

FCC Radio Test Report

FCC ID: 2ABES-PILOTX01

Original Grant

Report No. : TB-FCC170698
Applicant : Pathway Innovations and Technologies, Inc.
Equipment Under Test (EUT)
EUT Name : PilotX Tablet
Model No. : KR2102
Series Model No. : PilotX Tablet, PilotX, PilotS, PilotY, PilotZ, PilotV
Brand Name : HoverCam
Receipt Date : 2019-11-30
Test Date : 2019-12-01 to 2019-12-18
Issue Date : 2019-12-19
Standards : FCC Part 15, Subpart C 15.247
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer :  Jack Deng

Test/Witness Engineer :  Ivan Su

Approved & Authorized :  Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TB-FCC170698	Rev.01	Initial issue of report	2019-12-19

1. General Information about EUT

1.1 Client Information

Applicant	:	Pathway Innovations and Technologies, Inc.
Address	:	9985 Pacific Heights Blvd., Suite 100 San Diego, CA 92121, USA
Manufacturer	:	ShenZhen KerunVisual Technology Co., LTD.
Address	:	Unit A, F/11, Bldg.1, Senyang Electronic Technology Park, Tianliao Community, Guangming High Tech Zone, Guangming New District, Shenzhen, China 518132.

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	PilotX Tablet	
Models No.	:	KR2102, PilotX Tablet, PilotX, PilotS, PilotY, PilotZ, PilotV	
Model Different	:	All these models are the same PCB, layout and electrical circuit, the only difference is model name.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3)
		RF Output Power:	802.11b:7.16dBm 802.11g: 6.88dBm 802.11n (HT20): 5.63dBm
		Antenna Gain:	2 dBi Dipole Antenna
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)
		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:up to 150Mbps
Power Rating	:	Input: DC 10-15V, 4A DC 7.4V by 10000mAh Li-ion battery	
Software Version	:	win10	
Hardware Version	:	V0.8	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	

Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 v05r02 and KDB 662911 D01 Multiple Transmitter Output v02r01.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Channel List:

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

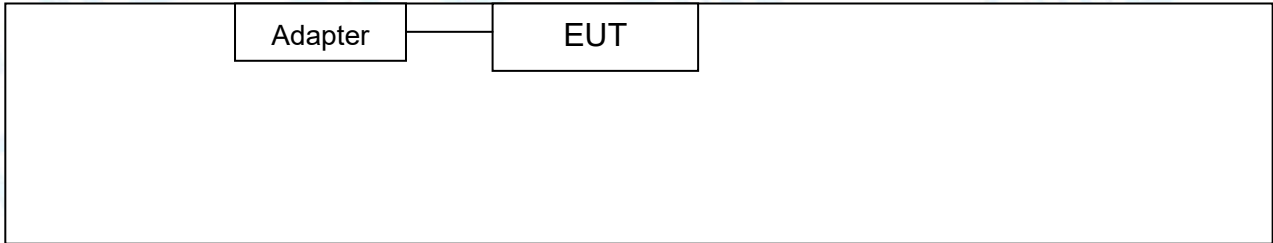
Note: CH 01~CH 11 for 802.11b/g/n(HT20)
CH 03~CH 09 for 802.11n(HT40)

(4) Antenna information

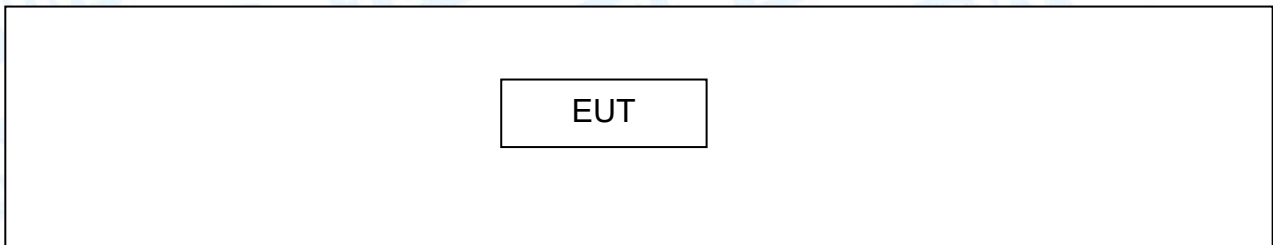
Mode		TX Antenna (s)		Remark	
802.11b		1		The worst case is ANT. A TX	
802.11g		1		The worst case is ANT. A TX	
802.11n(HT20)		2		ANT. A+ ANT. B	
Antenna	Brand	Model Name	Type	Antenna Gain(dBi)	
ANT. A	N/A	N/A	Dipole	2	
ANT. B	N/A	N/A	Dipole	2	

1.3 Block Diagram Showing the Configuration of System Tested

Conducted Test



Radiated Test



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used “√”
ADAPTER	WT48-1204000-T	----	N/A	√

1.5 Description of Test Mode

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 follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	Charging with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

- 802.11b Mode: CCK (1 Mbps)
- 802.11g Mode: OFDM (6 Mbps)
- 802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
- 802.11n (HT40) Mode: MCS 0 (30 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a fixed unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test 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: MP TOOL				
Test Mode: Continuously transmitting				
Mode	Data Rate	Channel	Parameters	
			ANT. A	ANT. B
802.11b	CCK/ 1Mbps	01	DEF	DEF
	CCK/ 1Mbps	06	DEF	DEF
	CCK/ 1Mbps	11	DEF	DEF
802.11g	OFDM/ 6Mbps	01	DEF	DEF
	OFDM/ 6Mbps	06	DEF	DEF
	OFDM/ 6Mbps	11	DEF	DEF
802.11n(20)	MCS 0	01	DEF	DEF
	MCS 0	06	DEF	DEF
	MCS 0	11	DEF	DEF

Note: TX signal at 802.11b/g mode only could transmit at Ant. A or Ant. B. All the test mode have pretest with two Antenna, but the worst case is ANT A. The report only show the worst case.

1.7 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 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz	± 3.42 dB
	150kHz to 30MHz	± 3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 2				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

Note: “/” for no requirement for this test item.
N/A is an abbreviation for Not Applicable.

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE

4. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 13, 2019	Jul. 12, 2020
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 13, 2019	Jul. 12, 2020
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 13, 2019	Jul. 12, 2020
LISN	Rohde & Schwarz	ENV216	101131	Jul. 13, 2019	Jul. 12, 2020
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	FSVR	1311.006K40-10 0945-DH	Feb. 10, 2019	Feb. 09, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Jan. 27, 2019	Jan. 26, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Jan. 27, 2019	Jan. 26, 2020
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.03, 2019	Mar. 02, 2020
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.03, 2019	Mar. 02, 2020
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.03, 2019	Mar. 02, 2020
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 13, 2019	Jul. 12, 2020
Pre-amplifier	Sonoma	310N	185903	Mar.04, 2019	Mar. 03, 2020
Pre-amplifier	HP	8449B	3008A00849	Mar.03, 2019	Mar. 02, 2020
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	Jul. 27, 2019	Jul. 26, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.03, 2019	Mar. 02, 2020
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 13, 2019	Jul. 12, 2020
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 16, 2019	Sep. 15, 2020
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 16, 2019	Sep. 15, 2020
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 16, 2019	Sep. 15, 2020
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO26	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO29	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO33	Sep. 16, 2019	Sep. 15, 2020

5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard
FCC Part 15.207

5.1.2 Test Limit

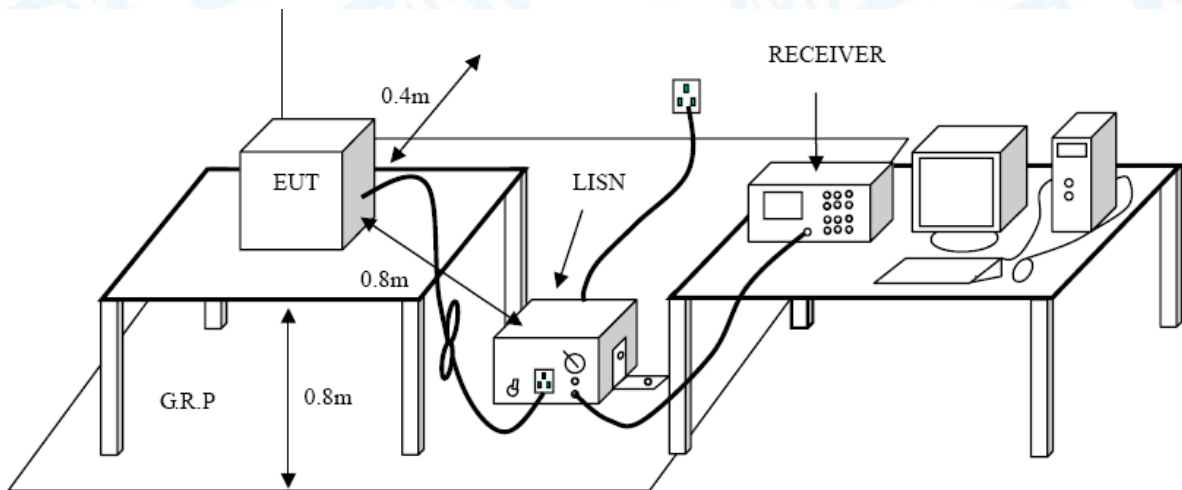
Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test Procedure

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.

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.

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.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 EUT Operating Mode

Please refer to the description of test mode.

5.5 Test Data

Please refer to the Attachment A.

