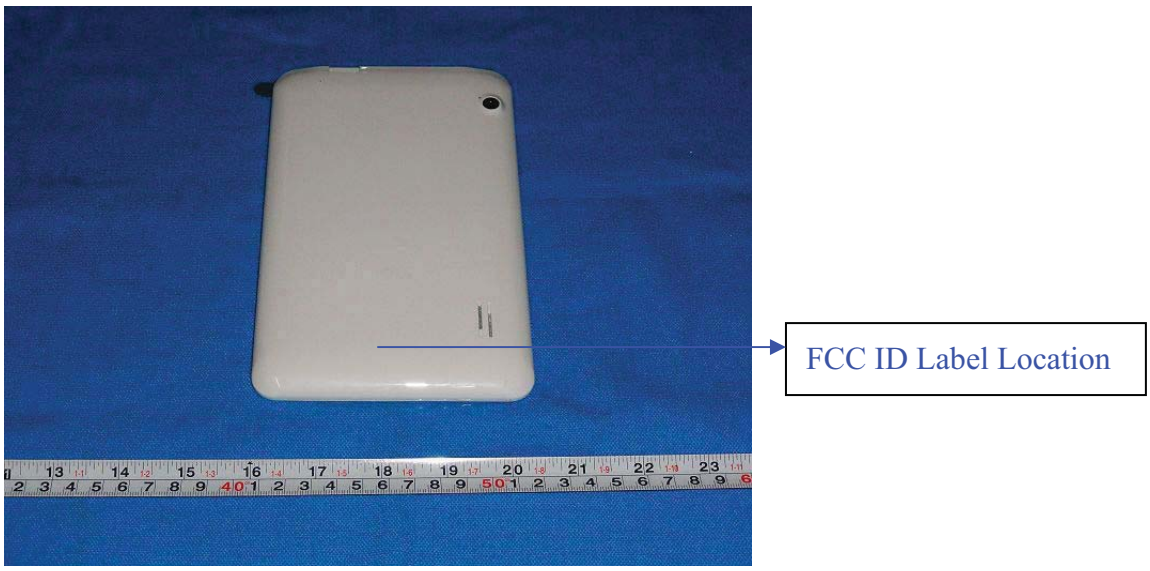
12.0 FCC ID Label

FCC ID: 2AAQZMID727B1-RK326

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

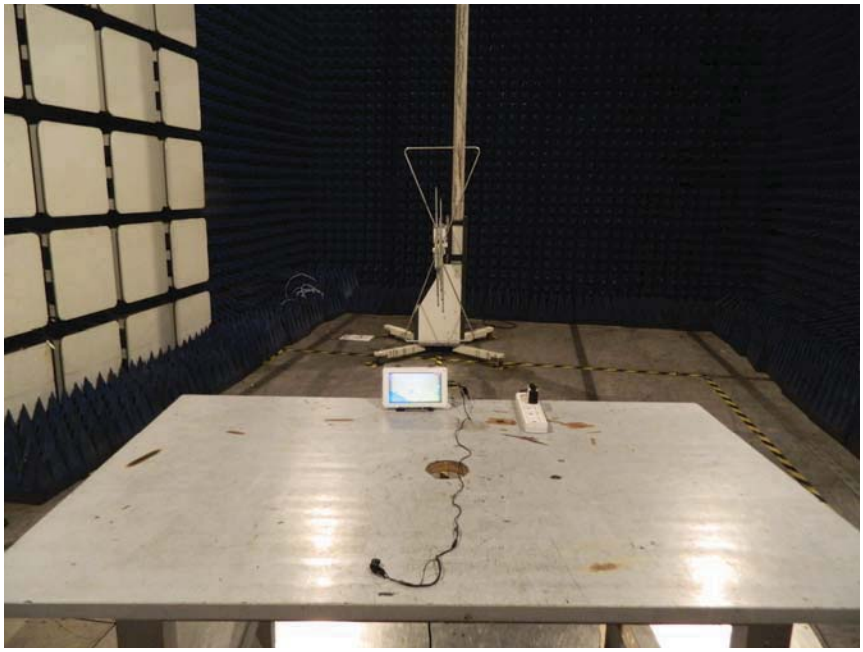
Mark Location:

