FCC Radio Test Report

FCC ID: QT72012THU0001

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

Issued Date	: Dec. 25, 2012
Project No.	: 1211C174
Equipment	: WIFI-DISK With Power Bank
Model Name	: THU-WIFI-S250UN; STO-WIFI-S250UN; CUR-WIFI-S250UN; CUR-WIFI-S250UN-NC
Applicant	: Power7 Technology(DongGuan) Co., Ltd.
Address	: No.28 Binjiang Blvd Shishuikou Village, Qiaotou Town, Dongguan, China
Manufacturer	: Power7 Technology(DongGuan) Co., Ltd.
Address	: No.28 Binjiang Blvd Shishuikou Village, Qiaotou Town, Dongguan, China

Tested by:
Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Nov. 28, 2012
Date of Test:
Nov. 28, 2012~ Dec. 24, 2012

Testing Engineer : David Mao
(David Mao)

Technical Manager : Leo Hung
(Leo Hung)

Authorized Signatory : Steven Lu
(Steven Lu)

Neutron Engineering Inc.

No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.
TEL : (0769) 8318-3000 FAX : (0769) 8319-6000

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.**

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **Neutron-self**, extracts from the test report shall not be reproduced except in full with **Neutron**'s authorized written approval.

Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Table of Contents Page

1 . CERTIFICATION 5
2 . SUMMARY OF TEST RESULTS 6
2.1 TEST FACILITY 7
2.2 MEASUREMENT UNCERTAINTY 7
3 . GENERAL INFORMATION 8
3.1 GENERAL DESCRIPTION OF EUT 8
3.2 DESCRIPTION OF TEST MODES 10
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING 12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 13
3.5 DESCRIPTION OF SUPPORT UNITS 15
4 . EMC EMISSION TEST 16
4.1 CONDUCTED EMISSION MEASUREMENT 16
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS 16
4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING 16
4.1.3 TEST PROCEDURE 17
4.1.4 DEVIATION FROM TEST STANDARD 17
4.1.5 TEST SETUP 17
4.1.6 EUT OPERATING CONDITIONS 17
4.1.7 TEST RESULTS 18
4.2 RADIATED EMISSION MEASUREMENT 35
4.2.1 RADIATED EMISSION LIMITS 35
4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING 36
4.2.3 TEST PROCEDURE 37
4.2.4 DEVIATION FROM TEST STANDARD 37
4.2.5 TEST SETUP 38
4.2.6 EUT OPERATING CONDITIONS 39
4.2.8 TEST RESULTS-BETWEEN 30MHZ AND 1000MHZ 40
4.2.7 TEST RESULTS (ABOVE 1000 MHZ) 43
5 . BANDWIDTH TEST 91
5.1 APPLIED PROCEDURES / LIMIT 91
5.1.1 MEASUREMENT INSTRUMENTS LIST 91
5.1.2 TEST PROCEDURE 91
5.1.3 DEVIATION FROM STANDARD 91
5.1.4 TEST SETUP 91
5.1.5 EUT OPERATION CONDITIONS 91
5.1.6 TEST RESULTS 92
6 . MAXIMUM OUTPUT POWER TEST 100

Table of Contents Page

6.1 APPLIED PROCEDURES / LIMIT 100
6.1.1 MEASUREMENT INSTRUMENTS LIST 100
6.1.2 TEST PROCEDURE 100
6.1.3 DEVIATION FROM STANDARD 100
6.1.4 TEST SETUP 100
6.1.5 EUT OPERATION CONDITIONS 100
6.1.6 TEST RESULTS 101

7 . ANTENNA CONDUCTED SPURIOUS EMISSION 103

7.1 APPLIED PROCEDURES / LIMIT 103
7.1.1 MEASUREMENT INSTRUMENTS LIST 103
7.1.2 TEST PROCEDURE 103
7.1.3 DEVIATION FROM STANDARD 103
7.1.4 TEST SETUP 103
7.1.5 EUT OPERATION CONDITIONS 103
7.1.6 TEST RESULTS 104

8 . POWER SPECTRAL DENSITY TEST 124

8.1 APPLIED PROCEDURES / LIMIT 124
8.1.1 MEASUREMENT INSTRUMENTS LIST 124
8.1.2 TEST PROCEDURE 124
8.1.3 DEVIATION FROM STANDARD 124
8.1.4 TEST SETUP 124
8.1.5 EUT OPERATION CONDITIONS 124
8.1.6 TEST RESULTS 125

9 . EUT TEST PHOTO 133

1. CERTIFICATION

Equipment	:	WIFI-DISK With Power Bank
Brand Name	:	POWER7
Model Name	:	THU-WIFI-S250UN; STO-WIFI-S250UN; CUR-WIFI-S250UN; CUR-WIFI-S250UN-NC
Applicant	:	POWER 7 TECHNOLOGY（Dongguan）Co.,Ltd.
Factory	:	POWER 7 TECHNOLOGY（Dongguan）Co.,Ltd.
Address	:	No.28 Binjiang Street, Lianhu Rd. ShiShuiKou Village, Qiaotou Town, Dongguan City, GuangDong Province P.R.China
Date of Test	:	Nov. 28, 2012~ Dec. 24, 2012
Test Item	:	ENGINEERING SAMPLE
Standards	:	FCC Part15, Subpart C(15.247) / 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-1-1211C174) 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

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.209/15.205	Radiated Spurious Emission	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

(2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v02 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-CB03/DG-C02** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792
Neutron's test firm number is 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement y ± 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 %。

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U，(dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U，(dB)	NOTE
DG-CB03	CISPR	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>WIFI-DISK With Power Bank</td></tr>
<tr><td>Brand Name</td><td>POWER7</td></tr>
<tr><td>Model Name</td><td>THU-WIFI-S250UN; STO-WIFI-S250UN; CUR-WIFI-S250UN; CUR-WIFI-S250UN-NC</td></tr>
<tr><td>Model Difference</td><td>1) CUR-WIFI-S250UN-NC less than THU-WIFI-S250UN, STO-WIFI-S250UN and CUR-WIFI-S250UN a USB 2.0 charging port.
2) The appearance is different, the rest are the same.</td></tr>
<tr><td>Product Description</td><td>The EUT is a WIFI-DISK With Power Bank.

<table>
<tr><td>Operation Frequency</td><td>2412~2462 MHz</td></tr>
<tr><td>Modulation Technology</td><td>802.11b:DSSS
802.11g:OFDM
802.11n:OFDM</td></tr>
<tr><td>Bit Rate of Transmitter</td><td>802.11b:11/5.5/2/1 Mbps
802.11g:54/48/36/24/18/12/9/6 Mbps
Draft 802.11n:up to 150Mbps</td></tr>
<tr><td>Number of Channel</td><td>11 CH, Please see note 2.(Page 9)</td></tr>
<tr><td>Antenna Designation</td><td rowspan="2">Please see note 3.(Page 9)</td></tr>
<tr><td>Antenna Gain(Peak)</td></tr>
<tr><td>Output Power</td><td>802.11b: 16.84 dBm
802.11g: 20.50 dBm
802.11n(20MHz): 20.33 dBm
802.11n(40MHz):19.39 dBm</td></tr>
</table>

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>
<tr><td>Power Source</td><td>#1 Supplied from PC USB port.
#2 Supplied from AC adapter.
Adapter Brand/Model: Ktec / KSAPK0110500210FU
#3 Supplied from Lithium Battery.
Battery Model: H924858
Battery Model: 904764P</td></tr>
<tr><td>Power Rating</td><td>#1 I/P AC 120V/60Hz O/P DC 5V
#2 I/P AC 100-240V~50/60Hz 0.5A O/P DC 5.0V 2.1A
#3 DC 3.7V 3000mAh</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
</table>

Note:

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

2. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz)
CH 03 – CH 09 for 802.11n(40MHz)

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	ECS	ECM A C BX 321610 S C	Chip	N/A	2.50	

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.

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	USB 2.0 READ/WRITE
Mode 6	USB 3.0 READ/WRITE
Mode 7	WIFI READ/WRITE (PC)
Mode 8	LAN READ/WRITE (PC)
Mode 9	USB OUT (PC)
Mode 10	WIFI READ/WRITE (Adapter)
Mode 11	LAN READ/WRITE (Adapter)
Mode 12	USB OUT (Adapter)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 5	USB 2.0 READ/WRITE
Mode 6	USB 3.0 READ/WRITE
Mode 7	WIFI READ/WRITE (PC)
Mode 8	LAN READ/WRITE (PC)
Mode 9	USB OUT (PC)
Mode 10	WIFI READ/WRITE (Adapter)
Mode 11	LAN READ/WRITE (Adapter)
Mode 12	USB OUT (Adapter)

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
802.11n HT40 mode : BPSK (13.5Mbps)
For radiated emission tests, the highest output powers were set for final test.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

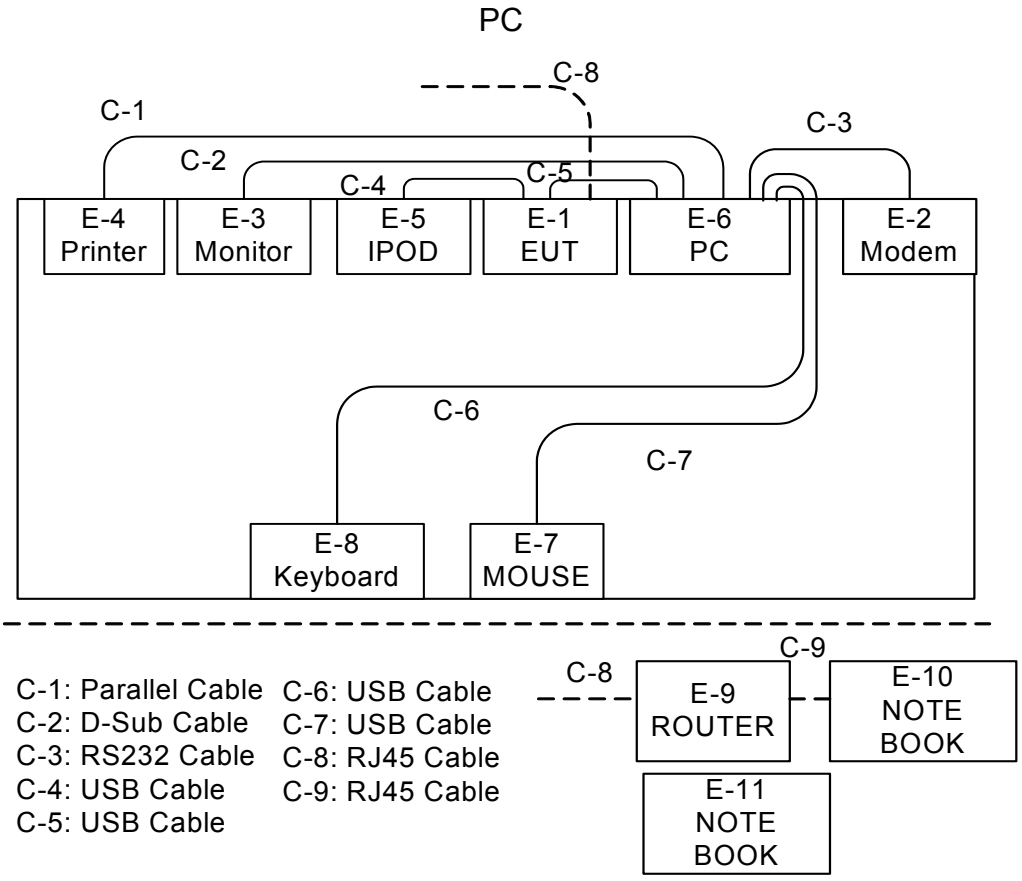
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

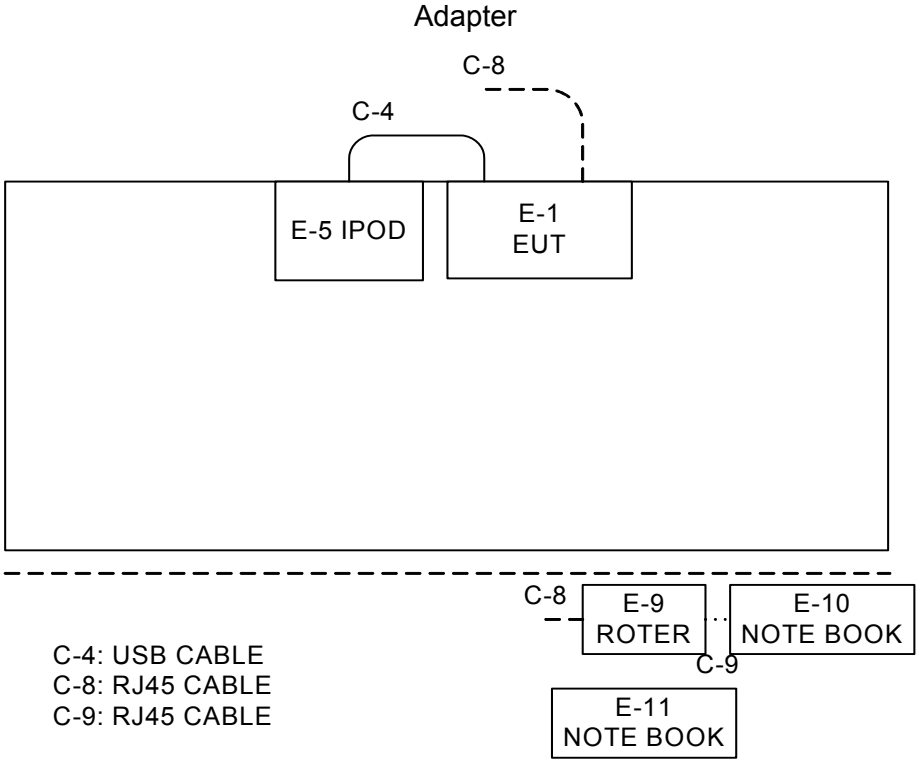
Test software version	RT5350QA.exe		
Frequency	**2412 MHz**	**2442 MHz**	**2462 MHz**
IEEE 802.11b DSSS	11	12	14
IEEE 802.11g OFDM	19	1B	1C

Test software version	RT5350QA.exe		
Frequency (MHz)	**2412 MHz**	**2442 MHz**	**2462 MHz**
IEEE 802.11n (20MHz)	19	1A	1C
Frequency (MHz)	**2422 MHz**	**2437 MHz**	**2452 MHz**
IEEE 802.11n (40MHz)	14	16	17

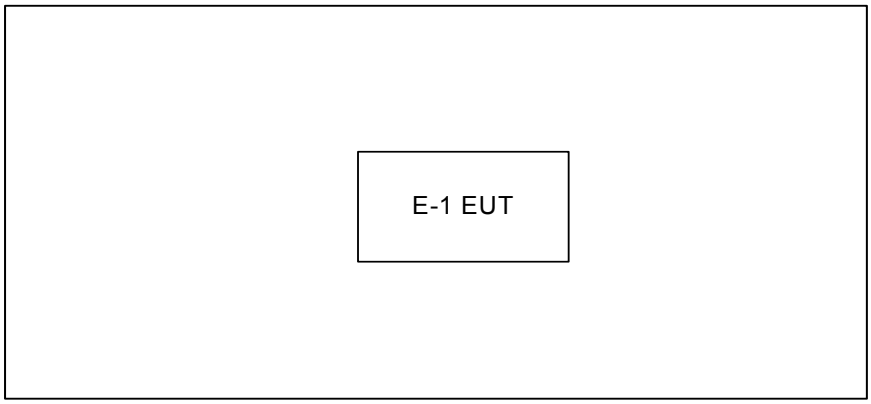
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Mode:





Radiated TX Mode:



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-DISK With Power Bank	POWER7	THU-WIFI-S250UN	QT72012THU0001	N/A	EUT
E-2	Modem	ACEEX	DM-1414V	IFAXDm1414	0603002131	
E-3	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-64180-6AG-1WNS	
E-4	Printer	SII	DPU-414	DOC	3018507 B	
E-5	iPod nano(8G)	Apple	A1320	DOC	YM945ZGJ72A	
E-6	PC	Dell 745	DCSM	DOC	G7K832X	
E-7	USB Mouse	Dell	MO56UC	DOC	G0R000XN	
E-8	USB Keyboard	DELL	SK-8115	DOC	MY-0DJ325-71619-77N-1526	
E-9	Router	Net.Core	NW705S	DOC	N/A	
E-10	Notebook PC	DELL	D600	DOC	7T390 A03	
E-11	Notebook PC	DELL	PP18L	DOC	PF329 A01	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5m	
C-2	YES	YES	1.5m	
C-3	YES	NO	0.9m	
C-4	YES	NO	0.8m	
C-5	YES	NO	0.5m	
C-6	YES	YES	1.8m	
C-7	YES	NO	1.8m	
C-8	NO	YES	4.8m	
C-9	NO	NO	1.2m	

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in m in『Length』column.

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

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

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	LISN	EMCO	3816/2	00052765	May.26.2012	May.04.2013
2	LISN	R&S	ENV216	100087	May.26.2012	May.04.2013
3	Test Cable	N/A	C_17	N/A	Mar.18.2012	Mar.28.2013
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	May.26.2012	May.04.2013
5	50Ω Terminator	SHX	TF2-3G-A	08122902	May.26.2012	May.04.2013

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of Equipment List is One Year.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

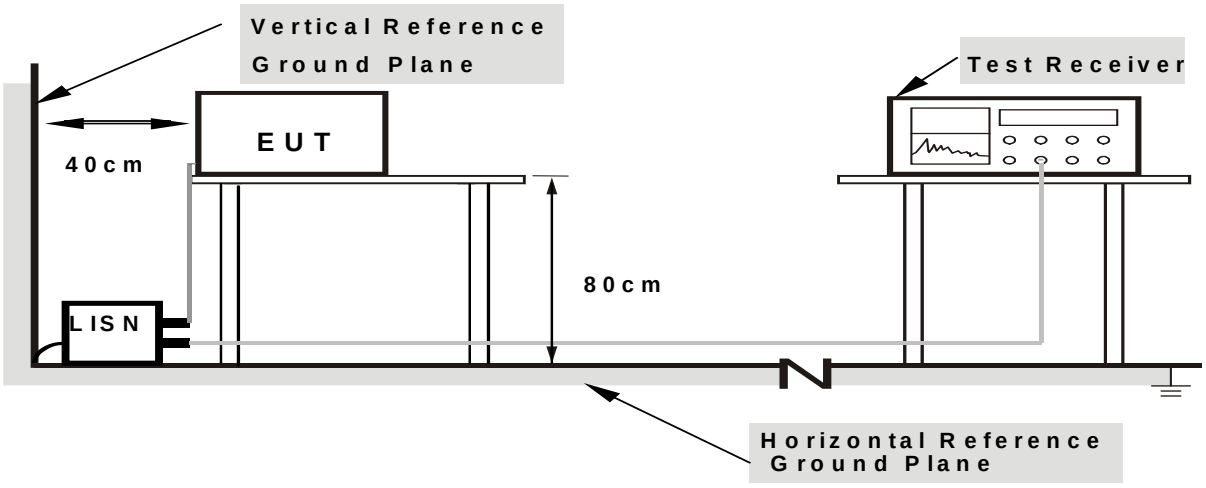
4.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.6 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.
The EUT was programmed to be in continuously transmitting mode.

4.1.7 TEST RESULTS

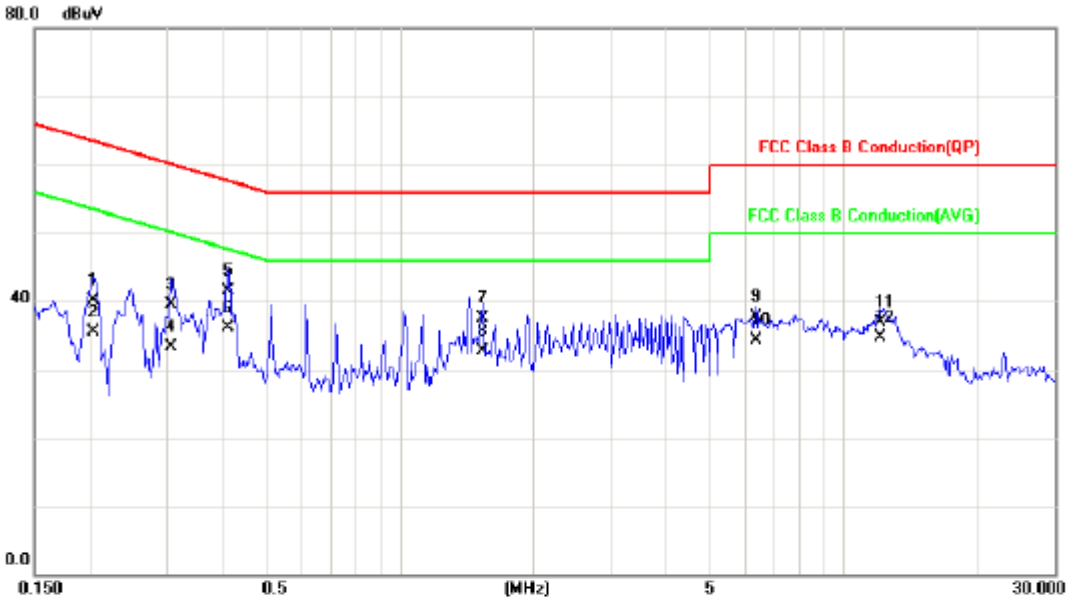
Remark

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.3 sec./MHz.

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform.In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

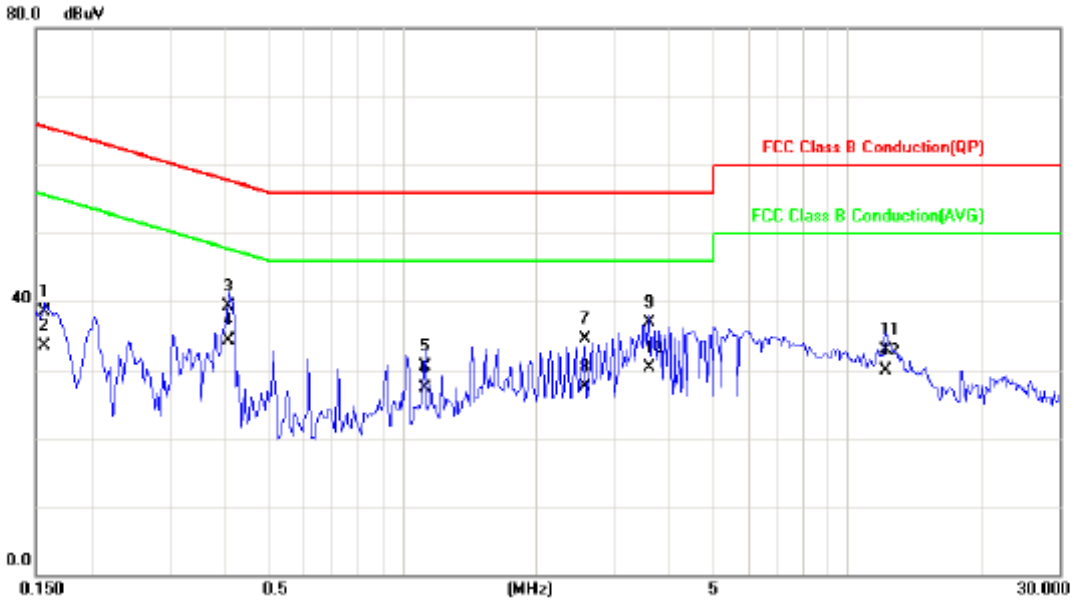
(3) Peak value recorded in table if the margin from QP Limit is larger than 2dB, otherwise, QP value is recorded.

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Line
Test Mode :	USB 2.0 READ/WRITE		



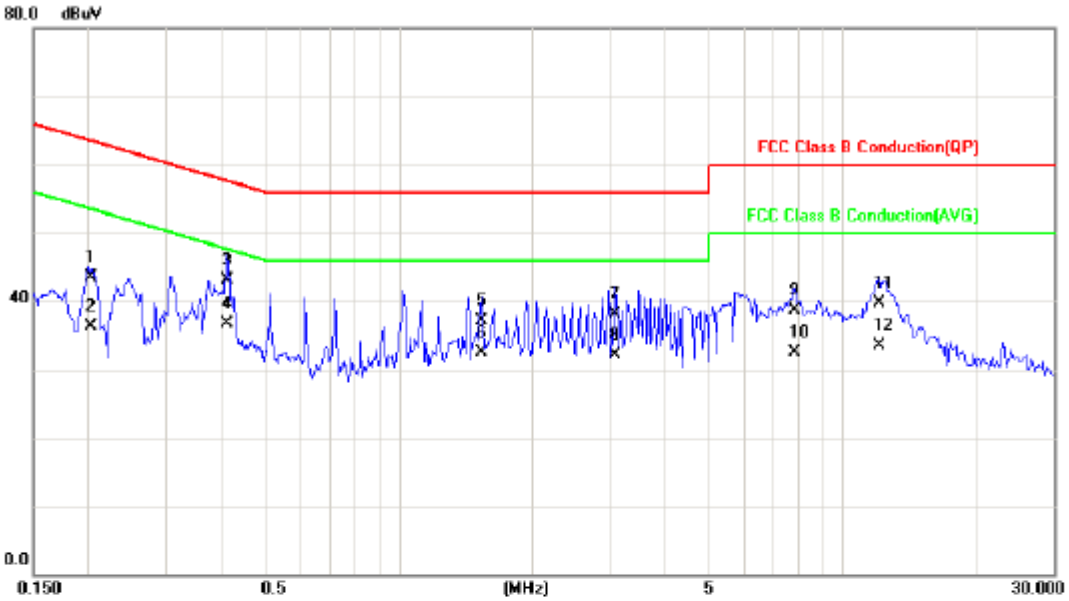
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2046	30.35	9.85	40.20	63.42	-23.22	QP	
2		0.2046	25.68	9.85	35.53	53.42	-17.89	AVG	
3		0.3062	29.65	9.84	39.49	60.07	-20.58	QP	
4		0.3062	23.54	9.84	33.38	50.07	-16.69	AVG	
5		0.4117	31.65	9.84	41.49	57.61	-16.12	QP	
6	*	0.4117	26.22	9.84	36.06	47.61	-11.55	AVG	
7		1.5366	27.68	9.86	37.54	56.00	-18.46	QP	
8		1.5367	22.87	9.86	32.73	46.00	-13.27	AVG	
9		6.3554	27.68	9.98	37.66	60.00	-22.34	QP	
10		6.3554	24.30	9.98	34.28	50.00	-15.72	AVG	
11		12.1240	26.85	10.13	36.98	60.00	-23.02	QP	
12		12.1240	24.57	10.13	34.70	50.00	-15.30	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Neutral
Test Mode :	USB 2.0 READ/WRITE		



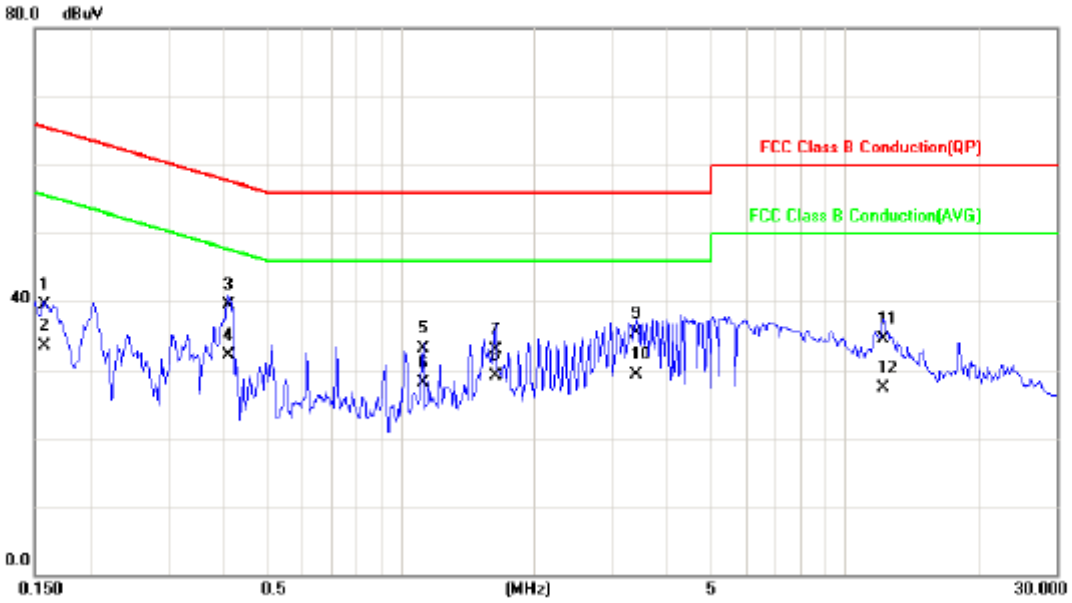
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1578	28.68	9.86	38.54	65.58	-27.04	QP	
2		0.1578	23.69	9.86	33.55	55.58	-22.03	AVG	
3		0.4078	29.55	9.84	39.39	57.69	-18.30	QP	
4	*	0.4078	24.38	9.84	34.22	47.69	-13.47	AVG	
5		1.1265	20.64	9.87	30.51	56.00	-25.49	QP	
6		1.1266	17.52	9.87	27.39	46.00	-18.61	AVG	
7		2.5640	24.58	9.93	34.51	56.00	-21.49	QP	
8		2.5640	17.64	9.93	27.57	46.00	-18.43	AVG	
9		3.5897	27.05	9.95	37.00	56.00	-19.00	QP	
10		3.5897	20.28	9.95	30.23	46.00	-15.77	AVG	
11		12.1992	22.65	10.17	32.82	60.00	-27.18	QP	
12		12.1992	19.68	10.17	29.85	50.00	-20.15	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Line
Test Mode :	USB 3.0 READ/WRITE		



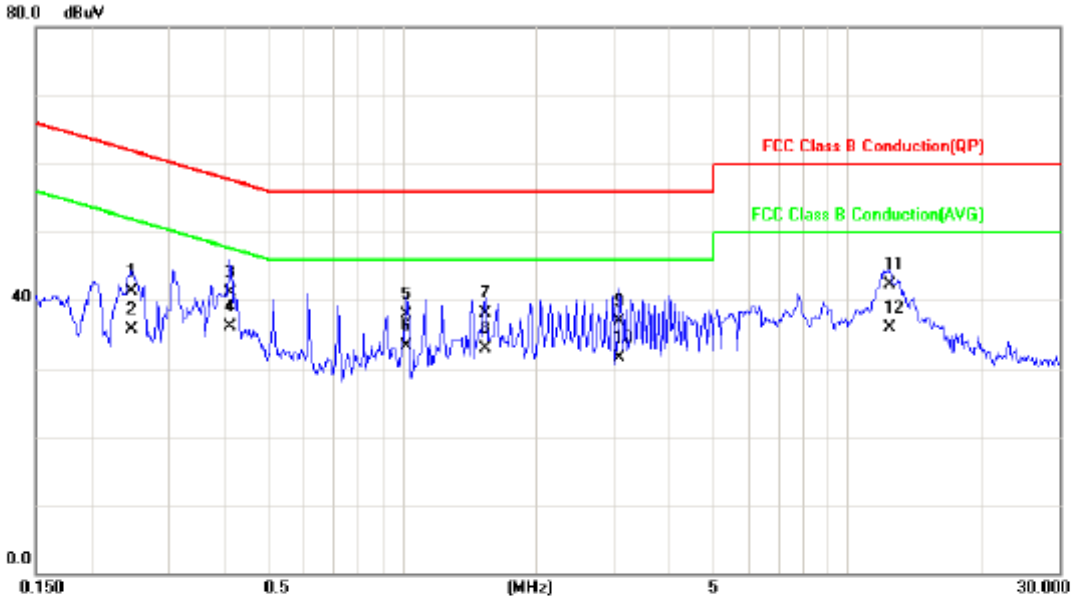
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2028	33.65	9.85	43.50	63.50	-20.00	QP	
2		0.2028	26.45	9.85	36.30	53.50	-17.20	AVG	
3		0.4117	33.20	9.84	43.04	57.61	-14.57	QP	
4	*	0.4117	26.80	9.84	36.64	47.61	-10.97	AVG	
5		1.5363	27.15	9.86	37.01	56.00	-18.99	QP	
6		1.5363	22.68	9.86	32.54	46.00	-13.46	AVG	
7		3.0741	28.18	9.89	38.07	56.00	-17.93	QP	
8		3.0741	22.14	9.89	32.03	46.00	-13.97	AVG	
9		7.8101	28.69	10.03	38.72	60.00	-21.28	QP	
10		7.8101	22.55	10.03	32.58	50.00	-17.42	AVG	
11		12.1240	29.65	10.13	39.78	60.00	-20.22	QP	
12		12.1240	23.45	10.13	33.58	50.00	-16.42	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Neutral
Test Mode :	USB 3.0 READ/WRITE		



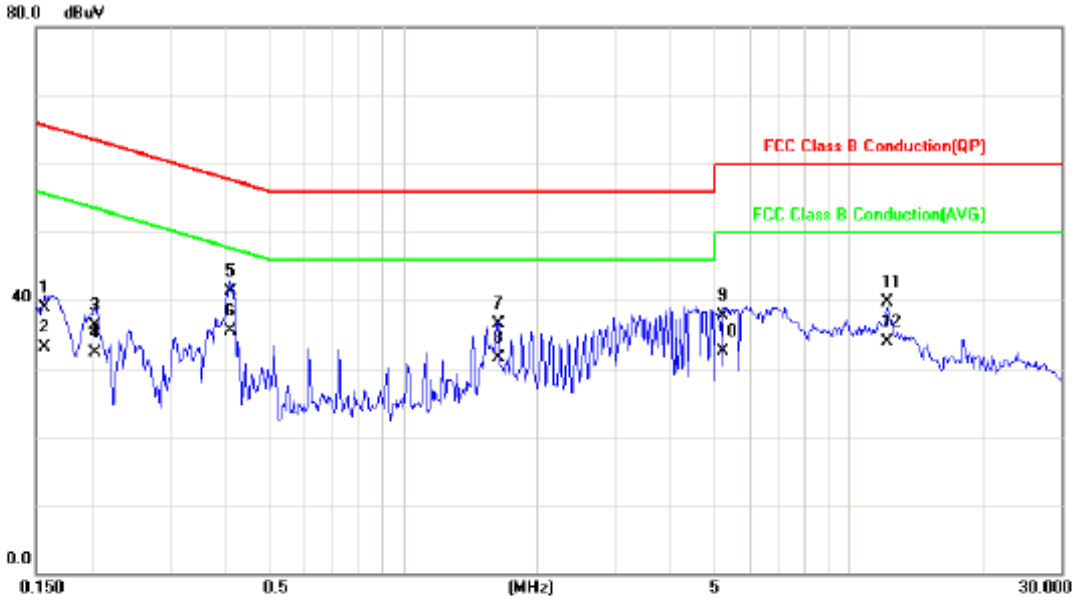
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1577	29.55	9.86	39.41	65.58	-26.17	QP	
2		0.1577	23.68	9.86	33.54	55.58	-22.04	AVG	
3		0.4117	29.58	9.84	39.42	57.61	-18.19	QP	
4	*	0.4117	22.35	9.84	32.19	47.61	-15.42	AVG	
5		1.1265	23.14	9.87	33.01	56.00	-22.99	QP	
6		1.1265	18.24	9.87	28.11	46.00	-17.89	AVG	
7		1.6420	22.97	9.90	32.87	56.00	-23.13	QP	
8		1.6420	19.25	9.90	29.15	46.00	-16.85	AVG	
9		3.3993	25.42	9.94	35.36	56.00	-20.64	QP	
10		3.3993	19.35	9.94	29.29	46.00	-16.71	AVG	
11		12.1990	24.39	10.17	34.56	60.00	-25.44	QP	
12		12.1990	17.20	10.17	27.37	50.00	-22.63	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Line
Test Mode :	WIFI READ/WRITE (PC)		



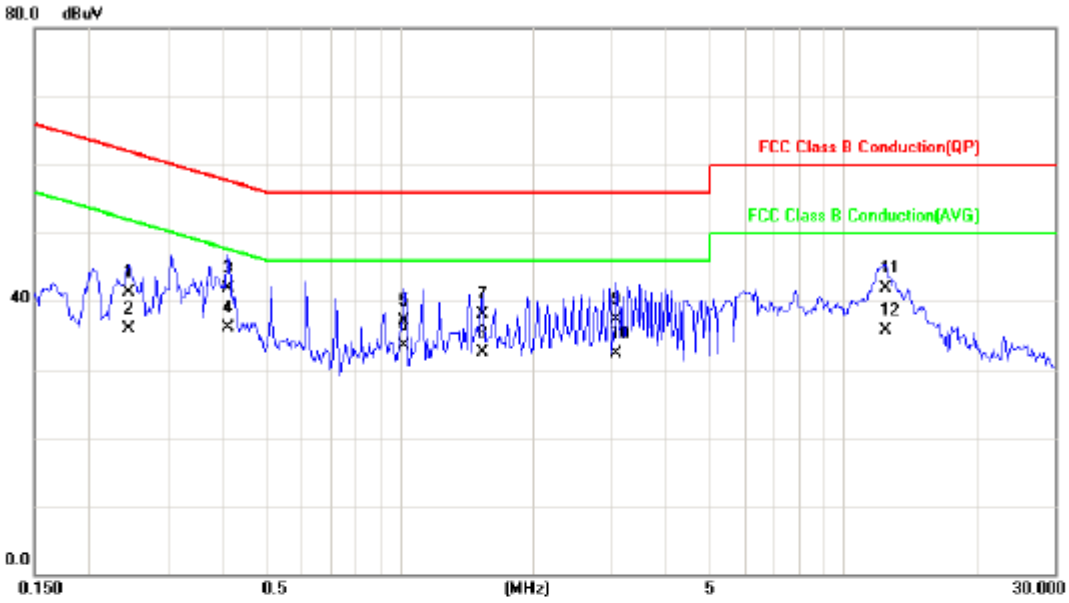
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2474	31.55	9.85	41.40	61.84	-20.44	QP	
2		0.2474	25.87	9.85	35.72	51.84	-16.12	AVG	
3		0.4117	31.24	9.84	41.08	57.61	-16.53	QP	
4	*	0.4117	26.17	9.84	36.01	47.61	-11.60	AVG	
5		1.0250	27.99	9.82	37.81	56.00	-18.19	QP	
6		1.0250	23.54	9.82	33.36	46.00	-12.64	AVG	
7		1.5362	28.17	9.86	38.03	56.00	-17.97	QP	
8		1.5362	23.05	9.86	32.91	46.00	-13.09	AVG	
9		3.0741	26.98	9.89	36.87	56.00	-19.13	QP	
10		3.0741	21.68	9.89	31.57	46.00	-14.43	AVG	
11		12.5040	32.06	10.15	42.21	60.00	-17.79	QP	
12		12.5040	25.80	10.15	35.95	50.00	-14.05	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Neutral
Test Mode :	WIFI READ/WRITE (PC)		



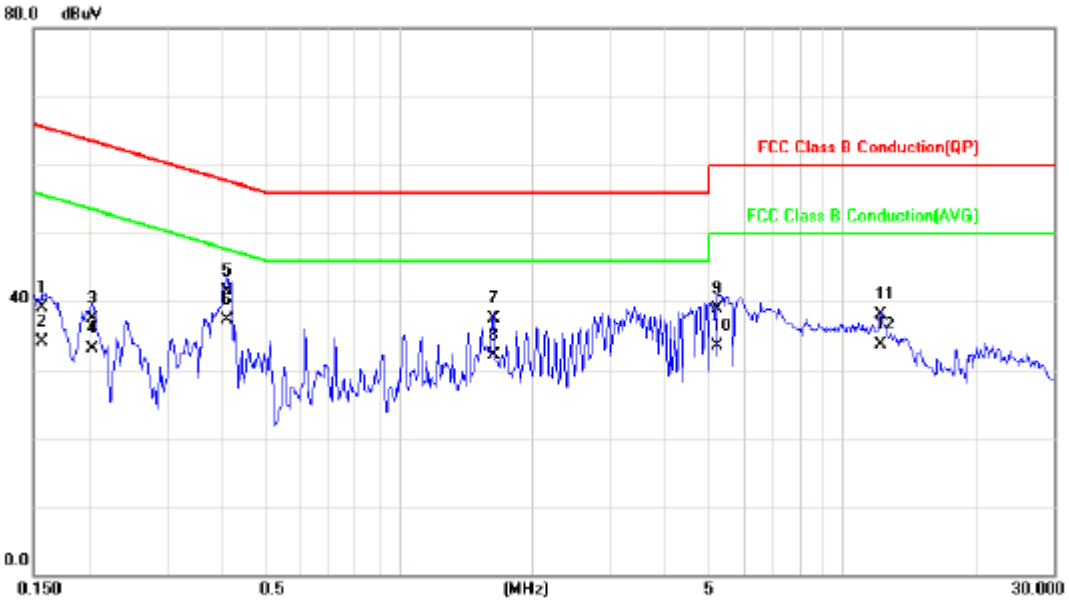
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1577	28.95	9.86	38.81	65.58	-26.77	QP	
2		0.1577	23.15	9.86	33.01	55.58	-22.57	AVG	
3		0.2046	26.45	9.85	36.30	63.42	-27.12	QP	
4		0.2046	22.36	9.85	32.21	53.42	-21.21	AVG	
5		0.4117	31.47	9.84	41.31	57.61	-16.30	QP	
6	*	0.4117	25.67	9.84	35.51	47.61	-12.10	AVG	
7		1.6420	26.57	9.90	36.47	56.00	-19.53	QP	
8		1.6420	21.58	9.90	31.48	46.00	-14.52	AVG	
9		5.2263	27.68	9.98	37.66	60.00	-22.34	QP	
10		5.2263	22.45	9.98	32.43	50.00	-17.57	AVG	
11		12.1990	29.57	10.17	39.74	60.00	-20.26	QP	
12		12.1990	23.66	10.17	33.83	50.00	-16.17	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Line
Test Mode :	LAN READ/WRITE (PC)		



