



2.4 GHz WLAN Test Report

FCC ID: R7RDMC2313

This report concerns (check one) : Original Grant Class II Change

Issued Date : Dec. 07, 2012

Project No. : 1211074

Equipment : WiFi Microscope

Model Name : DMC-2313

Applicant : VAST TECHNOLOGIES INC.

Address : 7F, NO. 80, SEC. 1, KUANG FU
RD.SANCHUNG, TAIPEI, TAIWAN,
R.O.C.

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Nov. 19, 2012

Date of Test: Nov. 19, 2012 ~ Nov. 30, 2012

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(Jeff Yang)

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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REPORT ISSUED HISTORY

Revised Version No.	Description	Issued Date
-	Initial Issue.	Dec. 07, 2012



1 CERTIFICATION

Equipment : WiFi Microscope

Model Name : DMC-2313

Applicant : VAST TECHNOLOGIES INC.

Date of Test : Nov. 19, 2012 ~ Nov. 30, 2012

Standards : FCC Part 15, Subpart C: 2010

ANSI C63.4: 2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1211074) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Standard Clause	Test Item	Result
15.207	Conducted Emission	N/A
15.247 (c)	Antenna conducted Spurious Emission	PASS
15.247 (a)(2)	6dB Bandwidth	PASS
15.247 (b)	Maximum Peak Conducted Output Power	PASS
15.247 (c)	Radiated Spurious Emission	PASS
15.247 (d)(e)	Power Spectral Density	PASS
15.205	Restricted Bands	PASS
15.203	Antenna Requirement	PASS
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS

NOTE:

1. **N/A:** denotes test is not applicable in this Test Report
2. Portable device; SAR report is required.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Radiated emission Test (Below 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC rules and for reference only.

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Radiated emission test:

Test Site	Item	Measurement Frequency Range	Uncertainty	NOTE
CB08	Radiated emission at 3m	Horizontal Polarization	30 - 200MHz	3.35 dB
			200 - 1000MHz	3.11 dB
			1 - 18GHz	3.97 dB
			18 - 40GHz	4.01 dB
	Vertical Polarization	Vertical Polarization	30 - 200MHz	3.22 dB
			200 - 1000MHz	3.24 dB
			1 - 18GHz	4.05 dB
			18 - 40GHz	4.04 dB

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	WiFi Microscope																
Model Name	DMC-2313																
OEM Brand/Model Name	N/A																
Model Difference	N/A																
Product Description	<p>The EUT is a WiFi Microscope.</p> <table border="1"><tr><td>Operation Frequency</td><td>2412~2462 MHz</td></tr><tr><td>Modulation Type</td><td>802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM</td></tr><tr><td>Bit Rate of Transmitter</td><td>IEEE 802.11b: 1, 2, 5.5 and 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n(20M): MCS0-7, Support up to 72Mbps IEEE 802.11n(40M): MCS0-7, Support up to 150Mbps OFDM, Peak rate 150Mbps, Peak throughput 90Mbps.</td></tr><tr><td>Number Of Channel</td><td>Please refer to the Note 2.</td></tr><tr><td>Antenna Designation</td><td>Please refer to the Note 3.</td></tr><tr><td>Antenna Gain(Peak)</td><td>Please refer to the Note 3.</td></tr><tr><td>Maximum Peak Conducted Output Power:</td><td>2412-2462 MHz Band: IEEE 802.11b: 0.71 dBm(Peak)/ -1.93 dBm(Avg) IEEE 802.11g: 13.41 dBm(Peak)/ 2.08 dBm(Avg) IEEE 802.11n(20 MHz): 12.55 dBm(Peak)/ 2.3 dBm(Avg) 2422-2452 MHz Band: IEEE 802.11n(40 MHz): 10.17 dBm(Peak)/ -0.17 dBm(Avg)</td></tr><tr><td colspan="2">Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr></table>	Operation Frequency	2412~2462 MHz	Modulation Type	802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM	Bit Rate of Transmitter	IEEE 802.11b: 1, 2, 5.5 and 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n(20M): MCS0-7, Support up to 72Mbps IEEE 802.11n(40M): MCS0-7, Support up to 150Mbps OFDM, Peak rate 150Mbps, Peak throughput 90Mbps.	Number Of Channel	Please refer to the Note 2.	Antenna Designation	Please refer to the Note 3.	Antenna Gain(Peak)	Please refer to the Note 3.	Maximum Peak Conducted Output Power:	2412-2462 MHz Band: IEEE 802.11b: 0.71 dBm(Peak)/ -1.93 dBm(Avg) IEEE 802.11g: 13.41 dBm(Peak)/ 2.08 dBm(Avg) IEEE 802.11n(20 MHz): 12.55 dBm(Peak)/ 2.3 dBm(Avg) 2422-2452 MHz Band: IEEE 802.11n(40 MHz): 10.17 dBm(Peak)/ -0.17 dBm(Avg)	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Operation Frequency	2412~2462 MHz																
Modulation Type	802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM																
Bit Rate of Transmitter	IEEE 802.11b: 1, 2, 5.5 and 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n(20M): MCS0-7, Support up to 72Mbps IEEE 802.11n(40M): MCS0-7, Support up to 150Mbps OFDM, Peak rate 150Mbps, Peak throughput 90Mbps.																
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Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.																	
Power Source	Battery supplied.																
Power Rating	I/P: DC 4.5V																
Connecting I/O Port(s)	Please refer to the User's Manual																
Products Covered	N/A																
EUT Modification(s)	N/A																



NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Channel List:

2412-2462 MHz Band (IEEE 802.11b/g/n (20MHz))					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

2422-2452 MHz Band (IEEE 802.11n (40MHz))					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452
04	2427	07	2442		
05	2432	08	2447		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	WIRE	Solder	2.79



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Items	IEEE	Mode	Data Rate	Channel	Note
Conducted Emission	802.11b	DSSS	1 Mbps	06	
Antenna conducted Spurious Emission	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS8	01/06/11	
	802.11n (40 MHz)	BPSK	MCS8	03/06/09	
6 dB Bandwidth	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS8	01/06/11	
	802.11n (40 MHz)	BPSK	MCS8	03/06/09	
Maximum Peak Conducted Output Power	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS8	01/06/11	
	802.11n (40 MHz)	BPSK	MCS8	03/06/09	
Radiated Spurious Emission (30 MHz to 1 GHz)	802.11n (20 MHz)	OFDM	MCS8	06	
Radiated Spurious Emission (above 1 GHz)	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS8	01/06/11	
	802.11n (40 MHz)	BPSK	MCS8	03/06/09	
Restricted Bands	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS8	01/06/11	
	802.11n (40 MHz)	BPSK	MCS8	03/06/09	
Antenna Requirement	---		---	---	
RF Exposure Compliance	---		---	---	



3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

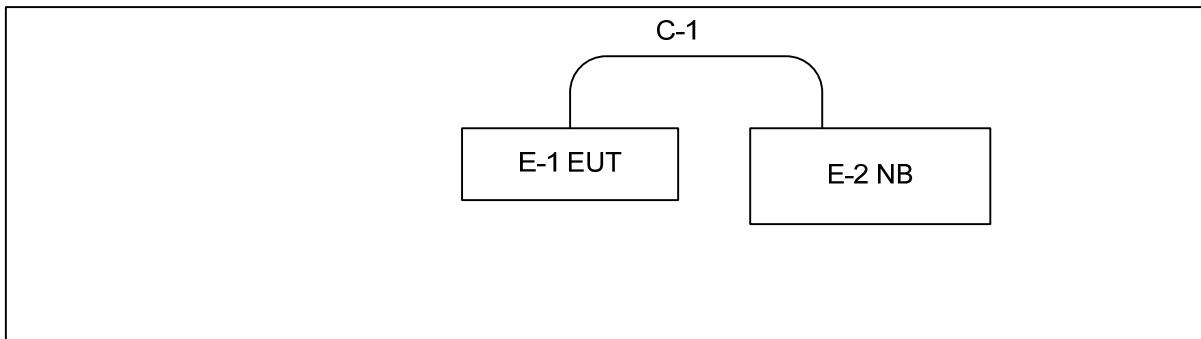
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

IEEE	802.11b			802.11g		
Test software Version	QA_RT3x7x_V1.5.6.6					
Frequency	2412 MHz	2437 MHz	2462 MHz	2412 MHz	2437 MHz	2462 MHz
Parameter	1	1	1	10	3	3

	2412-2462 MHz Band			2422-2452 MHz Band		
IEEE	802.11n (20 MHz)			802.11n (40 MHz)		
Test software Version	QA_RT3x7x_V1.5.6.6					
Frequency	2412 MHz	2437 MHz	2462 MHz	2422 MHz	2437 MHz	2452 MHz
Parameter	10	10	3	10	10	3



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	WiFi Microscope	N/A	DMC-2313	R7RDMC2313	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	45cm	USB

NOTE: The support equipment was authorized by Declaration of Conformity (DOC).



4 ANTENNA CONDUCTED SPURIOUS EMISSION

4.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Antenna conducted Spurious Emission	30-25000	20 dB less than the peak value of fundamental frequency

4.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 01, 2013

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

4.3 TEST PROCEDURES

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

4.4 TEST SETUP LAYOUT



4.5 DEVIATION FROM TEST STANDARD

No deviation

4.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



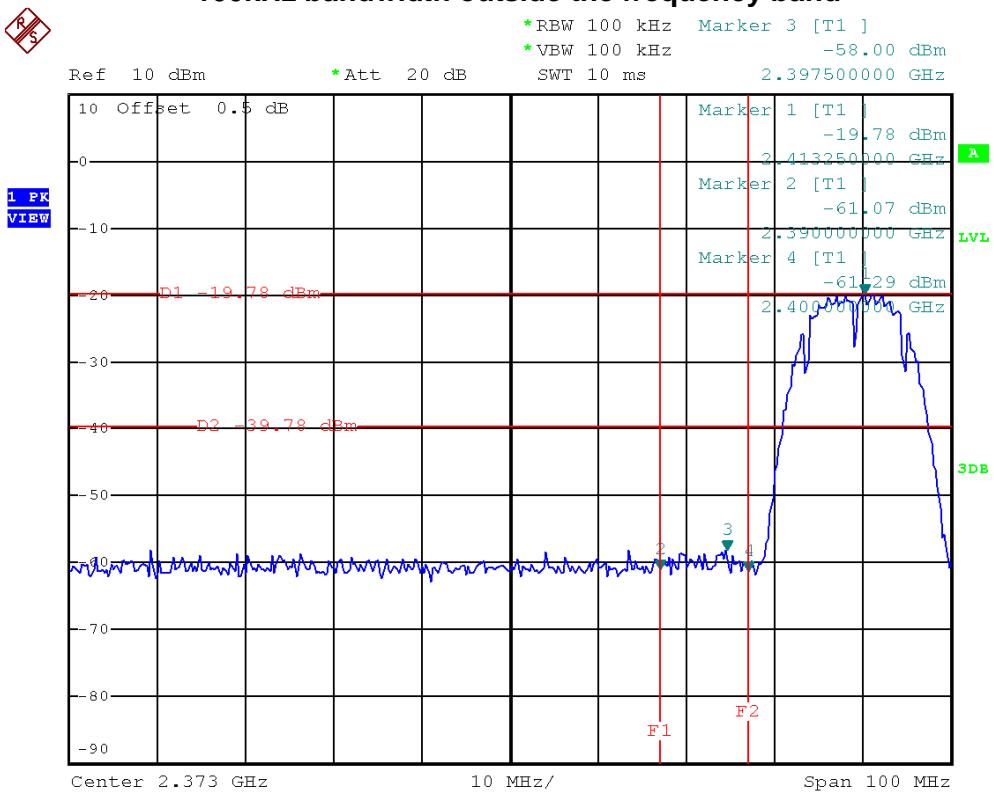
4.7 TEST RESULTS - 2400-2483.5 MHZ

E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		

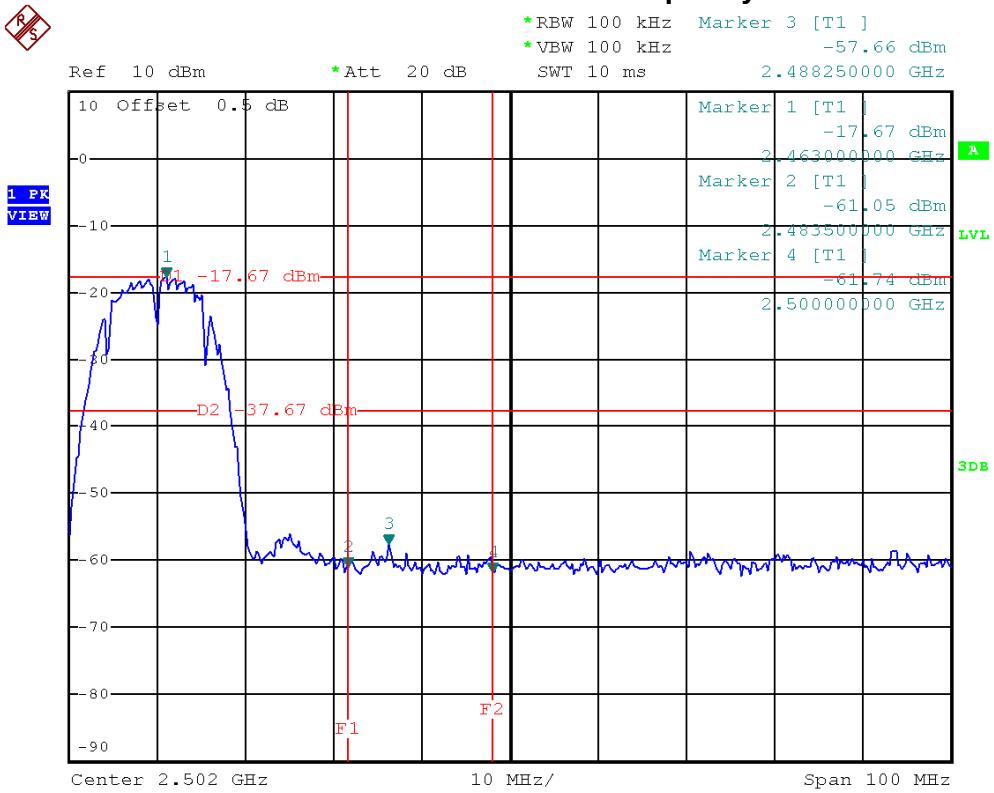
Channel of Worst Data			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2397.50	-58.00	2488.25	-57.66
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			



IEEE 802.11b/The max. radio frequency power in any 100kHz bandwidth outside the frequency band

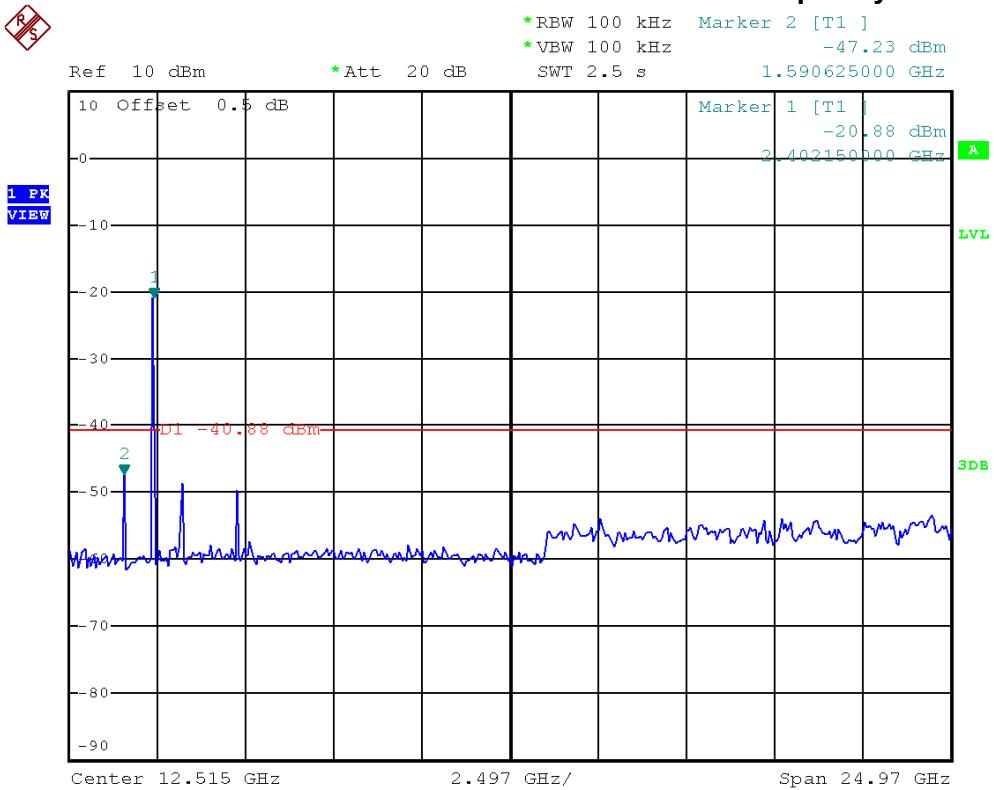


IEEE 802.11b/The max. radio frequency power in any 100 kHz bandwidth within the frequency band

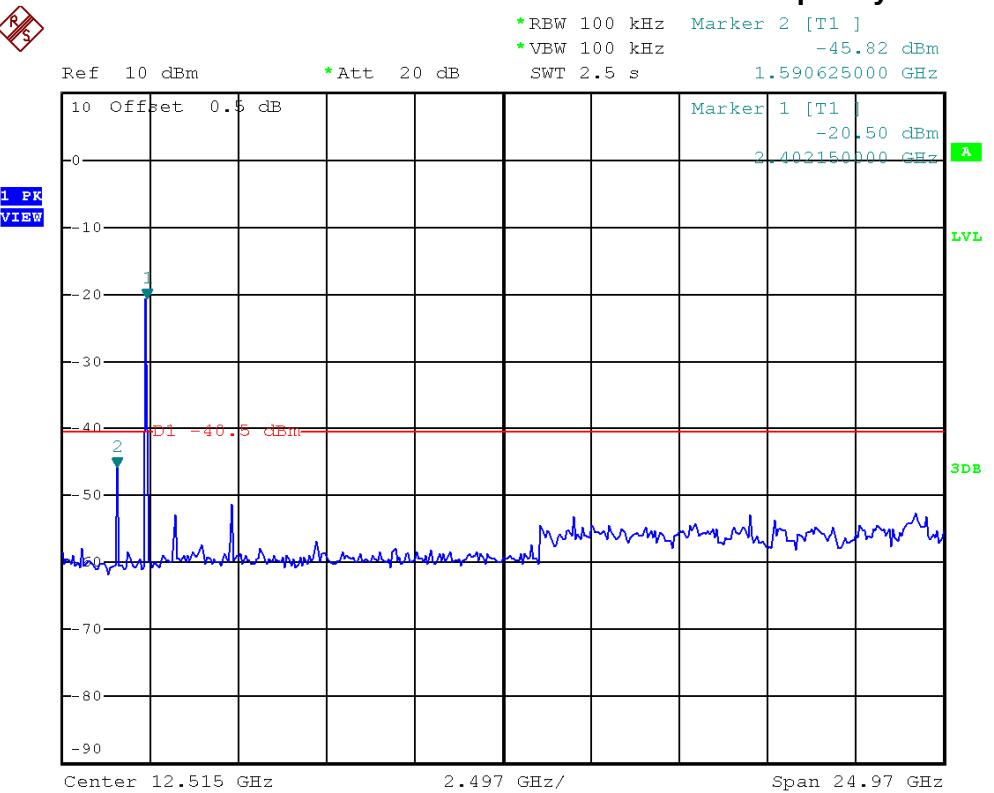




IEEE 802.11b/2412 MHz/10 Harmonic of the frequency

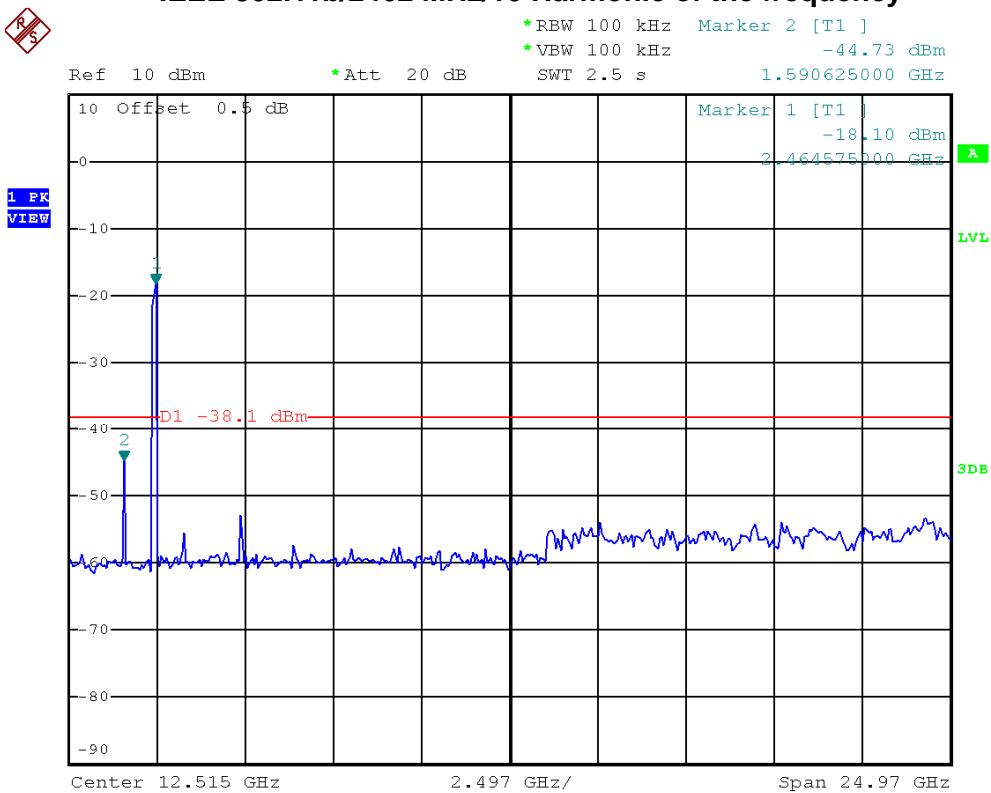


IEEE 802.11b/2437 MHz/10 Harmonic of the frequency





IEEE 802.11b/2462 MHz/10 Harmonic of the frequency





E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		

Channel of Worst Data

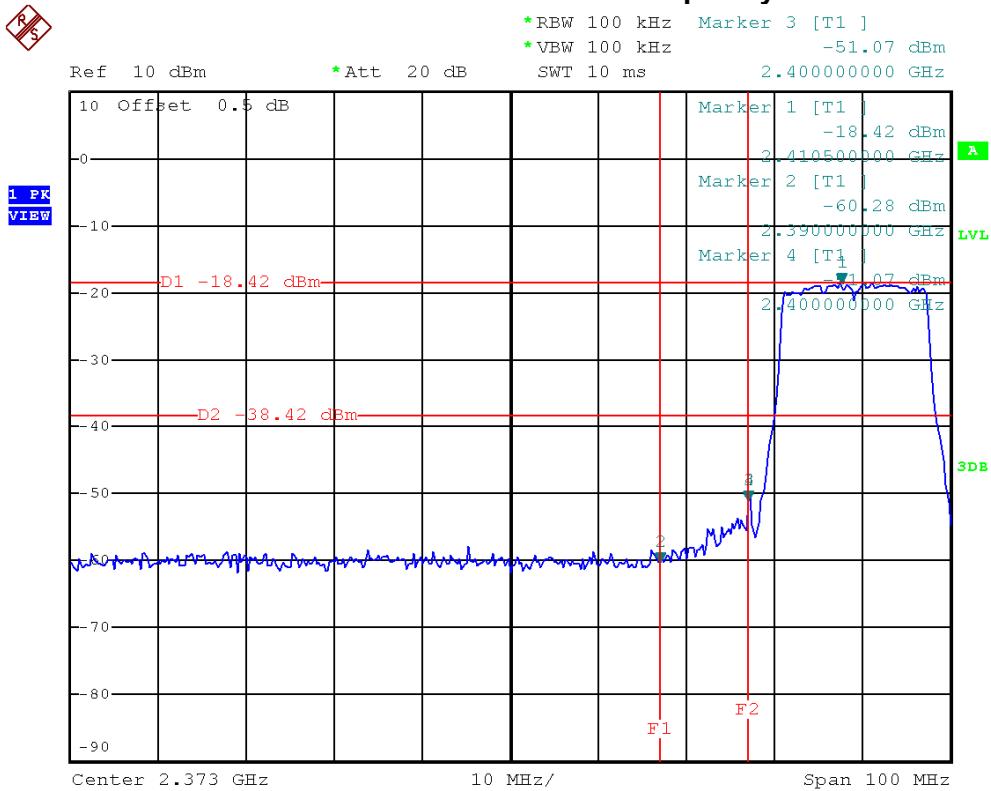
The max. radio frequency power in any 100kHz bandwidth outside the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-51.07	2494.00	-58.63

Result

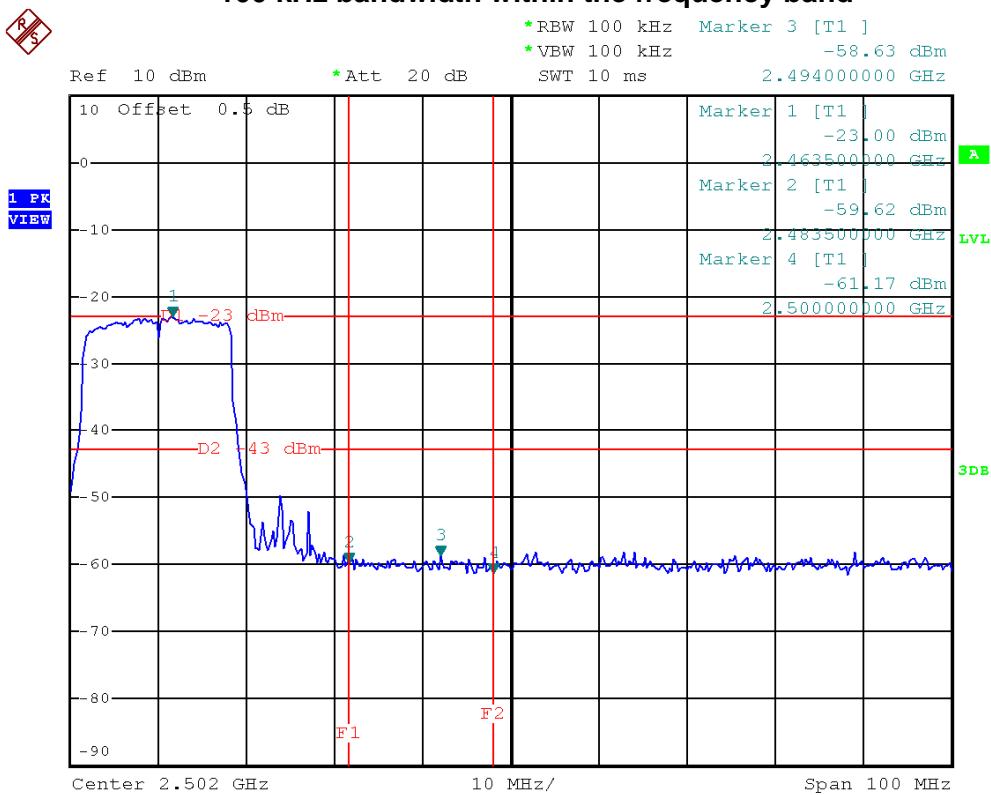
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.



IEEE 802.11g/The max. radio frequency power in any 100kHz bandwidth outside the frequency band

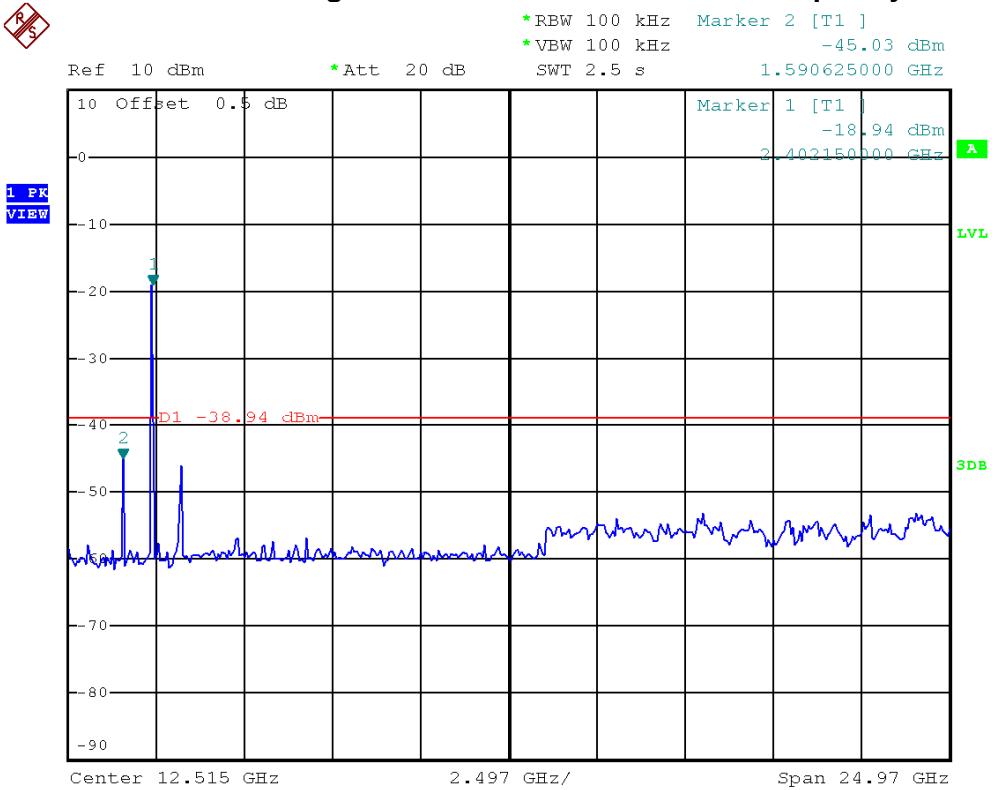


IEEE 802.11g/The max. radio frequency power in any 100 kHz bandwidth within the frequency band

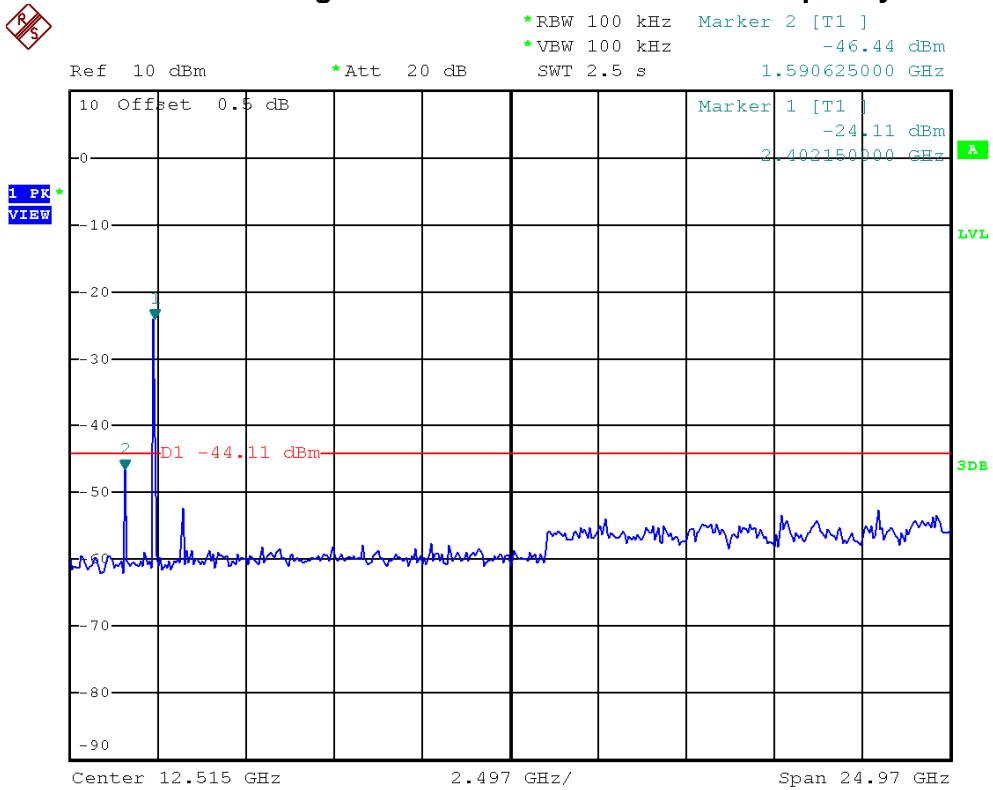




IEEE 802.11g/2412 MHz/10 Harmonic of the frequency

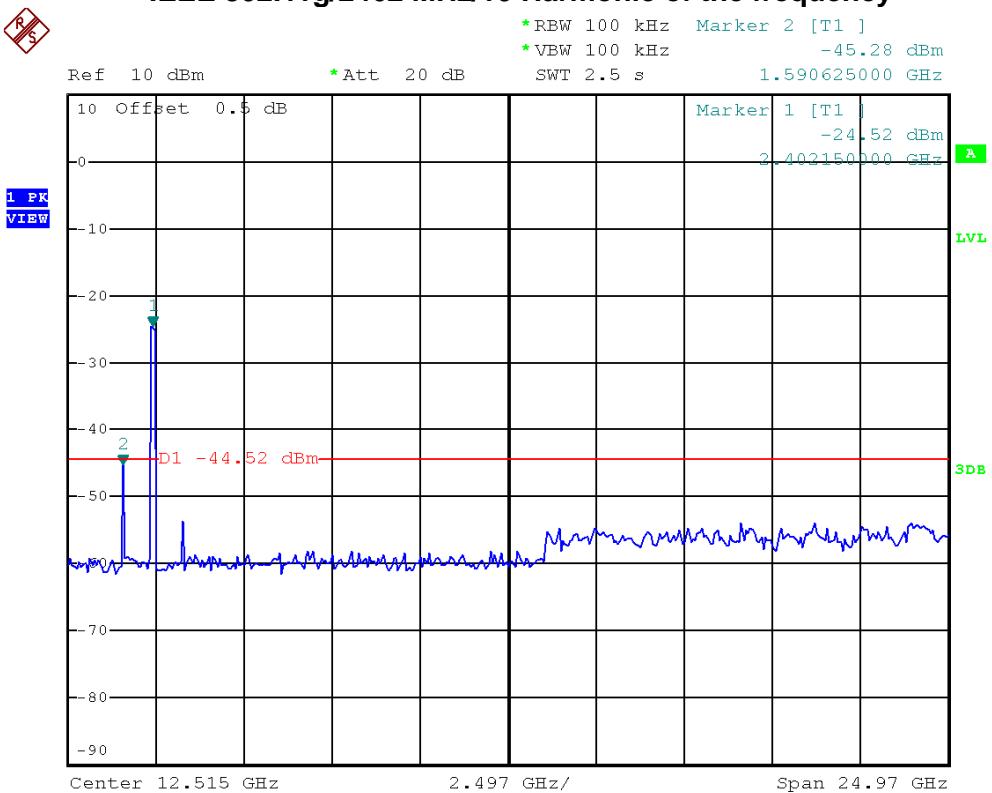


IEEE 802.11g/2437 MHz/10 Harmonic of the frequency





IEEE 802.11g/2462 MHz/10 Harmonic of the frequency





E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		

Channel of Worst Data

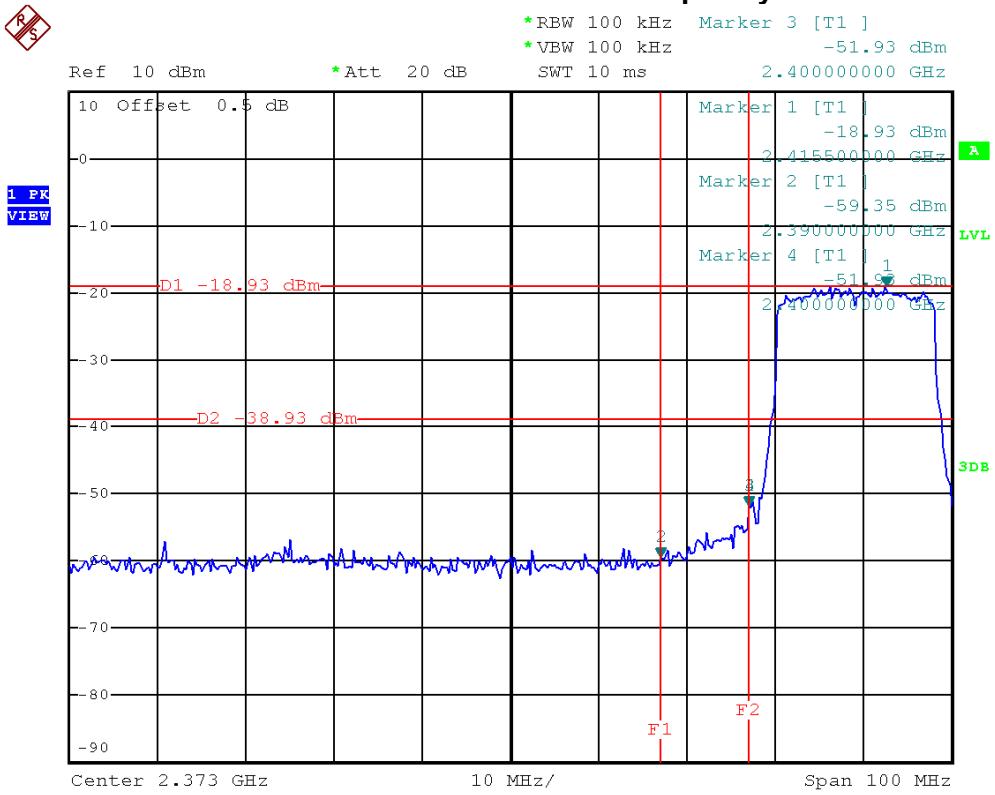
The max. radio frequency power in any 100kHz bandwidth outside the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-51.93	2485.25	-58.57

Result

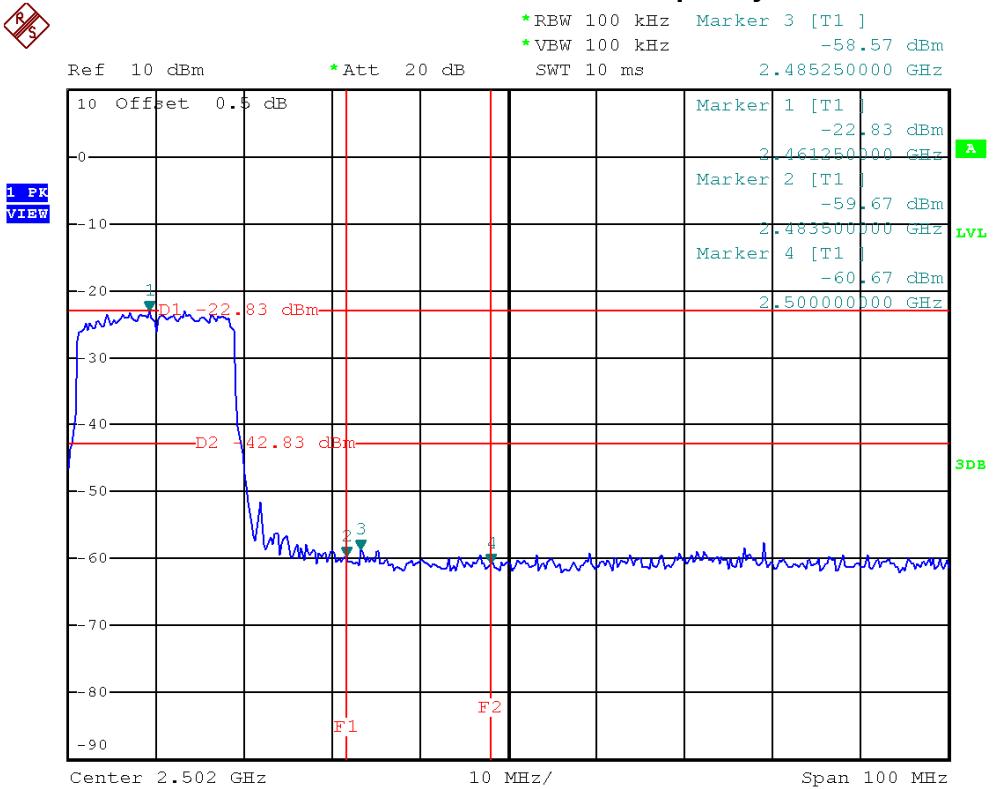
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.