6. Radiated Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard
FCC Part 15.209

6.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/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

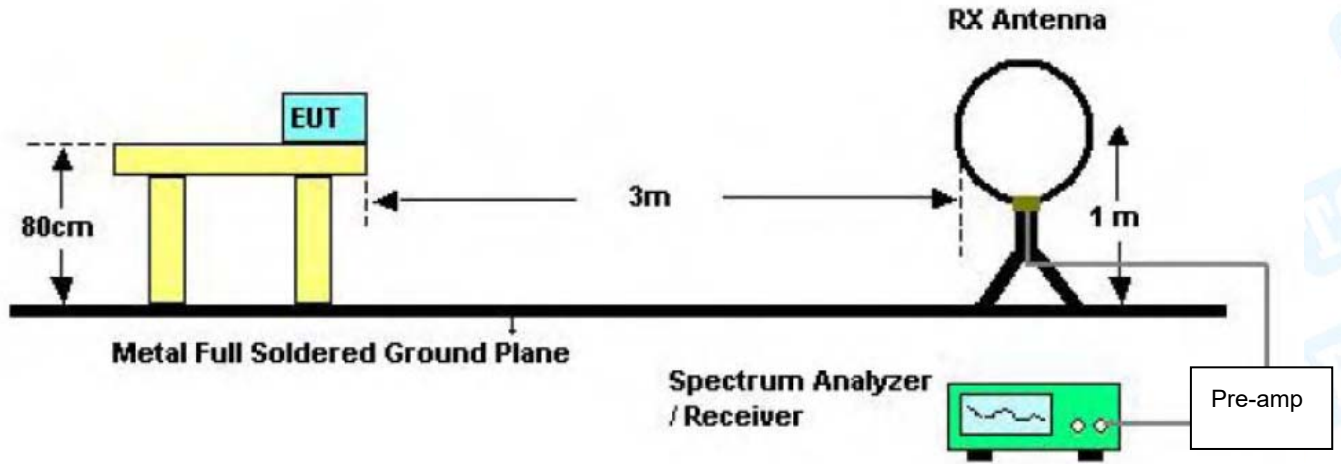
Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
Above 1000	74	54

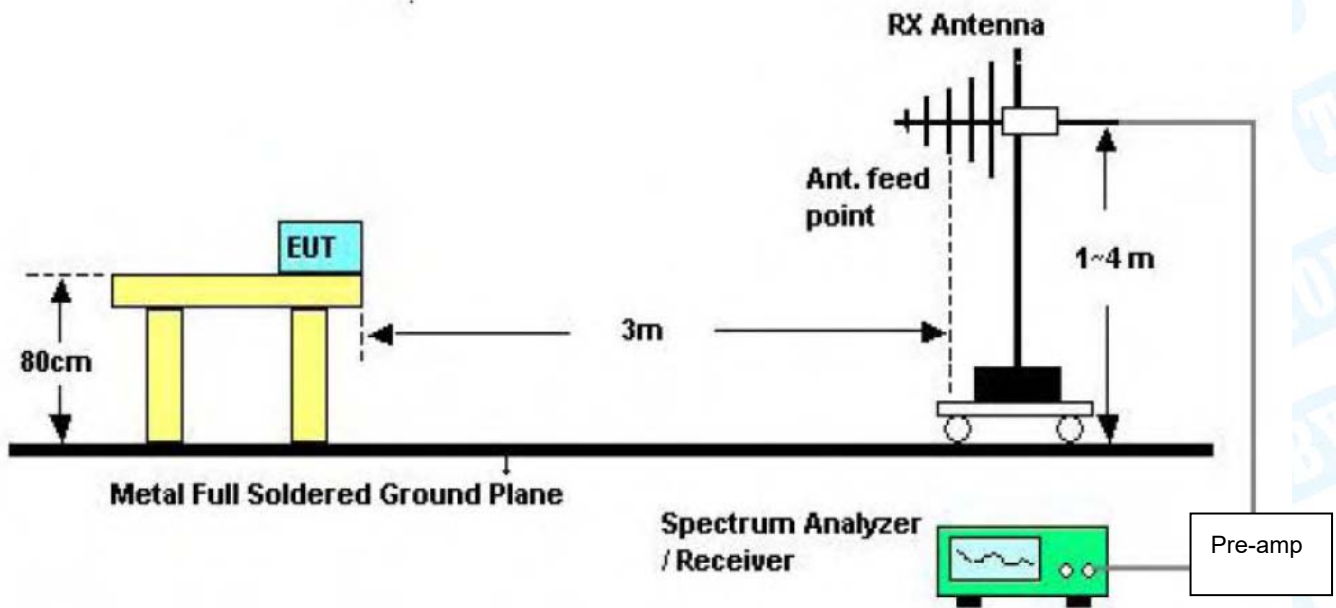
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

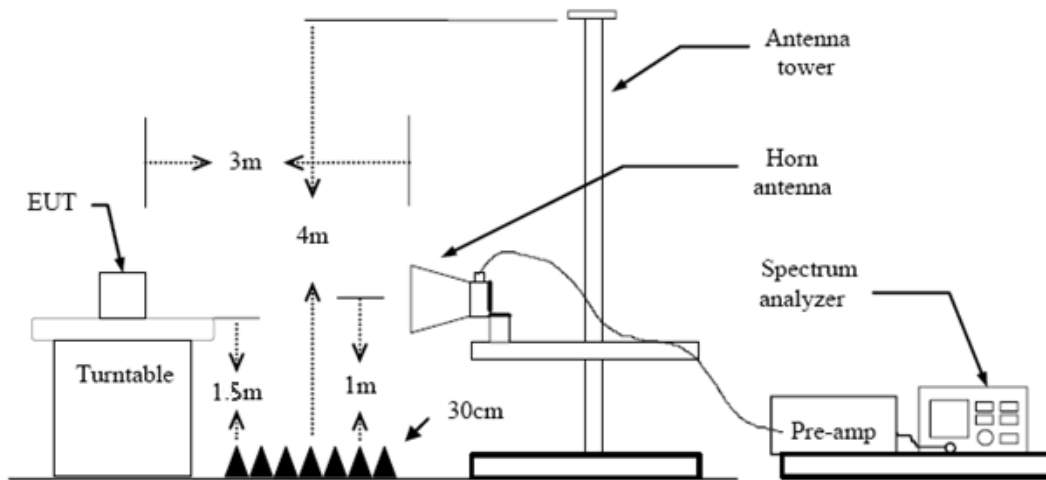
6.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

6.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency Below 1GHz. The EUT was placed on a rotating 0.8m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.

7. Restricted Bands Requirement

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.247(d)

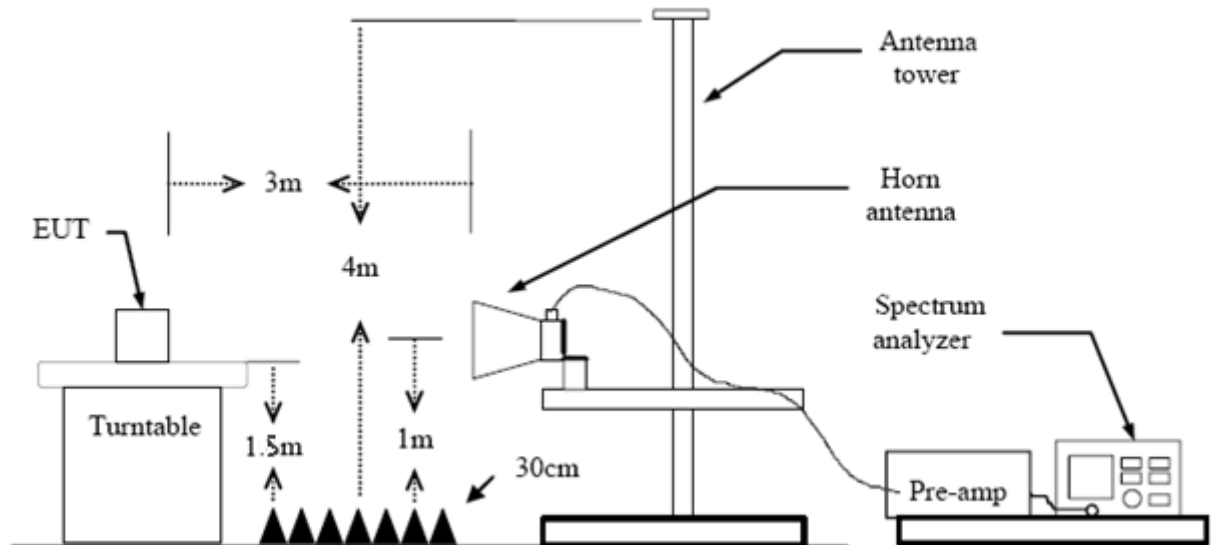
FCC Part 15.209

FCC Part 15.205

7.1.2 Test Limit

Restricted Frequency Band (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

7.2 Test Setup



7.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency Below 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

7.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

7.5 Test Data

Please refer to the Attachment C.

8. Bandwidth Test

8.1 Test Standard and Limit

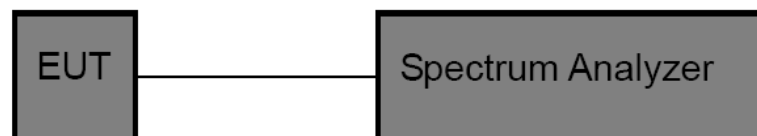
8.1.1 Test Standard

FCC Part 15.247 (a)(2)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst -case (i.e the widest) bandwidth.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

8.5 Test Data

Please refer to the Attachment D.

9. Peak Output Power Test

9.1 Test Standard and Limit

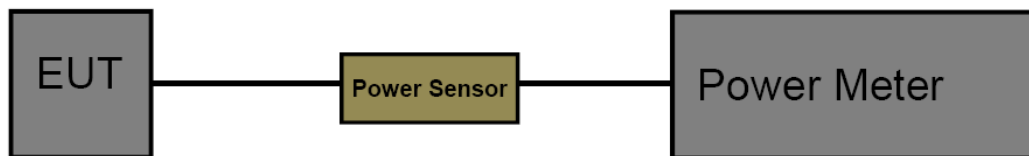
9.1.1 Test Standard

FCC Part 15.247 (b)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 v05r02.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

9.5 Test Data

Please refer to the Attachment E.

10. Power Spectral Density Test

10.1 Test Standard and Limit

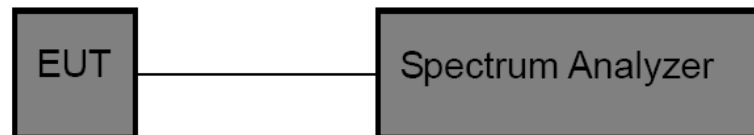
10.1.1 Test Standard

FCC Part 15.247 (e)

10.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

10.2 Test Setup



10.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 D01 v05r02.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to DTS channel centre frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

10.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

10.5 Test Data

Please refer to the Attachment F.