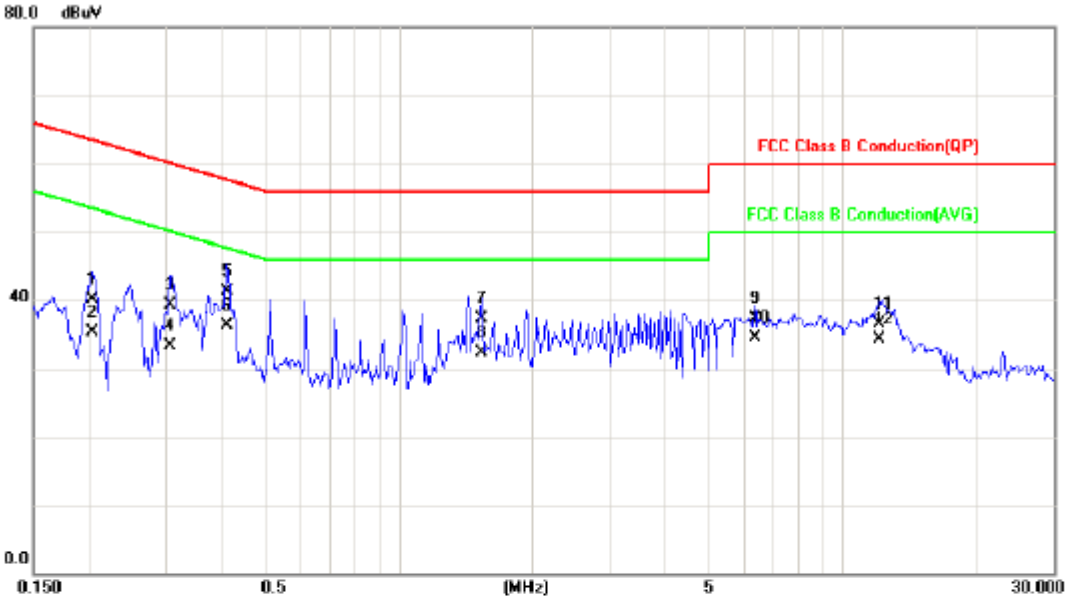
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2474	31.36	9.85	41.21	61.84	-20.63	QP	
2		0.2474	26.14	9.85	35.99	51.84	-15.85	AVG	
3		0.4117	32.15	9.84	41.99	57.61	-15.62	QP	
4	*	0.4117	26.35	9.84	36.19	47.61	-11.42	AVG	
5		1.0250	27.26	9.82	37.08	56.00	-18.92	QP	
6		1.0250	23.64	9.82	33.46	46.00	-12.54	AVG	
7		1.5362	28.17	9.86	38.03	56.00	-17.97	QP	
8		1.5362	22.65	9.86	32.51	46.00	-13.49	AVG	
9		3.0741	27.47	9.89	37.36	56.00	-18.64	QP	
10		3.0741	22.36	9.89	32.25	46.00	-13.75	AVG	
11		12.5040	31.78	10.15	41.93	60.00	-18.07	QP	
12		12.5040	25.47	10.15	35.62	50.00	-14.38	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Neutral
Test Mode :	LAN READ/WRITE (PC)		



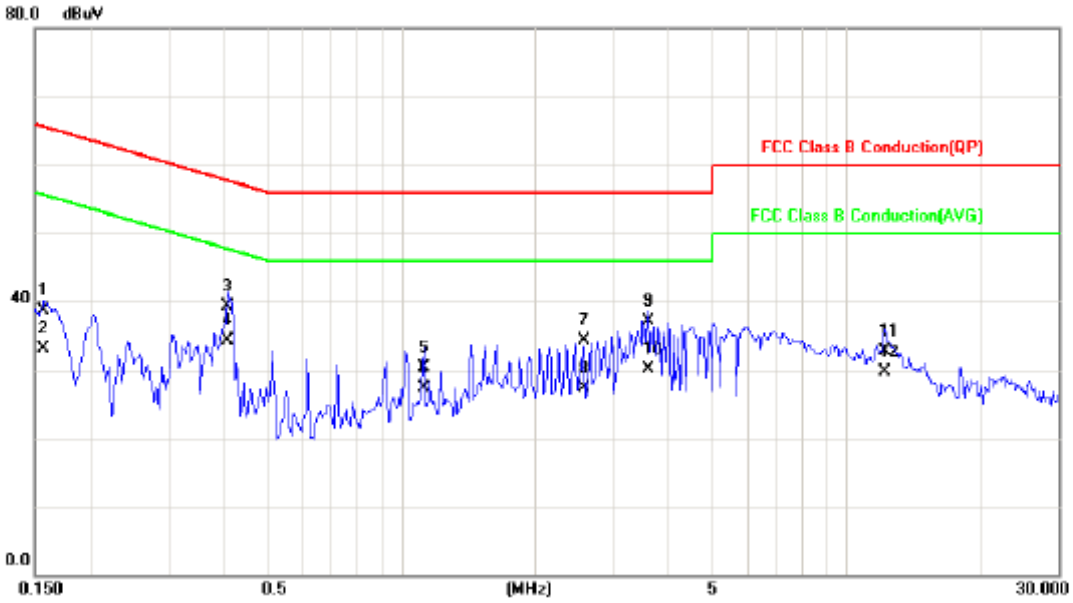
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1577	29.15	9.86	39.01	65.58	-26.57	QP	
2		0.1577	24.28	9.86	34.14	55.58	-21.44	AVG	
3		0.2046	27.68	9.85	37.53	63.42	-25.89	QP	
4		0.2046	23.18	9.85	33.03	53.42	-20.39	AVG	
5		0.4117	31.67	9.84	41.51	57.61	-16.10	QP	
6	*	0.4117	27.54	9.84	37.38	47.61	-10.23	AVG	
7		1.6420	27.69	9.90	37.59	56.00	-18.41	QP	
8		1.6420	22.25	9.90	32.15	46.00	-13.85	AVG	
9		5.2263	28.90	9.98	38.88	60.00	-21.12	QP	
10		5.2263	23.54	9.98	33.52	50.00	-16.48	AVG	
11		12.1990	27.87	10.17	38.04	60.00	-21.96	QP	
12		12.1990	23.58	10.17	33.75	50.00	-16.25	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Line
Test Mode :	USB OUT (PC)		



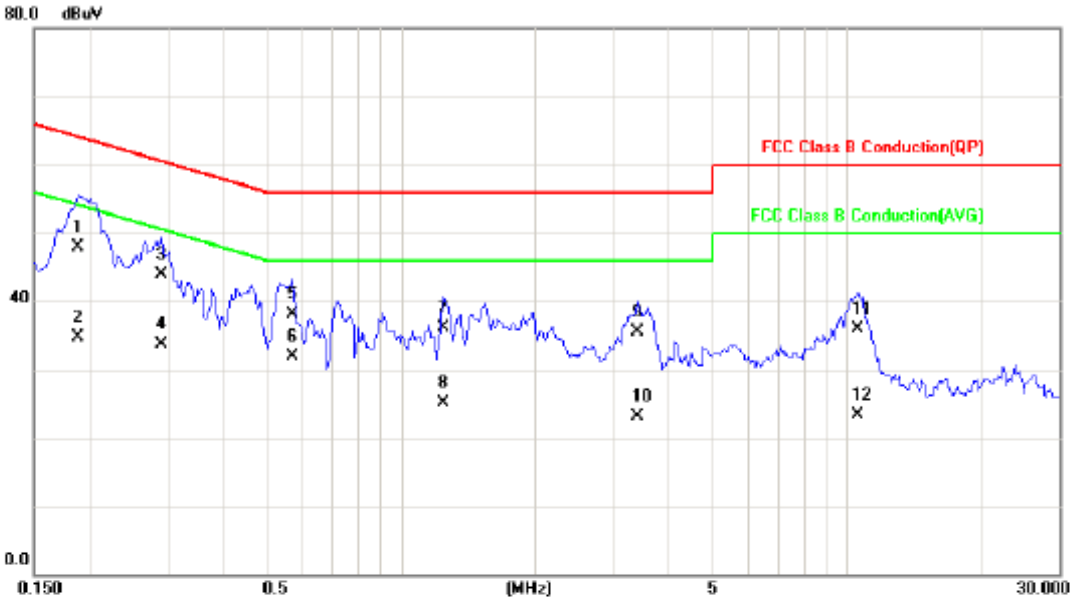
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2046	30.31	9.85	40.16	63.42	-23.26	QP	
2		0.2046	25.37	9.85	35.22	53.42	-18.20	AVG	
3		0.3062	29.55	9.84	39.39	60.07	-20.68	QP	
4		0.3062	23.51	9.84	33.35	50.07	-16.72	AVG	
5		0.4117	31.46	9.84	41.30	57.61	-16.31	QP	
6	*	0.4117	26.37	9.84	36.21	47.61	-11.40	AVG	
7		1.5366	27.48	9.86	37.34	56.00	-18.66	QP	
8		1.5367	22.46	9.86	32.32	46.00	-13.68	AVG	
9		6.3554	27.37	9.98	37.35	60.00	-22.65	QP	
10		6.3554	24.55	9.98	34.53	50.00	-15.47	AVG	
11		12.1240	26.45	10.13	36.58	60.00	-23.42	QP	
12		12.1240	24.20	10.13	34.33	50.00	-15.67	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Neutral
Test Mode :	USB OUT (PC)		



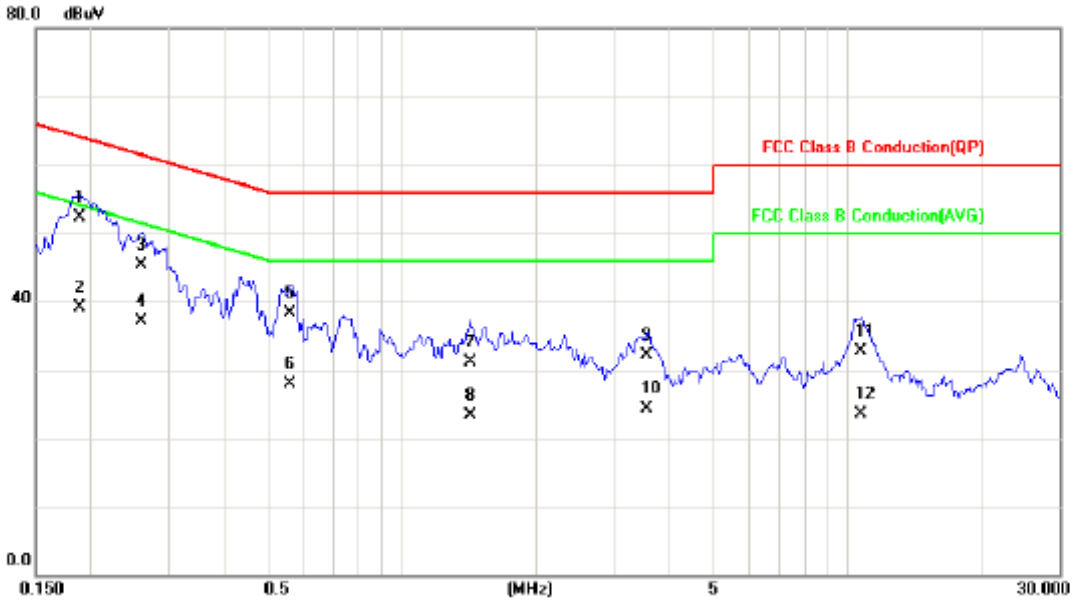
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1578	28.86	9.86	38.72	65.58	-26.86	QP	
2		0.1578	23.16	9.86	33.02	55.58	-22.56	AVG	
3		0.4078	29.46	9.84	39.30	57.69	-18.39	QP	
4	*	0.4078	24.38	9.84	34.22	47.69	-13.47	AVG	
5		1.1265	20.38	9.87	30.25	56.00	-25.75	QP	
6		1.1266	17.44	9.87	27.31	46.00	-18.69	AVG	
7		2.5640	24.35	9.93	34.28	56.00	-21.72	QP	
8		2.5640	17.39	9.93	27.32	46.00	-18.68	AVG	
9		3.5897	27.25	9.95	37.20	56.00	-18.80	QP	
10		3.5897	20.21	9.95	30.16	46.00	-15.84	AVG	
11		12.1992	22.62	10.17	32.79	60.00	-27.21	QP	
12		12.1992	19.46	10.17	29.63	50.00	-20.37	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Line
Test Mode :	WIFI READ/WRITE (Adapter)		



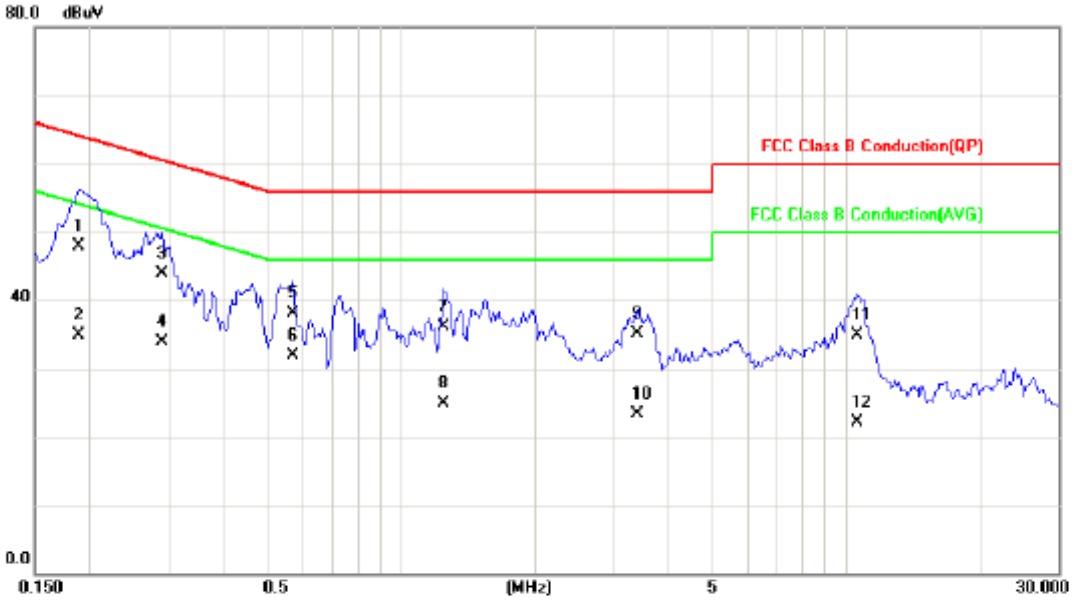
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1891	38.25	9.58	47.83	64.08	-16.25	QP	
2		0.1891	25.14	9.58	34.72	54.08	-19.36	AVG	
3		0.2906	34.26	9.61	43.87	60.51	-16.64	QP	
4		0.2906	24.12	9.61	33.73	50.51	-16.78	AVG	
5		0.5720	28.41	9.65	38.06	56.00	-17.94	QP	
6	*	0.5720	22.35	9.65	32.00	46.00	-14.00	AVG	
7		1.2437	26.47	9.73	36.20	56.00	-19.80	QP	
8		1.2437	15.47	9.73	25.20	46.00	-20.80	AVG	
9		3.3867	25.64	9.87	35.51	56.00	-20.49	QP	
10		3.3867	13.24	9.87	23.11	46.00	-22.89	AVG	
11		10.5781	25.67	10.22	35.89	60.00	-24.11	QP	
12		10.5781	13.14	10.22	23.36	50.00	-26.64	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Neutral
WIFI	WIFI READ/WRITE (Adapter)		



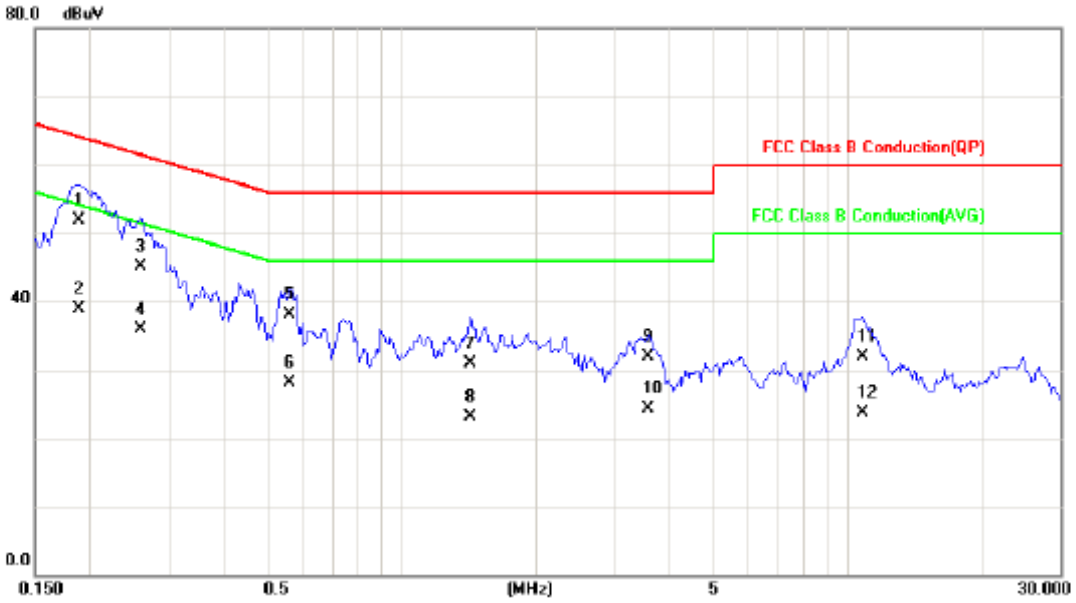
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1891	42.65	9.57	52.22	64.08	-11.86	QP	
2		0.1891	29.54	9.57	39.11	54.08	-14.97	AVG	
3		0.2594	35.78	9.61	45.39	61.45	-16.06	QP	
4		0.2594	27.54	9.61	37.15	51.45	-14.30	AVG	
5		0.5641	28.52	9.70	38.22	56.00	-17.78	QP	
6		0.5641	18.15	9.70	27.85	46.00	-18.15	AVG	
7		1.4234	21.25	9.81	31.06	56.00	-24.94	QP	
8		1.4234	13.45	9.81	23.26	46.00	-22.74	AVG	
9		3.5586	22.05	9.97	32.02	56.00	-23.98	QP	
10		3.5586	14.25	9.97	24.22	46.00	-21.78	AVG	
11		10.7540	22.36	10.26	32.62	60.00	-27.38	QP	
12		10.7540	13.25	10.26	23.51	50.00	-26.49	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Line
Test Mode :	LAN READ/WRITE (Adapter)		



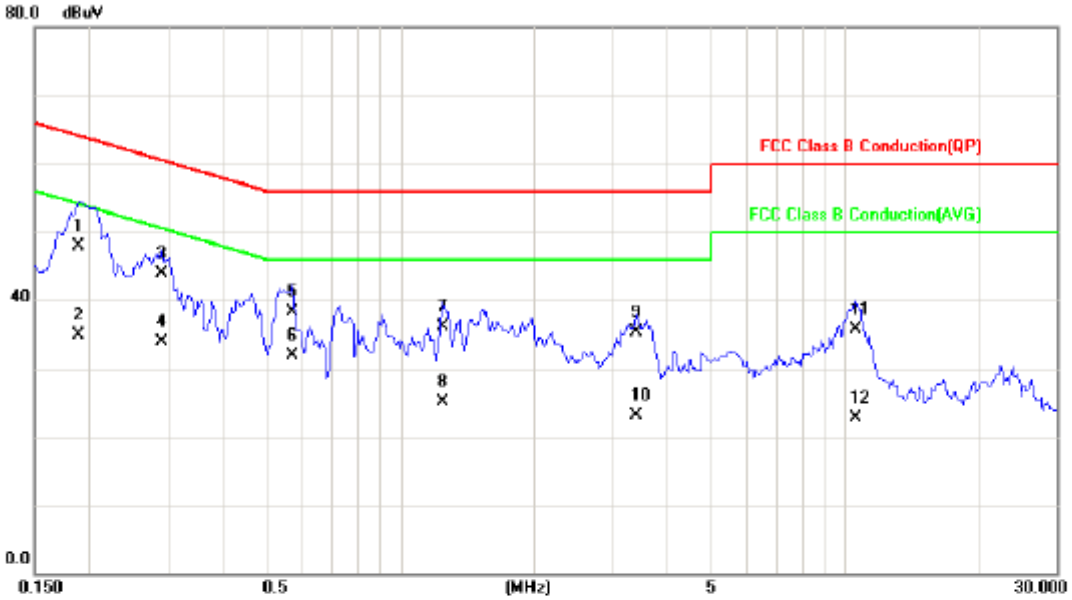
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1891	38.22	9.76	47.98	64.08	-16.10	QP	
2		0.1891	25.14	9.76	34.90	54.08	-19.18	AVG	
3		0.2906	34.25	9.73	43.98	60.51	-16.53	QP	
4		0.2906	24.25	9.73	33.98	50.51	-16.53	AVG	
5		0.5720	28.36	9.70	38.06	56.00	-17.94	QP	
6	*	0.5720	22.14	9.70	31.84	46.00	-14.16	AVG	
7		1.2437	26.41	9.70	36.11	56.00	-19.89	QP	
8		1.2437	15.27	9.70	24.97	46.00	-21.03	AVG	
9		3.3867	25.39	9.74	35.13	56.00	-20.87	QP	
10		3.3867	13.54	9.74	23.28	46.00	-22.72	AVG	
11		10.5781	25.14	9.82	34.96	60.00	-25.04	QP	
12		10.5781	12.36	9.82	22.18	50.00	-27.82	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Neutral
Test Mode :	LAN READ/WRITE (Adapter)		



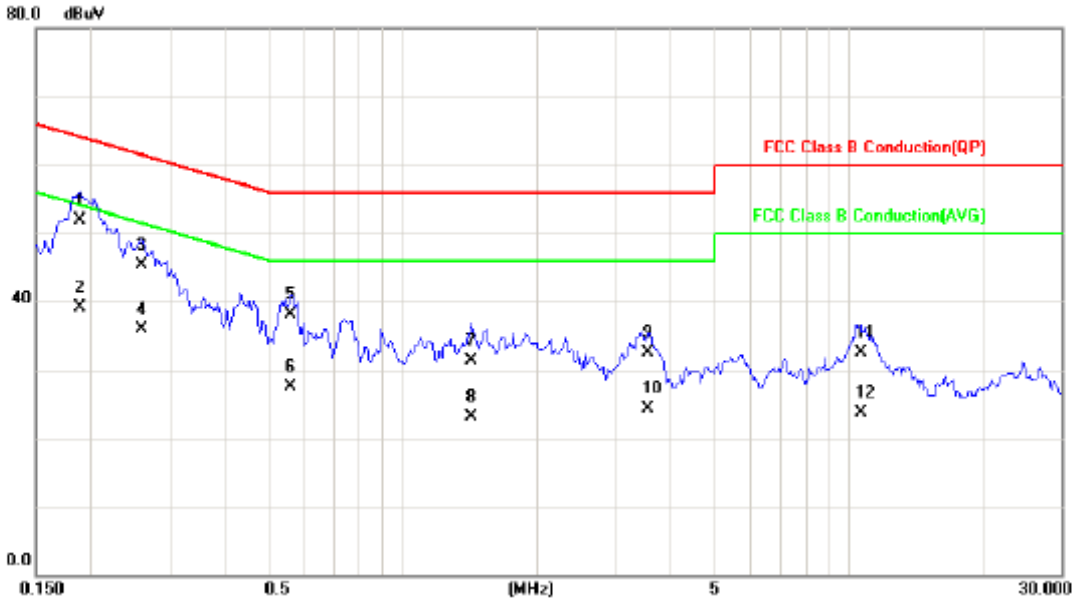
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1891	42.14	9.75	51.89	64.08	-12.19	QP	
2		0.1891	29.14	9.75	38.89	54.08	-15.19	AVG	
3		0.2594	35.36	9.73	45.09	61.45	-16.36	QP	
4		0.2594	26.17	9.73	35.90	51.45	-15.55	AVG	
5		0.5641	28.42	9.69	38.11	56.00	-17.89	QP	
6		0.5641	18.36	9.69	28.05	46.00	-17.95	AVG	
7		1.4234	21.24	9.68	30.92	56.00	-25.08	QP	
8		1.4234	13.36	9.68	23.04	46.00	-22.96	AVG	
9		3.5586	22.24	9.73	31.97	56.00	-24.03	QP	
10		3.5586	14.52	9.73	24.25	46.00	-21.75	AVG	
11		10.7540	22.14	9.82	31.96	60.00	-28.04	QP	
12		10.7540	13.85	9.82	23.67	50.00	-26.33	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Line
Test Mode :	USB OUT (Adapter)		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1891	38.27	9.58	47.85	64.08	-16.23	QP	
2		0.1891	25.37	9.58	34.95	54.08	-19.13	AVG	
3		0.2906	34.32	9.61	43.93	60.51	-16.58	QP	
4		0.2906	24.24	9.61	33.85	50.51	-16.66	AVG	
5		0.5720	28.75	9.65	38.40	56.00	-17.60	QP	
6	*	0.5720	22.34	9.65	31.99	46.00	-14.01	AVG	
7		1.2437	26.44	9.73	36.17	56.00	-19.83	QP	
8		1.2437	15.35	9.73	25.08	46.00	-20.92	AVG	
9		3.3867	25.44	9.87	35.31	56.00	-20.69	QP	
10		3.3867	13.20	9.87	23.07	46.00	-22.93	AVG	
11		10.5781	25.52	10.22	35.74	60.00	-24.26	QP	
12		10.5781	12.47	10.22	22.69	50.00	-27.31	AVG	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	23° C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz	Phase:	Neutral
Test Mode :	USB OUT (Adapter)		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1891	42.43	9.57	52.00	64.08	-12.08	QP	
2		0.1891	29.55	9.57	39.12	54.08	-14.96	AVG	
3		0.2594	35.72	9.61	45.33	61.45	-16.12	QP	
4		0.2594	26.37	9.61	35.98	51.45	-15.47	AVG	
5		0.5641	28.48	9.70	38.18	56.00	-17.82	QP	
6		0.5641	17.86	9.70	27.56	46.00	-18.44	AVG	
7		1.4234	21.47	9.81	31.28	56.00	-24.72	QP	
8		1.4234	13.33	9.81	23.14	46.00	-22.86	AVG	
9		3.5586	22.51	9.97	32.48	56.00	-23.52	QP	
10		3.5586	14.34	9.97	24.31	46.00	-21.69	AVG	
11		10.7540	22.24	10.26	32.50	60.00	-27.50	QP	
12		10.7540	13.43	10.26	23.69	50.00	-26.31	AVG	

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

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.

Frequencies (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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3m)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

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

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Antenna	Schwarbeck	VULB9160	9160-3232	Jun .04.2012	May.25.2013
2	Amplifier	HP	8447D	2944A09673	May.26.2012	May.04.2013
3	Test Receiver	R&S	ESCI	100382	May.26.2012	May.04.2013
4	Test Cable	N/A	C-01_CB03	N/A	Jul.01.2012	Jul.01.2013
5	Antenna	ETS	3115	00075789	May.26.2012	May.25.2013
6	Amplifier	Agilent	8449B	3008A02274	May.26.2012	May.04.2013
7	Spectrum	Agilent	E4408B	US39240143	Nov.25.2012	Nov.16.2013
8	Test Cable	HUBER+SUHNER	C-45	N/A	May.04.2012	May.02.2013
9	Controller	CT	SC100	N/A	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	May.26.2012	May.25.2013
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Oct.13.2012	May.04.2013
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.13.2012	Oct.12.2013

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of Equipment List is One Year.

Spectrum 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

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.3 TEST PROCEDURE

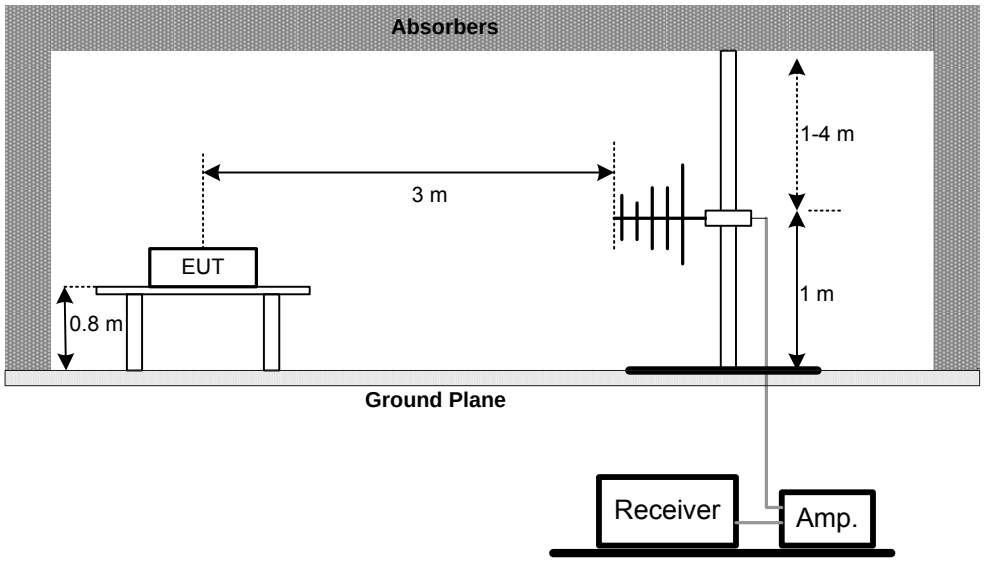
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
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.

4.2.4 DEVIATION FROM TEST STANDARD

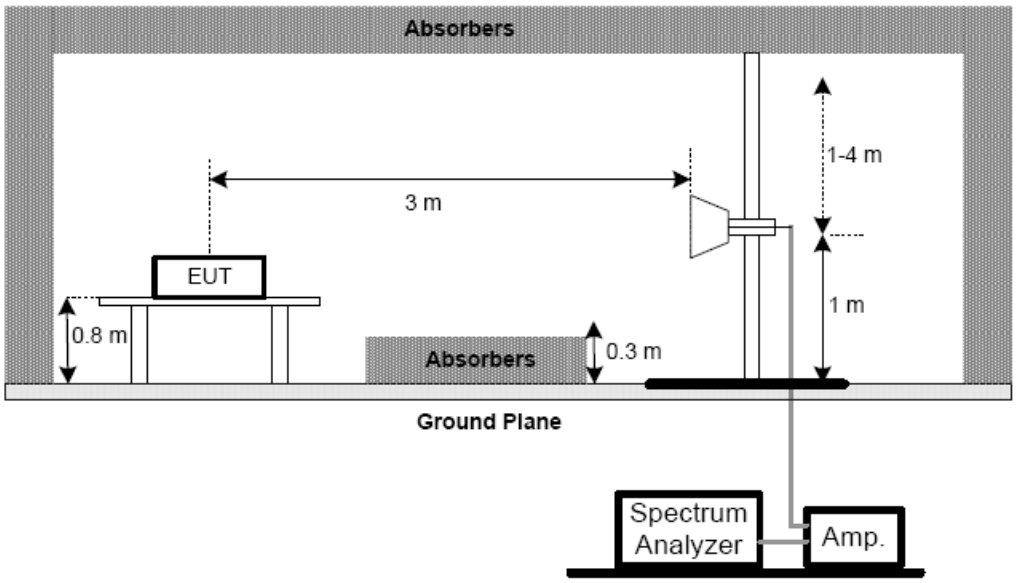
No deviation

4.2.5 TEST SETUP

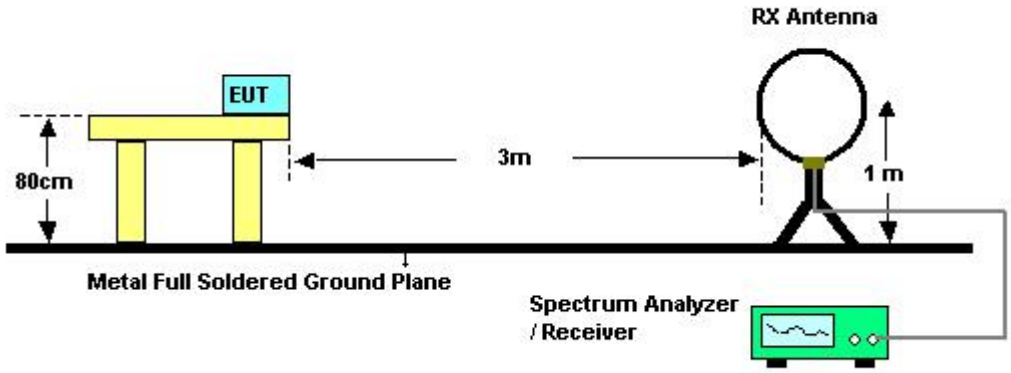
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.2.6 EUT OPERATING CONDITIONS

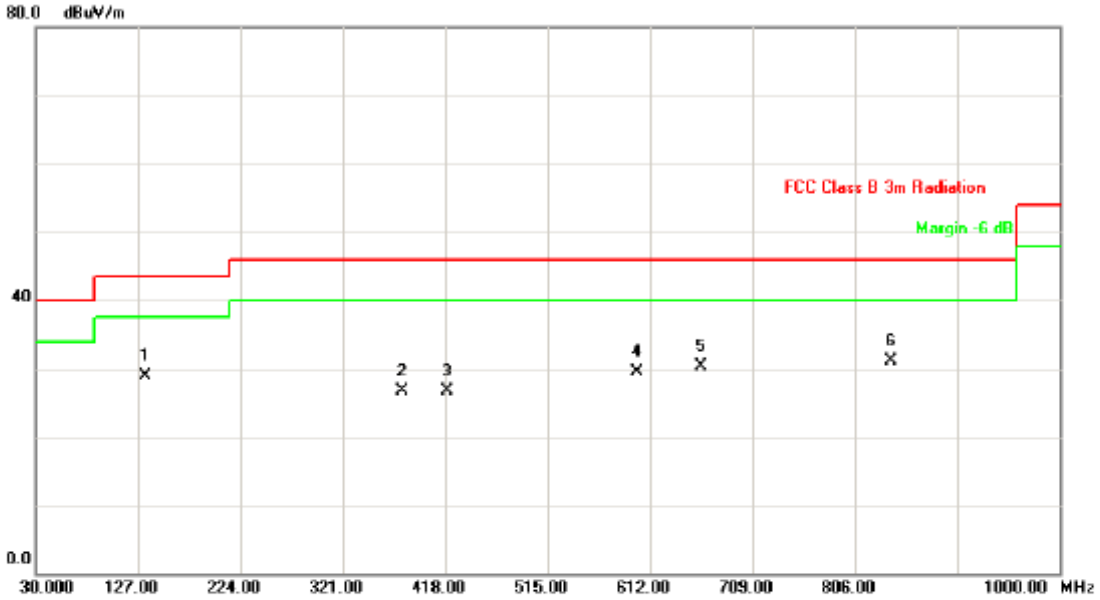
The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.8 TEST RESULTS-BETWEEN 30MHZ AND 1000MHZ

Remark：

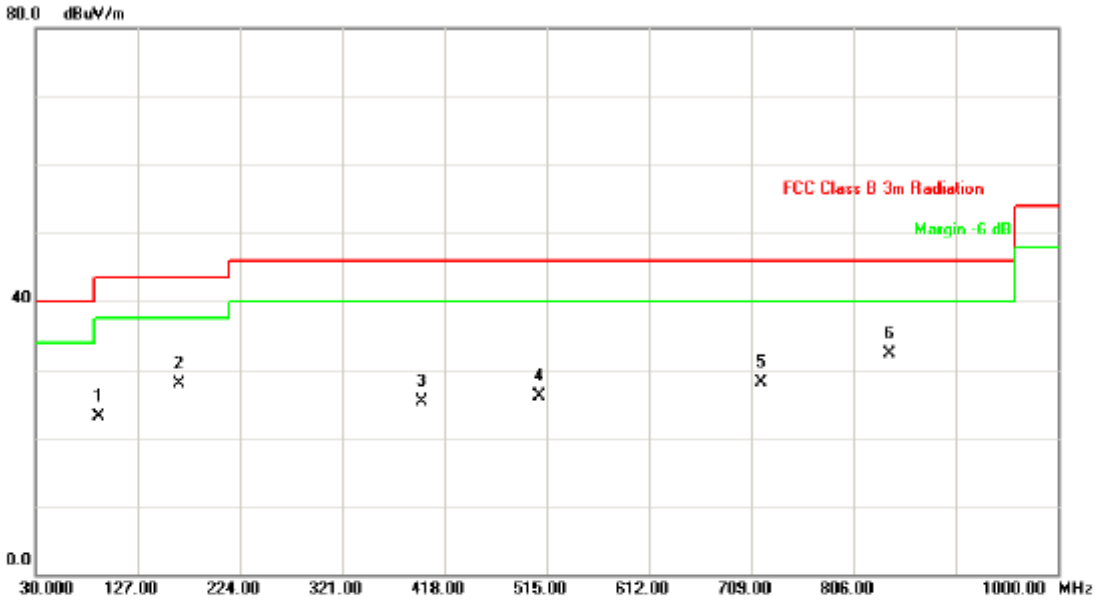
(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform.
(3) Measuring frequency range from 30MHz to 1000MHz.
(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	25° C	Relative Humidity :	52 %
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX B MODE CHANNEL 01	Polarization:	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	134.2750	47.14	-18.20	28.94	43.50	-14.56	QP	
2		376.7750	37.25	-10.61	26.64	46.00	-19.36	QP	
3		420.4250	36.18	-9.48	26.70	46.00	-19.30	QP	
4		599.8750	35.02	-5.50	29.52	46.00	-16.48	QP	
5		660.5000	34.95	-4.67	30.28	46.00	-15.72	QP	
6		839.9500	34.05	-2.90	31.15	46.00	-14.85	QP	

E.U.T :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	25° C	Relative Humidity :	52 %
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX B MODE CHANNEL 01	Polarization:	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		90.6250	42.38	-19.18	23.20	43.50	-20.30	QP	
2		165.8000	45.69	-17.77	27.92	43.50	-15.58	QP	
3		396.1750	35.17	-9.95	25.22	46.00	-20.78	QP	
4		507.7250	34.28	-8.11	26.17	46.00	-19.83	QP	
5		718.7000	32.67	-4.50	28.17	46.00	-17.83	QP	
6	*	839.9500	35.17	-2.90	32.27	46.00	-13.73	QP	

4.2.7 TEST RESULTS (ABOVE 1000 MHZ)

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.42	11.50	32.28	54.70	43.78	74.00	54.00	-19.30	-10.22	X/E
2410.26	**V**	**62.17**	**58.91**	**32.26**	**94.43**	**91.17**					**X/F**
4823.95	V	52.31	46.41	6.19	58.50	52.60	74.00	54.00	-15.50	-1.40	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

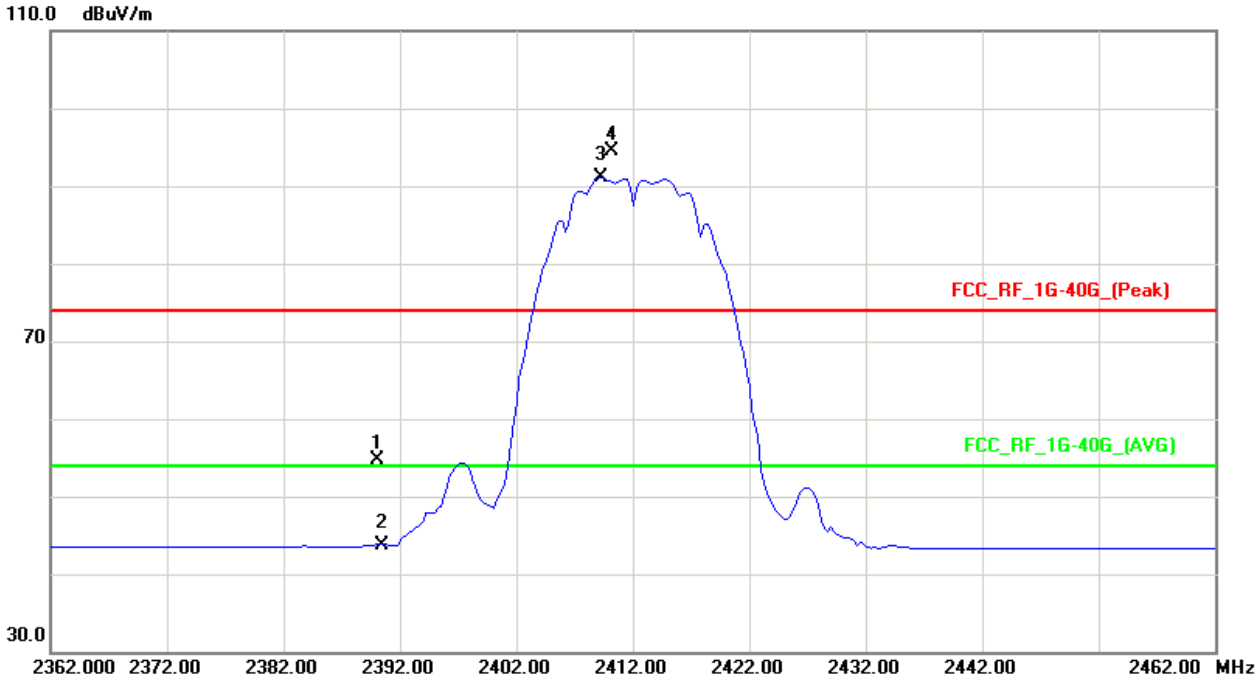
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

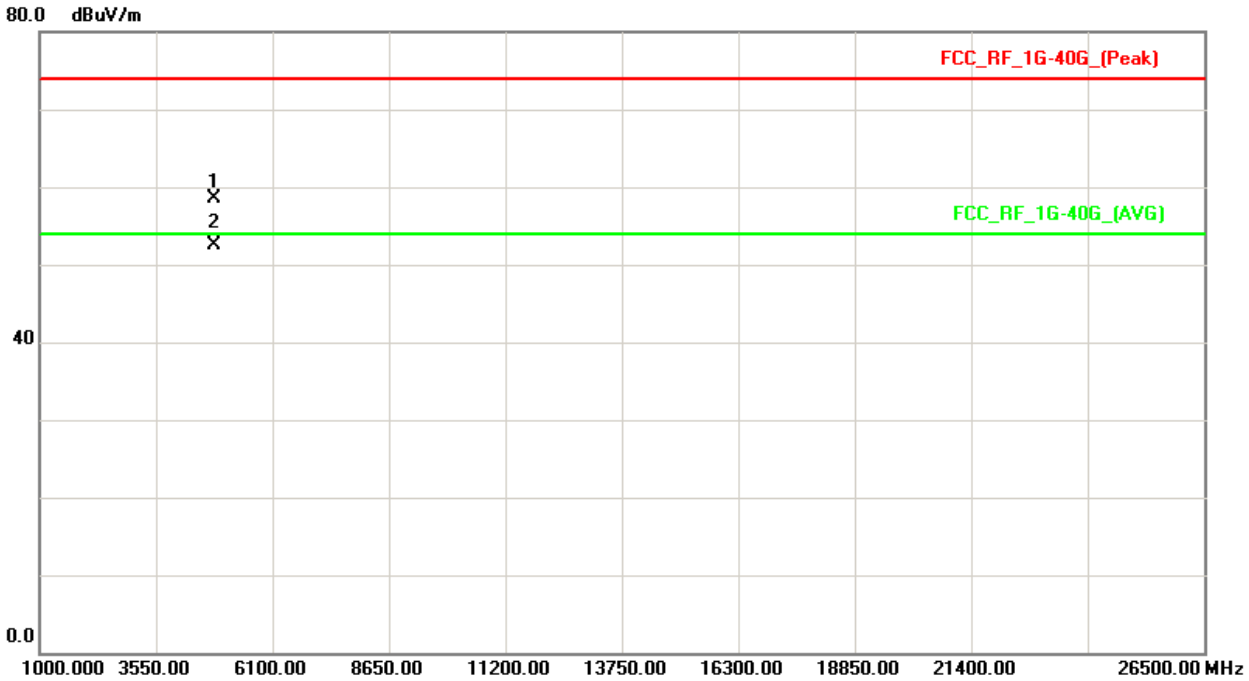
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH01 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	23.01	13.45	32.28	55.29	45.73	74.00	54.00	-18.71	-8.27	X/E
2410.25	**H**	**63.14**	**61.48**	**32.26**	**95.40**	**93.74**					**X/F**
4824.03	H	47.63	40.24	6.19	53.82	46.43	74.00	54.00	-20.18	-7.57	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