IEEE 802.11n (20 MHz)/The max. radio frequency power in any 100kHz bandwidth outside the frequency band

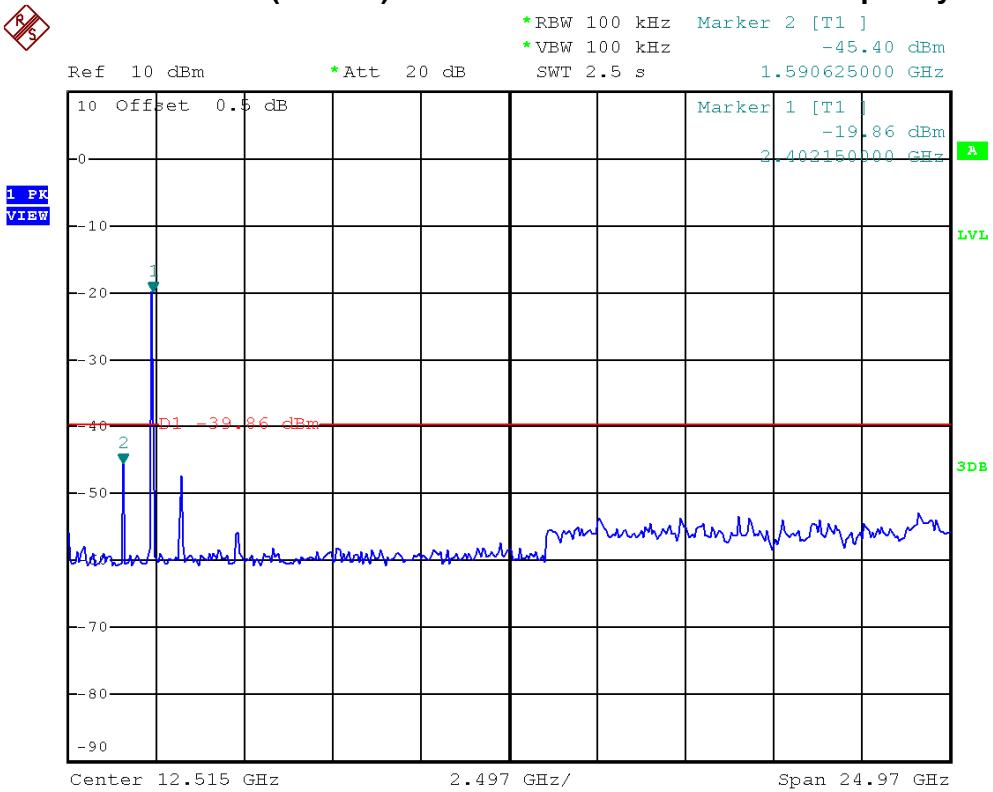


IEEE 802.11n (20 MHz)/The max. radio frequency power in any 100 kHz bandwidth within the frequency band

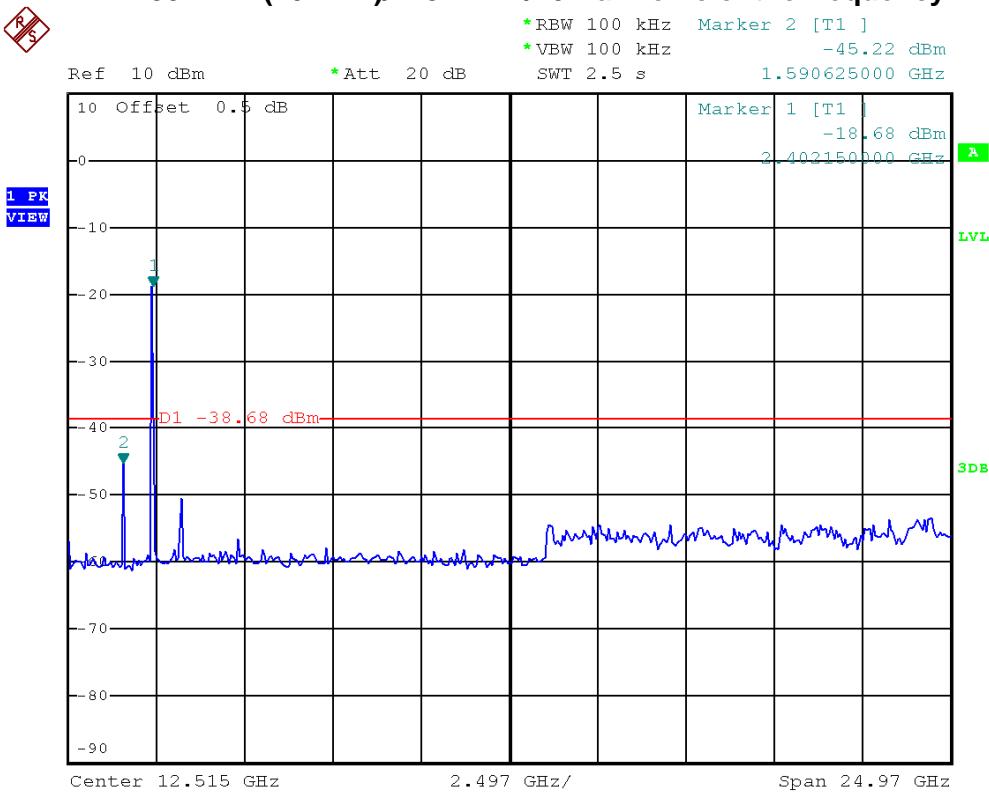




IEEE 802.11n (20 MHz)/2412 MHz/10 Harmonic of the frequency

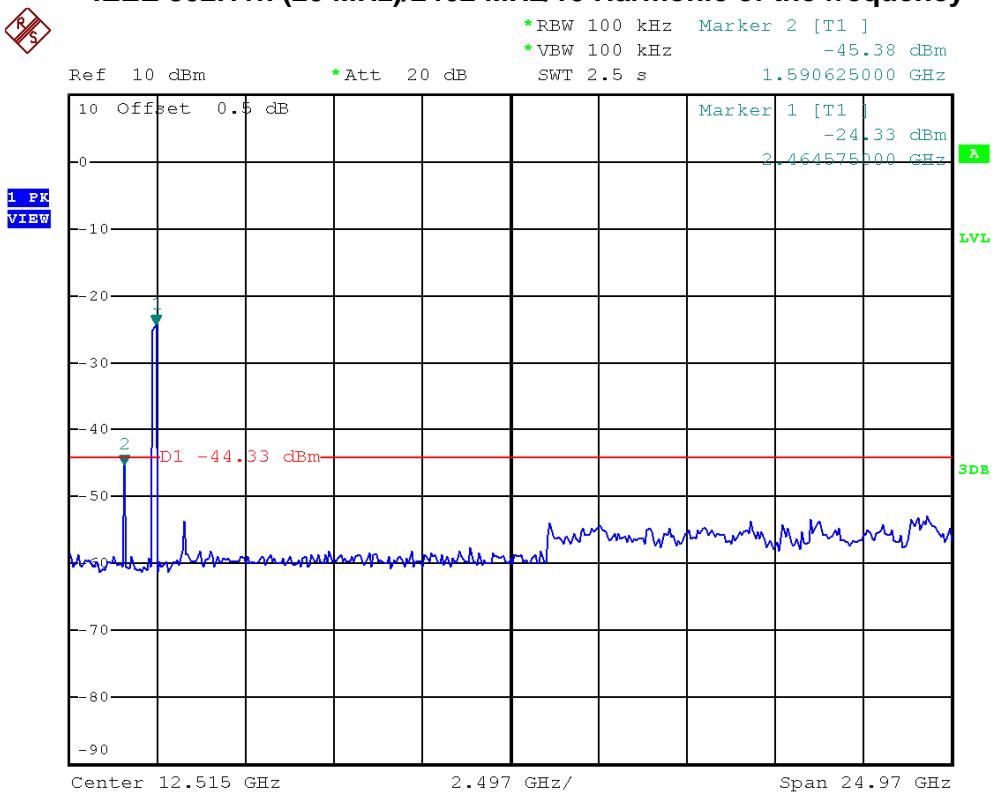


IEEE 802.11n (20 MHz)/2437 MHz/10 Harmonic of the frequency





IEEE 802.11n (20 MHz)/2462 MHz/10 Harmonic of the frequency





E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		

Channel of Worst Data

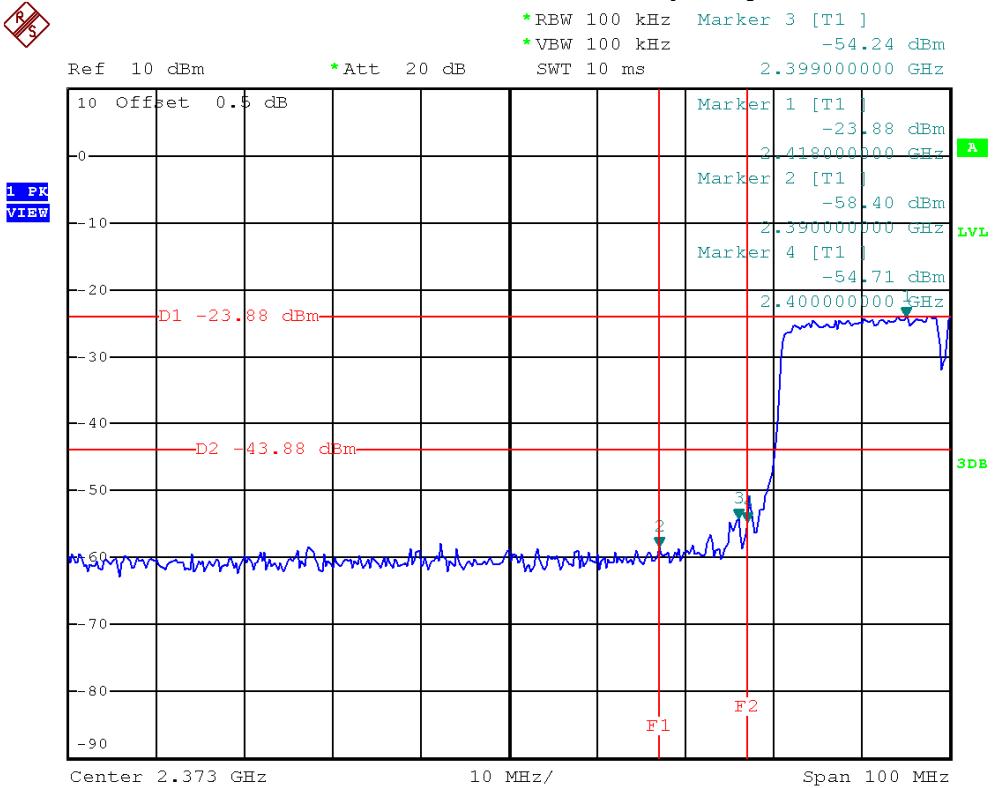
The max. radio frequency power in any 100kHz bandwidth outside the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2399.00	-54.24	2487.50	-57.70

Result

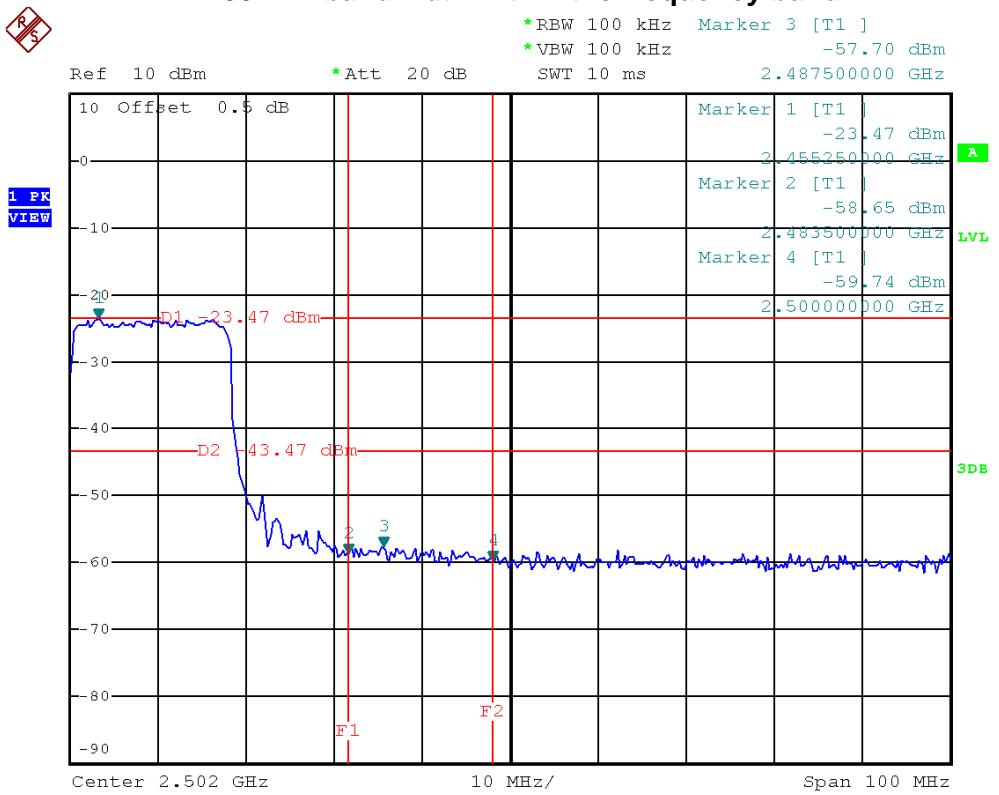
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.



IEEE 802.11n (40 MHz)/The max. radio frequency power in any 100kHz bandwidth outside the frequency band

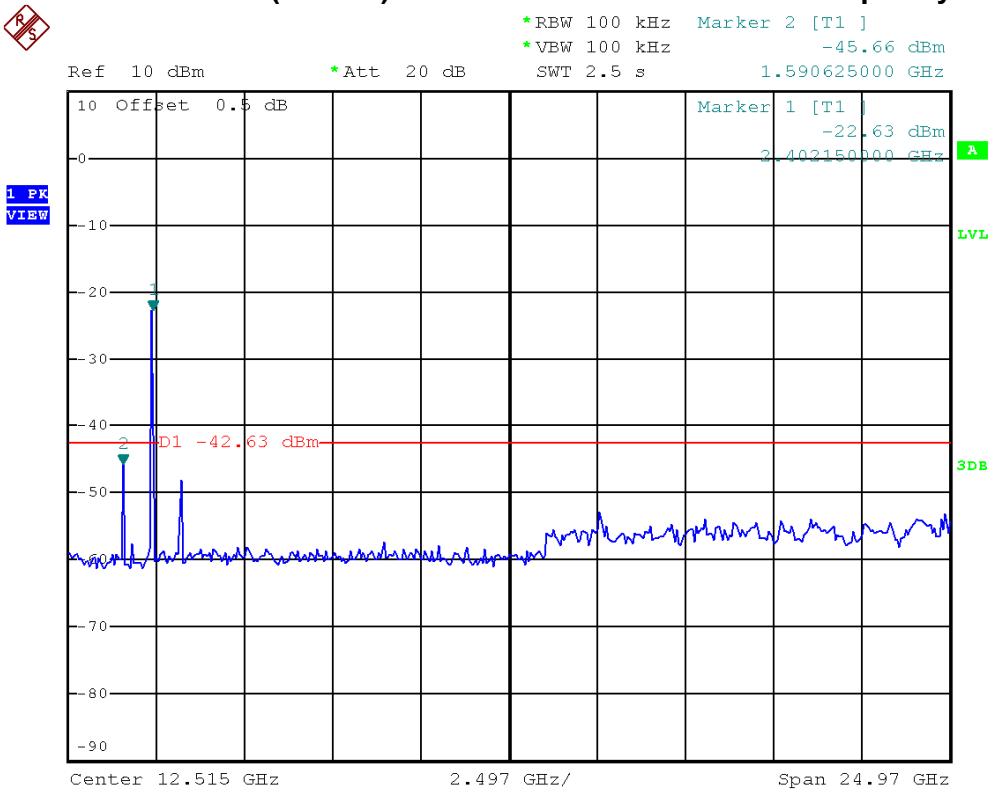


IEEE 802.11n (40 MHz)/The max. radio frequency power in any 100 kHz bandwidth within the frequency band

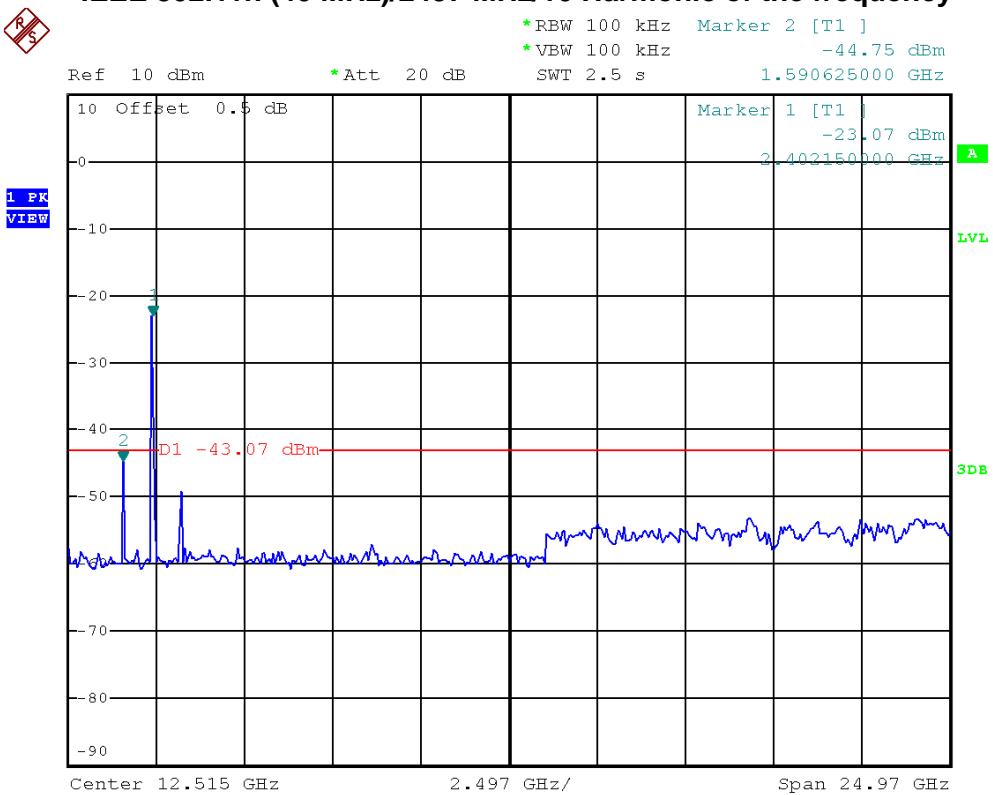




IEEE 802.11n (40 MHz)/2422 MHz/10 Harmonic of the frequency

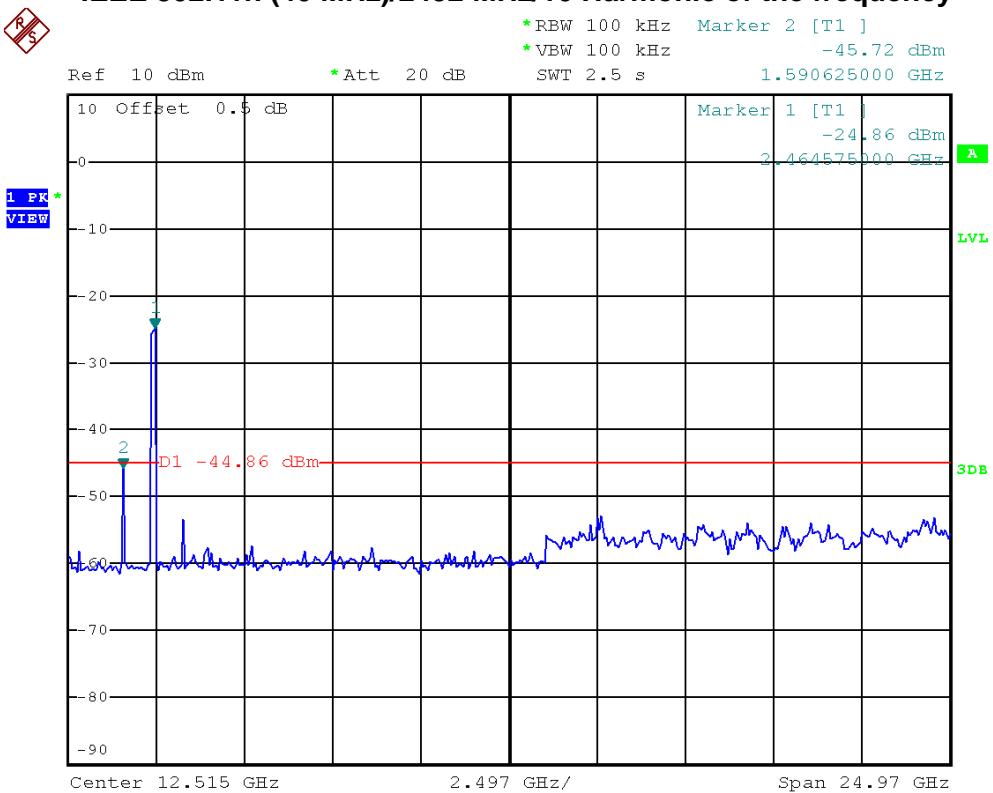


IEEE 802.11n (40 MHz)/2437 MHz/10 Harmonic of the frequency





IEEE 802.11n (40 MHz)/2452 MHz/10 Harmonic of the frequency





5.6 DB BANDWIDTH

5.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Bandwidth	2400-2483.5	>= 500KHz (6 dB bandwidth)

5.2 MEASUREMENT INSTRUMENTS LIST

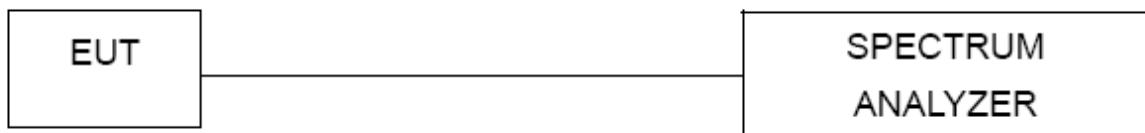
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 01, 2013

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

5.3 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.4 TEST SETUP LAYOUT



5.5 DEVIATION FROM TEST STANDARD

No deviation

5.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

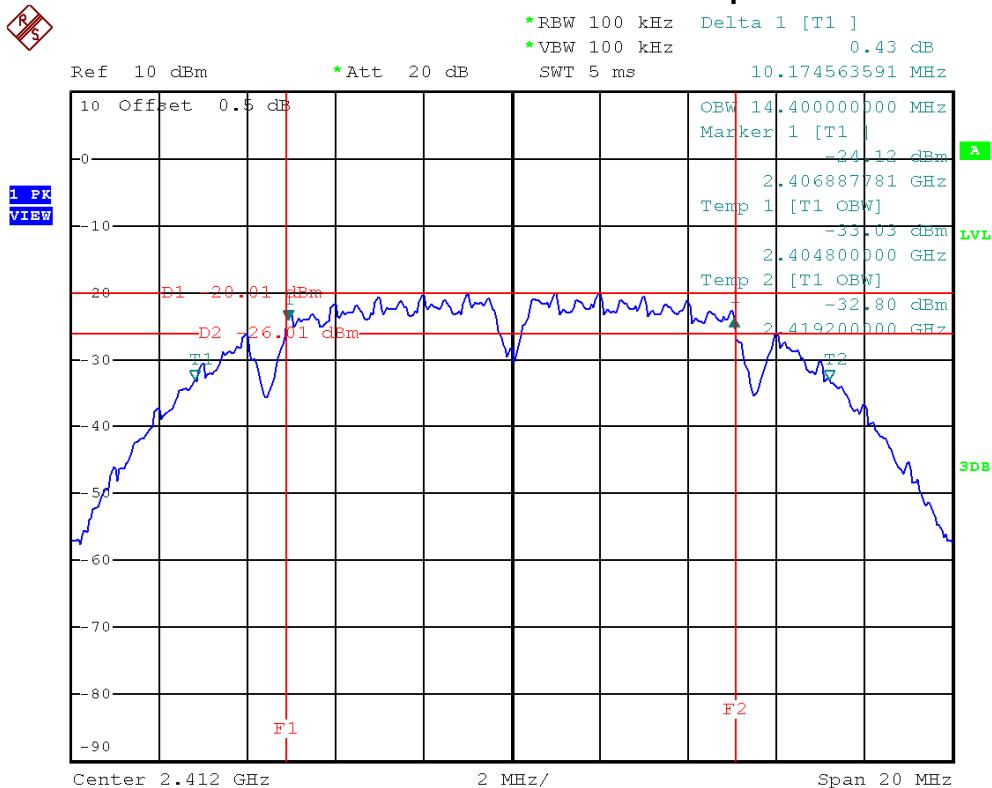


5.7 TEST RESULTS - 2400-2483.5 MHZ

E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz, 2437 MHz, 2462 MHz		

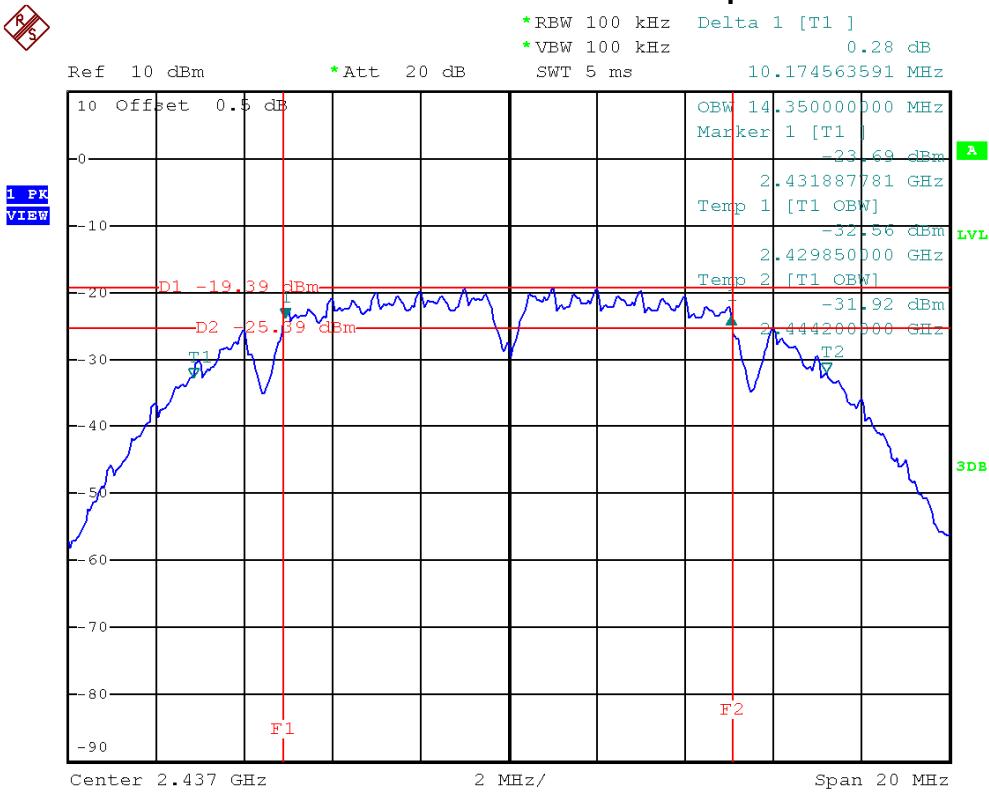
Frequency	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2412 MHz	10.17	14.40	>=500 kHz	PASS
2437 MHz	10.17	14.35	>=500 kHz	PASS
2462 MHz	10.17	14.35	>=500 kHz	PASS

IEEE 802.11b/2412 MHz/6 dB and 99% Occupied Bandwidth

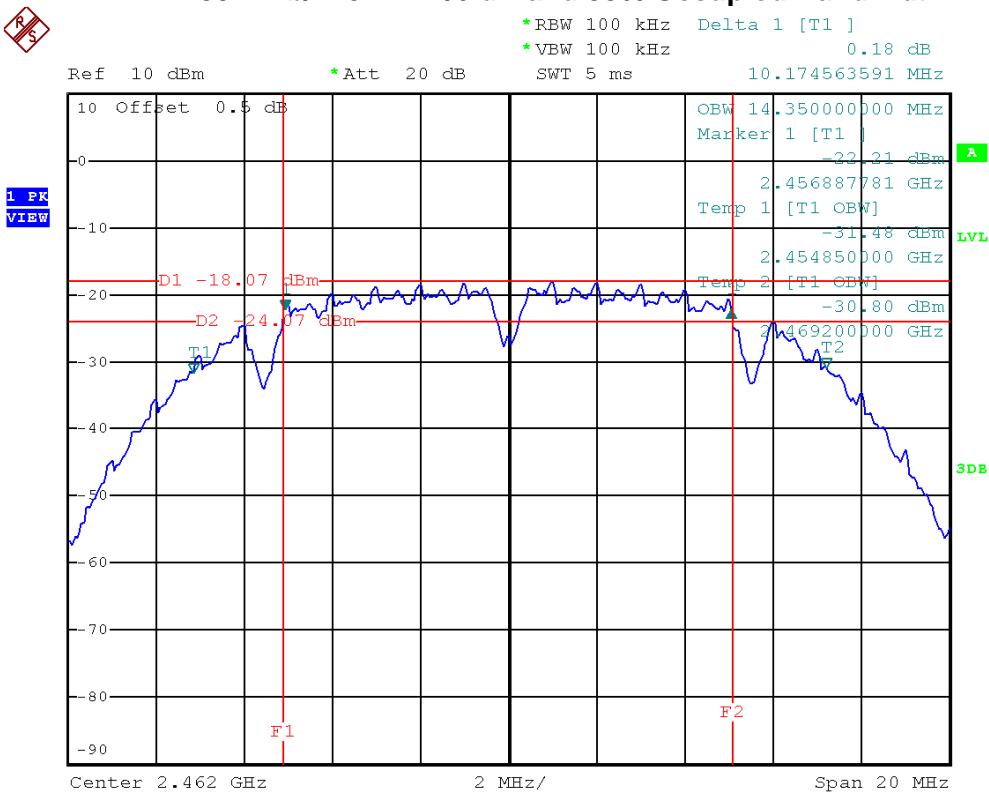




IEEE 802.11b/2437 MHz/6 dB and 99% Occupied Bandwidth



IEEE 802.11b/2462 MHz/6 dB and 99% Occupied Bandwidth

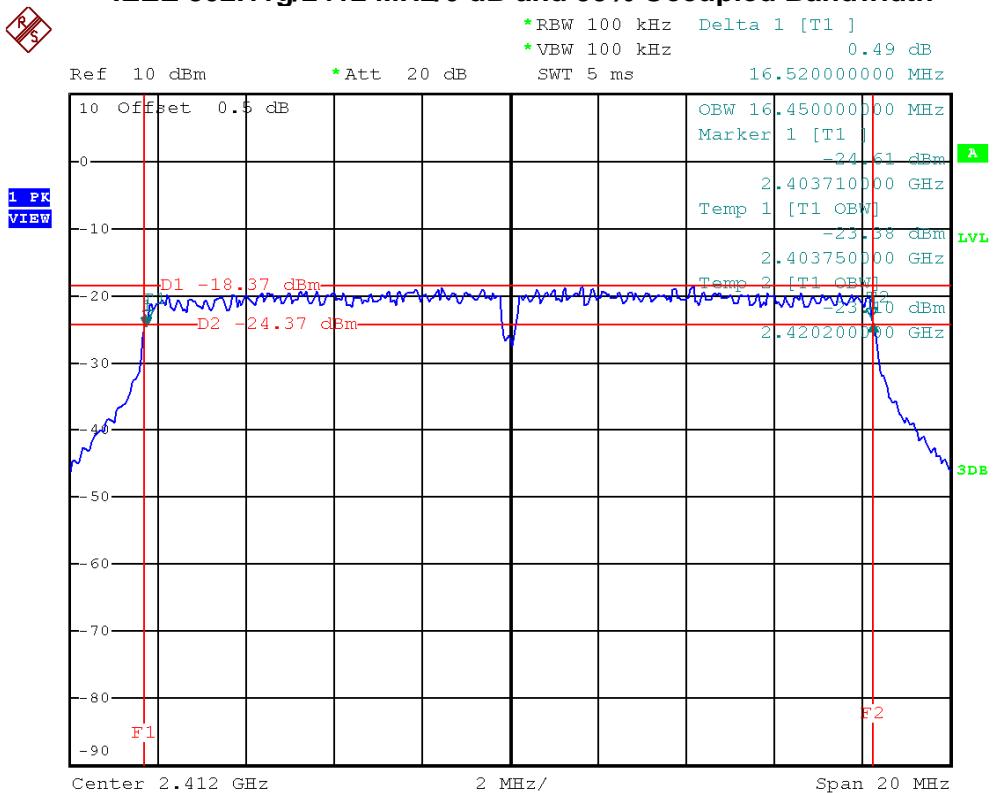




E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz, 2437 MHz, 2462 MHz		

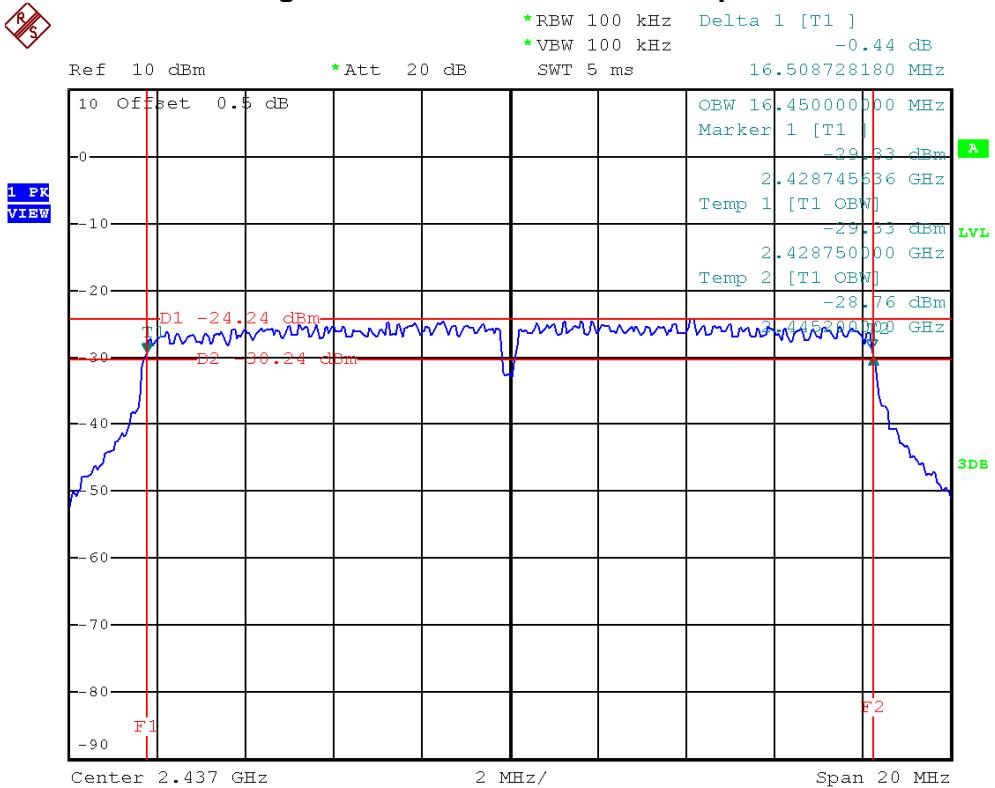
Frequency	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2412 MHz	16.52	16.45	>=500 kHz	PASS
2437 MHz	16.51	16.45	>=500 kHz	PASS
2462 MHz	16.51	16.45	>=500 kHz	PASS