11. Antenna Requirement

11.1 Standard Requirement

10.1.1 Standard

FCC Part 15.203

10.1.2 Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

11.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 2 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

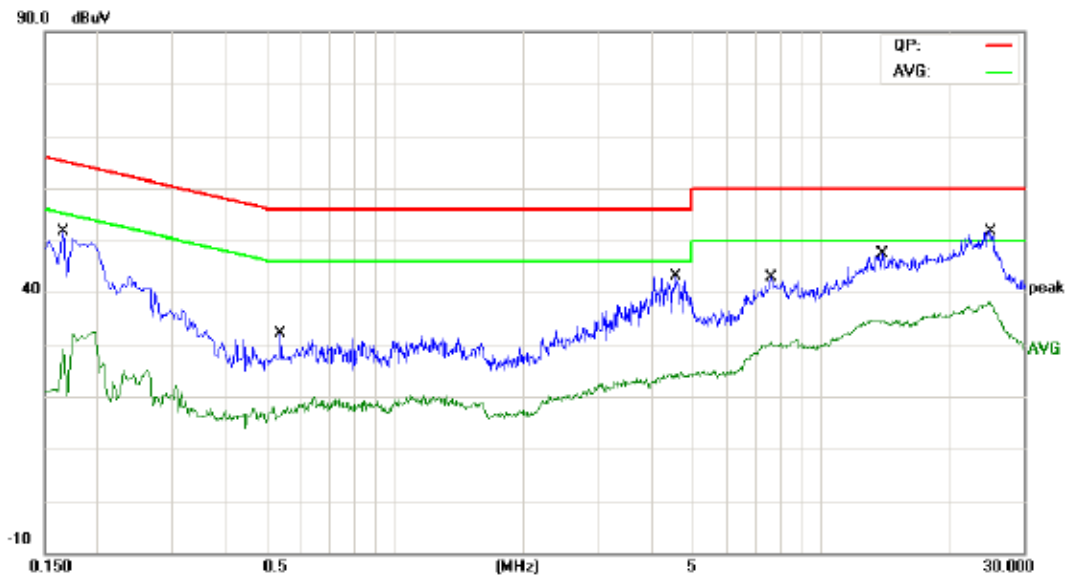
The EUT antenna is a Dipole Antenna. It complies with the standard requirement.

Antenna Type
<input type="checkbox"/> Permanent attached antenna
<input checked="" type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna

Attachment A-- Conducted Emission Test Data

Remark: All channels have been tested and Shows only the worst channels.

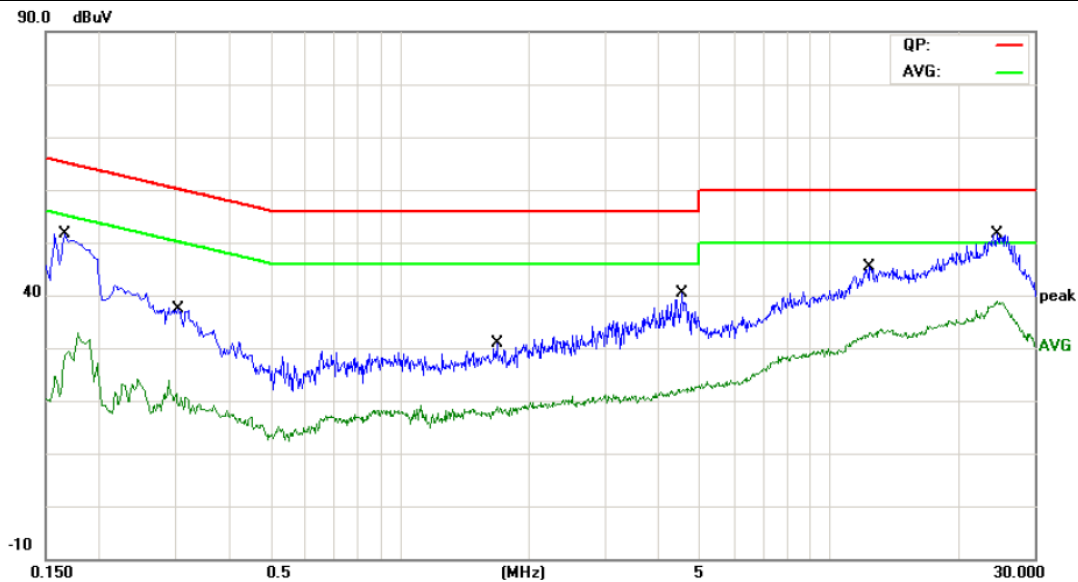
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Mode 1		
Remark:	Only worse case is reported		



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1658	25.42	9.62	35.04	65.16	-30.12	QP
2	0.1658	7.69	9.62	17.31	55.16	-37.85	AVG
3	0.5378	16.65	9.78	26.43	56.00	-29.57	QP
4	0.5378	7.49	9.78	17.27	46.00	-28.73	AVG
5	4.5734	20.38	9.82	30.20	56.00	-25.80	QP
6	4.5734	10.01	9.82	19.83	46.00	-26.17	AVG
7	7.6463	23.89	9.86	33.75	60.00	-26.25	QP
8	7.6463	14.67	9.86	24.53	50.00	-25.47	AVG
9	13.9146	29.56	9.86	39.42	60.00	-20.58	QP
10	13.9146	21.87	9.86	31.73	50.00	-18.27	AVG
11	25.0545	38.80	9.75	48.55	60.00	-11.45	QP
12 *	25.0545	30.29	9.75	40.04	50.00	-9.96	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Mode 1		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1658	25.44	9.62	35.06	65.16	-30.10	QP
2		0.1658	7.75	9.62	17.37	55.16	-37.79	AVG
3		0.3048	18.91	9.70	28.61	60.11	-31.50	QP
4		0.3048	6.67	9.70	16.37	50.11	-33.74	AVG
5		1.6800	13.92	9.83	23.75	56.00	-32.25	QP
6		1.6800	6.79	9.83	16.62	46.00	-29.38	AVG
7		4.5252	21.05	9.82	30.87	56.00	-25.13	QP
8		4.5252	10.13	9.82	19.95	46.00	-26.05	AVG
9		12.3835	29.86	9.86	39.72	60.00	-20.28	QP
10		12.3835	20.74	9.86	30.60	50.00	-19.40	AVG
11		24.5290	39.70	9.74	49.44	60.00	-10.56	QP
12	*	24.5290	31.25	9.74	40.99	50.00	-9.01	AVG

Emission Level= Read Level+ Correct Factor

Attachment B-- Radiated Emission Test Data

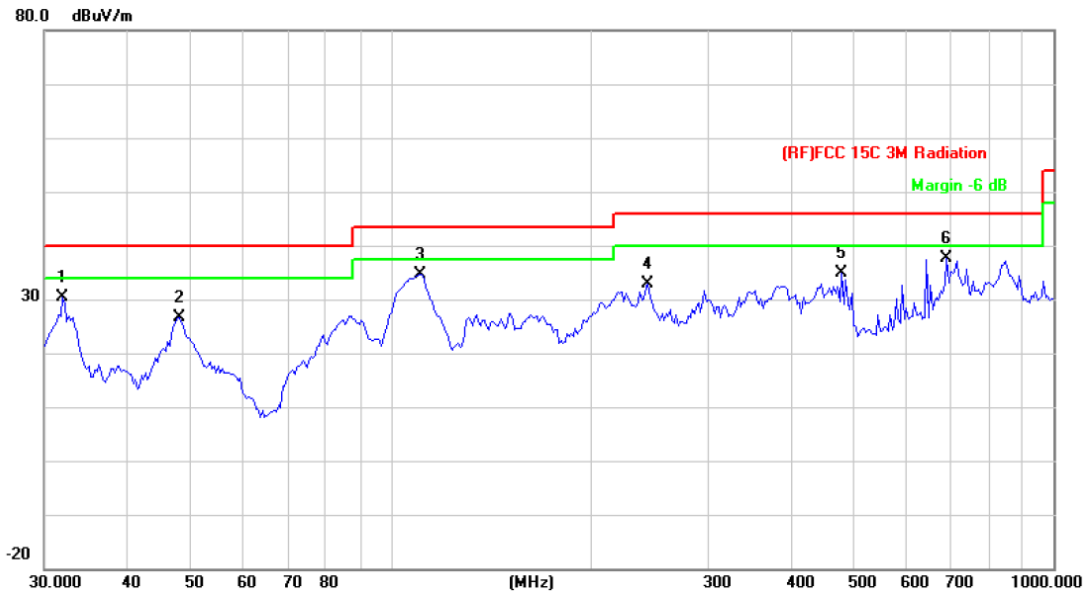
9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

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

30MHz~1GHz

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported.		

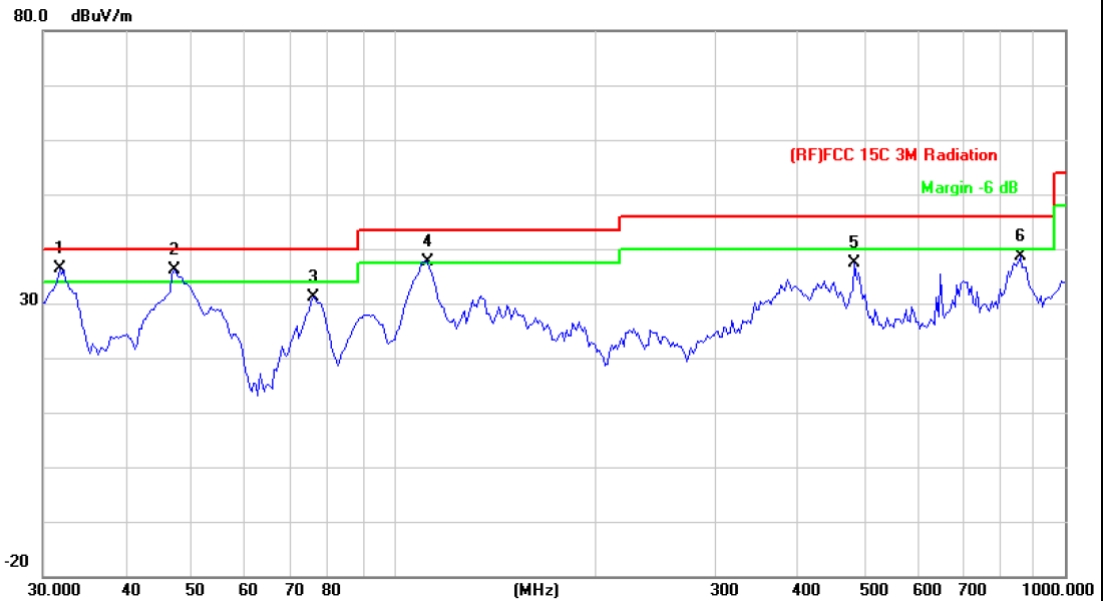


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		31.9546	44.85	-14.48	30.37	40.00	-9.63	QP
2		47.9940	49.41	-22.67	26.74	40.00	-13.26	QP
3		110.5687	57.16	-22.46	34.70	43.50	-8.80	QP
4		244.2321	50.18	-17.37	32.81	46.00	-13.19	QP
5		478.8456	45.82	-10.97	34.85	46.00	-11.15	QP
6	*	689.5644	44.54	-6.85	37.69	46.00	-8.31	QP

