



# RADIO TEST REPORT

Report No: STS1805109W05

Issued for

TP-Link Technologies Co., Ltd.

Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and  
Technology Park, Shennan Road, Nanshan District,  
Shenzhen City, Guangdong Province, P.R. China

<b>Product Name:</b>	C7A FDD-LTE Smartphone
<b>Brand Name:</b>	neffos
<b>Model Name:</b>	TP705C
<b>Series Model:</b>	TP705CXYZZ
<b>FCC ID:</b>	TE7C7AV1
<b>Test Standard:</b>	FCC Part 15.247

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### TEST RESULT CERTIFICATION

**Applicant's name** .....: TP-Link Technologies Co., Ltd.  
**Address** .....: Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and Technology Park, Shennan Road, Nanshan District, Shenzhen City, Guangdong Province, P.R. China  
**Manufacture's Name** .....: TP-Link Technologies Co., Ltd.  
**Address** .....: Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and Technology Park, Shennan Road, Nanshan District, Shenzhen City, Guangdong Province, P.R. China

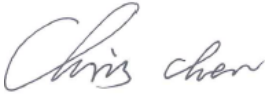
#### Product description

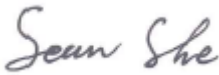
**Product Name**.....: C7A FDD-LTE Smartphone  
**Brand Name** .....: neffos  
**Model Name** .....: TP705C  
**Series Model**.....: TP705CXYZZ  
**Test Standards**.....: FCC Part15.247  
**Test procedure**..... ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test** .....:  
**Date (s) of performance of tests** .....: 09 May 2018~22 May 2018  
**Date of Issue** .....: 22 May 2018  
**Test Result**.....: **Pass**

Testing Engineer :   
 \_\_\_\_\_  
 ( Chris chen )

Technical Manager :   
 \_\_\_\_\_  
 ( Sean she )


Authorized Signatory :   
 \_\_\_\_\_  
 (Vita Li)

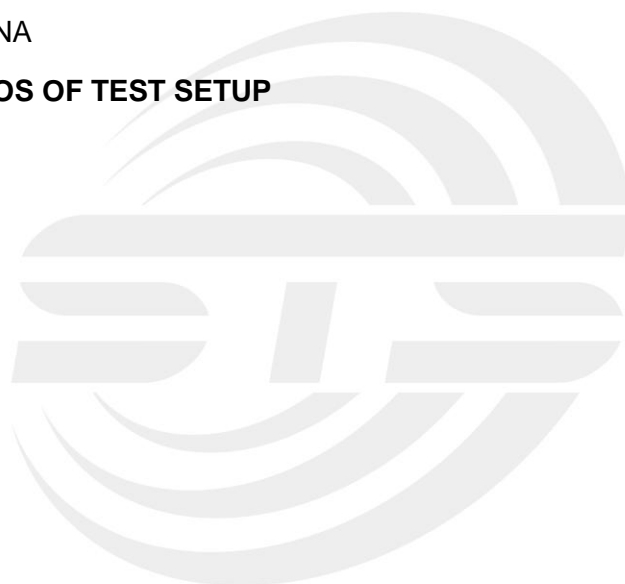




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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	22 May 2018	STS1805109W05	ALL	Initial Issue





## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:  
KDB 558074 D01 DTS Meas Guidance v04

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)(3)	Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.205	Restricted Band Edge Emission	PASS	
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

### NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) all tests are according to ANSI C63.10-2013 .



## 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,  
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649; FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

## 1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	$\pm 2.88\text{dB}$
2	Conducted Emission (150KHz-30MHz)	$\pm 2.67\text{dB}$
3	RF power,conducted	$\pm 0.71\text{dB}$
4	Spurious emissions,conducted	$\pm 0.63\text{dB}$
5	All emissions,radiated (9KHz-30MHz)	$\pm 3.02\text{dB}$
6	All emissions,radiated (30MHz-200MHz)	$\pm 3.80\text{dB}$
7	All emissions,radiated (200MHz-1000MHz)	$\pm 3.97\text{dB}$
8	All emissions,radiated(>1G)	$\pm 3.03\text{dB}$



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Product Name	C7A FDD-LTE Smartphone														
Trade Name	neffos														
Model Name	TP705C														
Series Model	TP705CXYZZ														
Model Difference	Description of Model Name Differentiation: X=2, indicates Grey Y=4, indicates the memory is 2G RAM + 16G Flash Z='A' to 'Z', ZZ indicates different regions or customers All models are same with electrical parameters and internal circuit structure.														
Product Description	<p>The EUT is a C7A FDD-LTE Smartphone</p> <table border="1"> <tr> <td>Operation Frequency:</td> <td>802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz</td> </tr> <tr> <td>Modulation Type:</td> <td>802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM</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 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5 Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5 Mbps</td> </tr> <tr> <td>Number Of Channel:</td> <td>802.11b/g/n20: 11CH 802.11n 40: 7CH</td> </tr> <tr> <td>Antenna Designation:</td> <td>Please see Note 3.</td> </tr> <tr> <td>Antenna Gain (dBi):</td> <td>-0.35dbi</td> </tr> <tr> <td>Duty Cycle:</td> <td>&gt;98%</td> </tr> </table>	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5 Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5 Mbps	Number Of Channel:	802.11b/g/n20: 11CH 802.11n 40: 7CH	Antenna Designation:	Please see Note 3.	Antenna Gain (dBi):	-0.35dbi	Duty Cycle:	>98%
Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz														
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Number Of Channel:	802.11b/g/n20: 11CH 802.11n 40: 7CH														
Antenna Designation:	Please see Note 3.														
Antenna Gain (dBi):	-0.35dbi														
Duty Cycle:	>98%														
Channel List	Please refer to the Note 2.														
Adapter	Power supply and ADP(rating): Input: AC 100V-240V, 50/60Hz, 200mA Output: DC 5V, 1000mA														
Battery	Battery(rating): Rated Voltage: 3.8V Charge Limit: 4.35V Capacity :2300mAh														
Hardware version number	B5002C_MAIN_PCB_V1.0														
Software version number	B5002C_TP-LINK_64_A1_V0.10.3.1_S0411														
Connecting I/O Port(s)	Please refer to the User's Manual														

Note:





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

2

Operation Frequency of channel			
802.11b/g/n(20MHz)		Channel List for 802.11n(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

3 Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

3

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	neffos	TP705C	PIFA Antenna	N/A	-0.35	WLAN Antenna



## 2.2 DESCRIPTION OF TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V /60Hz is shown in the report

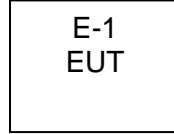
### AC Conducted Emission

Test Case	
AC Conducted Emission	Mode13: Keeping WIFI TX

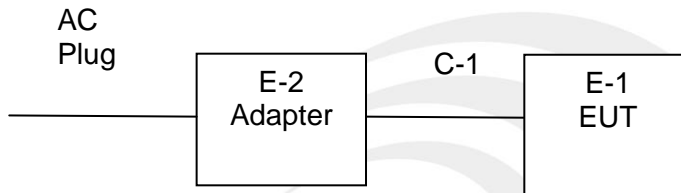


### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

#### Radiated Spurious Emission Test



#### Conducted Emission Test





## 2.4 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.	Serial No.	Note
E-2	Adapter	neffos	A8-501000	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	100cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESW	101535	2017.06.01	2018.05.31
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.10.27	2018.10.26
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	N/A	2018.03.11	2019.03.10
Temperature & Humidity	HH660	Mieo	N/A	2017.10.15	2018.10.14
Temperature & Humidity	HH660	Mieo	N/A	2017.10.15	2018.10.14
Pre-mpifier (0.1M-3GHz)	EM	EM330	60538	2018.03.11	2019.03.10
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14
Passive Loop (9K--30MHz)	ZHNAN	ZN3090C	16035	2018.03.11	2019.03.10
Low frequency cable	EM	R01	N/A	2018.03.11	2019.03.10
Low frequency cable	EM	R06	N/A	2018.03.11	2019.03.10
High frequency cable	SCHWARZBECK	R04	N/A	2018.03.11	2019.03.10
High frequency cable	SCHWARZBECK	R02	N/A	2018.03.11	2019.03.10
Semi-anechoic chamber	Changling	966	N/A	2017.10.15	2018.10.14
trun table	EM	SC100_1	60531	N/A	N/A
Antnna mast	EM	SC100	N/A	N/A	N/A
Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A

### Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
conduction Cable	EM	C01	N/A	2018.03.11	2019.03.10
Temperature & Humidity	Mieo	HH660	N/A	2017.10.15	2018.10.14



## RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2017.10.15	2018.10.14
Power Meter	R&S	NRP	100510	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	N9020A	MY51110105	2018.03.08	2019.03.07
Signal Analyzer	Agilent	N9020A	MY49100060	2017.10.15	2018.10.14





### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15.207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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.

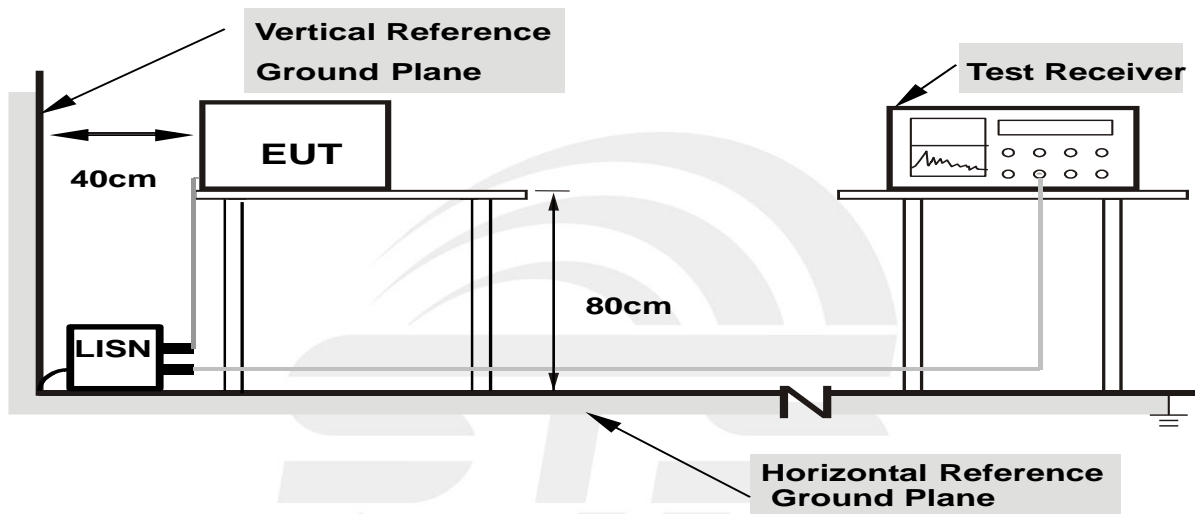
The following table is the setting of the receiver

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

### 3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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.

### 3.1.3 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**

### 3.1.4 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.





### 3.1.5 TEST RESULT

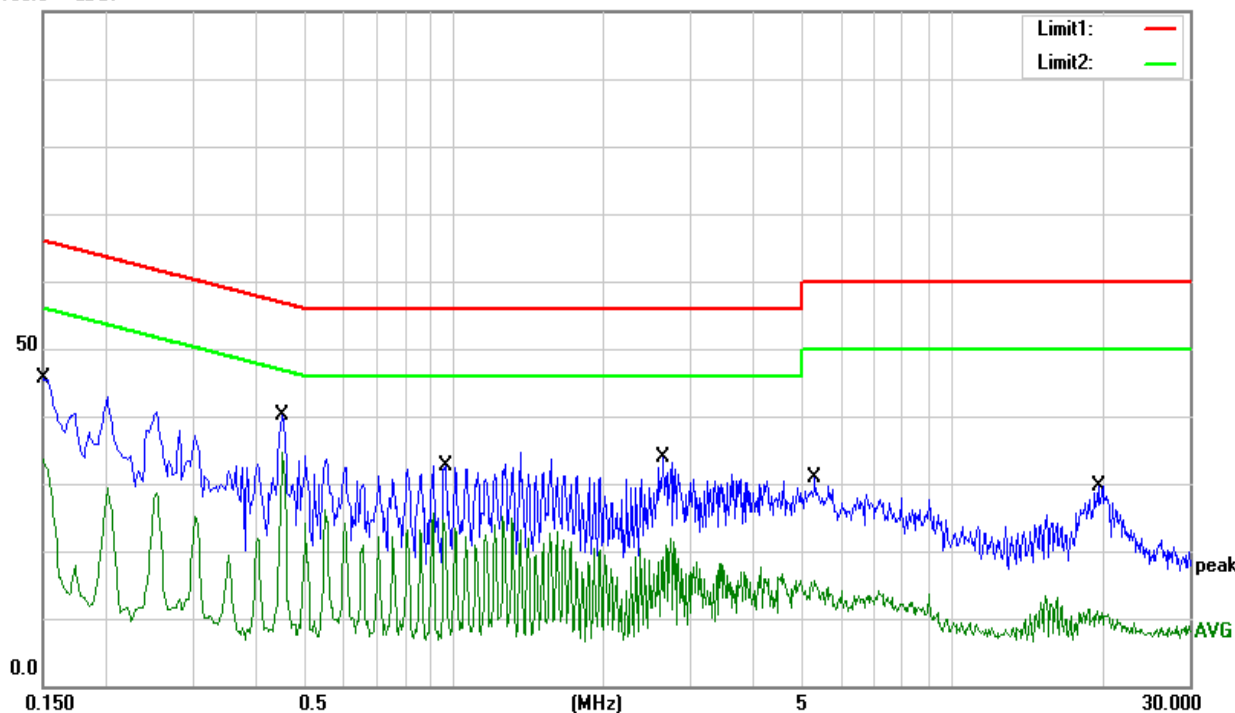
Temperature:	24 °C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
0.1500	35.78	9.75	45.53	66.00	-20.47	QP
0.1500	23.76	9.75	33.51	56.00	-22.49	AVG
0.4540	30.15	10.02	40.17	56.80	-16.63	QP
0.4540	24.50	10.02	34.52	46.80	-12.28	AVG
0.9660	22.82	9.81	32.63	56.00	-23.37	QP
0.9660	12.28	9.81	22.09	46.00	-23.91	AVG
2.6380	23.94	9.90	33.84	56.00	-22.16	QP
2.6380	5.01	9.90	14.91	46.00	-31.09	AVG
5.3140	20.92	9.91	30.83	60.00	-29.17	QP
5.3140	5.21	9.91	15.12	50.00	-34.88	AVG
19.6780	19.22	10.45	29.67	60.00	-30.33	QP
19.6780	-1.17	10.45	9.28	50.00	-40.72	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor )–Limit

100.0 dBUV





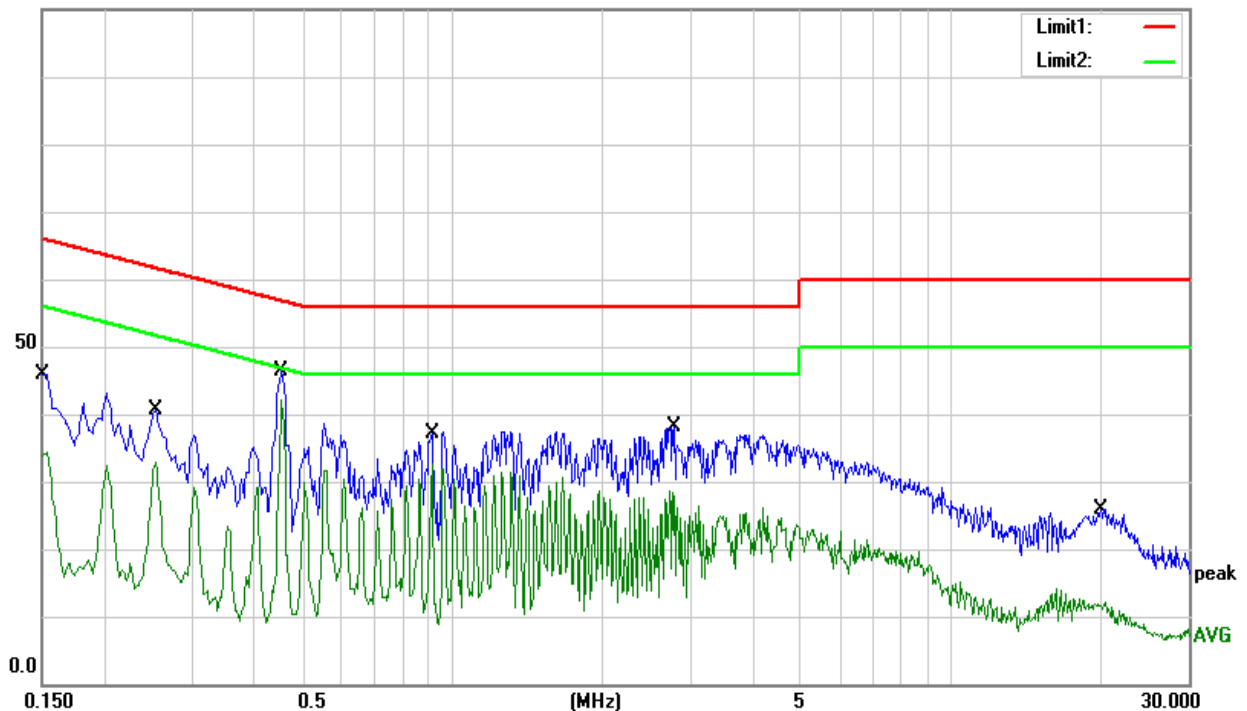
Temperature:	24 °C	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1500	36.14	9.75	45.89	66.00	-20.11	QP
0.1500	24.11	9.75	33.86	56.00	-22.14	AVG
0.2540	30.56	10.09	40.65	61.63	-20.98	QP
0.2540	22.83	10.09	32.92	51.63	-18.71	AVG
0.4540	36.36	10.02	46.38	56.80	-10.42	QP
0.4540	31.98	10.02	42.00	46.80	-4.80	AVG
0.9100	27.36	9.82	37.18	56.00	-18.82	QP
0.9100	19.17	9.82	28.99	46.00	-17.01	AVG
2.7820	28.31	9.90	38.21	56.00	-17.79	QP
2.7820	18.01	9.90	27.91	46.00	-18.09	AVG
19.9860	15.45	10.47	25.92	60.00	-34.08	QP
19.9860	0.64	10.47	11.11	50.00	-38.89	AVG