IEEE 802.11g/2412 MHz/6 dB and 99% Occupied Bandwidth

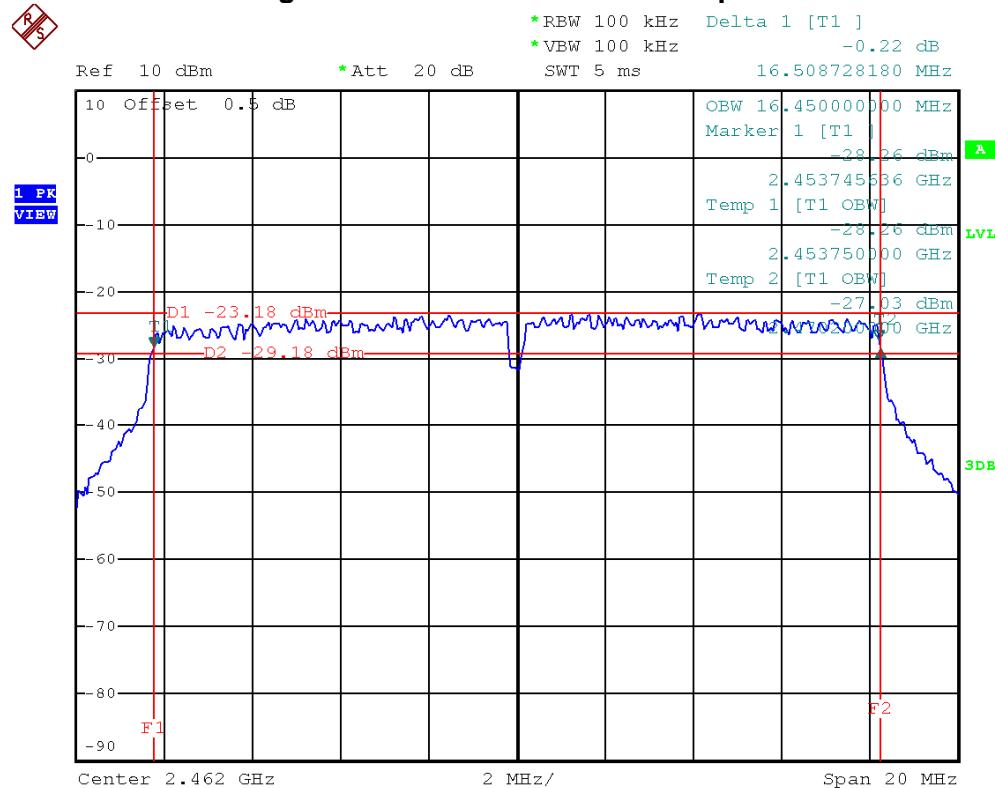




IEEE 802.11g/2437 MHz/6 dB and 99% Occupied Bandwidth



IEEE 802.11g/2462 MHz/6 dB and 99% Occupied Bandwidth

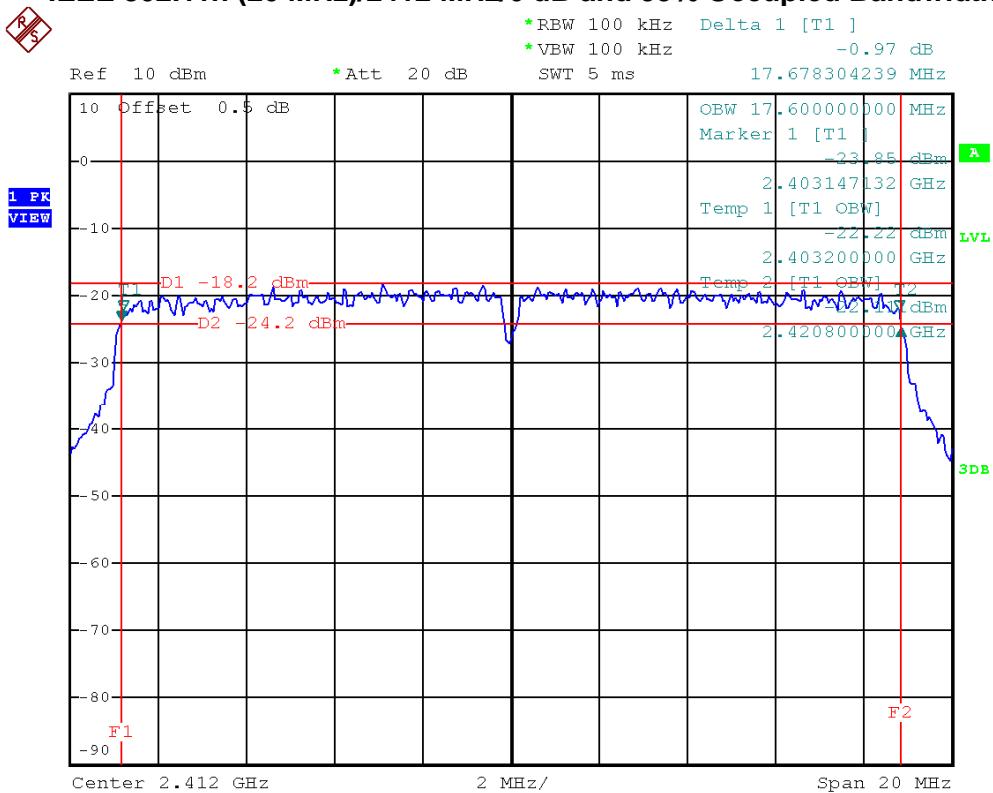




E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz, 2437 MHz, 2462 MHz		

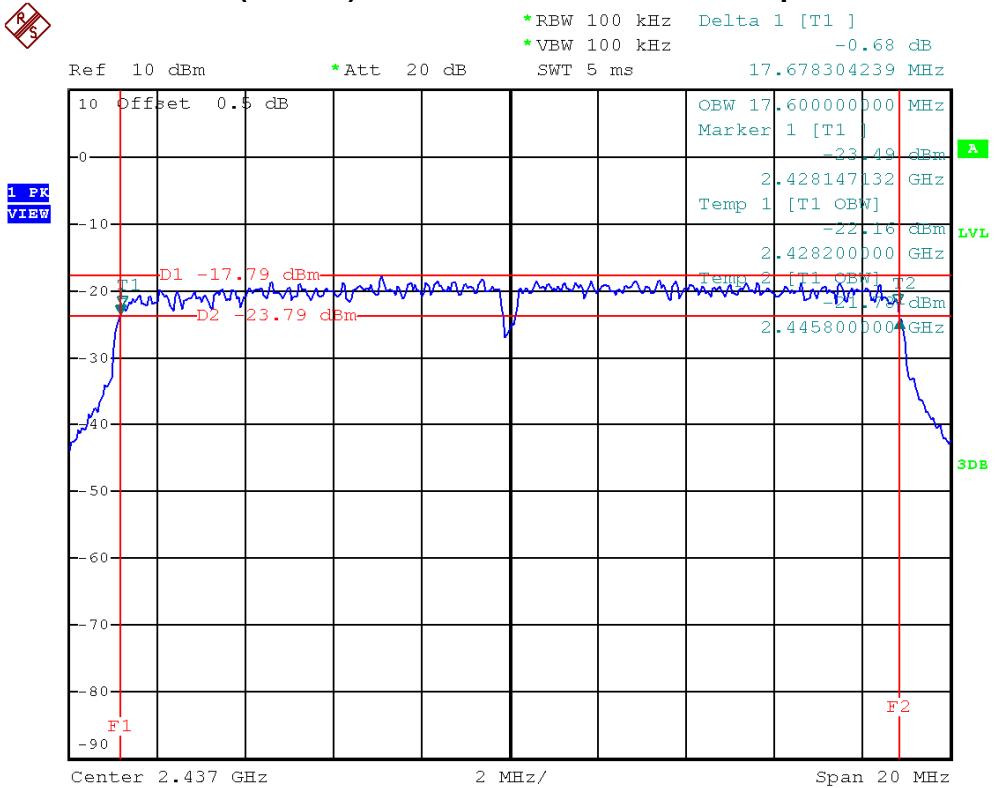
Frequency	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2412 MHz	17.68	17.60	>=500 kHz	PASS
2437 MHz	17.68	17.60	>=500 kHz	PASS
2462 MHz	17.56	17.60	>=500 kHz	PASS

IEEE 802.11n (20 MHz)/2412 MHz/6 dB and 99% Occupied Bandwidth

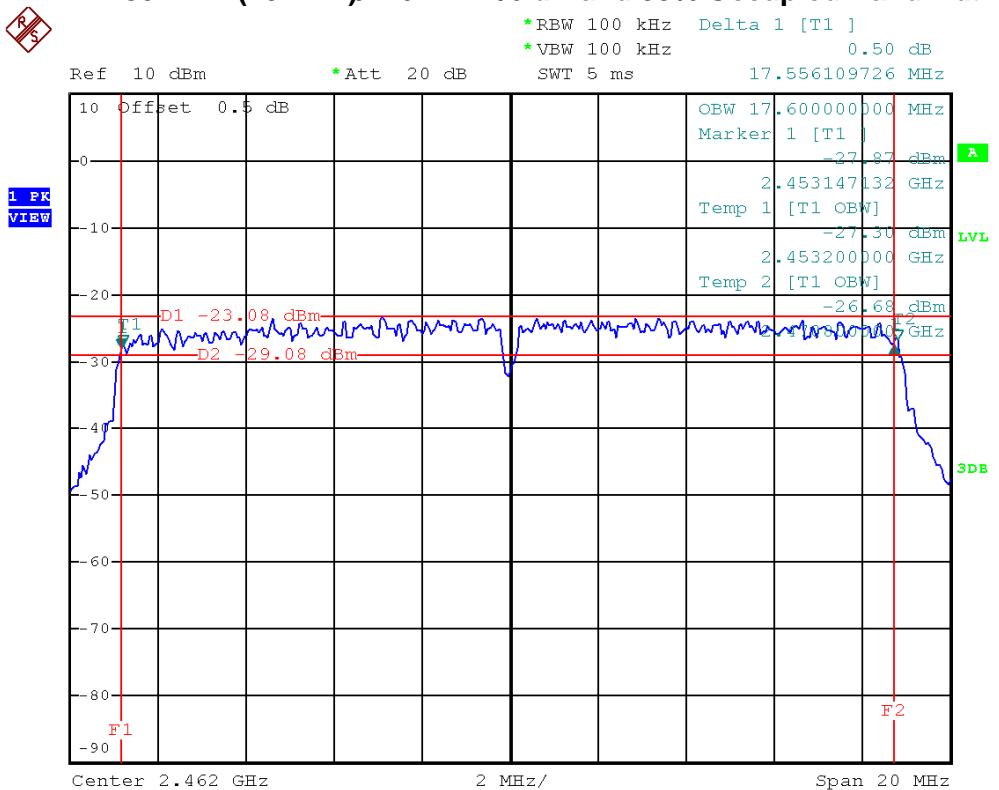




IEEE 802.11n (20 MHz)/2437 MHz/6 dB and 99% Occupied Bandwidth



IEEE 802.11n (20 MHz)/2462 MHz/6 dB and 99% Occupied Bandwidth

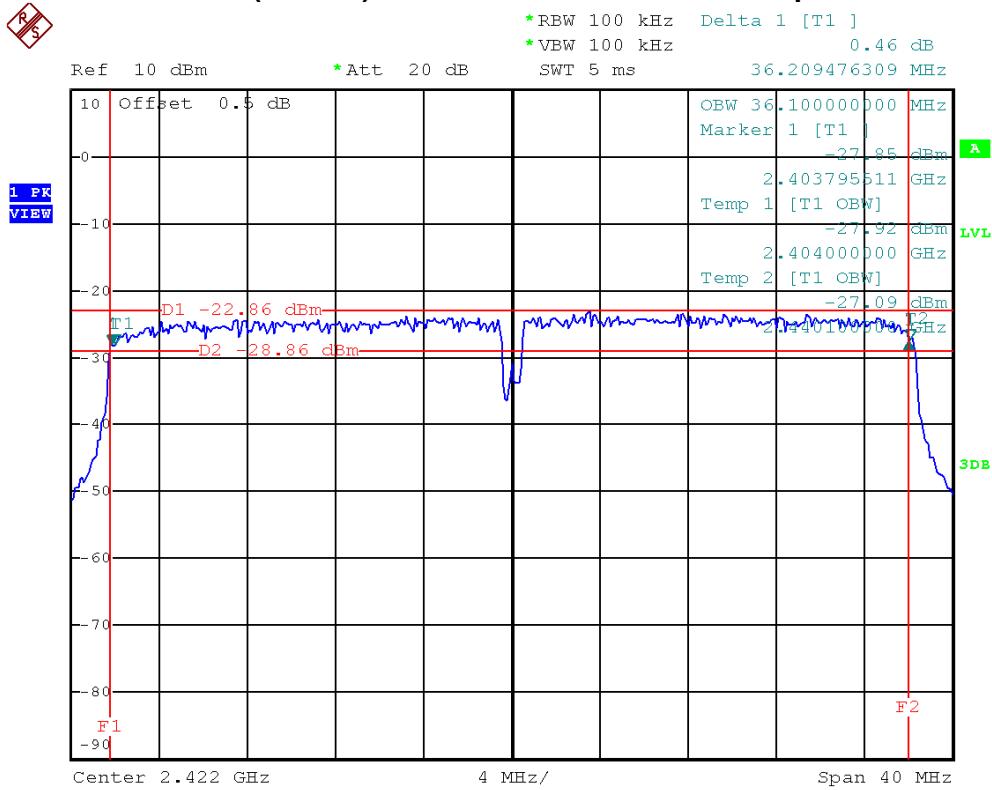




E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz, 2437 MHz, 2452 MHz		

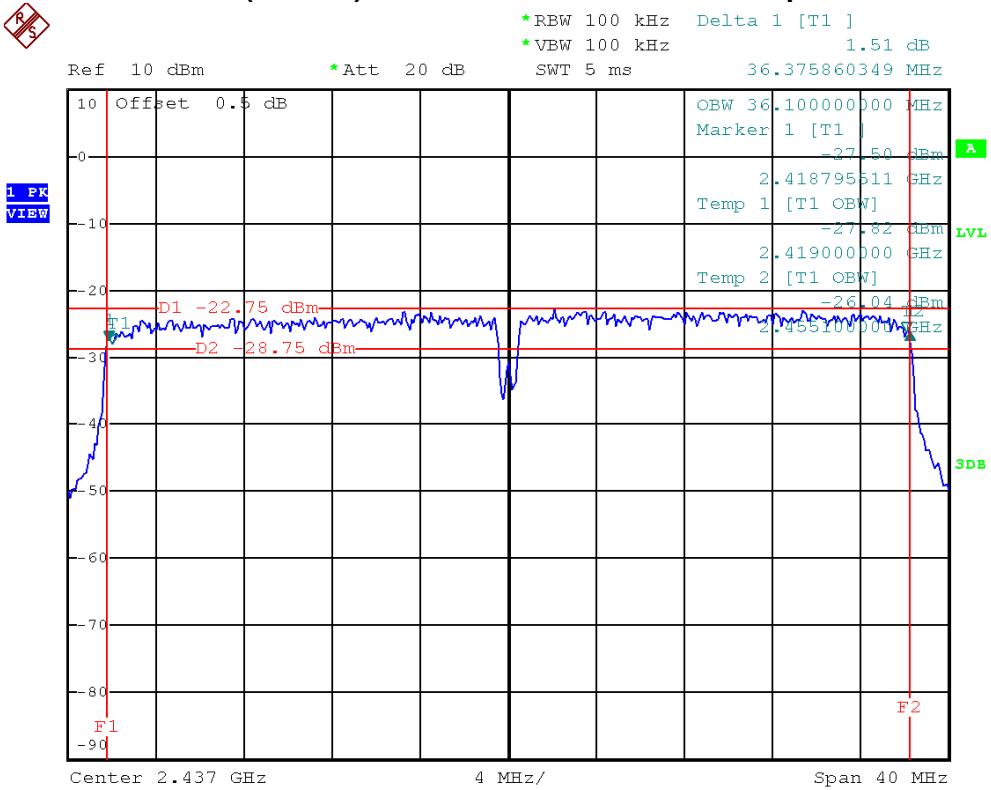
Frequency	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2422 MHz	32.21	36.10	>=500 kHz	PASS
2437 MHz	36.38	36.10	>=500 kHz	PASS
2452 MHz	36.40	36.10	>=500 kHz	PASS

IEEE 802.11n (40 MHz)/2422 MHz/6 dB and 99% Occupied Bandwidth

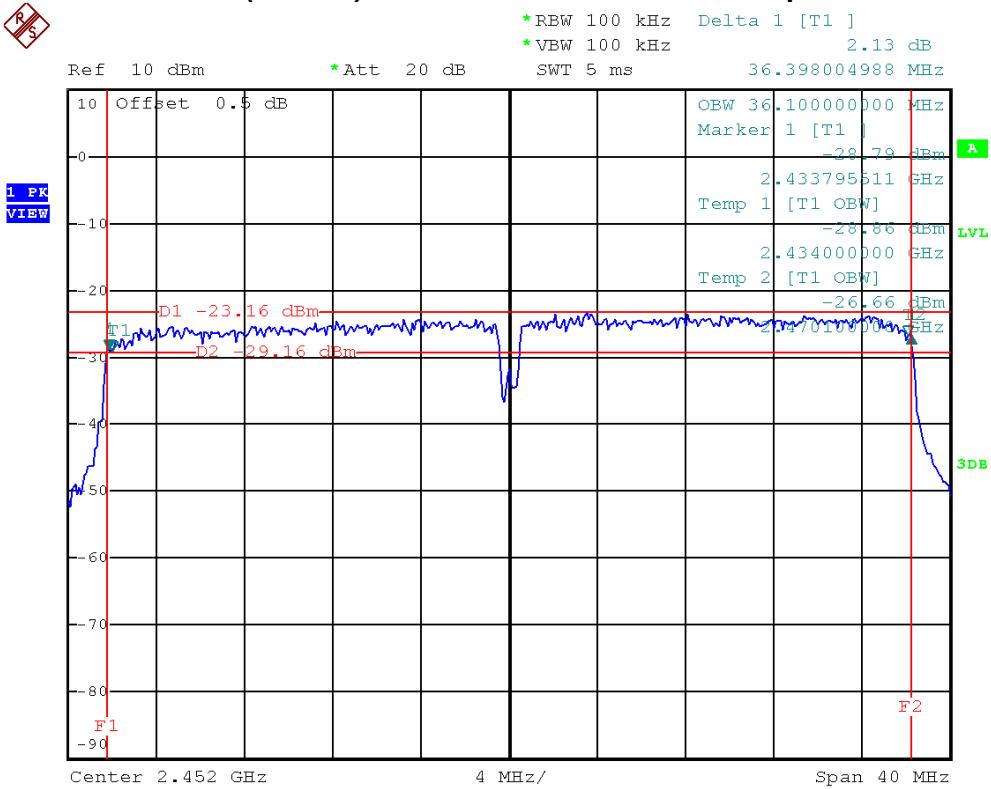




IEEE 802.11n (40 MHz)/2437 MHz/6 dB and 99% Occupied Bandwidth



IEEE 802.11n (40 MHz)/2452 MHz/6 dB and 99% Occupied Bandwidth





6 MAXIMUM PEAK CONDUCTED OUTPUT POWER

6.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Maximum Peak Conducted Output Power	2400-2483.5	1 watt or 30 dBm

6.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Feb,20,2013
2	Power Meter Sensor	Anritsu	MA2411B	1126001	Feb,20,2013

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

6.3 TEST PROCEDURES

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

6.4 TEST SETUP LAYOUT



6.5 DEVIATION FROM TEST STANDARD

No deviation

6.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



6.7 TEST RESULTS - 2400-2483.5 MHZ

E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Peak Output Power (dBm)	Avg Output Power (dBm)	Peak Output Power LIMIT (dBm)	Result
2412 MHz	0.50	-2.22	30	PASS
2437 MHz	0.71	-1.93	30	PASS
2462 MHz	0.36	-2.21	30	PASS



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Peak Output Power (dBm)	Avg Output Power (dBm)	Peak Output Power LIMIT (dBm)	Result
2412 MHz	13.41	2.08	30	PASS
2437 MHz	6.22	-4.45	30	PASS
2462 MHz	6.00	-4.67	30	PASS



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Peak Output Power (dBm)	Avg Output Power (dBm)	Peak Output Power LIMIT (dBm)	Result
2412 MHz	12.34	2.15	30	PASS
2437 MHz	12.55	2.3	30	PASS
2462 MHz	4.63	-4.8	30	PASS



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz, 2437 MHz, 2452 MHz		

Frequency	Peak Output Power (dBm)	Avg Output Power (dBm)	Peak Output Power LIMIT (dBm)	Result
2422 MHz	9.91	-0.23	30	PASS
2437 MHz	10.17	-0.17	30	PASS
2452 MHz	2.41	-6.89	30	PASS

**7 RADIATED SPURIOUS EMISSION (9 KHZ TO 1 GHZ)****7.1 LIMIT**

20 dB in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)
Margin Level = Measurement Value – Limit Value



7.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 01, 2013
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 16, 2013
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 17, 2013
4	Microflex Cable	N/A	N/A	1m	Apr. 14, 2013
5	Microflex Cable	AISI	S104-SMAP-1	10m	Apr. 14, 2013
6	Microflex Cable	N/A	N/A	3m	Apr. 14, 2013
7	Test Cable	N/A	LMR-400	966_12m	May. 15, 2013
8	Test Cable	N/A	LMR-400	966_3m	May. 15, 2013
9	Pre-Amplifier	EMC	EMC-330	980001	Jun. 07, 2013
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 12, 2013
11	Horn Antenna	Schwarzbeck	BBHA 9170	187	Dec. 18, 2012

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

7.3 MEASURING INSTRUMENTS SETTING

EMI Test Receiver	Parameter Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



7.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

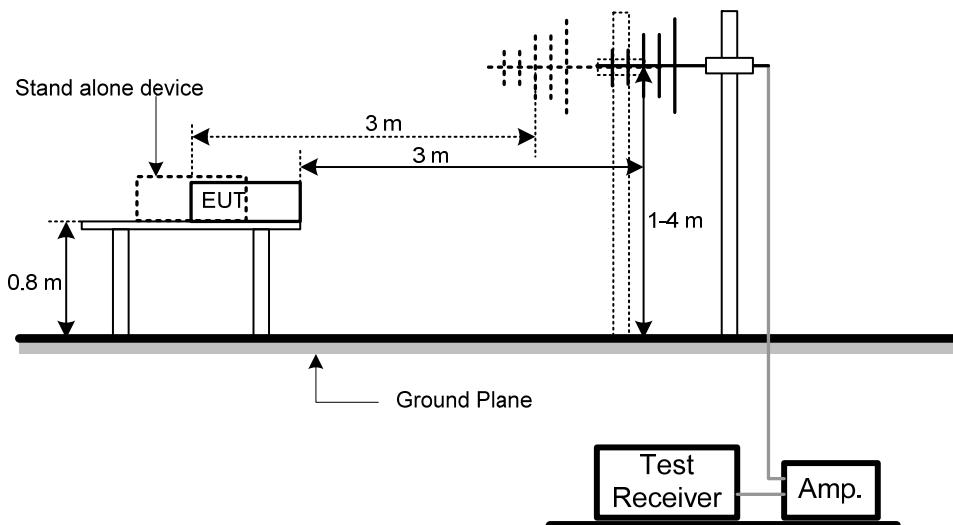
NOTE:

- a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz; SPA setting in RBW=100 kHz, VBW =100 kHz, Swp. Time = 0.3 sec./ MHz.
- b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

7.5 DEVIATION FROM TEST STANDARD

No deviation

7.6 TEST SETUP LAYOUT





7.7 EUT OPERATING CONDITIONS

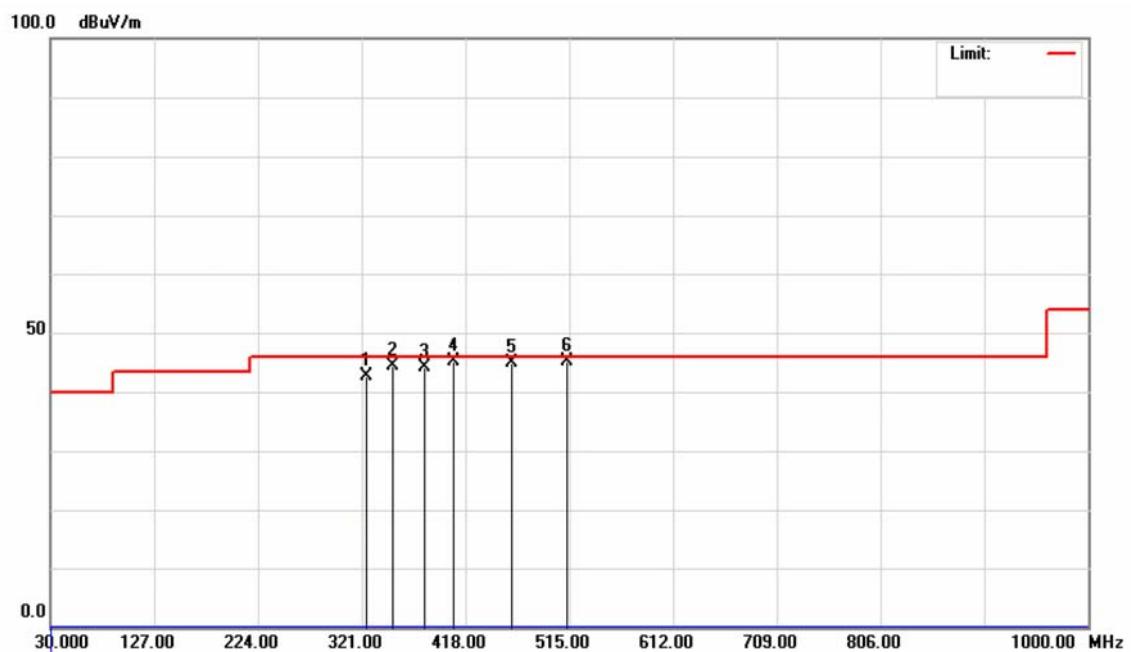
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



7.8 TEST RESULTS - 2400-2483.5 MHZ

E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Vertical

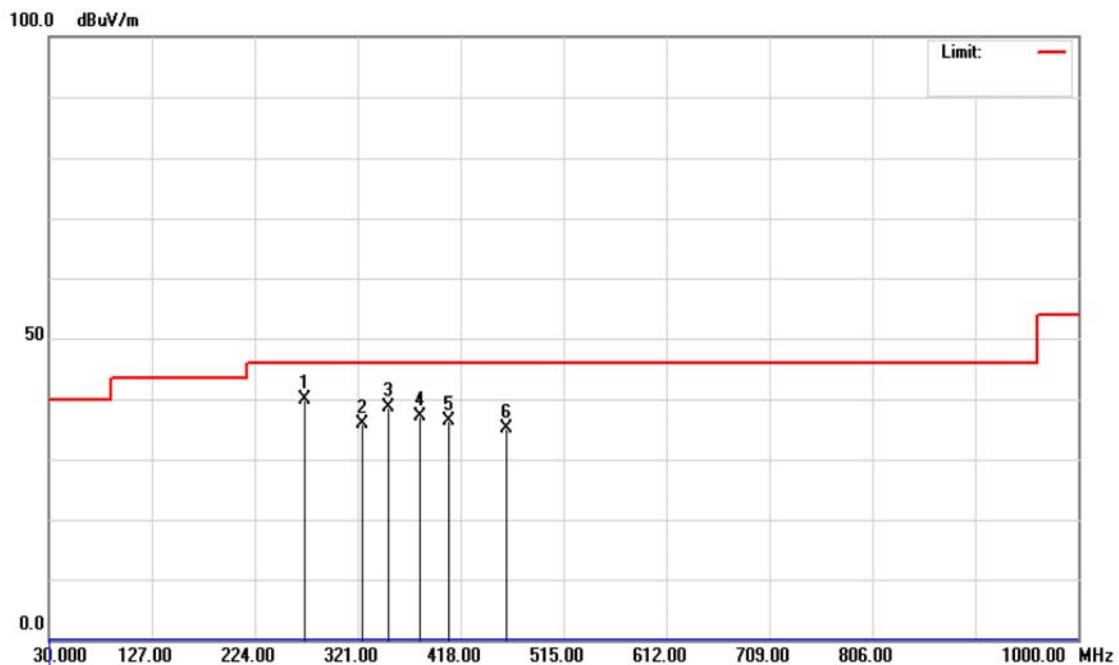


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		324.8800	60.05	-17.49	42.56	46.00	-3.44	peak	
2		350.1000	61.43	-17.02	44.41	46.00	-1.59	QP	
3		379.2000	60.30	-16.13	44.17	46.00	-1.83	QP	
4	*	406.3599	60.56	-15.34	45.22	46.00	-0.78	QP	
5		460.6800	58.97	-14.04	44.93	46.00	-1.07	QP	
6		513.0600	58.22	-13.13	45.09	46.00	-0.91	QP	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	270.5600	59.00	-19.02	39.98	46.00	-6.02	peak
2		324.8800	53.45	-17.49	35.96	46.00	-10.04	peak
3		350.1000	55.64	-17.02	38.62	46.00	-7.38	peak
4		379.2000	53.14	-16.13	37.01	46.00	-8.99	peak
5		406.3599	51.77	-15.34	36.43	46.00	-9.57	peak
6		460.6800	49.17	-14.04	35.13	46.00	-10.87	peak



8 RADIATED SPURIOUS EMISSION (ABOVE 1 GHZ)

8.1 LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

NOTE:

(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)

Margin Level = Measurement Value – Limit Value



8.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 01, 2013
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 16, 2013
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 17, 2013
4	Microflex Cable	N/A	N/A	1m	Apr. 14, 2013
5	Microflex Cable	AISI	S104-SMAP-1	10m	Apr. 14, 2013
6	Microflex Cable	N/A	N/A	3m	Apr. 14, 2013
7	Test Cable	N/A	LMR-400	966_12m	May. 15, 2013
8	Test Cable	N/A	LMR-400	966_3m	May. 15, 2013
9	Pre-Amplifier	EMC	EMC-330	980001	Jun. 07, 2013
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 12, 2013
11	Horn Antenna	Schwarzbeck	BBHA 9170	187	Dec. 18, 2012

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

8.3 MEASURING INSTRUMENTS SETTING

Spectrum Analyzer	Parameter Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

8.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

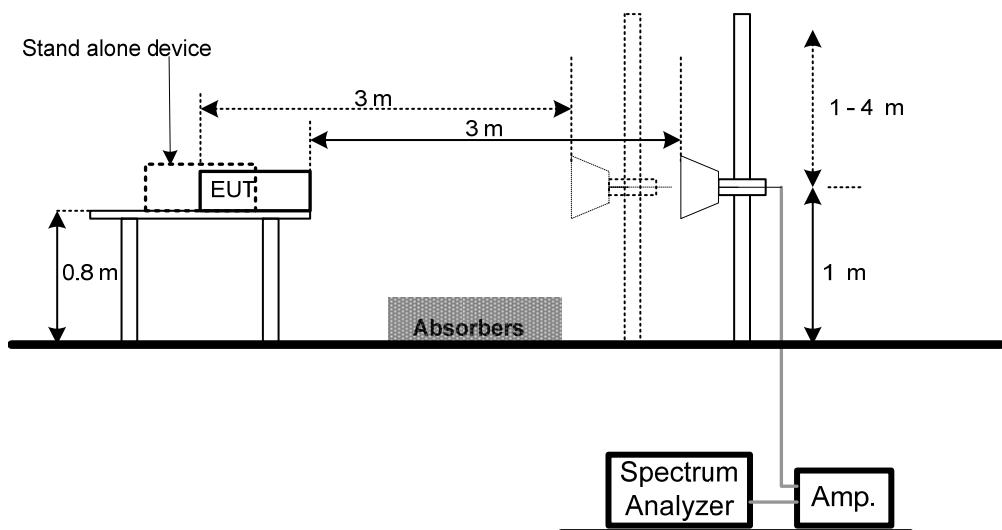
NOTE:

- a. Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz, Swp. Time = Auto.
Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz, Swp. Time = Auto.
- b. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.

8.5 DEVIATION FROM TEST STANDARD

No deviation

8.6 TEST SETUP LAYOUT





8.7 EUT OPERATING CONDITIONS

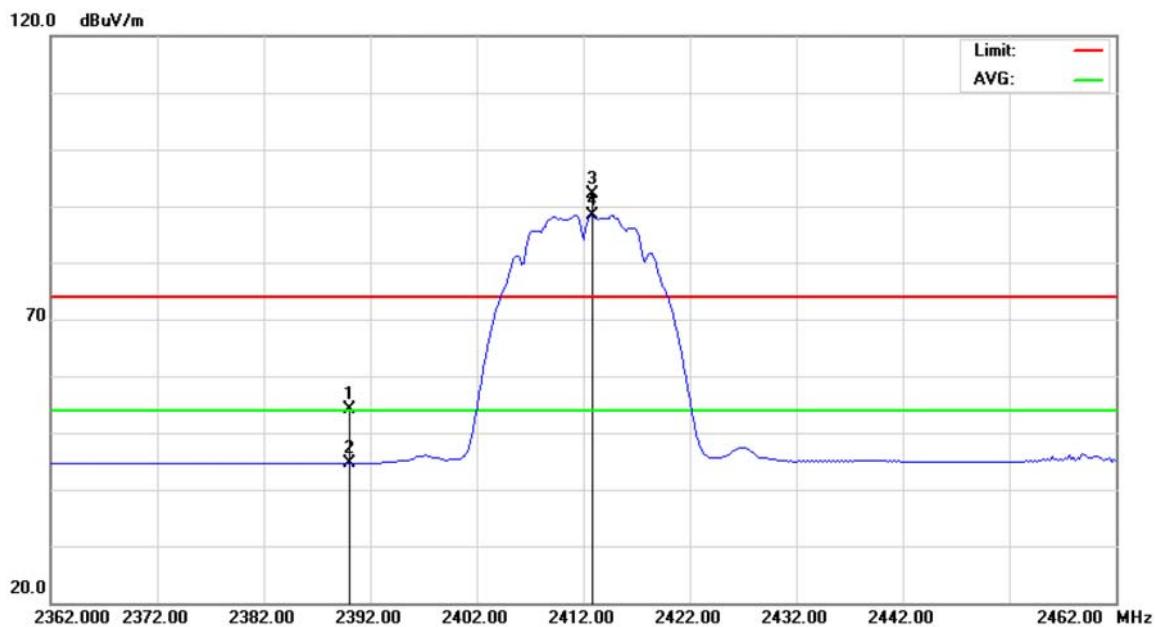
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



8.8 TEST RESULTS - 2400-2483.5 MHZ

E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz		

Polarization: Vertical

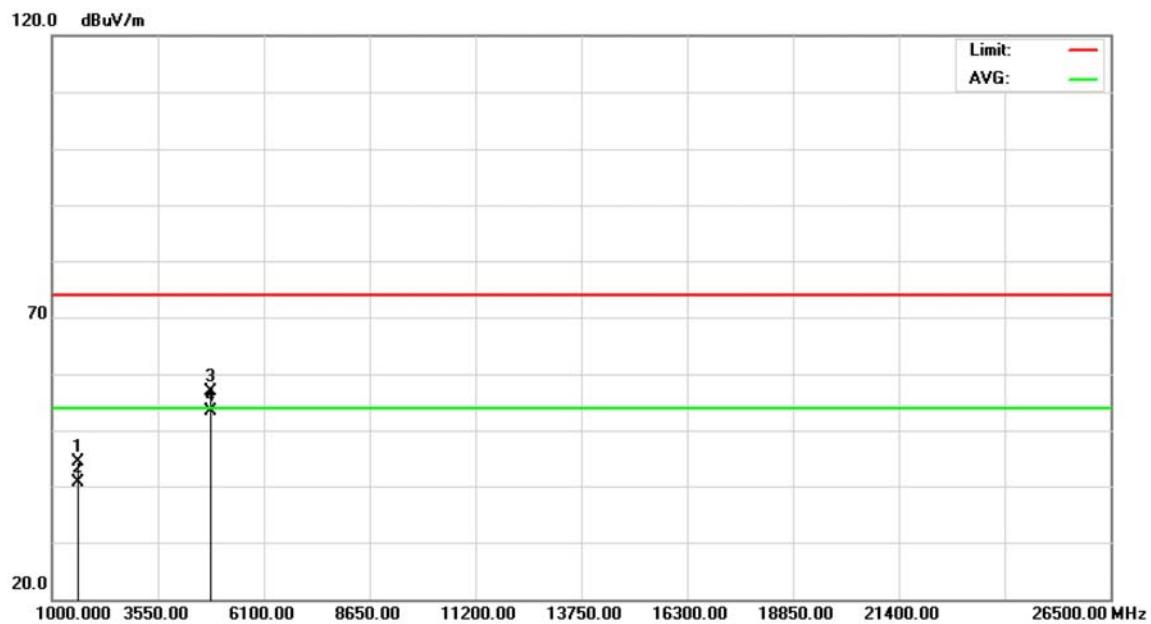


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		2390.000	20.98	33.23	54.21	74.00	-19.79	peak	
2		2390.000	11.37	33.23	44.60	54.00	-9.40	AVG	
3	X	2412.800	58.69	33.33	92.02	74.00	18.02	peak	
4	*	2412.800	55.10	33.33	88.43	54.00	34.43	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz		

Polarization: Vertical

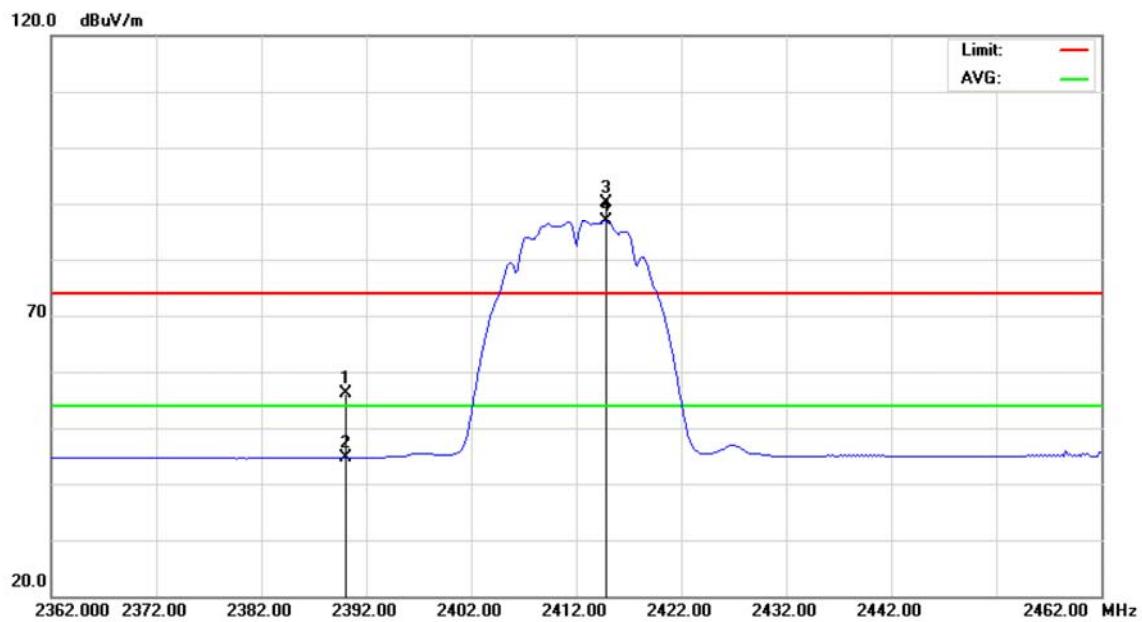


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1608.040	47.71	-3.33	44.38	74.00	-29.62	peak	
2		1608.040	44.00	-3.33	40.67	54.00	-13.33	AVG	
3		4823.960	49.31	7.55	56.86	74.00	-17.14	peak	
4	*	4823.960	45.82	7.55	53.37	54.00	-0.63	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz		