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	31.7313	50.72	-14.32	36.40	40.00	-3.60	QP
2	!	46.9948	58.55	-22.33	36.22	40.00	-3.78	QP
3		75.7114	54.13	-22.99	31.14	40.00	-8.86	QP
4	!	112.1305	60.15	-22.44	37.71	43.50	-5.79	QP
5		485.6093	48.21	-10.77	37.44	46.00	-8.56	QP
6		857.0247	43.75	-5.18	38.57	46.00	-7.43	QP

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

Above 1GHz

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz ANT. A		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4824.025	28.82	13.56	42.38	54.00	-11.62	AVG
2		4824.044	42.58	13.56	56.14	74.00	-17.86	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz ANT. A		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4824.001	28.69	13.56	42.25	54.00	-11.75	AVG
2		4824.022	43.89	13.56	57.45	74.00	-16.55	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz ANT. A		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.133	29.27	13.86	43.13	54.00	-10.87	AVG
2		4874.343	42.38	13.86	56.24	74.00	-17.76	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz ANT. A		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4874.133	43.57	13.86	57.43	74.00	-16.57	peak
2	*	4874.134	29.69	13.86	43.55	54.00	-10.45	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%																																				
Test Voltage:	AC 120V/60 Hz																																						
Ant. Pol.	Horizontal																																						
Test Mode:	TX B Mode 2462MHz ANT. A																																						
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.																																						
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector																															
1		4924.155	43.40	14.15	57.55	74.00	-16.45	peak																															
2	*	4924.344	29.49	14.15	43.64	54.00	-10.36	AVG																															
<p>Emission Level= Read Level+ Correct Factor</p>																																							

Temperature:	25 °C	Relative Humidity:	55%																																				
Test Voltage:	AC 120V/60 Hz																																						
Ant. Pol.	Vertical																																						
Test Mode:	TX B Mode 2462MHz ANT. A																																						
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.																																						
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector																															
1	*	4924.133	29.40	14.15	43.55	54.00	-10.45	AVG																															
2		4924.333	42.19	14.15	56.34	74.00	-17.66	peak																															
<p>Emission Level= Read Level+ Correct Factor</p>																																							

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz ANT. A.		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.134	27.77	13.56	41.33	54.00	-12.67	AVG
2		4824.445	43.88	13.56	57.44	74.00	-16.56	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz ANT. A.		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.155	43.59	13.56	57.15	74.00	-16.85	peak
2	*	4824.334	28.80	13.56	42.36	54.00	-11.64	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz ANT. A.		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.133	44.27	13.86	58.13	74.00	-15.87	peak
2	*	4874.125	29.29	13.86	43.15	54.00	-10.85	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz ANT. A.		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4874.133	44.61	13.86	58.47	74.00	-15.53	peak
2	*	4874.133	29.19	13.86	43.05	54.00	-10.95	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%																																
Test Voltage:	AC 120V/60 Hz																																		
Ant. Pol.	Horizontal																																		
Test Mode:	TX G Mode 2462MHz ANT. A.																																		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.																																		
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measurement</th> <th>Limit</th> <th>Over</th> </tr> <tr> <th></th> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB/m</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>4924.343</td> <td>43.26</td> <td>14.15</td> <td>57.41</td> <td>74.00</td> <td>-16.59 peak</td> </tr> <tr> <td>2</td> <td>*</td> <td>4924.344</td> <td>28.96</td> <td>14.15</td> <td>43.11</td> <td>54.00</td> <td>-10.89 AVG</td> </tr> </tbody> </table>				No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector	1		4924.343	43.26	14.15	57.41	74.00	-16.59 peak	2	*	4924.344	28.96	14.15	43.11	54.00	-10.89 AVG
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																												
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector																												
1		4924.343	43.26	14.15	57.41	74.00	-16.59 peak																												
2	*	4924.344	28.96	14.15	43.11	54.00	-10.89 AVG																												
Emission Level= Read Level+ Correct Factor																																			

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz ANT. A.		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worse case ANT. A.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.244	42.98	14.15	57.13	74.00	-16.87	peak
2	*	4924.341	29.40	14.15	43.55	54.00	-10.45	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz							
Ant. Pol.	Horizontal							
Test Mode:	TX n(HT20) Mode 2412MHz ANT. A+ANT. B							
Remark:	No report for the emission which more than 15dB below the prescribed limit.							
<hr/>								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.132	29.59	13.56	43.15	54.00	-10.85	AVG
2		4824.133	42.89	13.56	56.45	74.00	-17.55	peak
<hr/>								
Emission Level= Read Level+ Correct Factor								

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT20) Mode 2412MHz ANT. A+ANT. B		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4824.132	29.59	13.56	43.15	54.00	-10.85	AVG
2		4824.133	42.89	13.56	56.45	74.00	-17.55	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT20) Mode 2437MHz ANT. A+ANT. B		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.334	43.57	13.86	57.43	74.00	-16.57	peak
2	*	4874.344	32.36	13.86	46.22	54.00	-7.78	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT20) Mode 2437MHz ANT. A+ANT. B		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4874.133	43.48	13.86	57.34	74.00	-16.66	peak
2	*	4874.135	29.66	13.86	43.52	54.00	-10.48	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT20) Mode 2462MHz ANT. A+ANT. B		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.344	43.98	14.15	58.13	74.00	-15.87	peak
2	*	4924.554	29.43	14.15	43.58	54.00	-10.42	AVG

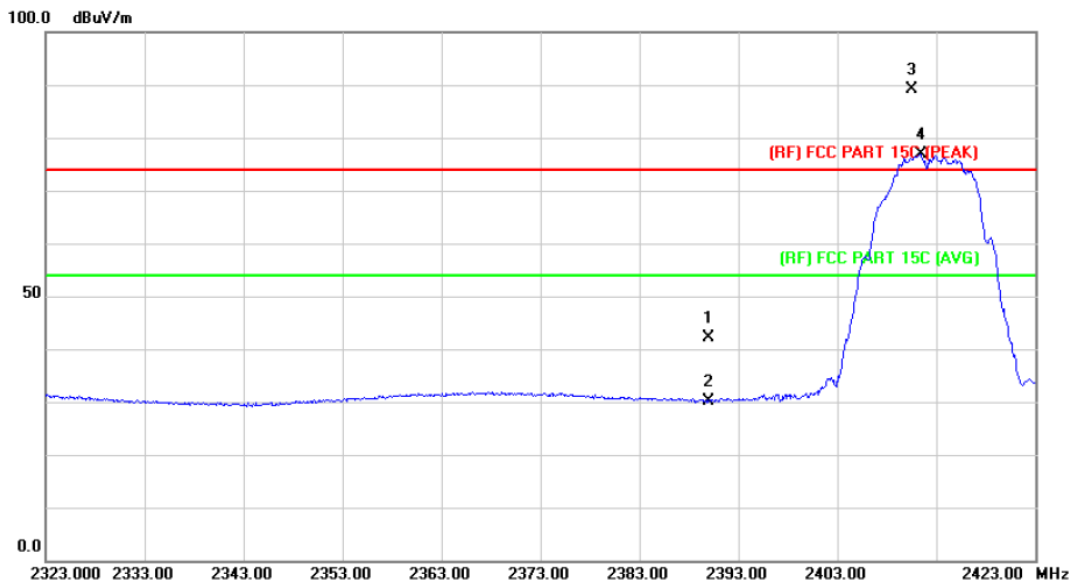
Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%																																				
Test Voltage:	AC 120V/60 Hz																																						
Ant. Pol.	Vertical																																						
Test Mode:	TX n(HT20) Mode 2462MHz ANT. A+ANT. B																																						
Remark:	No report for the emission which more than 15dB below the prescribed limit.																																						
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measurement</th> <th>Limit</th> <th>Over</th> <th>Detector</th> </tr> <tr> <th></th> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB/m</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>4924.343</td> <td>43.29</td> <td>14.15</td> <td>57.44</td> <td>74.00</td> <td>-16.56</td> <td>peak</td> </tr> <tr> <td>2</td> <td>*</td> <td>4924.355</td> <td>29.40</td> <td>14.15</td> <td>43.55</td> <td>54.00</td> <td>-10.45</td> <td>AVG</td> </tr> </tbody> </table>				No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		1		4924.343	43.29	14.15	57.44	74.00	-16.56	peak	2	*	4924.355	29.40	14.15	43.55	54.00	-10.45	AVG
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB																																
1		4924.343	43.29	14.15	57.44	74.00	-16.56	peak																															
2	*	4924.355	29.40	14.15	43.55	54.00	-10.45	AVG																															
<p>Emission Level= Read Level+ Correct Factor</p>																																							