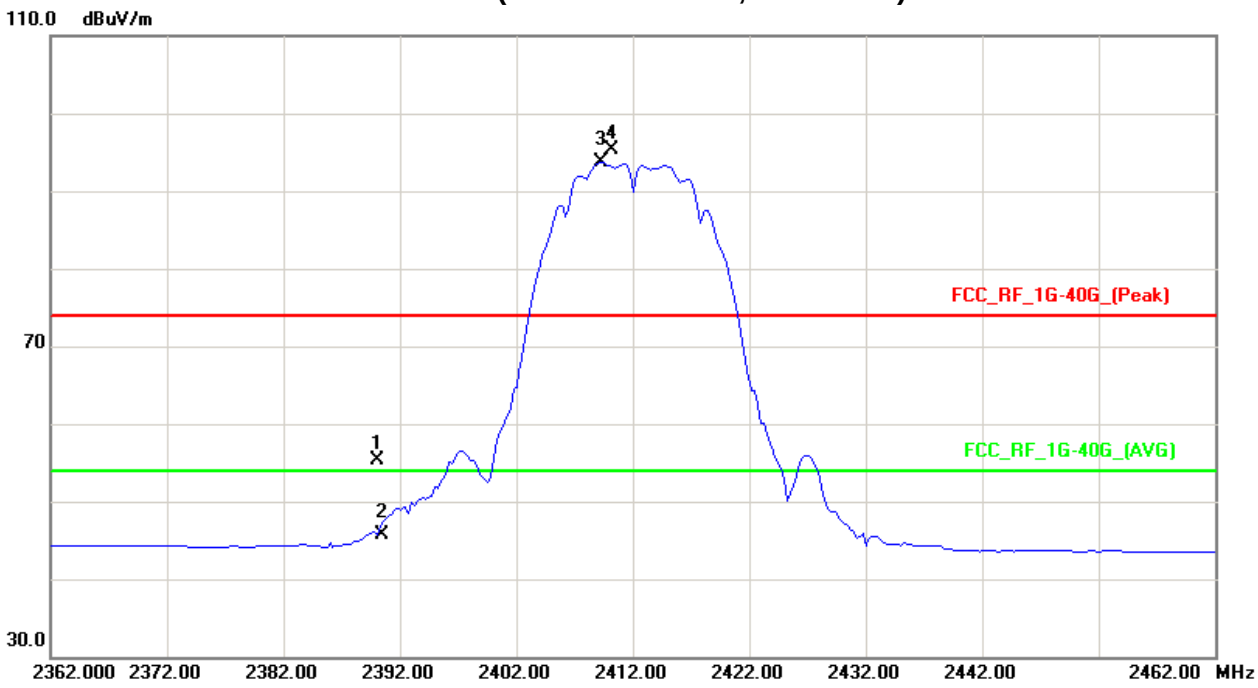
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

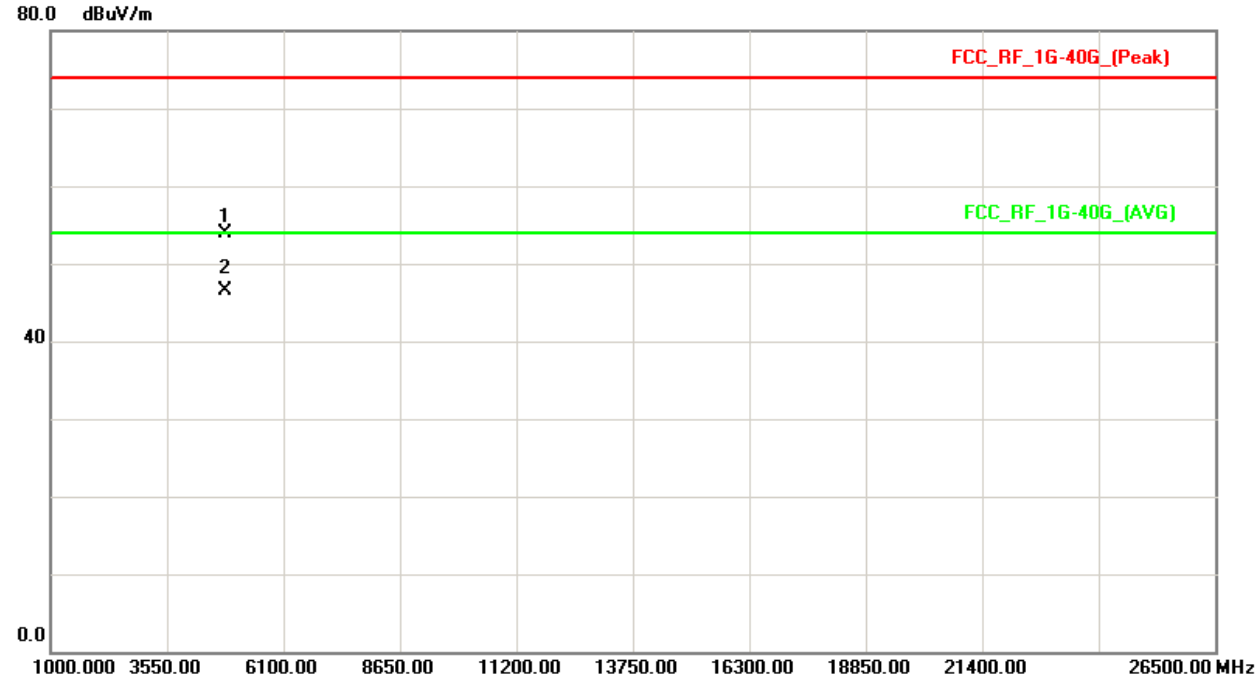
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH01 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE 2437MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.15	**V**	**61.35**	**58.05**	**32.23**	**93.58**	**90.28**					**X/F**
4874.55	V	51.36	45.68	6.39	57.75	52.07	74.00	54.00	-16.25	-1.93	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

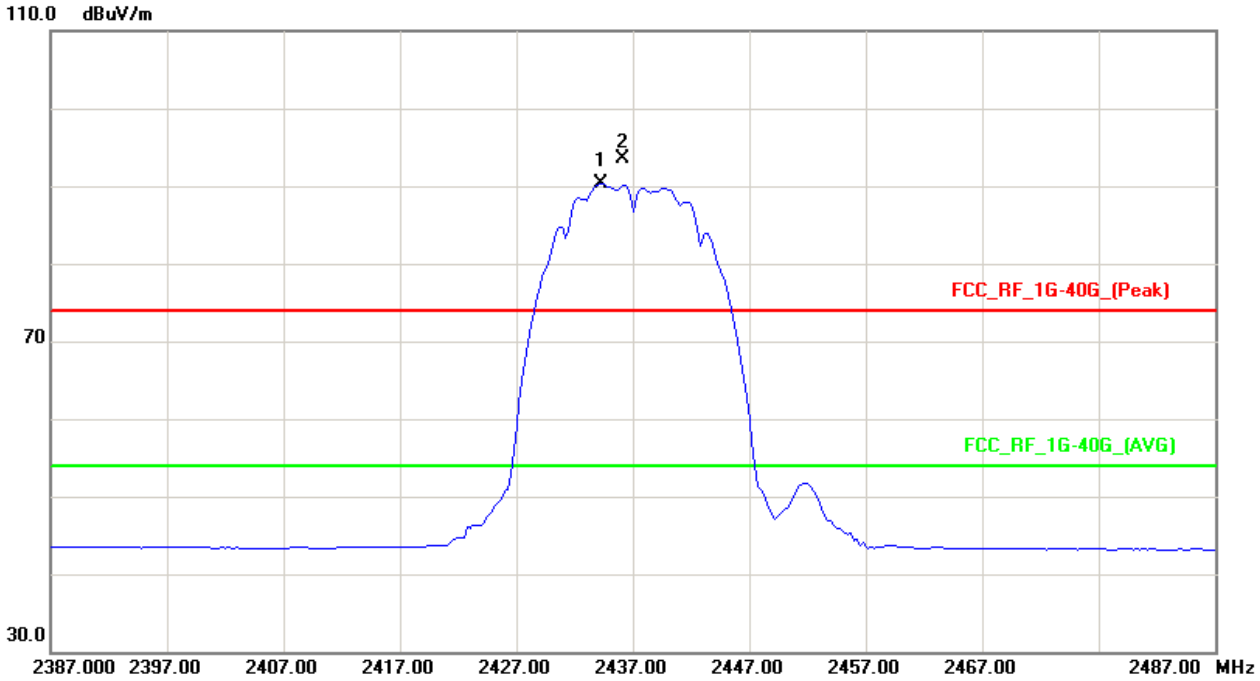
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

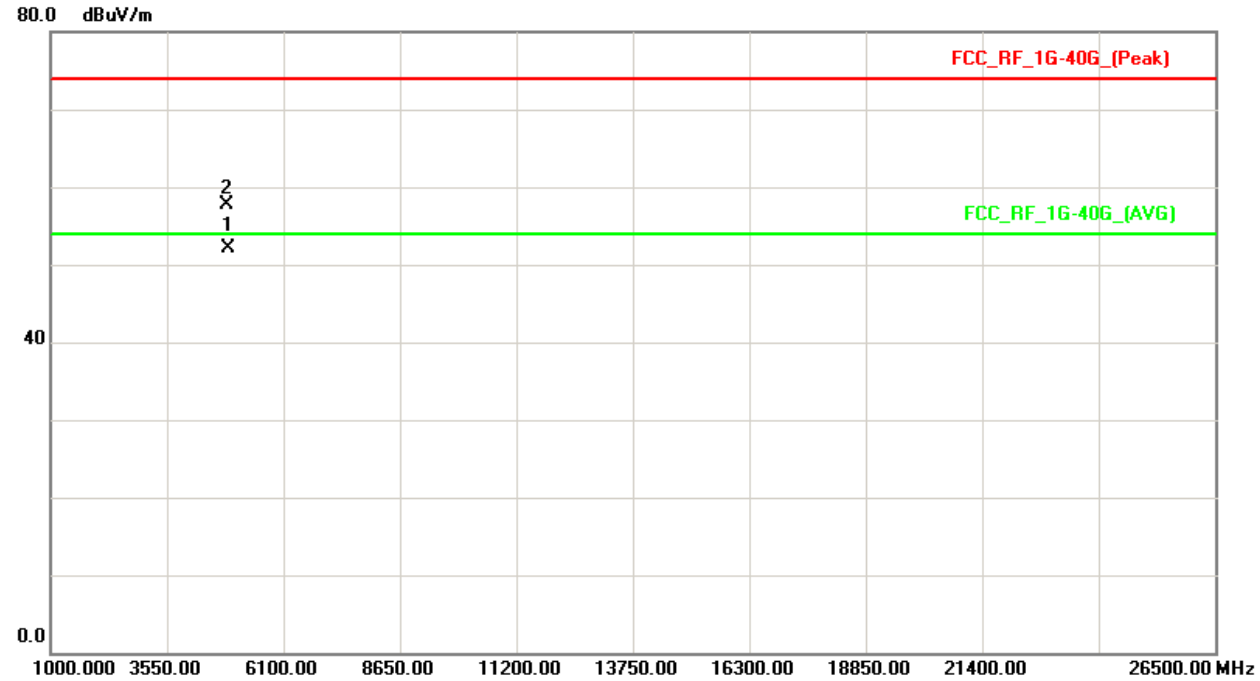
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH06 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE 2437MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.24	**H**	**63.12**	**60.98**	**32.23**	**95.35**	**93.21**					**X/F**
4874.25	H	40.24	46.85	6.39	46.63	53.24	74.00	54.00	-27.37	-0.76	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

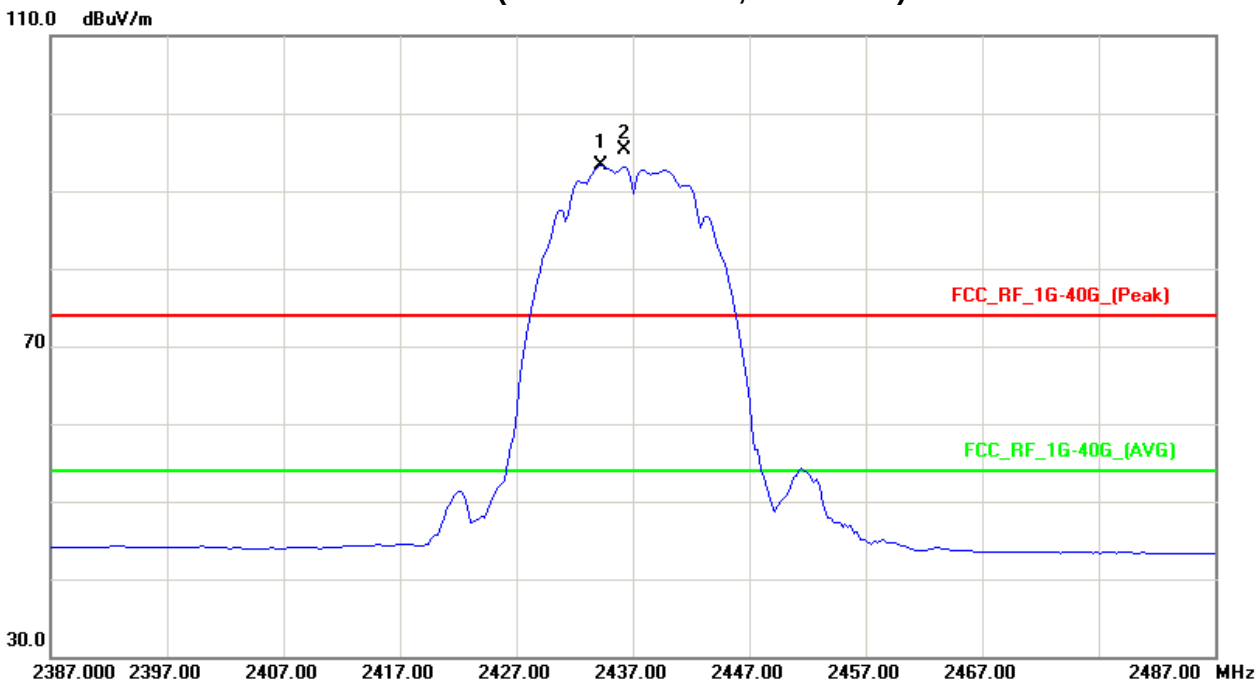
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

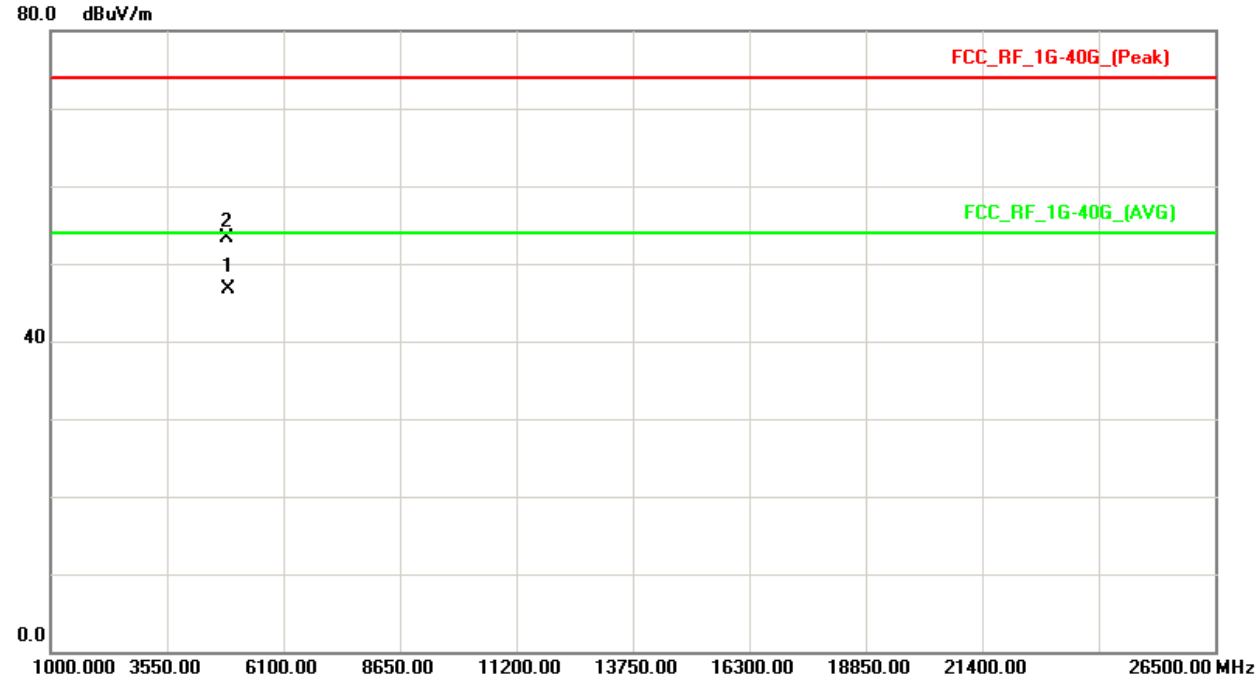
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH06 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.25	**V**	**62.34**	**58.72**	**32.20**	**94.54**	**90.92**					**X/F**
2483.50	V	24.36	14.36	32.17	56.53	46.53	74.00	54.00	-17.47	-7.47	X/E
4924.75	V	52.14	45.75	6.59	58.73	52.34	74.00	54.00	-15.27	-1.66	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

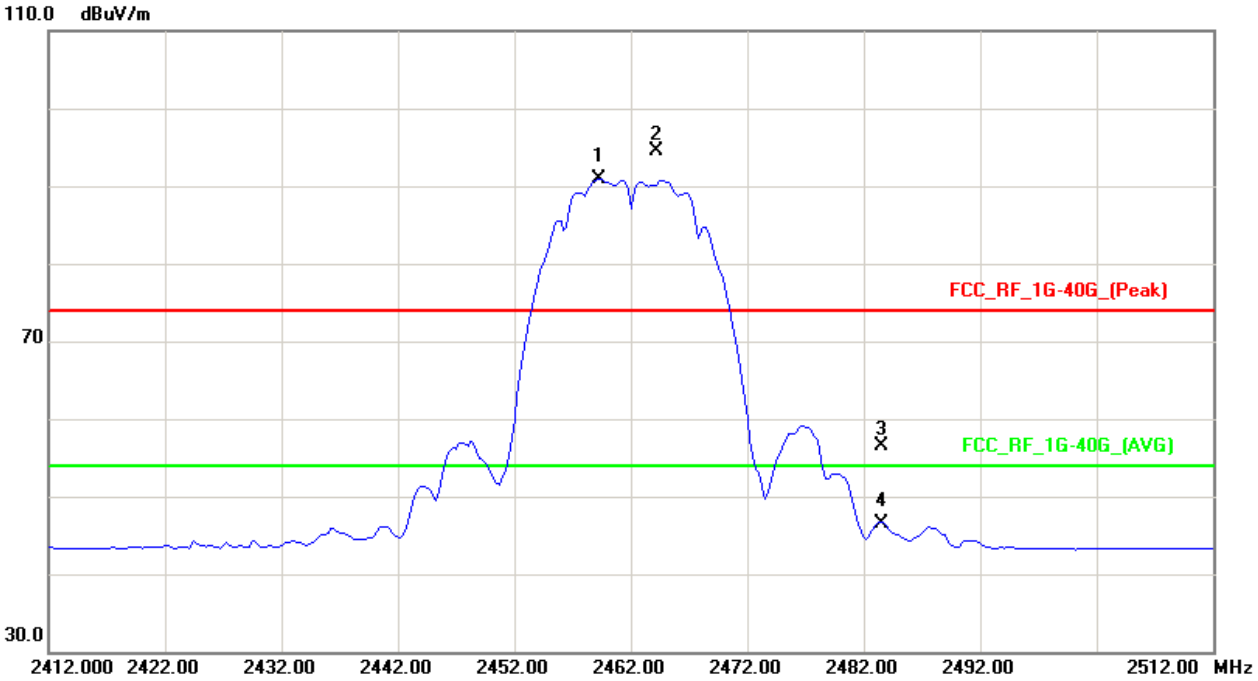
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

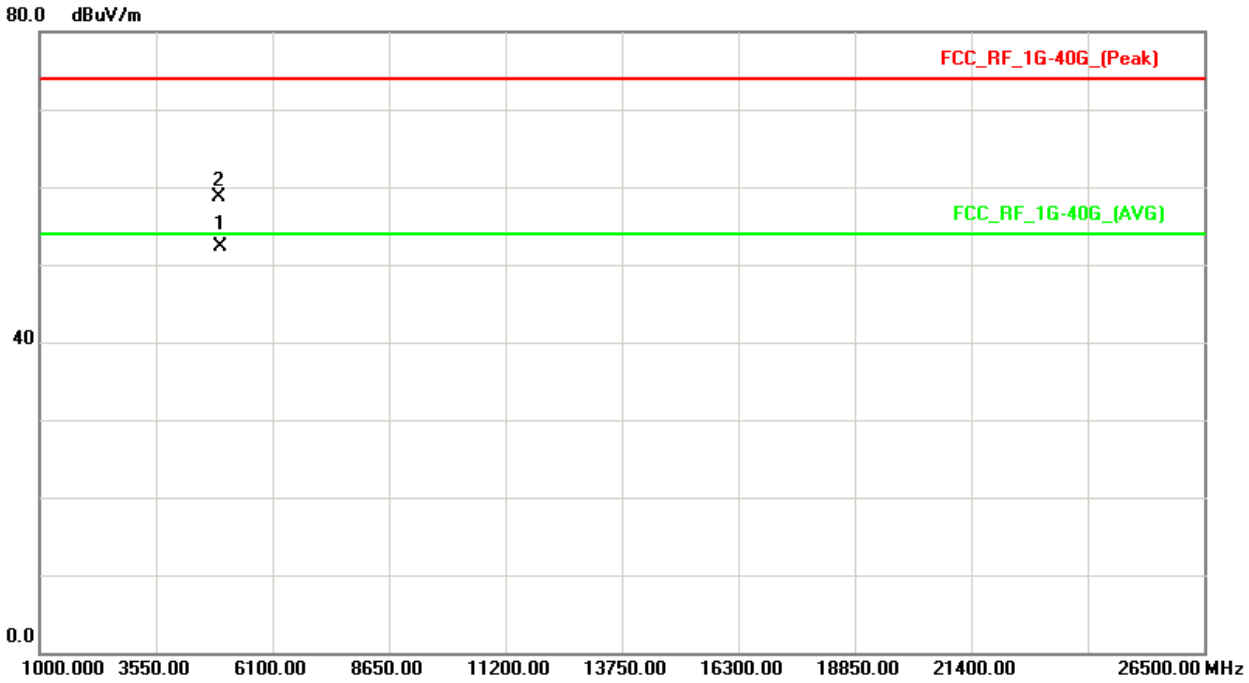
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH11 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2461.25	**H**	**66.39**	**63.93**	**32.20**	**98.59**	**96.13**					**X/F**
2483.50	H	24.35	18.51	32.17	56.52	50.68	74.00	54.00	-17.48	-3.32	X/E
4924.15	H	46.75	39.58	6.59	53.34	46.17	74.00	54.00	-20.66	-7.83	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

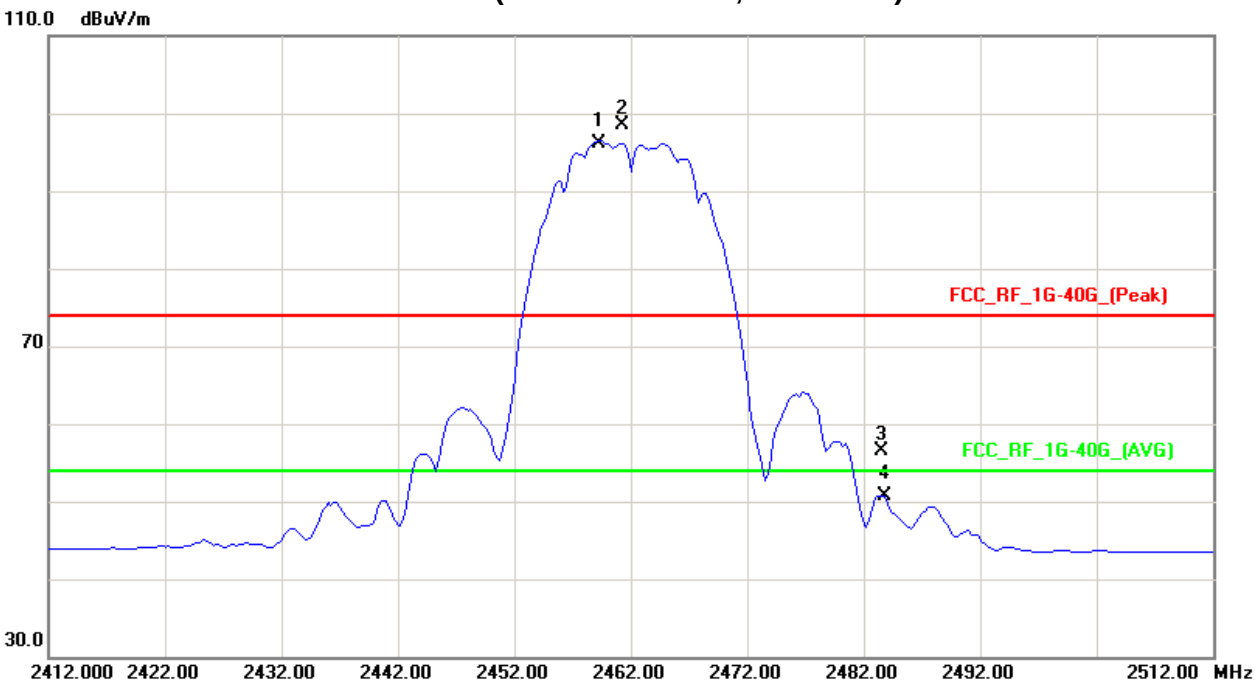
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

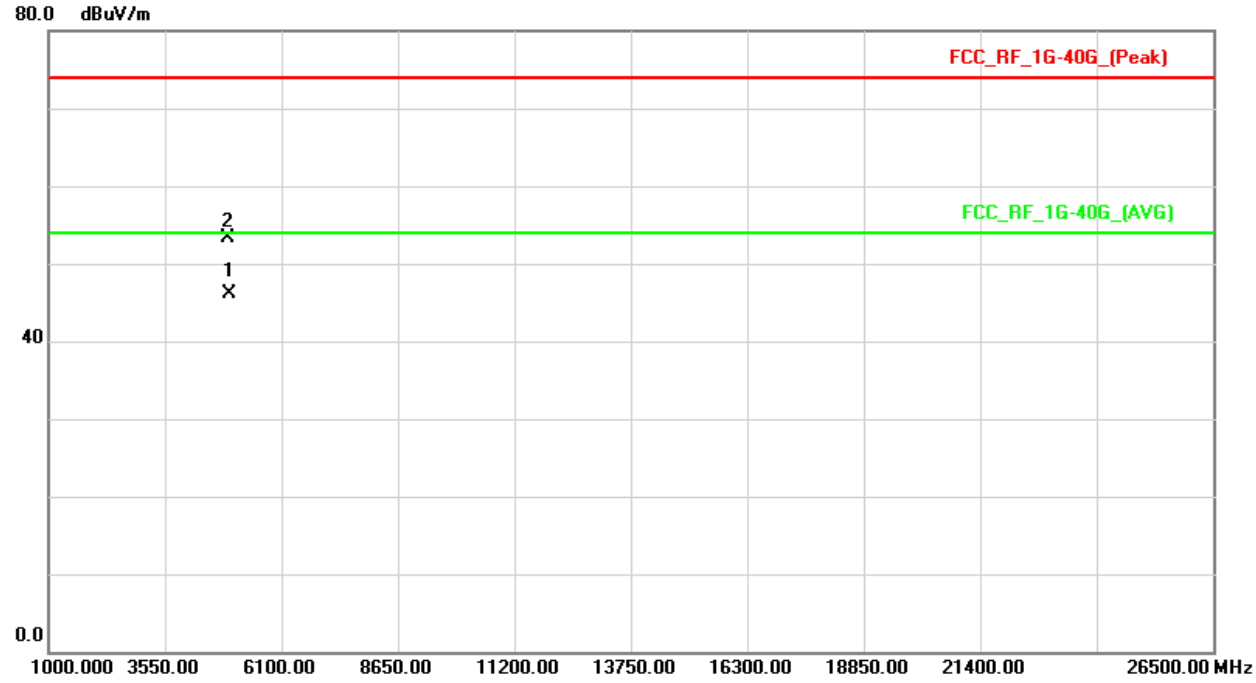
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH11 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.10	11.54	32.28	53.38	43.82	74.00	54.00	-20.62	-10.18	X/E
2410.55	**V**	**61.68**	**52.76**	**32.26**	**93.94**	**85.02**					**X/F**
4824.35	V	44.24	35.30	6.19	50.43	41.49	74.00	54.00	-23.57	-12.51	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

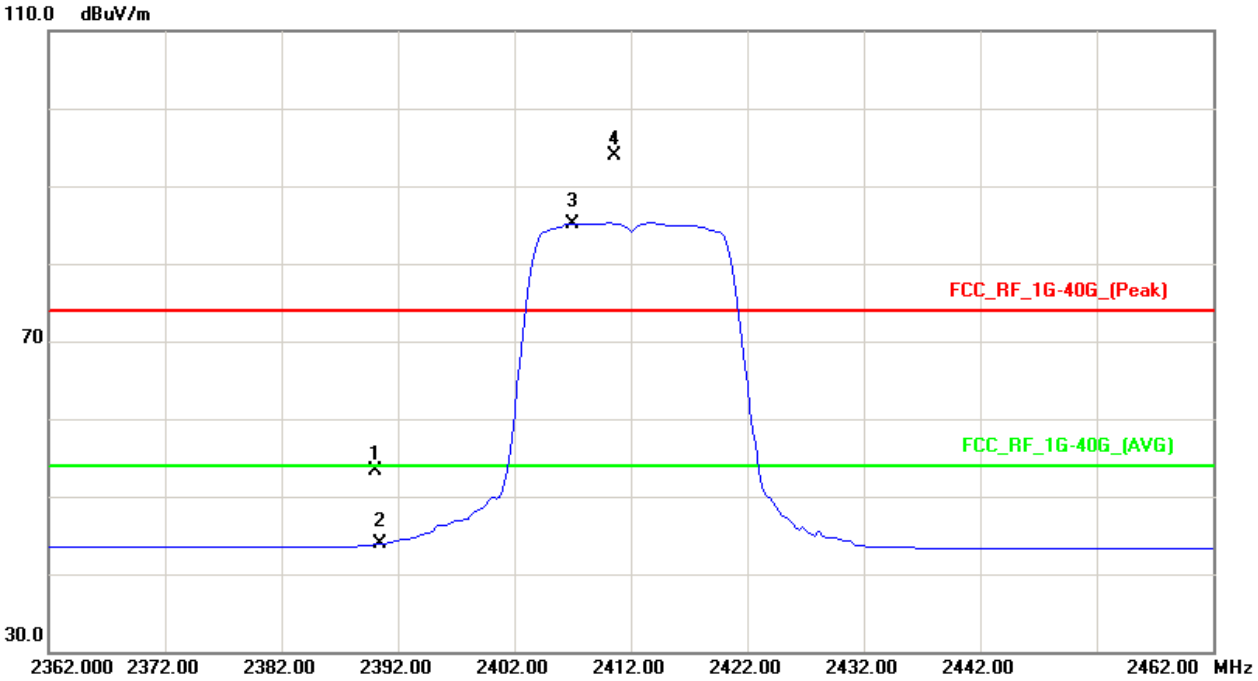
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

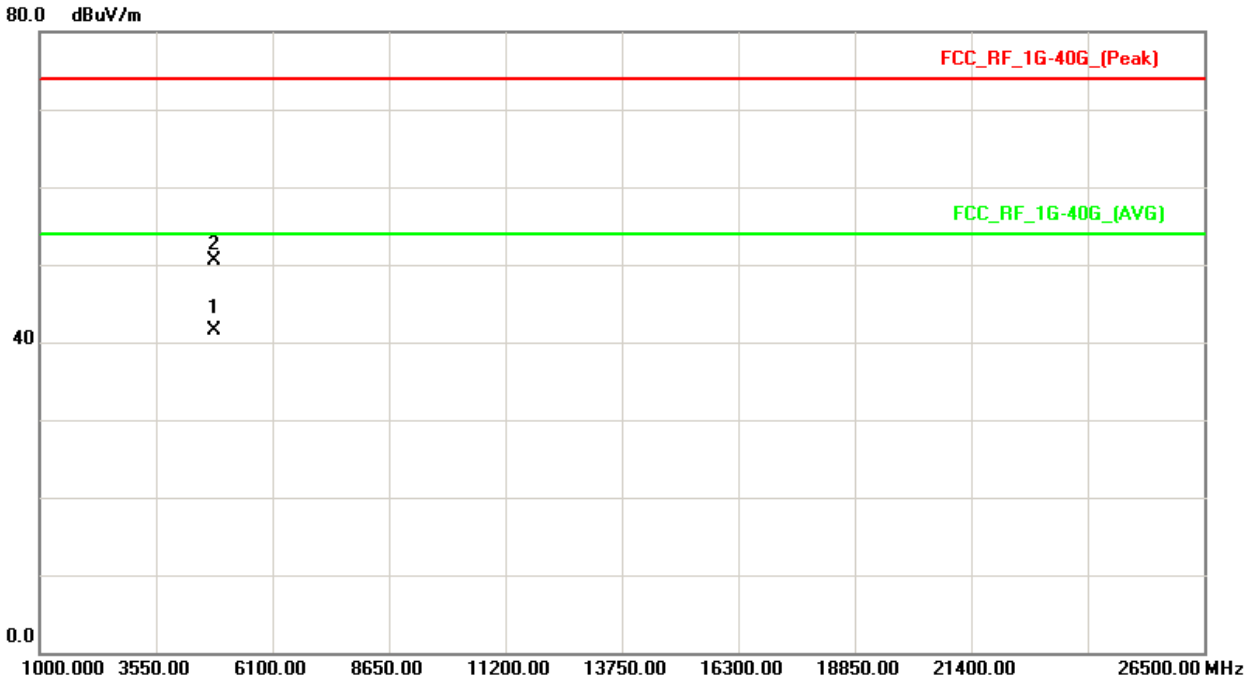
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH01 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	24.87	13.73	32.28	57.15	46.01	74.00	54.00	-16.85	-7.99	X/E
2411.00	**H**	**66.35**	**59.75**	**32.26**	**98.61**	**92.01**					**X/F**
4824.14	H	41.24	28.35	6.19	47.43	34.54	74.00	54.00	-26.57	-19.46	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

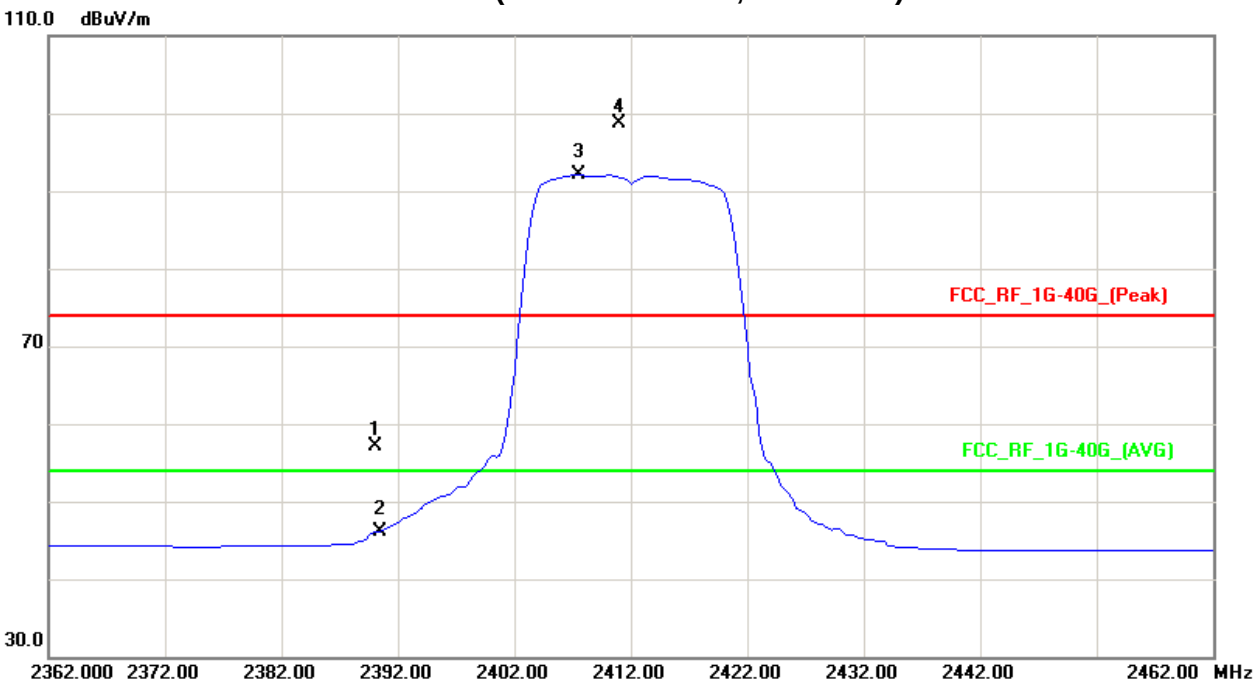
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

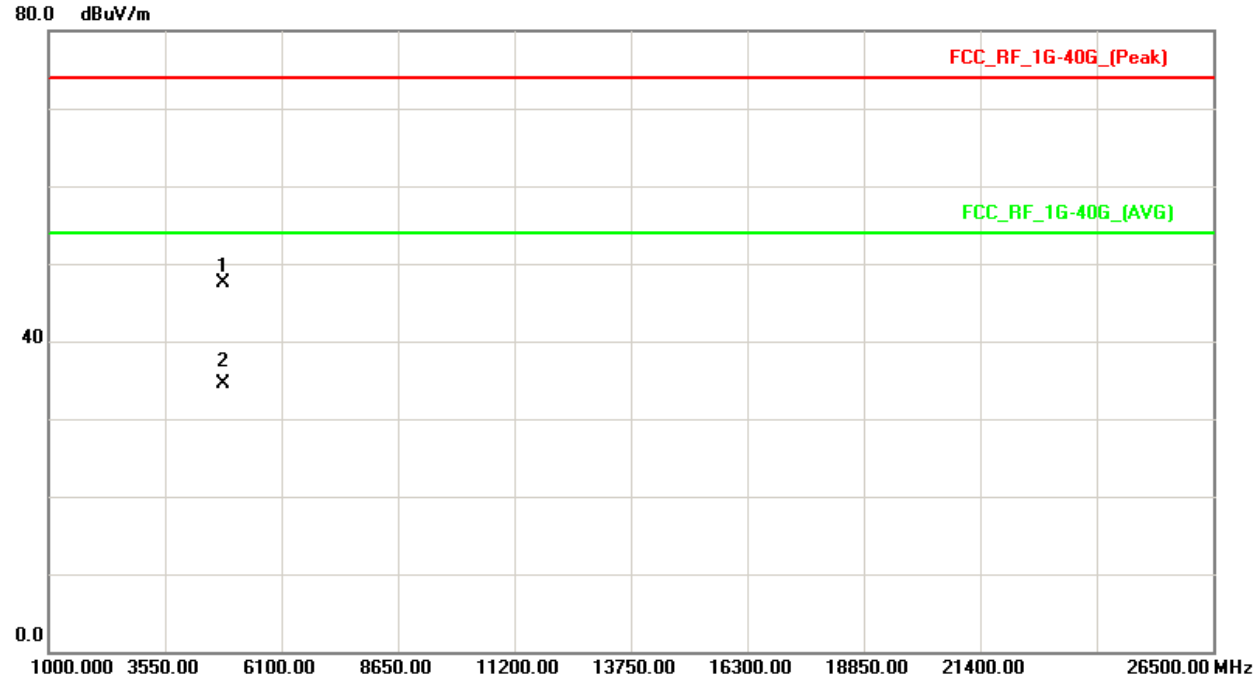
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH01 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE 2437MHz-		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2435.75	**V**	**62.58**	**52.72**	**32.23**	**94.81**	**84.95**					**X/F**
4874.22	V	43.47	36.36	6.39	49.86	42.75	74.00	54.00	-24.14	-11.25	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

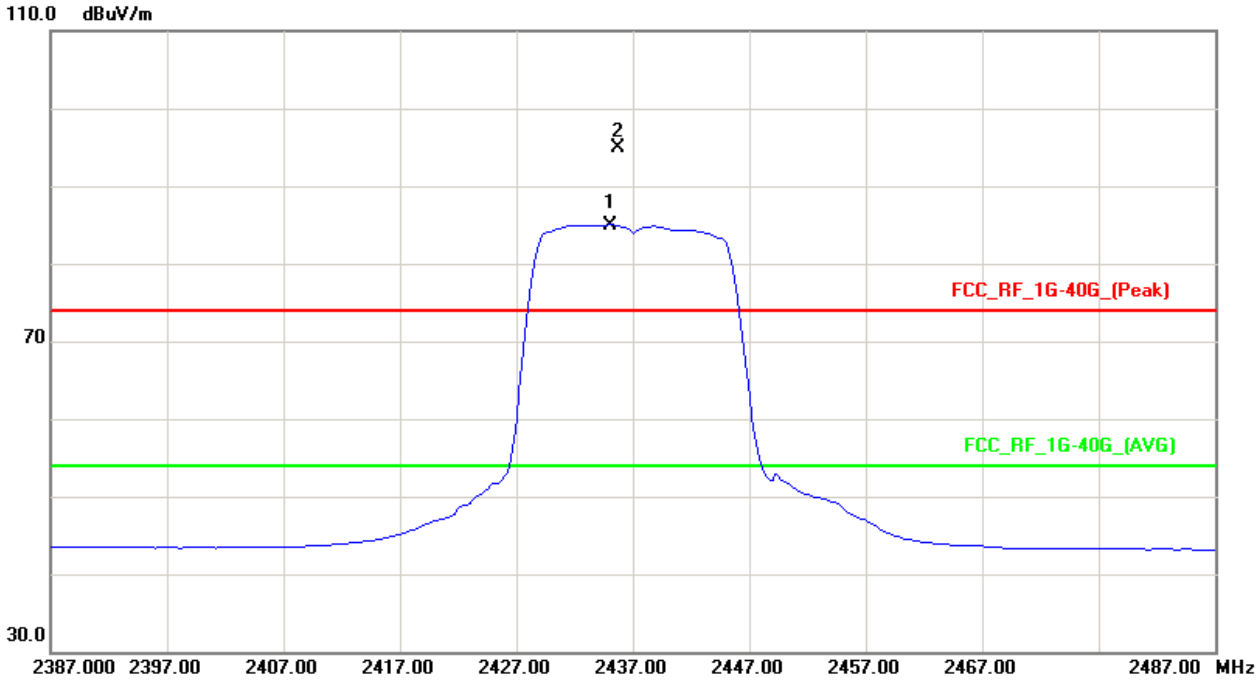
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