Polarization: Horizontal

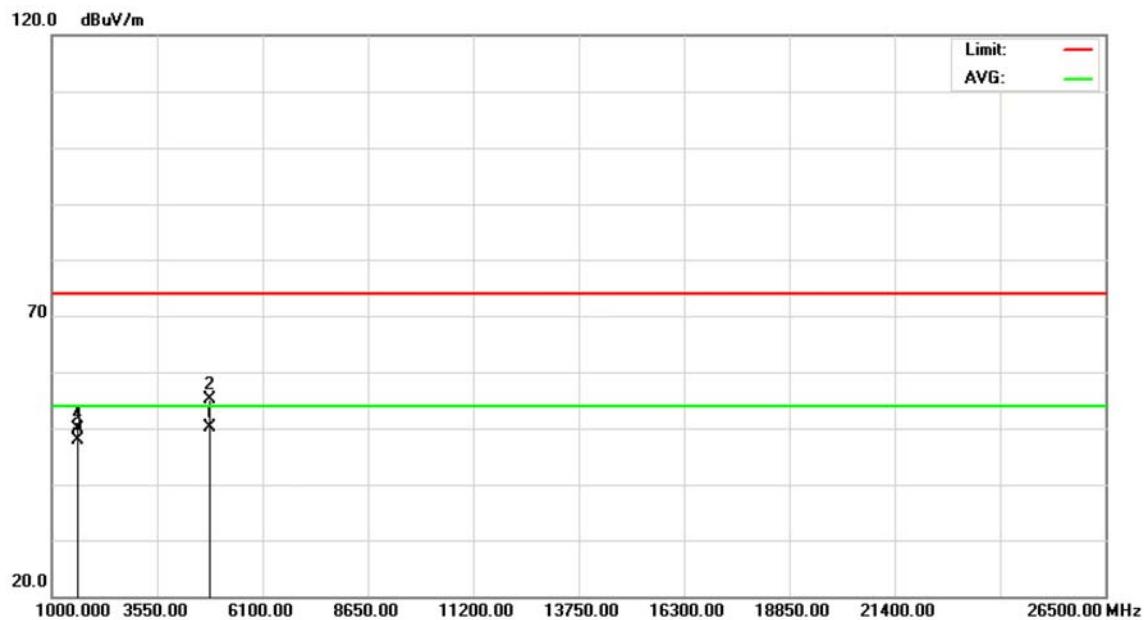


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		2390.000	22.81	33.23	56.04	74.00	-17.96	peak	
2		2390.000	11.35	33.23	44.58	54.00	-9.42	AVG	
3	X	2414.800	56.81	33.34	90.15	74.00	16.15	peak	
4	*	2414.800	53.62	33.34	86.96	54.00	32.96	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz		

Polarization: Horizontal

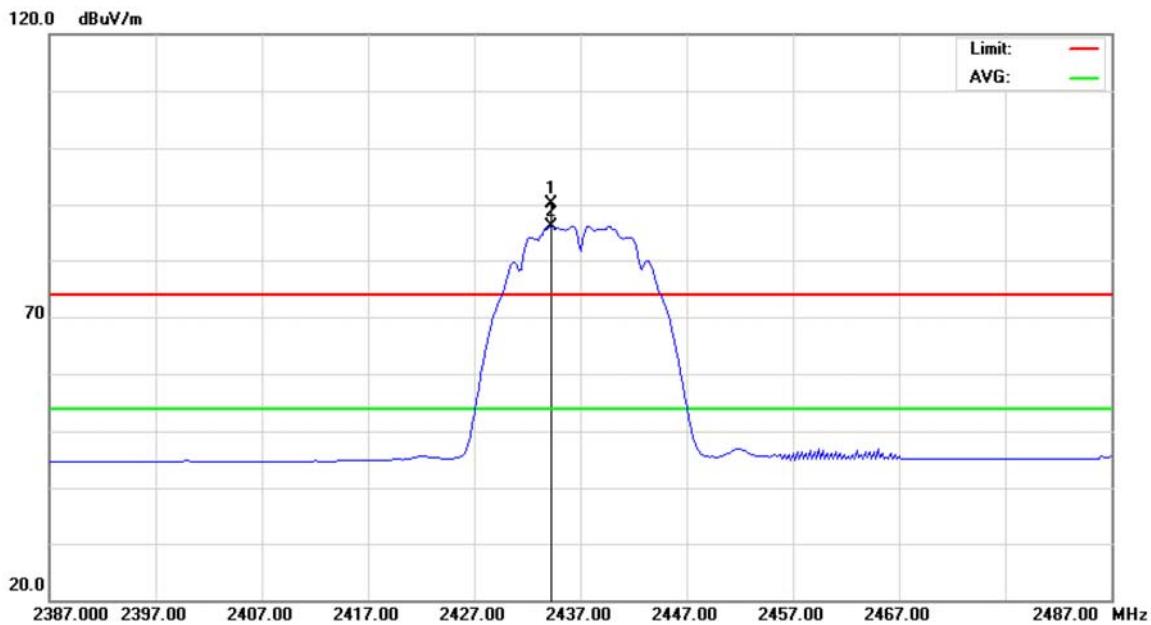


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	*	4823.960	42.70	7.55	50.25	54.00	-3.75	AVG	
2		4823.960	47.55	7.55	55.10	74.00	-18.90	peak	
3		1607.980	51.14	-3.33	47.81	54.00	-6.19	AVG	
4		1607.980	53.26	-3.33	49.93	74.00	-24.07	peak	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Vertical

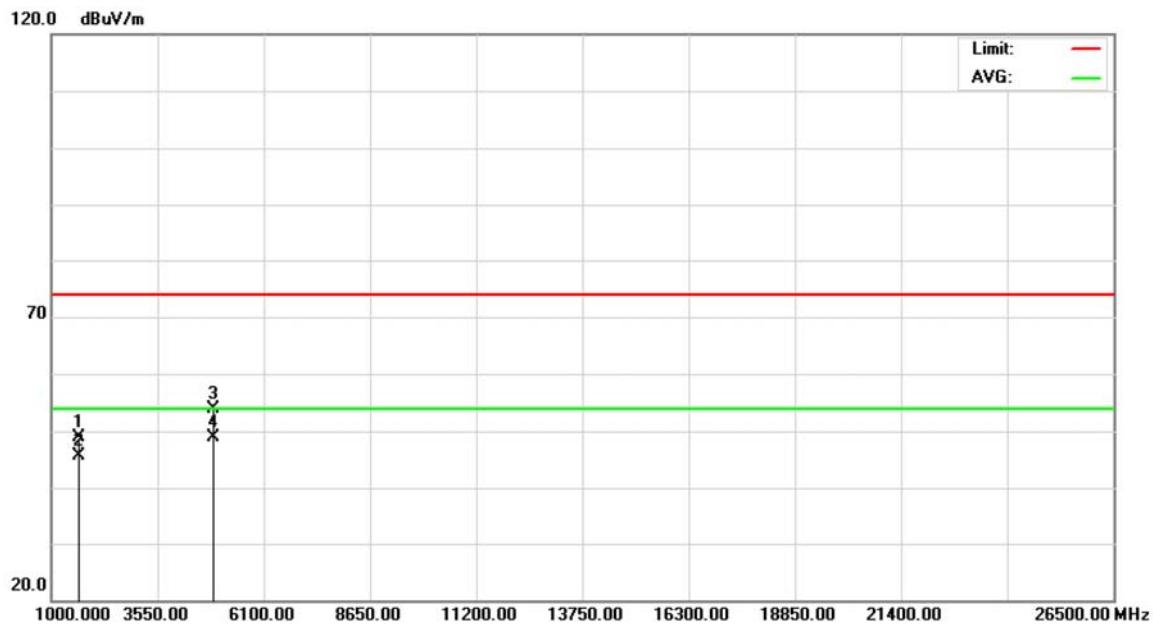


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2434.200	56.61	33.42	90.03	74.00	16.03	peak	
2	*	2434.200	52.78	33.42	86.20	54.00	32.20	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Vertical

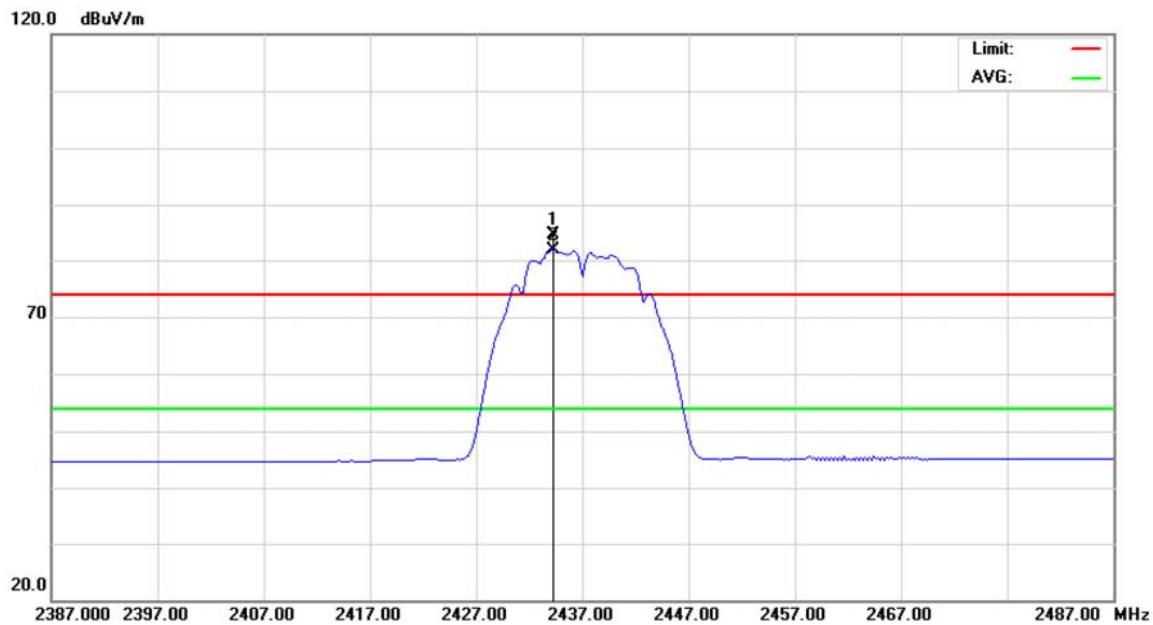


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1624.680	52.12	-3.29	48.83	74.00	-25.17	peak	
2		1624.680	49.01	-3.29	45.72	54.00	-8.28	AVG	
3		4874.000	46.23	7.74	53.97	74.00	-20.03	peak	
4	*	4874.000	41.14	7.74	48.88	54.00	-5.12	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Horizontal

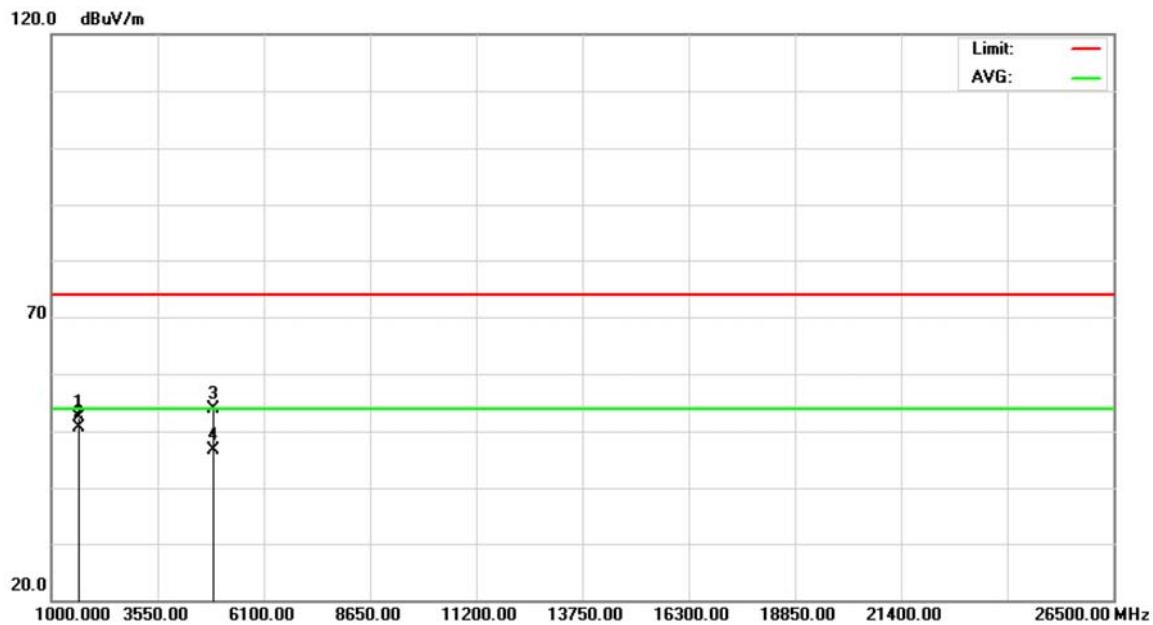


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2434.200	51.26	33.42	84.68	74.00	10.68	peak	
2	*	2434.200	48.42	33.42	81.84	54.00	27.84	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Horizontal

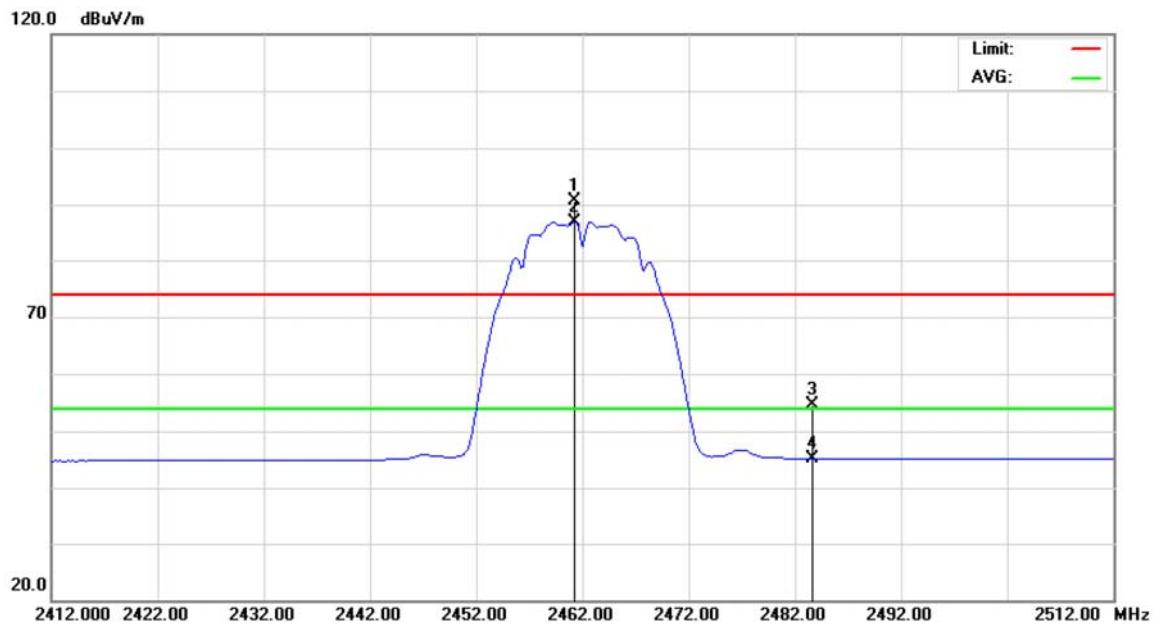


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1624.680	55.60	-3.29	52.31	74.00	-21.69	peak	
2	*	1624.680	53.94	-3.29	50.65	54.00	-3.35	AVG	
3		4874.000	46.06	7.74	53.80	74.00	-20.20	peak	
4		4874.000	39.01	7.74	46.75	54.00	-7.25	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2462 MHz		

Polarization: Vertical

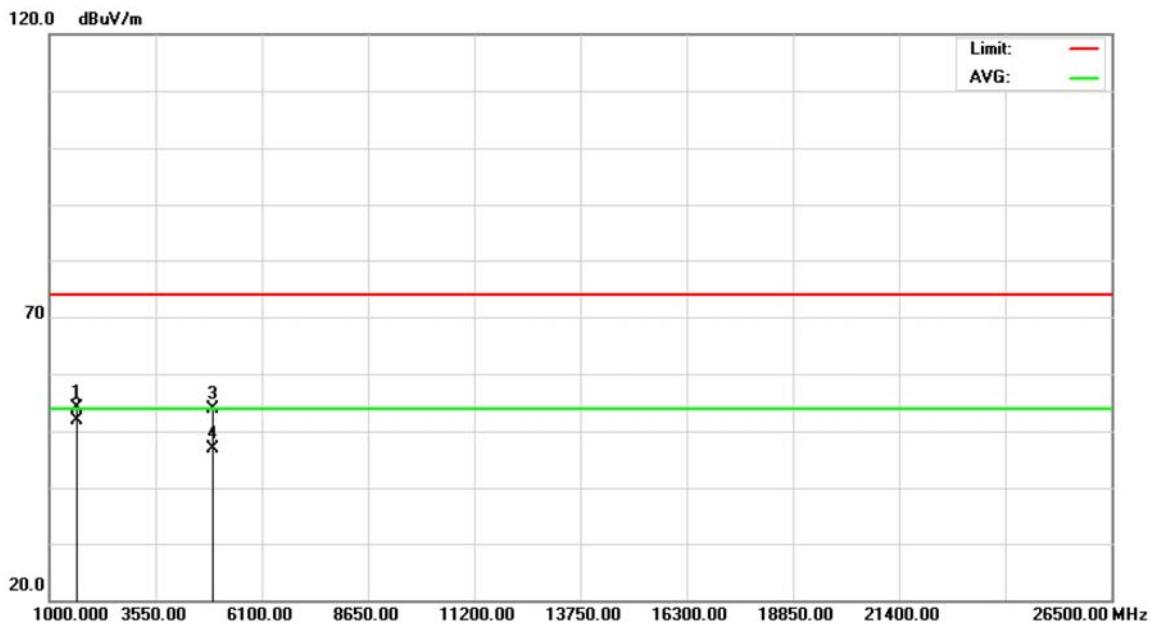


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2461.200	57.13	33.54	90.67	74.00	16.67	peak	
2	*	2461.200	53.34	33.54	86.88	54.00	32.88	AVG	
3		2483.500	20.91	33.64	54.55	74.00	-19.45	peak	
4		2483.500	11.45	33.64	45.09	54.00	-8.91	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2462 MHz		

Polarization: Vertical

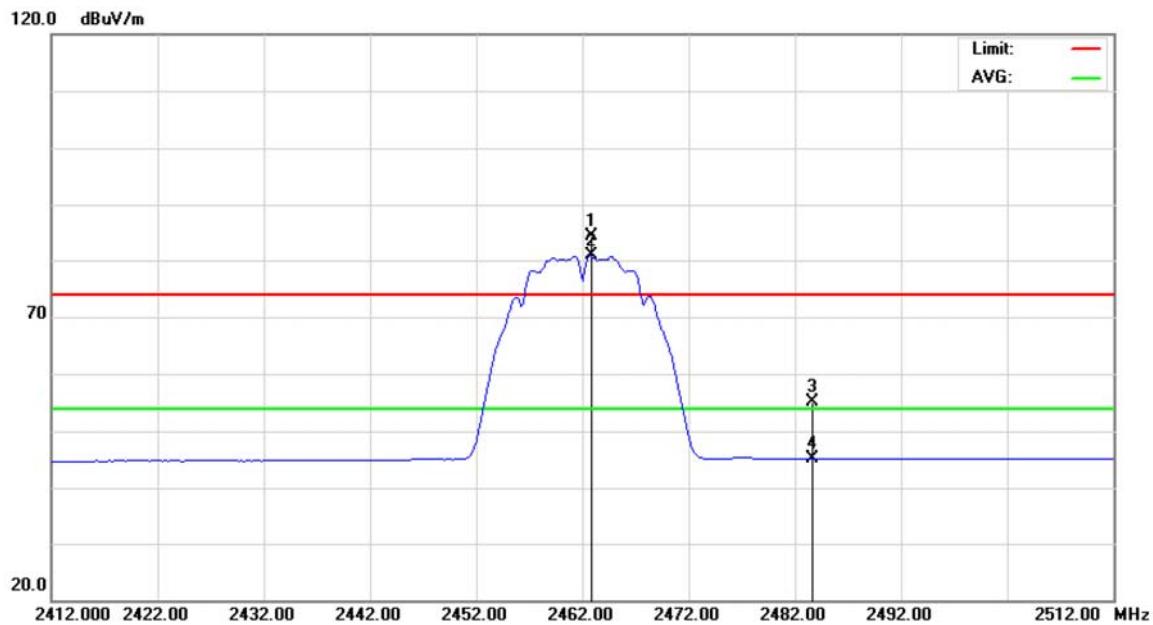


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1641.320	57.33	-3.24	54.09	74.00	-19.91	peak	
2	*	1641.320	55.08	-3.24	51.84	54.00	-2.16	AVG	
3		4923.920	45.83	7.93	53.76	74.00	-20.24	peak	
4		4923.920	38.97	7.93	46.90	54.00	-7.10	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2462 MHz		

Polarization: Horizontal

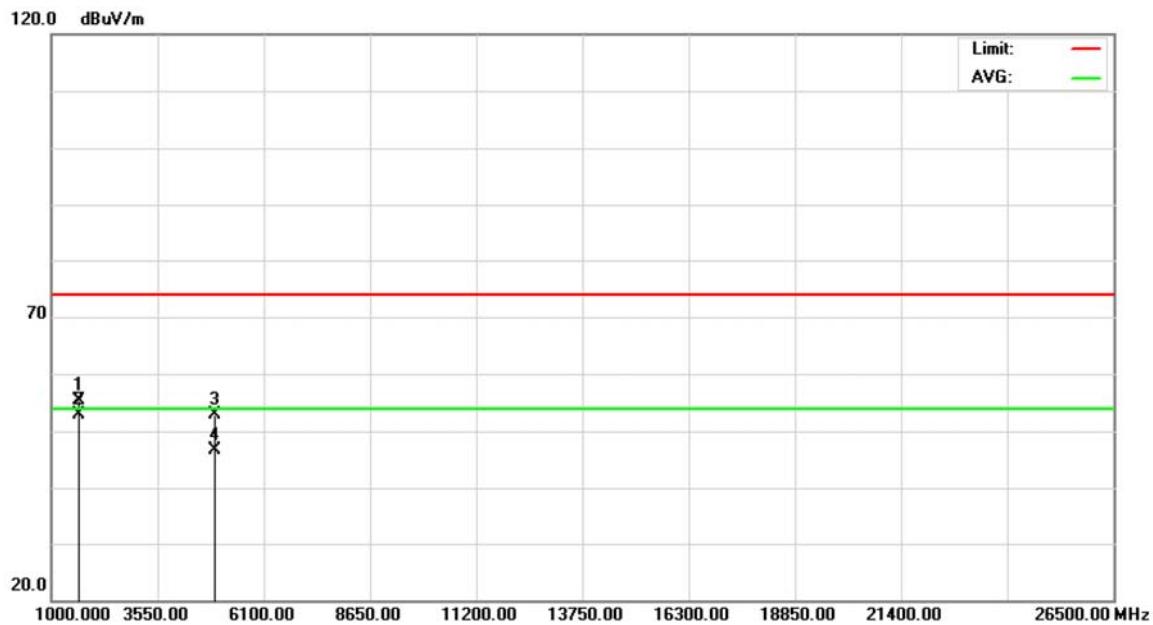


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2462.800	50.81	33.55	84.36	74.00	10.36	peak
2	*	2462.800	47.22	33.55	80.77	54.00	26.77	AVG
3		2483.500	21.58	33.64	55.22	74.00	-18.78	peak
4		2483.500	11.38	33.64	45.02	54.00	-8.98	AVG



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2462 MHz		

Polarization: Horizontal

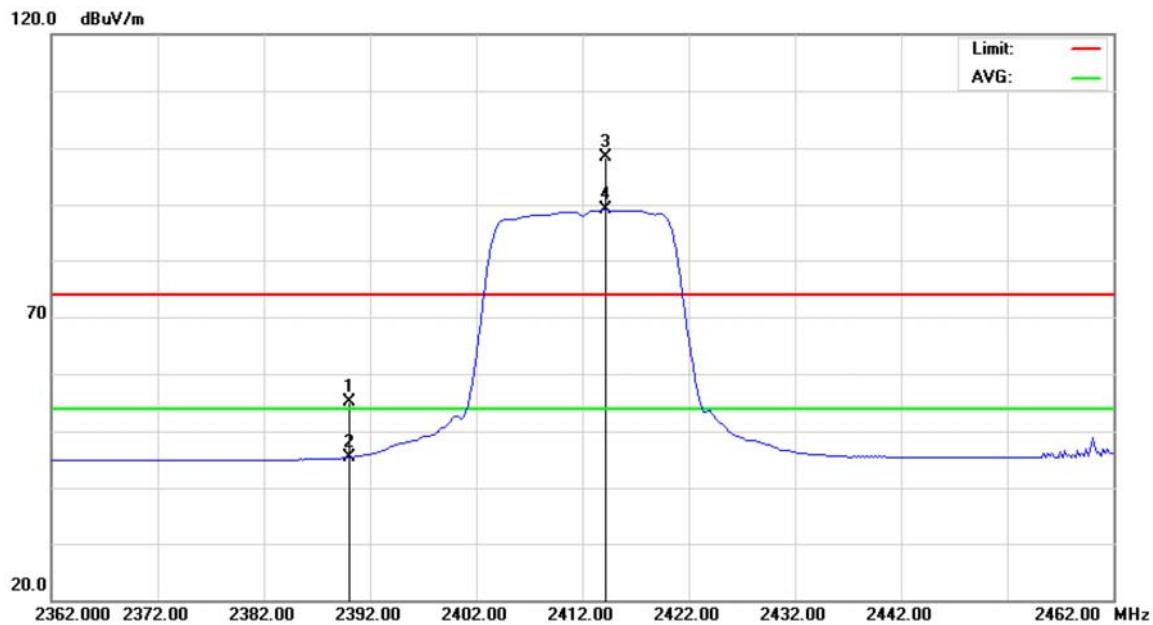


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1641.320	58.54	-3.24	55.30	74.00	-18.70	peak	
2	*	1641.320	56.13	-3.24	52.89	54.00	-1.11	AVG	
3		4924.040	45.06	7.93	52.99	74.00	-21.01	peak	
4		4924.040	38.81	7.93	46.74	54.00	-7.26	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz		

Polarization: Vertical

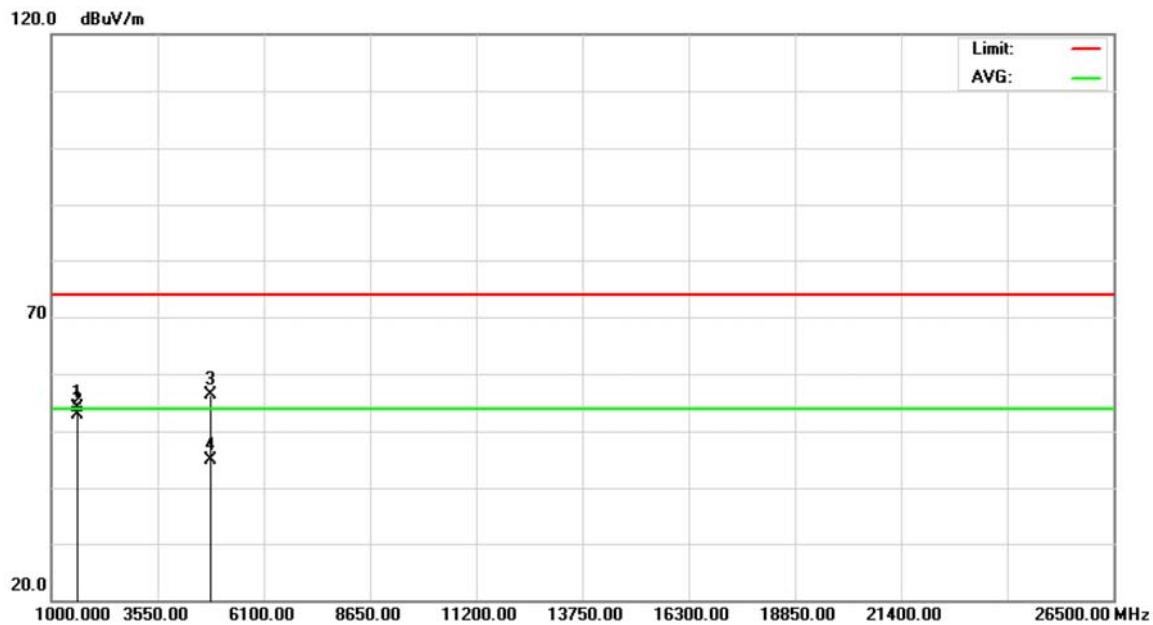


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		2390.000	21.63	33.42	55.05	74.00	-18.95	peak	
2		2390.000	11.93	33.42	45.35	54.00	-8.65	AVG	
3	X	2414.200	64.83	33.55	98.38	74.00	24.38	peak	
4	*	2414.200	55.50	33.55	89.05	54.00	35.05	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz		

Polarization: Vertical

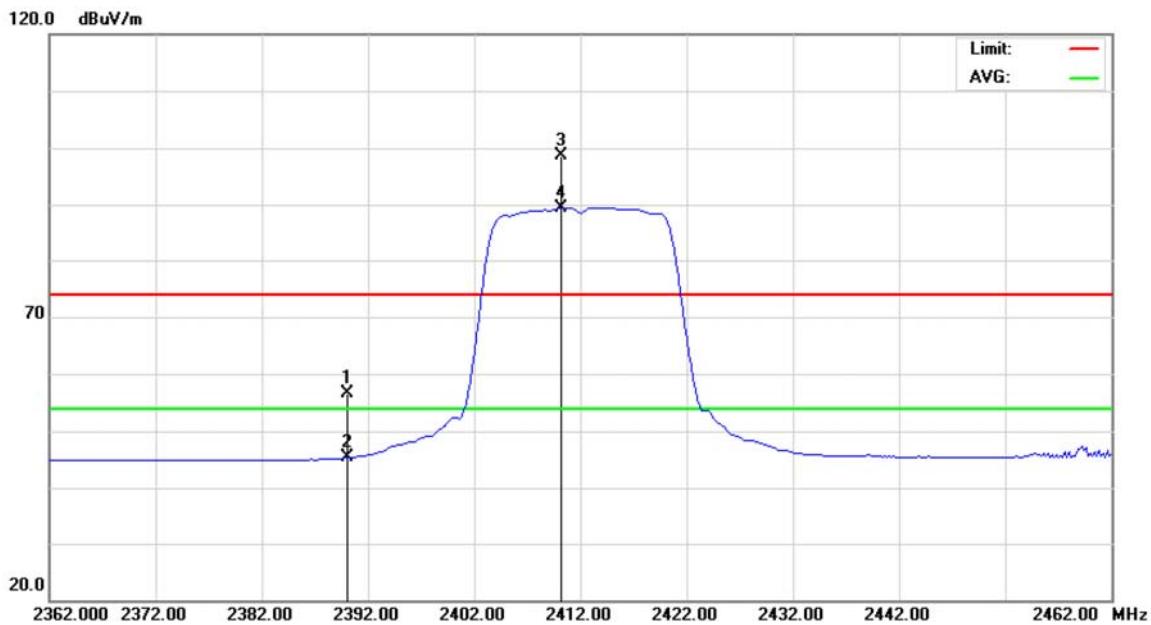


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1607.980	57.69	-3.61	54.08	74.00	-19.92	peak	
2	*	1607.980	56.44	-3.61	52.83	54.00	-1.17	AVG	
3		4823.860	48.83	7.49	56.32	74.00	-17.68	peak	
4		4823.860	37.31	7.49	44.80	54.00	-9.20	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz		

Polarization: Horizontal

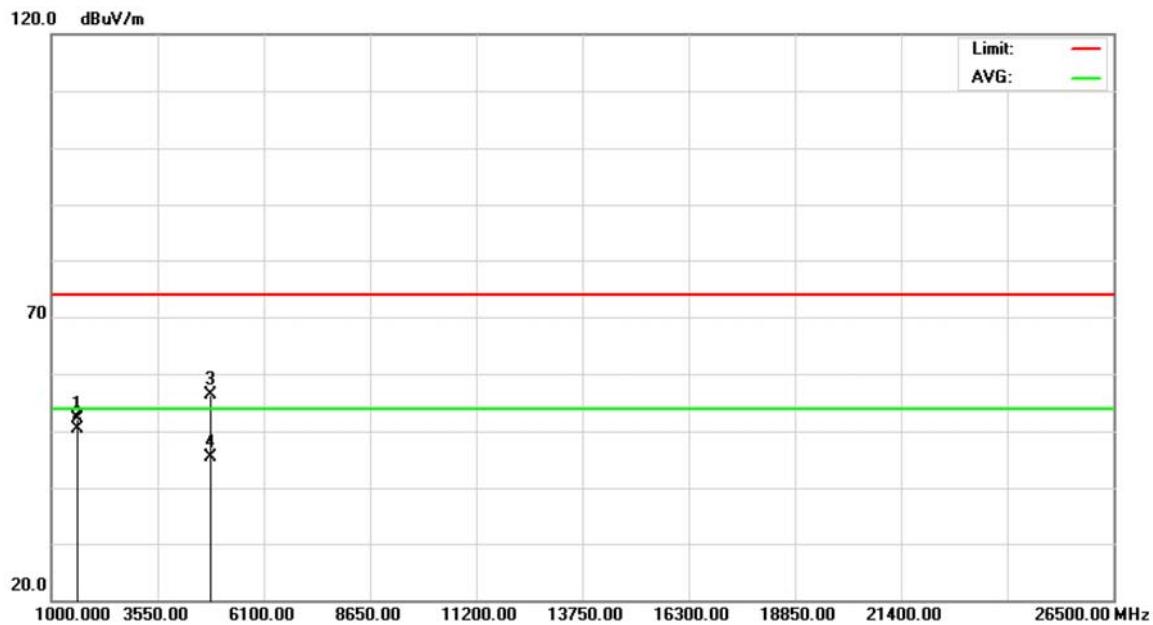


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		2390.000	23.24	33.42	56.66	74.00	-17.34	peak	
2		2390.000	11.86	33.42	45.28	54.00	-8.72	AVG	
3	X	2410.200	65.03	33.53	98.56	74.00	24.56	peak	
4	*	2410.200	55.91	33.53	89.44	54.00	35.44	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz		

Polarization: Horizontal

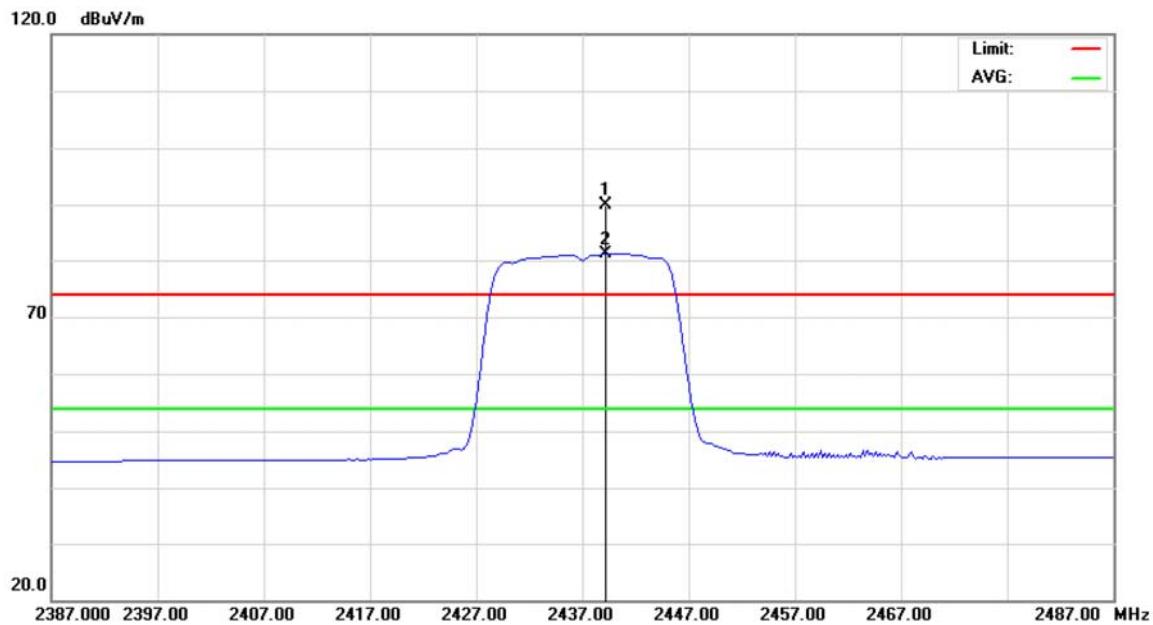


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1607.990	55.78	-3.61	52.17	74.00	-21.83	peak	
2	*	1607.990	53.94	-3.61	50.33	54.00	-3.67	AVG	
3		4823.760	48.83	7.49	56.32	74.00	-17.68	peak	
4		4823.760	37.88	7.49	45.37	54.00	-8.63	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2437 MHz		