Remark:

- All readings are Quasi-Peak and Average values.
- Margin = Result (Result = Reading + Factor) - Limit

100.0 dBuV





### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (microlvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

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).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz /3MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2412 MHz Upper Band Edge: 2462 to 2500 MHz
RB / VB (emission in restricted band)	1 MHz /3MHz



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

### 3.2.2 TEST PROCEDURE

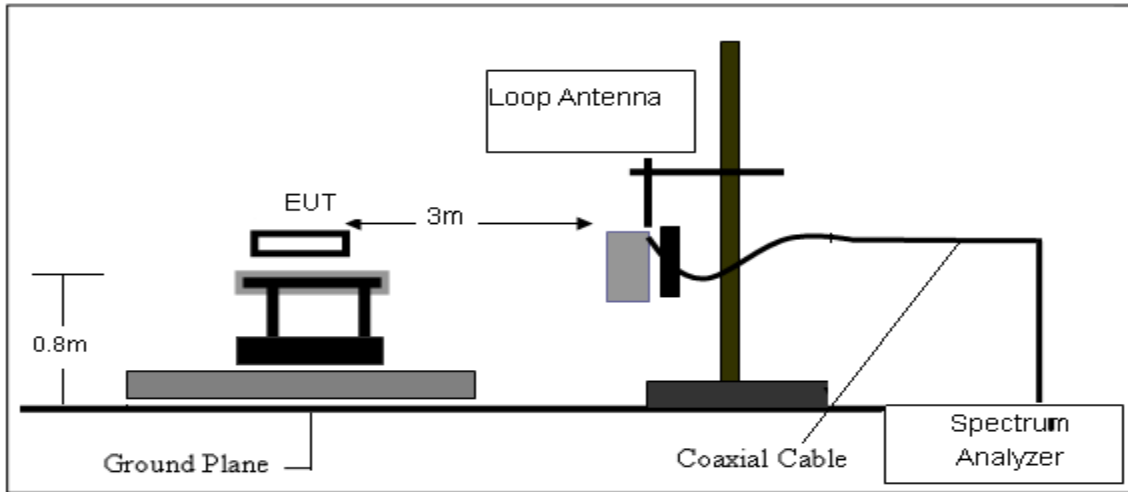
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. 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.

Note:

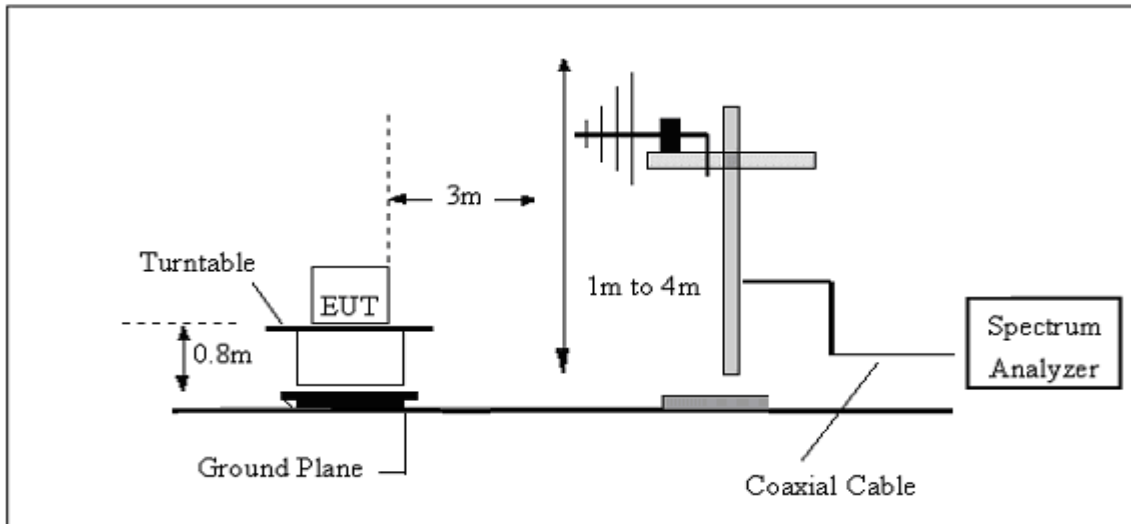
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

### 3.2.3 TEST SETUP

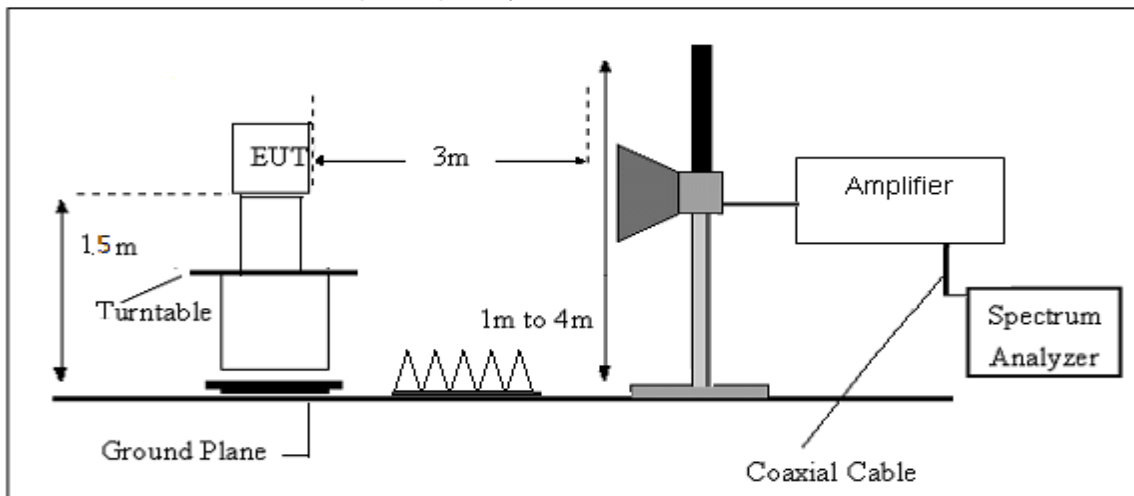
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



### 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



### 3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dB $\mu$ V/m)	RA (dB $\mu$ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$





## 3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	24 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Polarization:	--
Test Mode:	TX Mode		

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F	Test Result
--	--	--	--	--	PASS
--	--	--	--	--	PASS

## Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.



(30MHz - 1000MHz)

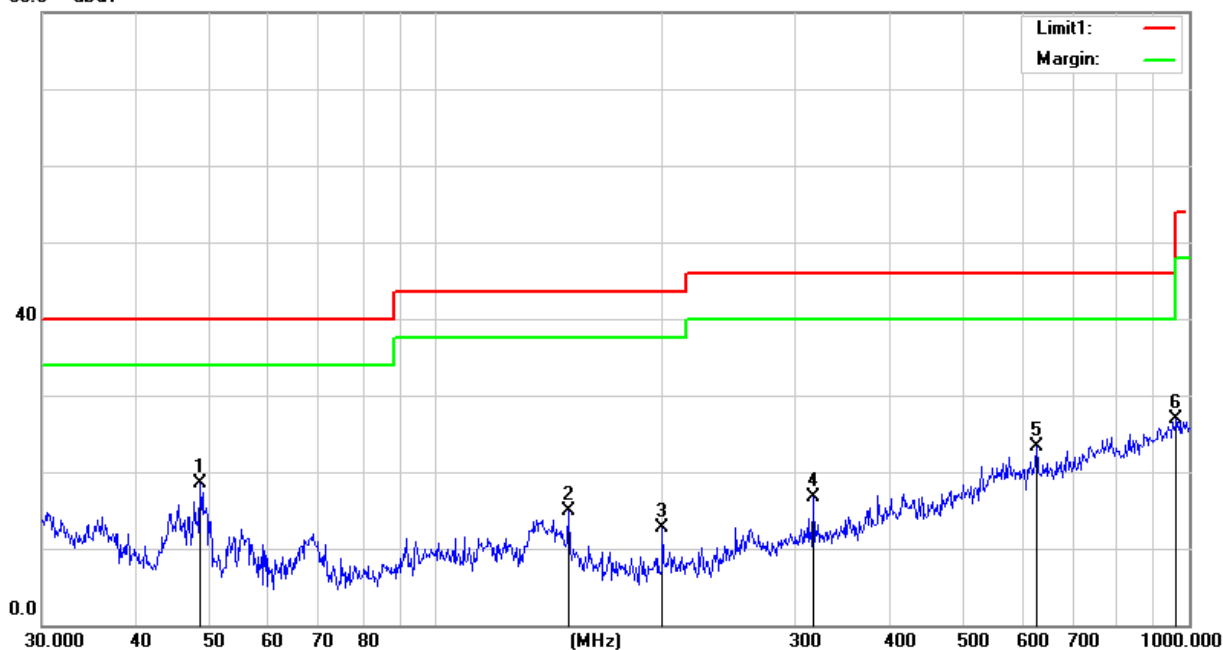
Temperature:	26.1 °C	Relative Humidity:	64%
Test Voltage:	DC 3.8V From Battery	Polarization:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12(Mode 2-1M worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
48.6720	39.39	-20.80	18.59	40.00	-21.41	QP
150.0108	32.87	-17.97	14.90	43.50	-28.60	QP
199.9856	32.79	-20.17	12.62	43.50	-30.88	QP
316.5890	31.02	-14.28	16.74	46.00	-29.26	QP
627.2738	29.79	-6.42	23.37	46.00	-22.63	QP
962.1623	27.10	-0.12	26.98	54.00	-27.02	QP

Remark:

1. Margin = Result (Result =Reading + Factor )–Limit

80.0 dBuV







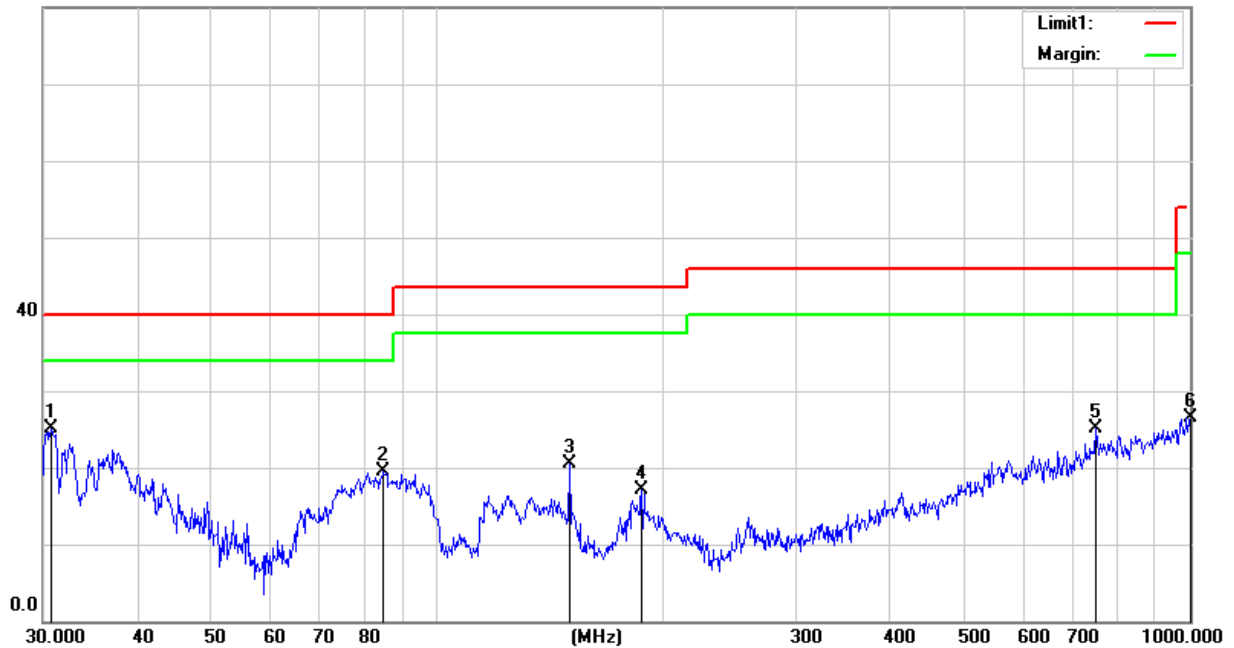
Temperature:	26.1 °C	Relative Humidity:	64%
Test Voltage:	DC 3.8V From Battery	Polarization:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12(Mode 2-1M worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.7455	36.70	-11.57	25.13	40.00	-14.87	QP
84.9995	40.91	-21.45	19.46	40.00	-20.54	QP
150.0108	38.52	-17.97	20.55	43.50	-22.95	QP
187.0958	37.05	-20.02	17.03	43.50	-26.47	QP
750.1083	28.69	-3.56	25.13	46.00	-20.87	QP
1000.0000	26.60	-0.07	26.53	54.00	-27.47	QP

Remark:.

1. Margin = Result (Result =Reading + Factor )–Limit

80.0 dBuV





(1000MHz-25GHz) Restricted band and Spurious emission Requirements

802.11b Low Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2412 MHz)										
3264.72	49.28	44.70	6.70	28.20	-9.80	39.48	74.00	-34.52	PK	Vertical
3264.72	39.42	44.70	6.70	28.20	-9.80	29.62	54.00	-24.38	AV	Vertical
3264.69	47.79	44.70	6.70	28.20	-9.80	37.99	74.00	-36.01	PK	Horizontal
3264.69	38.67	44.70	6.70	28.20	-9.80	28.87	54.00	-25.13	AV	Horizontal
4824.45	58.50	44.20	9.04	31.60	-3.56	54.94	74.00	-19.06	PK	Vertical
4824.45	39.03	44.20	9.04	31.60	-3.56	35.47	54.00	-18.53	AV	Vertical
4824.54	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Horizontal
4824.54	38.95	44.20	9.04	31.60	-3.56	35.39	54.00	-18.61	AV	Horizontal
5359.78	45.21	44.20	9.86	32.00	-2.34	42.87	74.00	-31.13	PK	Vertical
5359.78	38.39	44.20	9.86	32.00	-2.34	36.05	54.00	-17.95	AV	Vertical
5359.62	45.87	44.20	9.86	32.00	-2.34	43.53	74.00	-30.47	PK	Horizontal
5359.62	37.77	44.20	9.86	32.00	-2.34	35.43	54.00	-18.57	AV	Horizontal
7235.88	51.89	43.50	11.40	35.50	3.40	55.29	74.00	-18.71	PK	Vertical
7235.88	33.45	43.50	11.40	35.50	3.40	36.85	54.00	-17.15	AV	Vertical
7235.71	51.69	43.50	11.40	35.50	3.40	55.09	74.00	-18.91	PK	Horizontal
7235.69	31.27	43.50	11.40	35.50	3.40	34.67	54.00	-19.33	AV	Horizontal



### 802.11b Mid Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna	Corrected	Emission	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
				Factor (dB/m)	Factor (dB)	Level (dBμV/m)				
Mid Channel (2437 MHz)										
3264.61	48.70	44.70	6.70	28.20	-9.80	38.90	74.00	-35.10	PK	Vertical
3264.61	39.21	44.70	6.70	28.20	-9.80	29.41	54.00	-24.59	AV	Vertical
3264.76	48.57	44.70	6.70	28.20	-9.80	38.77	74.00	-35.23	PK	Horizontal
3264.76	37.93	44.70	6.70	28.20	-9.80	28.13	54.00	-25.87	AV	Horizontal
4874.32	59.47	44.20	9.04	31.60	-3.56	55.91	74.00	-18.09	PK	Vertical
4874.32	38.58	44.20	9.04	31.60	-3.56	35.02	54.00	-18.98	AV	Vertical
4874.47	58.36	44.20	9.04	31.60	-3.56	54.80	74.00	-19.20	PK	Horizontal
4874.47	38.80	44.20	9.04	31.60	-3.56	35.24	54.00	-18.76	AV	Horizontal
5359.75	46.19	44.20	9.86	32.00	-2.34	43.85	74.00	-30.15	PK	Vertical
5359.75	36.95	44.20	9.86	32.00	-2.34	34.61	54.00	-19.39	AV	Vertical
5359.85	45.74	44.20	9.86	32.00	-2.34	43.40	74.00	-30.60	PK	Horizontal
5359.85	37.62	44.20	9.86	32.00	-2.34	35.28	54.00	-18.72	AV	Horizontal
7310.90	50.56	43.50	11.40	35.50	3.40	53.96	74.00	-20.04	PK	Vertical
7310.90	33.37	43.50	11.40	35.50	3.40	36.77	54.00	-17.23	AV	Vertical
7310.83	51.42	43.50	11.40	35.50	3.40	54.82	74.00	-19.18	PK	Horizontal
7310.83	33.09	43.50	11.40	35.50	3.40	36.49	54.00	-17.51	AV	Horizontal