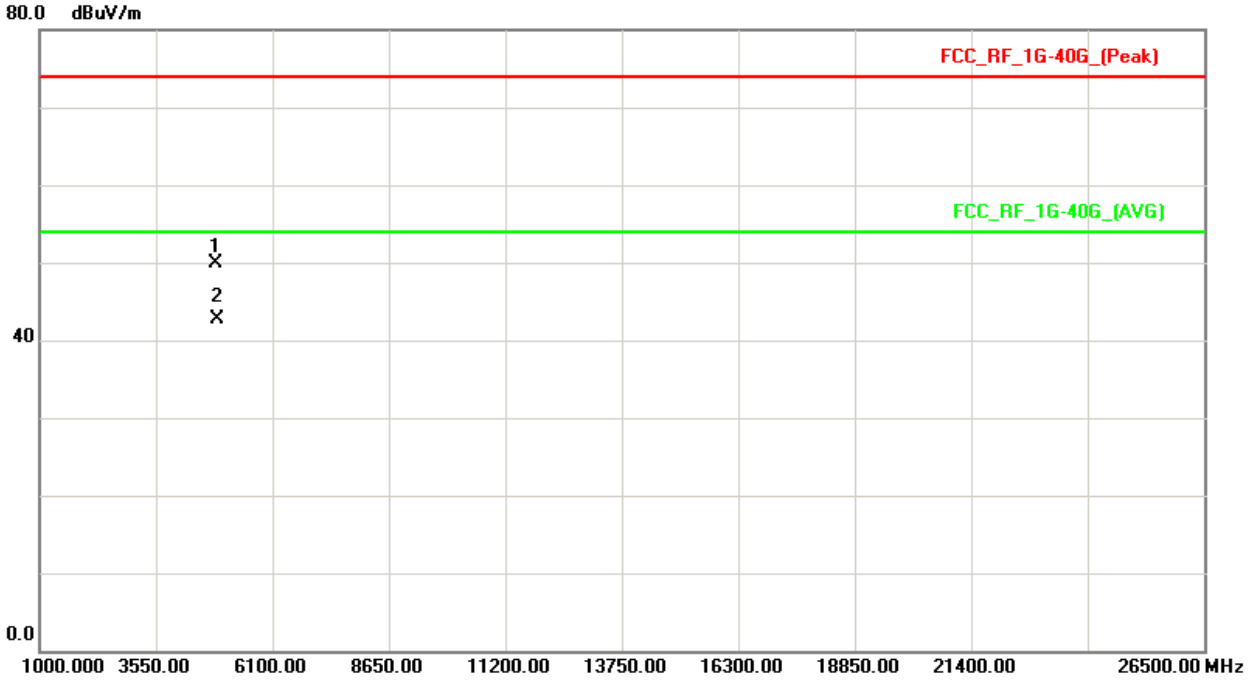
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH06 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE 2437MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2433.75	**H**	**65.24**	**58.04**	**32.23**	**97.47**	**90.27**					**X/F**
4874.75	H	41.05	30.14	6.39	47.44	36.53	74.00	54.00	-26.56	-17.47	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

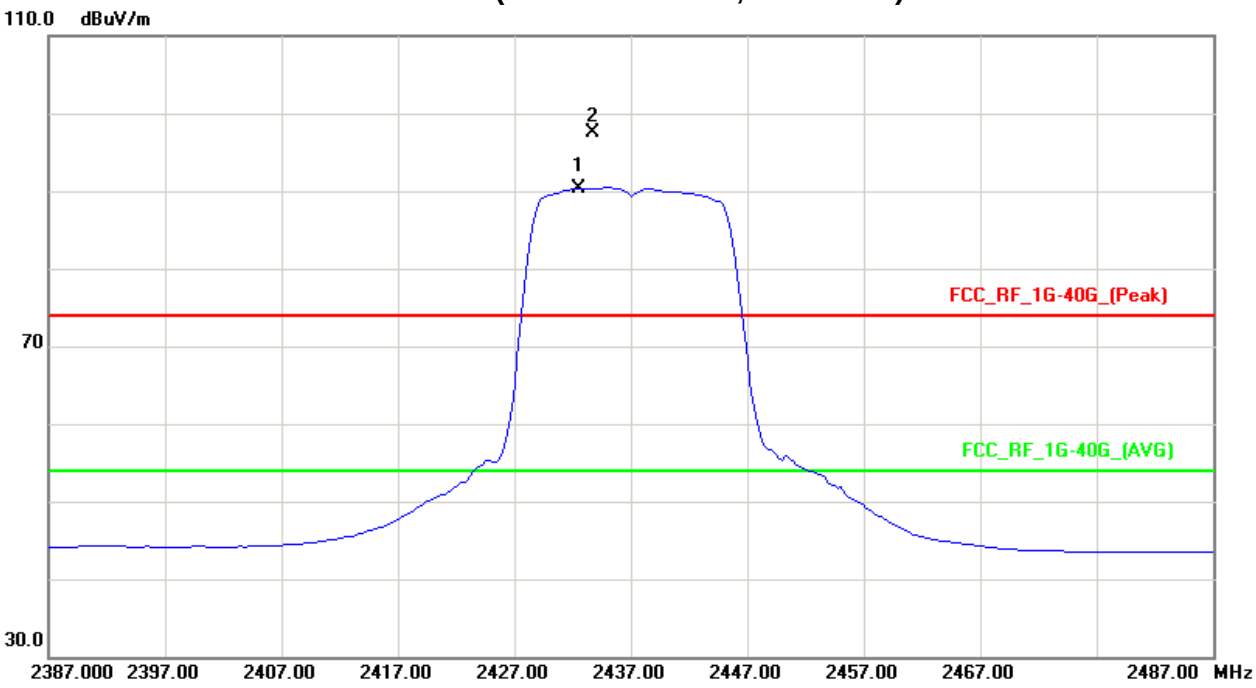
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

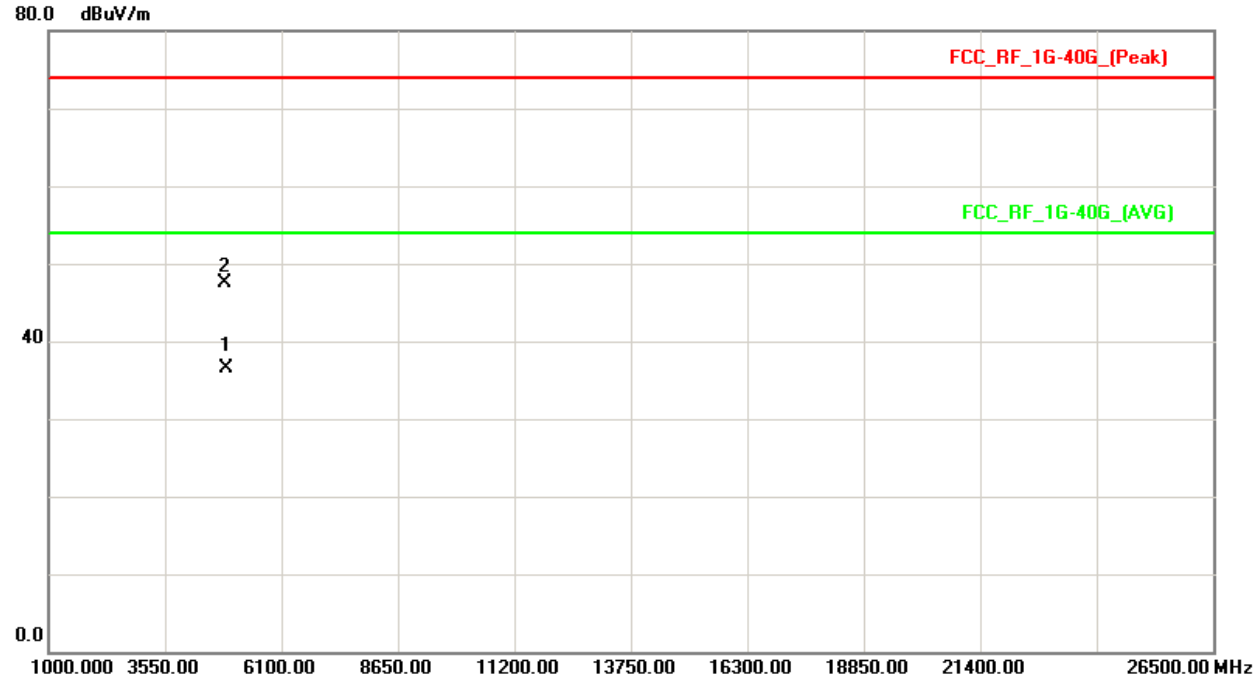
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH06 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2460.25	**V**	**61.34**	**52.66**	**32.20**	**93.54**	**84.86**					**X/F**
2483.50	V	30.85	13.75	32.17	63.02	45.92	74.00	54.00	-10.98	-8.08	X/E
4924.35	V	43.54	36.24	6.59	50.13	42.83	74.00	54.00	-23.87	-11.17	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

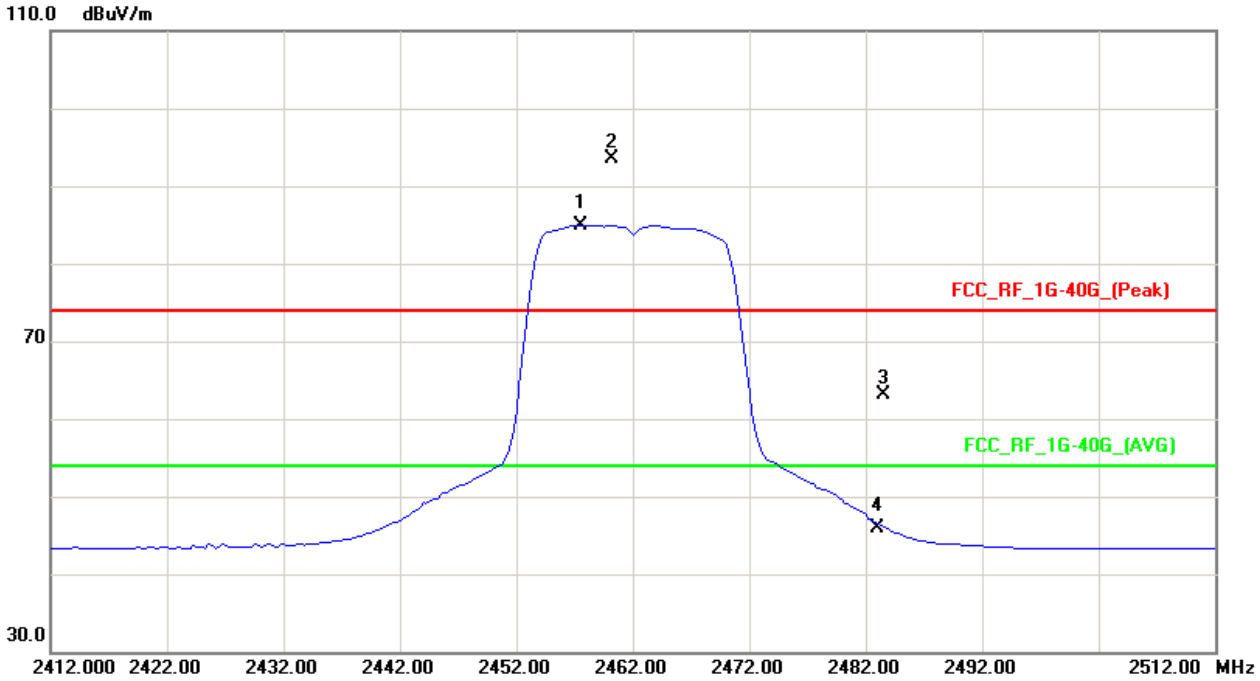
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

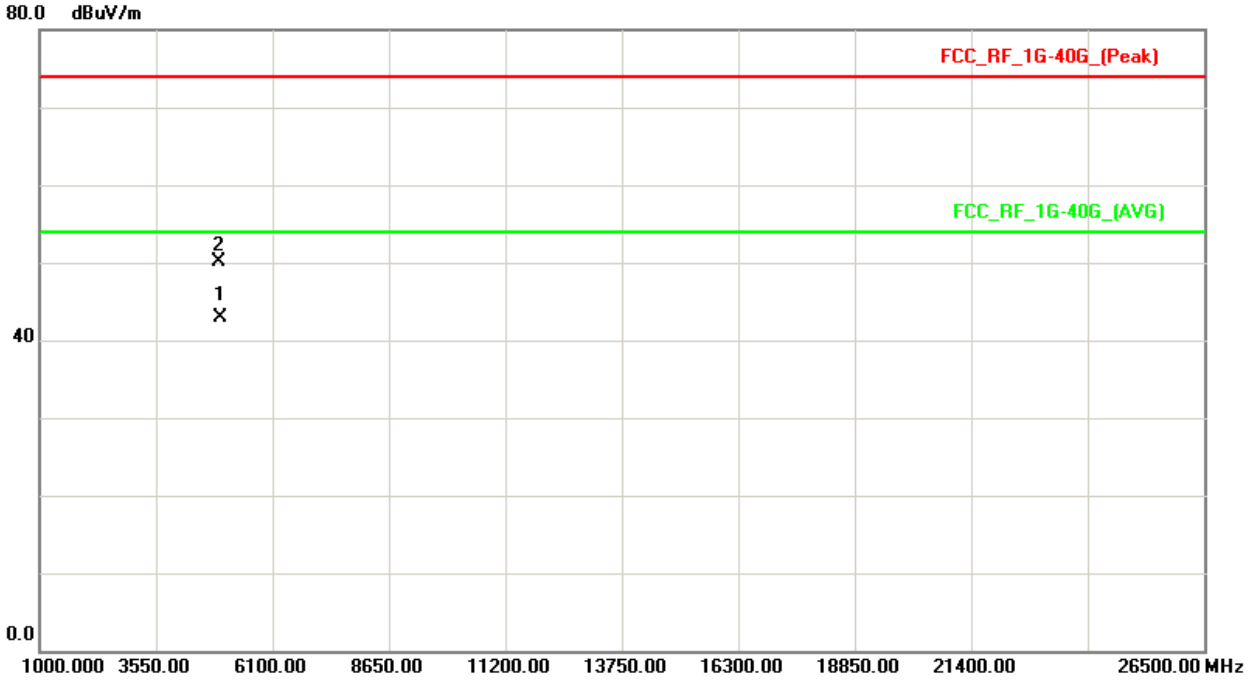
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH11 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2455.30	**H**	**63.47**	**57.36**	**32.21**	**95.68**	**89.57**					**X/F**
2483.50	H	34.62	17.55	32.17	66.79	49.72	74.00	54.00	-7.21	-4.28	X/E
4924.55	H	39.35	28.94	6.59	45.94	35.53	74.00	54.00	-28.06	-18.47	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

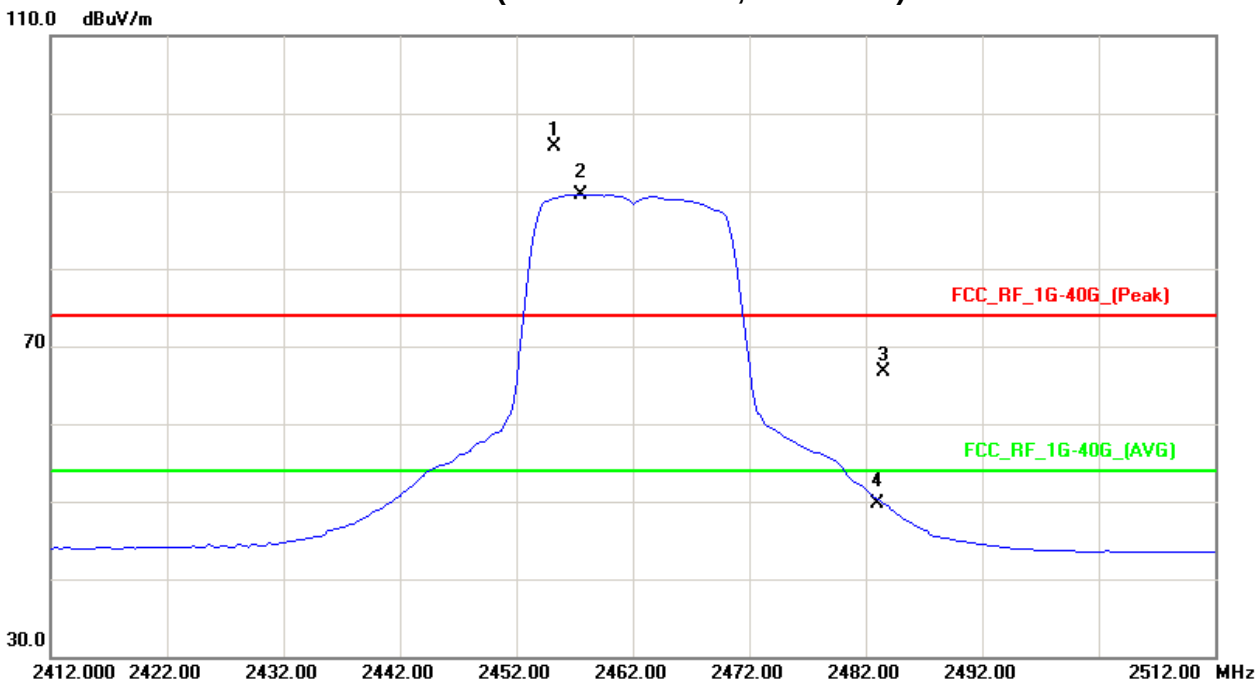
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

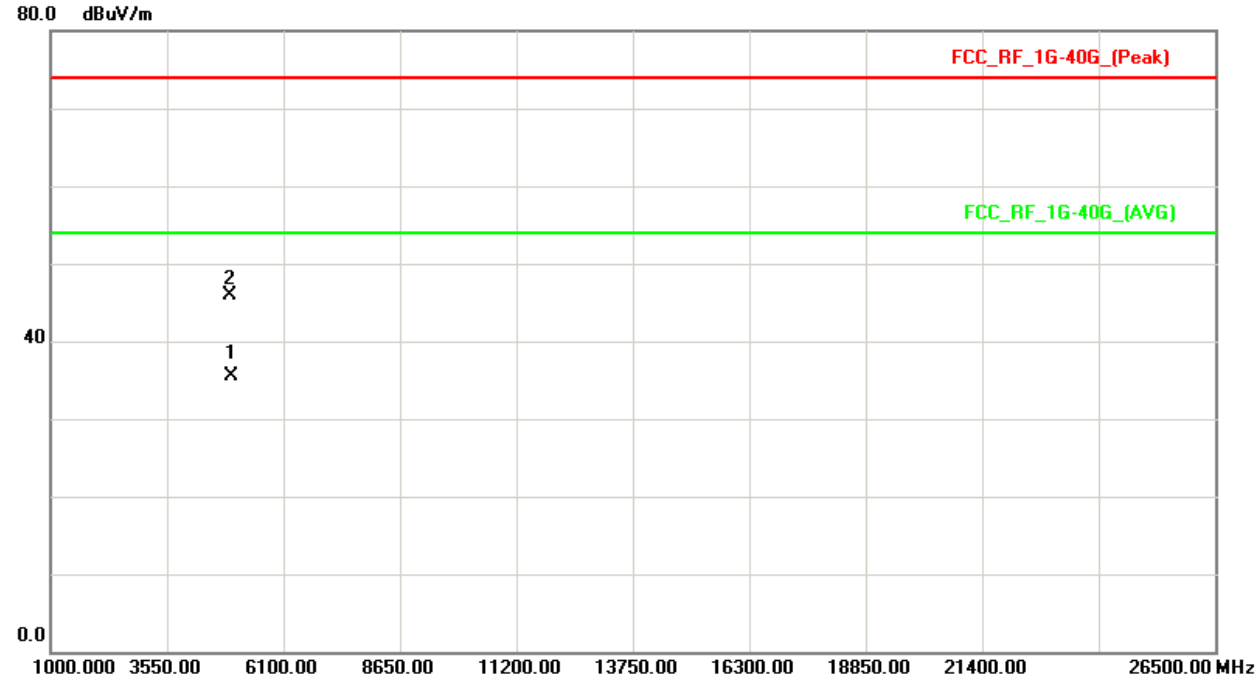
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH11 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-20M MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.05	11.50	32.28	54.33	43.78	74.00	54.00	-19.67	-10.22	X/E
2410.36	**V**	**61.58**	**51.39**	**32.26**	**93.84**	**83.65**					**X/F**
4824.35	V	43.24	36.57	6.19	49.43	42.76	74.00	54.00	-24.57	-11.24	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

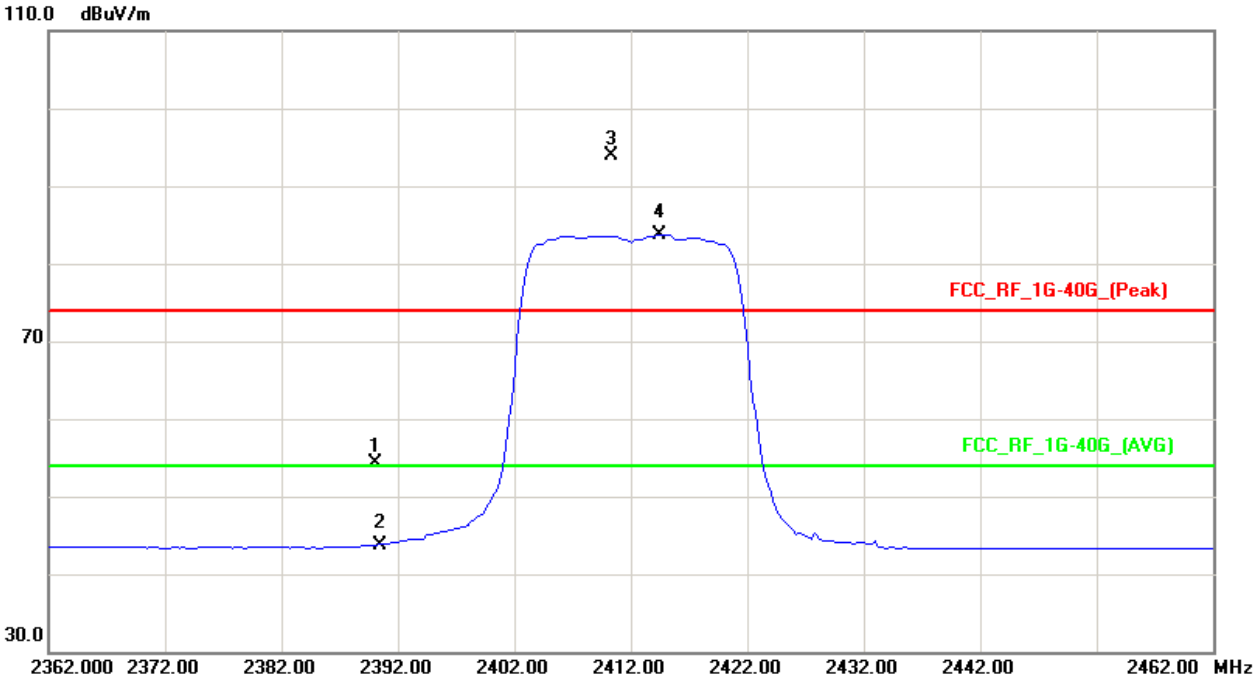
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

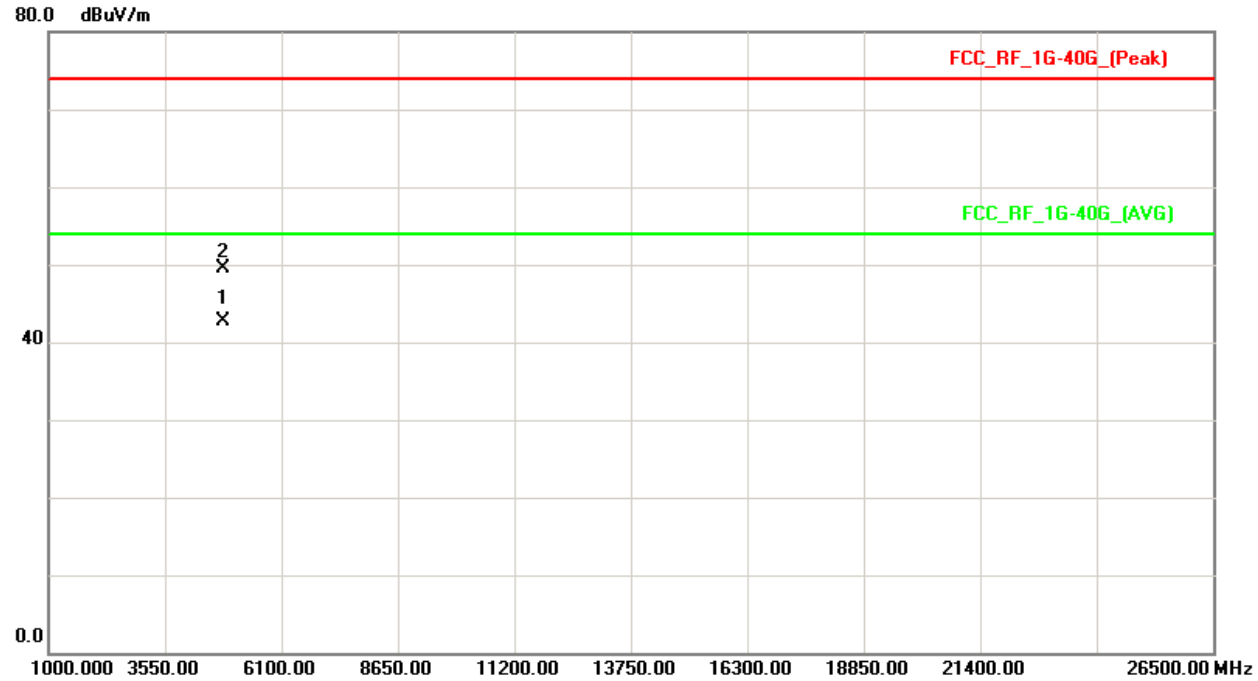
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH01 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-20M MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	22.54	12.77	32.28	54.82	45.05	74.00	54.00	-19.18	-8.95	X/E
2406.75	**H**	**64.14**	**56.95**	**32.26**	**96.40**	**89.21**					**X/F**
4824.37	H	39.35	28.24	6.19	45.54	34.43	74.00	54.00	-28.46	-19.57	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

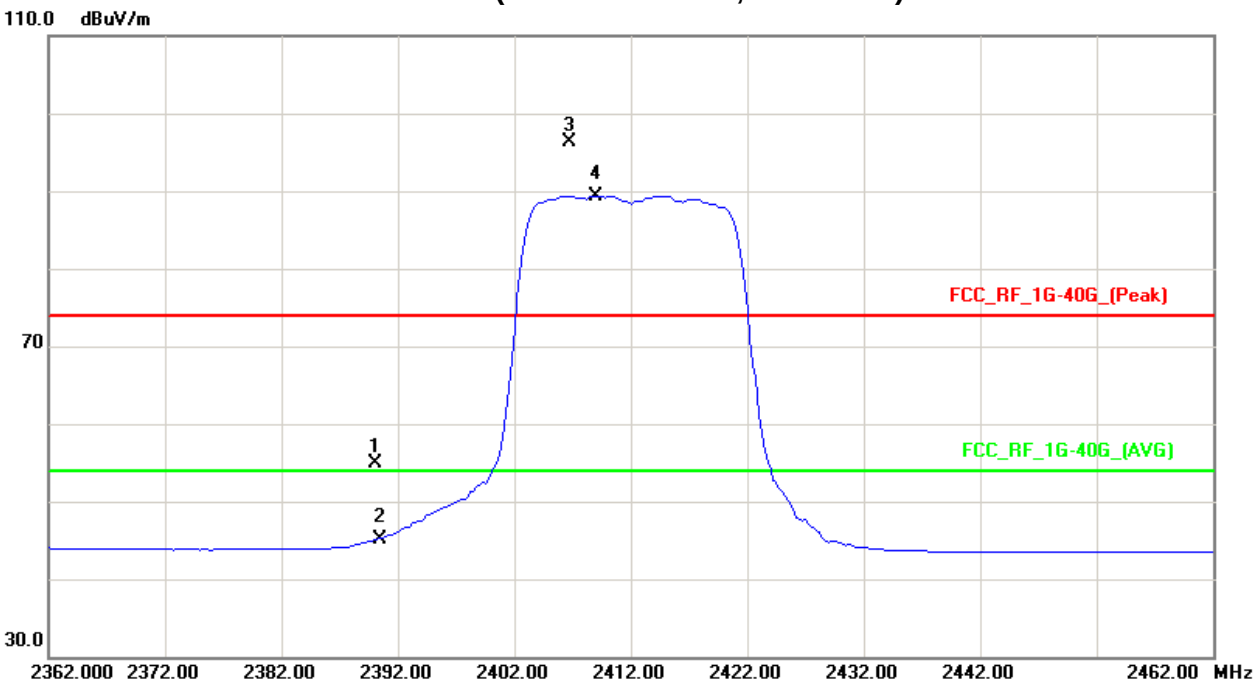
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

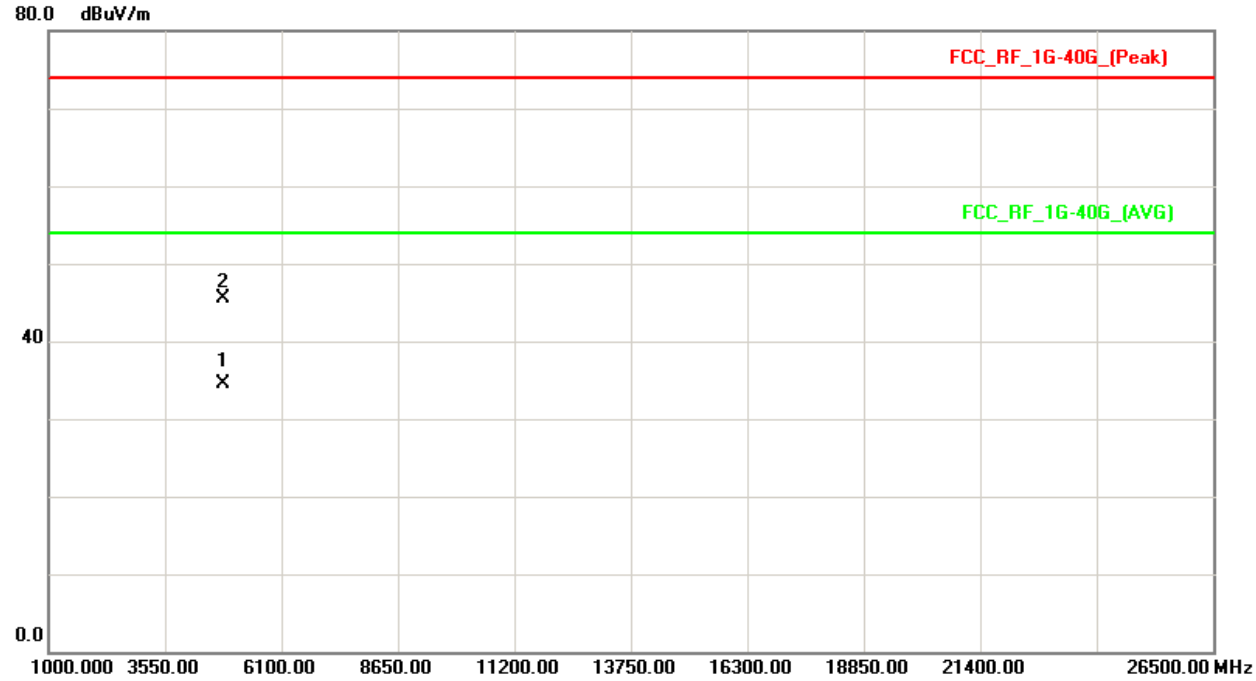
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH01 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-20M MODE 2437MHz-		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2434.00	**V**	**60.57**	**50.32**	**32.23**	**92.80**	**82.55**					**X/F**
4874.15	V	41.84	35.54	6.39	48.23	41.93	74.00	54.00	-25.77	-12.07	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

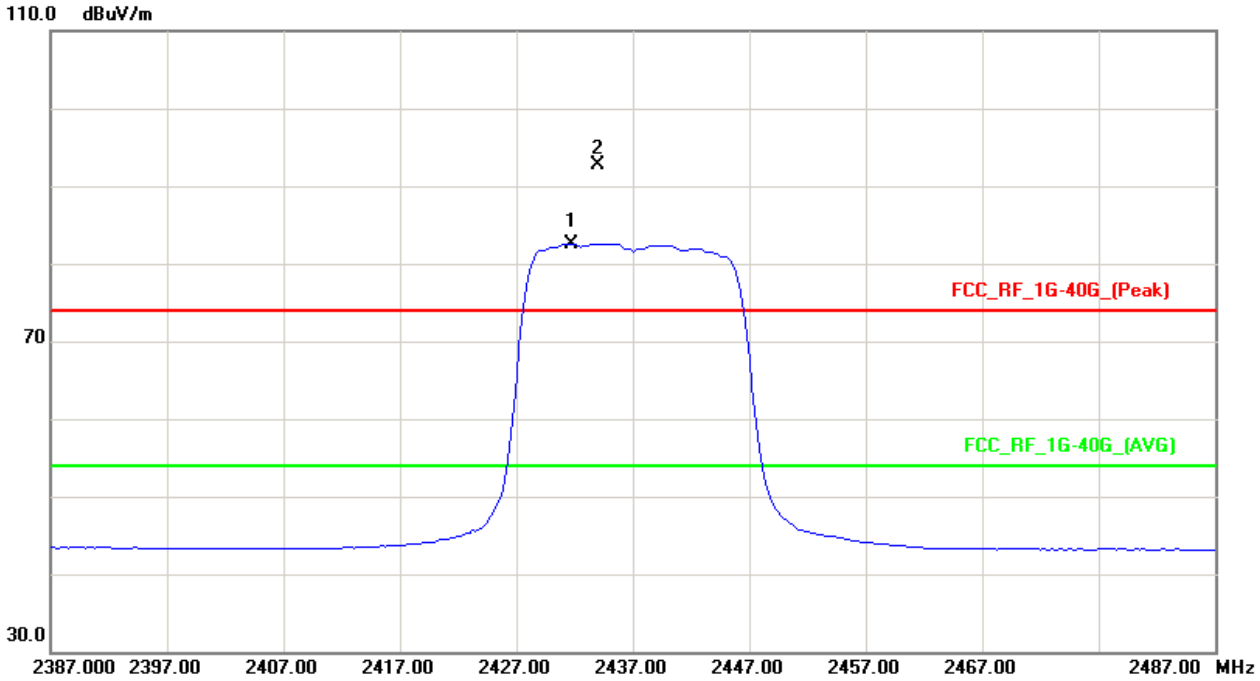
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

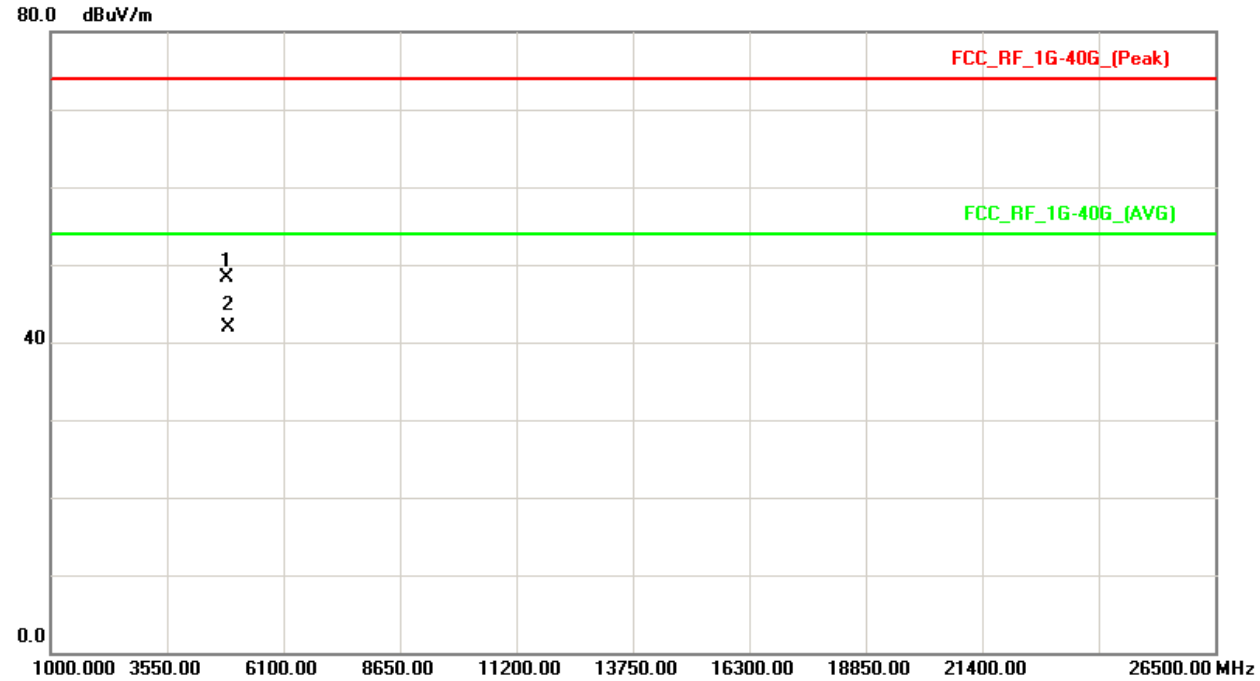
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH06 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-20M MODE 2437MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2434.88	**H**	**64.39**	**56.27**	**32.23**	**96.62**	**88.50**					**X/F**
4874.25	H	38.87	27.36	6.39	45.26	33.75	74.00	54.00	-28.74	-20.25	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

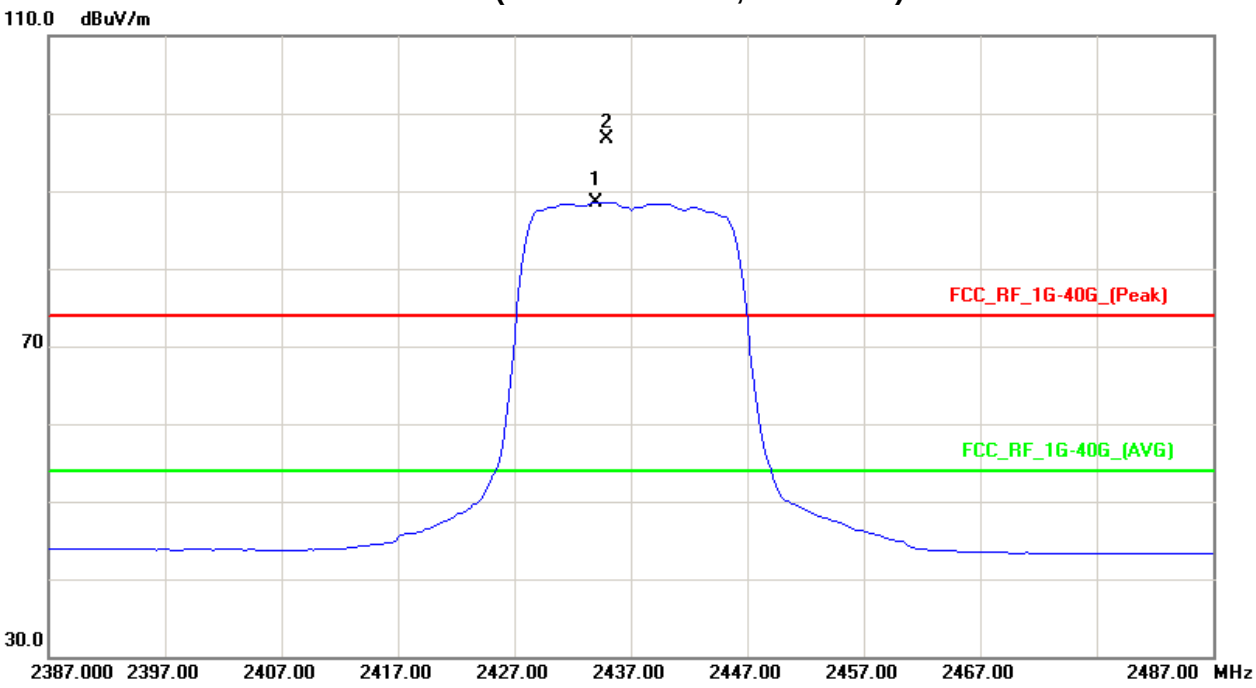
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