Polarization: Vertical

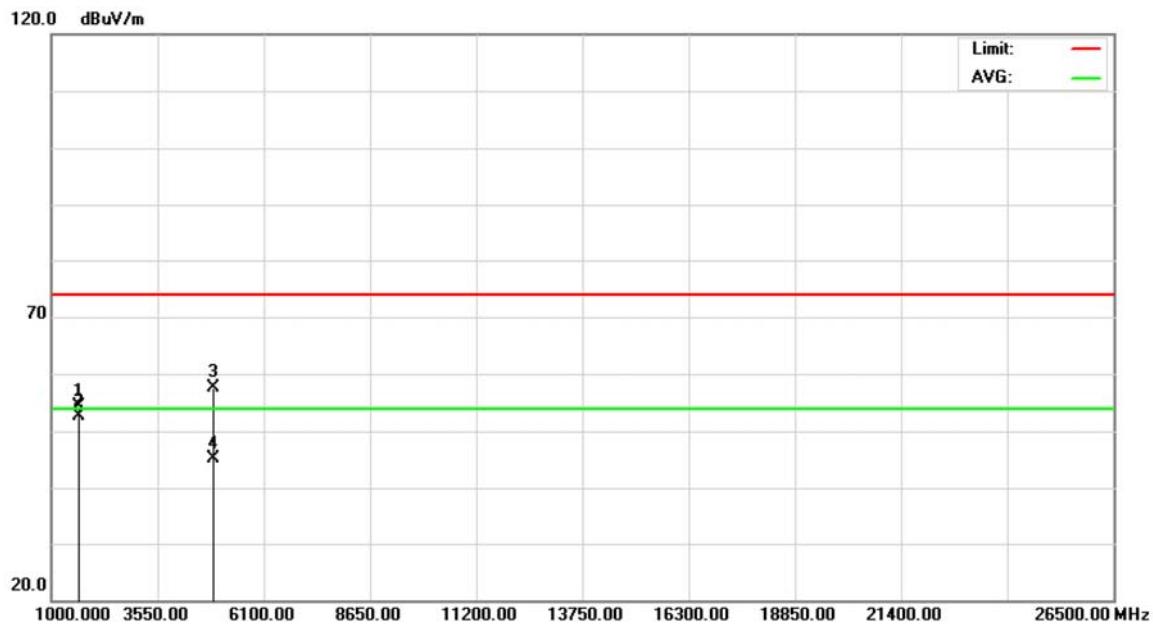


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2439.200	56.26	33.69	89.95	74.00	15.95	peak
2	*	2439.200	47.41	33.69	81.10	54.00	27.10	AVG



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2437 MHz		

Polarization: Vertical

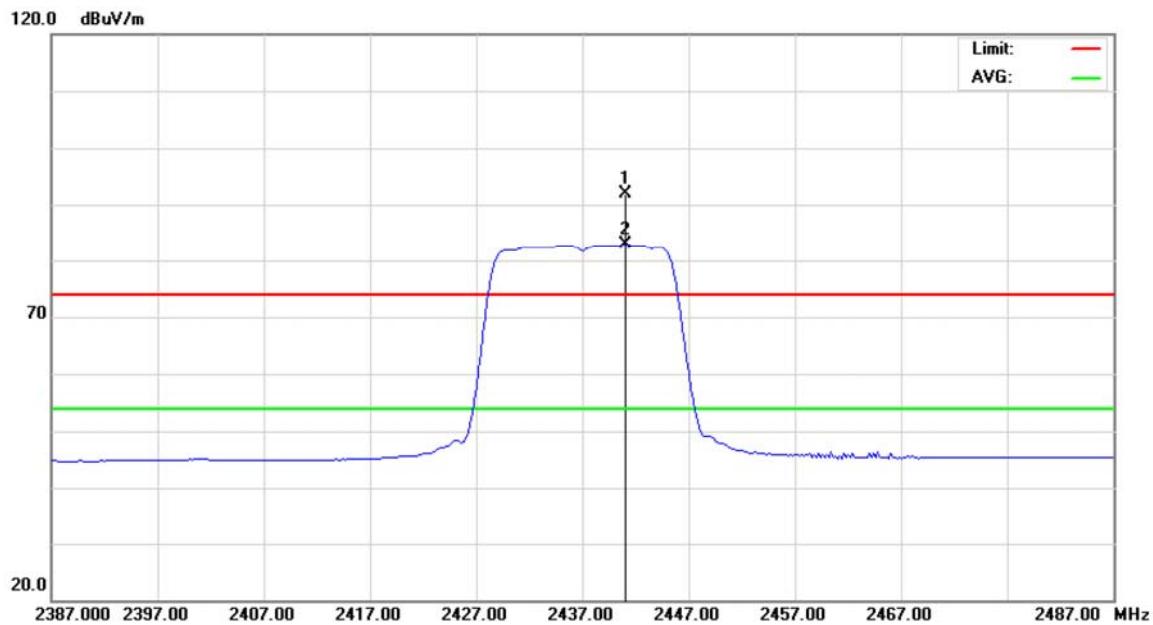


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1624.660	57.94	-3.56	54.38	74.00	-19.62	peak	
2	*	1624.660	56.27	-3.56	52.71	54.00	-1.29	AVG	
3		4874.020	50.03	7.67	57.70	74.00	-16.30	peak	
4		4874.020	37.36	7.67	45.03	54.00	-8.97	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2437 MHz		

Polarization: Horizontal

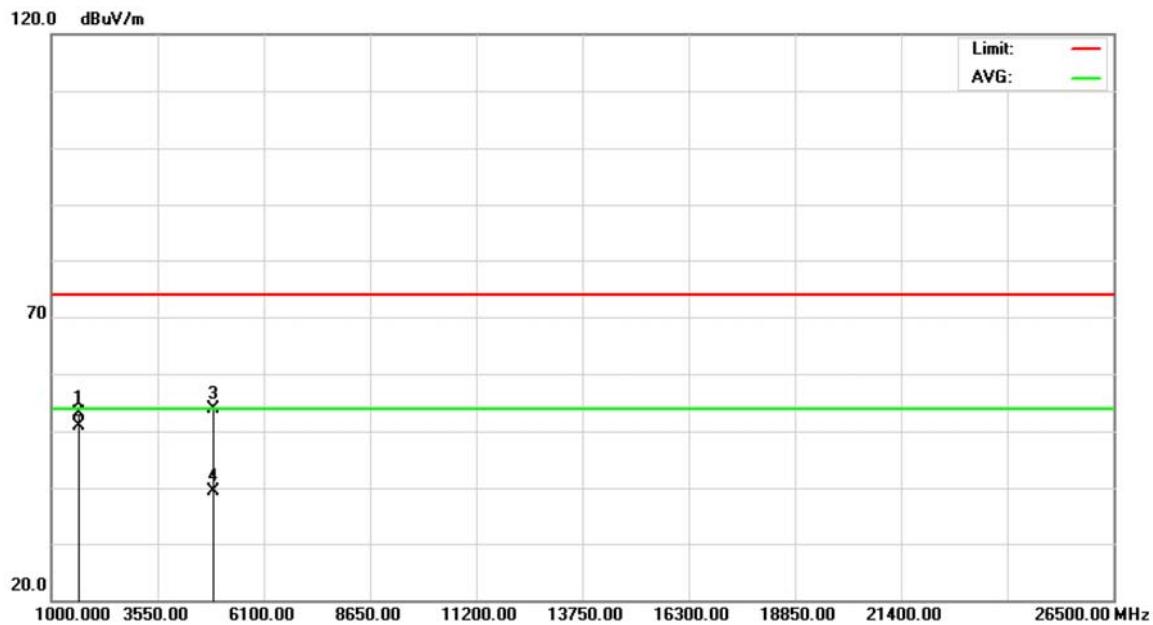


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2441.000	58.30	33.69	91.99	74.00	17.99	peak	
2	*	2441.000	49.09	33.69	82.78	54.00	28.78	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2437 MHz		

Polarization: Horizontal

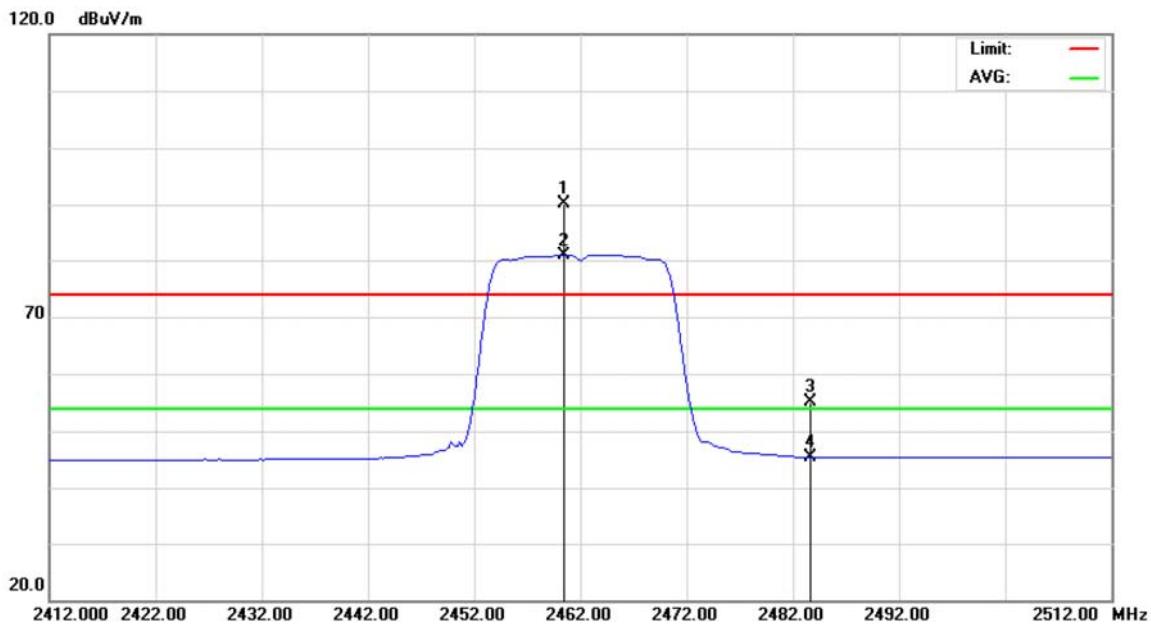


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1624.660	56.57	-3.56	53.01	74.00	-20.99	peak	
2	*	1624.660	54.51	-3.56	50.95	54.00	-3.05	AVG	
3		4874.140	46.32	7.67	53.99	74.00	-20.01	peak	
4		4874.140	31.80	7.67	39.47	54.00	-14.53	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2462 MHz		

Polarization: Vertical

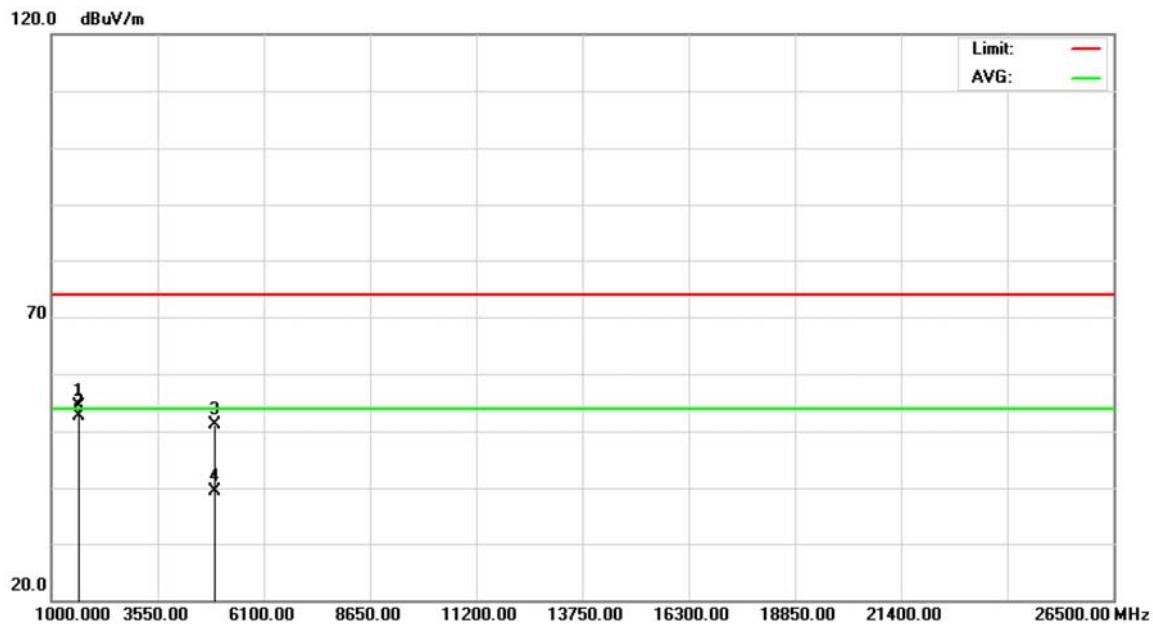


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2460.400	56.29	33.80	90.09	74.00	16.09	peak	
2	*	2460.400	47.18	33.80	80.98	54.00	26.98	AVG	
3		2483.500	21.17	33.92	55.09	74.00	-18.91	peak	
4		2483.500	11.50	33.92	45.42	54.00	-8.58	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2462 MHz		

Polarization: Vertical

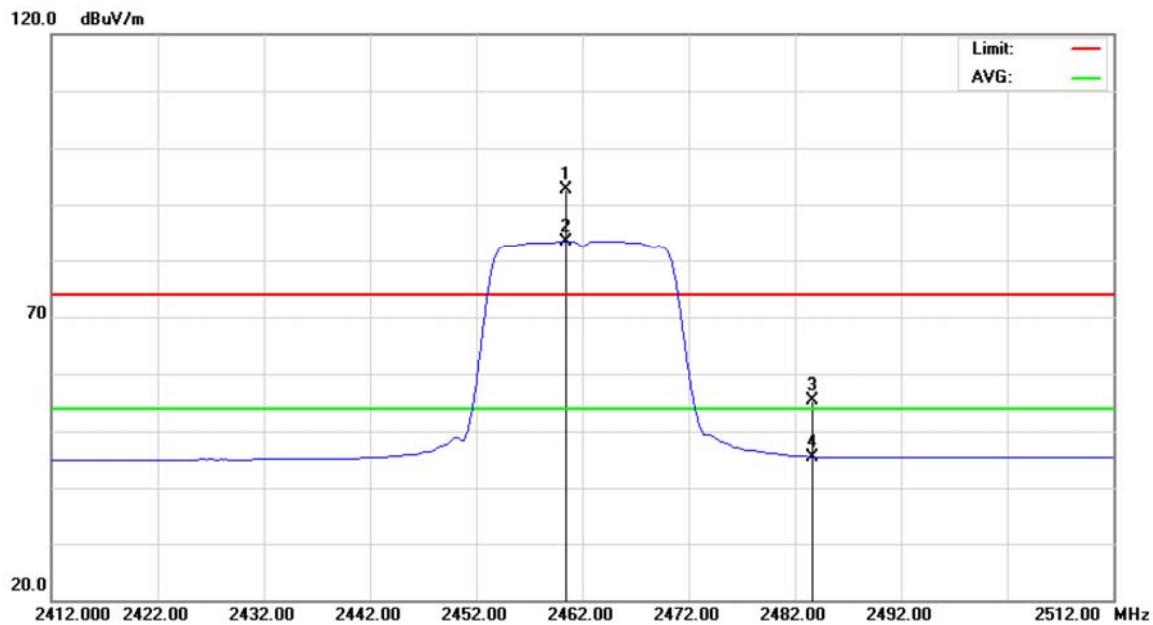


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1641.360	57.83	-3.52	54.31	74.00	-19.69	peak	
2	*	1641.360	56.16	-3.52	52.64	54.00	-1.36	AVG	
3		4924.000	43.35	7.85	51.20	74.00	-22.80	peak	
4		4924.000	31.53	7.85	39.38	54.00	-14.62	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2462 MHz		

Polarization: Horizontal

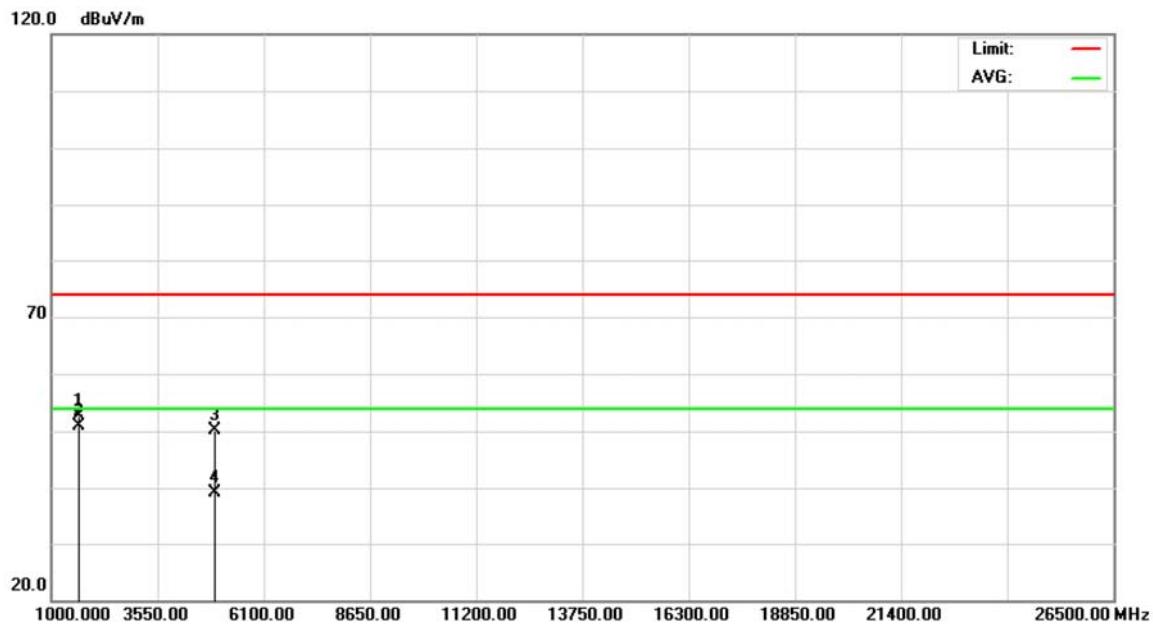


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2460.400	58.87	33.80	92.67	74.00	18.67	peak	
2	*	2460.400	49.69	33.80	83.49	54.00	29.49	AVG	
3		2483.500	21.44	33.92	55.36	74.00	-18.64	peak	
4		2483.500	11.54	33.92	45.46	54.00	-8.54	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2462 MHz		

Polarization: Horizontal

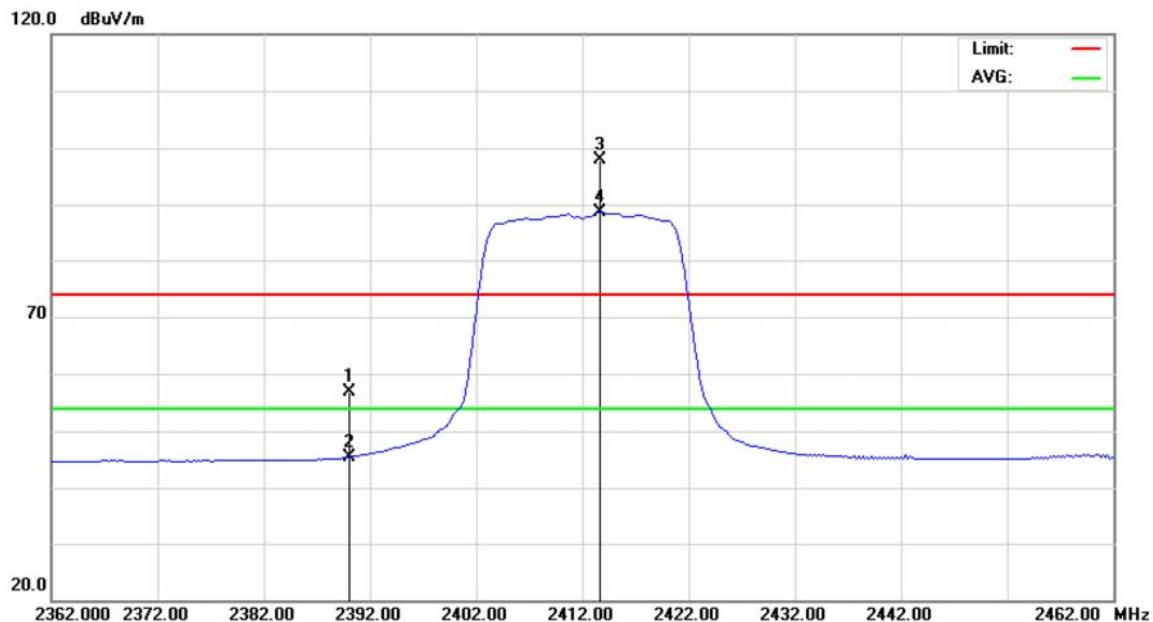


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1641.328	56.05	-3.52	52.53	74.00	-21.47	peak	
2	*	1641.328	54.50	-3.52	50.98	54.00	-3.02	AVG	
3		4923.940	42.36	7.85	50.21	74.00	-23.79	peak	
4		4923.940	31.18	7.85	39.03	54.00	-14.97	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz		

Polarization: Vertical

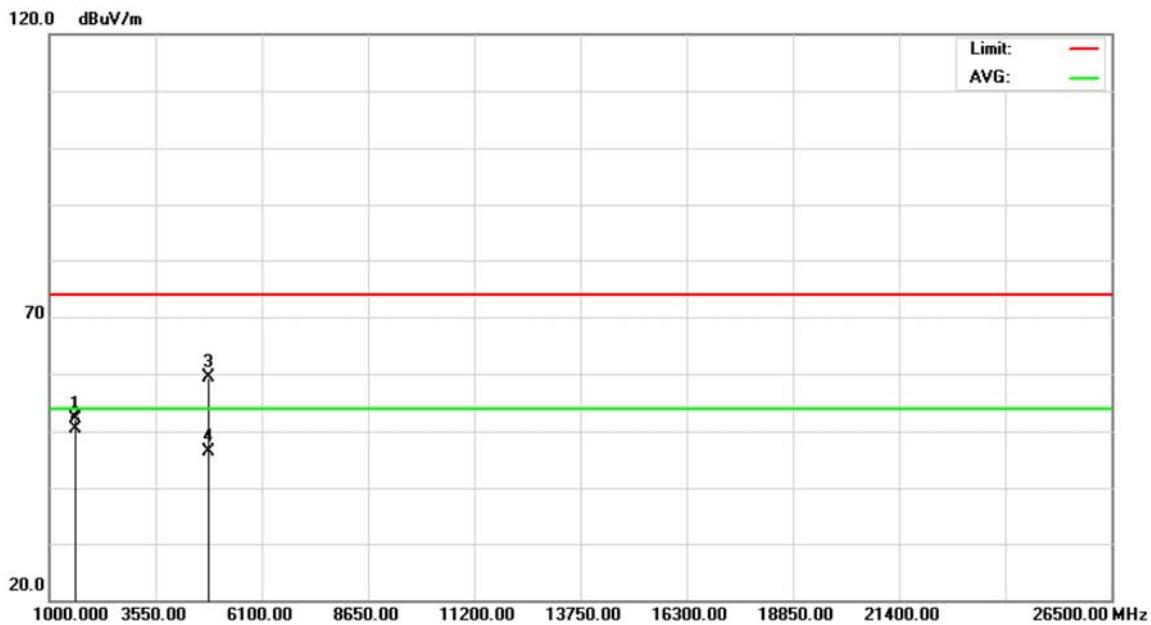


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.62	33.23	56.85	74.00	-17.15	peak	
2		2390.000	12.19	33.23	45.42	54.00	-8.58	AVG	
3	X	2413.600	64.64	33.33	97.97	74.00	23.97	peak	
4	*	2413.600	55.29	33.33	88.62	54.00	34.62	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz		

Polarization: Vertical

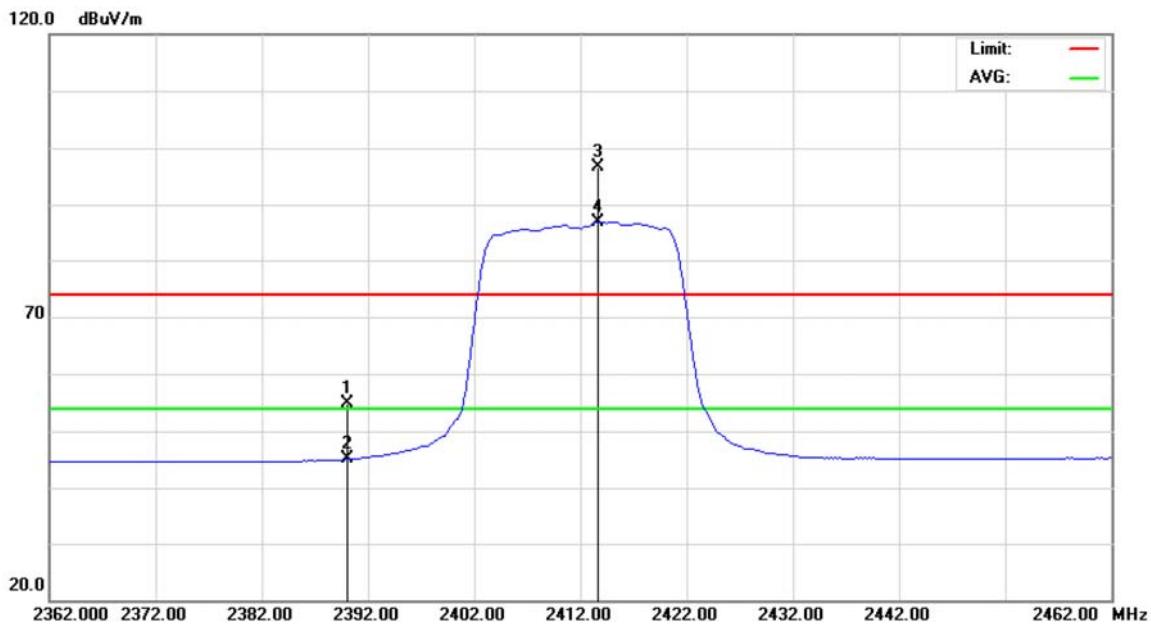


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1608.000	55.39	-3.33	52.06	74.00	-21.94	peak	
2	*	1608.000	53.75	-3.33	50.42	54.00	-3.58	AVG	
3		4824.000	51.85	7.55	59.40	74.00	-14.60	peak	
4		4824.000	38.75	7.55	46.30	54.00	-7.70	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz		

Polarization: Horizontal

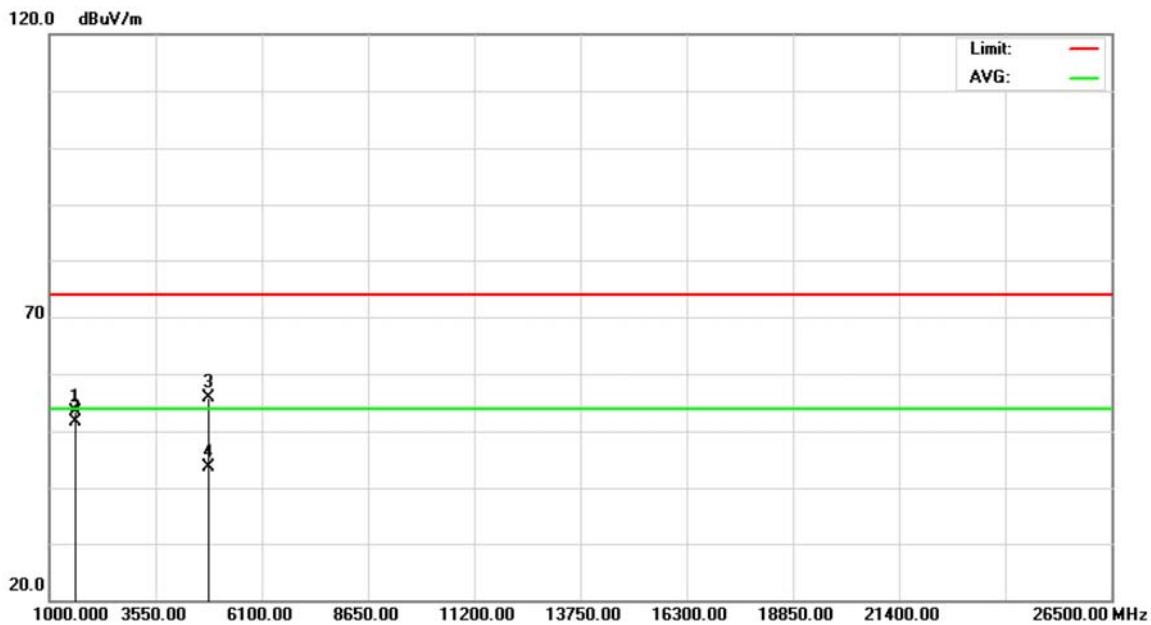


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	21.59	33.23	54.82	74.00	-19.18		peak
2		2390.000	11.78	33.23	45.01	54.00	-8.99		AVG
3	X	2413.600	63.19	33.33	96.52	74.00	22.52		peak
4	*	2413.600	53.59	33.33	86.92	54.00	32.92		AVG



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz		

Polarization: Horizontal

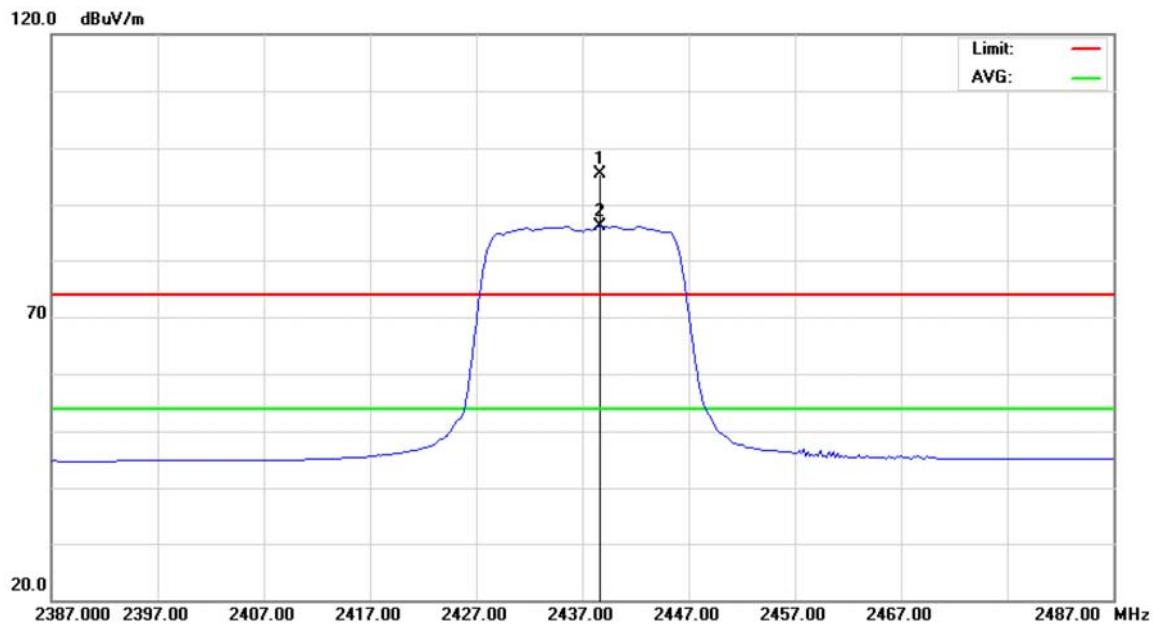


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1608.000	56.63	-3.33	53.30	74.00	-20.70	peak	
2	*	1608.000	54.91	-3.33	51.58	54.00	-2.42	AVG	
3		4824.000	48.42	7.55	55.97	74.00	-18.03	peak	
4		4824.000	36.09	7.55	43.64	54.00	-10.36	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2437 MHz		

Polarization: Vertical

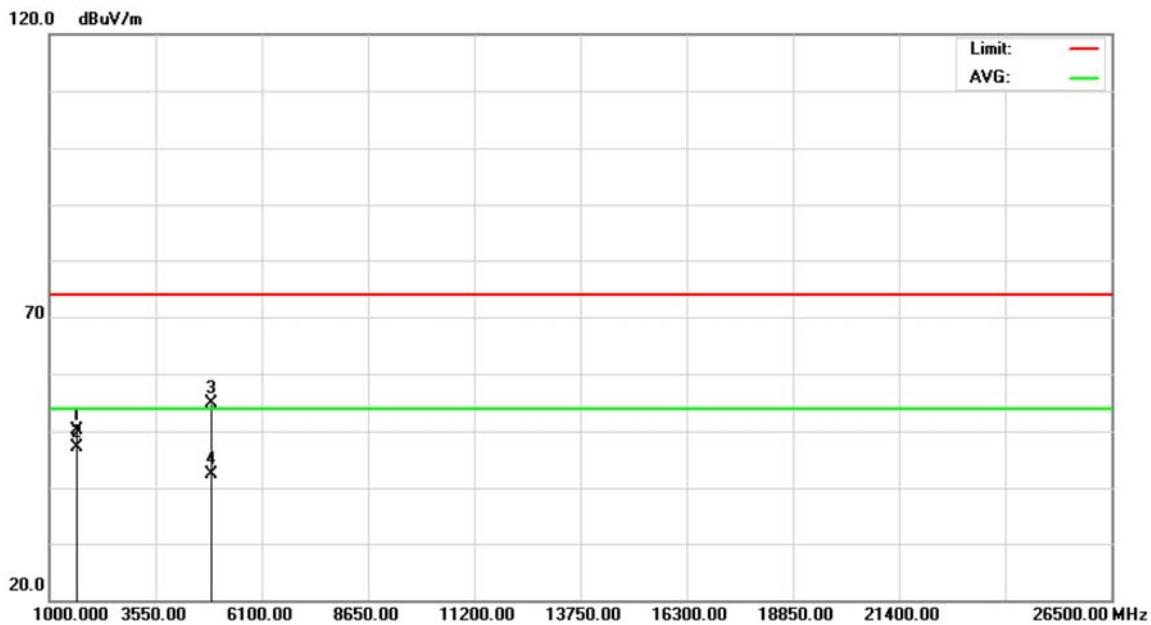


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2438.600	61.92	33.44	95.36	74.00	21.36	peak	
2	*	2438.600	52.72	33.44	86.16	54.00	32.16	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2437 MHz		

Polarization: Vertical

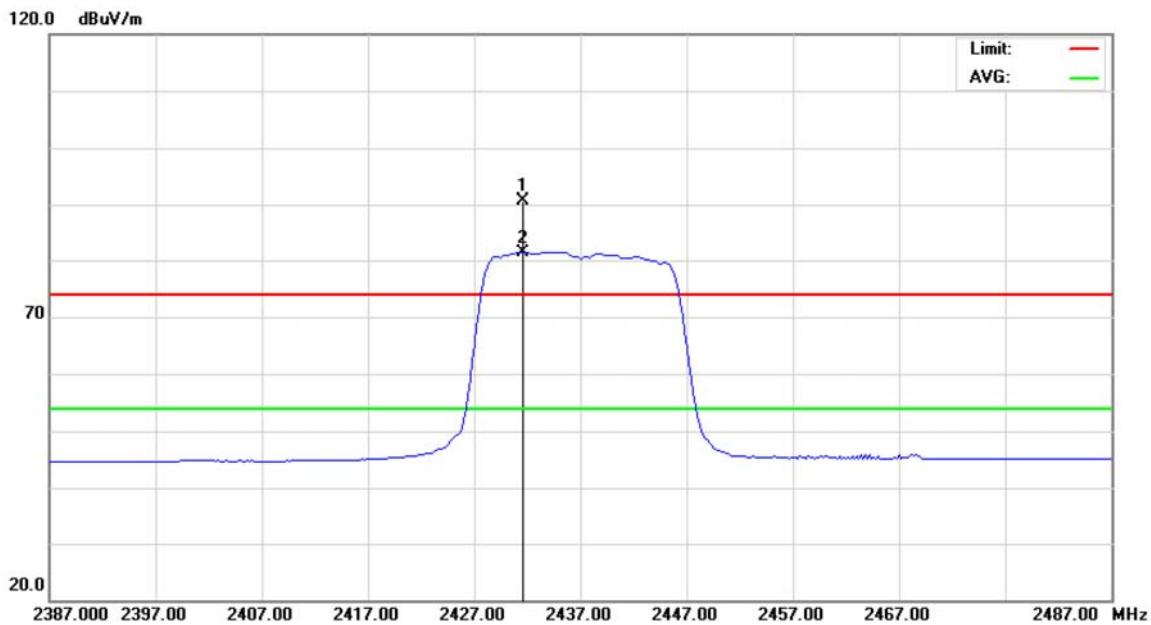


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1624.720	53.45	-3.29	50.16	74.00	-23.84		peak
2	*	1624.720	50.54	-3.29	47.25	54.00	-6.75		AVG
3		4874.040	47.05	7.74	54.79	74.00	-19.21		peak
4		4874.040	34.66	7.74	42.40	54.00	-11.60		AVG



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2437 MHz		

Polarization: Horizontal

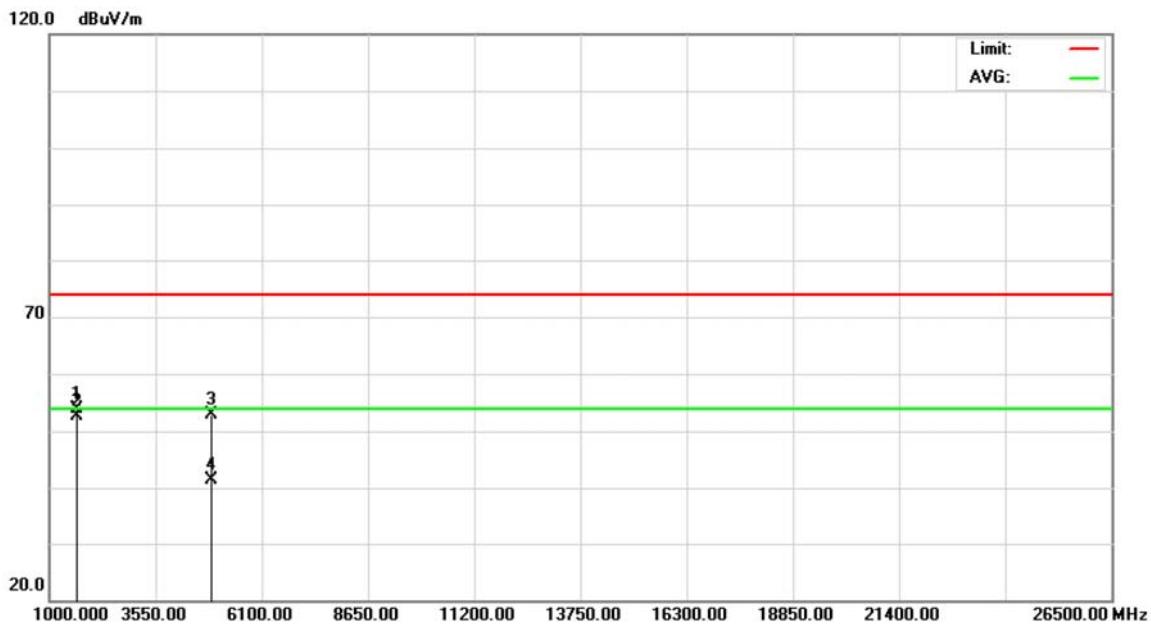


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2431.600	57.24	33.41	90.65	74.00	16.65	peak	
2	*	2431.600	48.07	33.41	81.48	54.00	27.48	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2437 MHz		