## 802.11b High Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna	Corrected	Emission				
				Factor (dB/m)	Factor (dB)	Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
High Channel (2462 MHz)										
3264.69	48.25	44.70	6.70	28.20	-9.80	38.45	74.00	-35.55	PK	Vertical
3264.69	38.20	44.70	6.70	28.20	-9.80	28.40	54.00	-25.60	AV	Vertical
3264.60	49.20	44.70	6.70	28.20	-9.80	39.40	74.00	-34.60	PK	Horizontal
3264.60	39.02	44.70	6.70	28.20	-9.80	29.22	54.00	-24.78	AV	Horizontal
4924.29	59.21	44.20	9.04	31.60	-3.56	55.65	74.00	-18.35	PK	Vertical
4924.29	39.07	44.20	9.04	31.60	-3.56	35.51	54.00	-18.49	AV	Vertical
4924.42	58.83	44.20	9.04	31.60	-3.56	55.27	74.00	-18.73	PK	Horizontal
4924.42	38.74	44.20	9.04	31.60	-3.56	35.18	54.00	-18.82	AV	Horizontal
5359.71	46.05	44.20	9.86	32.00	-2.34	43.71	74.00	-30.29	PK	Vertical
5359.71	38.25	44.20	9.86	32.00	-2.34	35.91	54.00	-18.09	AV	Vertical
5359.73	46.00	44.20	9.86	32.00	-2.34	43.66	74.00	-30.34	PK	Horizontal
5359.73	37.90	44.20	9.86	32.00	-2.34	35.56	54.00	-18.44	AV	Horizontal
7385.98	51.06	43.50	11.40	35.50	3.40	54.46	74.00	-19.54	PK	Vertical
7385.98	32.53	43.50	11.40	35.50	3.40	35.93	54.00	-18.07	AV	Vertical
7385.75	50.49	43.50	11.40	35.50	3.40	53.89	74.00	-20.11	PK	Horizontal
7385.75	33.54	43.50	11.40	35.50	3.40	36.94	54.00	-17.06	AV	Horizontal

## Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Scan with 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) the worst case is 802.11b.  
Emission Level = Reading + Factor  
Margin = Limit - Emission Level
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

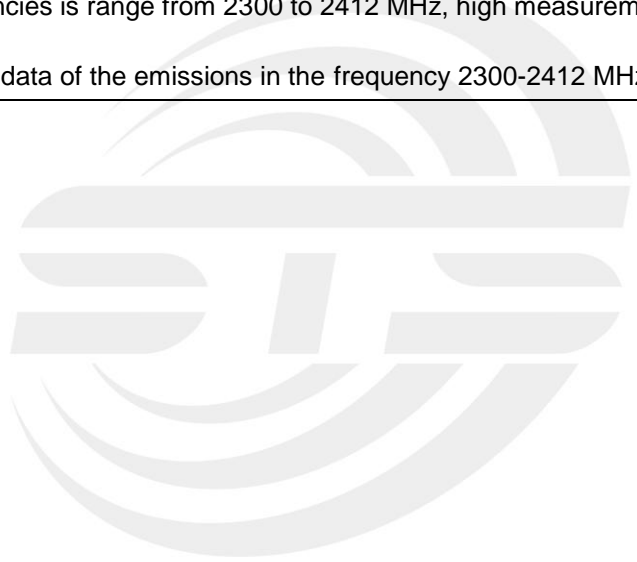


3.2.6 TEST RESULTS (Band edge Requirements)

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
802.11b										
2390.00	67.36	43.80	4.91	25.90	-12.99	54.37	74.00	-19.63	PK	Vertical
2390.00	53.73	43.80	4.91	25.90	-12.99	40.74	54.00	-13.26	AV	Vertical
2390.00	68.98	43.80	4.91	25.90	-12.99	55.99	74.00	-18.01	PK	Horizontal
2390.00	52.56	43.80	4.91	25.90	-12.99	39.57	54.00	-14.43	AV	Horizontal
2483.50	69.60	43.80	5.12	25.90	-12.78	56.82	74.00	-17.18	PK	Vertical
2483.50	53.44	43.80	5.12	25.90	-12.78	40.66	54.00	-13.34	AV	Vertical
2483.50	69.38	43.80	5.12	25.90	-12.78	56.60	74.00	-17.40	PK	Horizontal
2483.50	53.19	43.80	5.12	25.90	-12.78	40.41	54.00	-13.59	AV	Horizontal
802.11g										
2390.00	66.47	43.80	4.91	25.90	-12.99	53.48	74.00	-20.52	PK	Vertical
2390.00	53.52	43.80	4.91	25.90	-12.99	40.53	54.00	-13.47	AV	Vertical
2390.00	66.17	43.80	4.91	25.90	-12.99	53.18	74.00	-20.82	PK	Horizontal
2390.00	53.81	43.80	4.91	25.90	-12.99	40.82	54.00	-13.18	AV	Horizontal
2483.50	66.12	43.80	5.12	25.90	-12.78	53.34	74.00	-20.66	PK	Vertical
2483.50	52.73	43.80	5.12	25.90	-12.78	39.95	54.00	-14.05	AV	Vertical
2483.50	65.47	43.80	5.12	25.90	-12.78	52.69	74.00	-21.31	PK	Horizontal
2483.50	53.31	43.80	5.12	25.90	-12.78	40.53	54.00	-13.47	AV	Horizontal
802.11n20										
2390.00	66.07	43.80	4.91	25.90	-12.99	53.08	74.00	-20.92	PK	Vertical
2390.00	53.58	43.80	4.91	25.90	-12.99	40.59	54.00	-13.41	AV	Vertical
2390.00	65.13	43.80	4.91	25.90	-12.99	52.14	74.00	-21.86	PK	Horizontal
2390.00	52.98	43.80	4.91	25.90	-12.99	39.99	54.00	-14.01	AV	Horizontal
2483.50	65.77	43.80	5.12	25.90	-12.78	52.99	74.00	-21.01	PK	Vertical
2483.50	52.53	43.80	5.12	25.90	-12.78	39.75	54.00	-14.25	AV	Vertical
2483.50	65.07	43.80	5.12	25.90	-12.78	52.29	74.00	-21.71	PK	Horizontal
2483.50	53.08	43.80	5.12	25.90	-12.78	40.30	54.00	-13.70	AV	Horizontal



Frequency (MHz)	Reading (dBµV)	Amplifier (dB)	Loss (dB)	Antenna	Corrected	Emission		Margin (dB)	Detector Type	Comment
				Factor (dB/m)	Factor (dB)	Level (dBµV/m)	Limits (dBµV/m)			
802.11n40										
2390.00	66.99	43.80	4.91	25.90	-12.99	54.00	74.00	-20.00	PK	Vertical
2390.00	52.65	43.80	4.91	25.90	-12.99	39.66	54.00	-14.34	AV	Vertical
2390.00	65.93	43.80	4.91	25.90	-12.99	52.94	74.00	-21.06	PK	Horizontal
2390.00	53.68	43.80	4.91	25.90	-12.99	40.69	54.00	-13.31	AV	Horizontal
2483.50	65.09	43.80	5.12	25.90	-12.78	52.31	74.00	-21.69	PK	Vertical
2483.50	52.48	43.80	5.12	25.90	-12.78	39.70	54.00	-14.30	AV	Vertical
2483.50	66.30	43.80	5.12	25.90	-12.78	53.52	74.00	-20.48	PK	Horizontal
2483.50	53.38	43.80	5.12	25.90	-12.78	40.60	54.00	-13.40	AV	Horizontal
<p>Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.            Low measurement frequencies is range from 2300 to 2412 MHz, high measurement frequencies is range from 2462 to 2500 MHz.            Only show the worst point data of the emissions in the frequency 2300-2412 MHz and 2462-2500 MHz.</p>										



#### 4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

##### 4.1 APPLIED PROCEDURES / LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

##### 4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

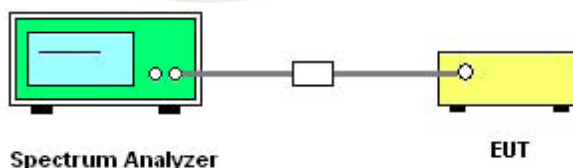
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2412 MHz Upper Band Edge: 2462 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

##### 4.3 DEVIATION FROM STANDARD

No deviation.

##### 4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

##### 4.5 EUT OPERATION CONDITIONS

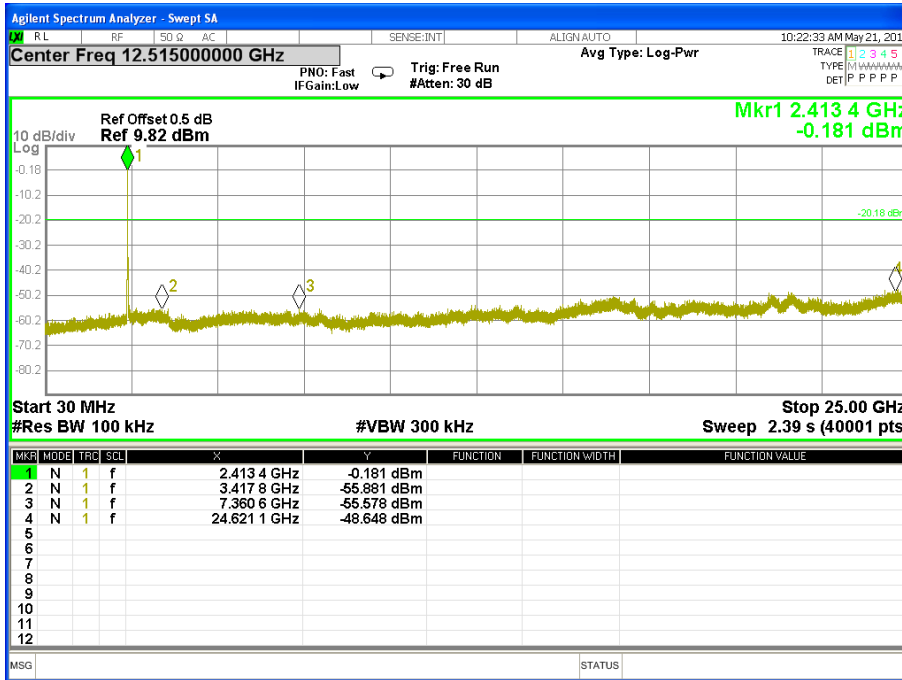
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



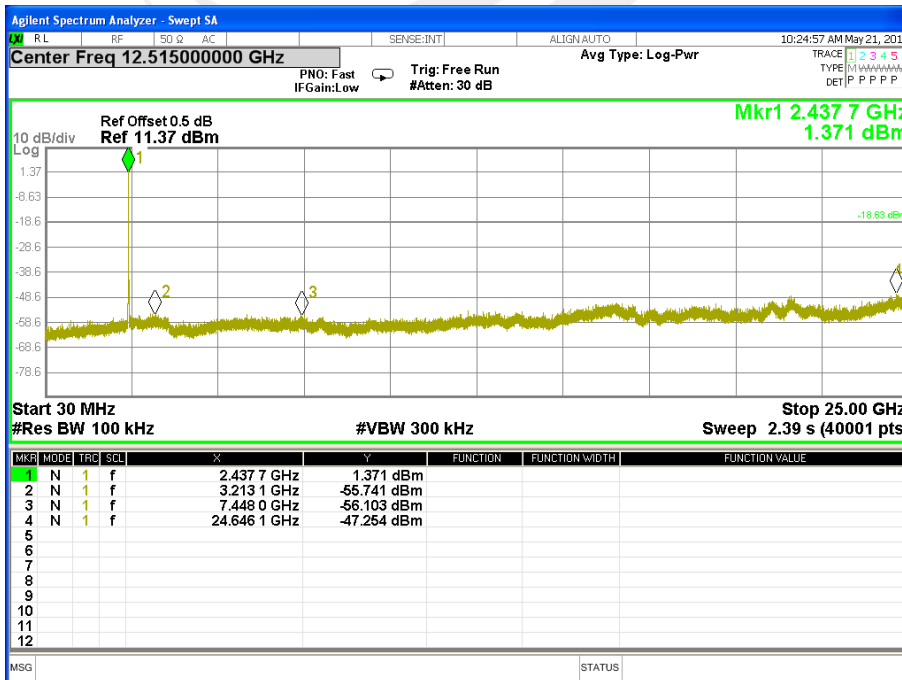
4.6 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX b Mode /CH01, CH06, CH11