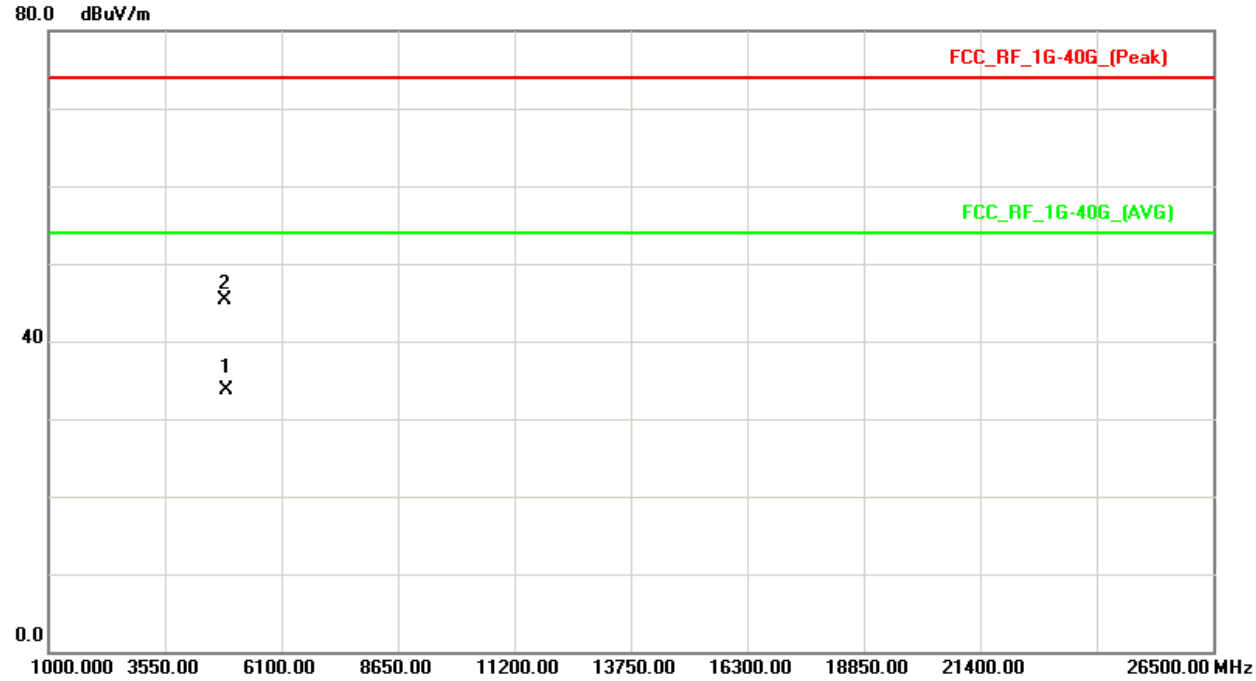
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH06 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-20M MODE 2462MHz-		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2458.75	**V**	**60.54**	**50.17**	**32.20**	**92.74**	**82.37**					**X/F**
2483.50	V	22.65	13.21	32.17	54.82	45.38	74.00	54.00	-19.18	-8.62	X/E
4924.55	V	42.65	35.22	6.59	49.24	41.81	74.00	54.00	-24.76	-12.19	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

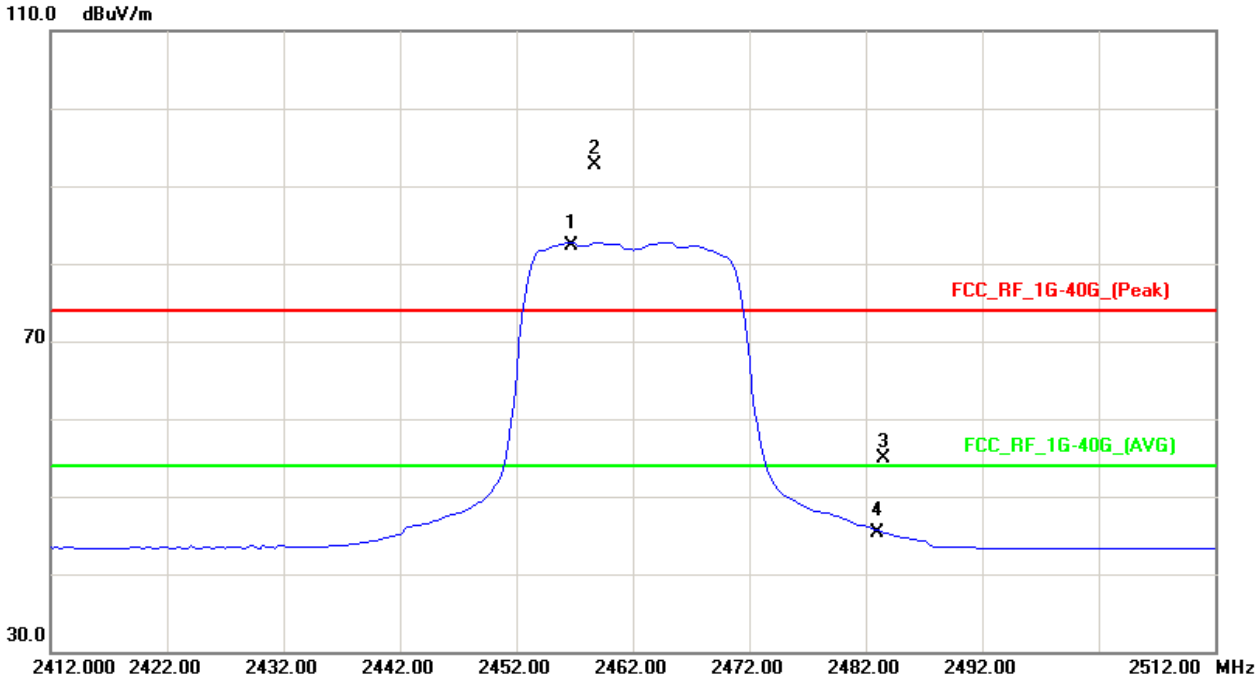
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

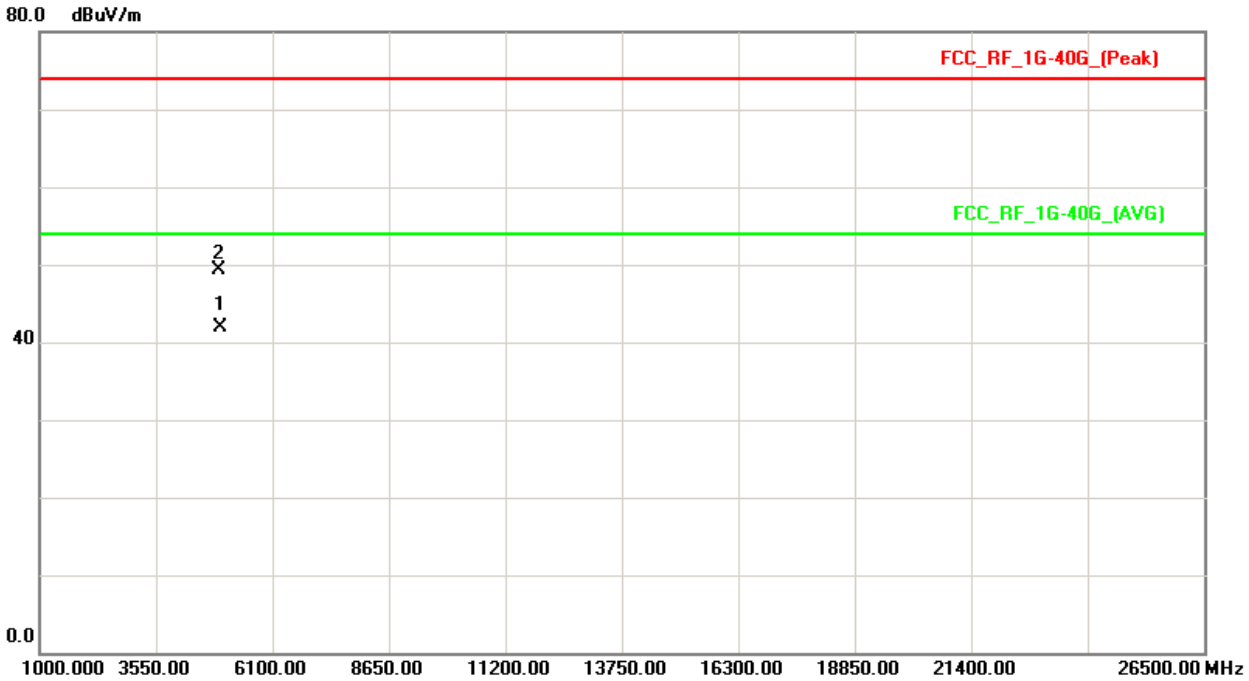
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH11 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-20M MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2457.75	**H**	**64.06**	**55.49**	**32.20**	**96.26**	**87.69**					**X/F**
2483.50	H	27.14	15.00	32.17	59.31	47.17	74.00	54.00	-14.69	-6.83	X/E
4924.33	H	42.57	35.33	6.59	49.16	41.92	74.00	54.00	-24.84	-12.08	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

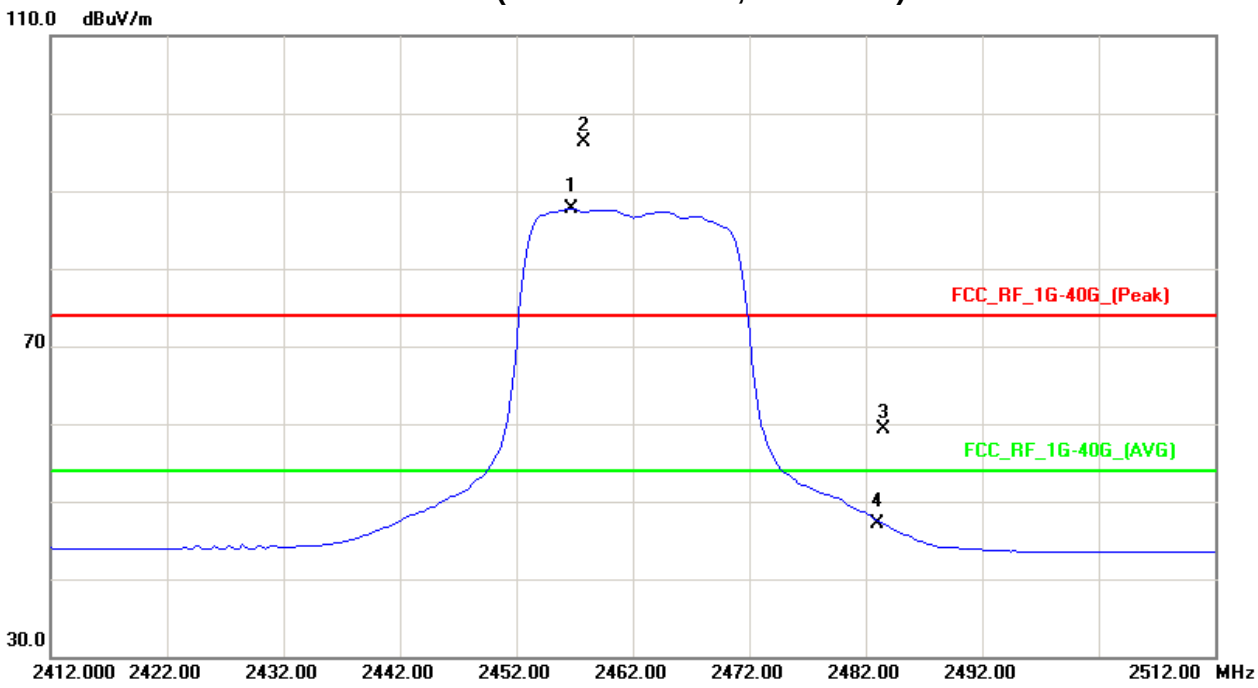
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

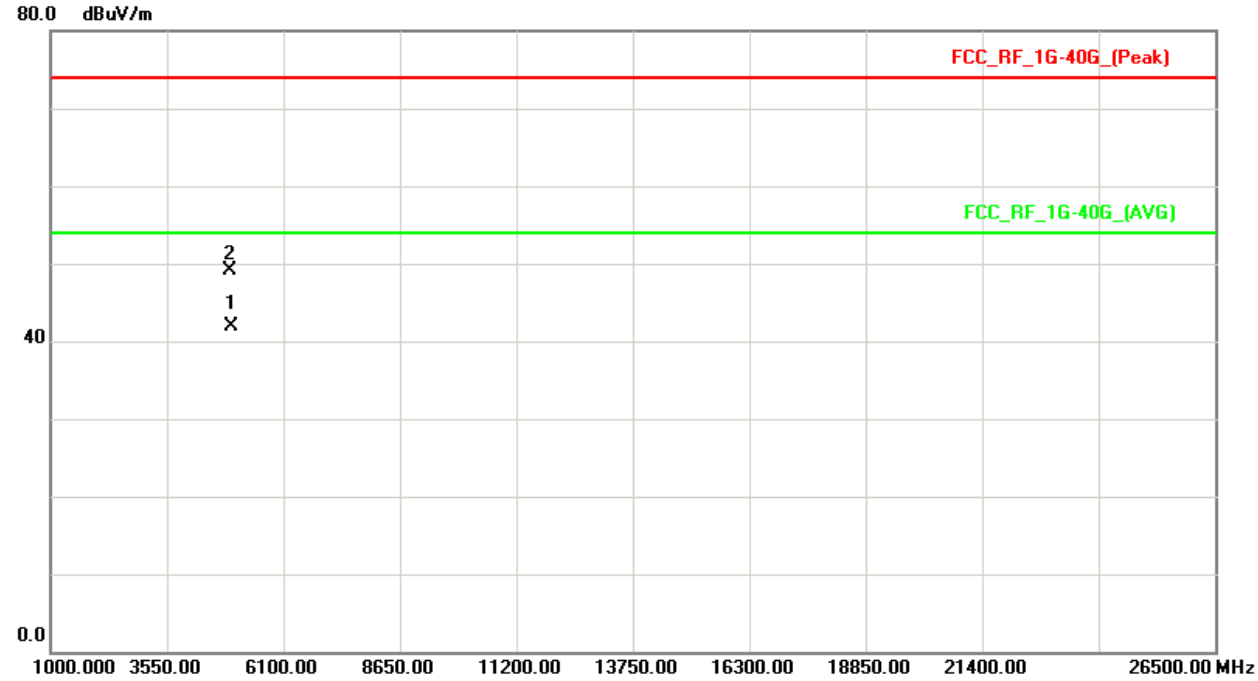
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH11 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-40M MODE 2422MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.23	11.91	32.28	54.51	44.19	74.00	54.00	-19.49	-9.81	X/E
2431.50	**V**	**58.14**	**47.15**	**32.24**	**90.38**	**79.39**					**X/F**
4845.68	V	42.35	35.22	6.28	48.63	41.50	74.00	54.00	-25.37	-12.50	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

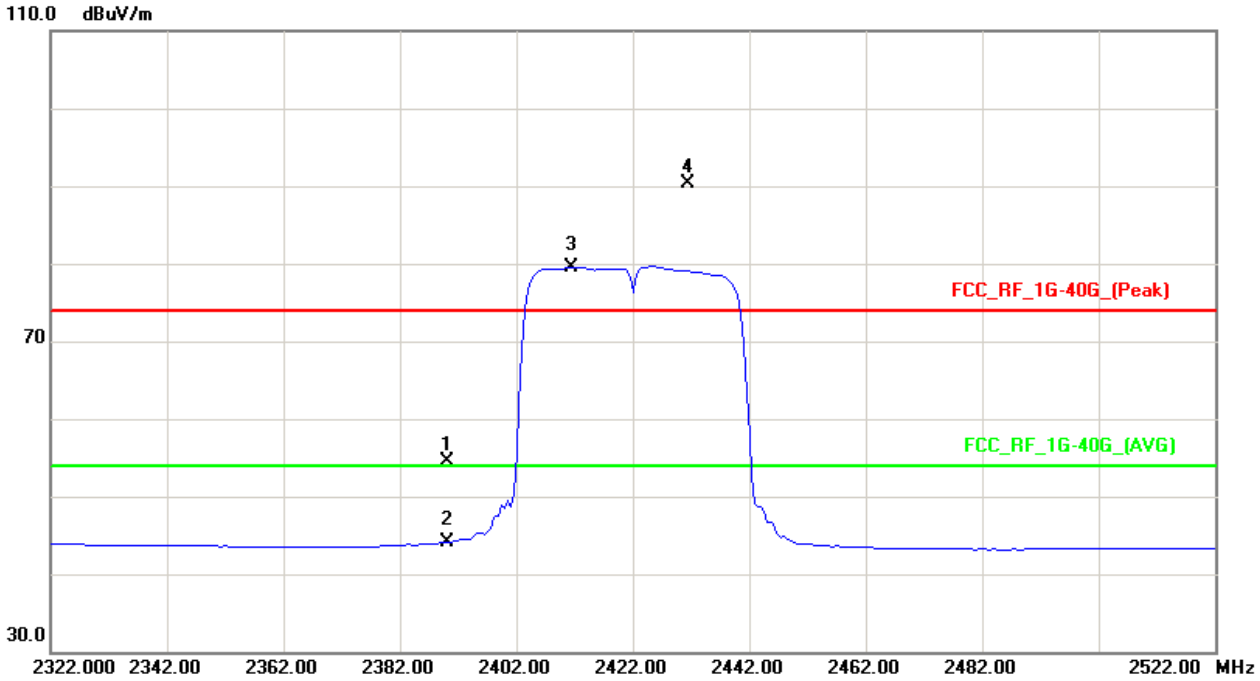
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

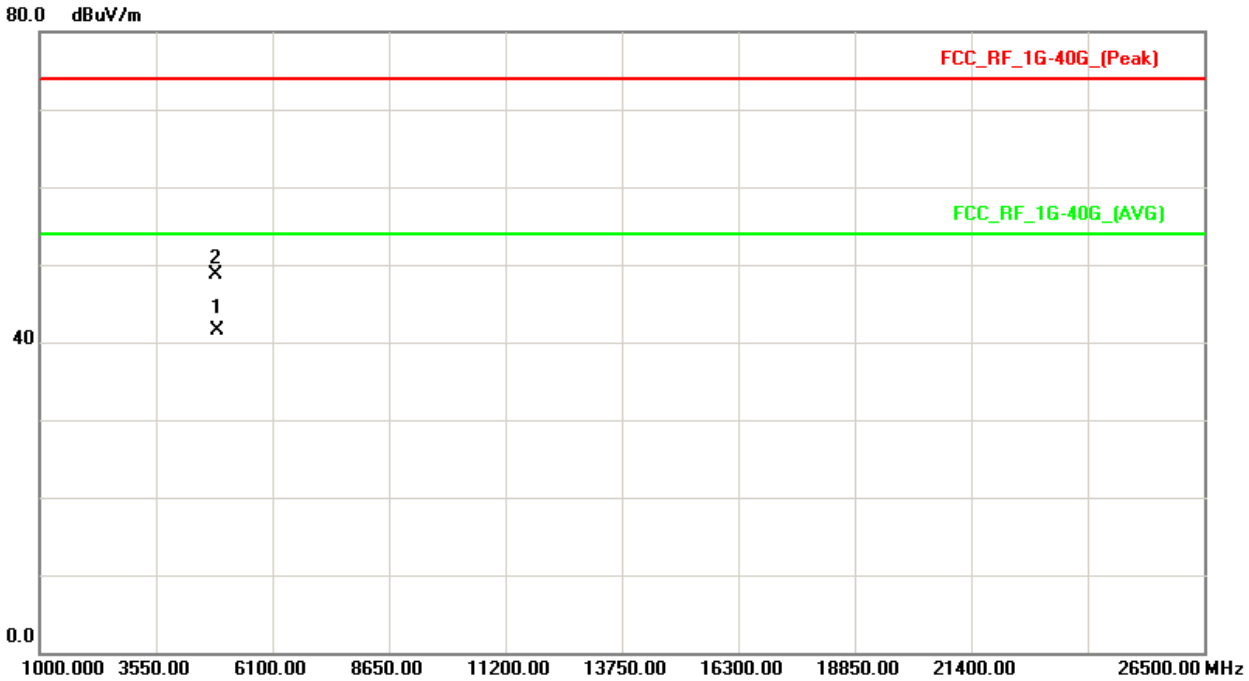
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH03 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-40M MODE 2422MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	23.24	14.35	32.28	55.52	46.63	74.00	54.00	-18.48	-7.37	X/E
2411.85	**H**	**62.35**	**53.99**	**32.26**	**94.61**	**86.25**					**X/F**
4846.20	H	42.67	35.58	6.28	48.95	41.86	74.00	54.00	-25.05	-12.14	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

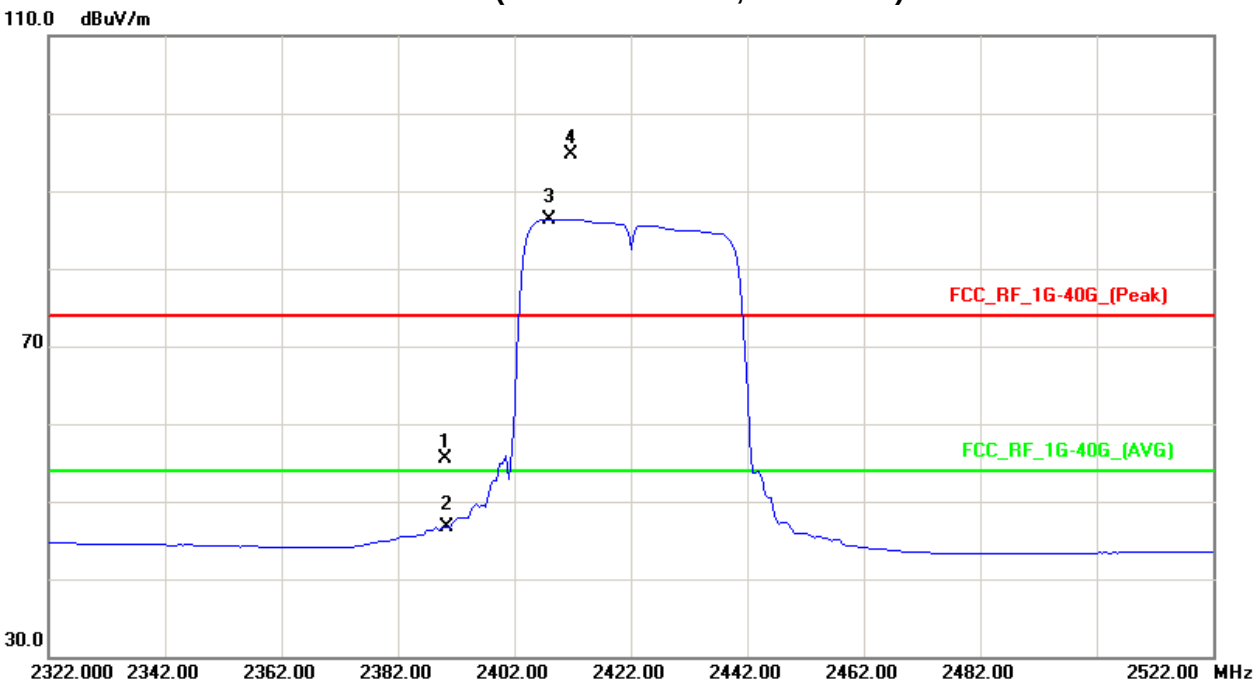
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

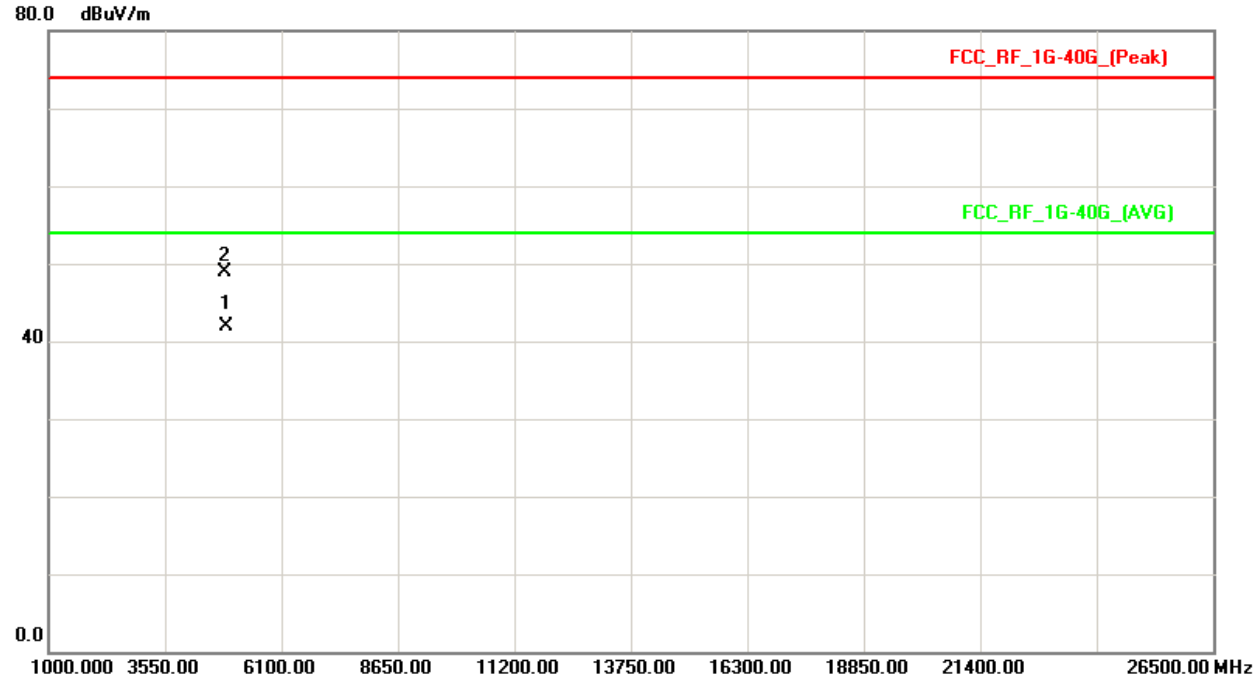
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH03 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-40M MODE 2437MHz-		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2427.75	**V**	**57.35**	**47.39**	**32.23**	**89.58**	**79.62**					**X/F**
4875.82	V	42.39	35.85	6.40	48.79	42.25	74.00	54.00	-25.21	-11.75	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

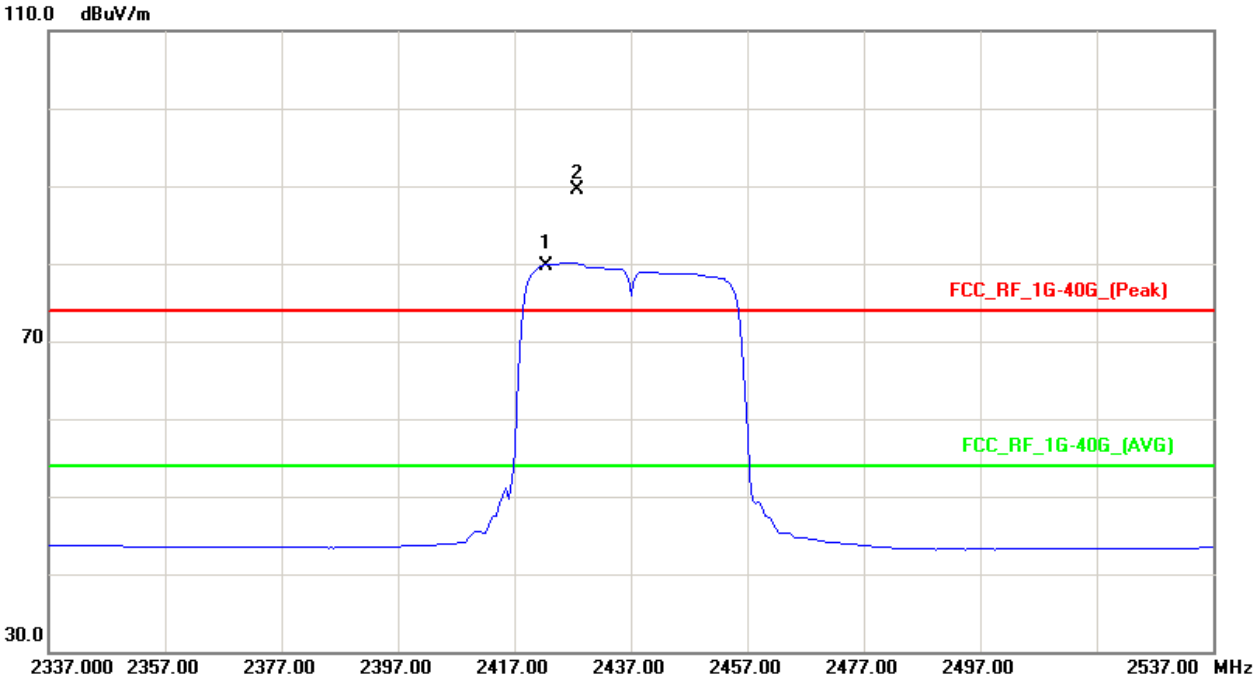
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

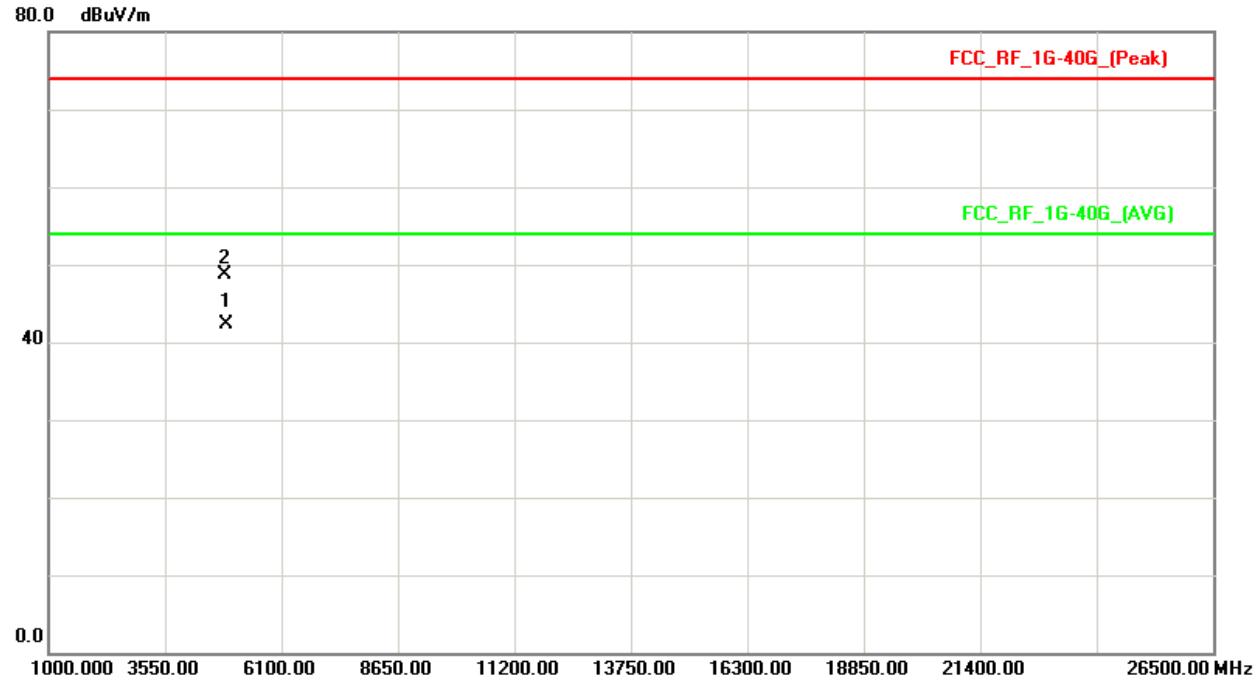
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH06 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-40M MODE 2437MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2426.35	**H**	**62.76**	**53.36**	**32.24**	**95.00**	**85.60**					**X/F**
4874.63	H	42.98	34.54	6.39	49.37	40.93	74.00	54.00	-24.63	-13.07	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

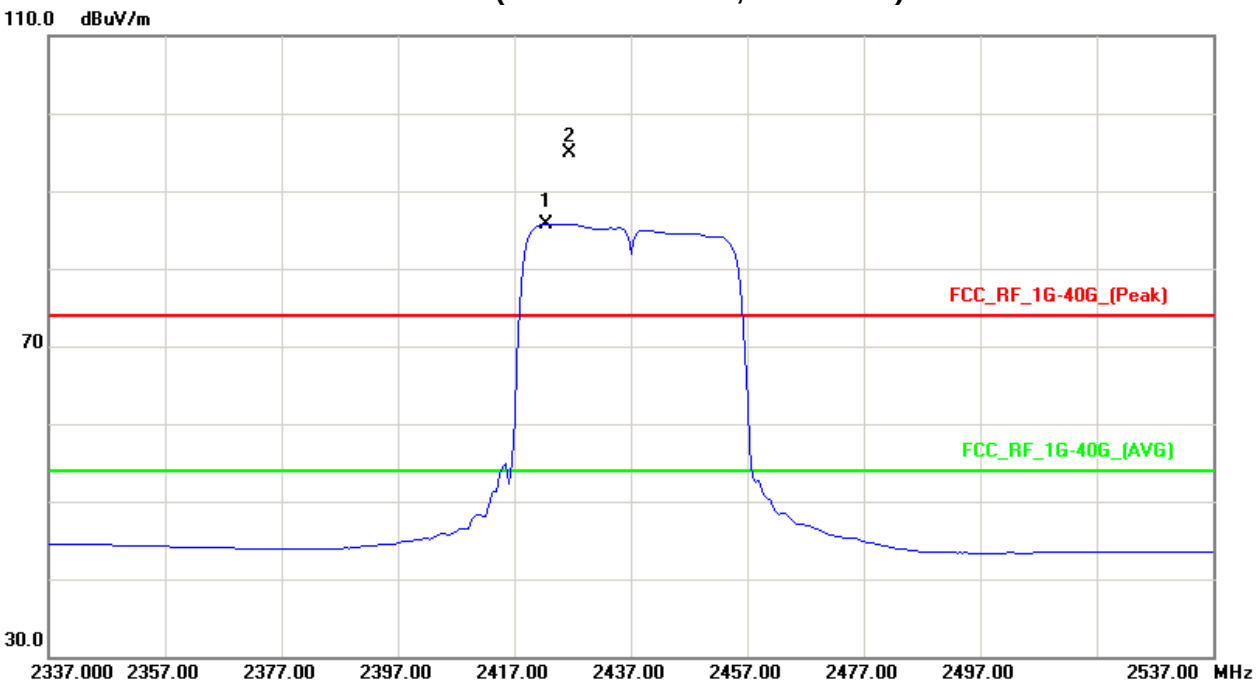
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

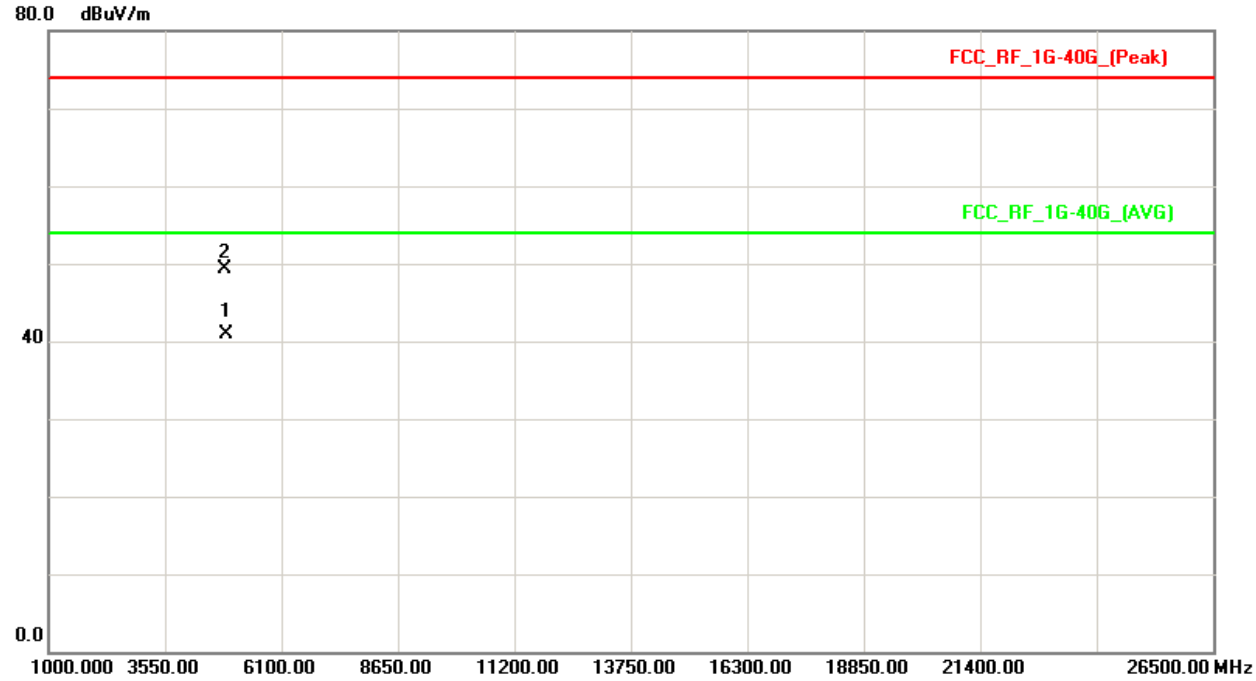
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH06 (Above 1000 MHz, Horizontal)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-40M MODE 2452MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.55	**V**	**57.35**	**46.44**	**32.23**	**89.58**	**78.67**					**X/F**
2483.50	V	22.14	11.96	32.17	54.31	44.13	74.00	54.00	-19.69	-9.87	X/E
4904.35	V	42.47	35.36	6.51	48.98	41.87	74.00	54.00	-25.02	-12.13	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

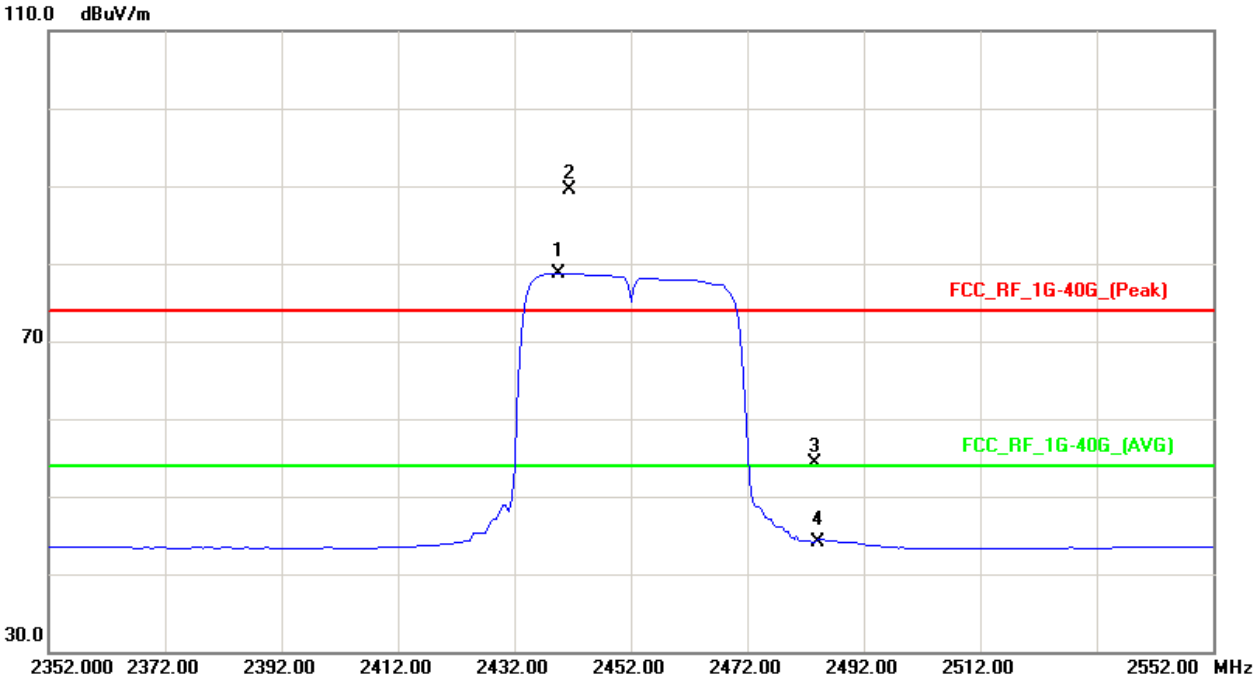
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

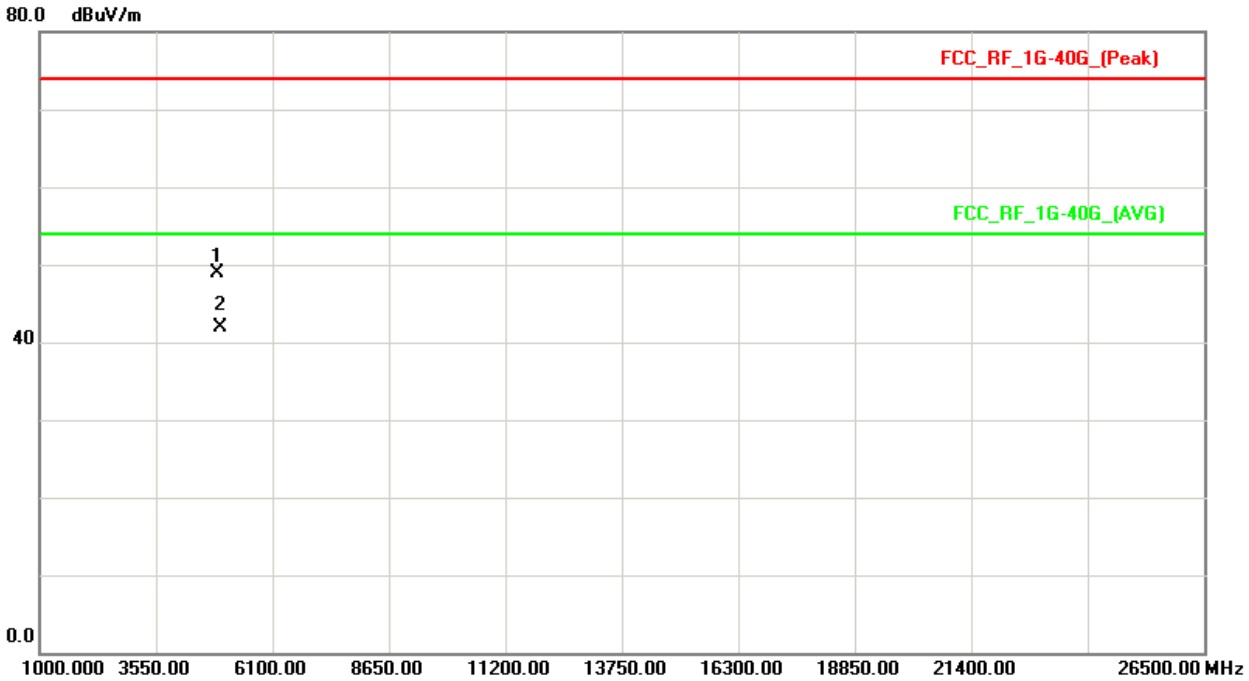
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH09 (Above 1000 MHz, Vertical)





EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	25 ℃	Relative Humidity：	51 %
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-40M MODE 2452MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.50	**H**	**61.35**	**52.69**	**32.23**	**93.58**	**84.92**					**X/F**
2483.50	H	26.14	14.83	32.17	58.31	47.00	74.00	54.00	-15.69	-7.00	X/E
4905.60	H	42.65	35.47	6.52	49.17	41.99	74.00	54.00	-24.83	-12.01	X/H

Remark：

(1) 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。

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

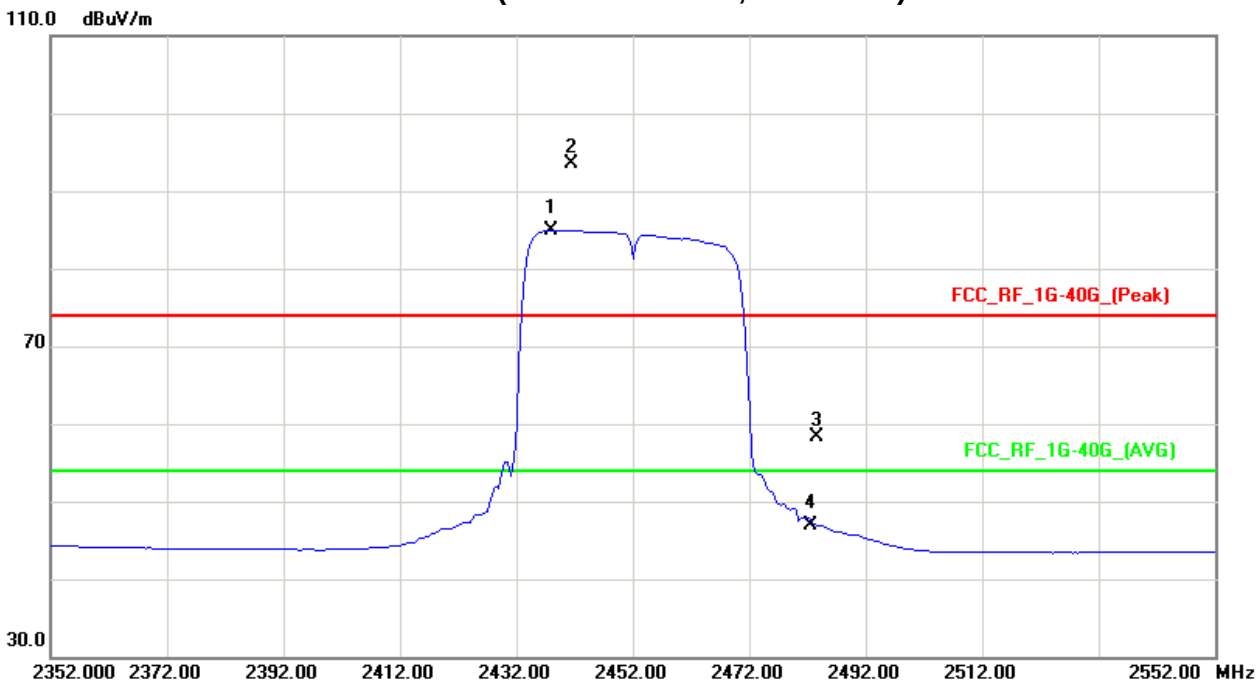
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

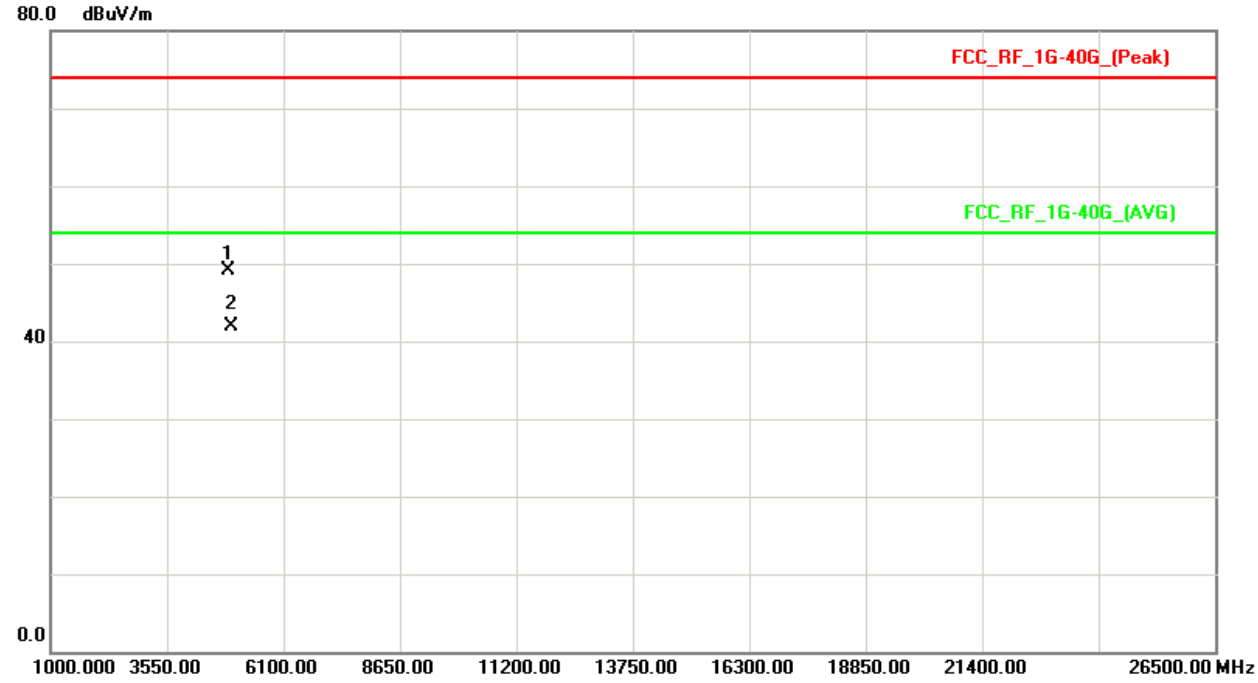
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

TX CH09 (Above 1000 MHz, Horizontal)





5. BANDWIDTH TEST

5.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.25.2012	Nov.16.2013

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of Equipment List is One Year.