Polarization: Horizontal

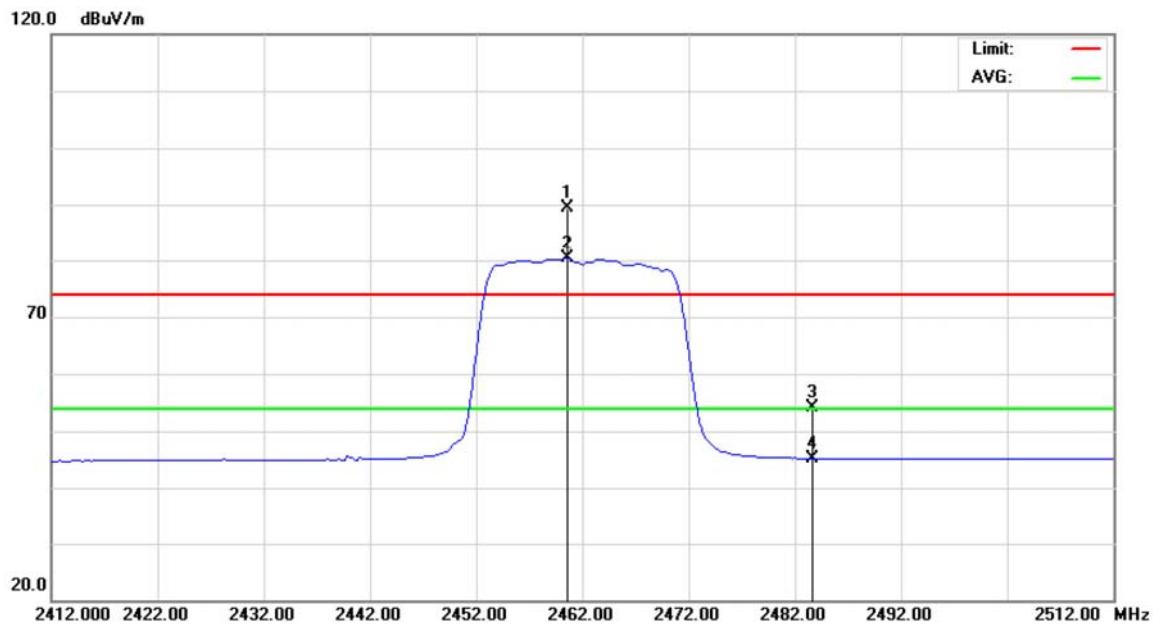


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1624.660	57.27	-3.29	53.98	74.00	-20.02	peak	
2	*	1624.660	55.97	-3.29	52.68	54.00	-1.32	AVG	
3		4873.880	45.07	7.74	52.81	74.00	-21.19	peak	
4		4873.880	33.53	7.74	41.27	54.00	-12.73	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2462 MHz		

Polarization: Vertical

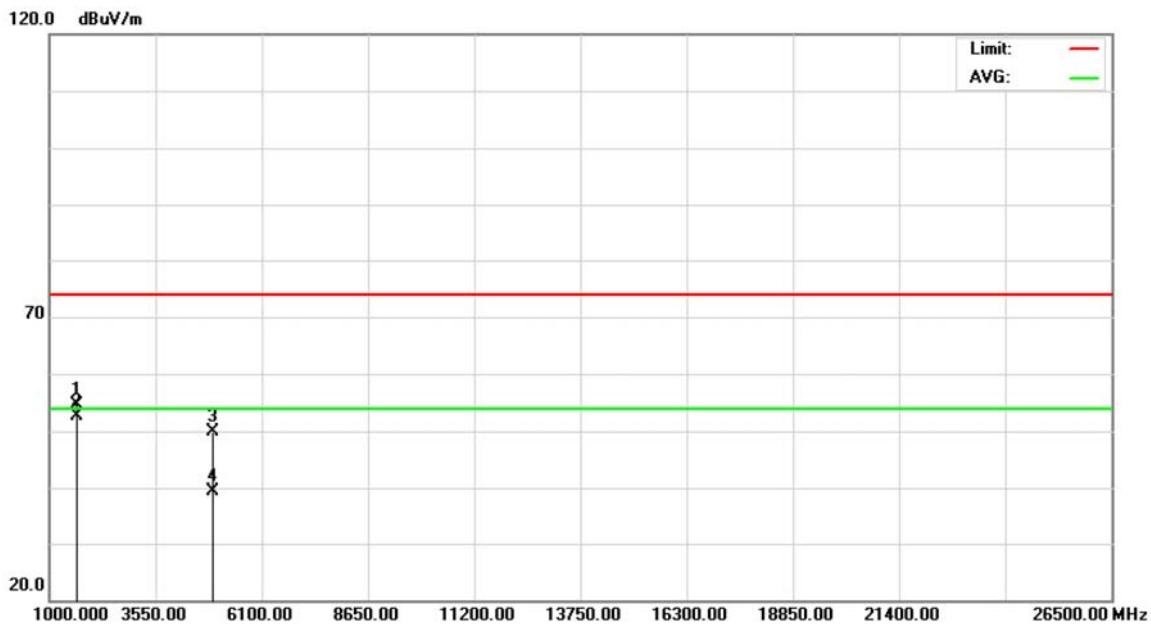


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2460.600	55.81	33.54	89.35	74.00	15.35	peak	
2	*	2460.600	46.78	33.54	80.32	54.00	26.32	AVG	
3		2483.500	20.46	33.64	54.10	74.00	-19.90	peak	
4		2483.500	11.54	33.64	45.18	54.00	-8.82	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2462 MHz		

Polarization: Vertical

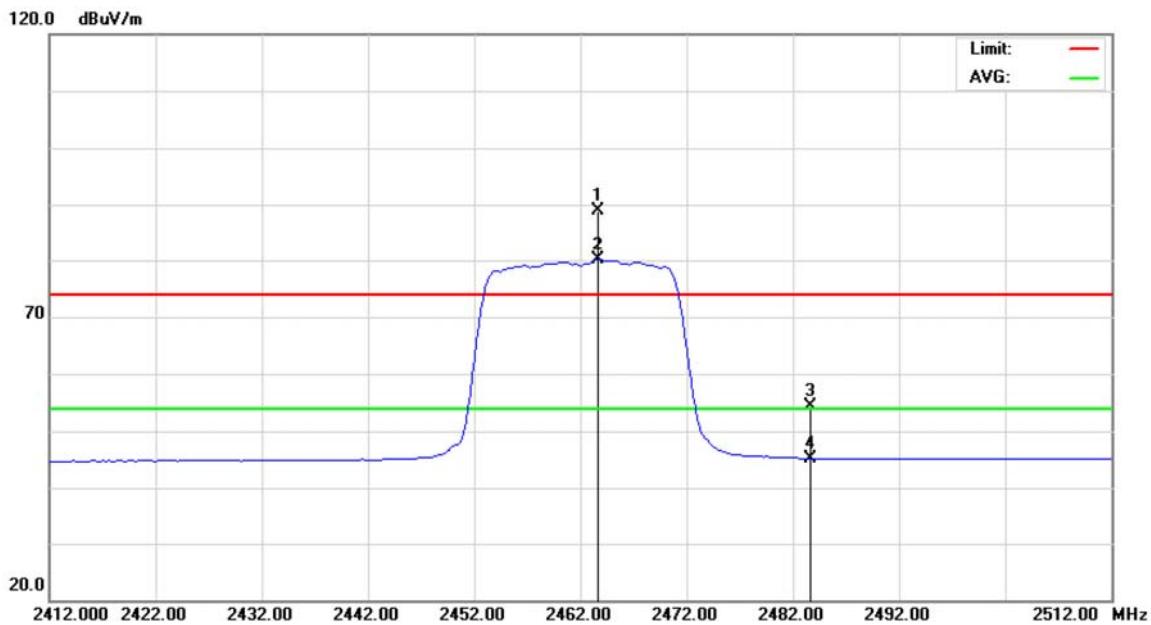


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1641.340	57.95	-3.24	54.71	74.00	-19.29	peak	
2	*	1641.340	55.83	-3.24	52.59	54.00	-1.41	AVG	
3		4924.040	41.90	7.93	49.83	74.00	-24.17	peak	
4		4924.040	31.55	7.93	39.48	54.00	-14.52	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2462 MHz		

Polarization: Horizontal

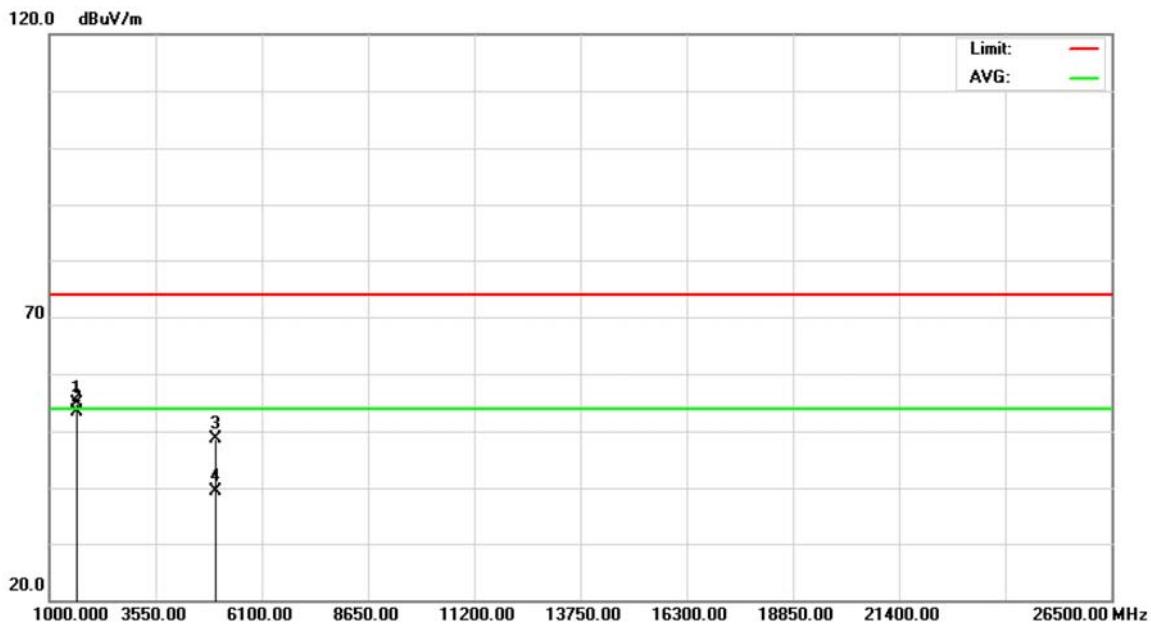


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2463.600	55.43	33.55	88.98	74.00	14.98	peak
2	*	2463.600	46.51	33.55	80.06	54.00	26.06	AVG
3		2483.500	20.66	33.64	54.30	74.00	-19.70	peak
4		2483.500	11.57	33.64	45.21	54.00	-8.79	AVG



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2462 MHz		

Polarization: Horizontal

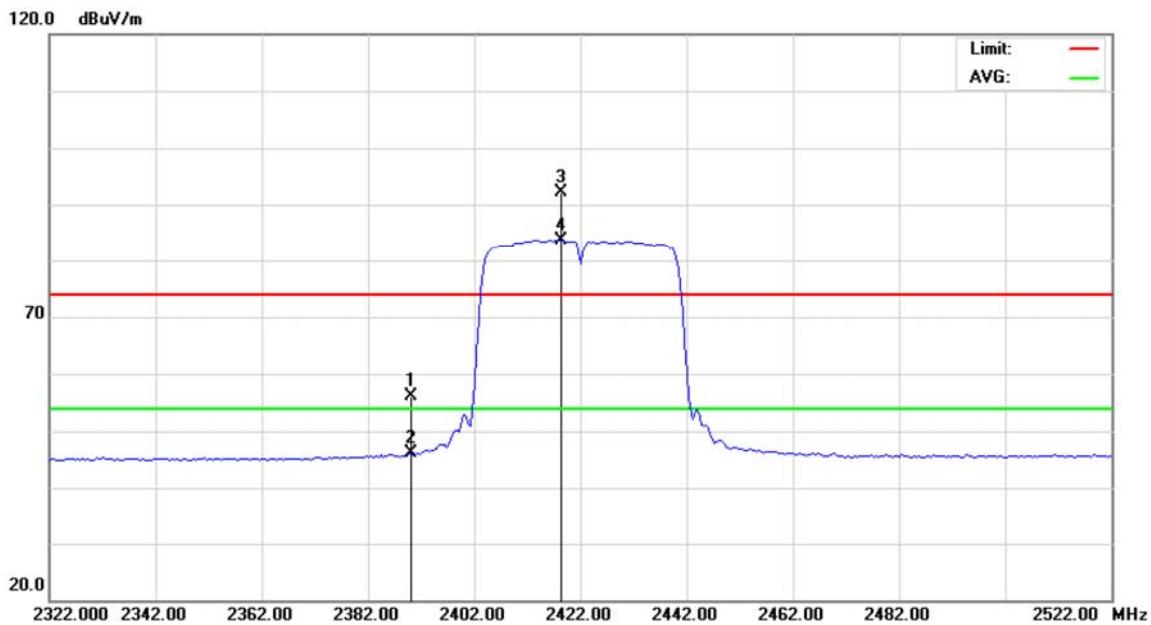


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1641.340	58.03	-3.24	54.79	74.00	-19.21	peak	
2	*	1641.340	56.56	-3.24	53.32	54.00	-0.68	AVG	
3		4932.960	40.62	7.97	48.59	74.00	-25.41	peak	
4		4932.960	31.49	7.97	39.46	54.00	-14.54	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz		

Polarization: Vertical

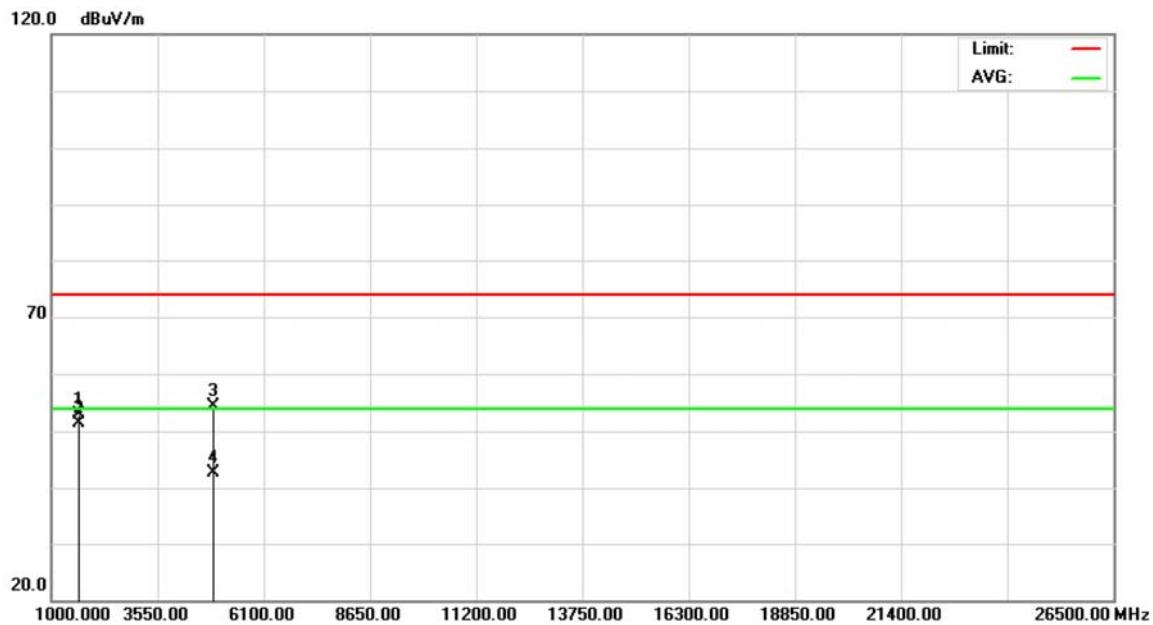


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	22.87	33.23	56.10	74.00	-17.90		peak
2		2390.000	12.87	33.23	46.10	54.00	-7.90		AVG
3	X	2418.400	58.84	33.36	92.20	74.00	18.20		peak
4	*	2418.400	50.39	33.36	83.75	54.00	29.75		AVG



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz		

Polarization: Vertical

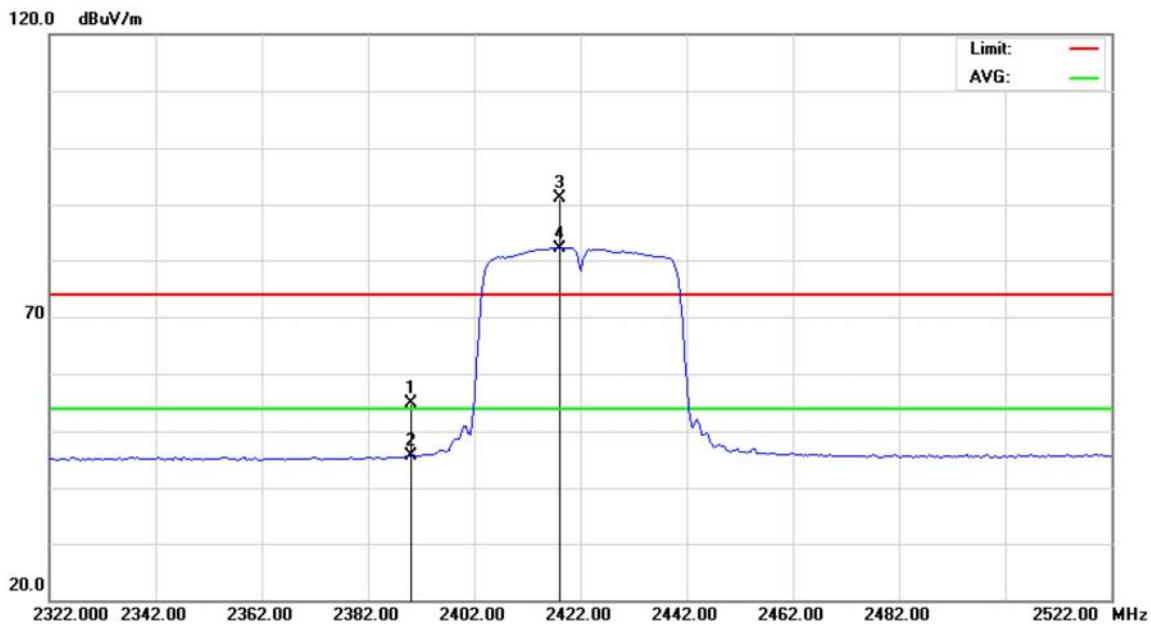


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1614.640	56.11	-3.32	52.79	74.00	-21.21	peak	
2	*	1614.640	54.68	-3.32	51.36	54.00	-2.64	AVG	
3		4844.040	46.68	7.63	54.31	74.00	-19.69	peak	
4		4844.040	34.88	7.63	42.51	54.00	-11.49	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz		

Polarization: Horizontal

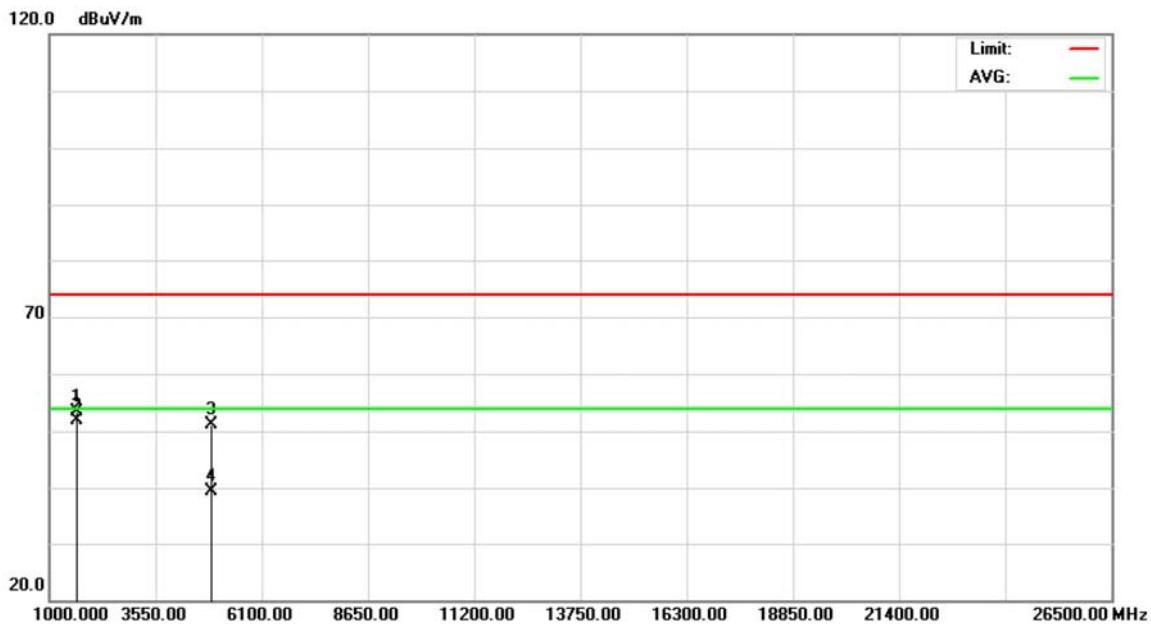


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		2390.000	21.53	33.23	54.76	74.00	-19.24	peak	
2		2390.000	12.35	33.23	45.58	54.00	-8.42	AVG	
3	X	2418.000	57.85	33.35	91.20	74.00	17.20	peak	
4	*	2418.000	48.90	33.35	82.25	54.00	28.25	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz		

Polarization: Horizontal

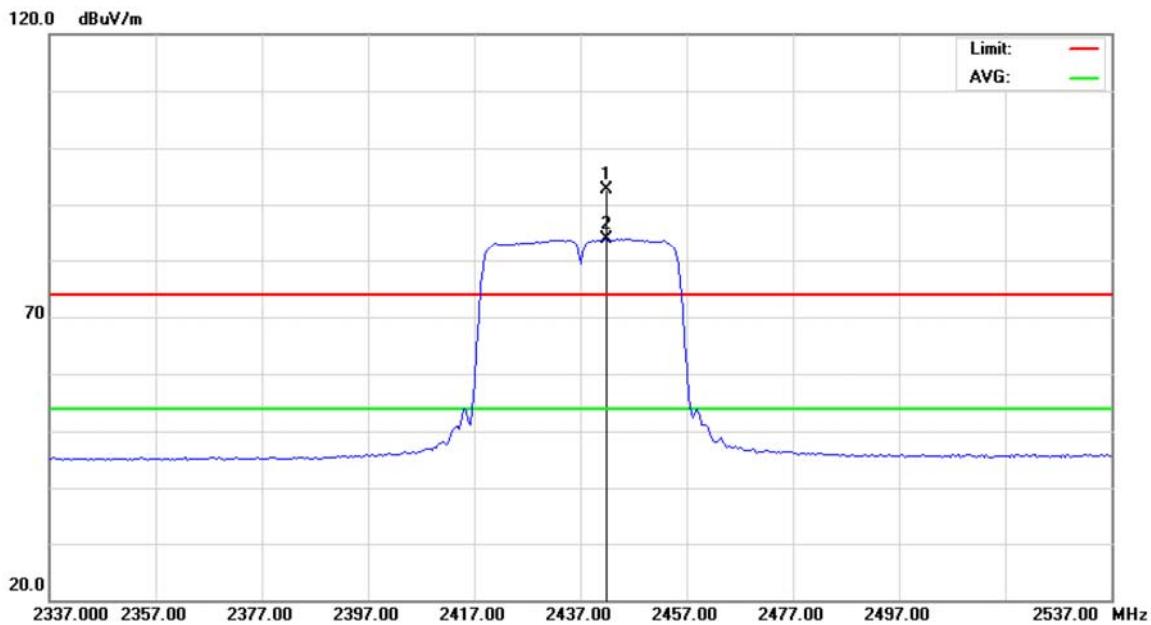


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1614.660	56.72	-3.32	53.40	74.00	-20.60	peak	
2	*	1614.660	55.27	-3.32	51.95	54.00	-2.05	AVG	
3		4843.700	43.61	7.63	51.24	74.00	-22.76	peak	
4		4843.700	31.87	7.63	39.50	54.00	-14.50	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2437 MHz		

Polarization: Vertical

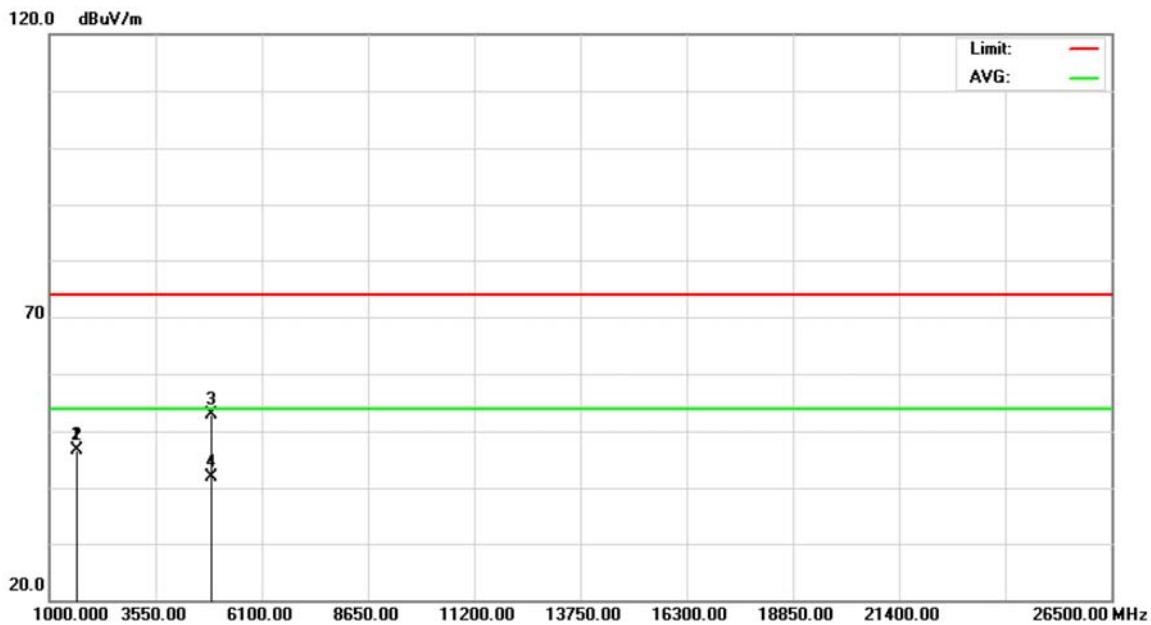


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2441.800	59.07	33.46	92.53	74.00	18.53	peak
2	*	2441.800	50.34	33.46	83.80	54.00	29.80	AVG



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2437 MHz		

Polarization: Vertical

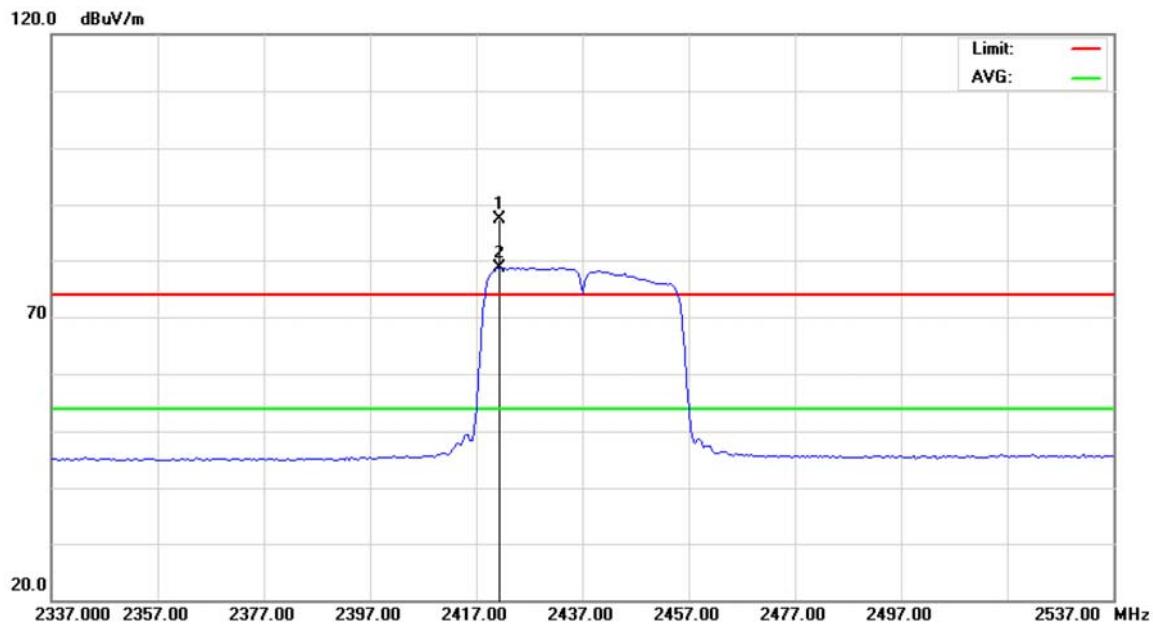


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1624.650	49.93	-3.29	46.64	74.00	-27.36	peak	
2	*	1624.650	49.93	-3.29	46.64	54.00	-7.36	AVG	
3		4874.280	45.10	7.74	52.84	74.00	-21.16	peak	
4		4874.280	34.11	7.74	41.85	54.00	-12.15	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2437 MHz		

Polarization: Horizontal

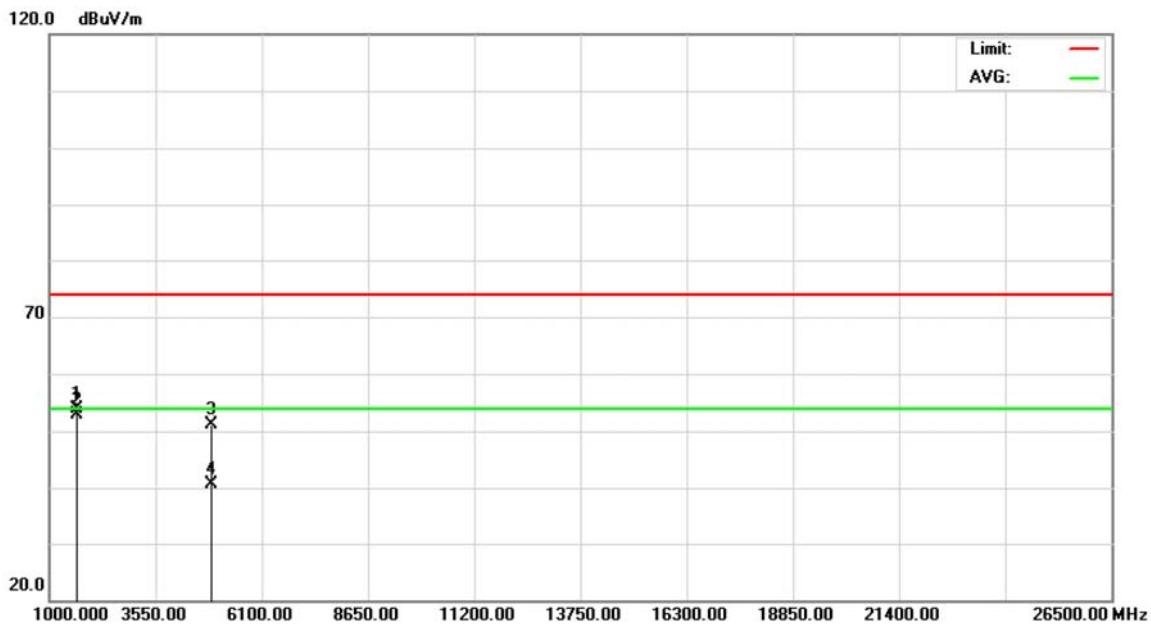


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2421.400	54.13	33.37	87.50	74.00	13.50	peak	
2	*	2421.400	45.31	33.37	78.68	54.00	24.68	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2437 MHz		

Polarization: Horizontal

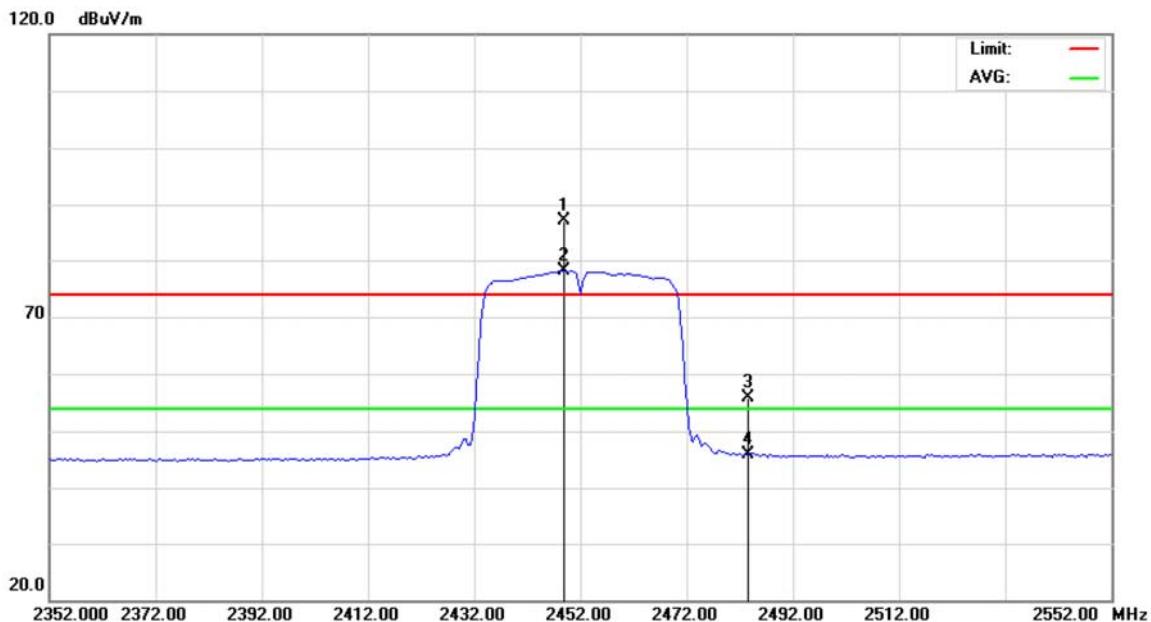


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		1624.670	57.21	-3.29	53.92	74.00	-20.08	peak	
2	*	1624.670	56.18	-3.29	52.89	54.00	-1.11	AVG	
3		4874.360	43.39	7.74	51.13	74.00	-22.87	peak	
4		4874.360	33.00	7.74	40.74	54.00	-13.26	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2452 MHz		

Polarization: Vertical

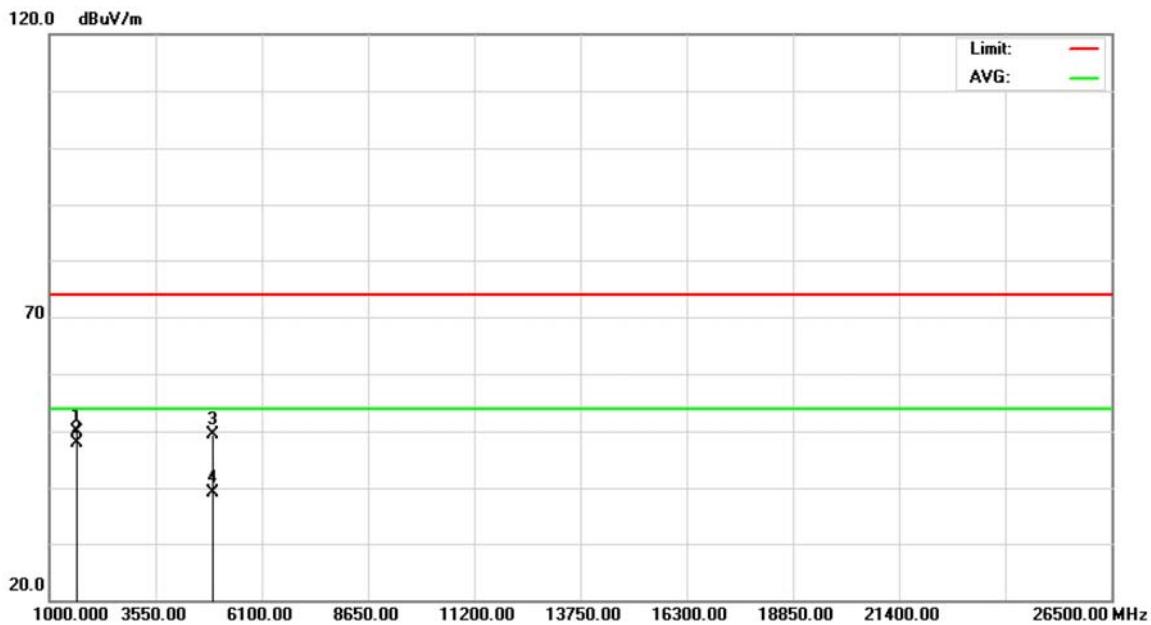


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2448.800	53.66	33.49	87.15	74.00	13.15	peak
2	*	2448.800	44.64	33.49	78.13	54.00	24.13	AVG
3		2483.500	22.13	33.64	55.77	74.00	-18.23	peak
4		2483.500	12.21	33.64	45.85	54.00	-8.15	AVG



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2452 MHz		

Polarization: Vertical

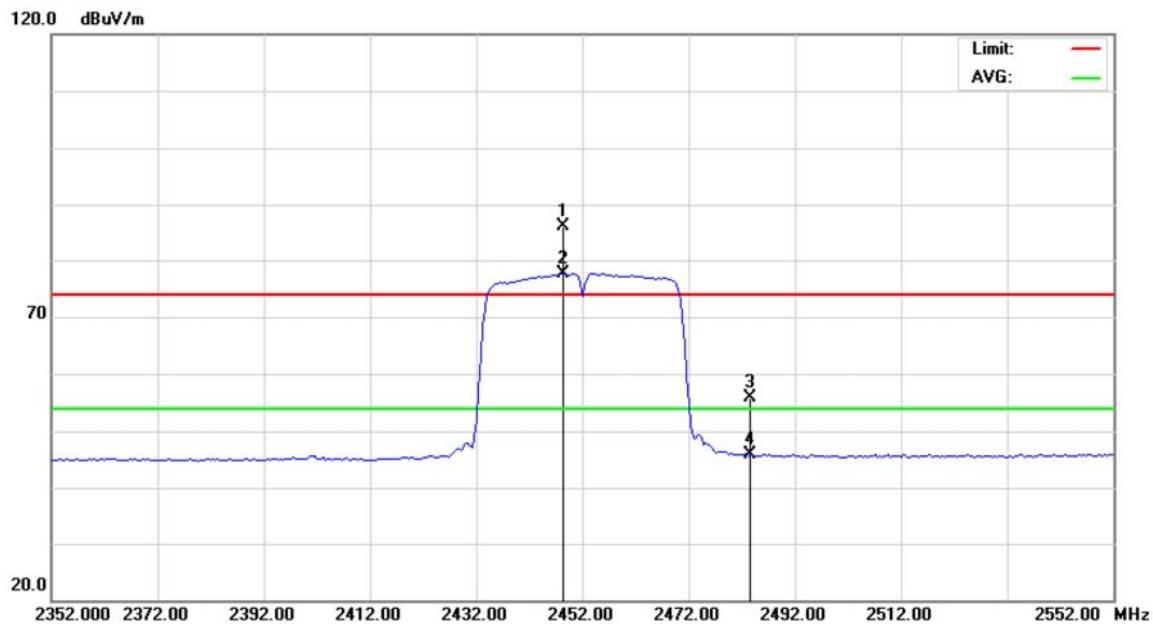


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1634.640	53.23	-3.26	49.97	74.00	-24.03	peak	
2	*	1634.640	51.19	-3.26	47.93	54.00	-6.07	AVG	
3		4906.620	41.44	7.87	49.31	74.00	-24.69	peak	
4		4906.620	31.23	7.87	39.10	54.00	-14.90	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2452 MHz		