CH 01



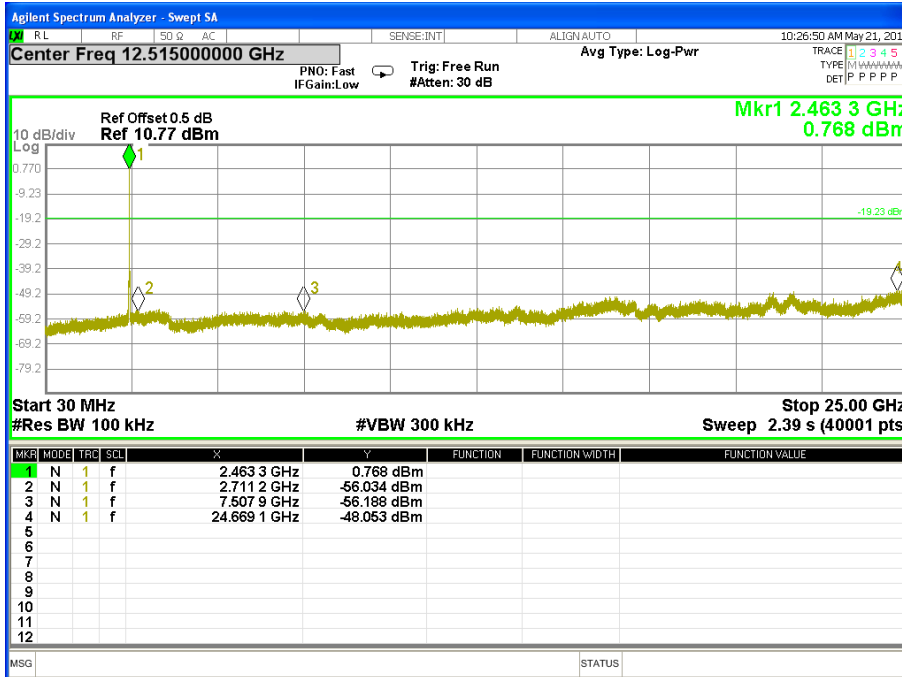
CH 06







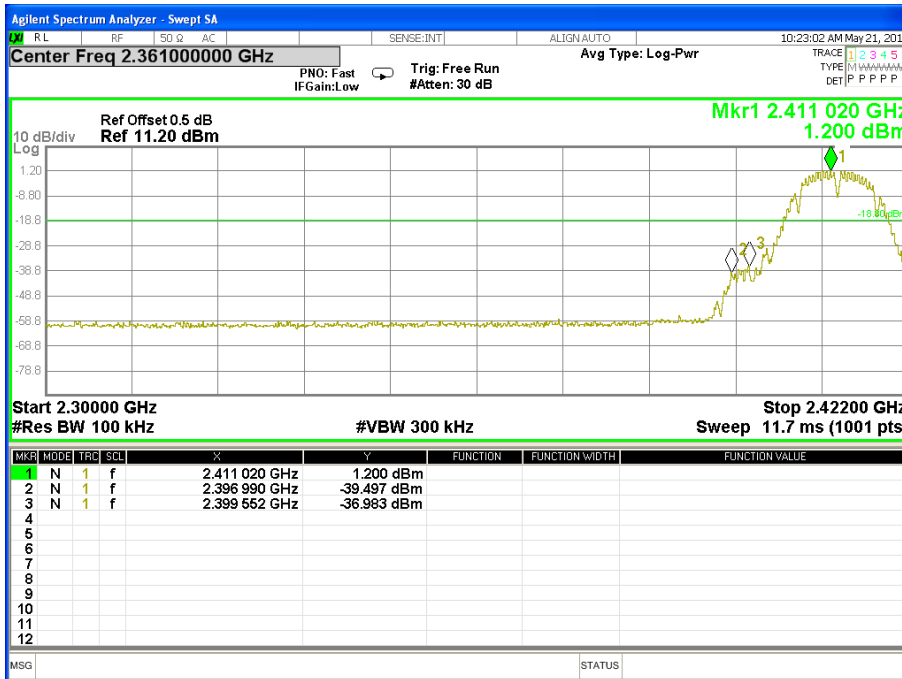
CH 11



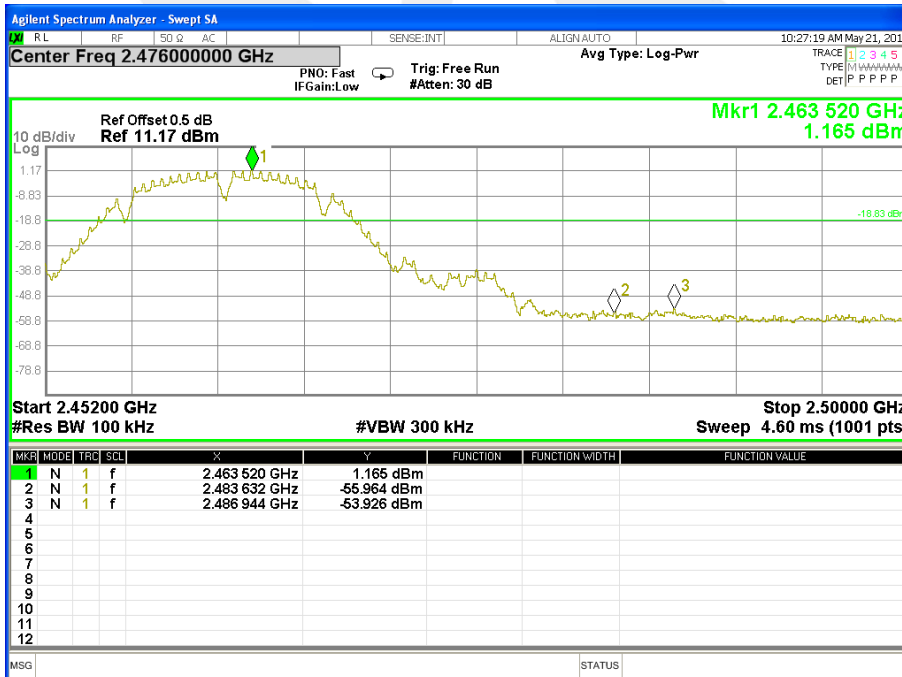


Band edge

CH 01



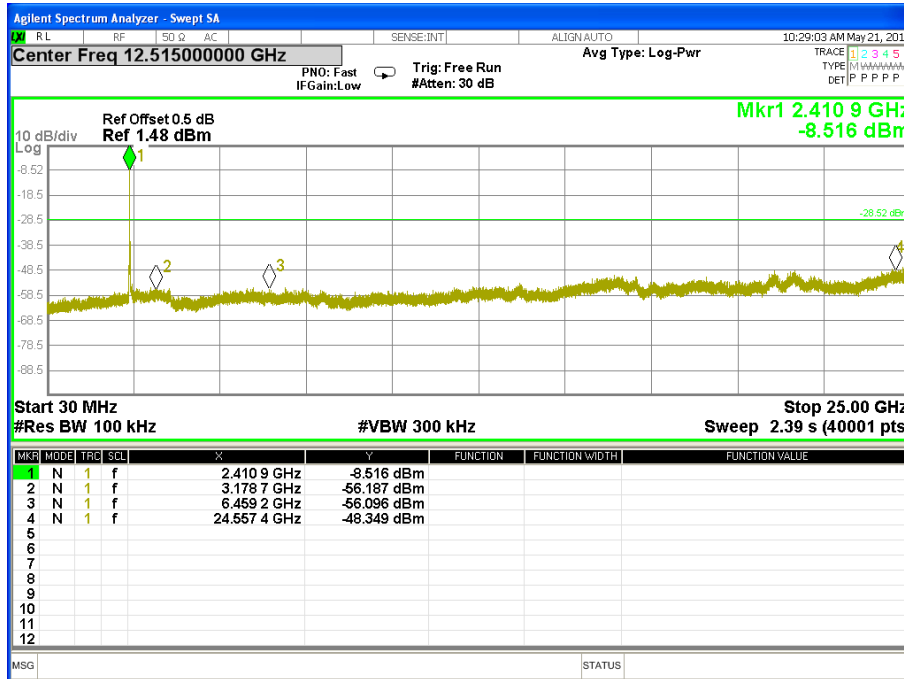
CH 11



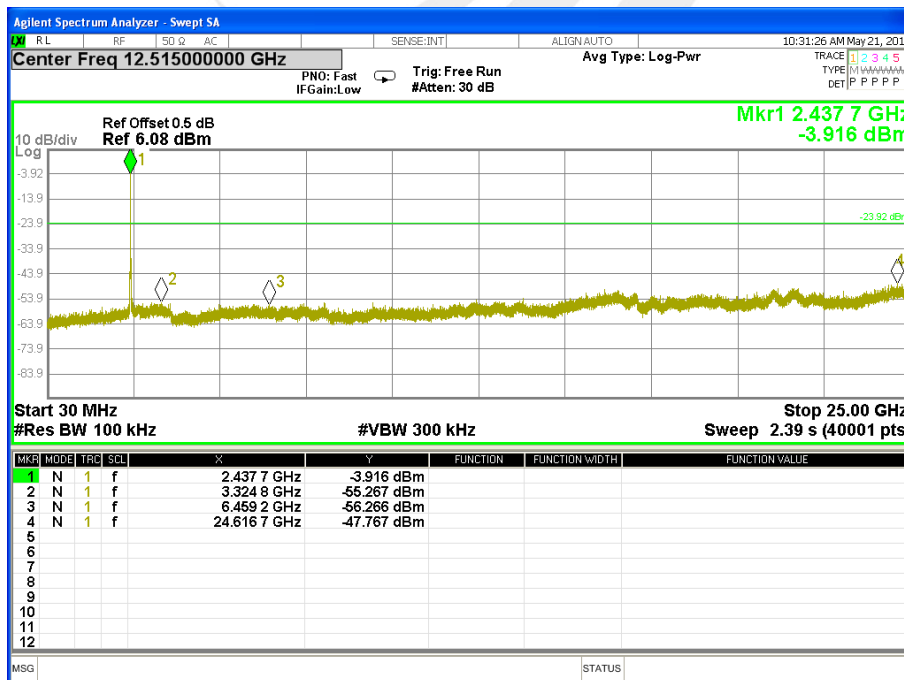


Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX g Mode /CH01, CH06, CH11

CH 01

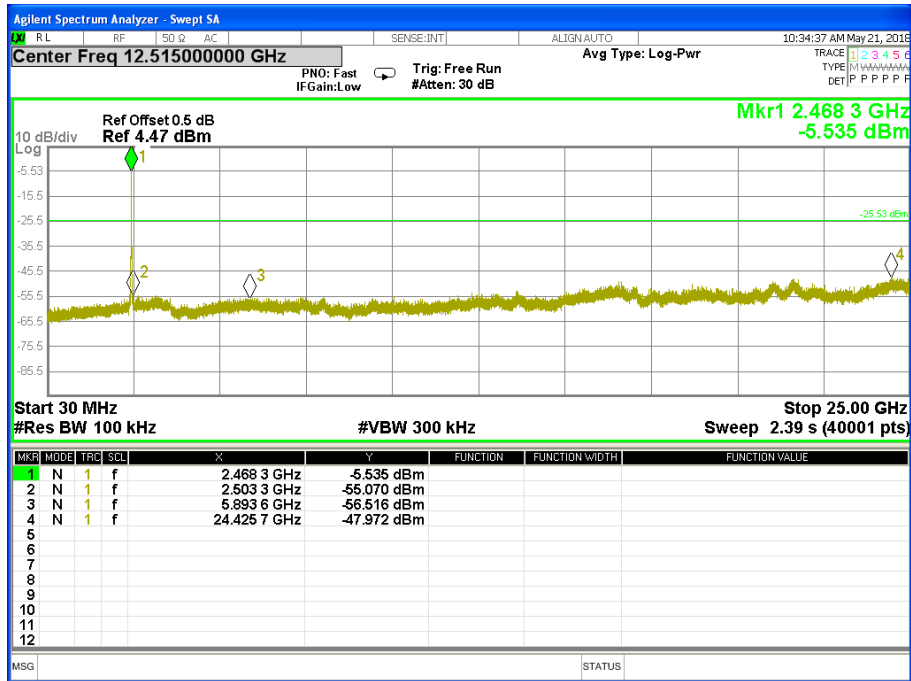


CH06





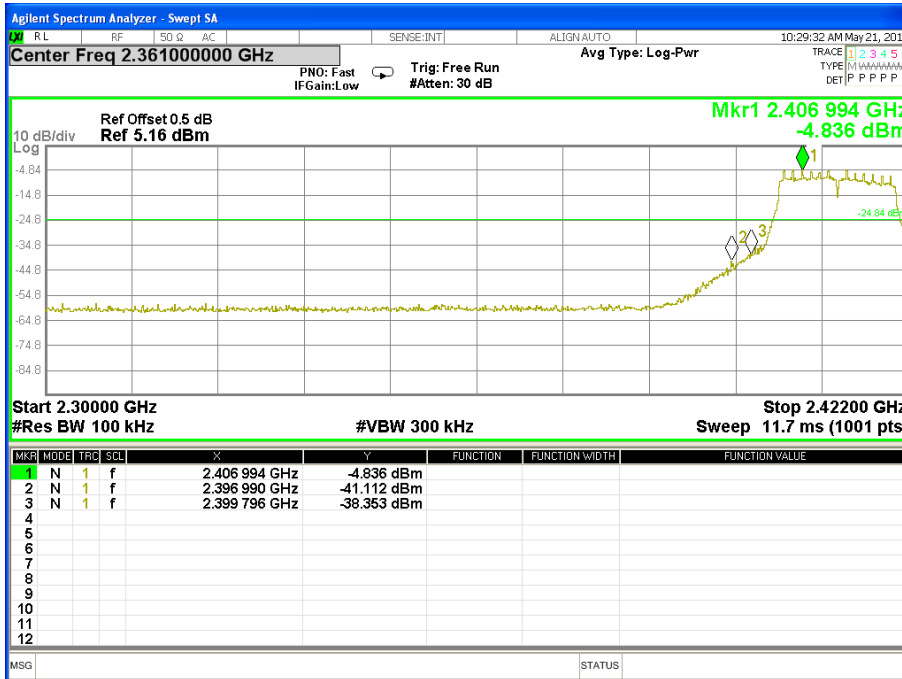
CH 11



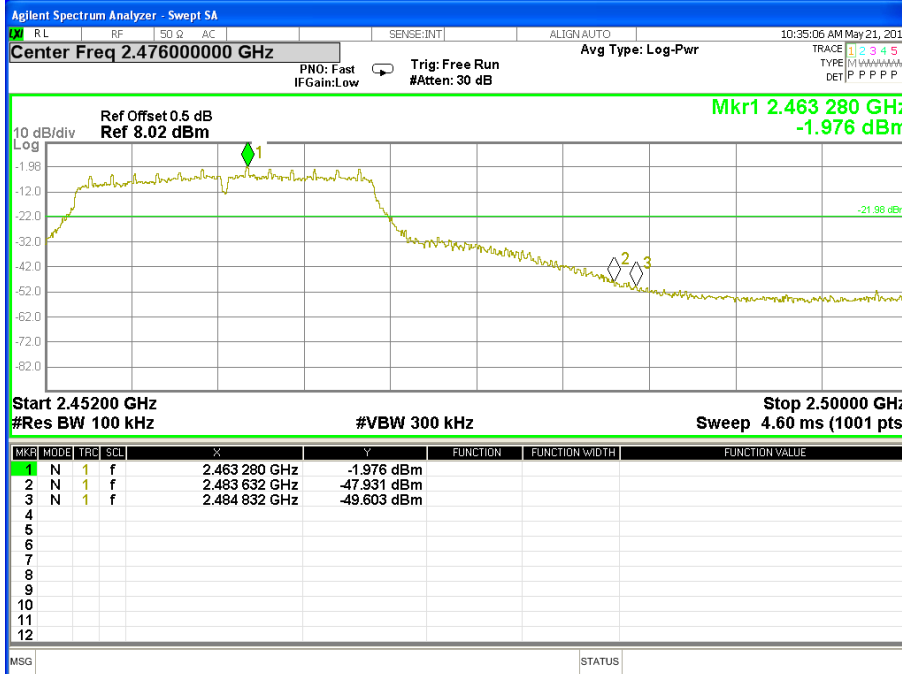


Band edge

CH 01



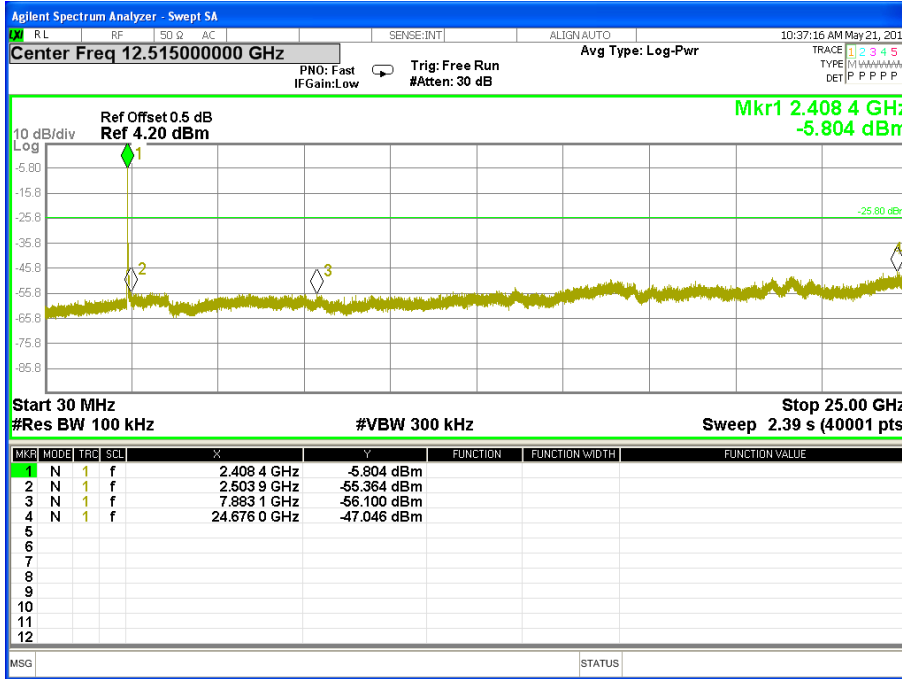
CH11



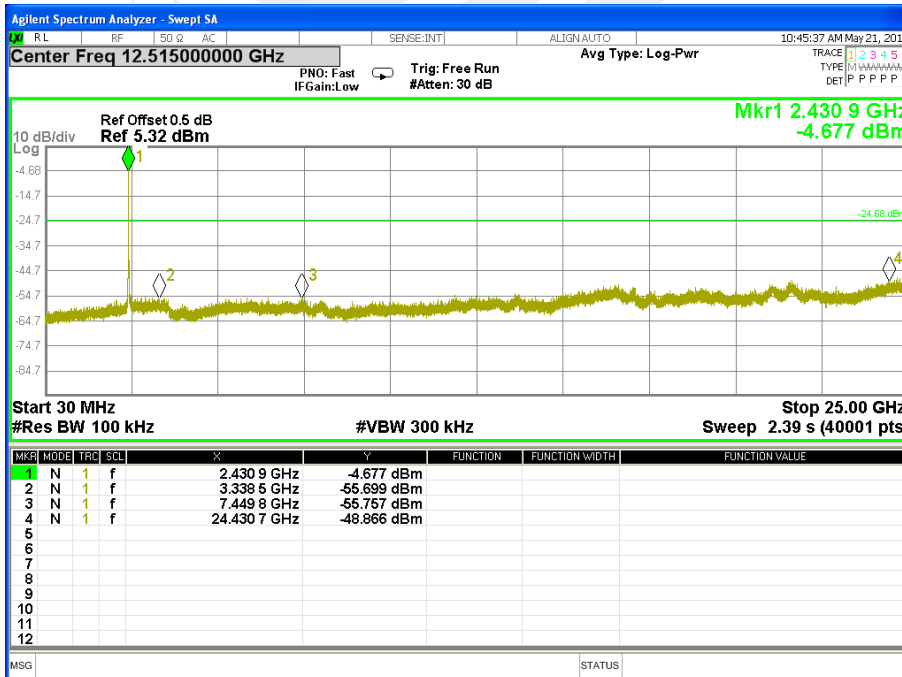


Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

CH 01

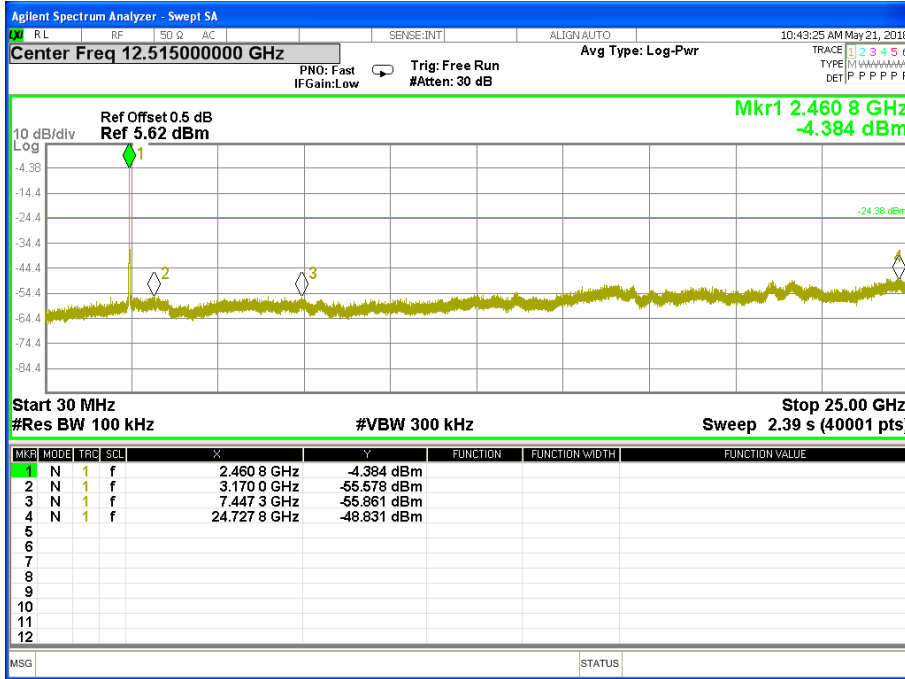


CH 06





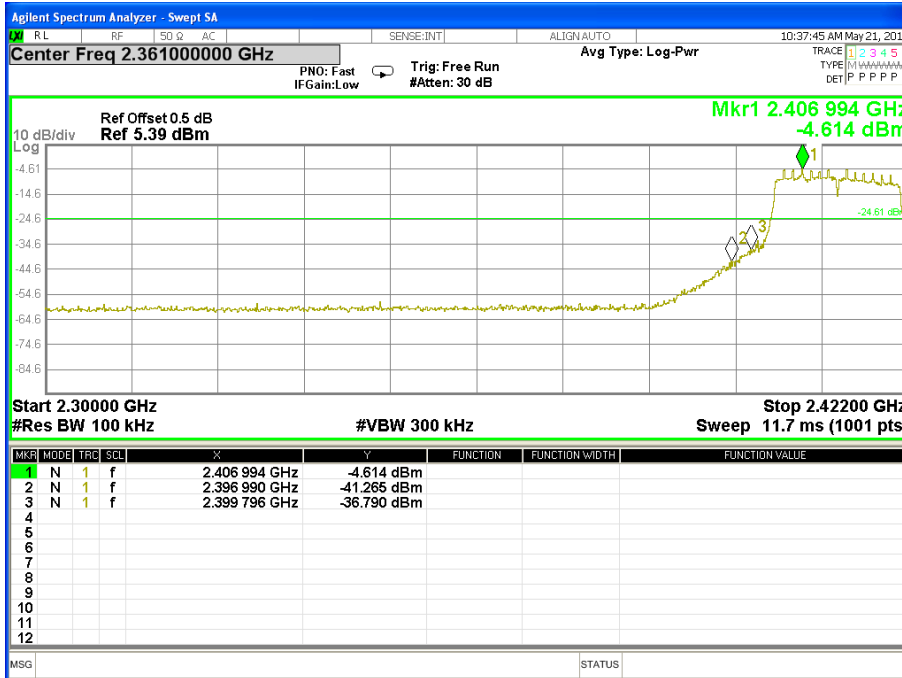
CH 11



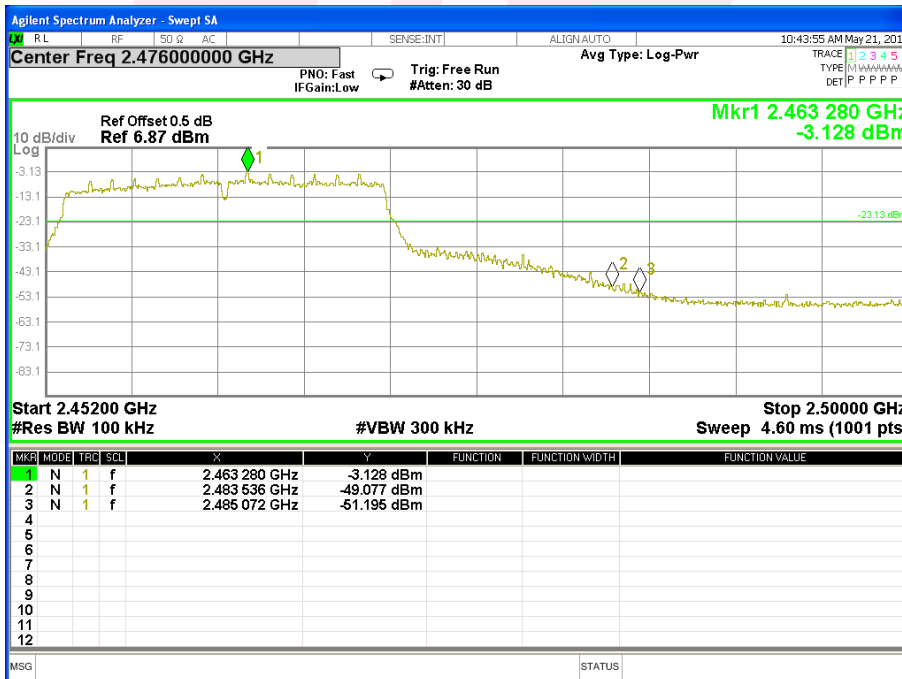