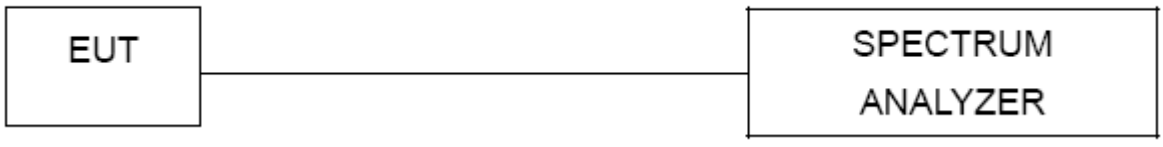
5.1.2 TEST PROCEDURE

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=300KHz, Sweep time = 2.5 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

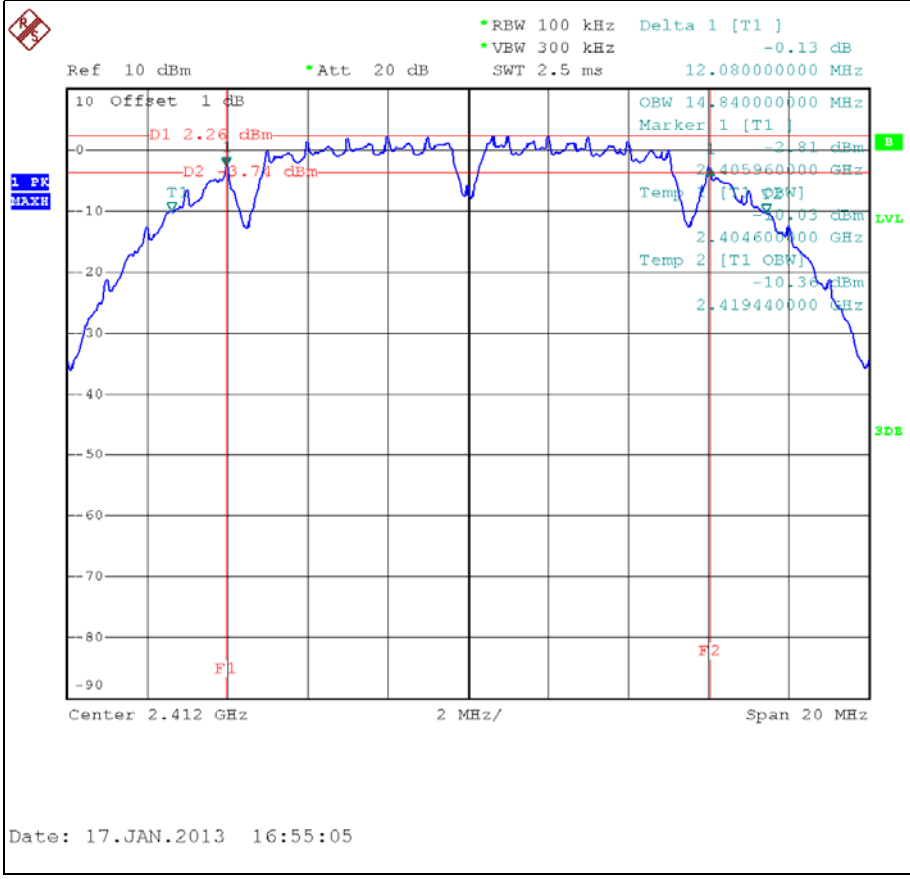
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.6 TEST RESULTS

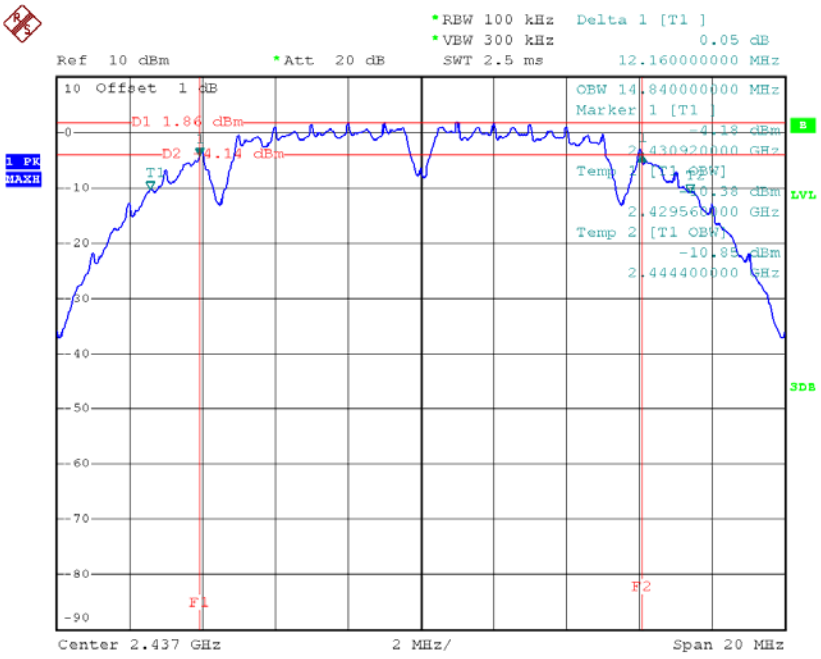
EUT：	WIFI-DISK With Power Bank	Model Name. ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	12.08	>=500KHz
CH06	2437	12.16	>=500KHz
CH11	2462	12.12	>=500KHz

TX CH 01

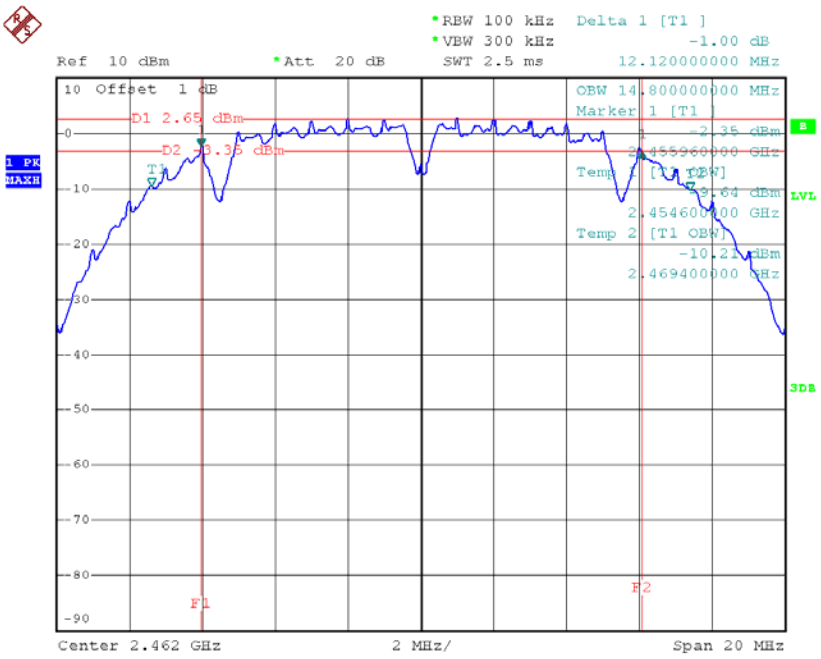


TX CH 06



Date: 17.JAN.2013 17:01:24

TX CH 11

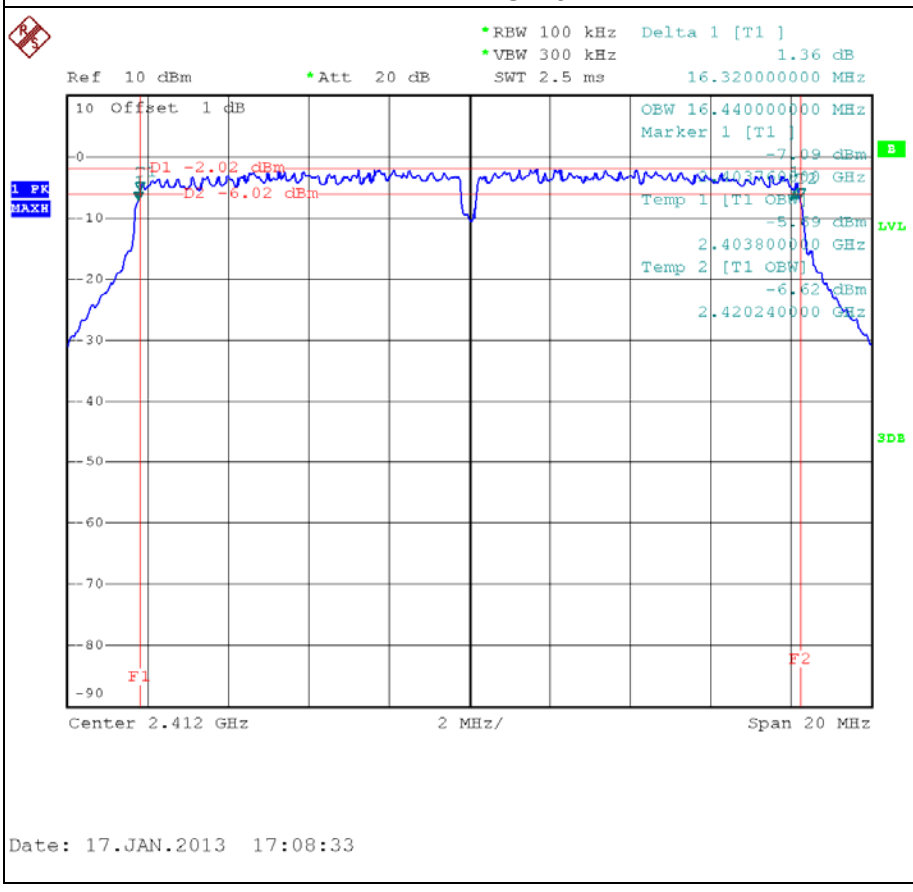


Date: 17.JAN.2013 17:02:33

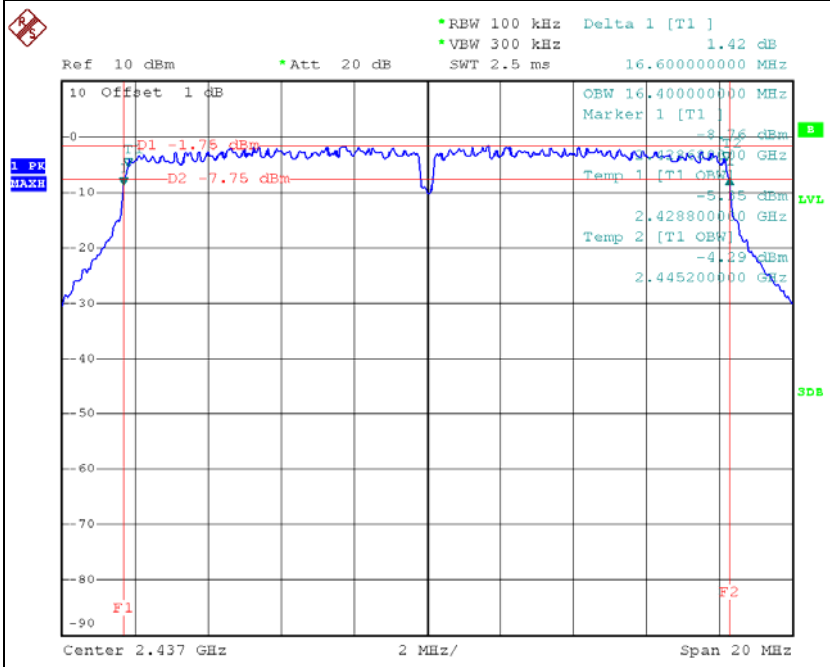
EUT：	WIFI-DISK With Power Bank	Model Name. ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.32	>=500KHz
CH06	2437	16.60	>=500KHz
CH11	2462	16.60	>=500KHz

TX CH 01

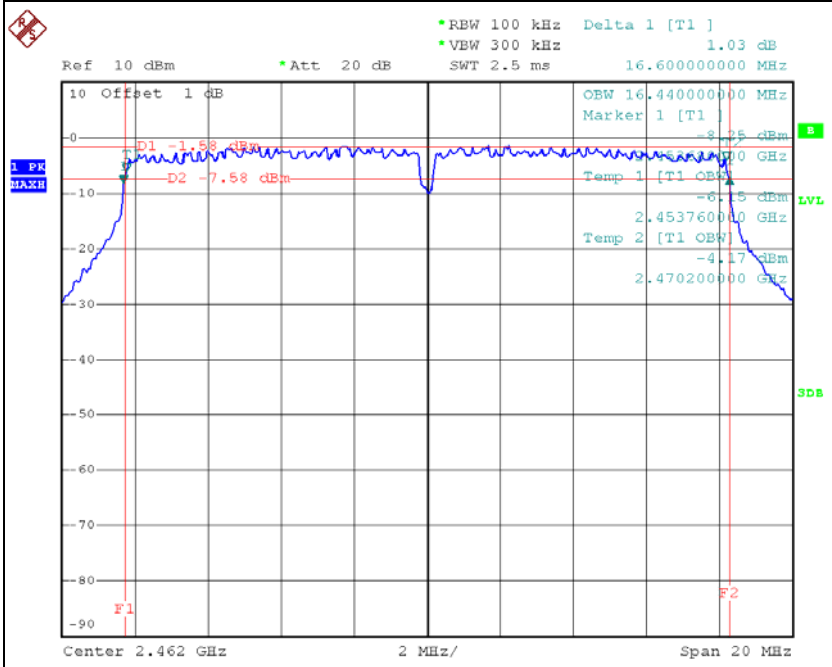


TX CH 06



Date: 17.JAN.2013 17:10:27

TX CH 11

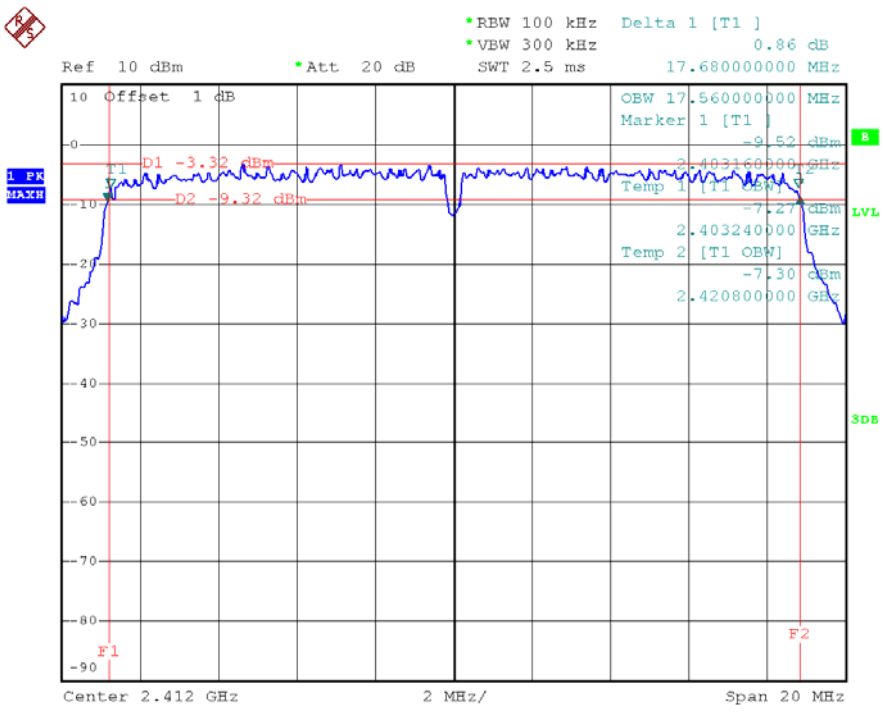


Date: 17.JAN.2013 17:11:29

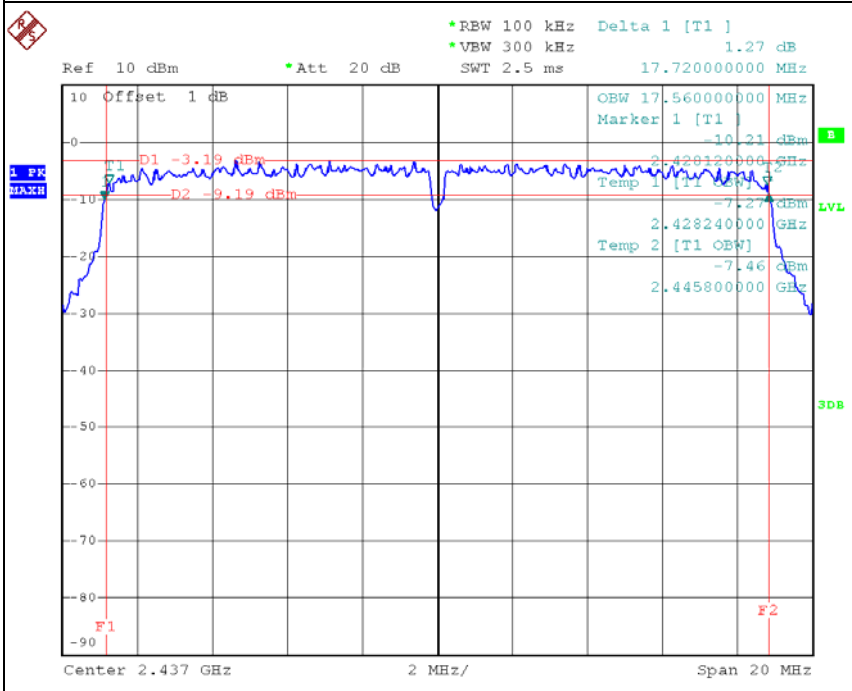
EUT：	WIFI-DISK With Power Bank	Model Name. ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N MODE -20MHz/ CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.68	>=500KHz
CH06	2437	17.72	>=500KHz
CH11	2462	17.68	>=500KHz

TX CH 01

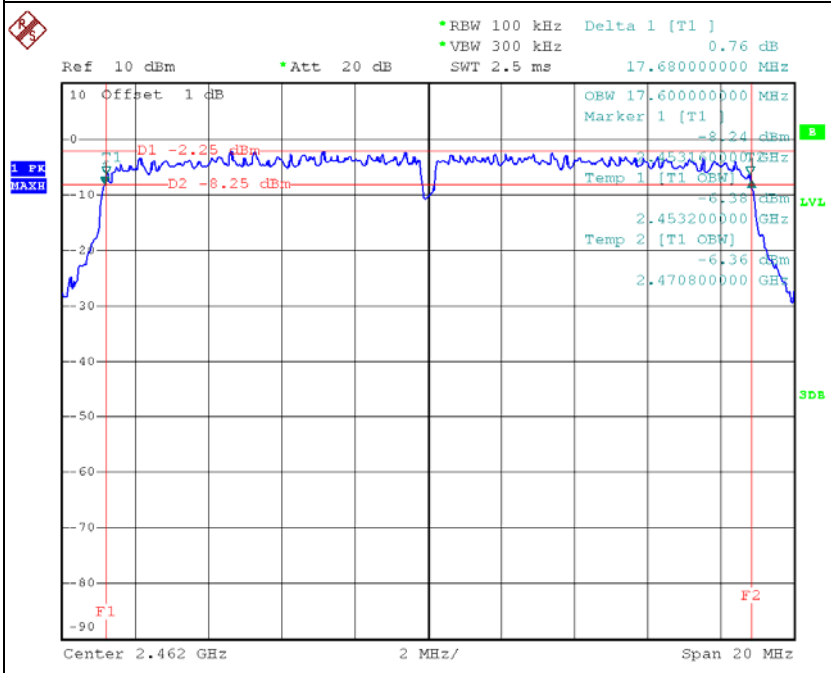


TX CH 06



Date: 17.JAN.2013 17:14:43

TX CH 11

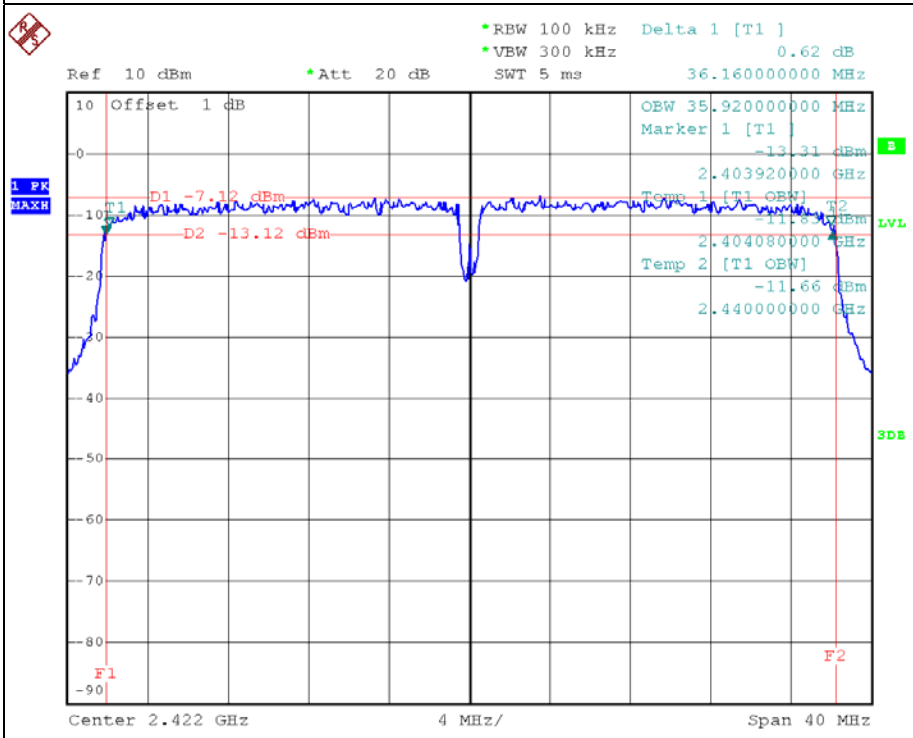


Date: 17.JAN.2013 17:15:40

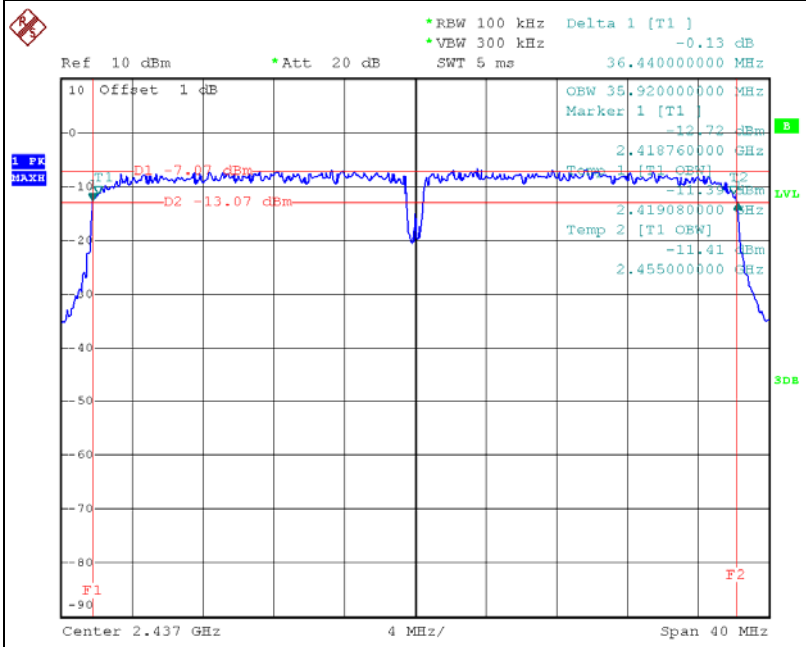
EUT：	WIFI-DISK With Power Bank	Model Name. ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N MODE -40MHz/ CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	36.16	>=500KHz
CH06	2437	36.44	>=500KHz
CH09	2452	35.48	>=500KHz

TX CH 03

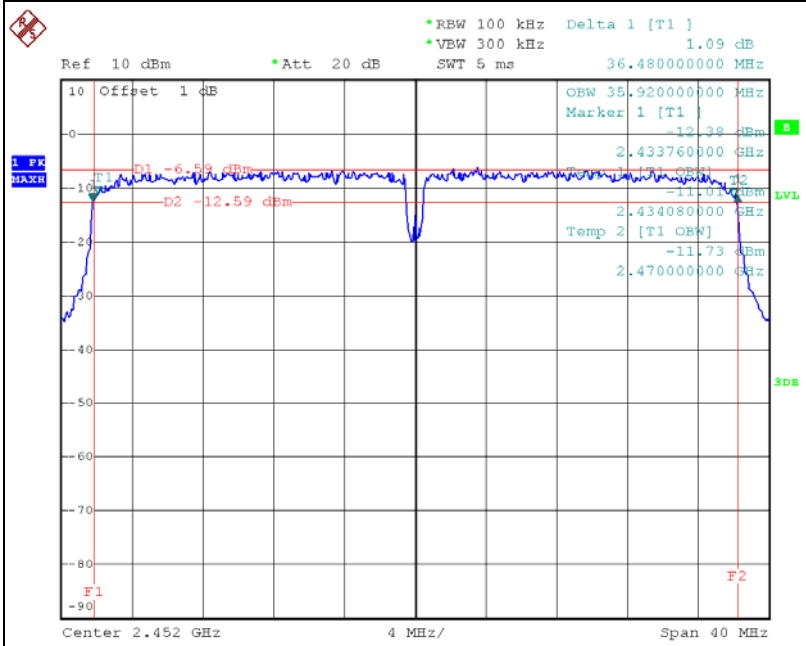


TX CH 06



Date: 17.JAN.2013 17:19:09

TX CH 09



Date: 17.JAN.2013 17:19:52

6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Power Meter	Anritsu	ML2495A	1128009	Nov.01.2012	May.04.2013
2	Pluse Power Sensor	Anritsu	MA2411B	1128009	Nov.01.2012	May.04.2013

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of Equipment List is One Year.

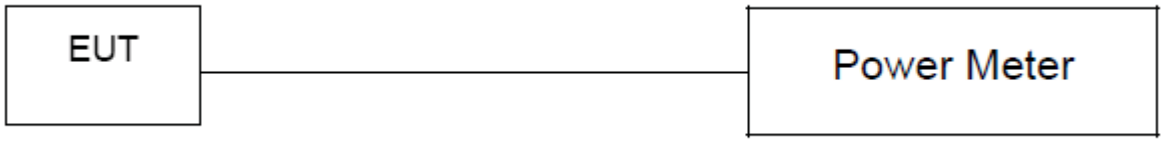
6.1.2 TEST PROCEDURE

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= 1MHz, VBW=3MHz, Sample detector,Sweep time = Auto.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.6 TEST RESULTS

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE /CH01, CH06, CH11		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	16.46	30	1
CH06	2437 MHz	16.84	30	1
CH11	2462 MHz	16.35	30	1

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE /CH01, CH06, CH11		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	20.44	30	1
CH06	2437 MHz	20.50	30	1
CH11	2462 MHz	20.30	30	1

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-20M MODE /CH01, CH06, CH11		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	20.31	30	1
CH06	2437 MHz	20.25	30	1
CH11	2462 MHz	20.33	30	1

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-40M MODE /CH03, CH06, CH09		

Maximum Output Power

Test Channel	Frequency (MHz)	Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422 MHz	18.86	30	1
CH06	2437 MHz	19.25	30	1
CH09	2452 MHz	19.39	30	1

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

30dBc 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.

Frequencies (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
960~1000	500	3

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.25.2012	Nov.16.2013

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of Equipment List is One Year.

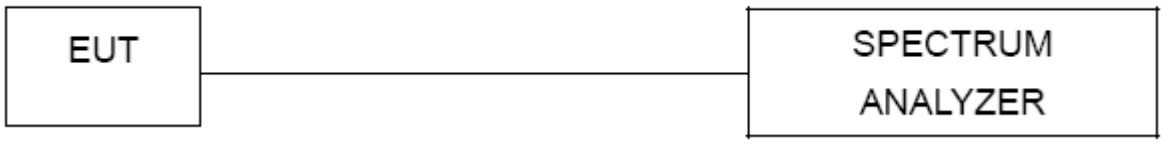
7.1.2 TEST PROCEDURE

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=300KHz, Sweep time = 10 ms.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

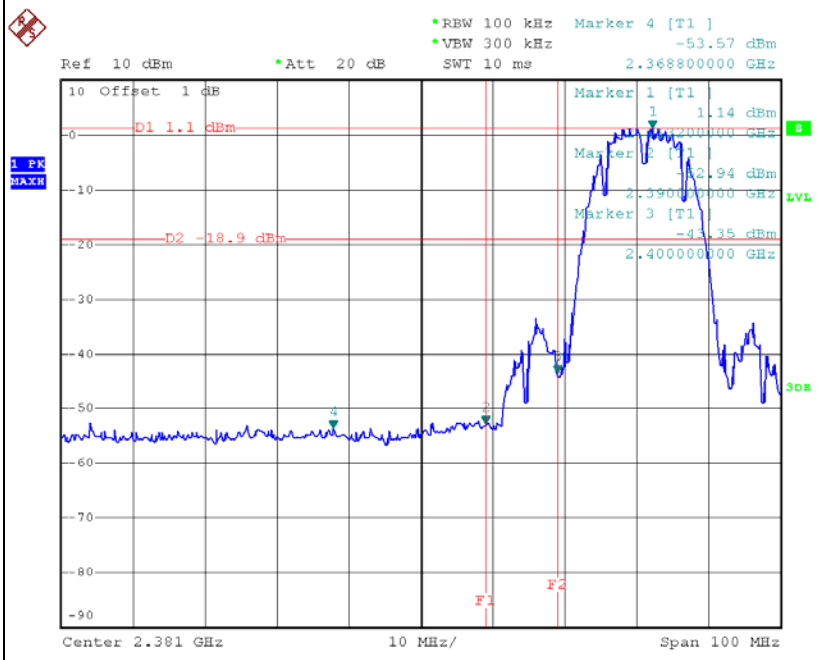
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.6 TEST RESULTS

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE /CH01, CH06 , CH11		

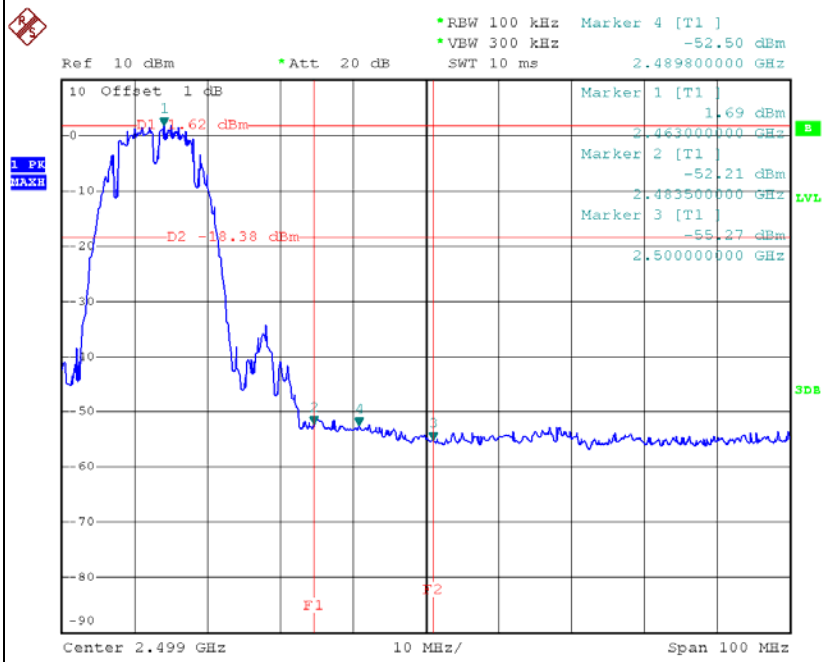
Channel of Worst Data: CH01			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth outside the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-43.35	2483.50	-52.21
Result			
In any 100kHz 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.			