Polarization: Horizontal

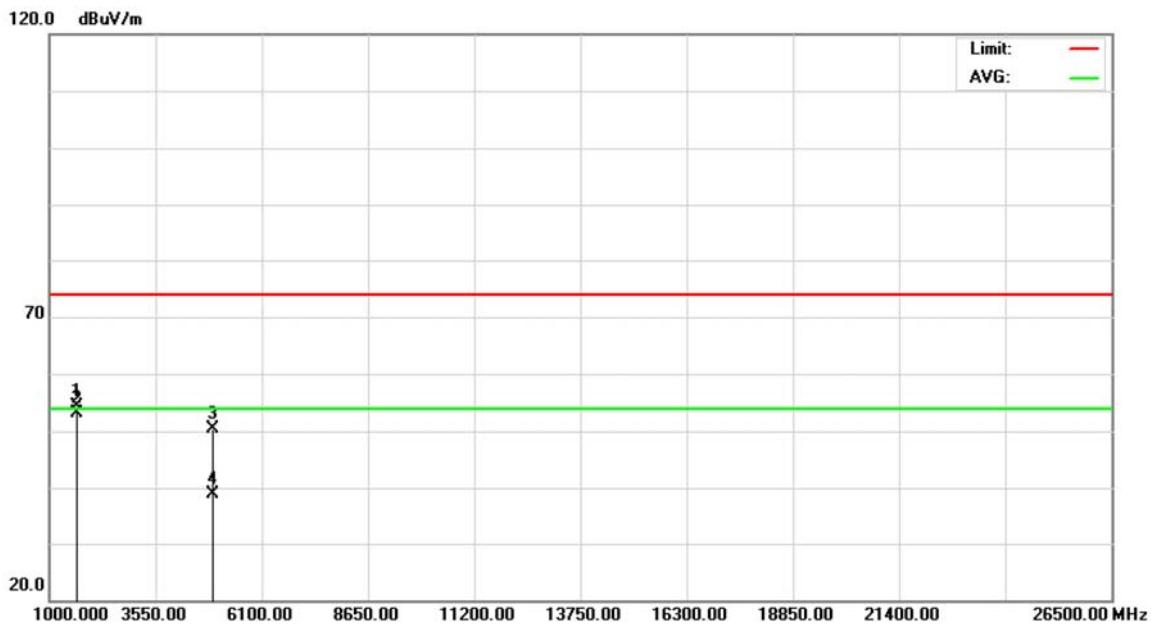


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	X	2448.400	52.74	33.49	86.23	74.00	12.23	peak	
2	*	2448.400	44.19	33.49	77.68	54.00	23.68	AVG	
3		2483.500	22.28	33.64	55.92	74.00	-18.08	peak	
4		2483.500	12.13	33.64	45.77	54.00	-8.23	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2452 MHz		

Polarization: Horizontal



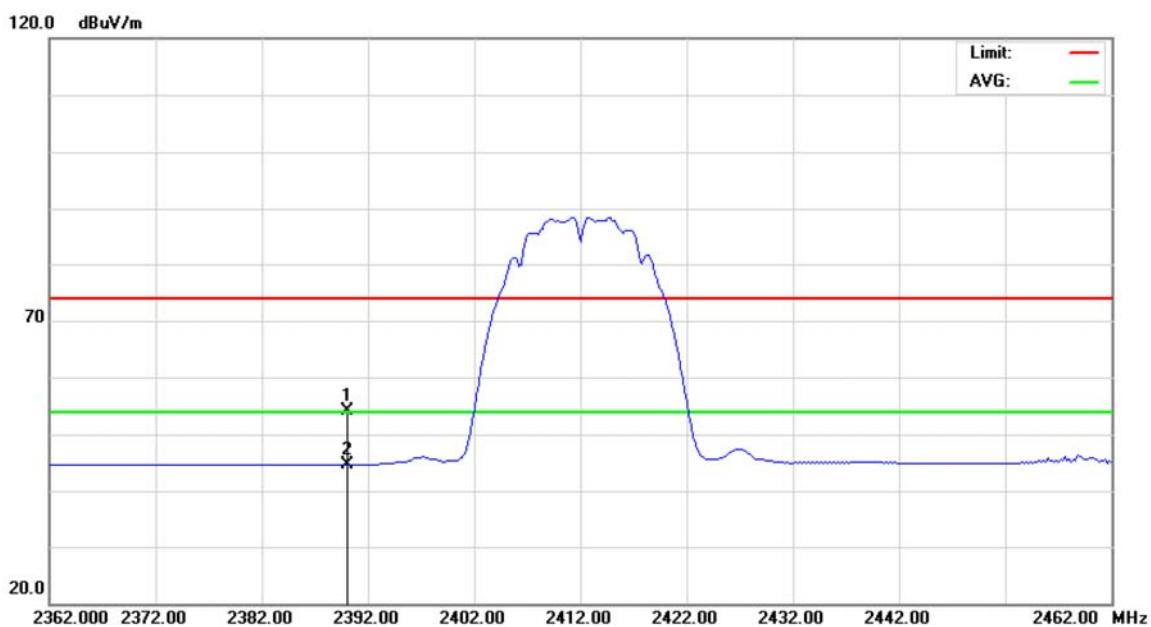
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		1634.650	57.60	-3.26	54.34	74.00	-19.66	peak
2	*	1634.650	56.37	-3.26	53.11	54.00	-0.89	AVG
3		4904.552	42.63	7.86	50.49	74.00	-23.51	peak
4		4904.552	31.08	7.86	38.94	54.00	-15.06	AVG



8.9 TEST RESULTS (RESTRICTED BANDS)

E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

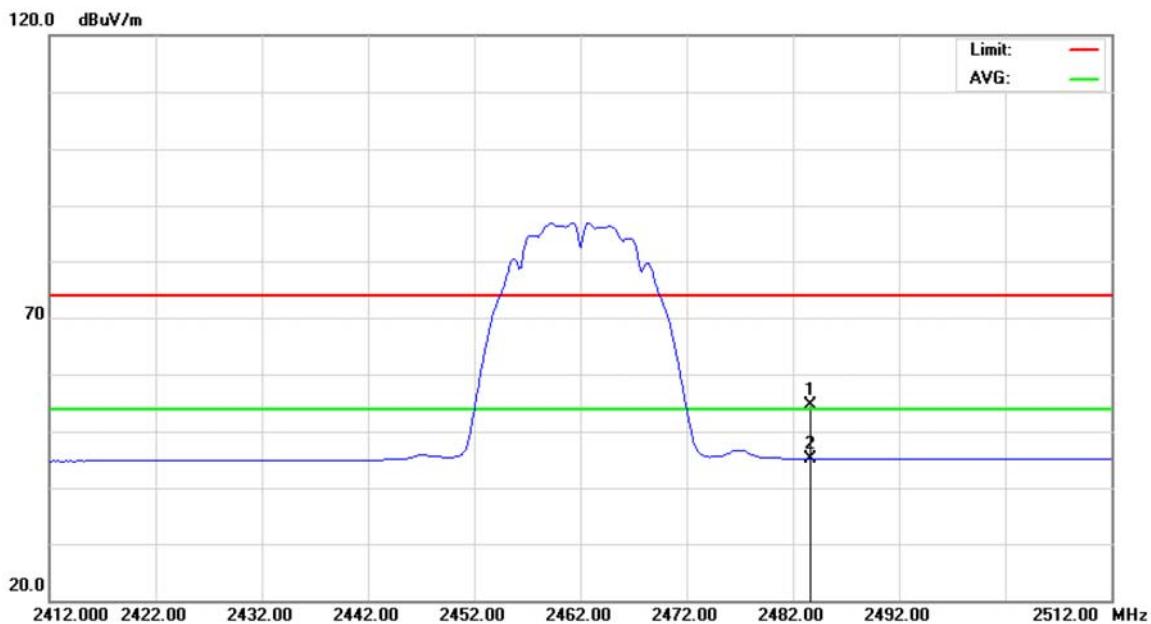


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	20.98	33.23	54.21	74.00	-19.79	peak	
2	*	2390.000	11.37	33.23	44.60	54.00	-9.40	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

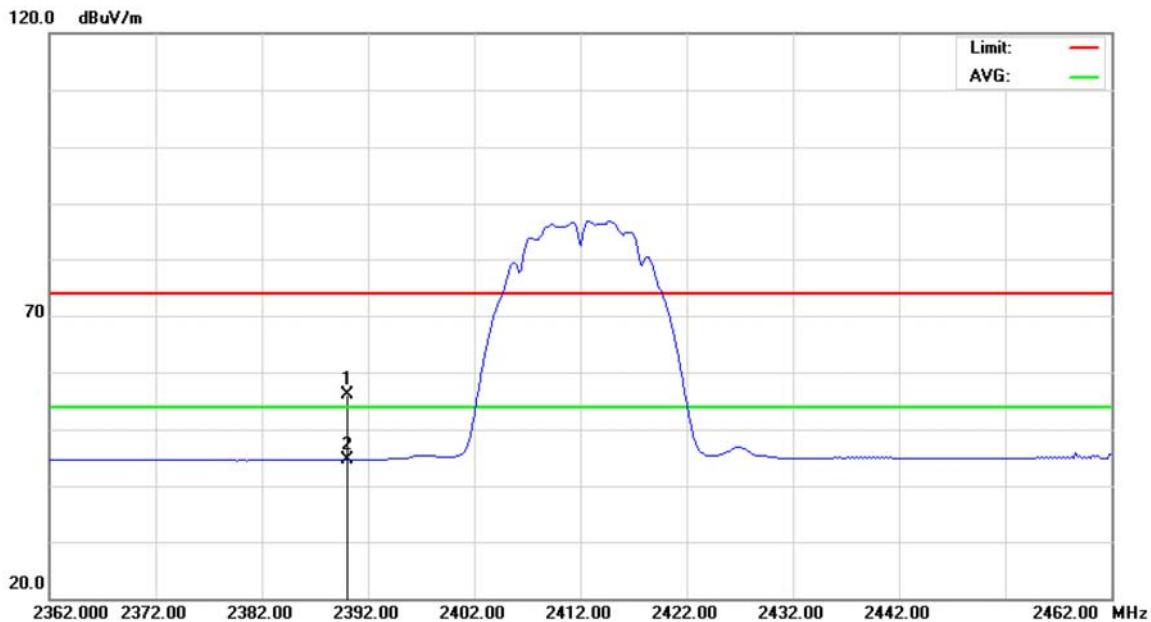


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2483.500	20.91	33.64	54.55	74.00	-19.45	peak	
2	*	2483.500	11.45	33.64	45.09	54.00	-8.91	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

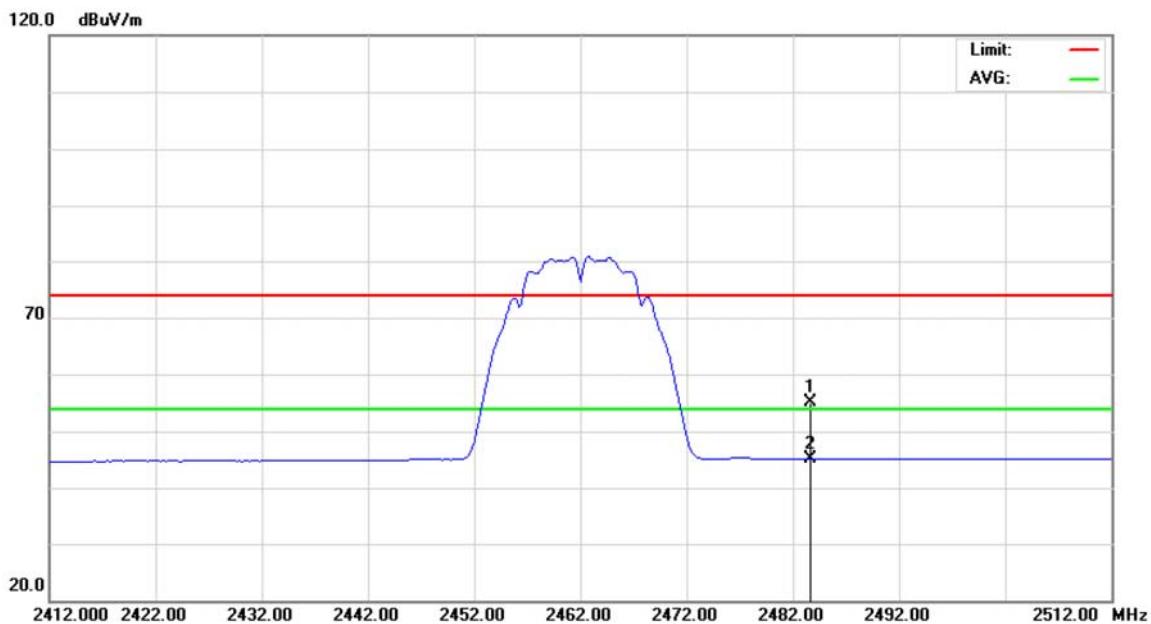


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	22.81	33.23	56.04	74.00	-17.96	peak	
2	*	2390.000	11.35	33.23	44.58	54.00	-9.42	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal

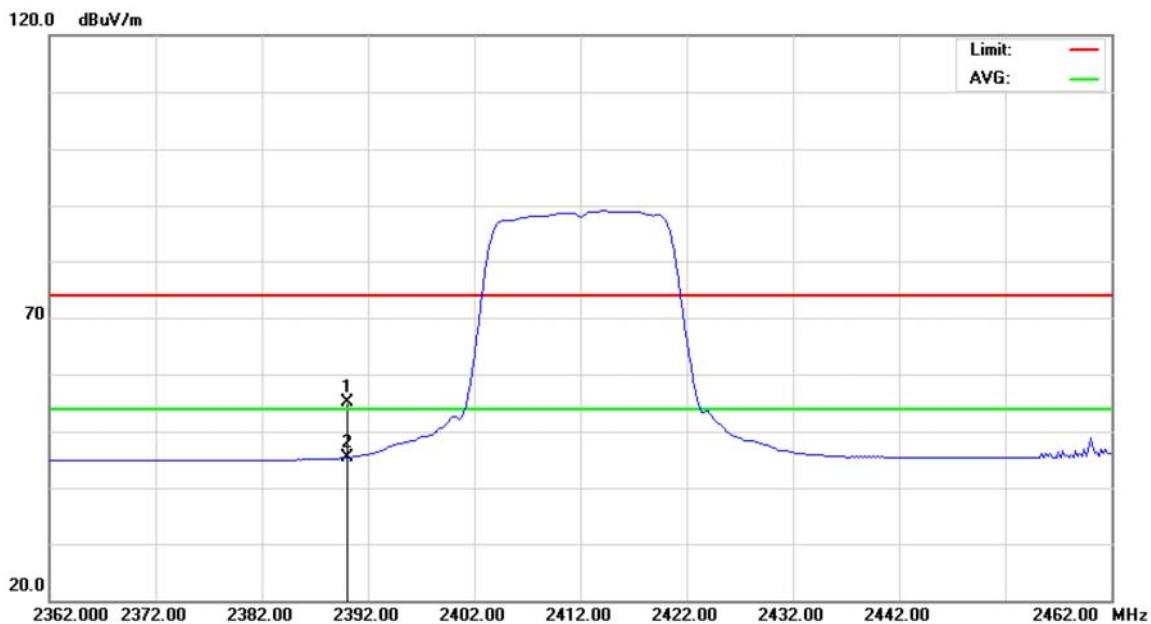


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2483.500	21.58	33.64	55.22	74.00	-18.78	peak	
2	*	2483.500	11.38	33.64	45.02	54.00	-8.98	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

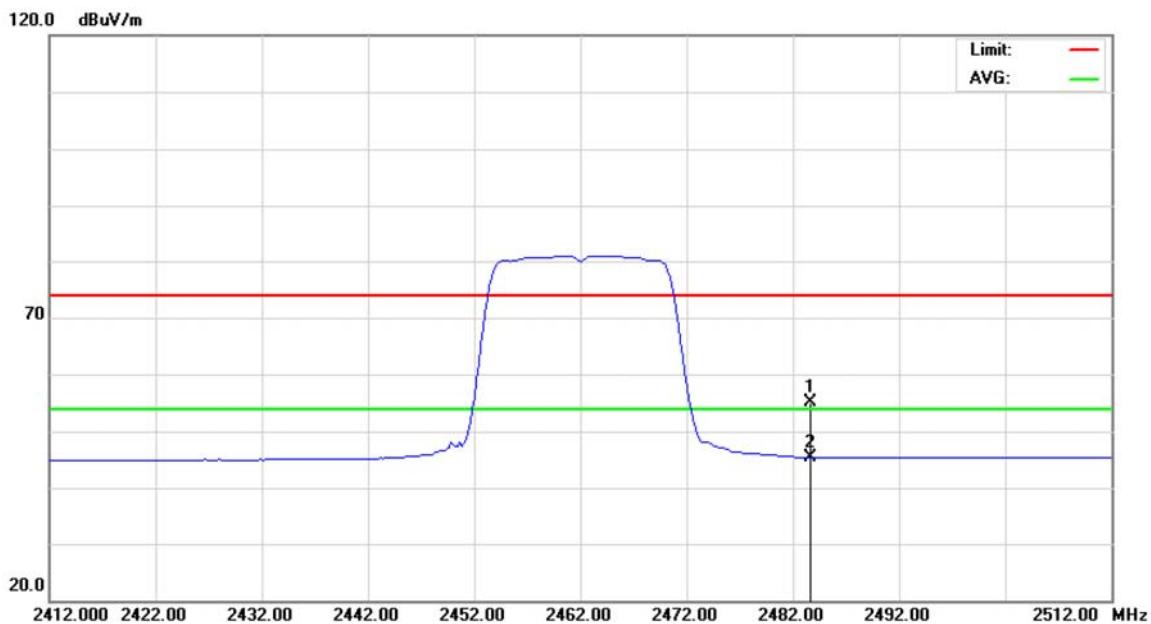


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	21.63	33.42	55.05	74.00	-18.95	peak	
2	*	2390.000	11.93	33.42	45.35	54.00	-8.65	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

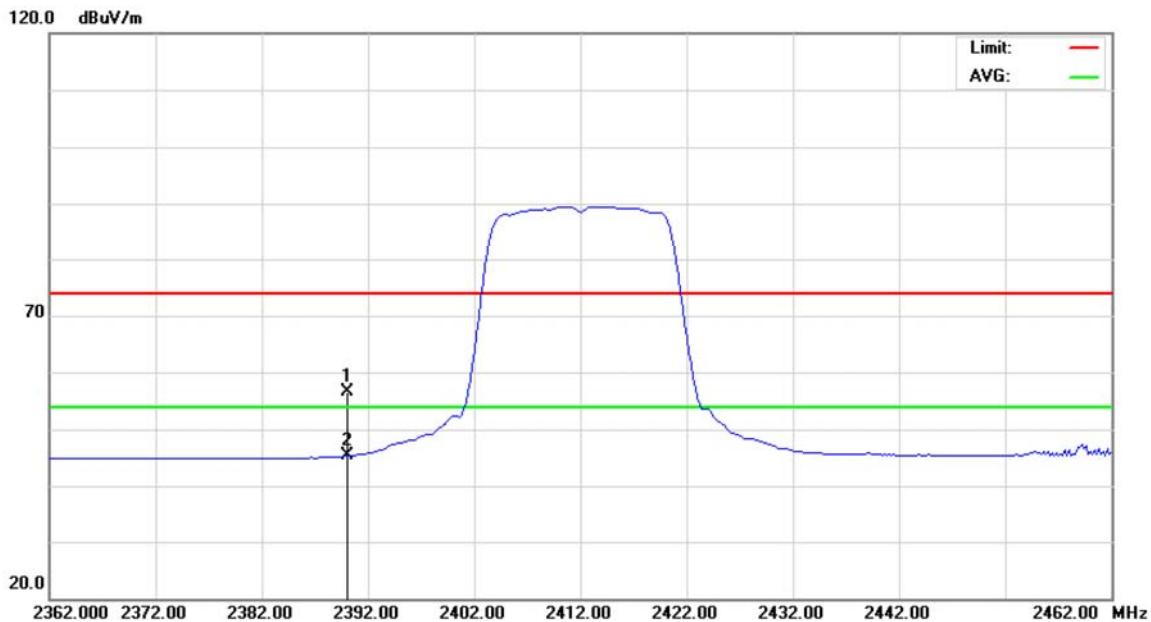


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2483.500	21.17	33.92	55.09	74.00	-18.91	peak	
2	*	2483.500	11.50	33.92	45.42	54.00	-8.58	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

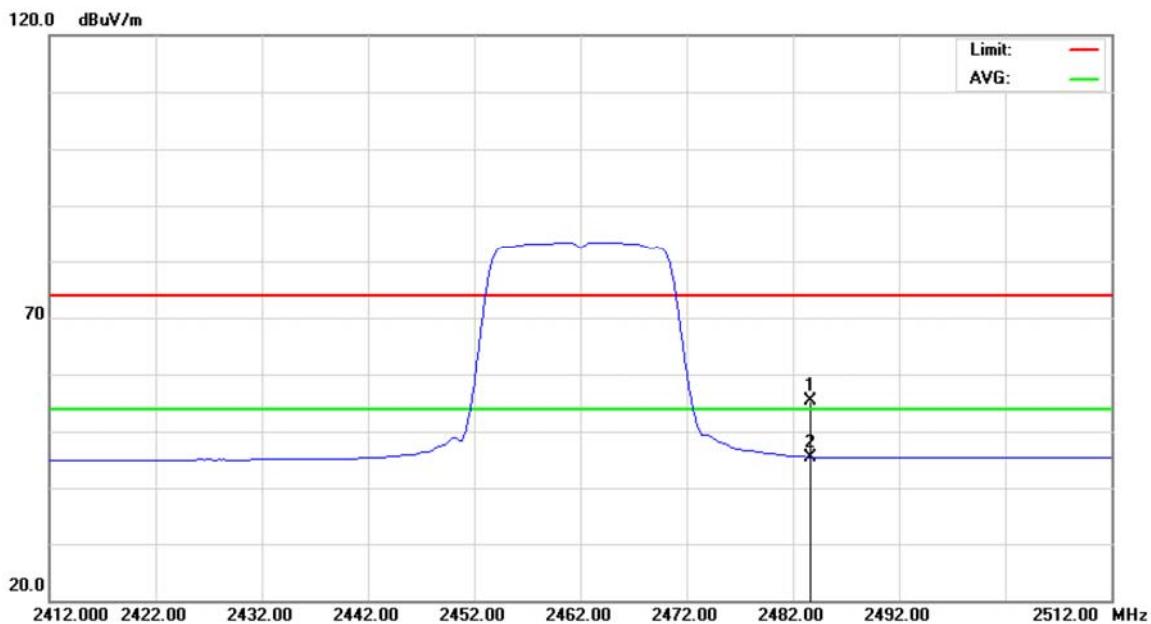


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	23.24	33.42	56.66	74.00	-17.34	peak	
2	*	2390.000	11.86	33.42	45.28	54.00	-8.72	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal

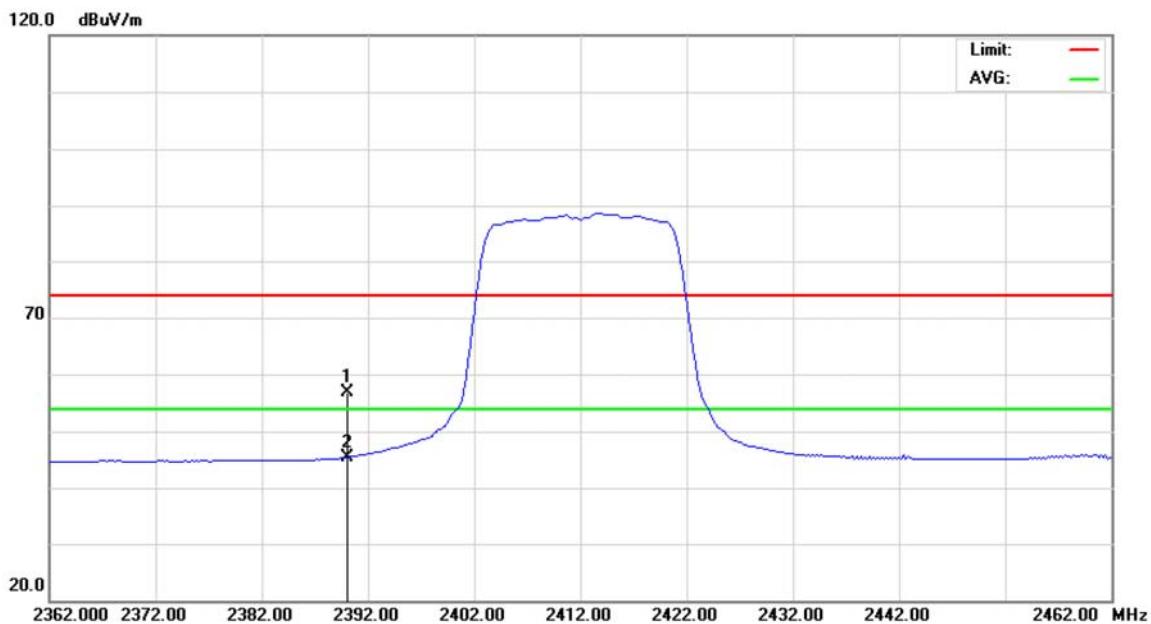


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dB _{uV}	dB	dB _{uV/m}	dB _{uV/m}	dB		
1		2483.500	21.44	33.92	55.36	74.00	-18.64	peak	
2	*	2483.500	11.54	33.92	45.46	54.00	-8.54	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

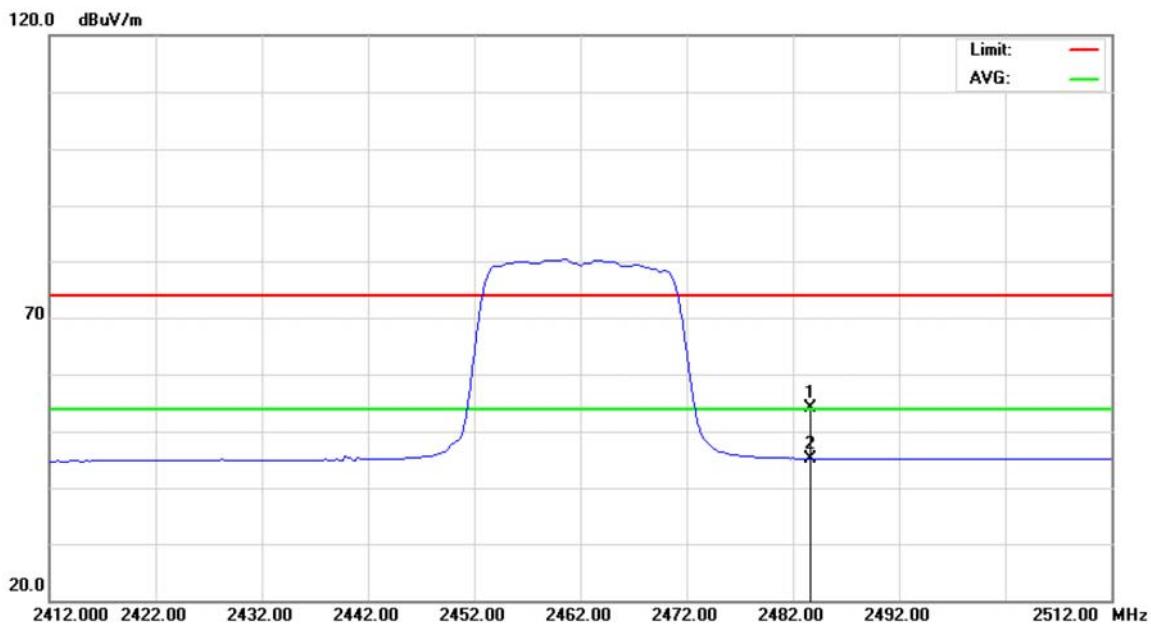


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	23.62	33.23	56.85	74.00	-17.15	peak	
2	*	2390.000	12.19	33.23	45.42	54.00	-8.58	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

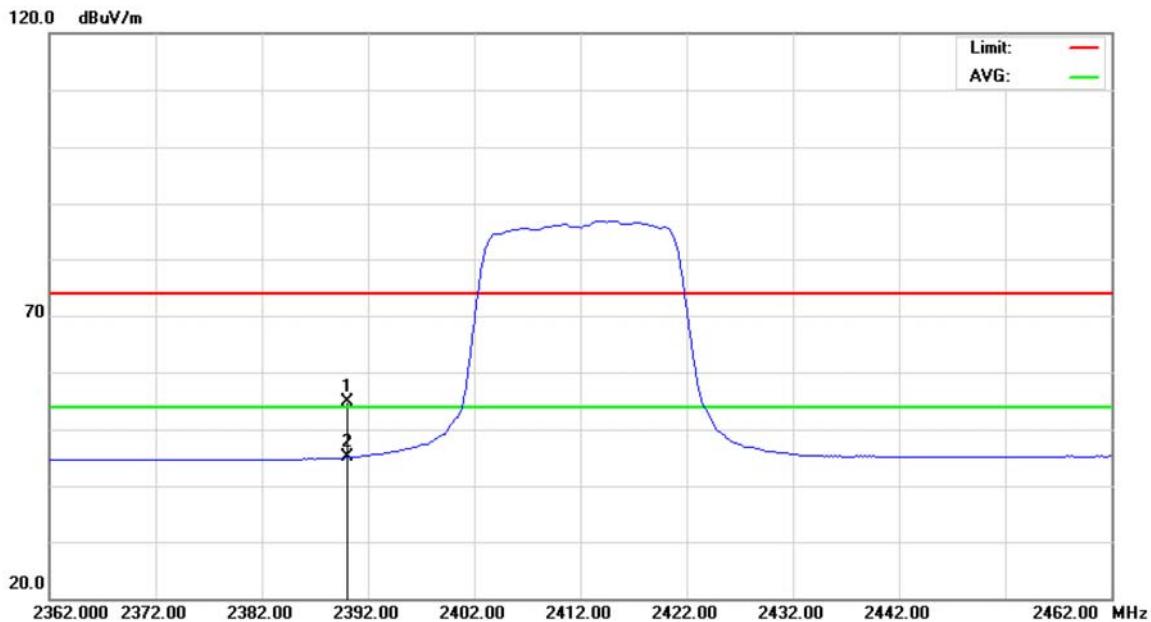


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2483.500	20.46	33.64	54.10	74.00	-19.90	peak	
2	*	2483.500	11.54	33.64	45.18	54.00	-8.82	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

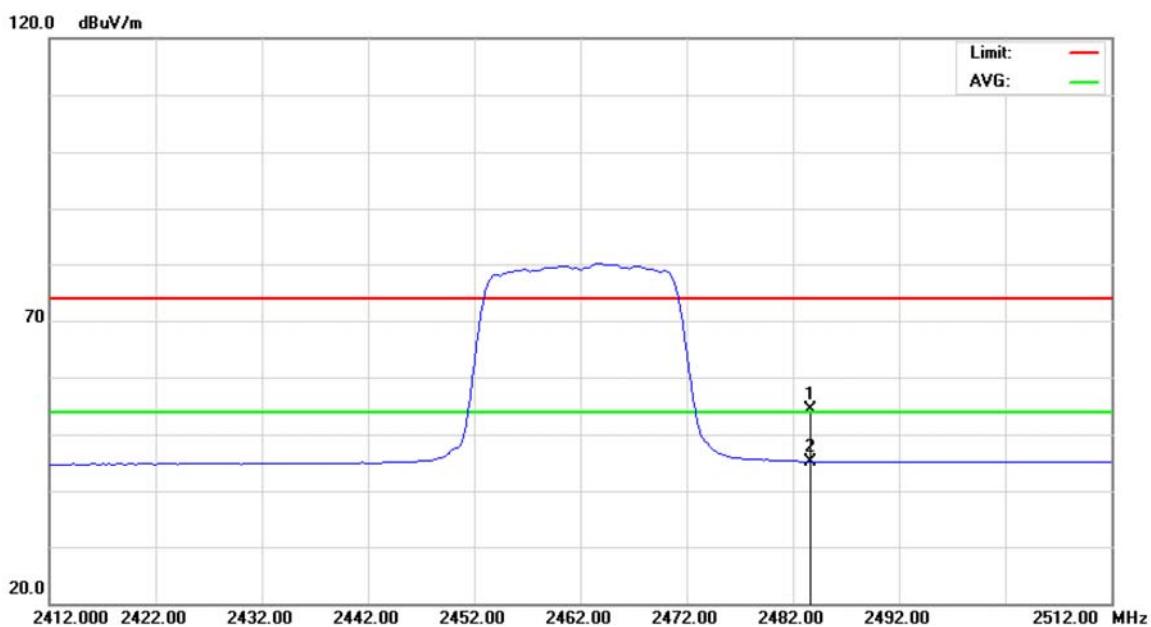


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	21.59	33.23	54.82	74.00	-19.18	peak	
2	*	2390.000	11.78	33.23	45.01	54.00	-8.99	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal

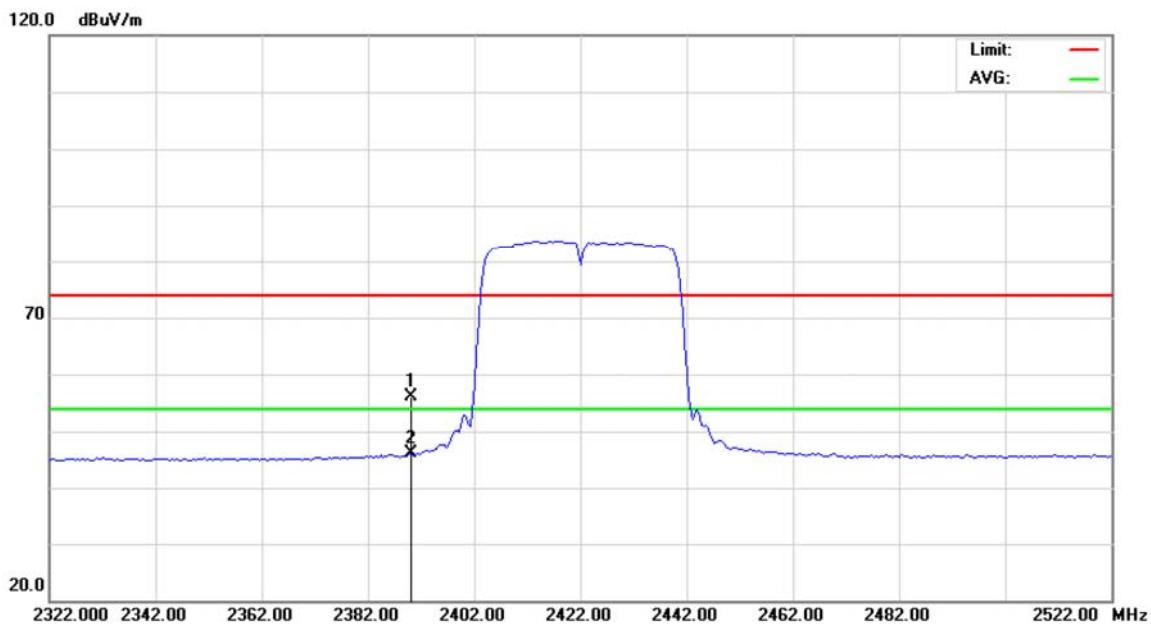


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2483.500	20.66	33.64	54.30	74.00	-19.70	peak	
2	*	2483.500	11.57	33.64	45.21	54.00	-8.79	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

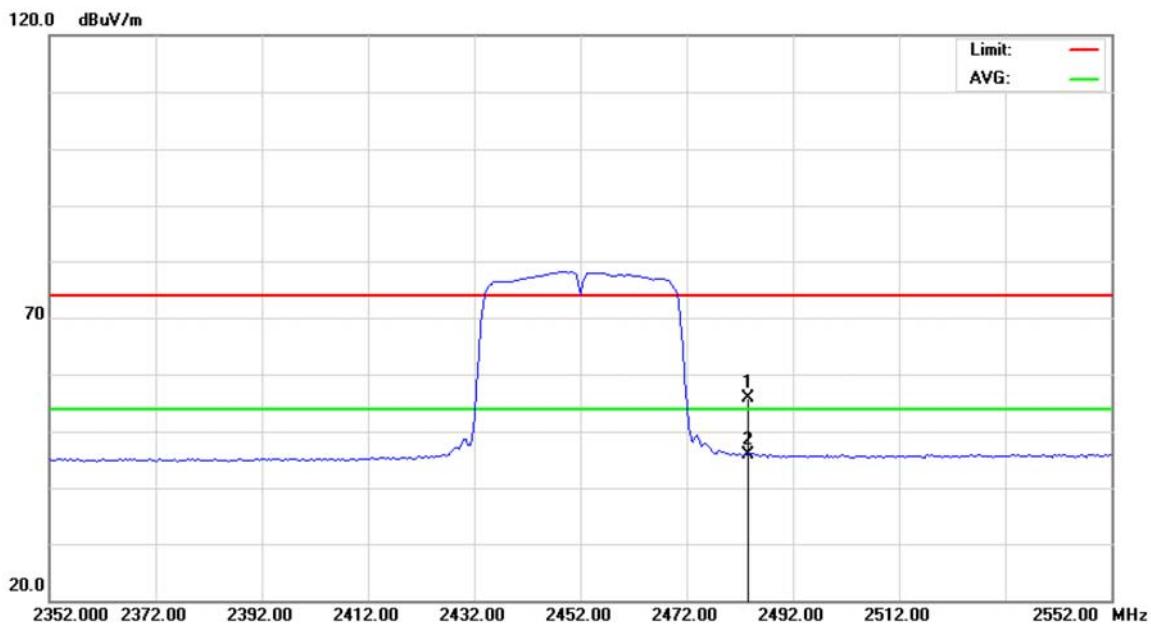


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	22.87	33.23	56.10	74.00	-17.90	peak	
2	*	2390.000	12.87	33.23	46.10	54.00	-7.90	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