Attachment C-- Restricted Bands Requirement and Band-edge Test Data

(1) Radiation Test

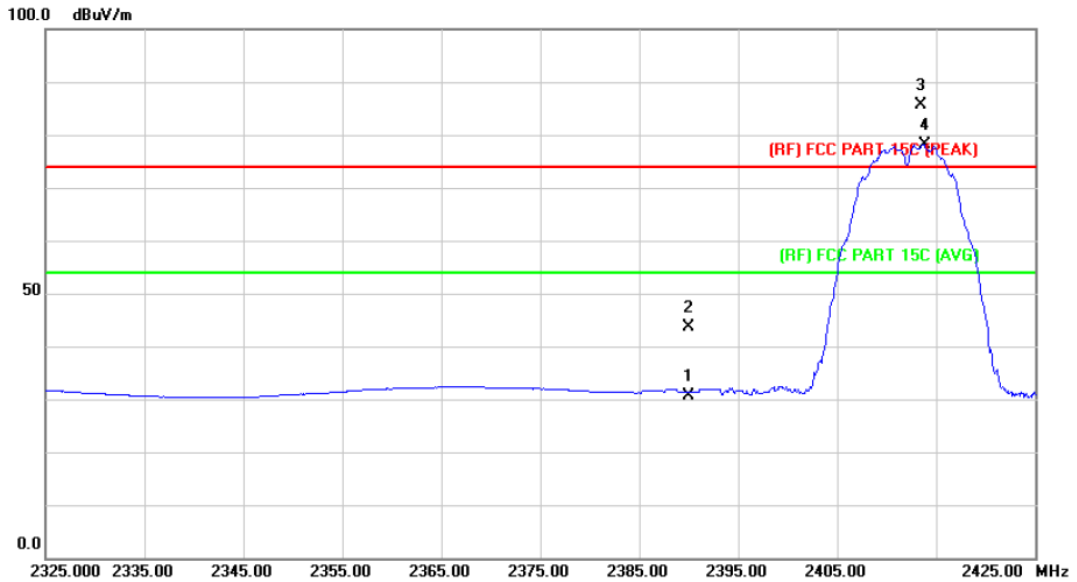
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz ANT. A.		
Remark:	Only show the worse case ANT. A.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.36	0.77	42.13	74.00	-31.87	peak
2		2390.000	29.37	0.77	30.14	54.00	-23.86	AVG
3	X	2410.600	88.27	0.86	89.13	Fundamental Frequency		peak
4	*	2411.400	75.93	0.86	76.79	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

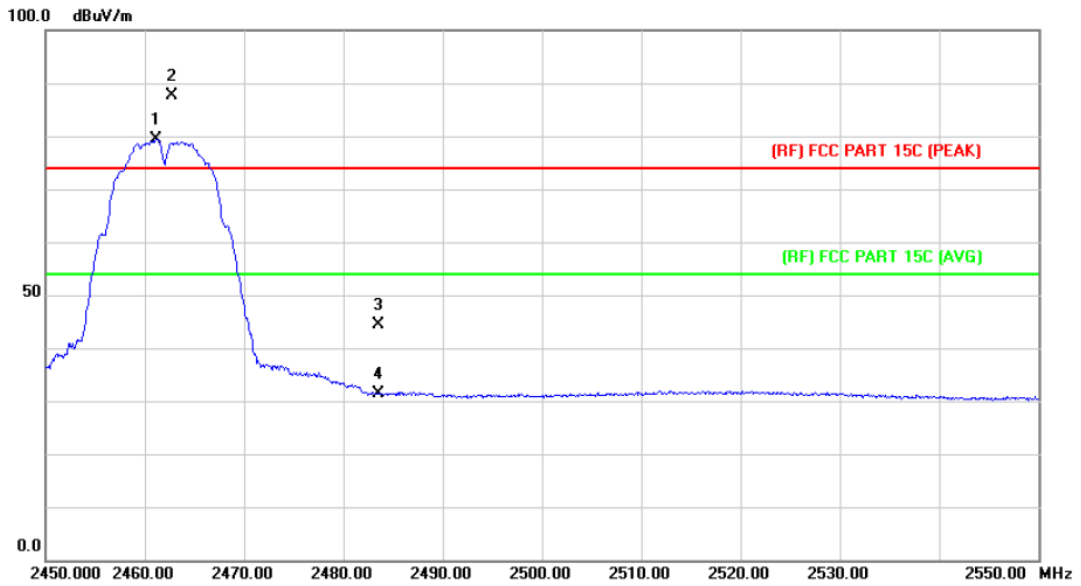
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz ANT. A.		
Remark:	Only show the worse case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	29.97	0.77	30.74	54.00	-23.26	AVG
2		2390.000	42.75	0.77	43.52	54.00	-10.48	AVG
3	*	2413.400	84.68	0.86	85.54	Fundamental Frequency		peak
4	X	2413.800	77.28	0.86	78.14	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

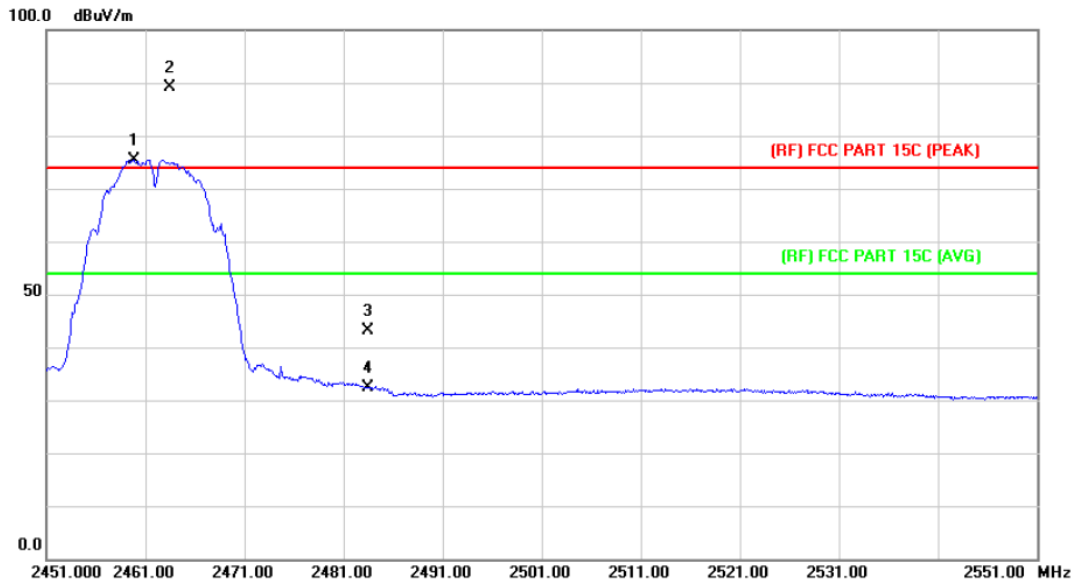
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz ANT. A.		
Remark:	Only show the worse case ANT. A.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	2461.200	78.34	1.07	79.41	Fundamental Frequency		AVG
2	X	2462.700	86.44	1.08	87.52	Fundamental Frequency		peak
3		2483.500	43.09	1.17	44.26	74.00	-29.74	peak
4		2483.500	30.17	1.17	31.34	54.00	-22.66	AVG

Emission Level= Read Level+ Correct Factor

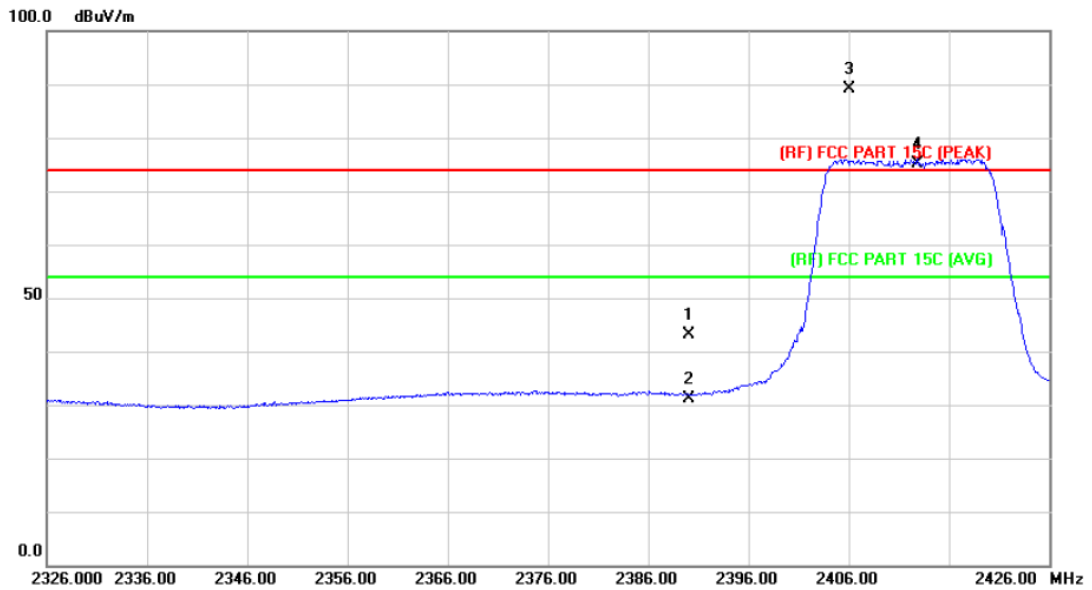
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz ANT. A.		
Remark:	Only show the worse case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2459.800	74.40	1.06	75.46	Fundamental Frequency		AVG
2	X	2463.400	88.03	1.08	89.11	Fundamental Frequency		peak
3		2483.500	41.91	1.17	43.08	74.00	-30.92	peak
4		2483.500	31.23	1.17	32.40	54.00	-21.60	AVG