TX B mode CH01



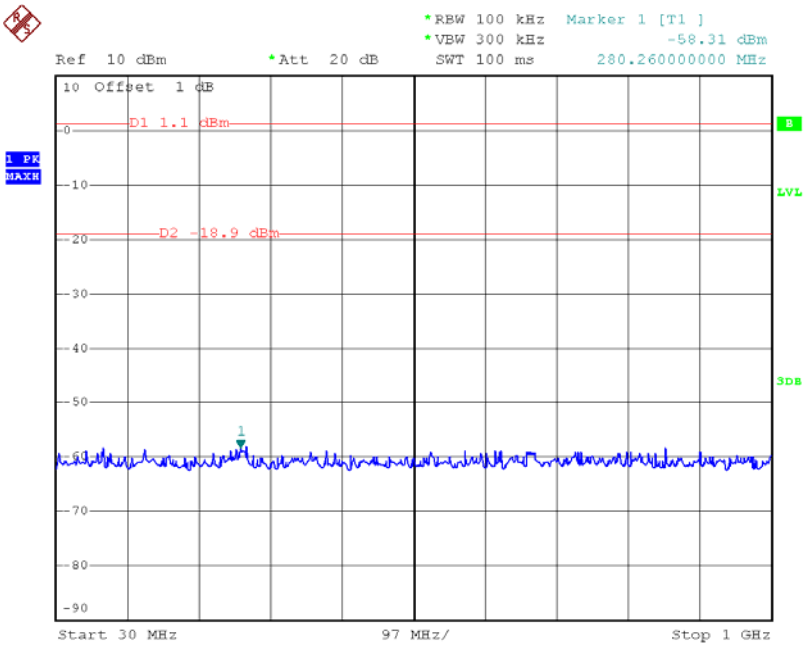
Date: 18.DEC.2012 13:45:34

TX B mode CH11



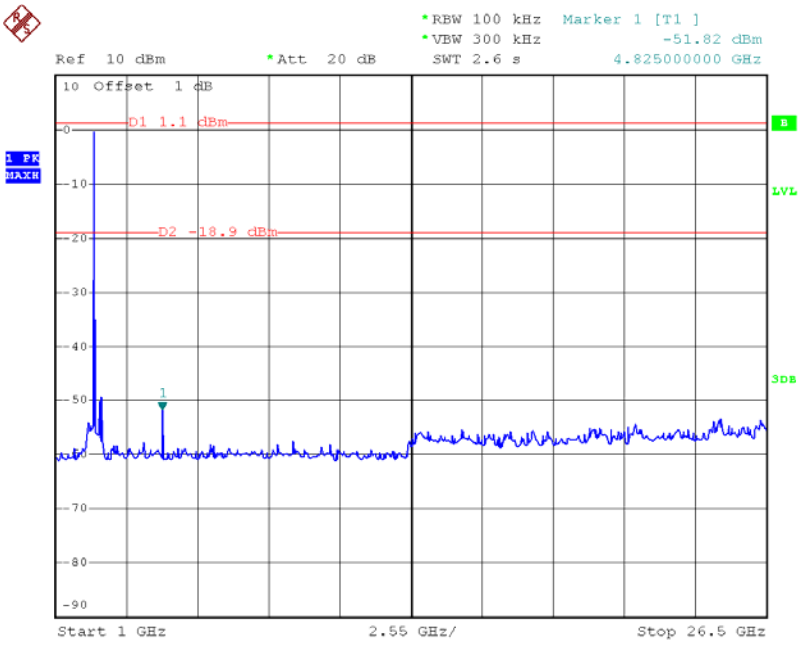
Date: 18.DEC.2012 13:07:00

TX B mode CH01 (30M~1000MHz)



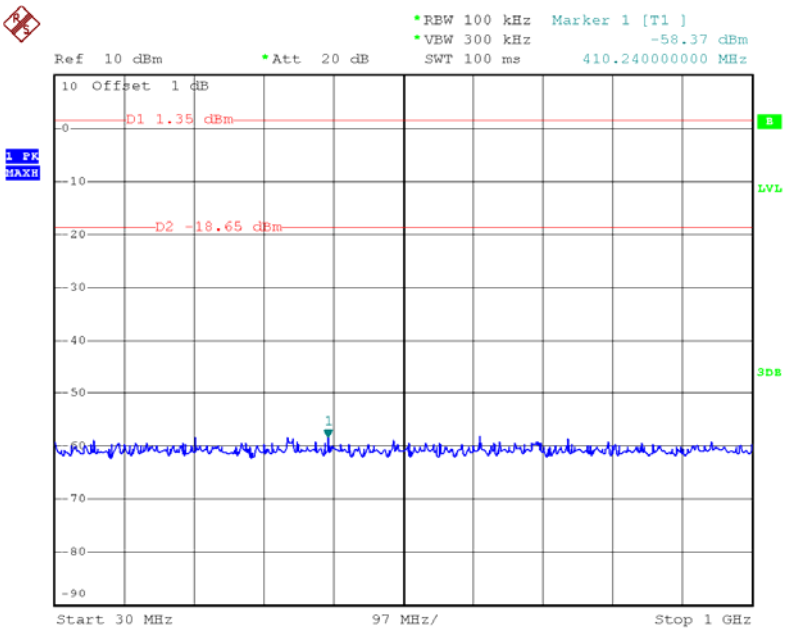
Date: 18.DEC.2012 13:45:59

TX B mode CH01 (1000MHz~10th Harmonic)



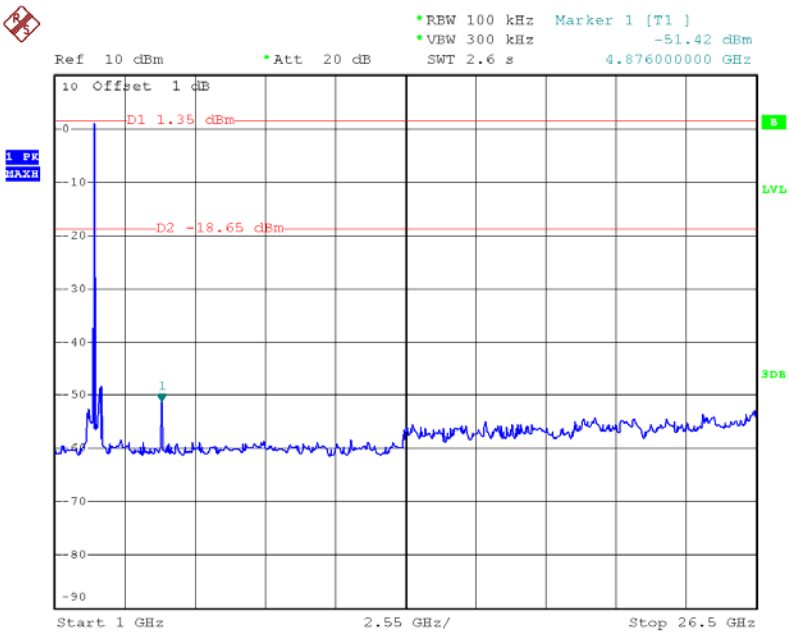
Date: 18.DEC.2012 13:46:13

TX B mode CH06 (30M~1000MHz)



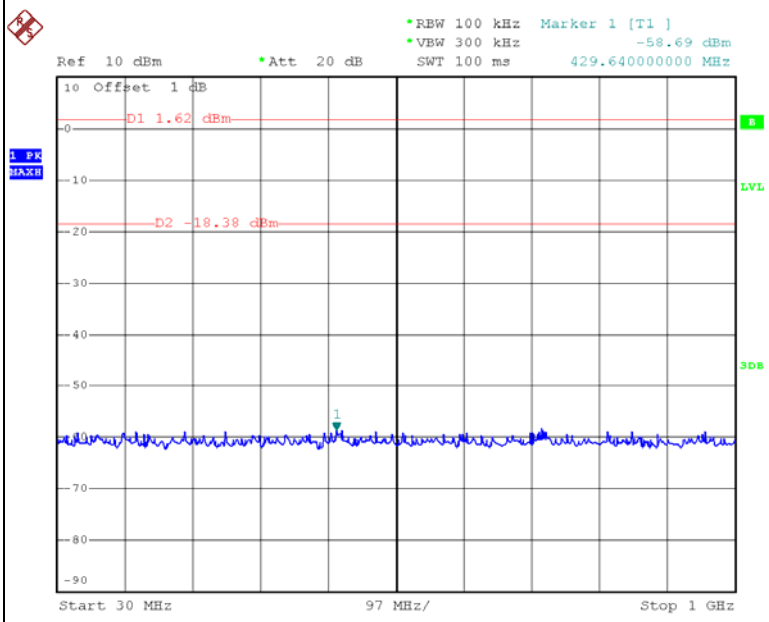
Date: 18.DEC.2012 14:02:55

TX B mode CH06 (1000MHz~10th Harmonic)



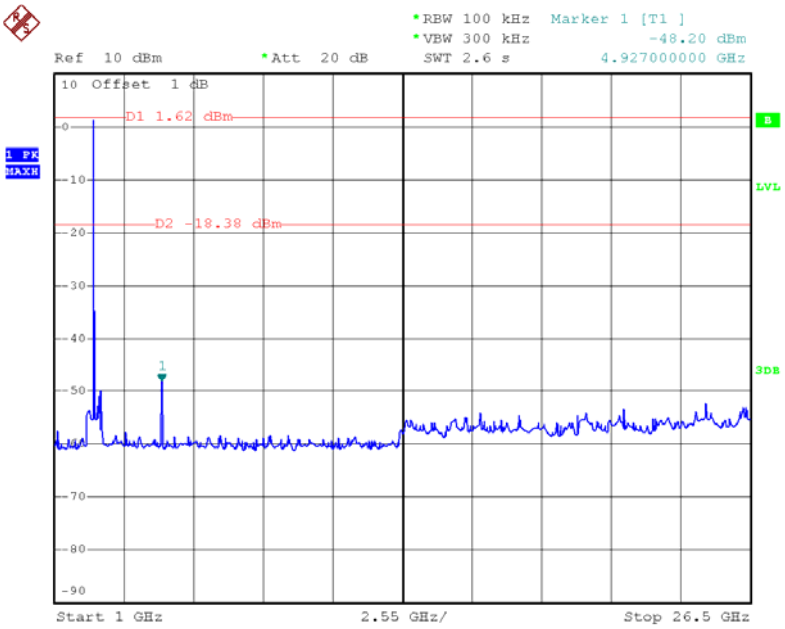
Date: 18.DEC.2012 14:03:11

TX B mode CH11 (30M~1000MHz)



Date: 18.DEC.2012 13:08:07

TX B mode CH11 (1000MHz~10th Harmonic)

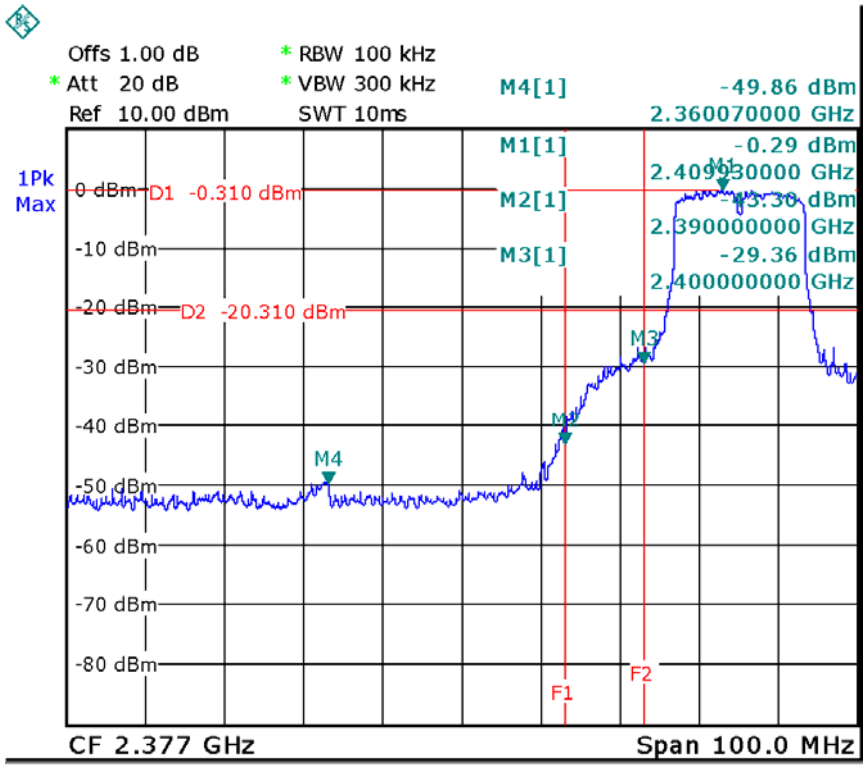


Date: 18.DEC.2012 13:08:23

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE / CH01, CH06 , CH11		

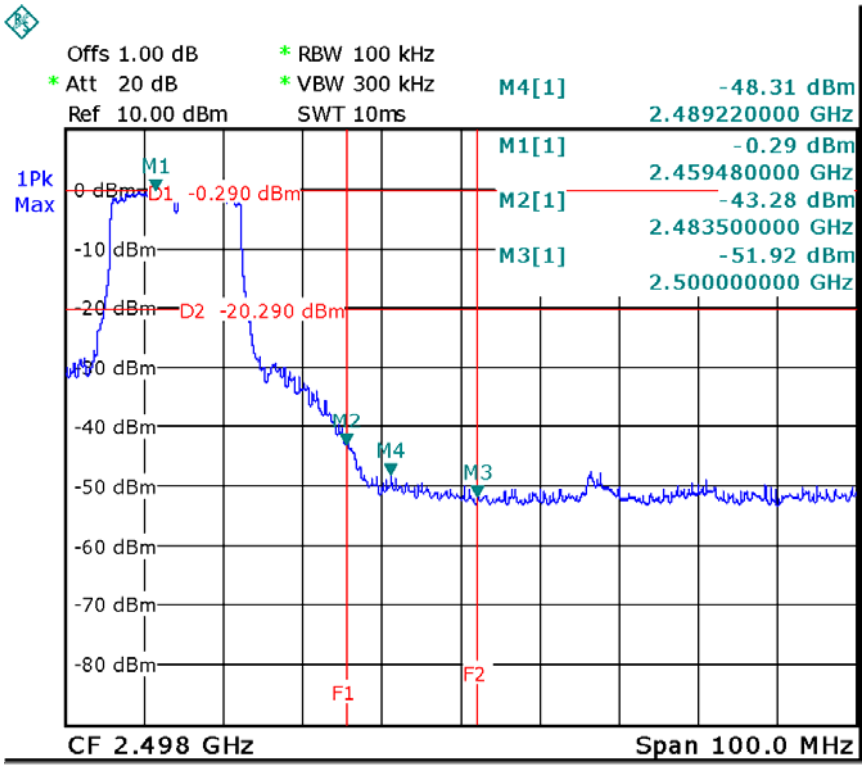
Channel of Worst Data: CH011			
The max. radio frequency power in any 100kHz bandwidth within the frequency band		The max. radio frequency power in any 100 kHz bandwidth outside the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-29.36	2483.50	-43.28
Result			
In any 100kHz 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.			

TX G mode CH01



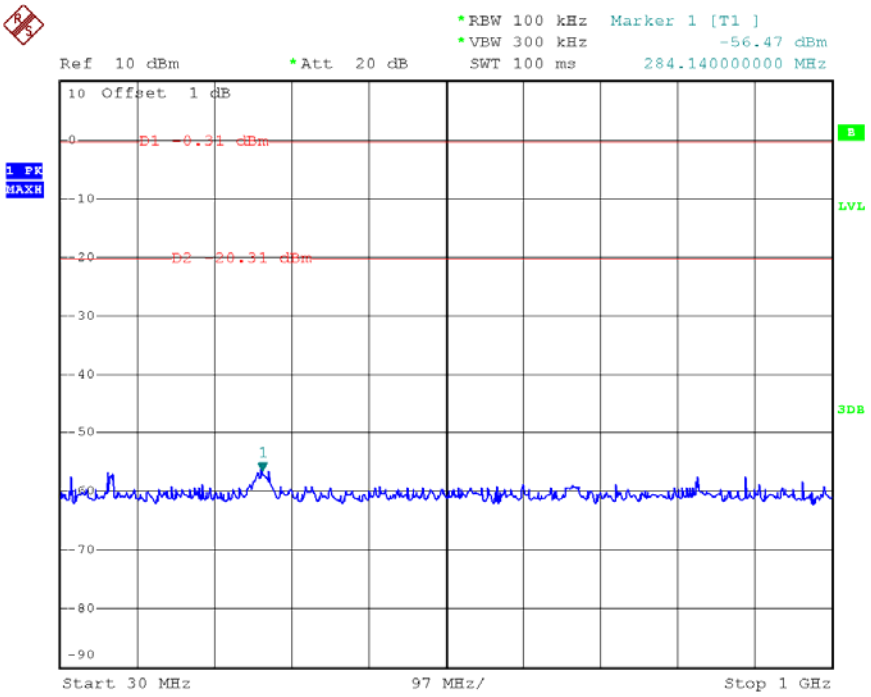
Date: 6.DEC.2012 09:00:42

TX G mode CH11



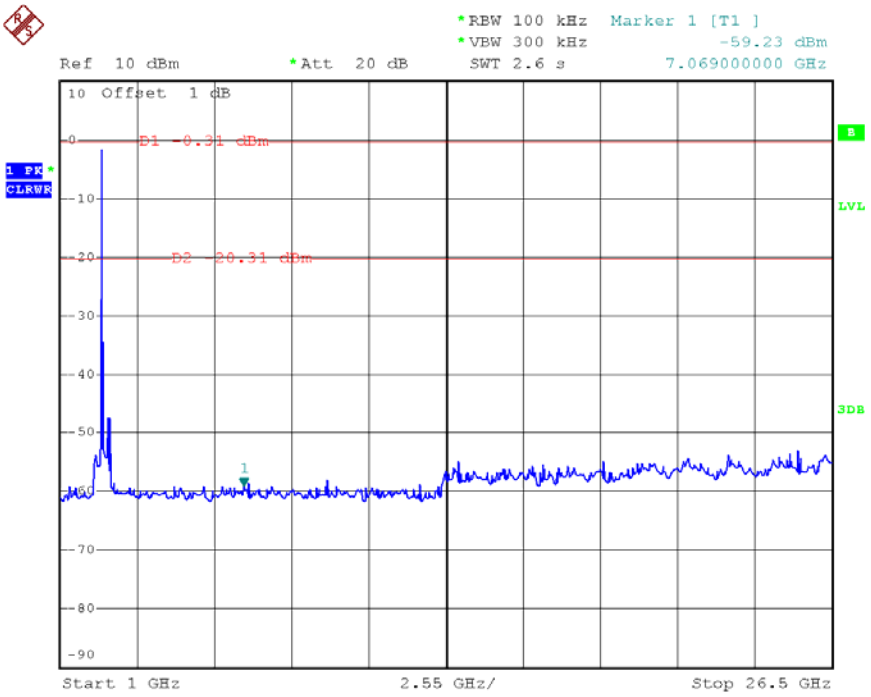
Date: 6.DEC.2012 08:53:39

TX G mode CH01 (30M~1000MHz)



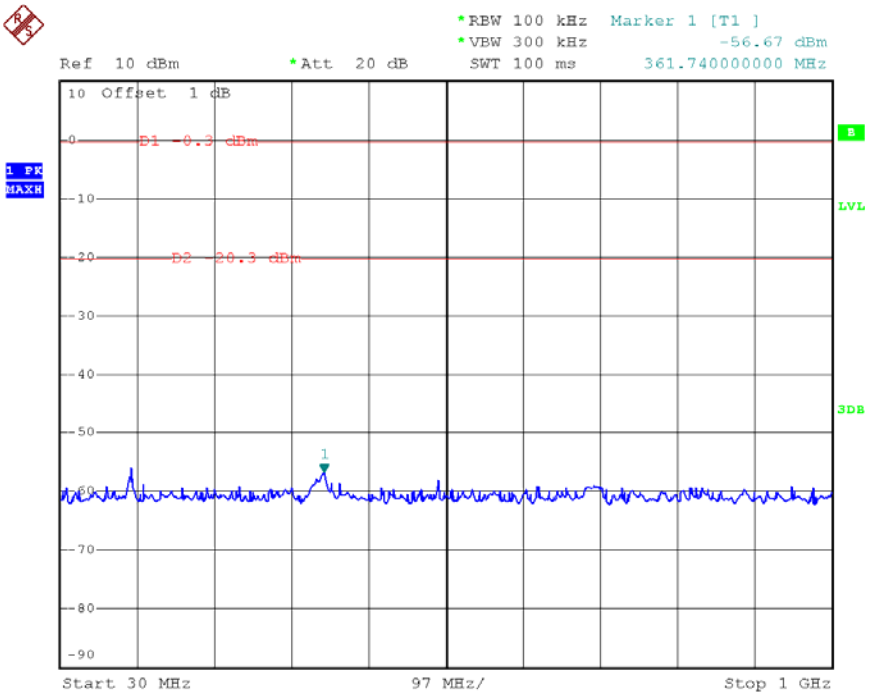
Date: 18.DEC.2012 14:05:44

TX G mode CH01 (1000MHz~10th Harmonic)



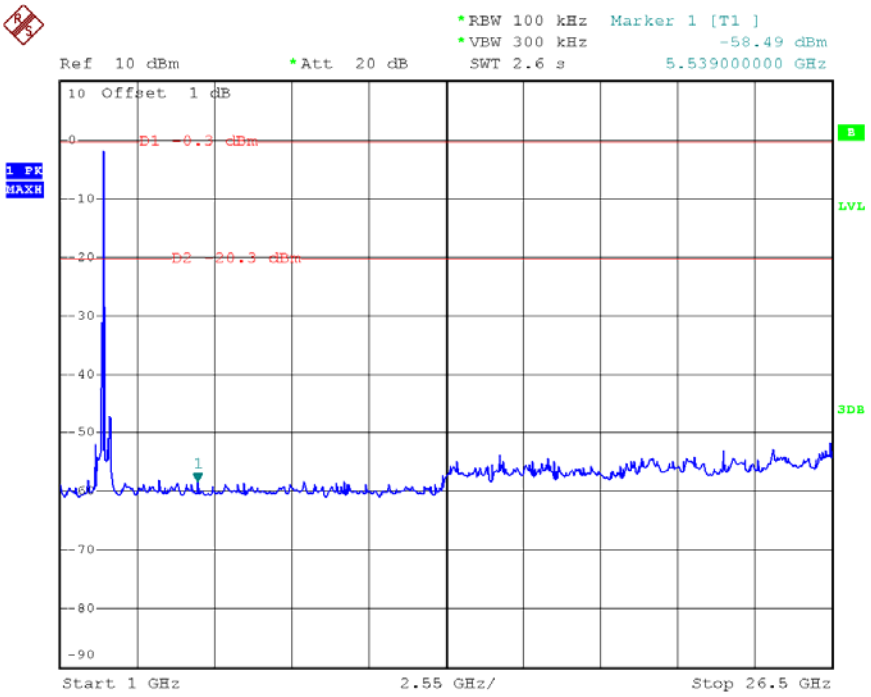
Date: 18.DEC.2012 14:05:28

TX G mode CH06 (30M~1000MHz)



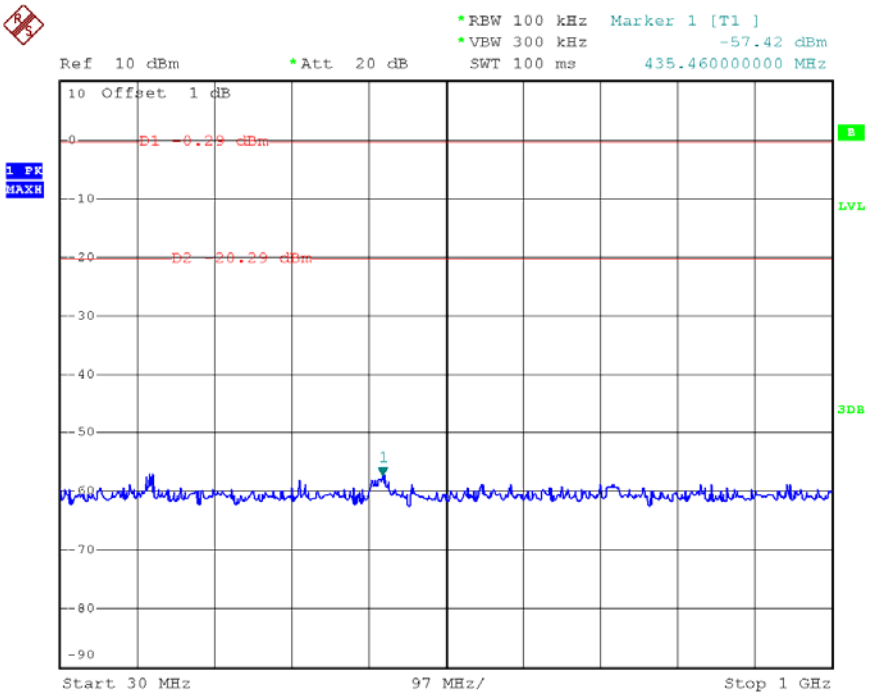
Date: 18.DEC.2012 14:08:28

TX G mode CH06 (1000MHz~10th Harmonic)



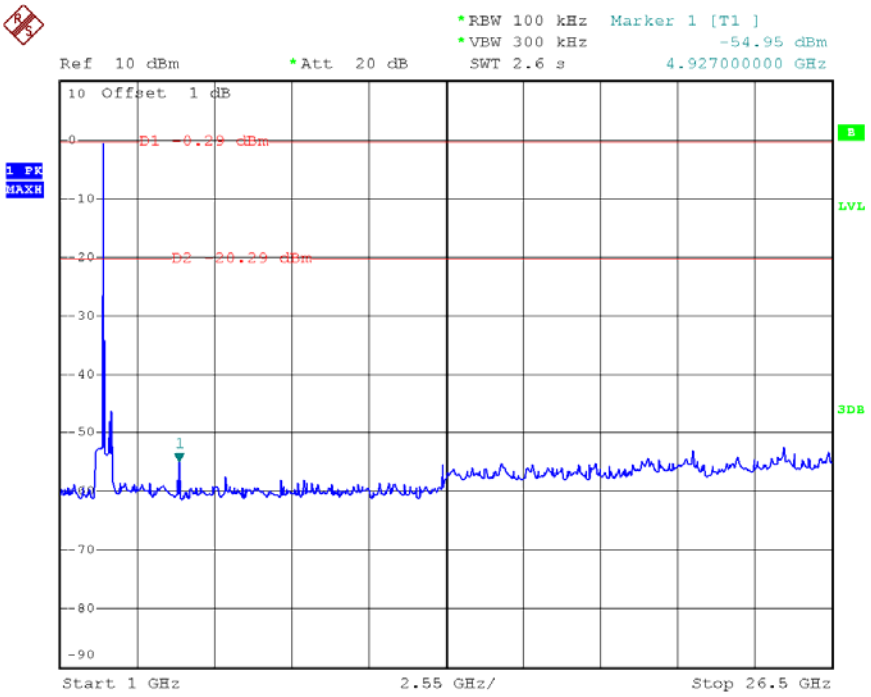
Date: 18.DEC.2012 14:08:14

TX G mode CH11 (30M~1000MHz)



Date: 18.DEC.2012 14:06:32

TX G mode CH11 (1000MHz~10th Harmonic)

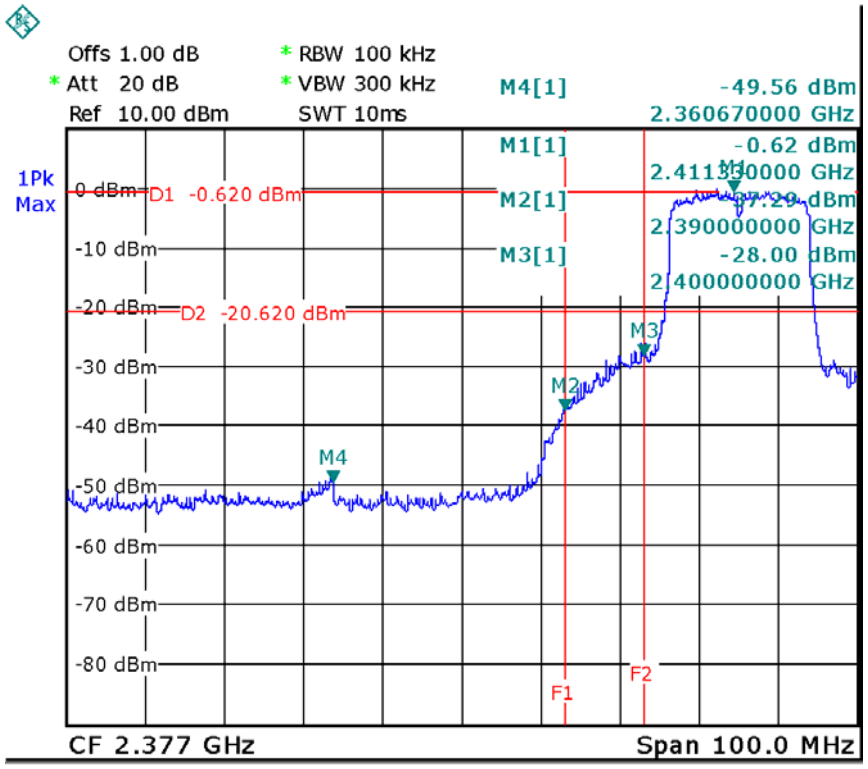


Date: 18.DEC.2012 14:06:55

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-20M MODE / CH01, CH06 , CH11		

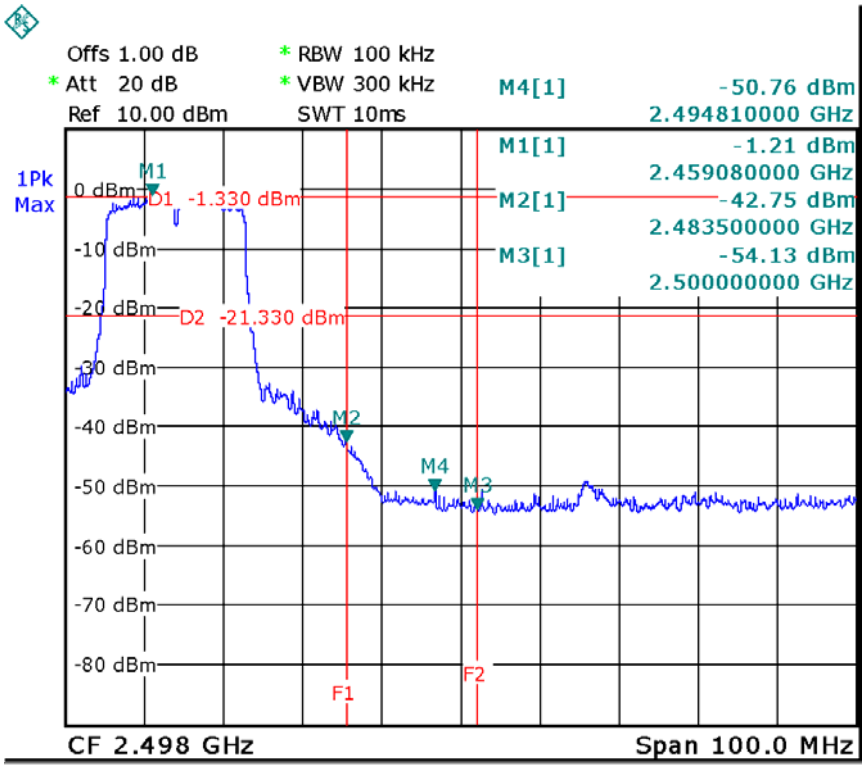
Channel of Worst Data: CH011			
The max. radio frequency power in any 100kHz bandwidth within the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-28.00	2483.50	-42.75
Result			
In any 100kHz 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.			

TX HT20 mode CH01



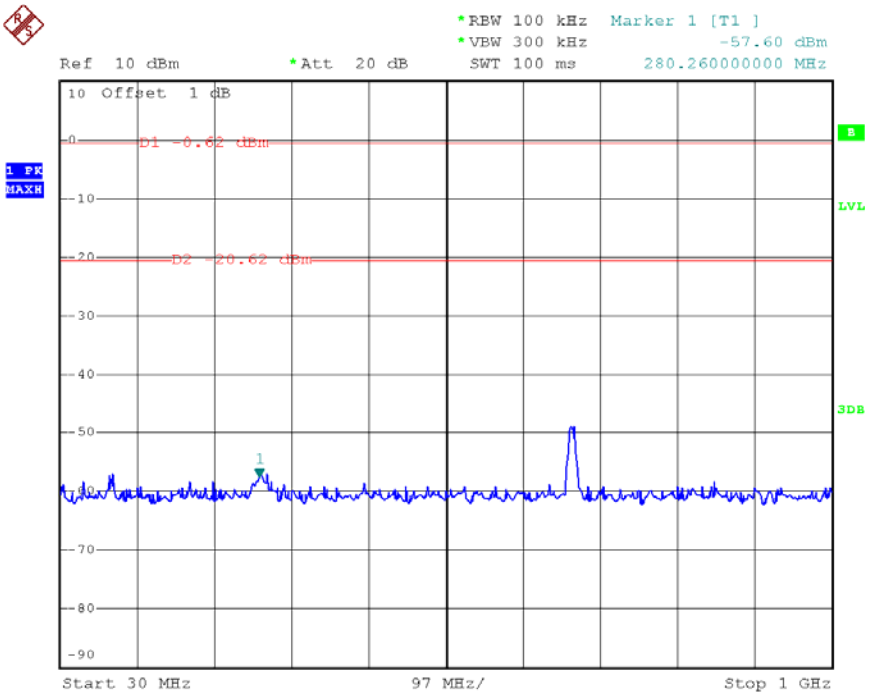
Date: 6.DEC.2012 09:04:15

TX HT20 mode CH11



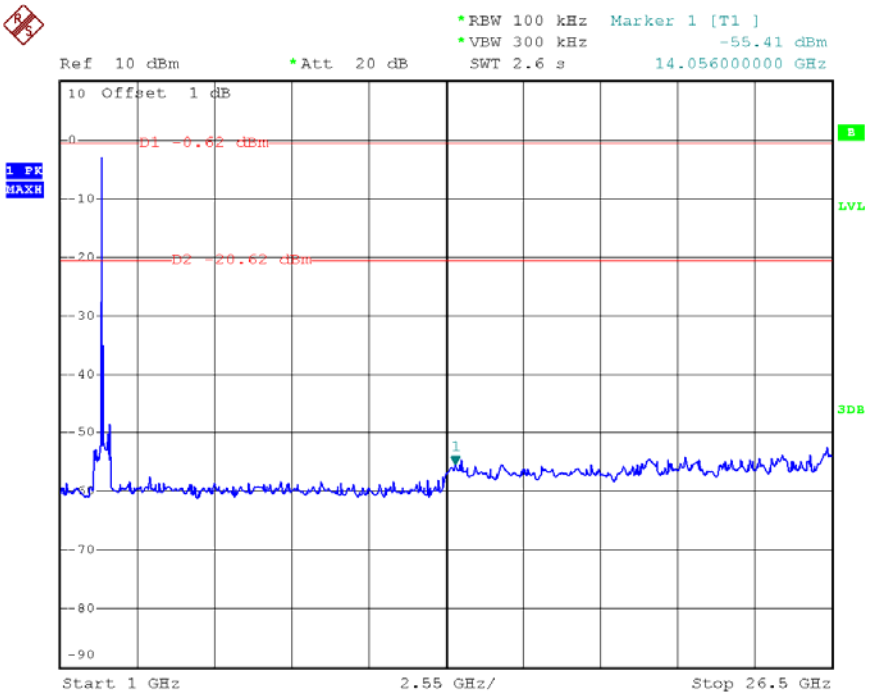
Date: 6.DEC.2012 08:55:13

TX HT20 mode CH01 (30M~1000MHz)



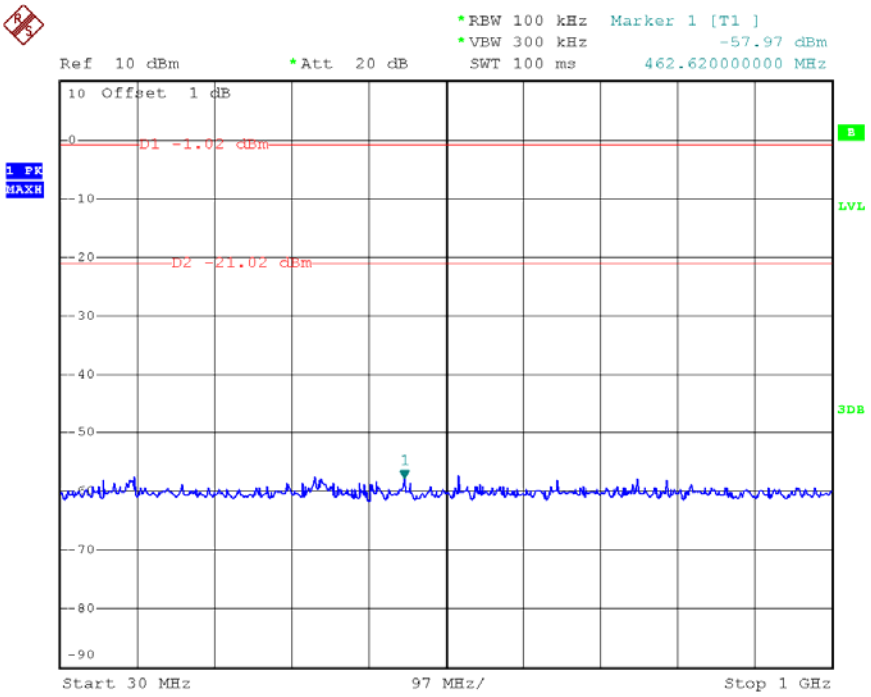
Date: 18.DEC.2012 14:09:55

TX HT20 mode CH01 (1000MHz~10th Harmonic)



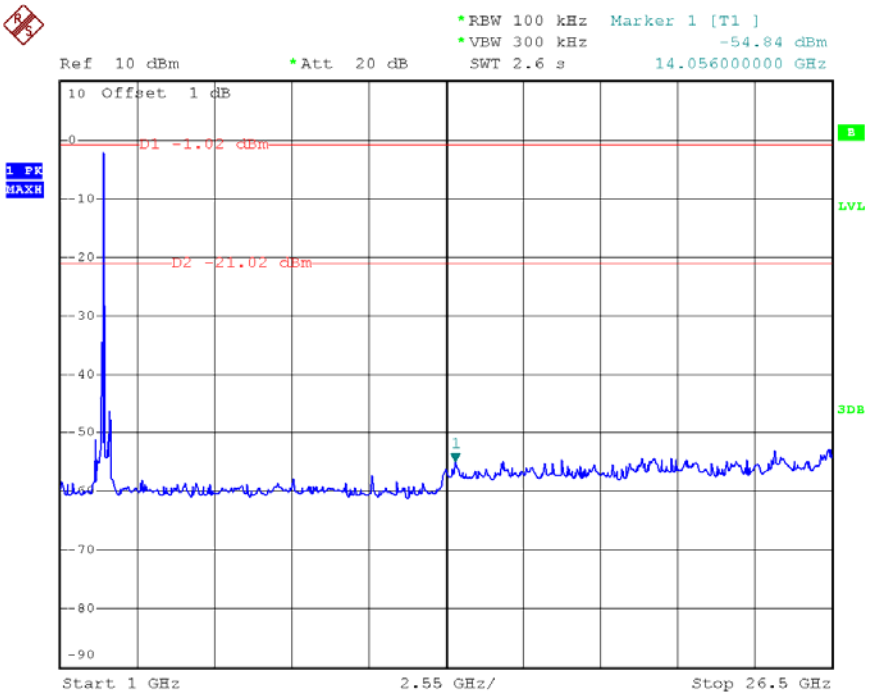
Date: 18.DEC.2012 14:10:25

TX HT20 mode CH06 (30M~1000MHz)



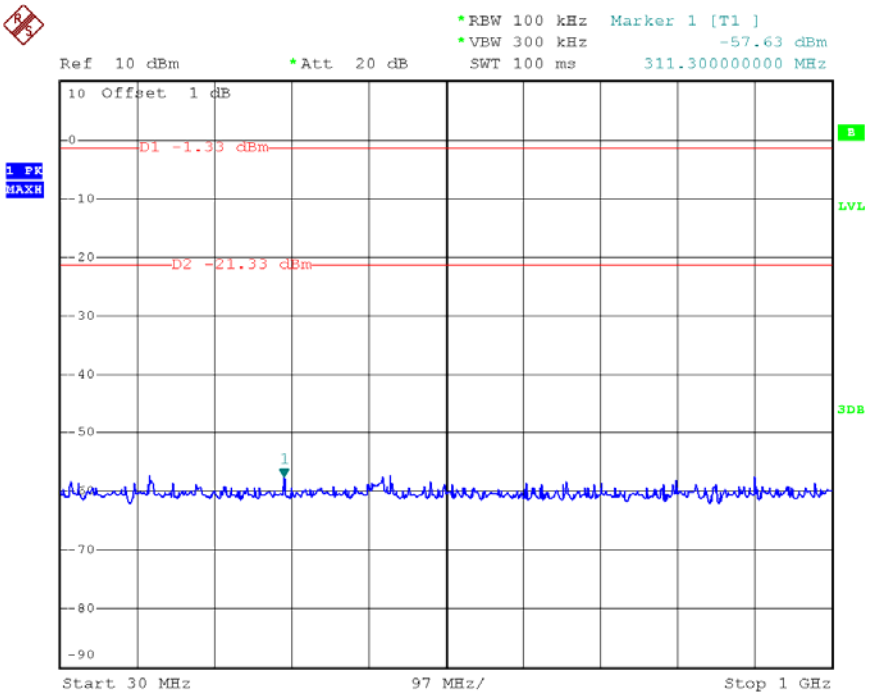
Date: 18.DEC.2012 14:13:11

TX HT20 mode CH06 (1000MHz~10th Harmonic)



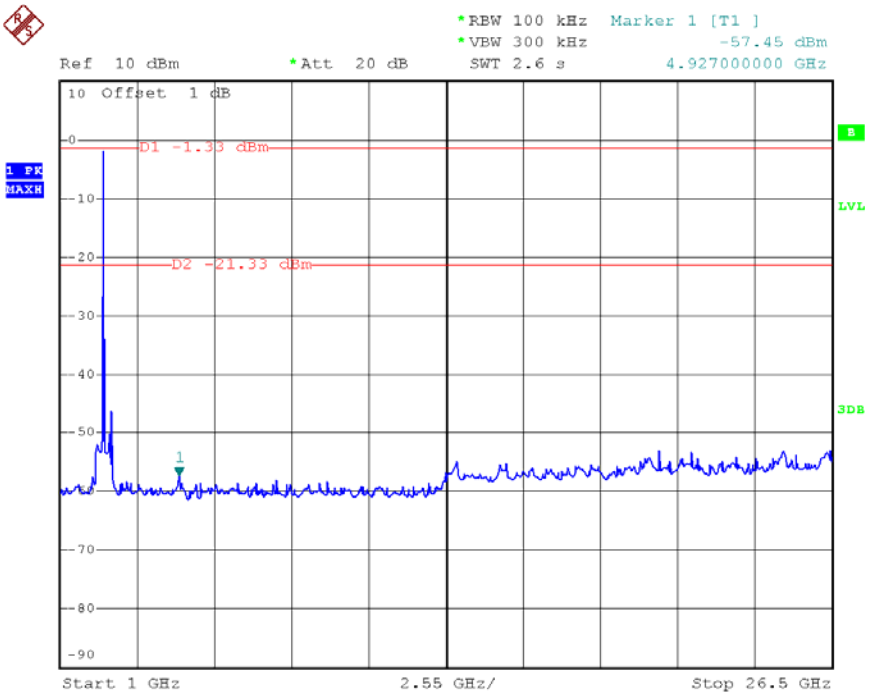
Date: 18.DEC.2012 14:13:29

TX HT20 mode CH11 (30M~1000MHz)



Date: 18.DEC.2012 14:11:53

TX HT20 mode CH11 (1000MHz~10th Harmonic)

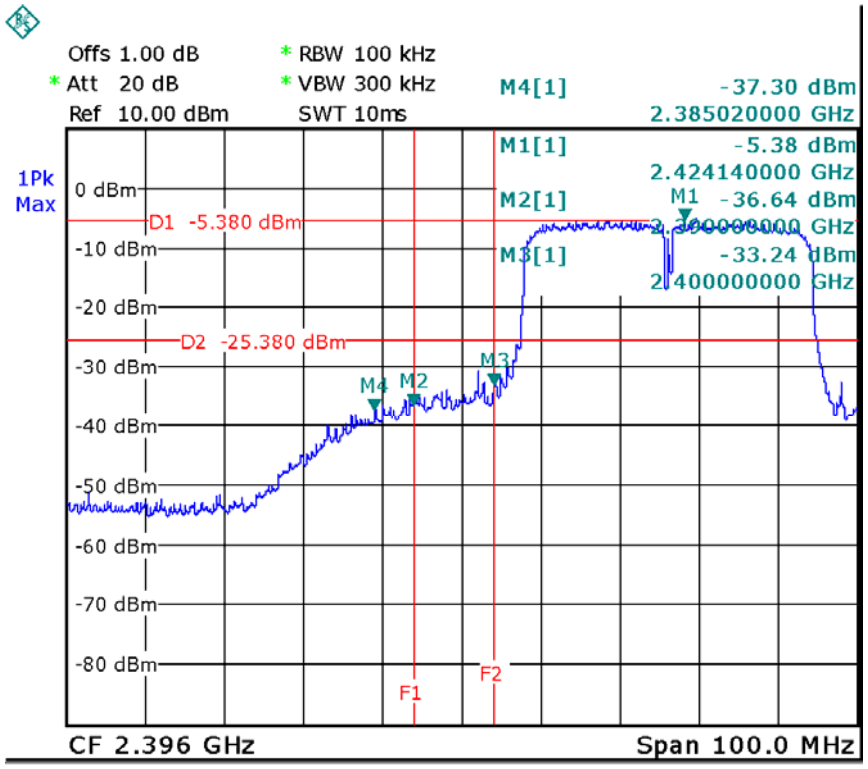


Date: 18.DEC.2012 14:11:35

EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N-40M MODE /CH03, CH06, CH09		

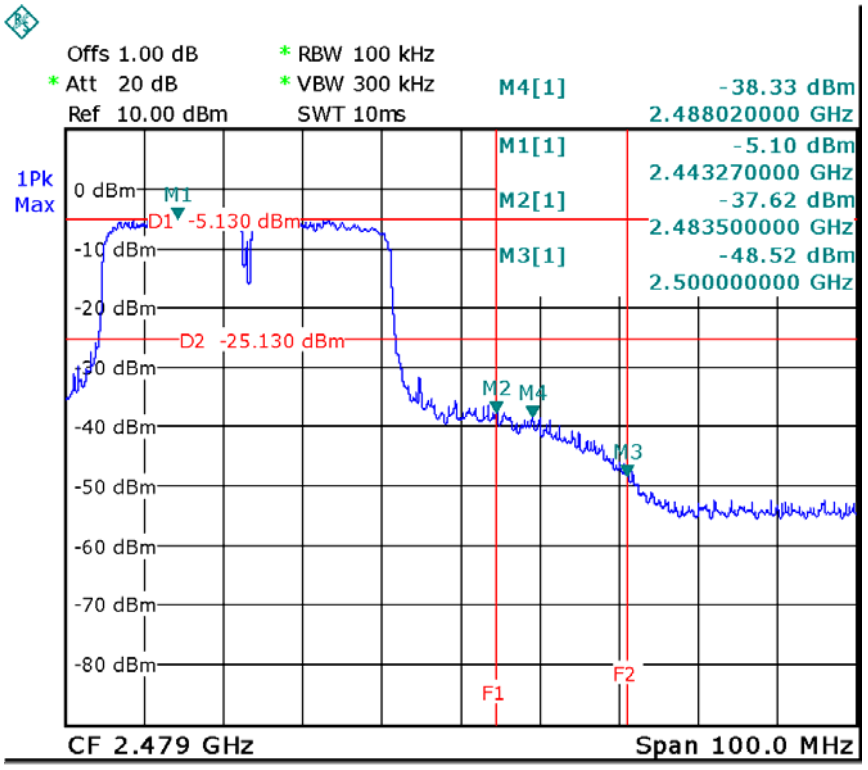
Channel of Worst Data: CH09			
The max. radio frequency power in any 100kHz bandwidth within the frequency band		The max. radio frequency power in any 100 kHz bandwidth outside the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-33.24	2483.50	-37.62
Result			
In any 100kHz 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.			