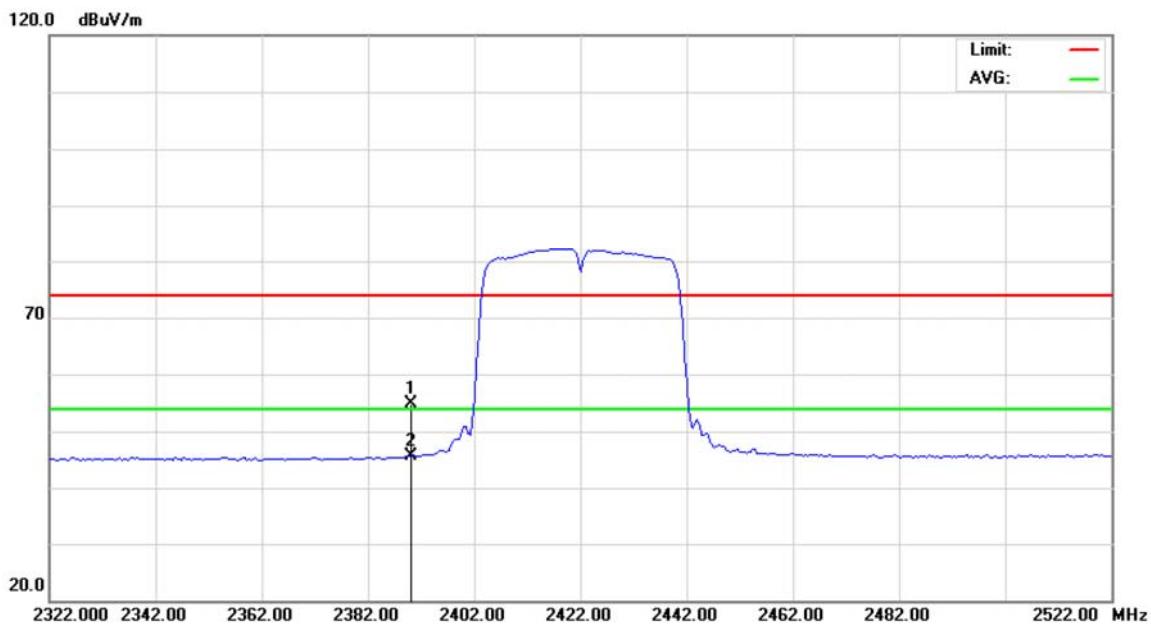


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2483.500	22.13	33.64	55.77	74.00	-18.23	peak	
2	*	2483.500	12.21	33.64	45.85	54.00	-8.15	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

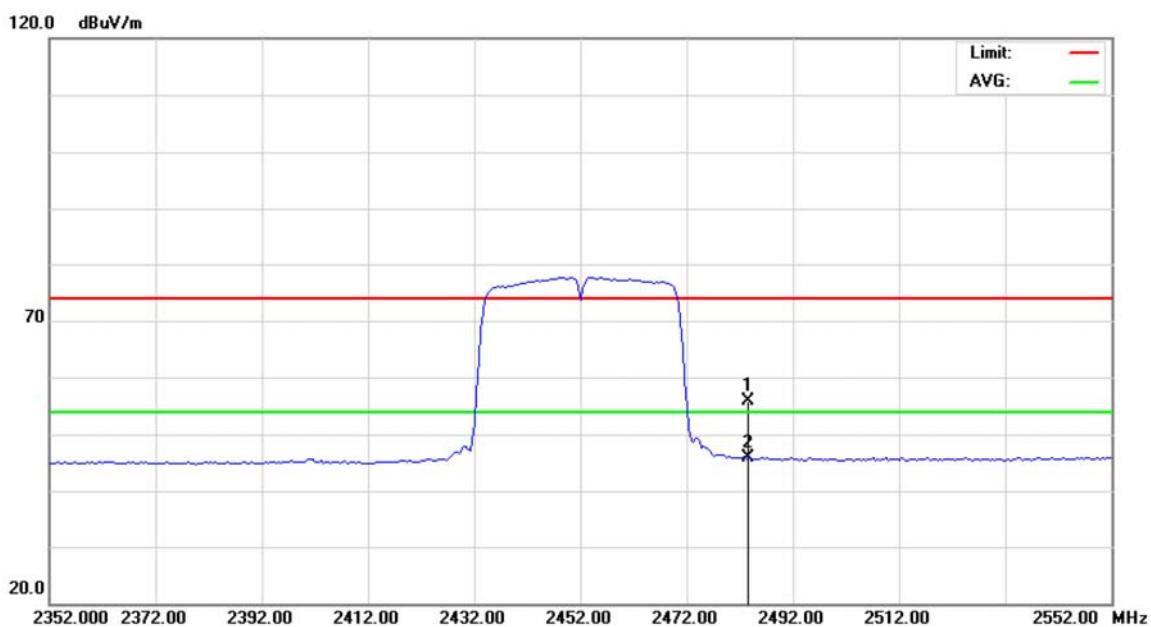


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	21.53	33.23	54.76	74.00	-19.24	peak	
2	*	2390.000	12.35	33.23	45.58	54.00	-8.42	AVG	



E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2483.500	22.28	33.64	55.92	74.00	-18.08	peak	
2	*	2483.500	12.13	33.64	45.77	54.00	-8.23	AVG	



9 POWER SPECTRAL DENSITY

9.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Power Spectral Density	2400-2483.5	8 dBm (in any 3 kHz)

9.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 01, 2013

NOTE: **N/A:** denotes No Model Name, No Serial No. or No Calibration specified.

9.3 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW=3 kHz, VBW=30 kHz, Sweep time = 500s.

9.4 TEST SETUP LAYOUT



9.5 DEVIATION FROM TEST STANDARD

No deviation

9.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

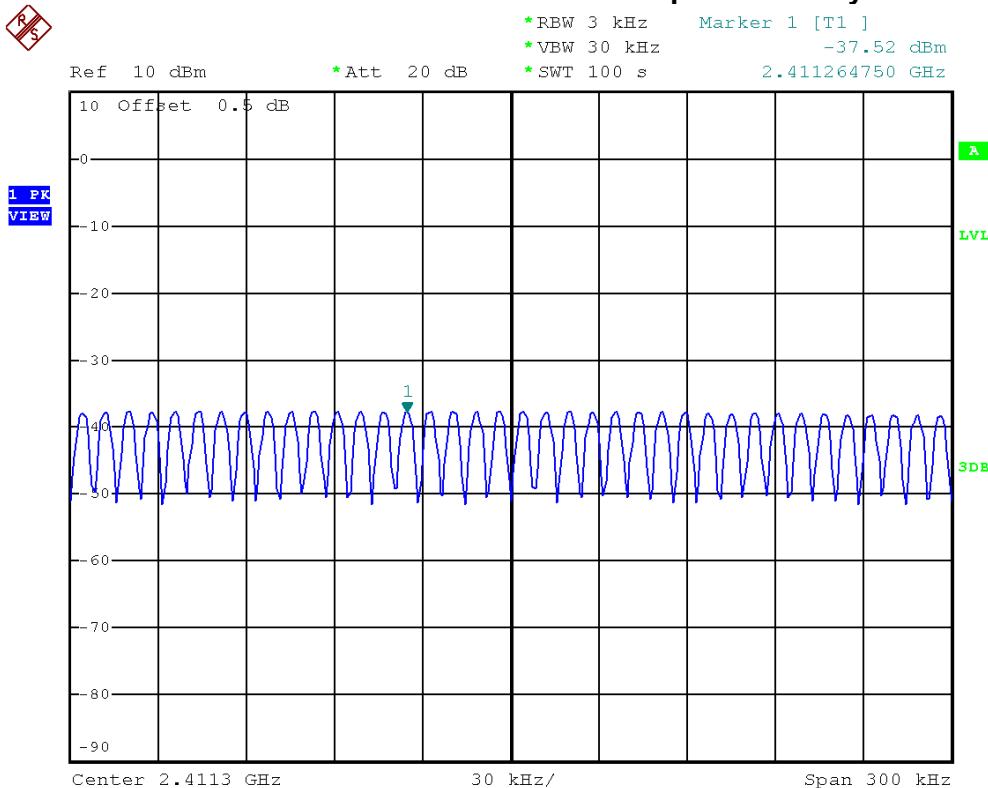


9.7 TEST RESULTS - 2400-2483.5 MHZ

E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz, 2437 MHz, 2462 MHz		

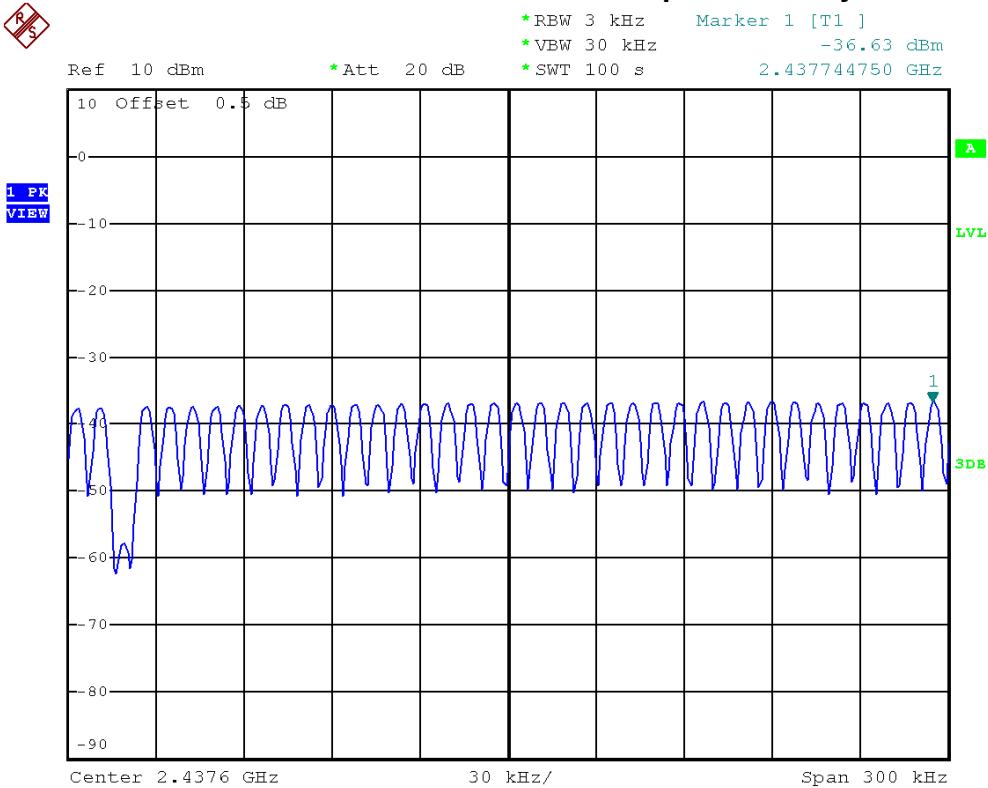
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-37.52	8	PASS
2437 MHz	-36.63	8	PASS
2462 MHz	-35.07	8	PASS

IEEE 802.11b/2412 MHz/Power Sepctral Density

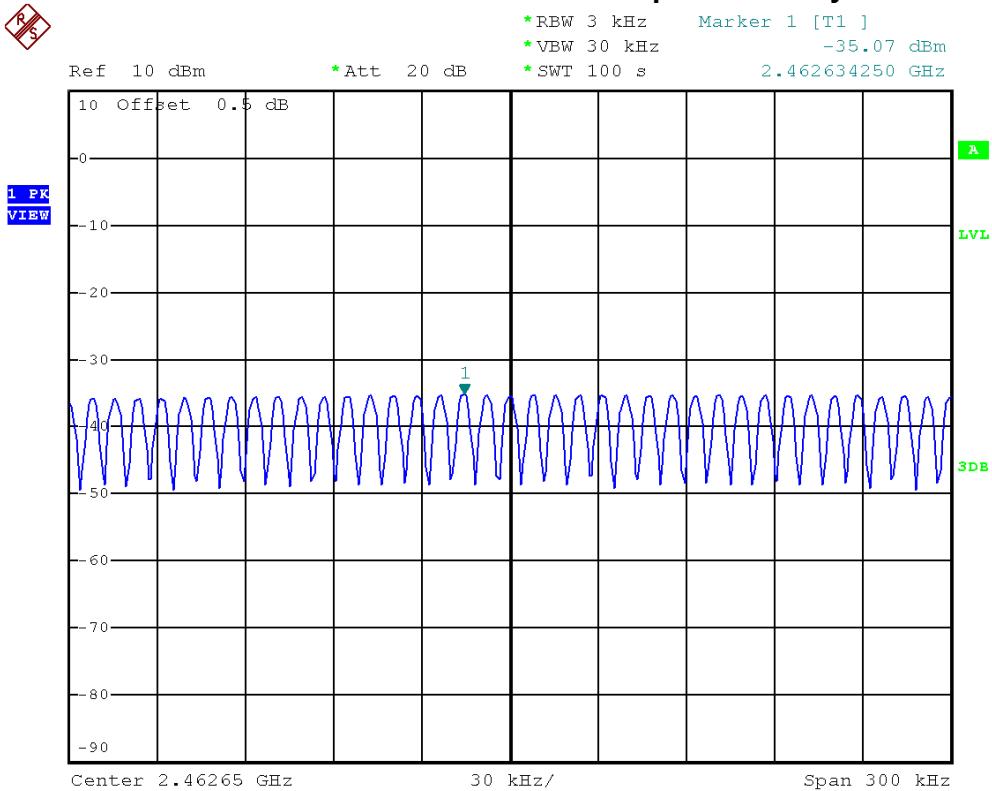




IEEE 802.11b/2437 MHz/Power Sepctral Density



IEEE 802.11b/2462 MHz/Power Sepctral Density

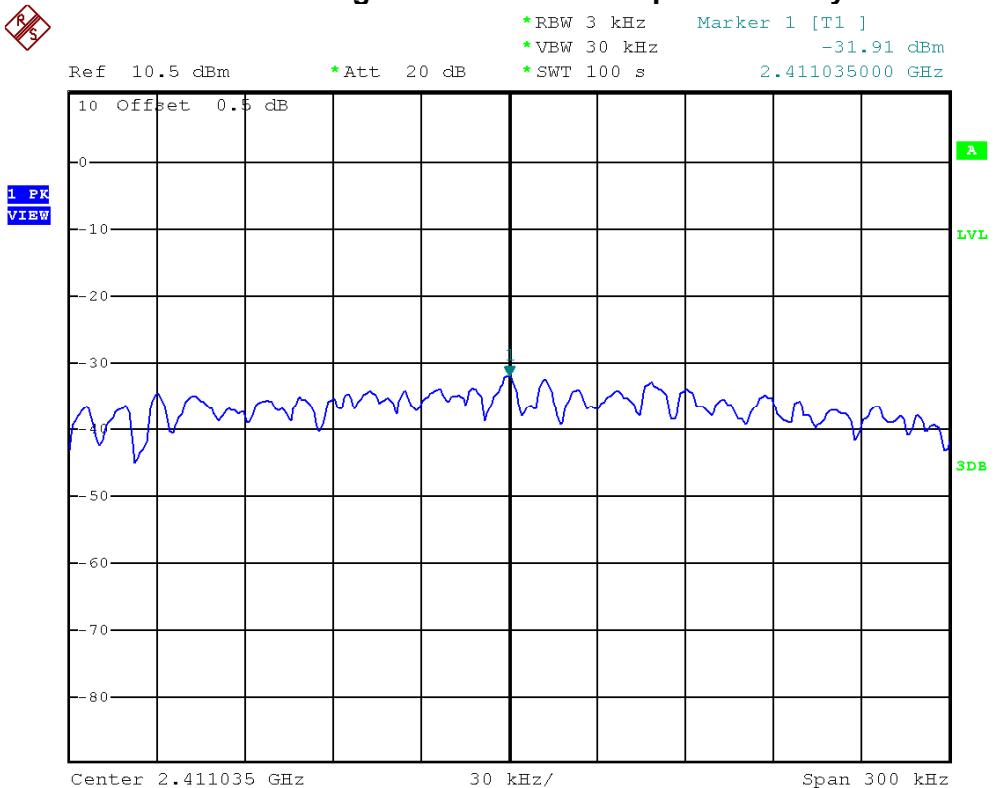




E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz, 2437 MHz, 2462 MHz		

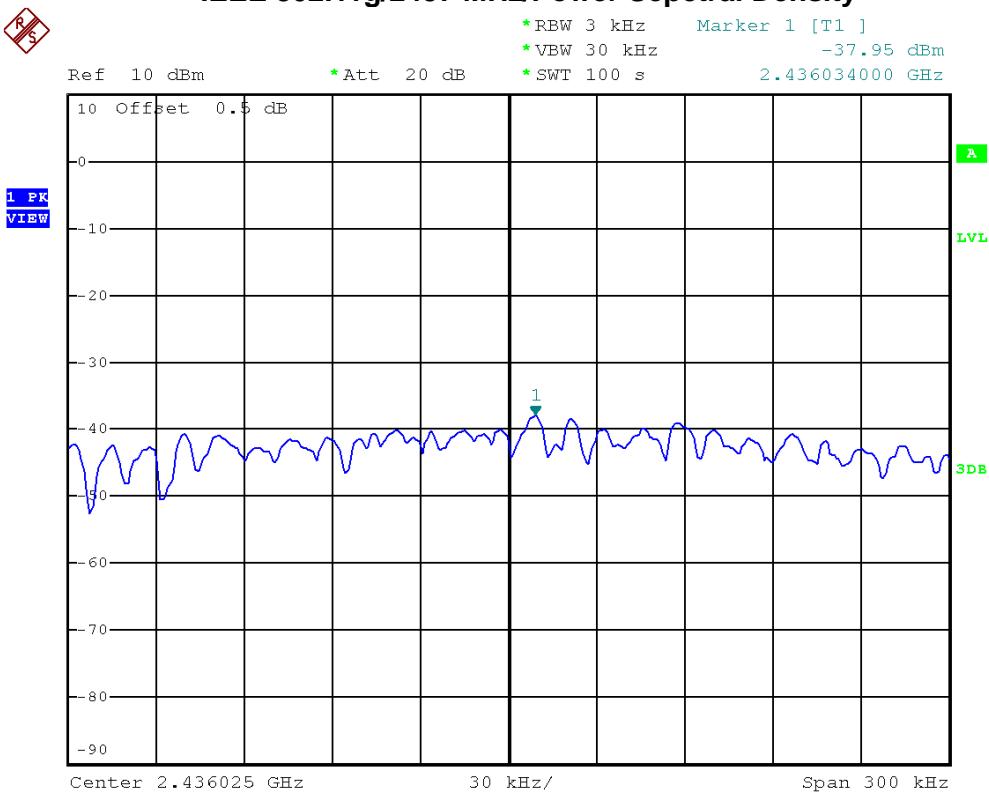
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-31.91	8	PASS
2437 MHz	-37.95	8	PASS
2462 MHz	-36.57	8	PASS

IEEE 802.11g/2412 MHz/Power Sepctral Density

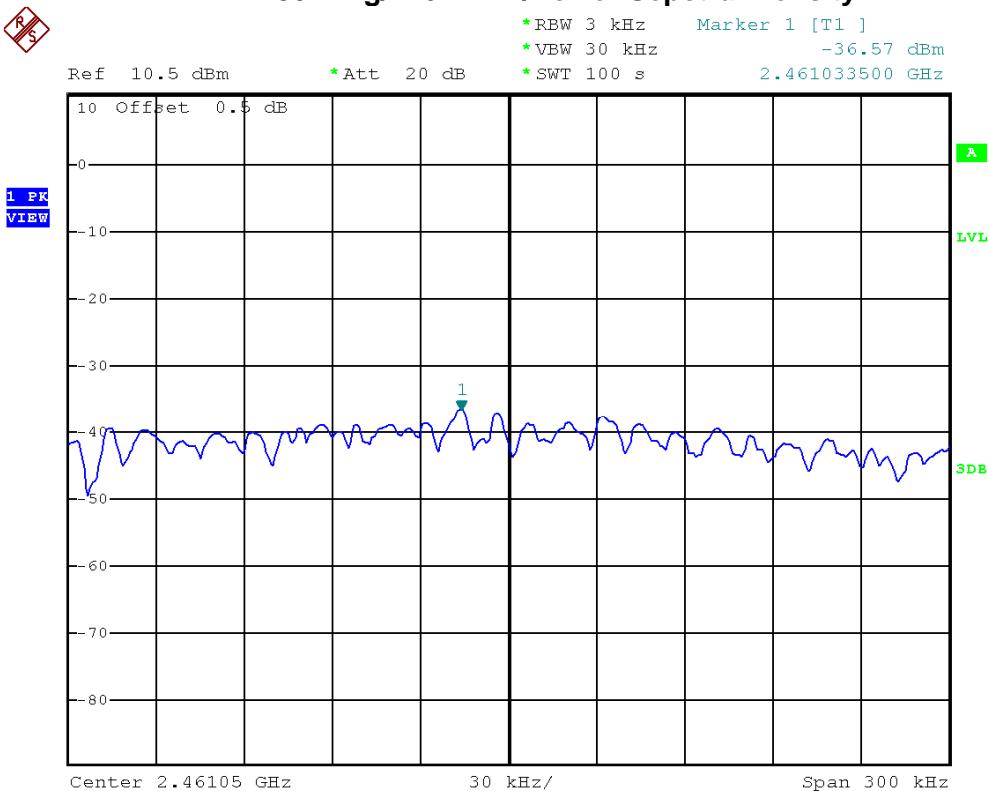




IEEE 802.11g/2437 MHz/Power Sepctral Density



IEEE 802.11g/2462 MHz/Power Sepctral Density

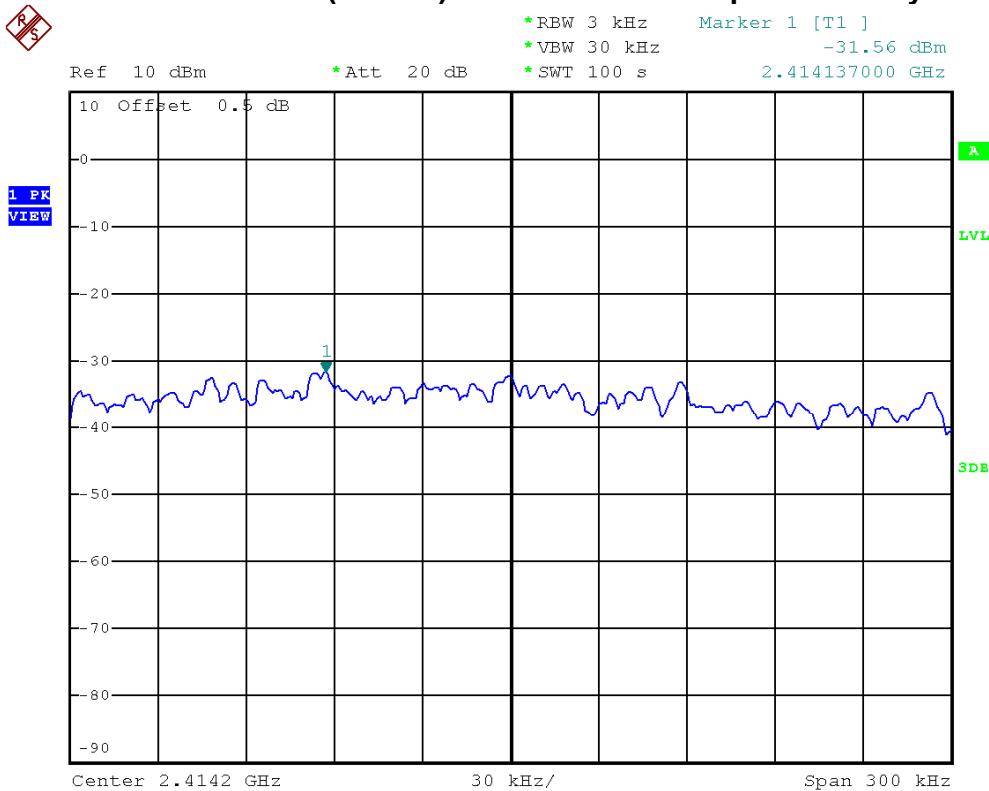




E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz, 2437 MHz, 2462 MHz		

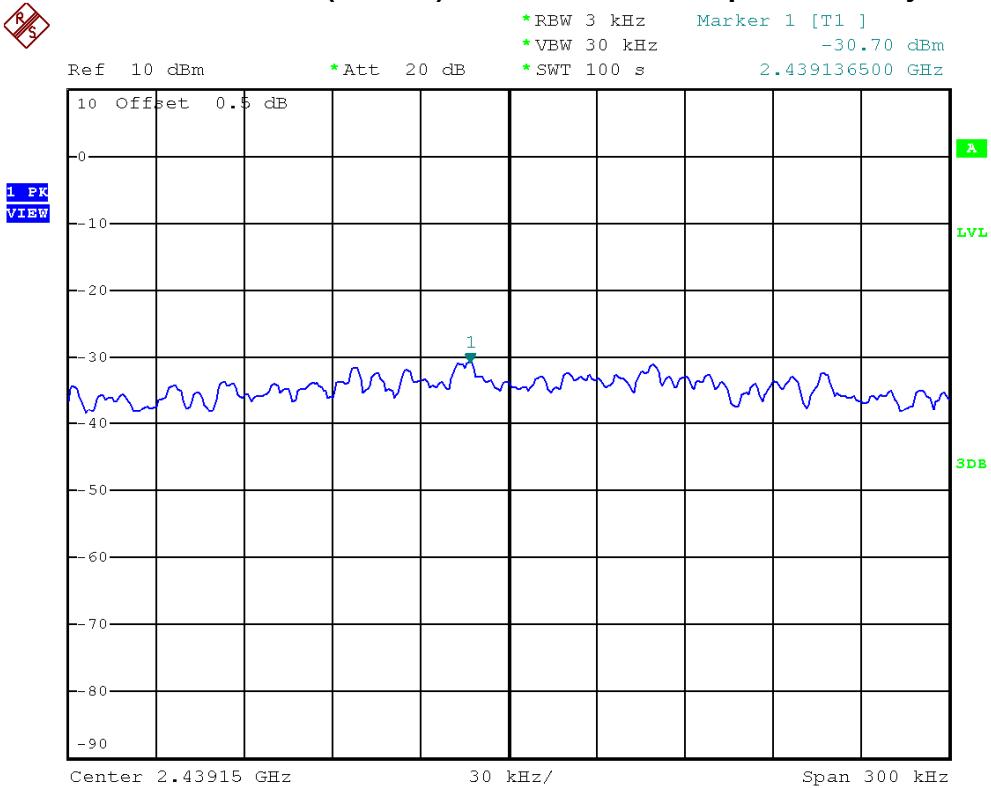
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-31.56	8	PASS
2437 MHz	-30.70	8	PASS
2462 MHz	-35.93	8	PASS

IEEE 802.11n (20 MHz)/2412 MHz/Power Sepctral Density

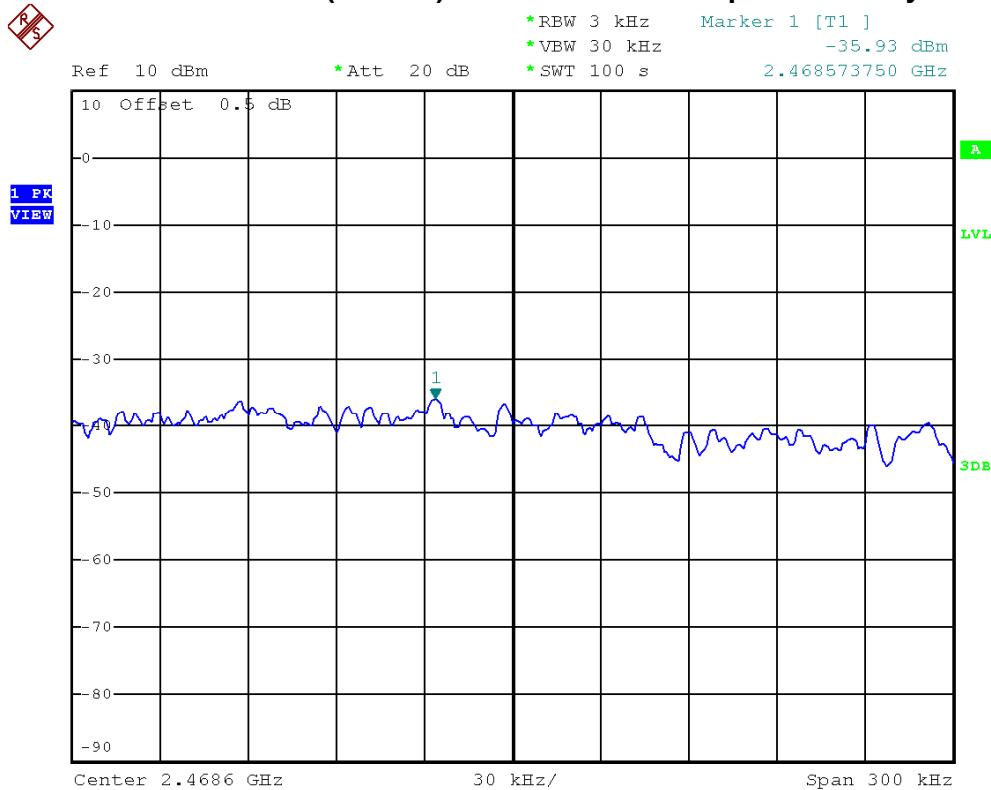




IEEE 802.11n (20 MHz)/2437 MHz/Power Sepctral Density



IEEE 802.11n (20 MHz)/2462 MHz/Power Sepctral Density

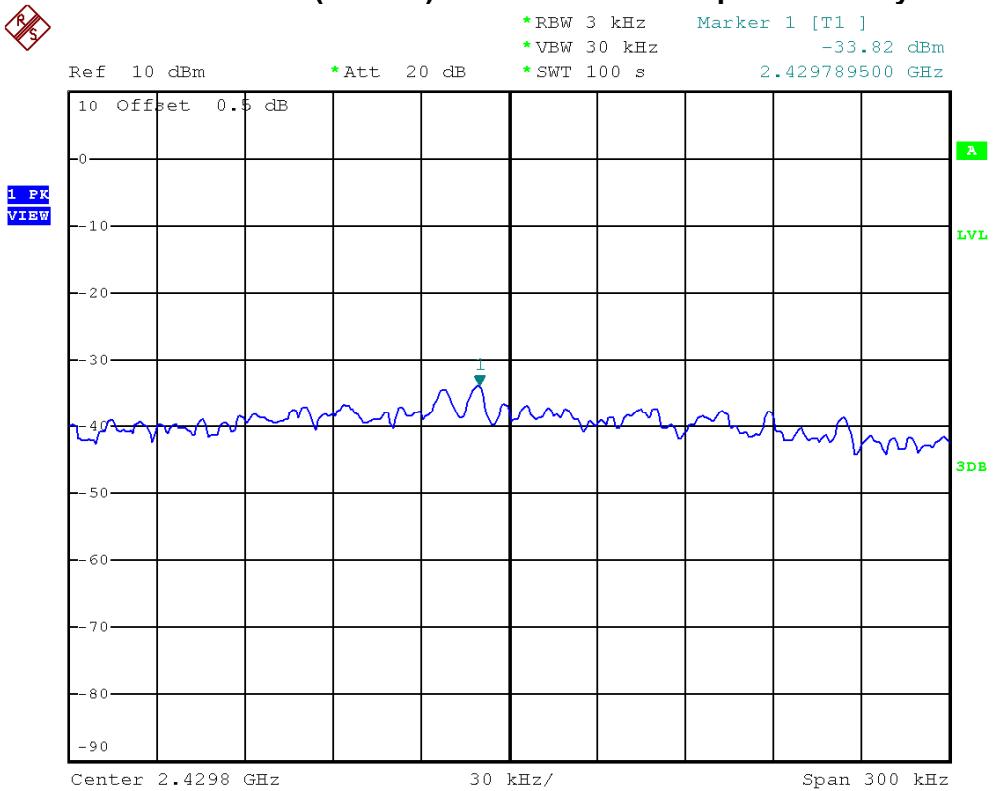




E.U.T	WiFi Microscope	Model Name	DMC-2313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz, 2437 MHz, 2452 MHz		

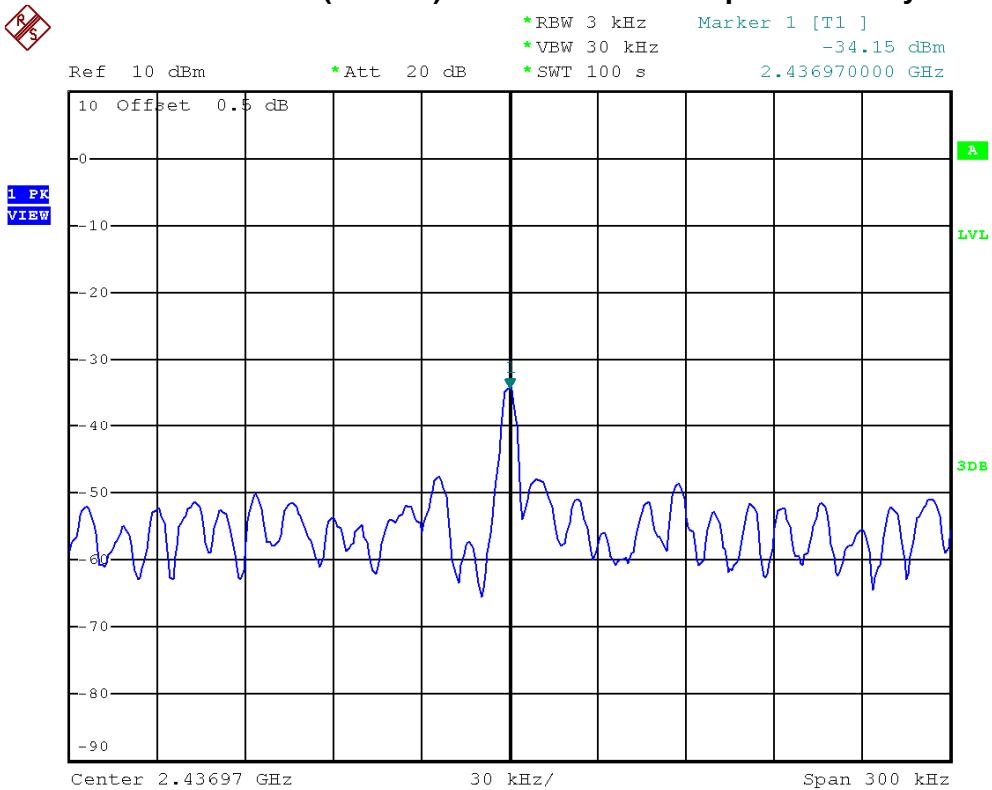
Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-33.82	8	PASS
2437 MHz	-34.15	8	PASS
2452 MHz	-35.37	8	PASS

IEEE 802.11n (40 MHz)/2422 MHz/Power Sepctral Density

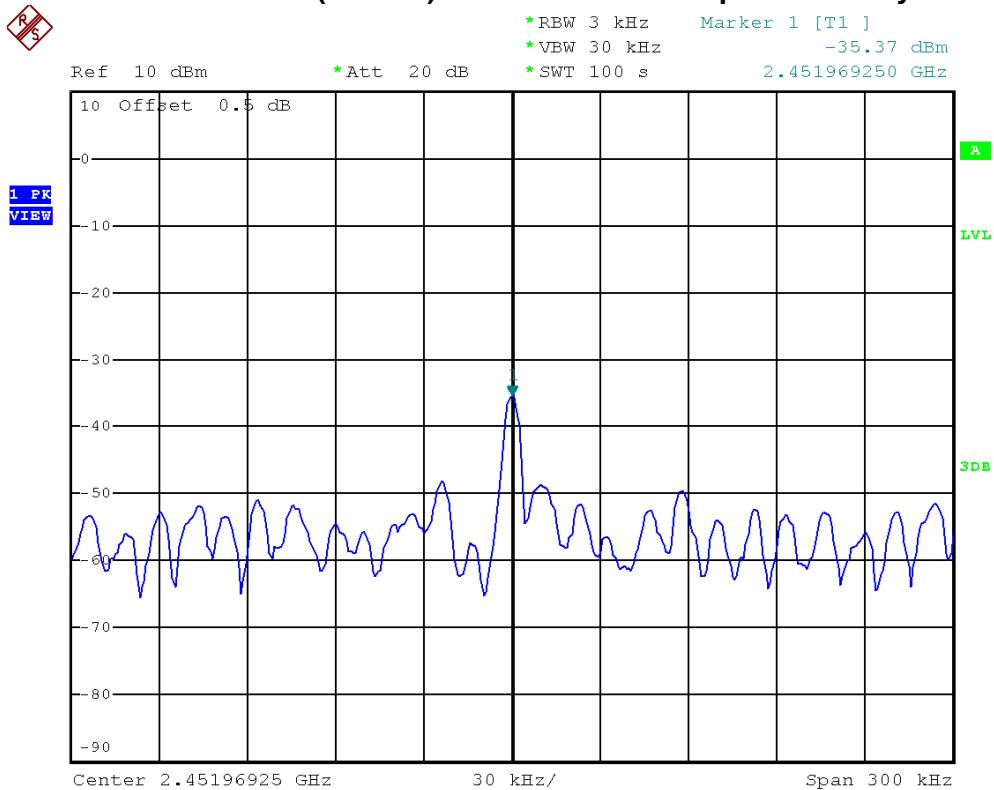




IEEE 802.11n (40 MHz)/2437 MHz/Power Sepctral Density



IEEE 802.11n (40 MHz)/2452 MHz/Power Sepctral Density





10 RF EXPOSURE COMPLIANCE

10.1 LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

NOTE: f = frequency in MHz ; *Plane-wave equivalent power density.

10.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Feb. 20,2013
2	Power Meter Sensor	Anritsu	MA2411B	1126001	Feb. 20,2013

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

10.3 MPE CALCULATION METHOD

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained



10.4 TEST SETUP LAYOUT



10.5 DEVIATION FROM TEST STANDARD

No deviation

10.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

10.7 TEST RESULTS - 2400-2483.5 MHZ

The power is so low so there is no need for RF calculations.