Emission Level= Read Level+ Correct Factor

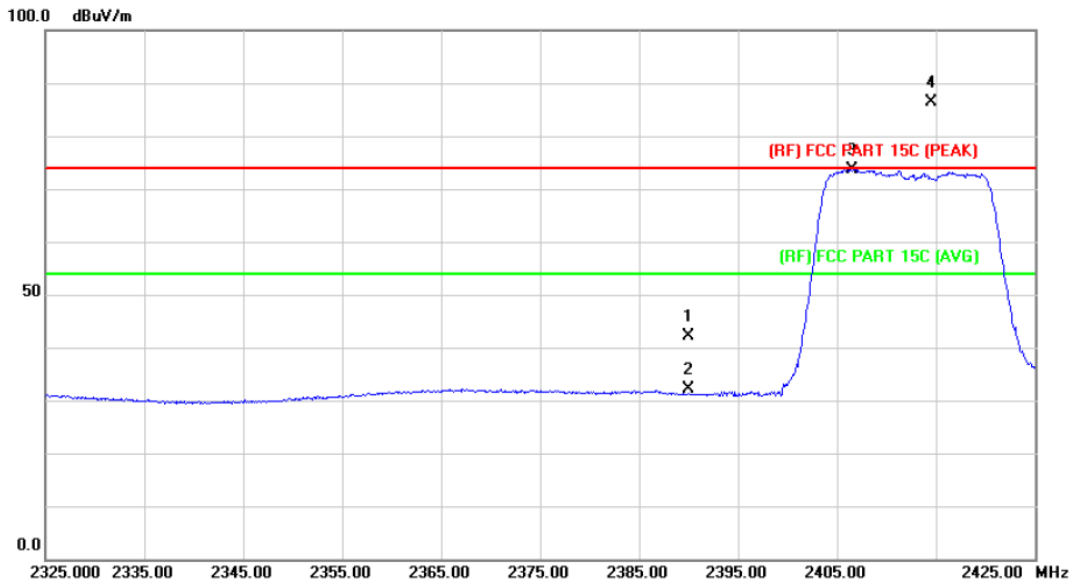
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz ANT. A.		
Remark:	Only show the worse case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	42.36	0.77	43.13	74.00	-30.87	peak
2		2390.000	30.43	0.77	31.20	54.00	-22.80	AVG
3	X	2406.100	88.29	0.84	89.13	Fundamental Frequency		peak
4	*	2412.900	74.27	0.86	75.13	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

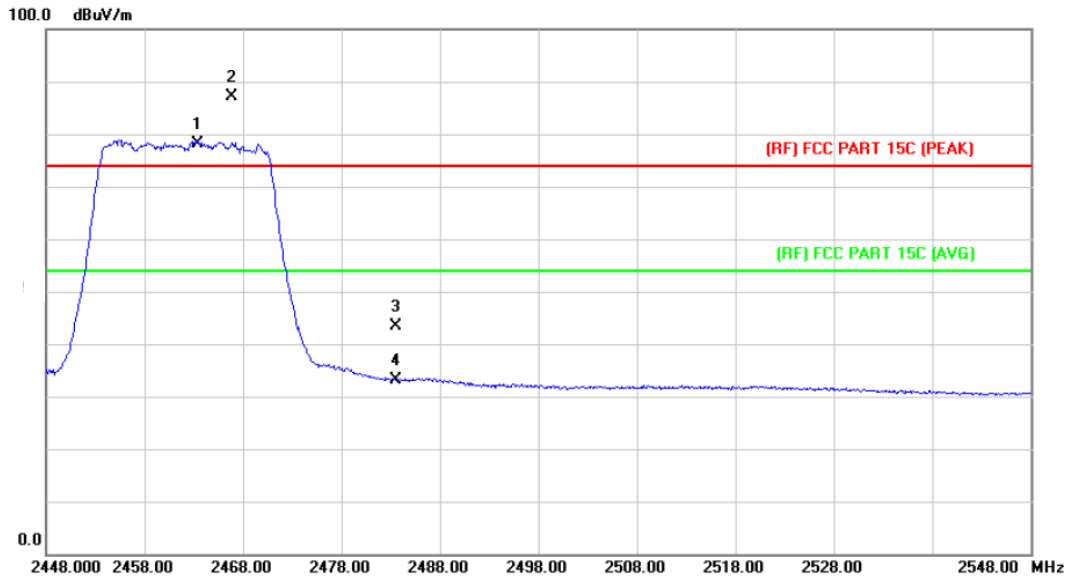
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz ANT. A.		
Remark:	Only show the worse case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	41.33	0.77	42.10	74.00	-31.90	peak
2		2390.000	31.34	0.77	32.11	54.00	-21.89	AVG
3	*	2406.600	72.84	0.84	73.68	Fundamental Frequency		AVG
4	X	2414.500	85.56	0.88	86.44	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

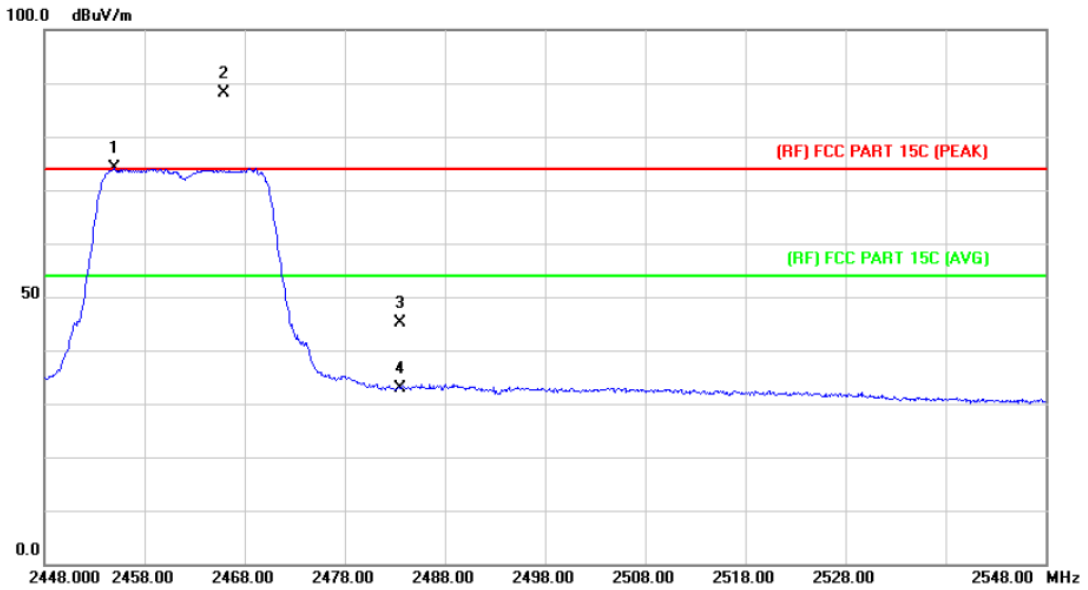
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz ANT. A.		
Remark:	Only show the worse case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2463.400	77.07	1.08	78.15	Fundamental Frequency		AVG
2	X	2466.800	86.14	1.10	87.24	Fundamental Frequency		peak
3		2483.500	42.30	1.17	43.47	74.00	-30.53	peak
4		2483.500	32.03	1.17	33.20	54.00	-20.80	AVG

Emission Level= Read Level+ Correct Factor

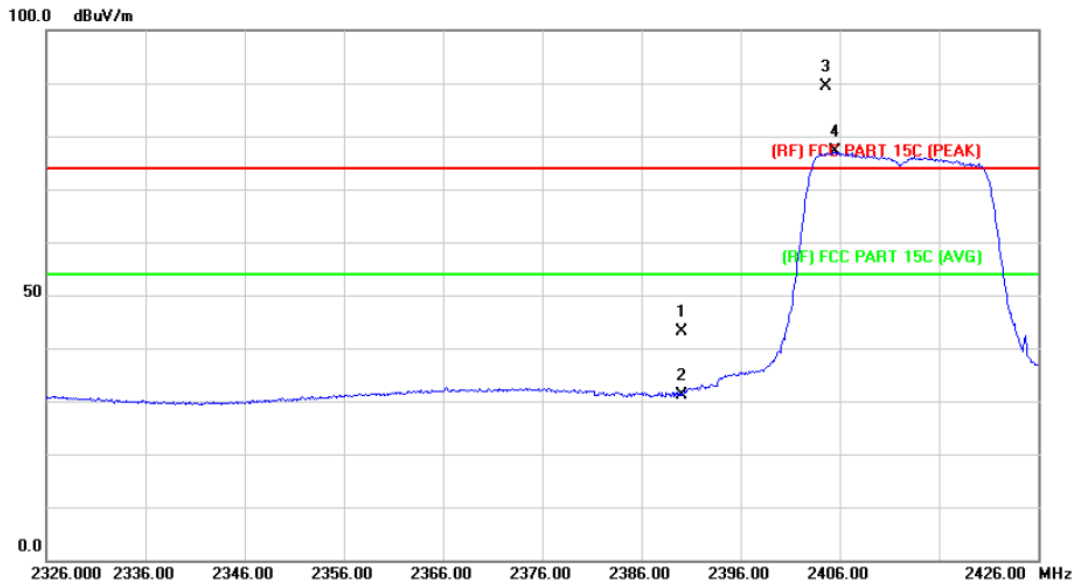
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz ANT. A.		
Remark:	Only show the worse case ANT. A.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2455.000	72.98	1.05	74.03	Fundamental Frequency		AVG
2	X	2465.900	87.04	1.09	88.13	Fundamental Frequency		peak
3		2483.500	43.95	1.17	45.12	74.00	-28.88	peak
4		2483.500	31.74	1.17	32.91	54.00	-21.09	AVG

Emission Level= Read Level+ Correct Factor

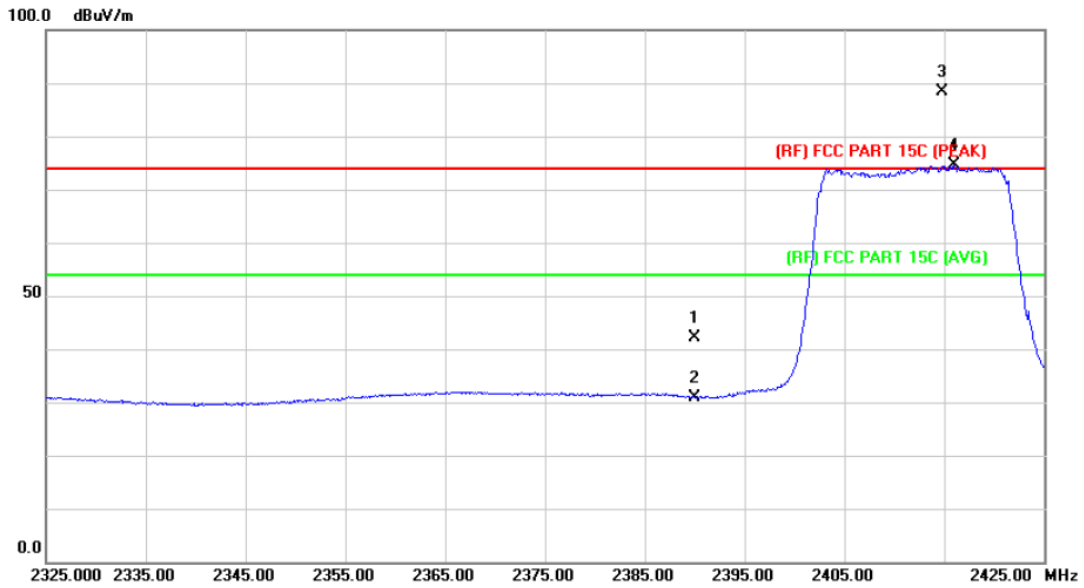
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz ANT. A.+ANT. B		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	42.46	0.77	43.23	74.00	-30.77	peak
2		2390.000	30.48	0.77	31.25	54.00	-22.75	AVG
3	X	2404.600	88.60	0.83	89.43	Fundamental Frequency		peak
4	*	2405.500	76.37	0.84	77.21	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