Band edge

CH 01



CH 11

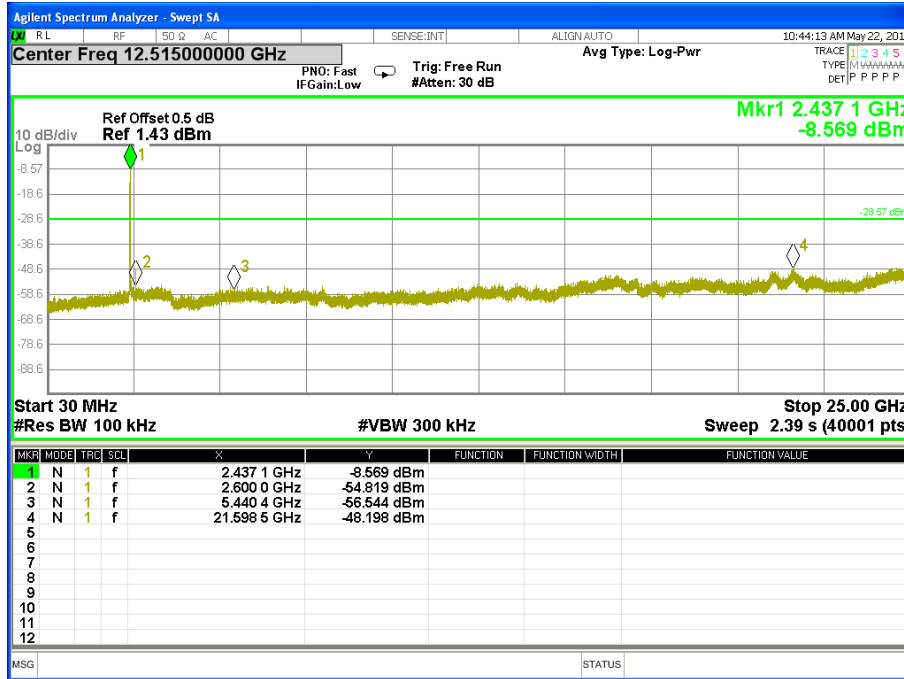






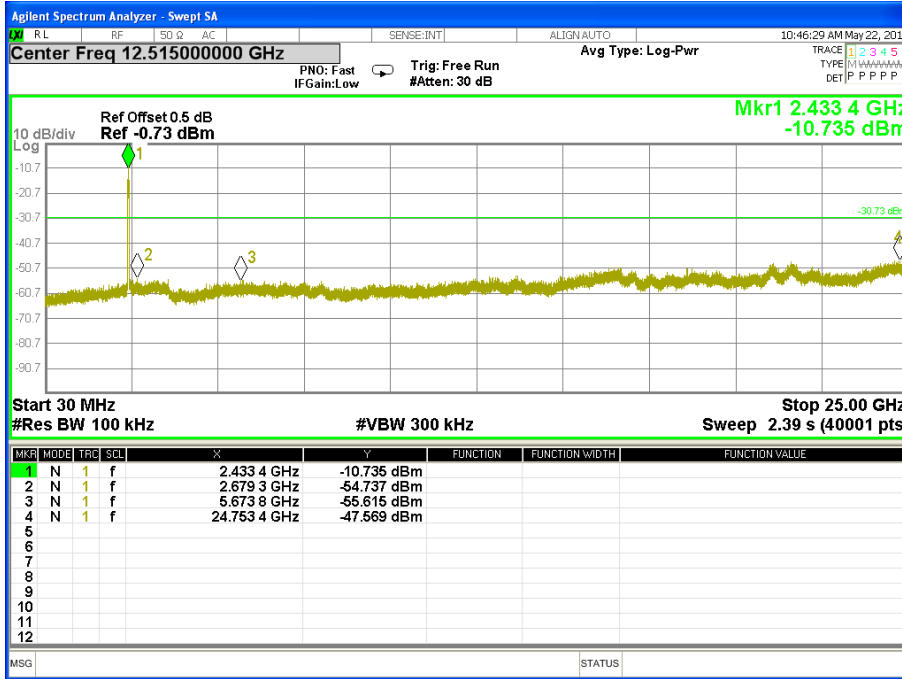
Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

CH 03

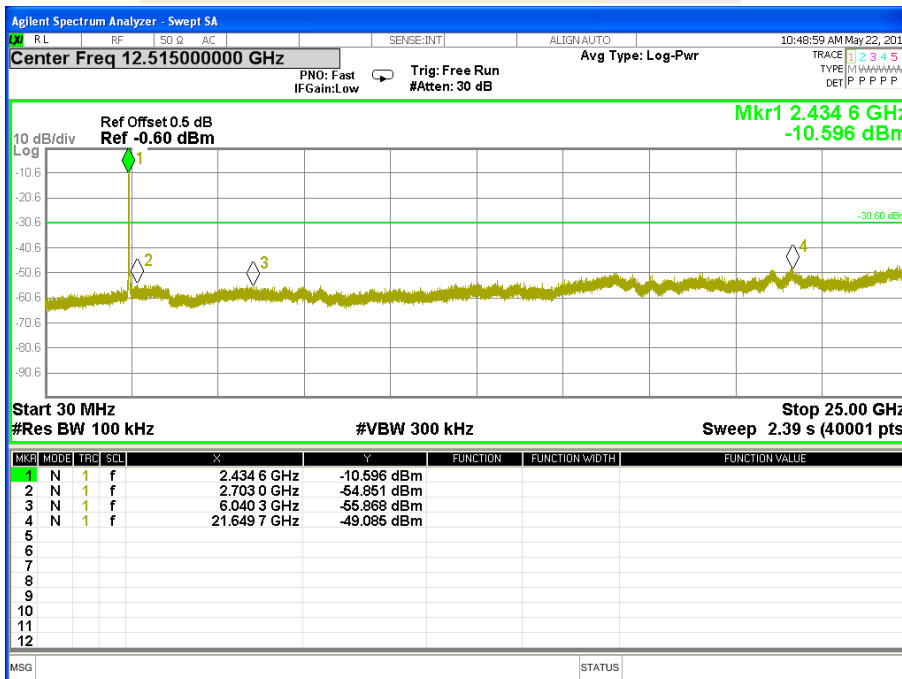




CH06



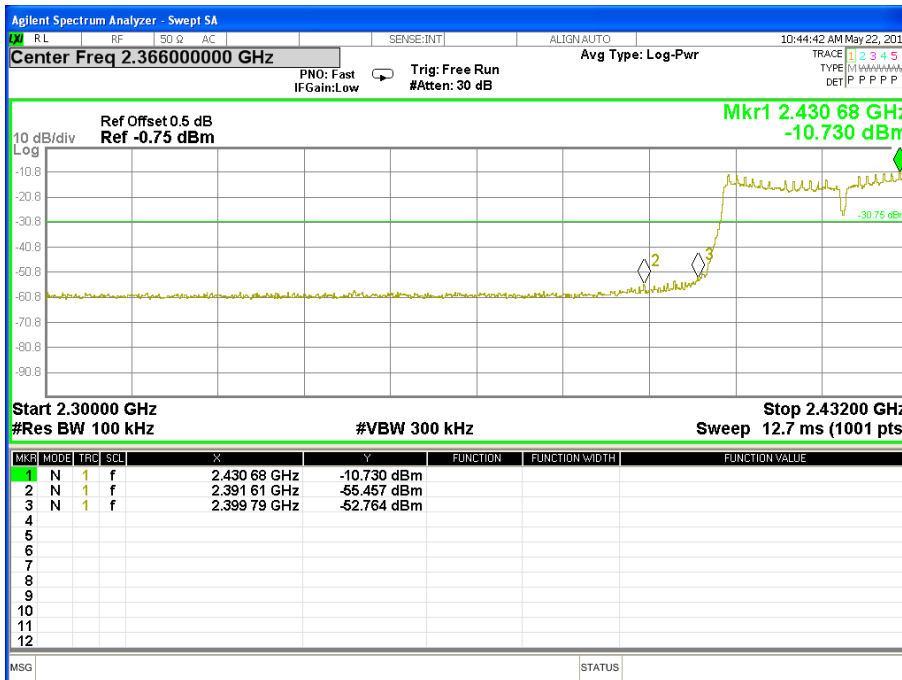
CH09



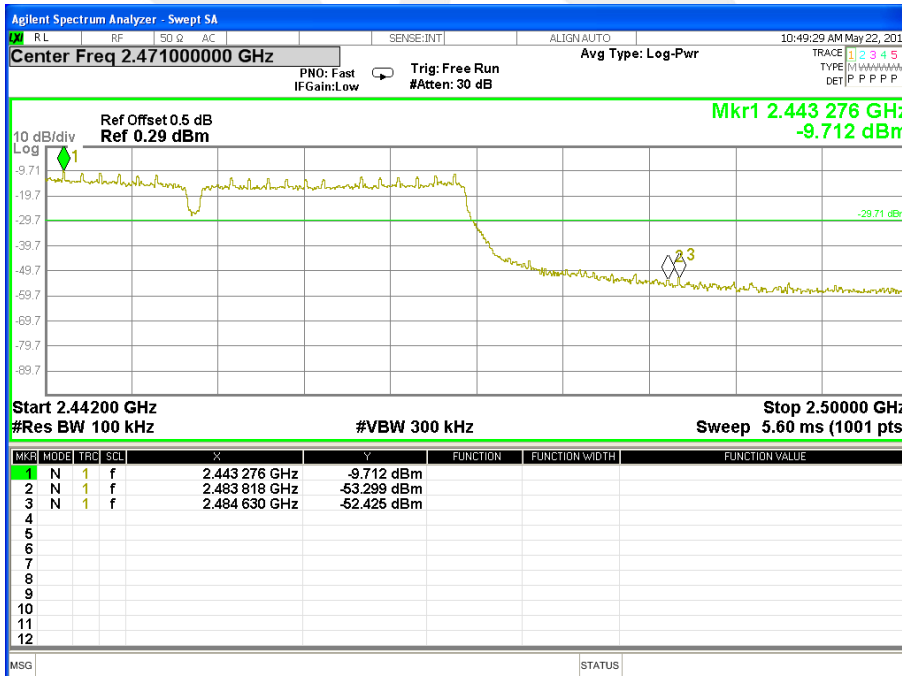


Band edge

CH03



CH 09





## 5. POWER SPECTRAL DENSITY TEST

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	$\leq 8$ dBm (RBW $\geq 3$ KHz)	2400-2483.5	PASS

### 5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the  $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$ .
4. Set the  $\text{VBW} \geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

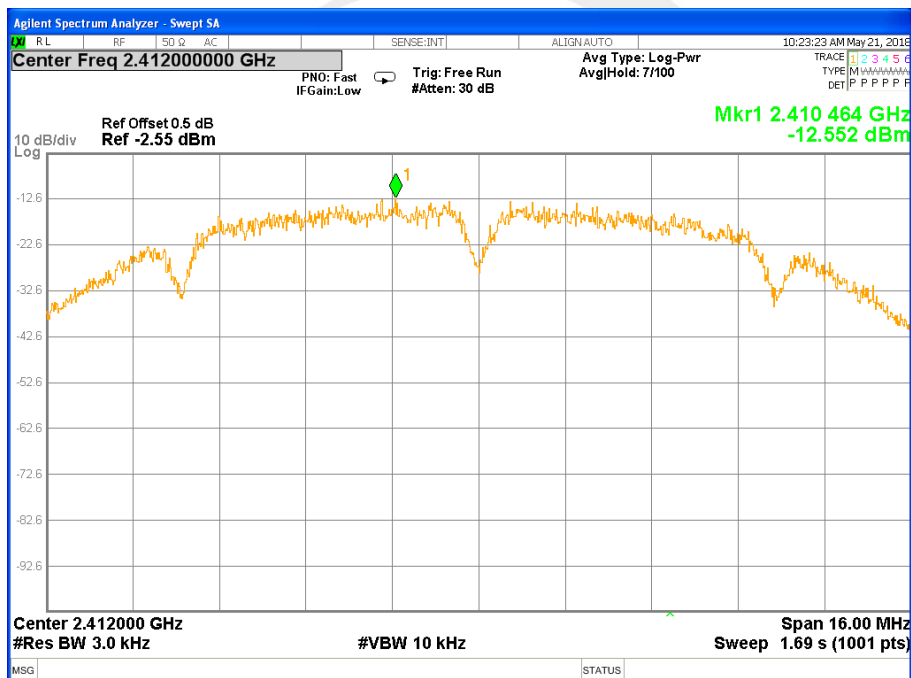


5.6 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX b Mode /CH01, CH06, CH11