TX HT40 mode CH03



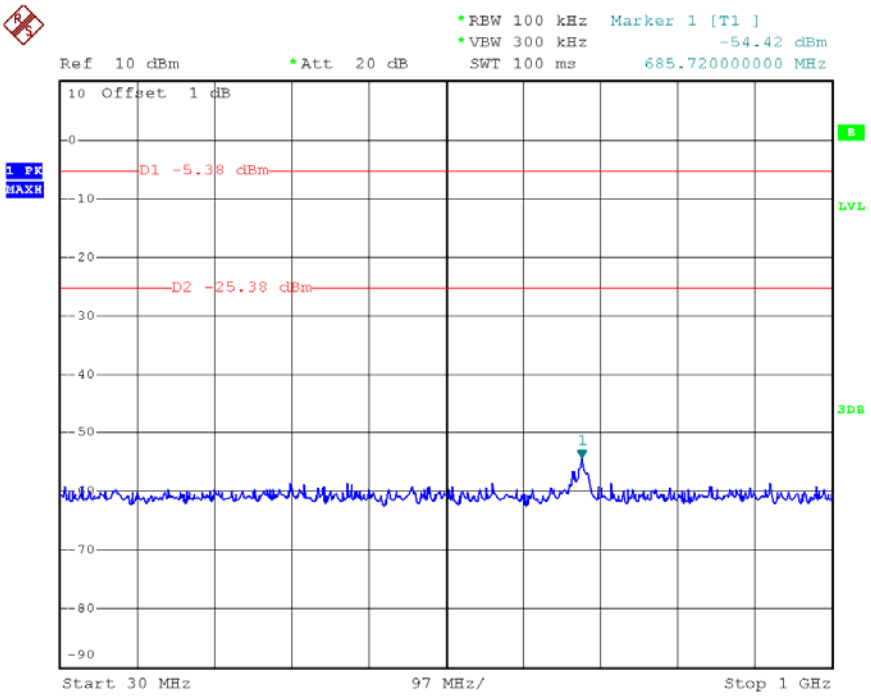
Date: 6.DEC.2012 08:58:38

TX HT40 mode CH09



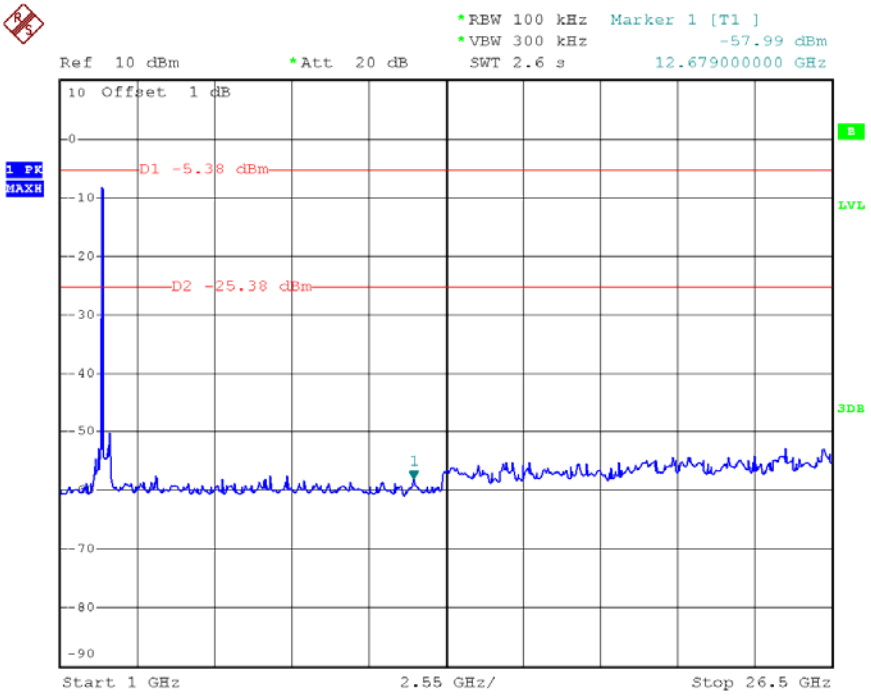
Date: 6.DEC.2012 08:56:58

TX HT40 mode CH03 (30M~1000MHz)



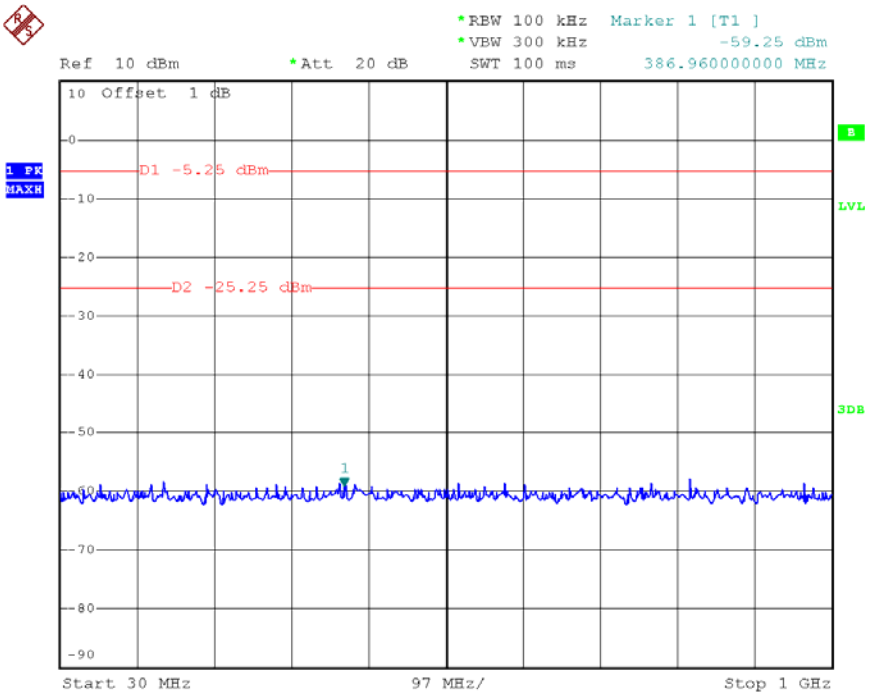
Date: 18.DEC.2012 14:14:54

TX HT40 mode CH03 (1000MHz~10th Harmonic)



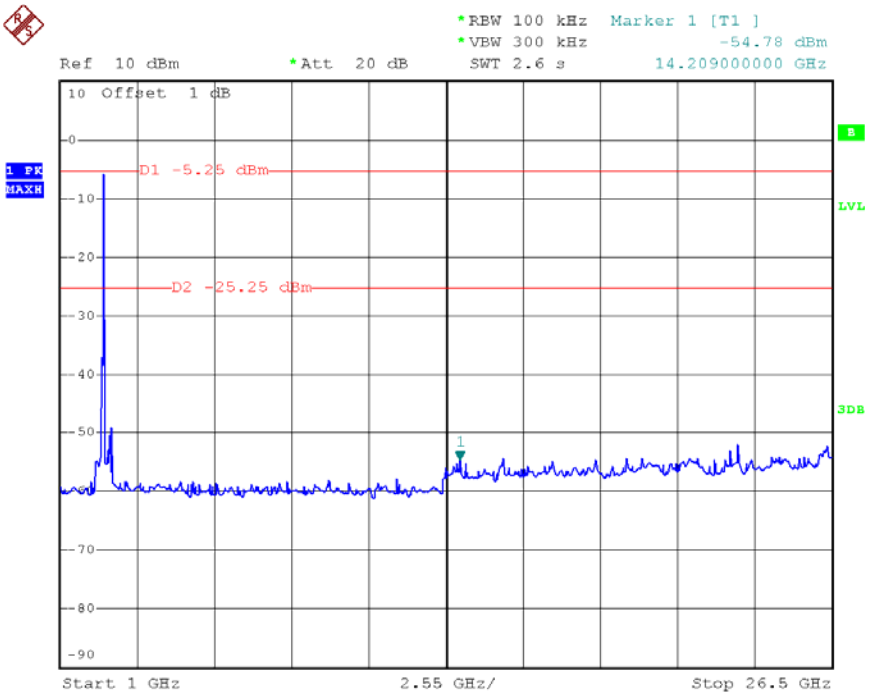
Date: 18.DEC.2012 14:14:44

TX HT40 mode CH06 (30M~1000MHz)



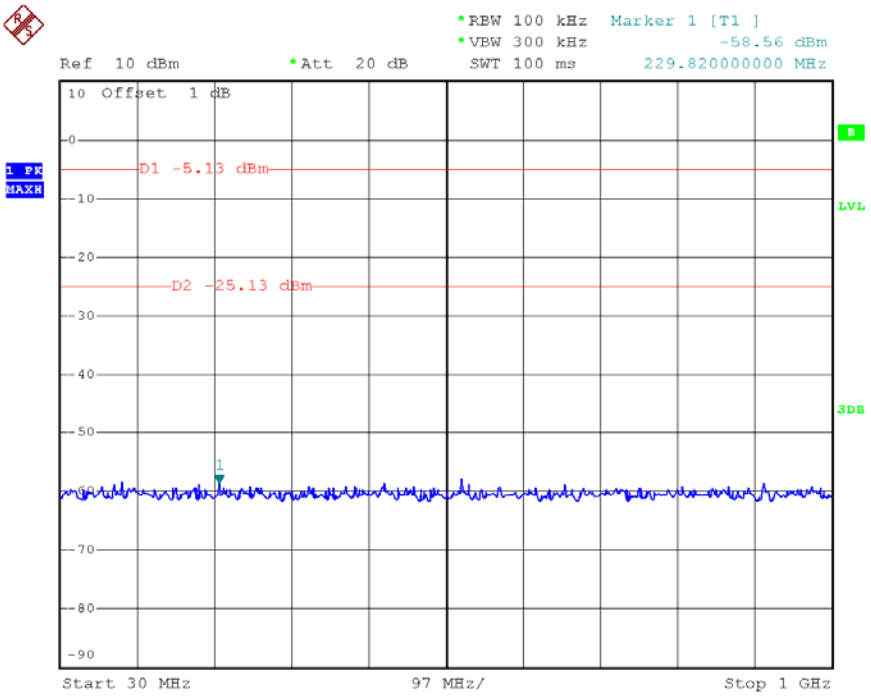
Date: 18.DEC.2012 14:17:00

TX HT40 mode CH06 (1000MHz~10th Harmonic)



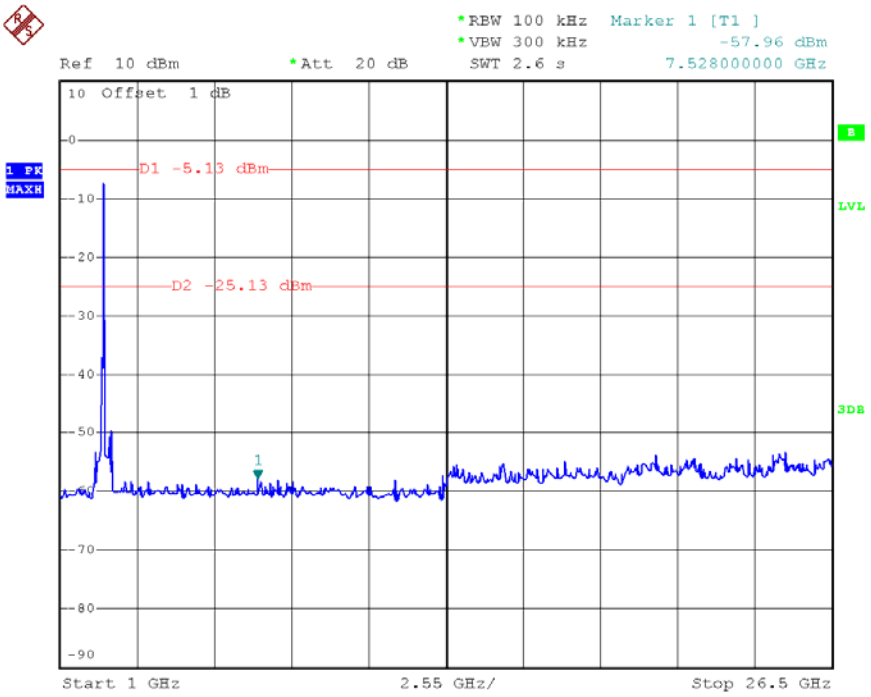
Date: 18.DEC.2012 14:16:47

TX HT40 mode CH09 (30M~1000MHz)



Date: 18.DEC.2012 14:15:54

TX HT40 mode CH09 (1000MHz~10th Harmonic)



Date: 18.DEC.2012 14:16:07

8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.25.2012	Nov.16.2013

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of Equipment List is One Year.

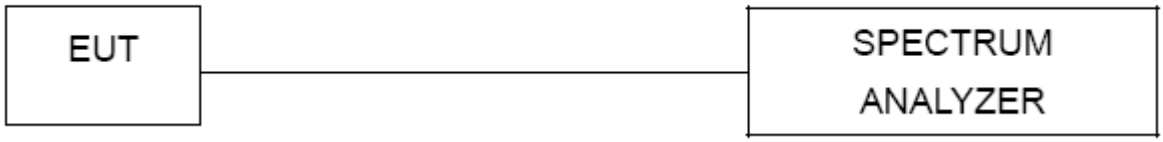
8.1.2 TEST PROCEDURE

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=3KHz, VBW=10KHz, Sweep time = 2.5ms.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

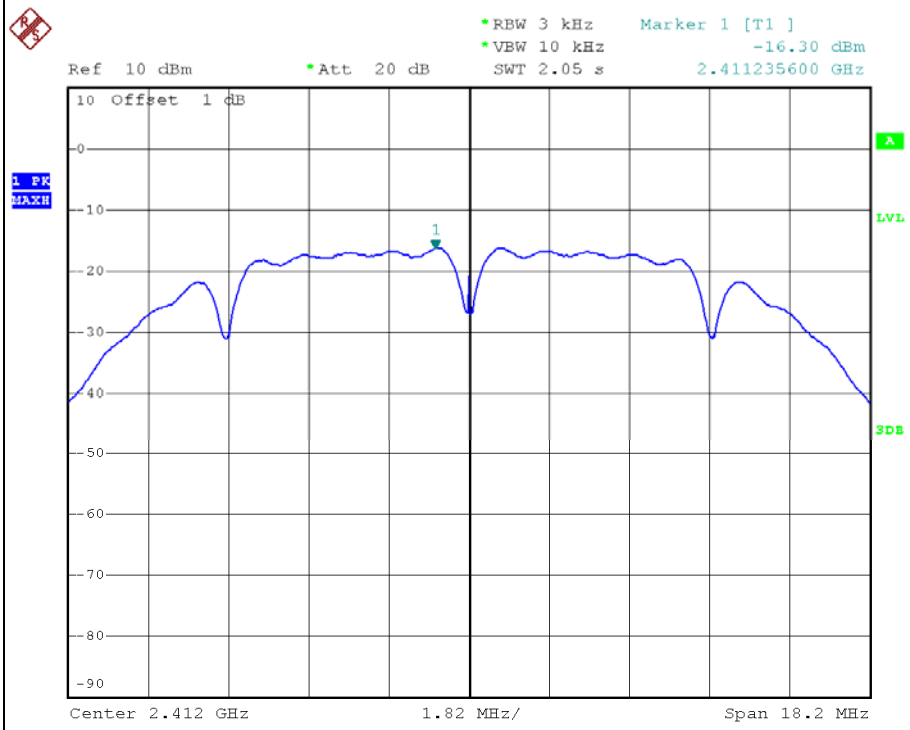
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.6 TEST RESULTS

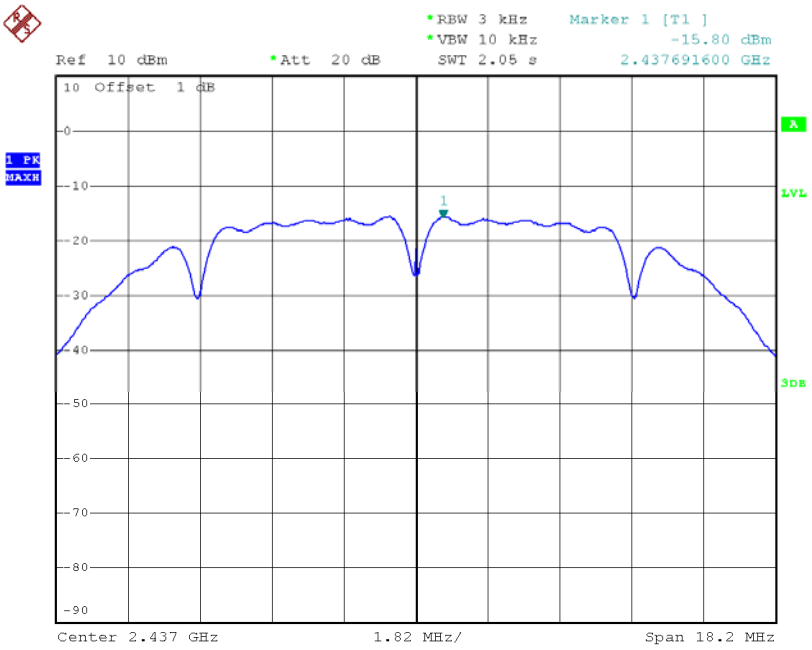
EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX B MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-16.30	8
CH06	2437 MHz	-15.80	8
CH11	2462 MHz	-15.86	8

TX CH01

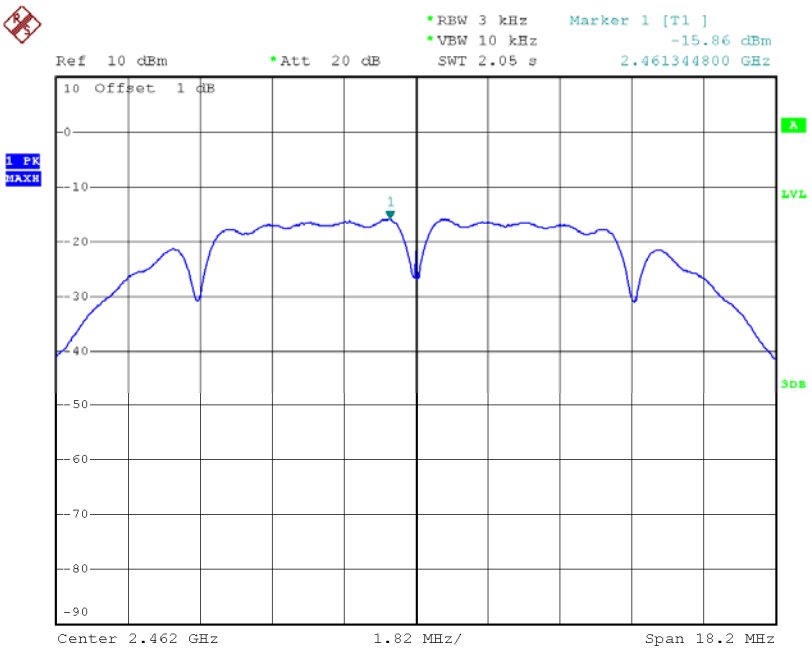


TX CH06



Date: 17.JAN.2013 17:06:14

TX CH11

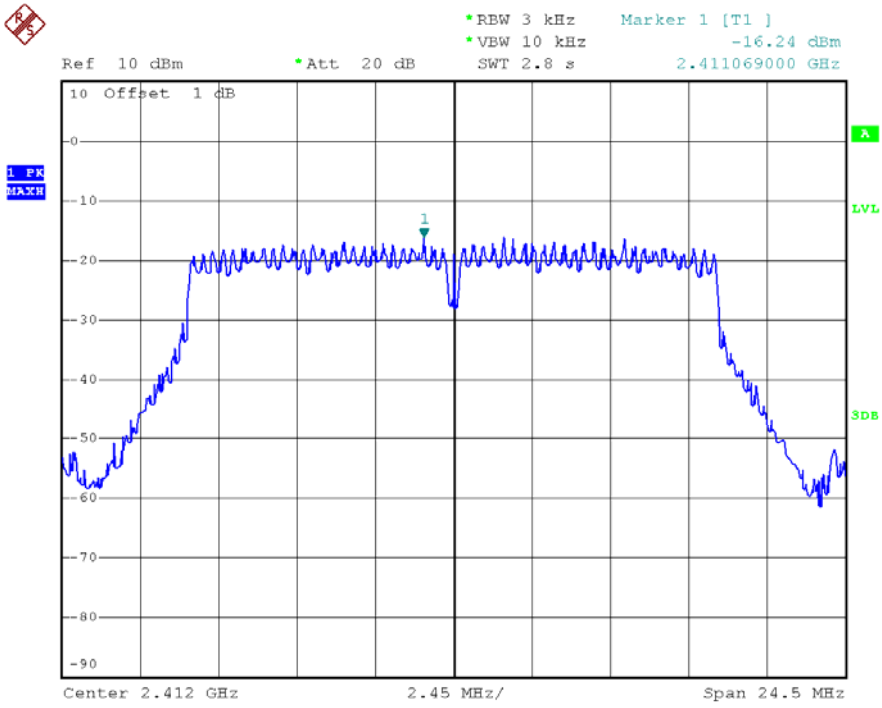


Date: 17.JAN.2013 17:06:34

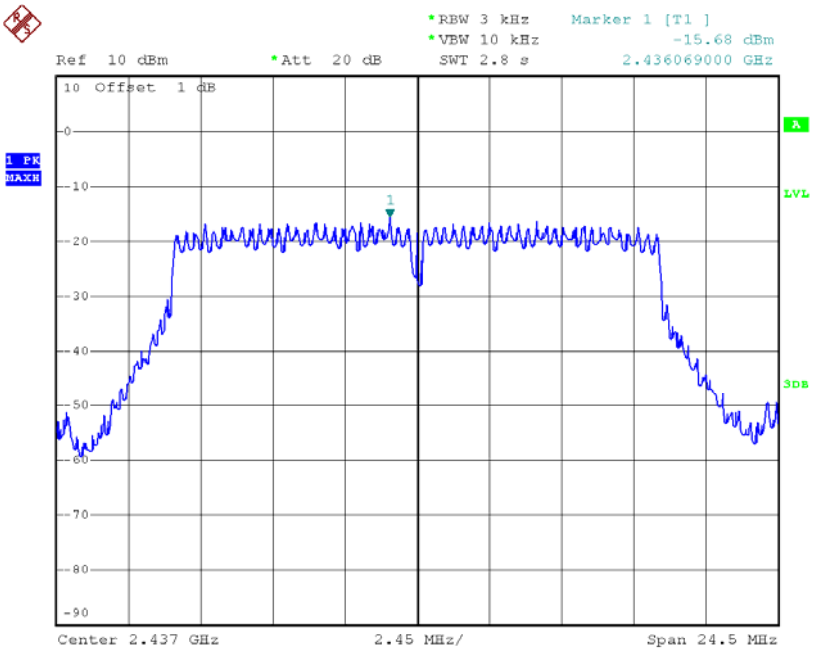
EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX G MODE /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-16.24	8
CH06	2437 MHz	-15.68	8
CH11	2462 MHz	-15.45	8

TX CH01

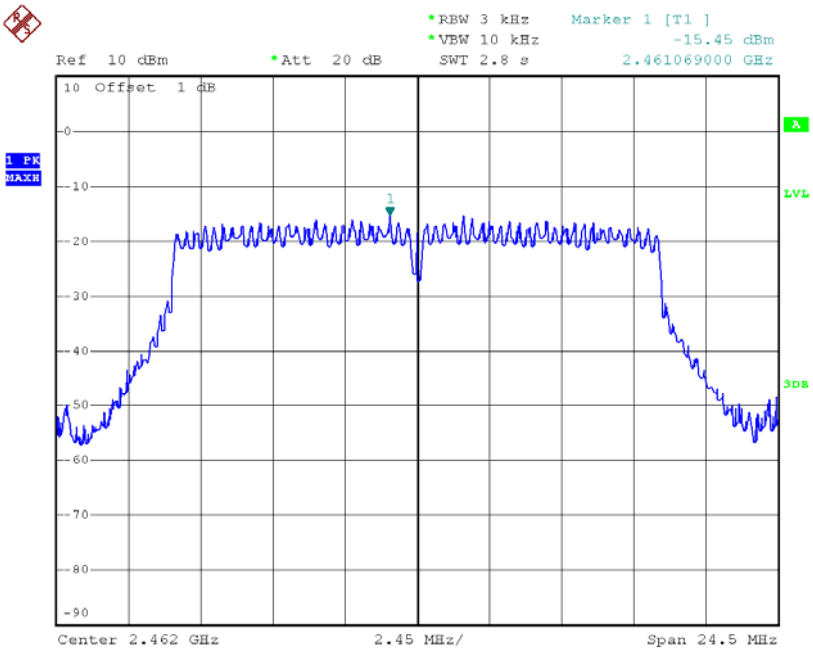


TX CH06



Date: 17.JAN.2013 17:09:46

TX CH11

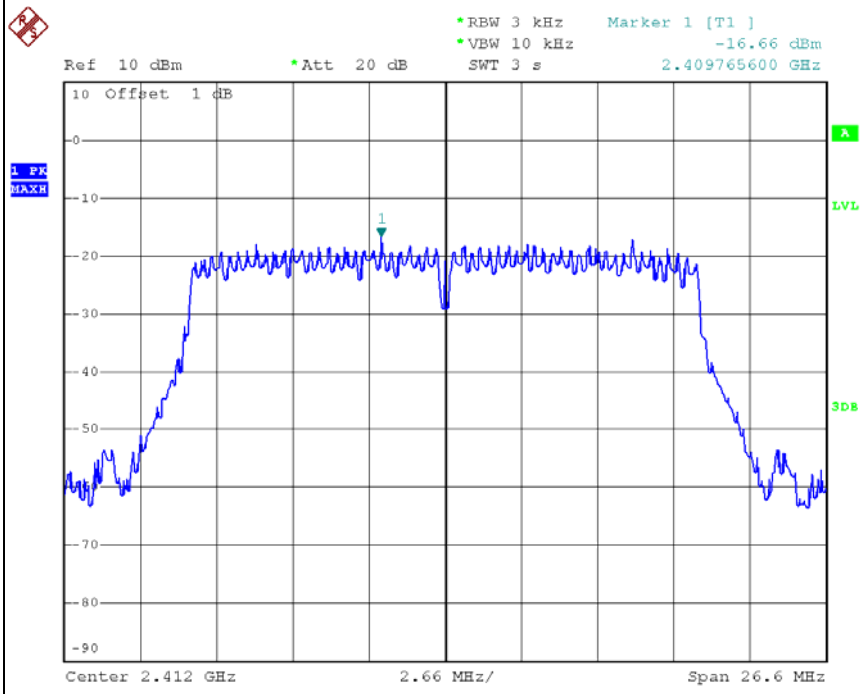


Date: 17.JAN.2013 17:11:45

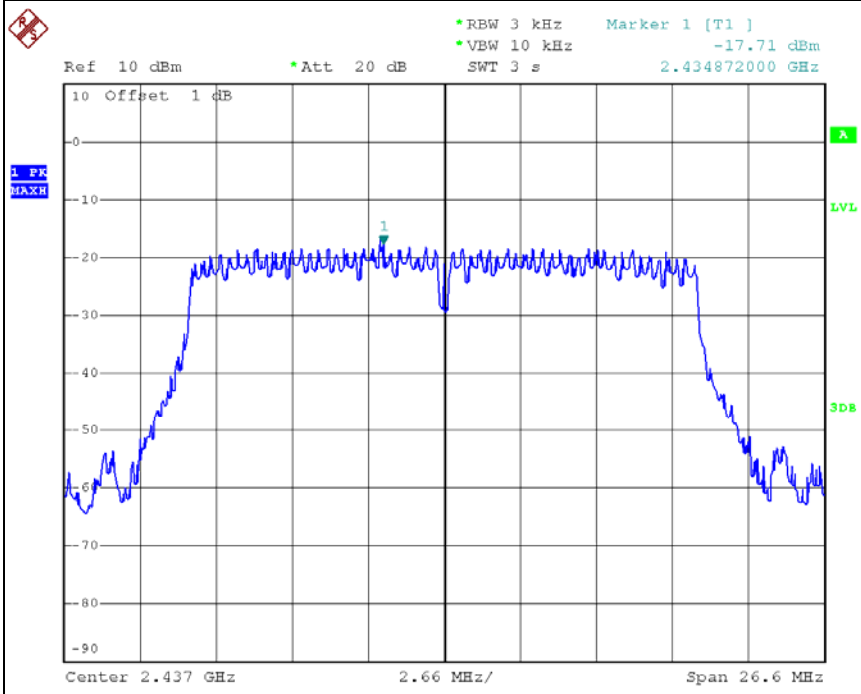
EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N MODE-20MHz /CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-16.66	8
CH06	2437 MHz	-17.71	8
CH11	2462 MHz	-16.29	8

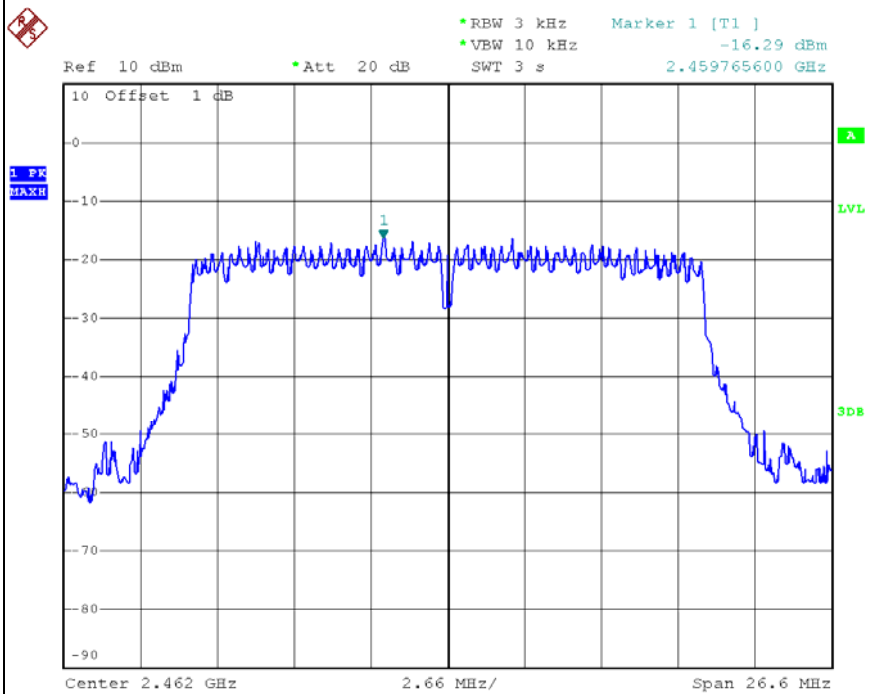
TX CH01



TX CH06



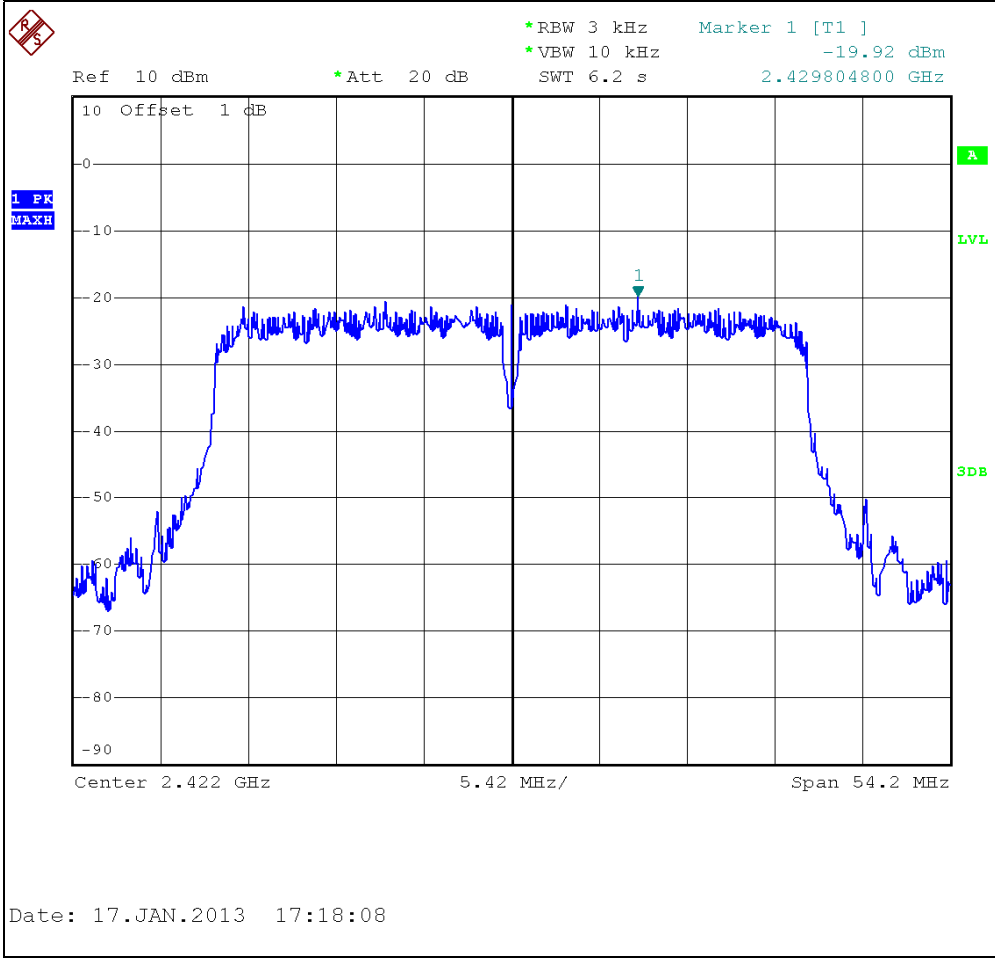
TX CH11



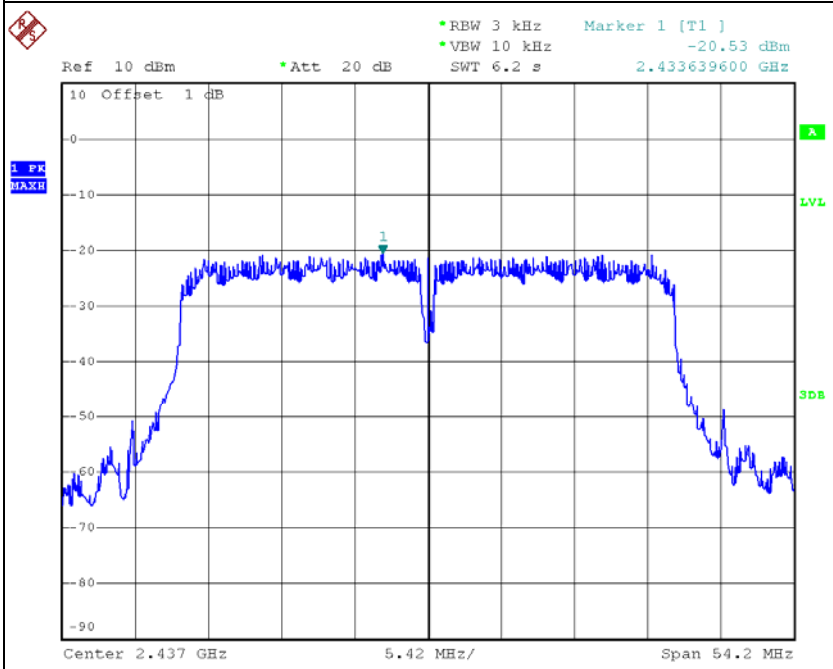
EUT：	WIFI-DISK With Power Bank	Model Name ：	THU-WIFI-S250UN
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX N MODE-40MHz /CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422 MHz	-19.92	8
CH06	2437 MHz	-20.53	8
CH09	2462 MHz	-19.80	8

TX CH03

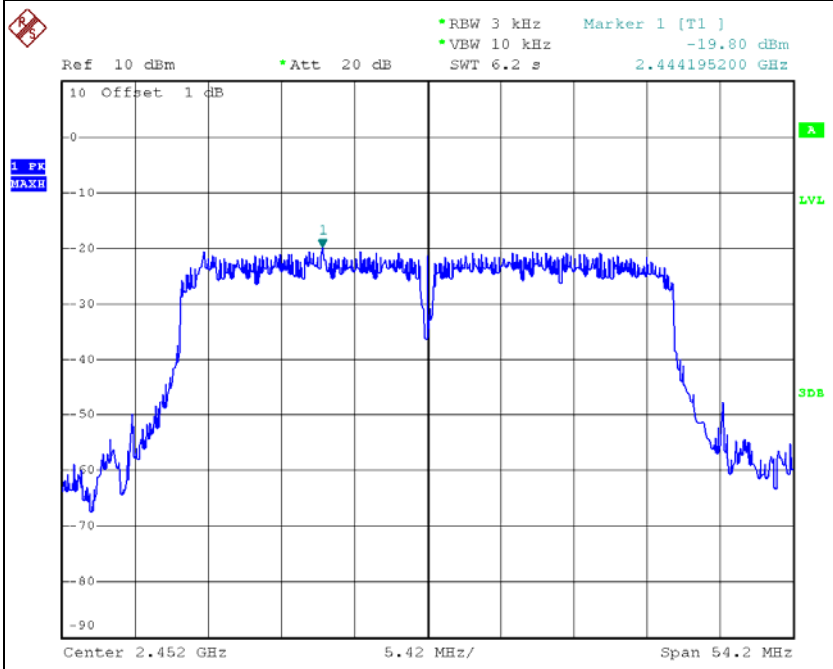


TX CH06



Date: 17.JAN.2013 17:18:33

TX CH09



Date: 17.JAN.2013 17:20:06

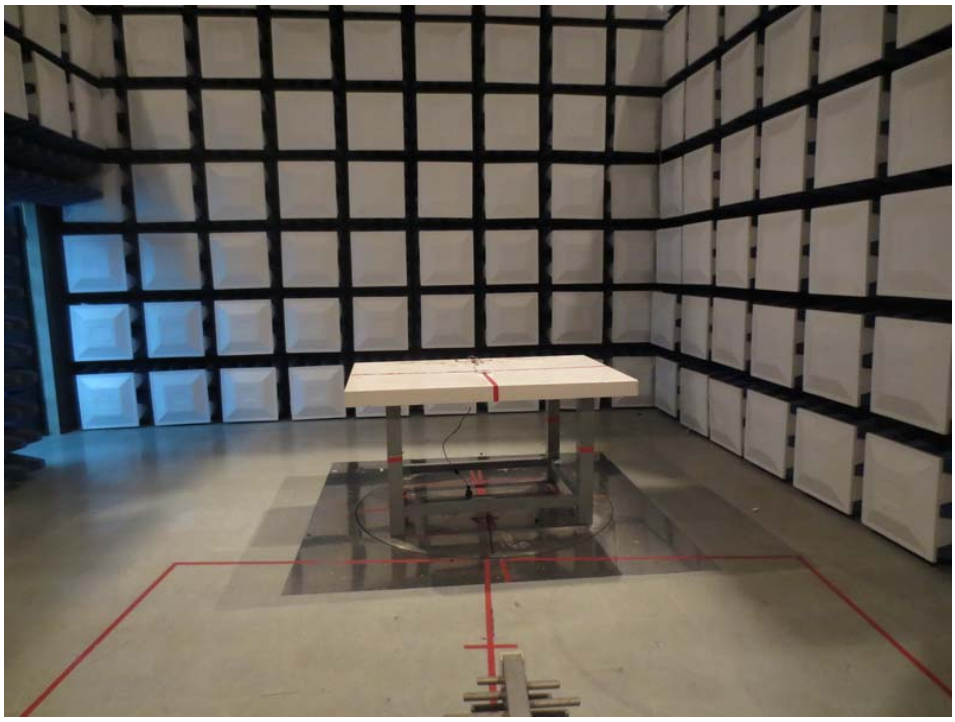
9. EUT TEST PHOTO

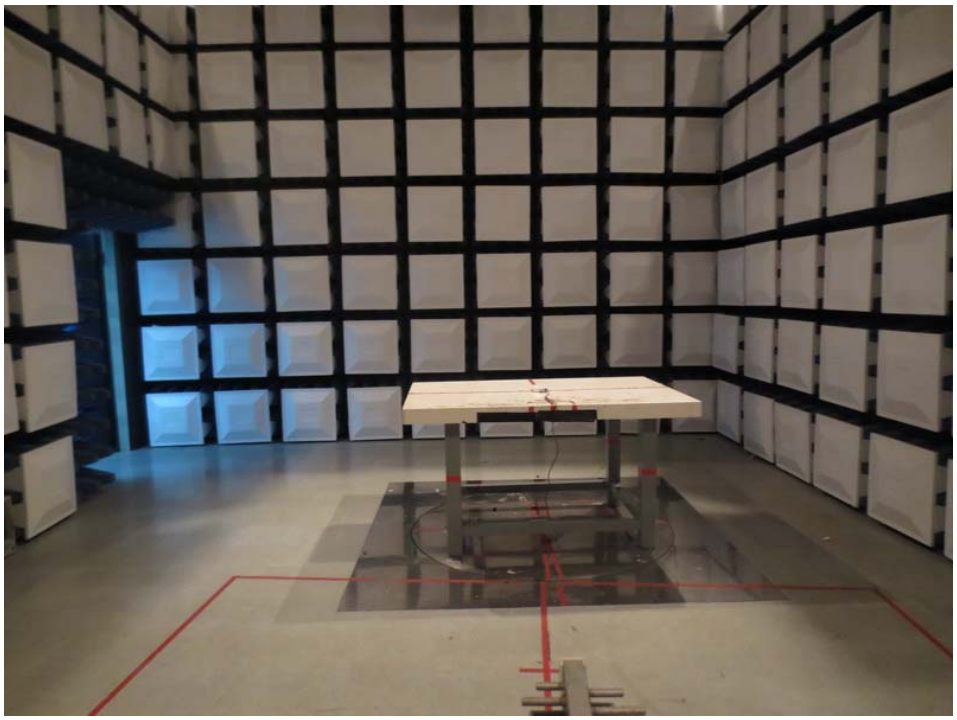
Conducted Measurement Photos
PC / USB2.0 READ&WRITE

Conducted Measurement Photos
PC / USB3.0 READ&WRITE

Conducted Measurement Photos
Adapter

Radiated Measurement Photos
30~1000MHz





Radiated Measurement Photos
Above 1000MHz