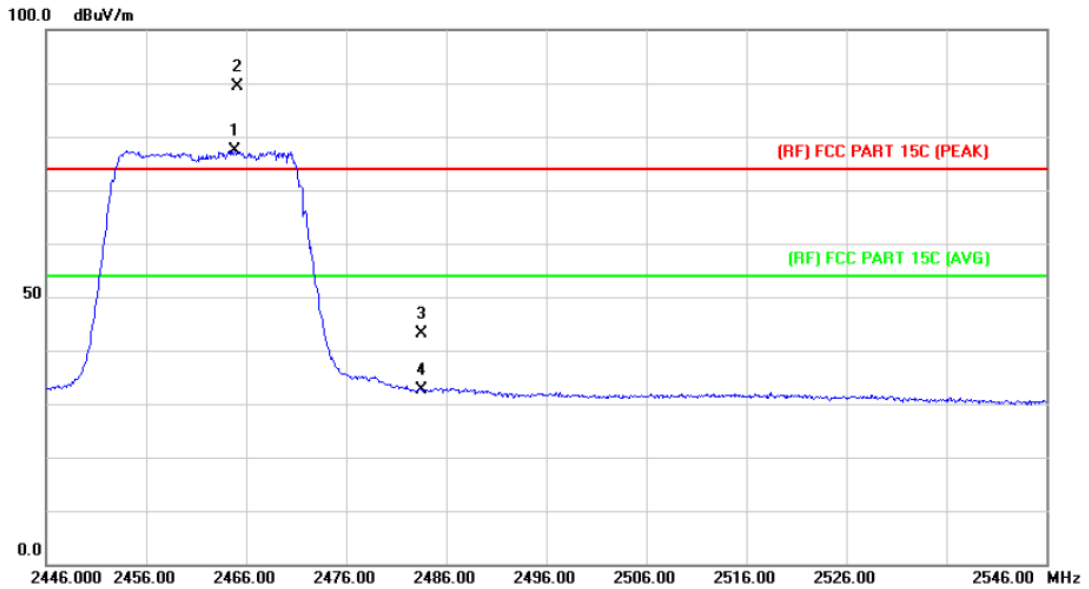
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz ANT. A.+ANT. B		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	41.36	0.77	42.13	74.00	-31.87	peak
2		2390.000	30.14	0.77	30.91	54.00	-23.09	AVG
3	X	2414.800	87.55	0.88	88.43	Fundamental Frequency		peak
4	*	2416.000	73.82	0.88	74.70	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

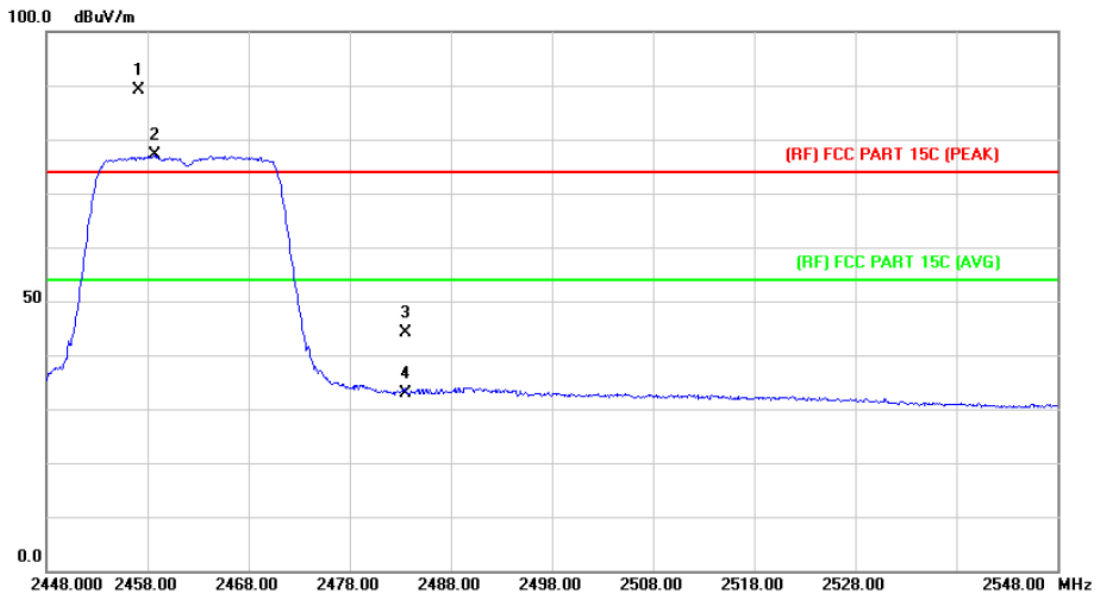
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz +ANT. B		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2464.900	76.39	1.09	77.48	Fundamental Frequency		AVG
2	X	2465.200	88.34	1.09	89.43	Fundamental Frequency		peak
3		2483.500	42.08	1.17	43.25	74.00	-30.75	peak
4		2483.500	31.37	1.17	32.54	54.00	-21.46	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz ANT. A.+ANT. B		
Remark:	N/A		

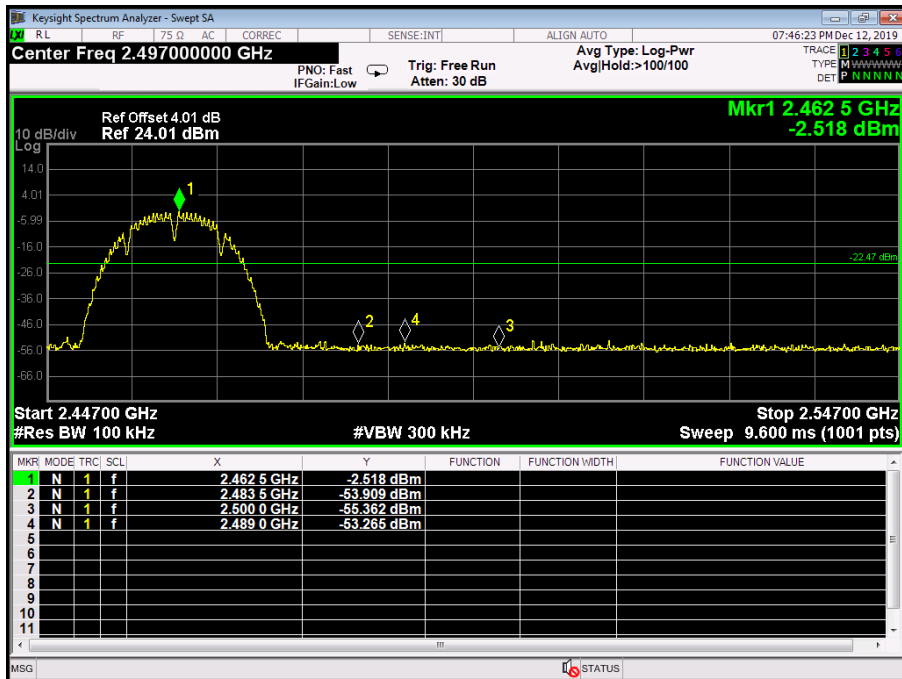
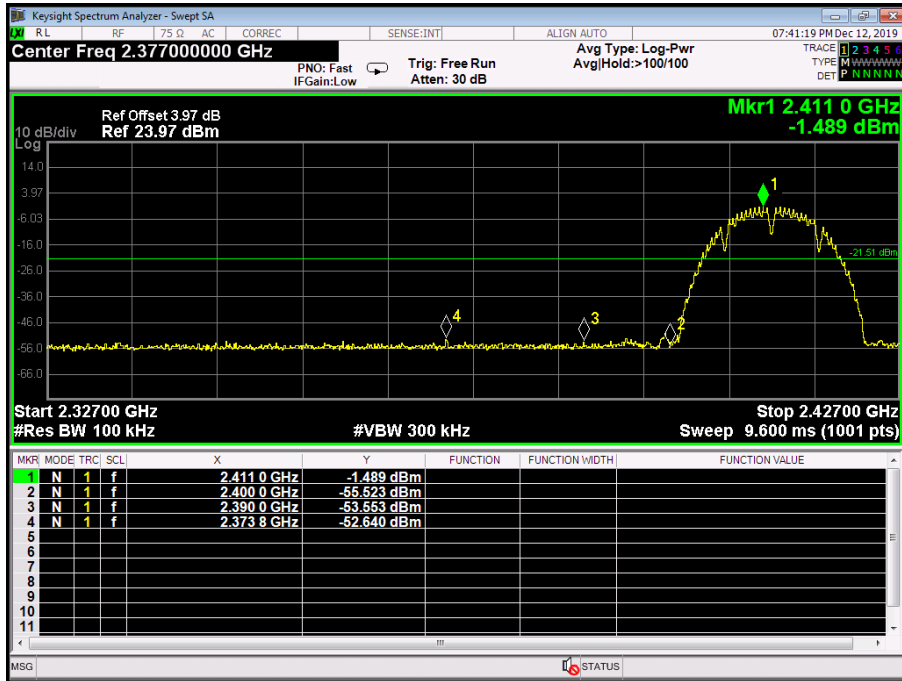


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2457.100	88.07	1.05	89.12	Fundamental Frequency		peak
2	*	2458.700	75.97	1.06	77.03	Fundamental Frequency		AVG
3		2483.500	42.99	1.17	44.16	74.00	-29.84	peak
4		2483.500	31.59	1.17	32.76	54.00	-21.24	AVG