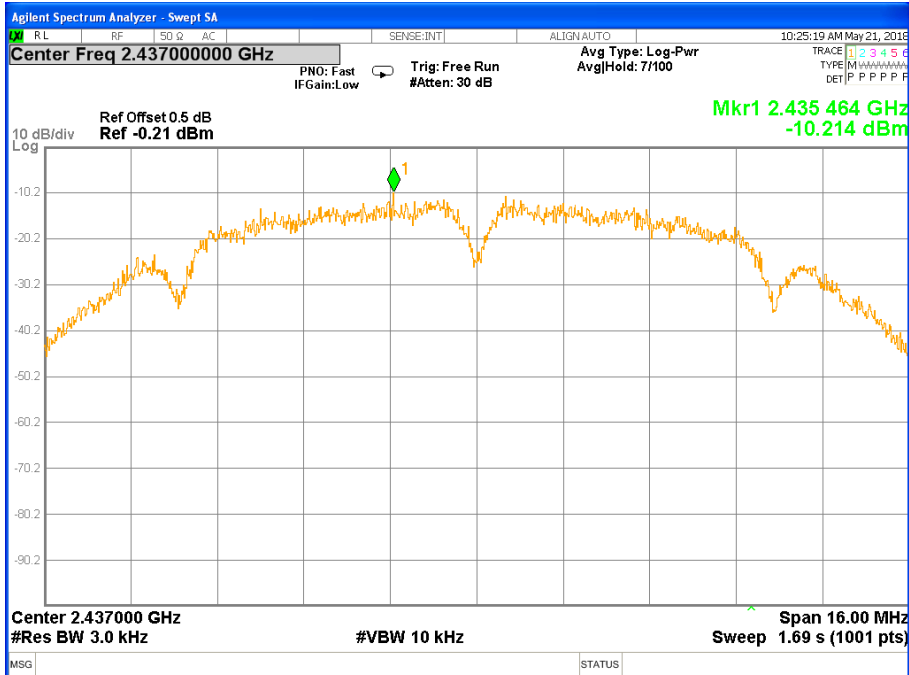
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-12.552	≤8	PASS
2437 MHz	-10.214	≤8	PASS
2462 MHz	-12.384	≤8	PASS

TX CH01

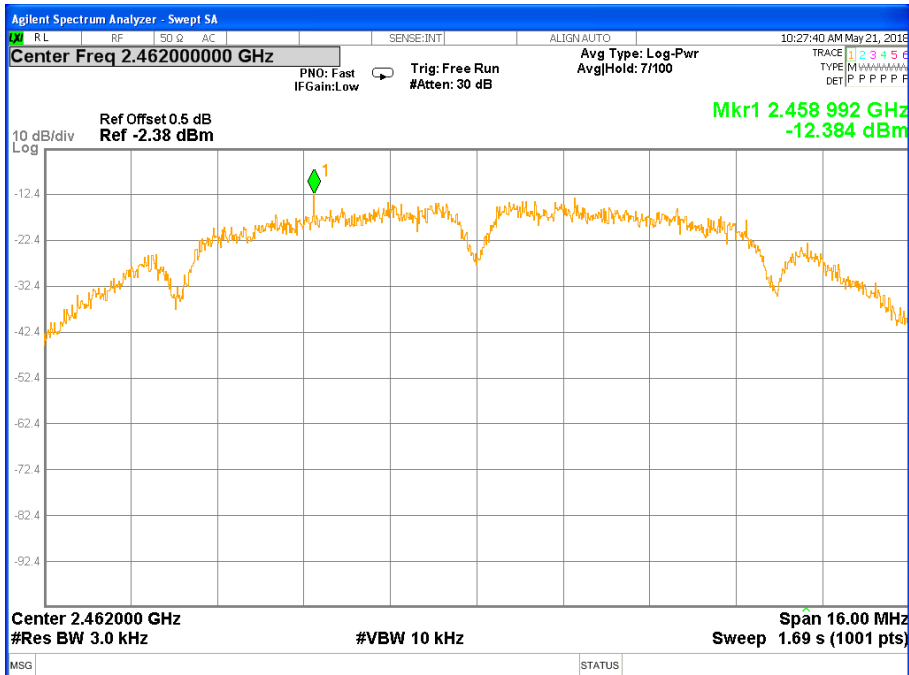




### TX CH06



### TX CH11

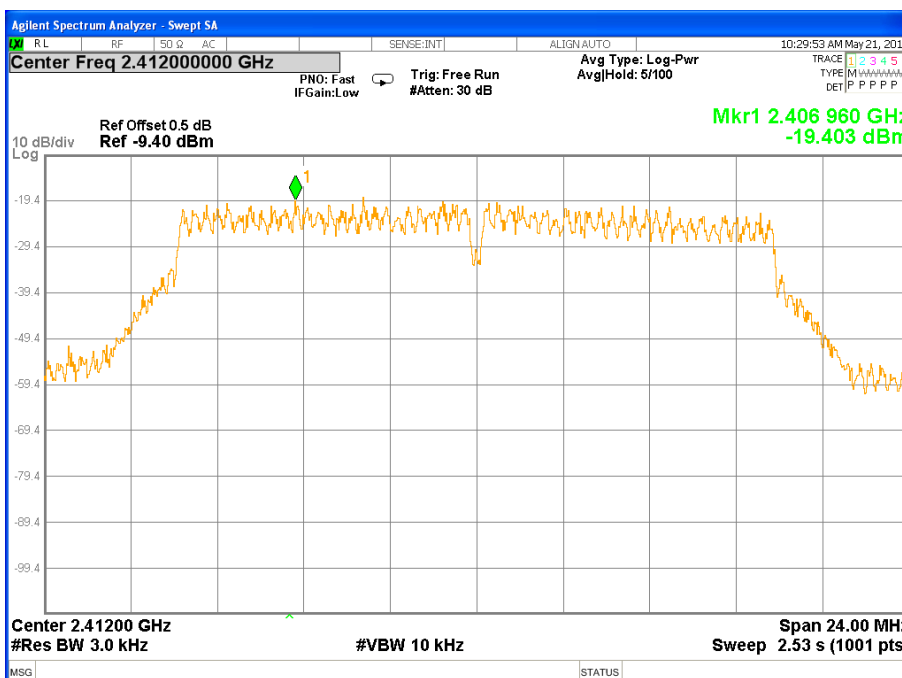




Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX g Mode /CH01, CH06, CH11

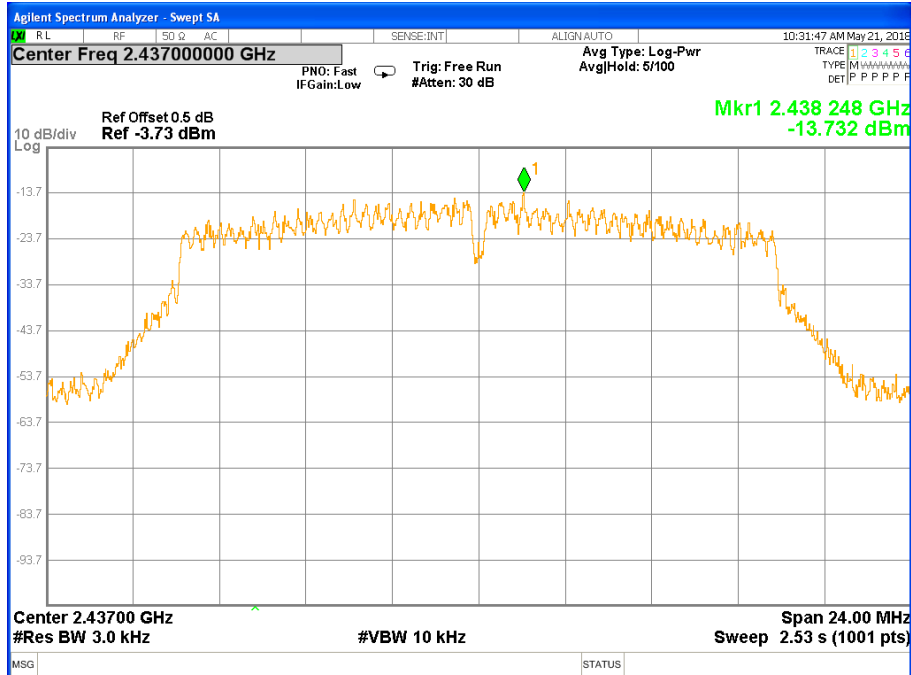
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-19.403	≤8	PASS
2437 MHz	-13.732	≤8	PASS
2462 MHz	-16.186	≤8	PASS

**TX CH01**

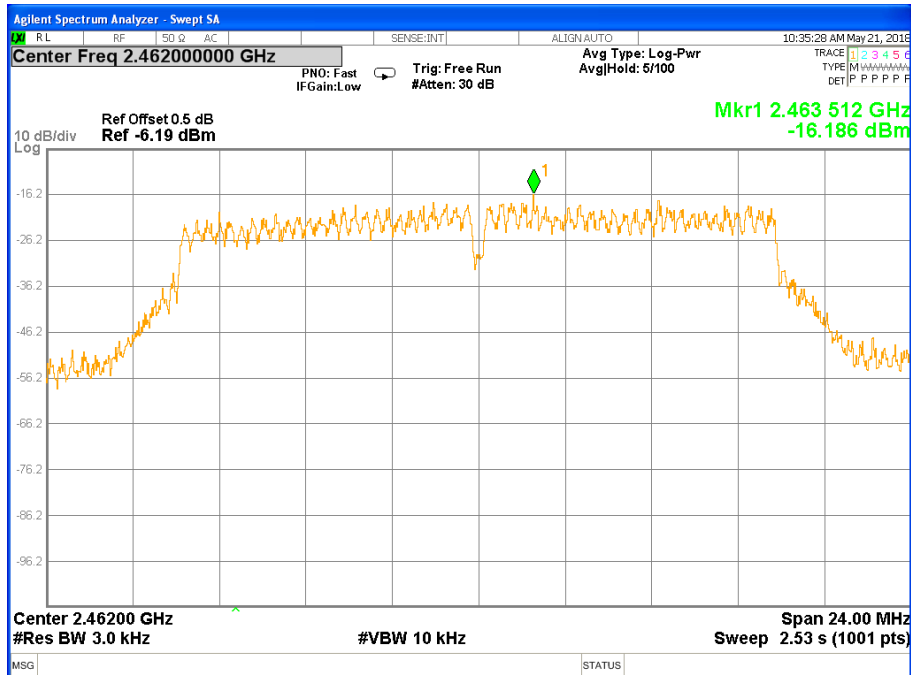




### TX CH06



### TX CH11



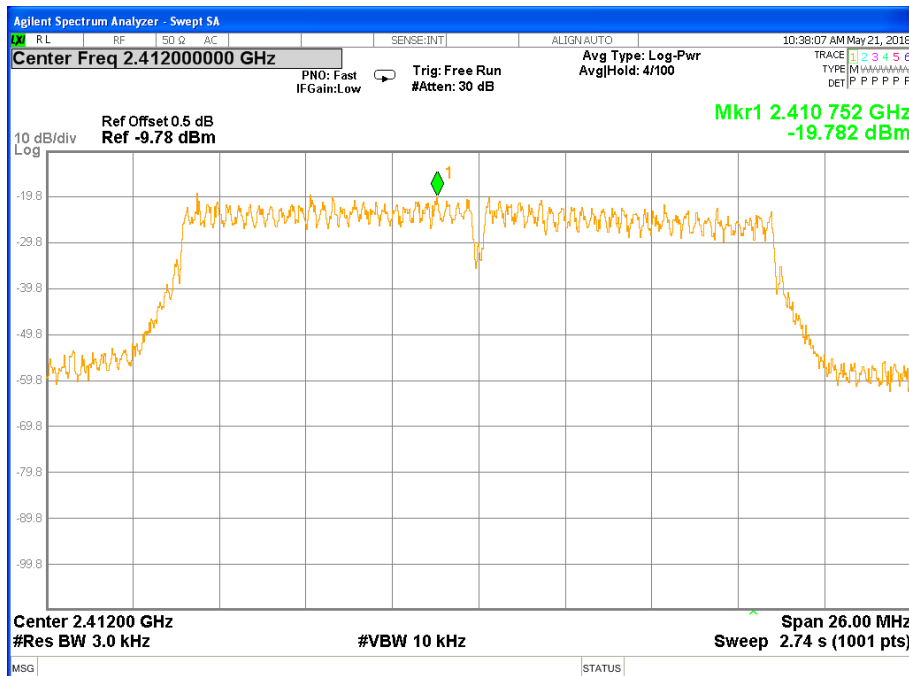




Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

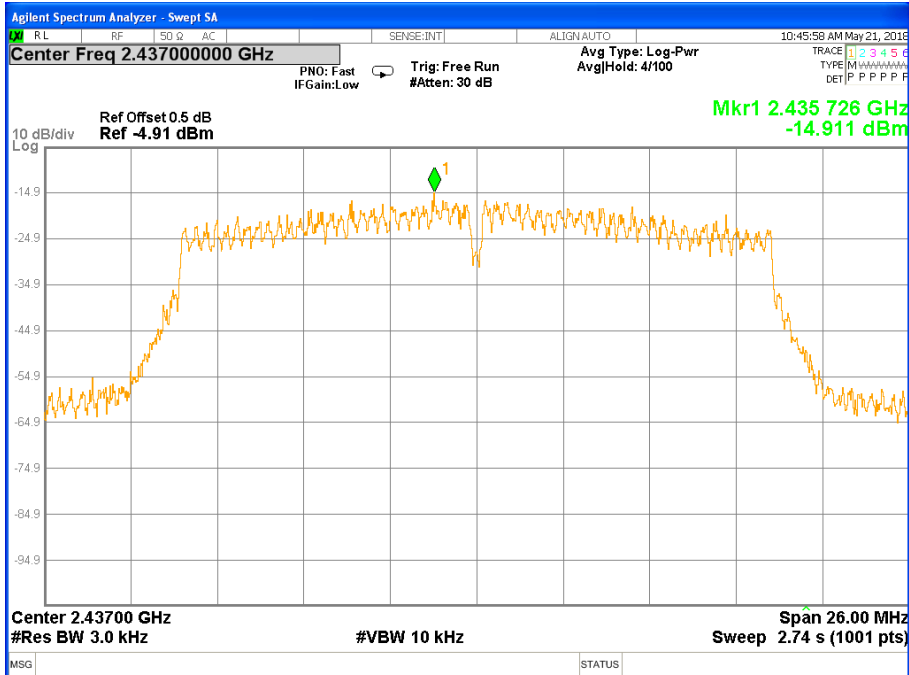
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-19.782	≤8	PASS
2437 MHz	-14.911	≤8	PASS
2462 MHz	-17.542	≤8	PASS

**TX CH01**

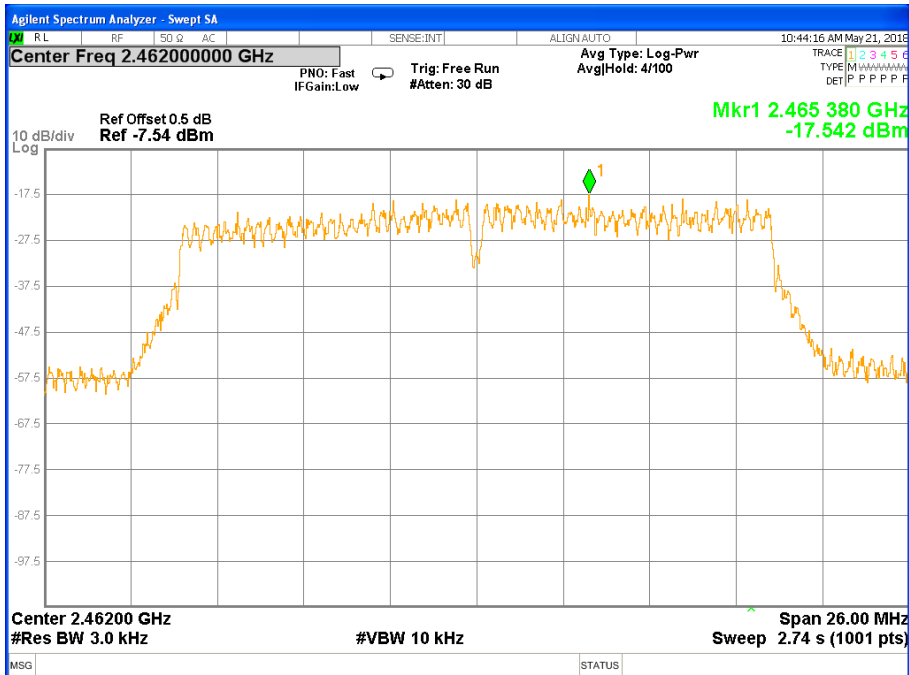




### TX CH06



### TX CH11

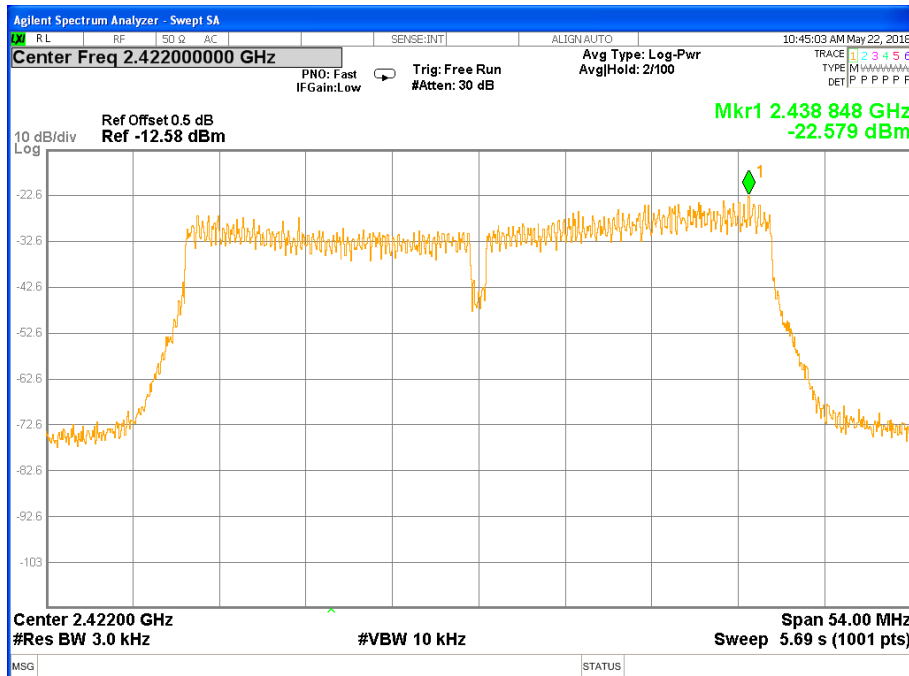




Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

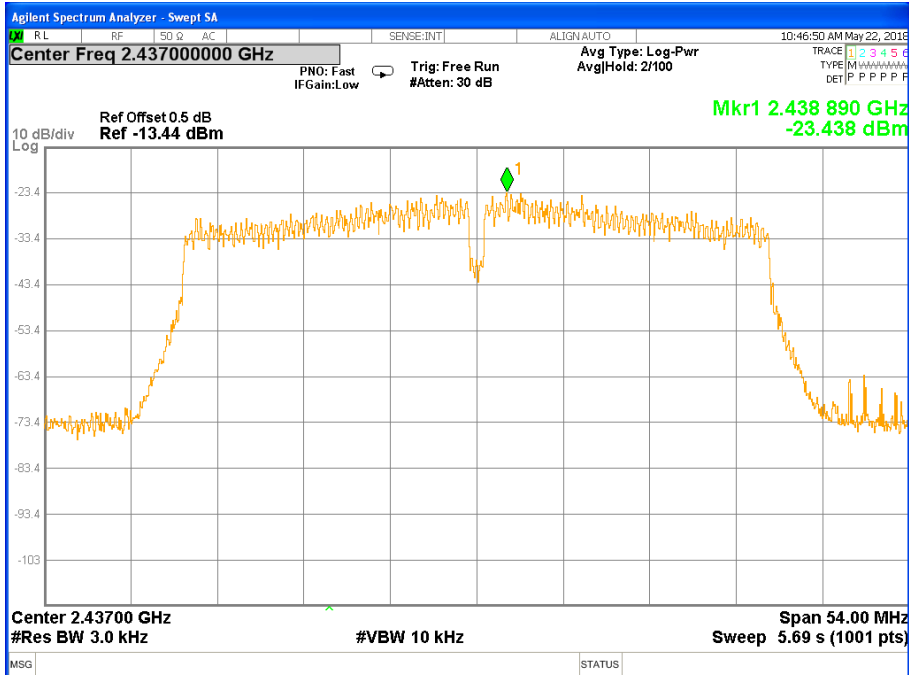
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2422 MHz	-22.579	≤8	PASS
2437 MHz	-23.438	≤8	PASS
2452 MHz	-24.970	≤8	PASS