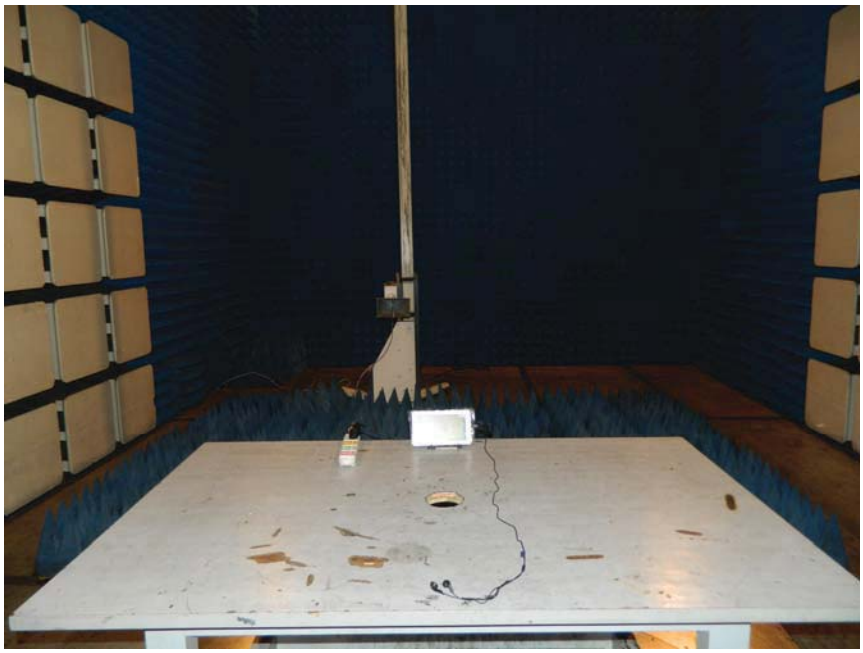


13 PHOTOGRAPHS OF THE TEST CONFIGURATION

Conducted Emissions

Radiated Emissions





PHOTOGRAPHS OF EUT

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Photo 7

Photo 8

Photo 9

Photo 10

Photo 11

Photo 12

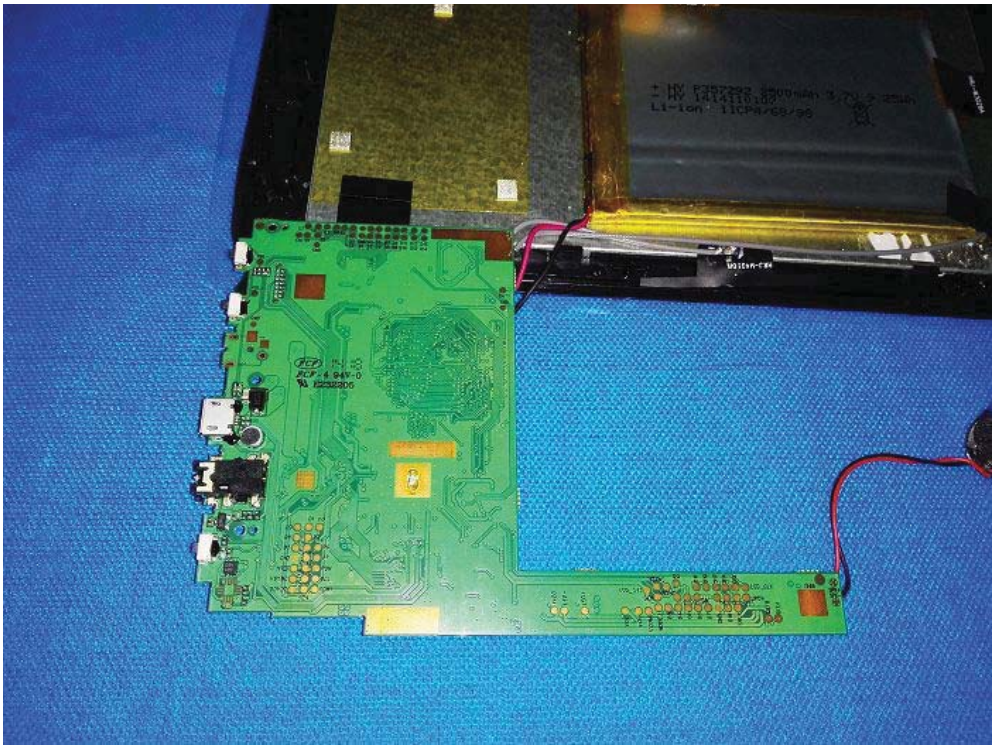


Photo 13

Photo 14 (Alternative Battery)

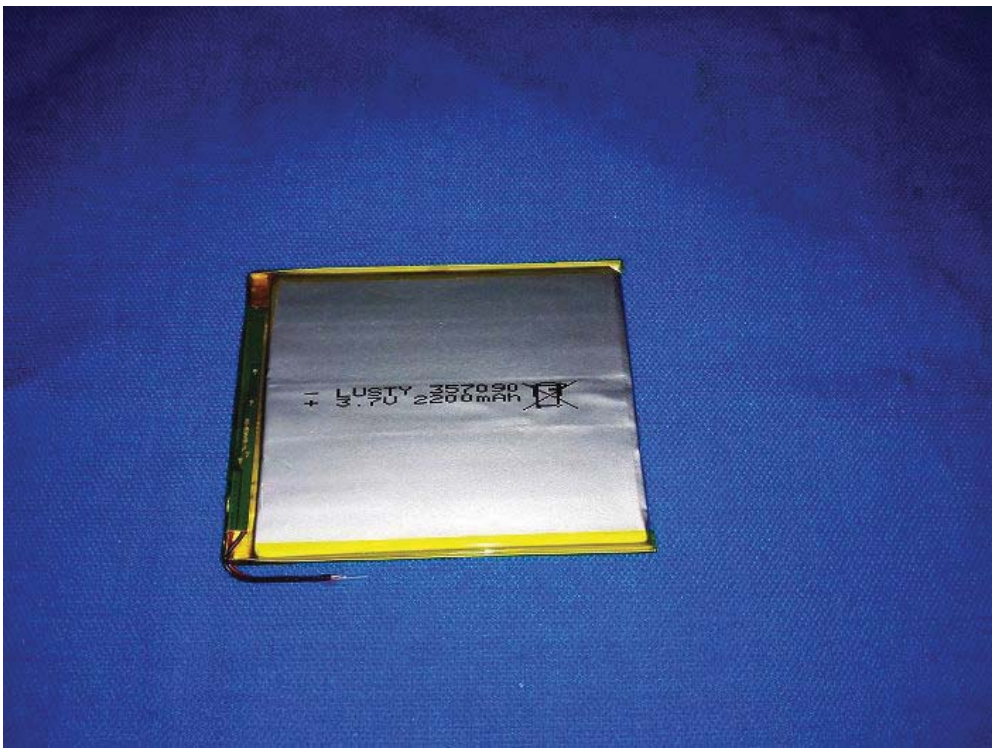


Photo 15 (Additional Battery)

Photo 16 (Additional Battery)

Photo 17 (Additional Battery)

The Report End