**TX CH03**

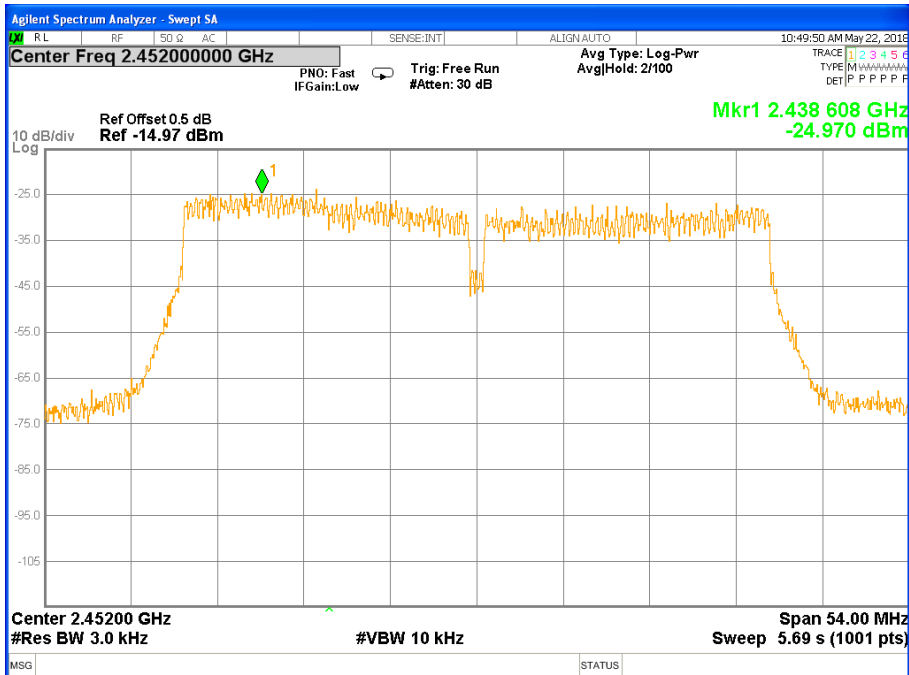




### TX CH06



### TX CH09





## 6. BANDWIDTH TEST

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

### 6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq 6$  dB.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



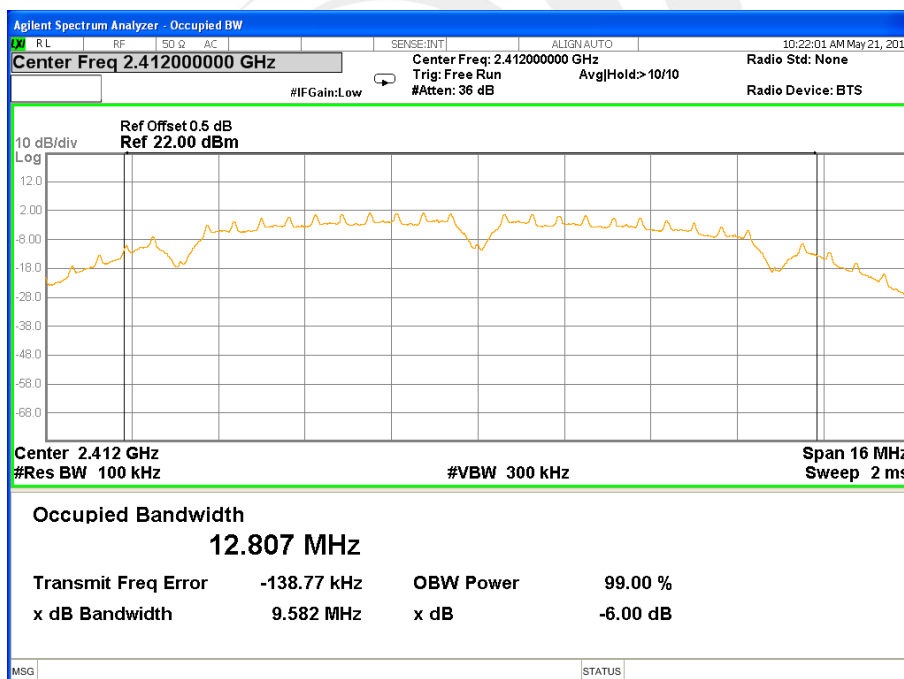
6.6 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX b Mode /CH01, CH06, CH11

Remark: PEAK DETECTOR IS USED

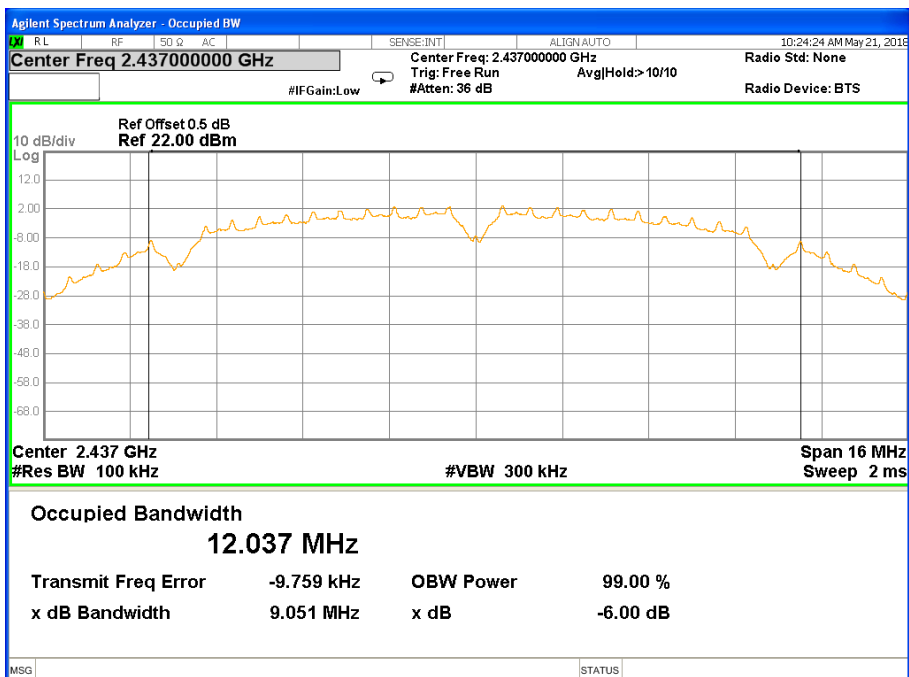
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	9.582	≥500KHz	PASS
2437 MHz	9.051	≥500KHz	PASS
2462 MHz	9.565	≥500KHz	PASS

TX CH 01

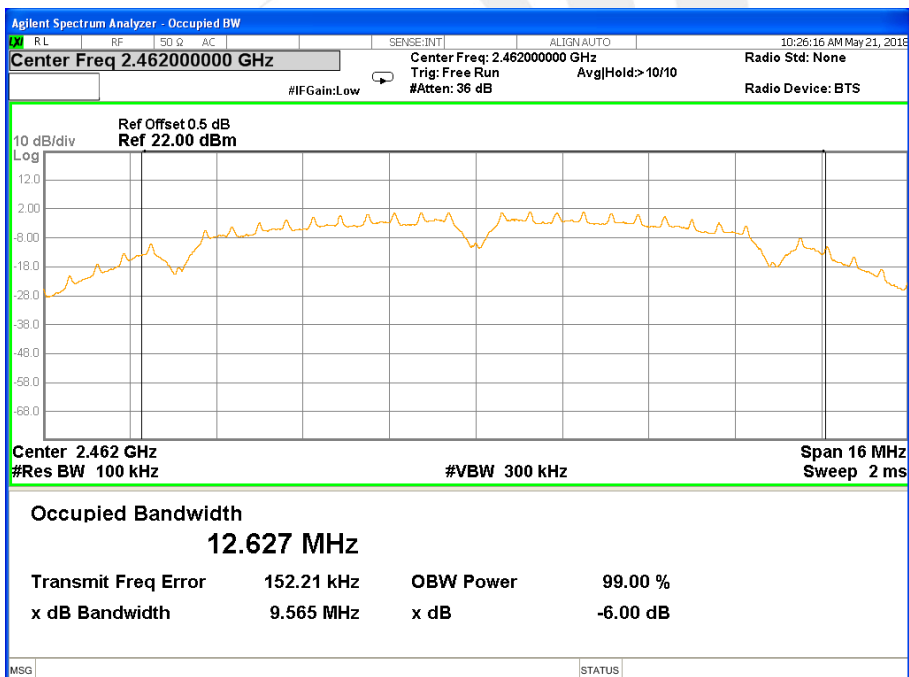




### TX CH 06



### TX CH 11

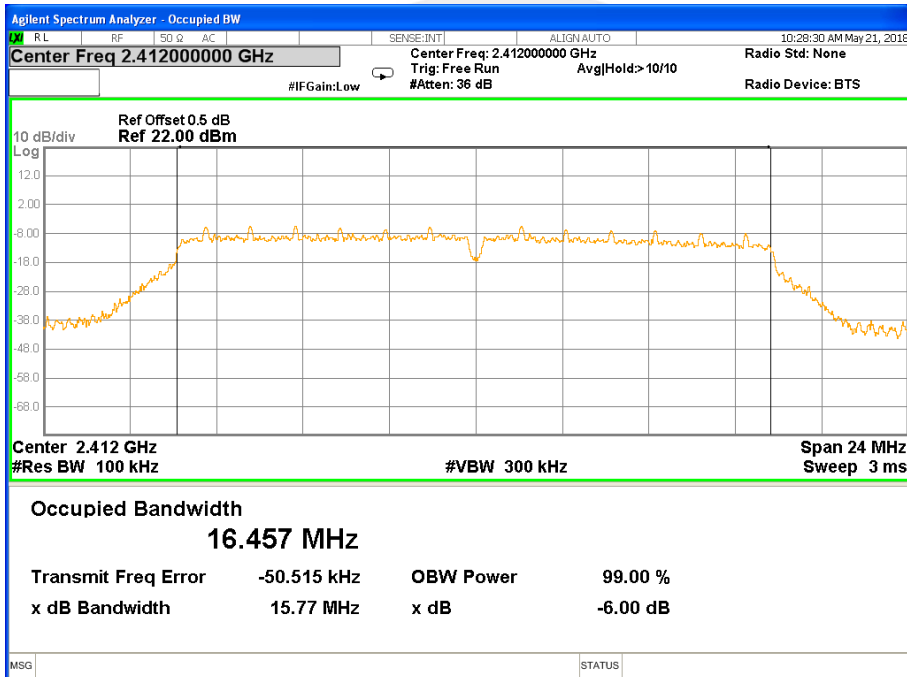




Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX g Mode /CH01, CH06, CH11

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.77	≥500KHz	PASS
2437 MHz	15.08	≥500KHz	PASS
2462 MHz	15.72	≥500KHz	PASS

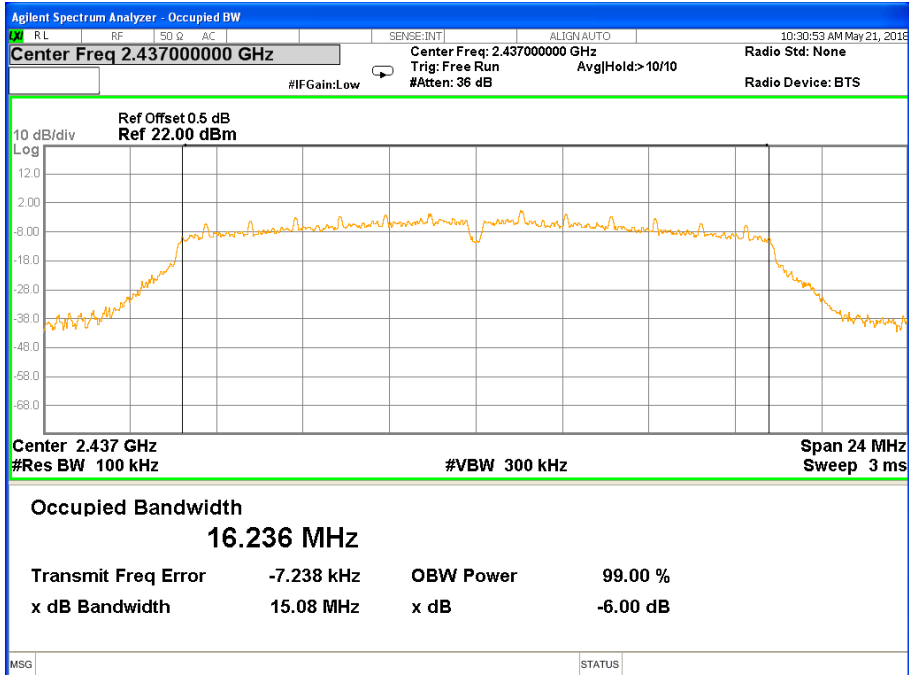
**TX CH 01**



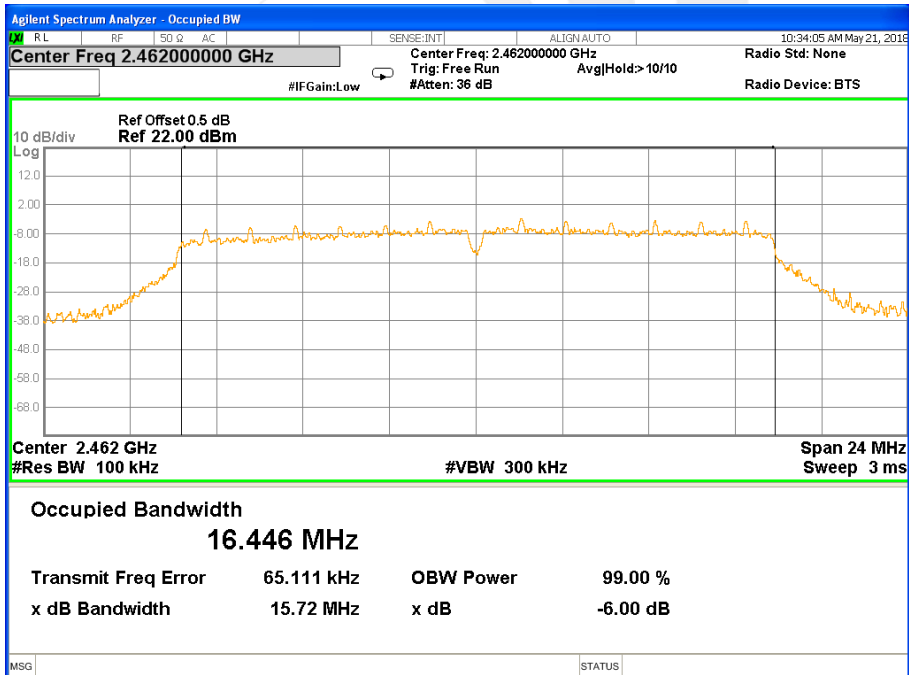




### TX CH 06



### TX CH 11

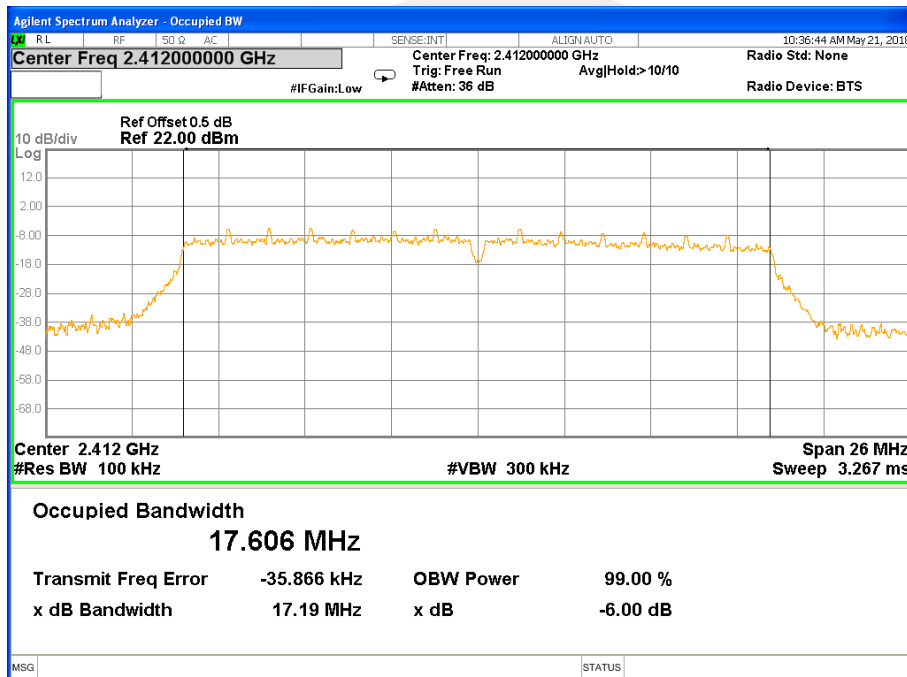




Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

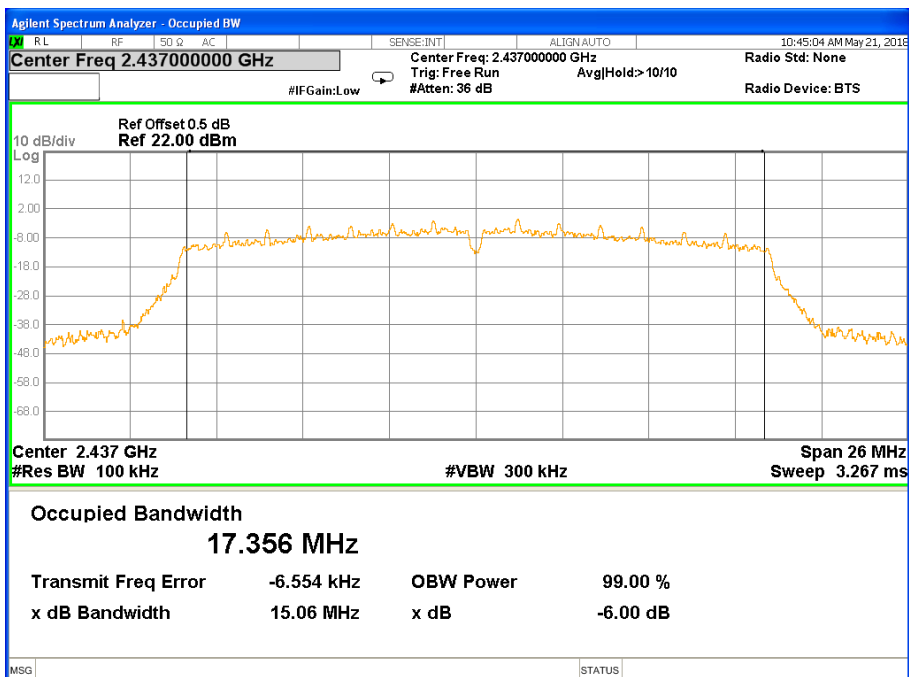
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	17.19	≥500KHz	PASS
2437 MHz	15.06	≥500KHz	PASS
2462 MHz	16.34	≥500KHz	PASS

**TX CH 01**

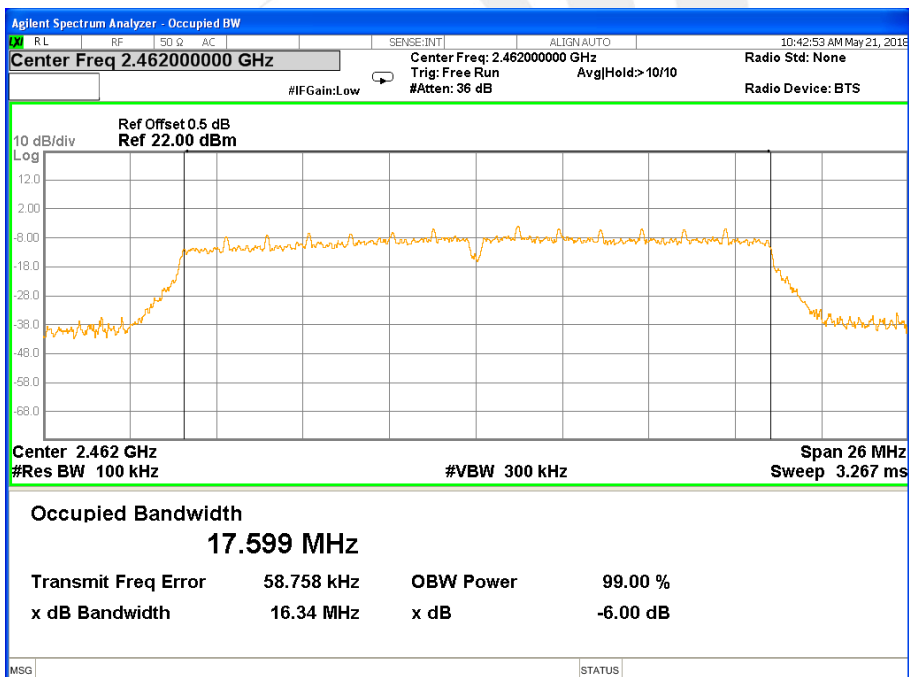




### TX CH 06



### TX CH 11

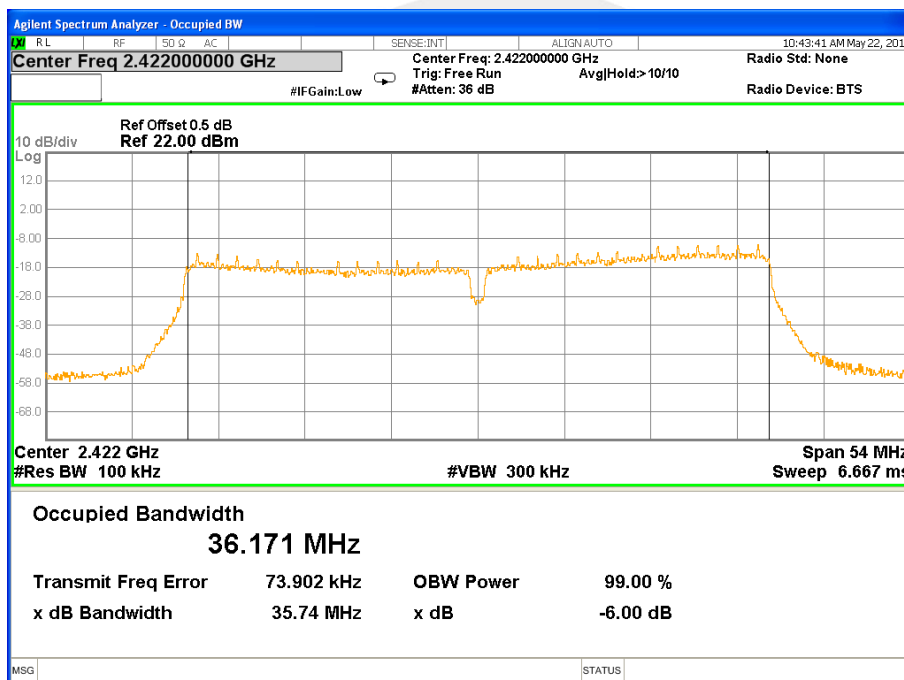




Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

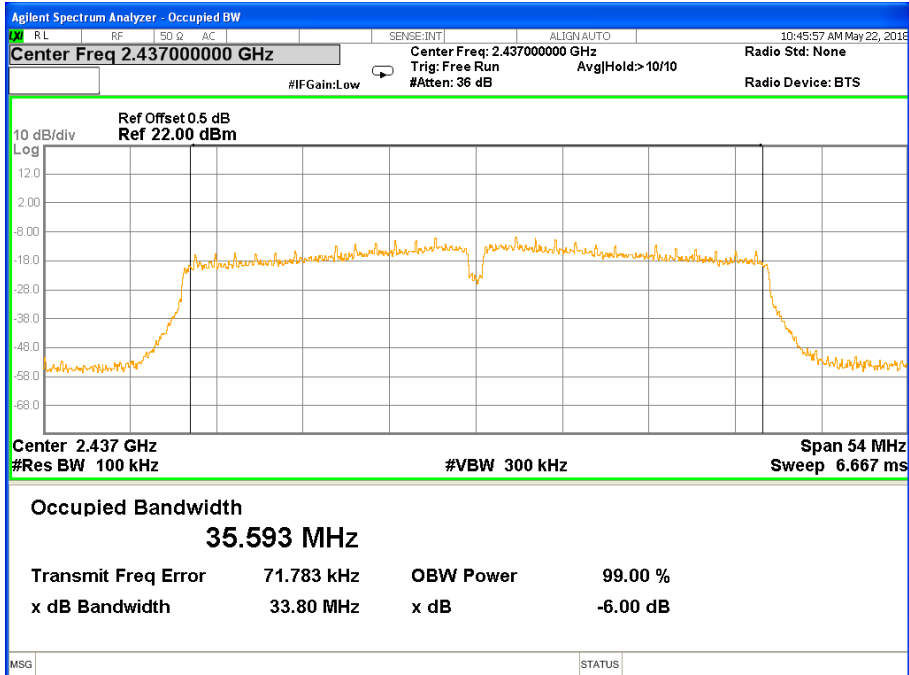
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2422 MHz	35.74	≥500KHz	PASS
2437 MHz	33.80	≥500KHz	PASS
2452 MHz	35.95	≥500KHz	PASS

**TX CH 03**

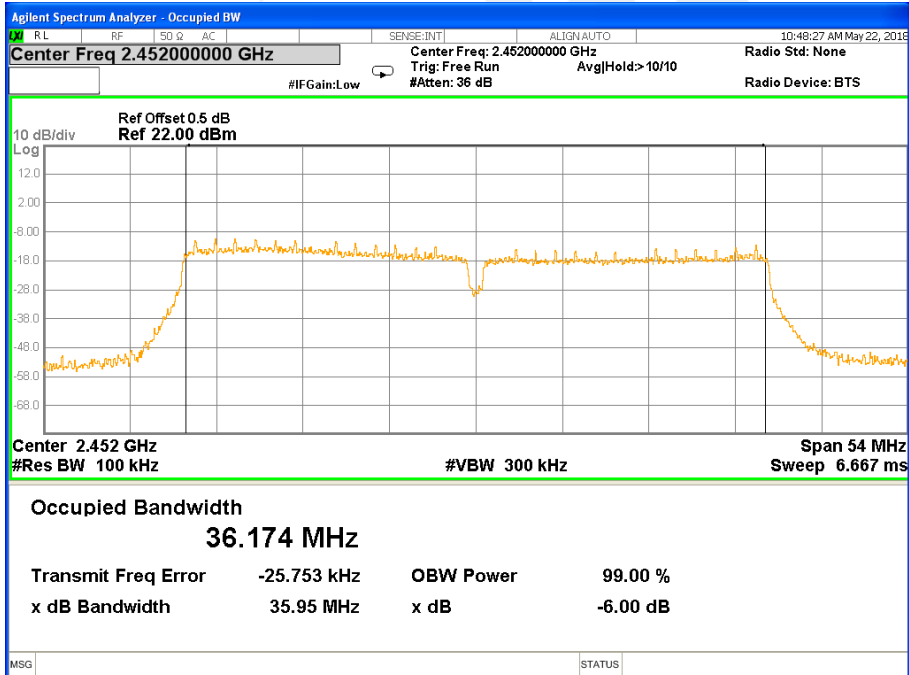




### TX CH 06



### TX CH 09





## 7. PEAK OUTPUT POWER TEST

### 7.1 APPLIED PROCEDURES / LIMIT

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

### 7.2 TEST PROCEDURE

- The EUT was directly connected to the Power Meter

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



## 7.6 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.8V From Battery		

TX 802.11b Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	12.74	11.72	30
CH06	2437	12.95	11.92	30
CH11	2462	12.18	11.15	30

TX 802.11g Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	9.08	8.05	30
CH06	2437	10.78	9.75	30
CH11	2462	9.85	8.82	30

TX 802.11n20 Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	8.26	6.22	30
CH06	2437	9.84	7.82	30
CH11	2462	9.54	7.51	30

TX 802.11n40 Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH03	2422	4.36	2.32	30
CH06	2437	4.82	2.60	30
CH09	2452	4.71	2.70	30



## 8. ANTENNA REQUIREMENT

### 8.1 STANDARD REQUIREMENT

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

### 8.2 EUT ANTENNA

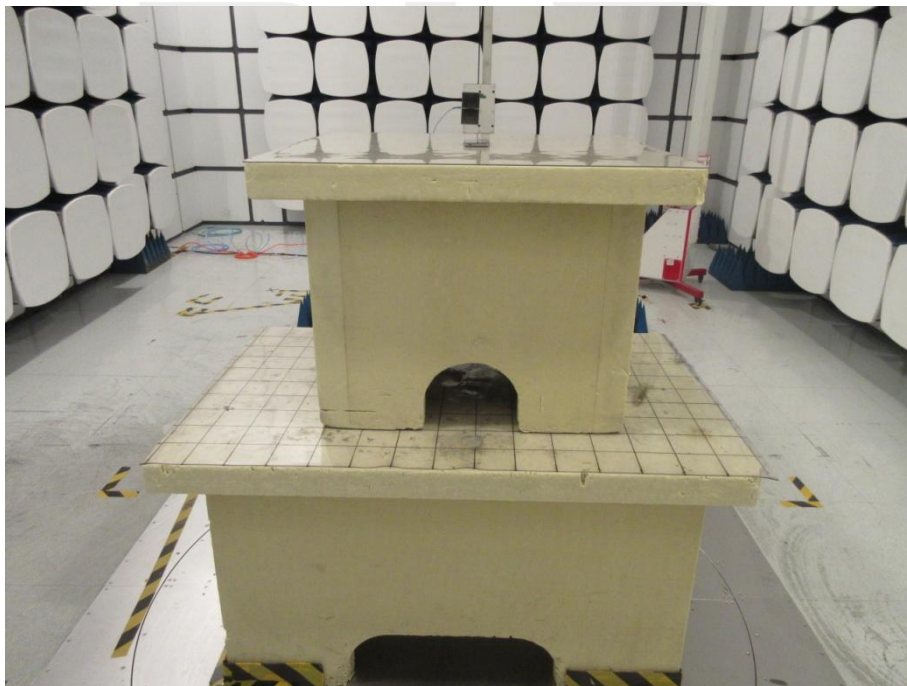
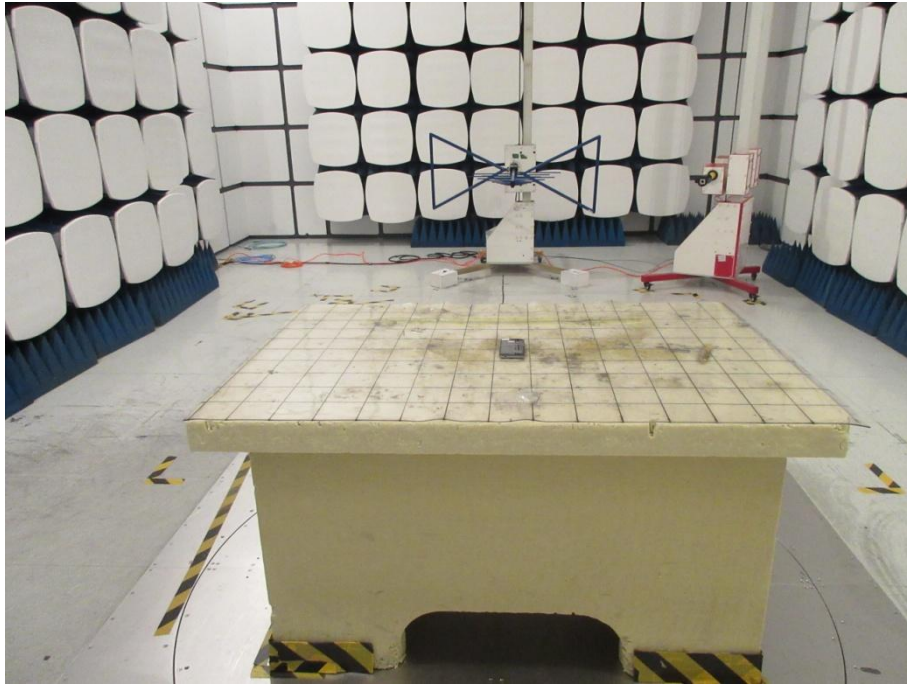
The EUT antenna is PIFA Antenna. It comply with the standard requirement.





APPENDIX - PHOTOS OF TEST SETUP

**Radiated Measurement Photos**





### Conducted Measurement Photos



\*\*\*\*\*END OF THE REPORT\*\*\*\*\*