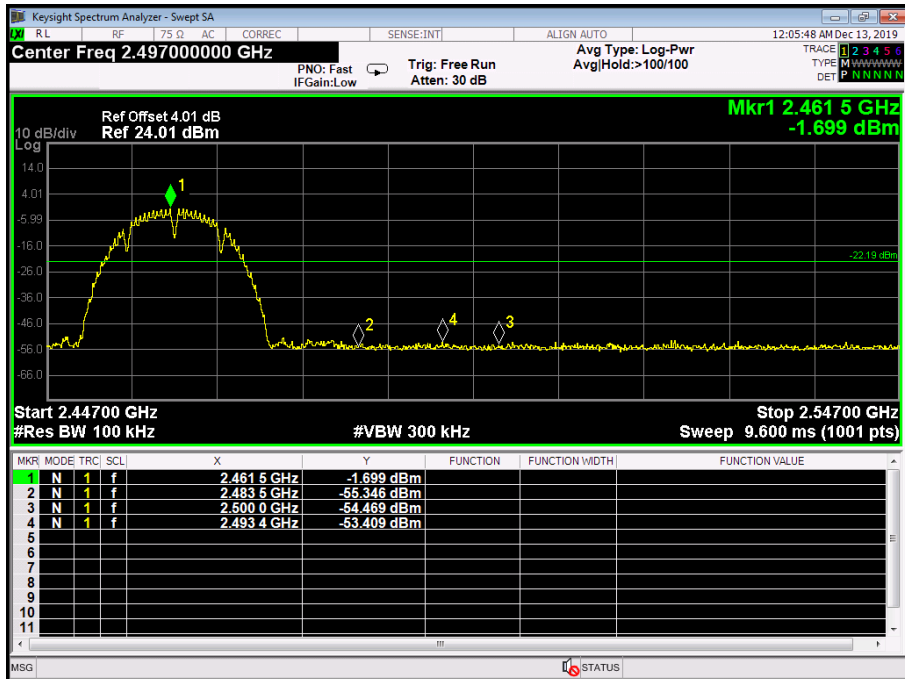
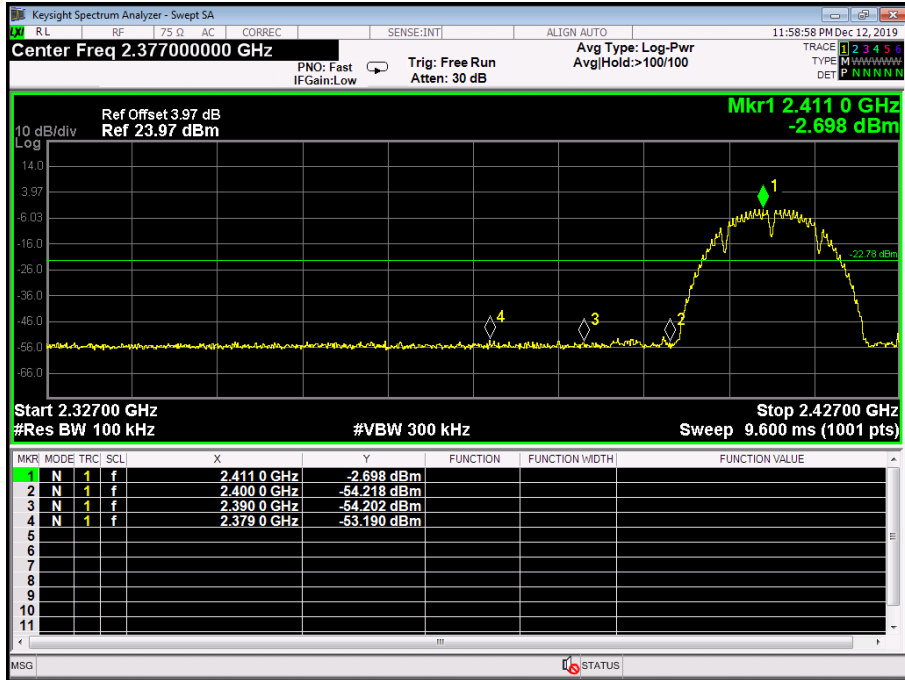
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

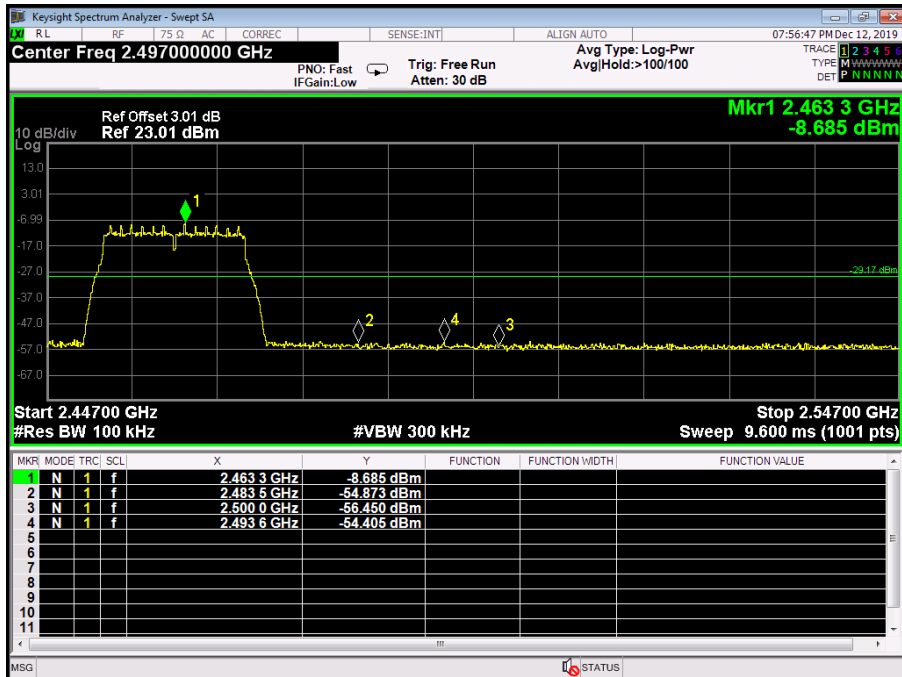
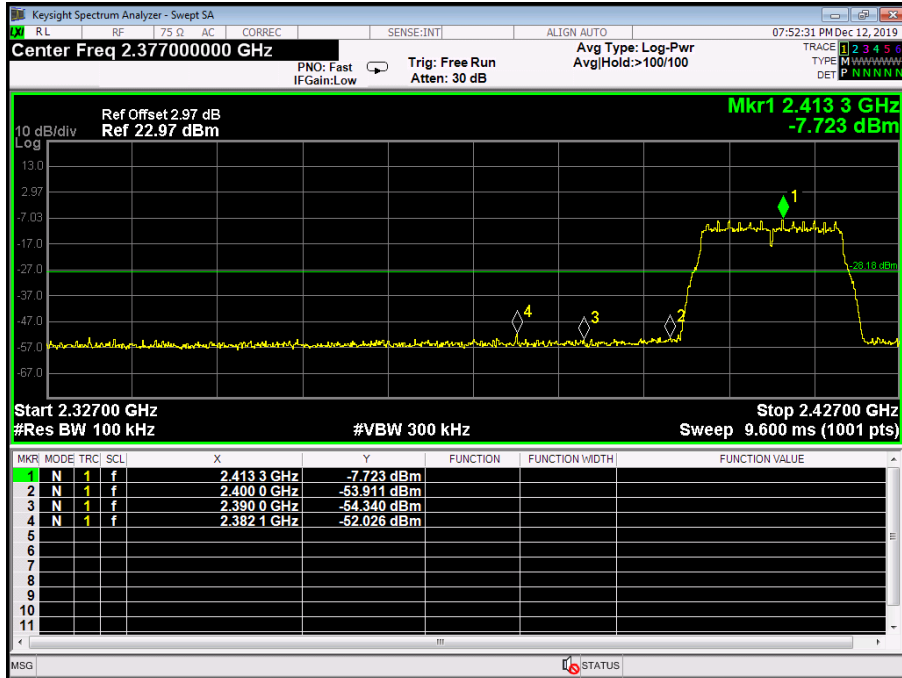
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz ANT. A		
Remark:	The EUT is programed in continuously transmitting mode		



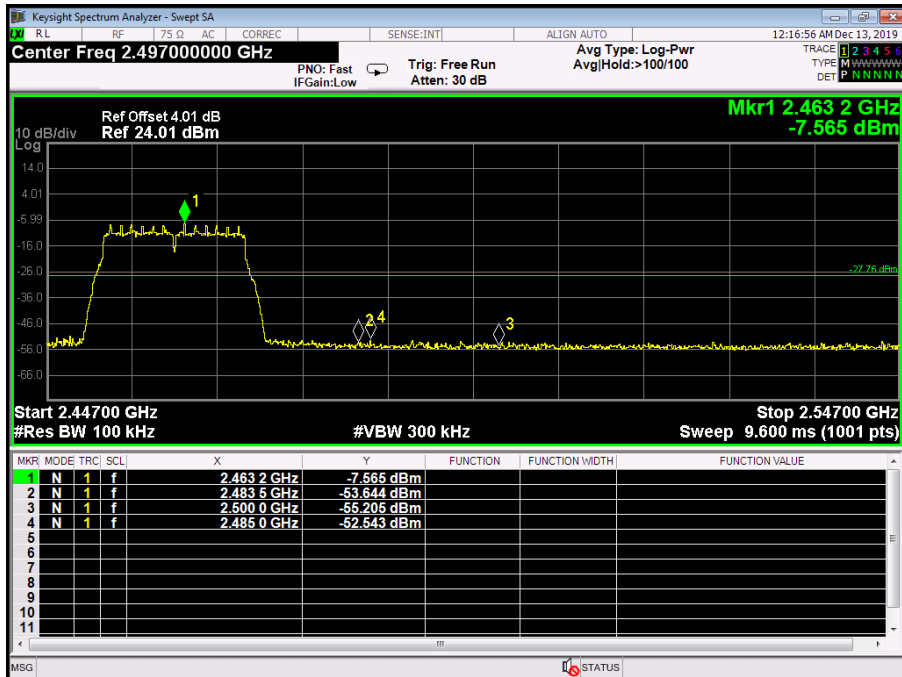
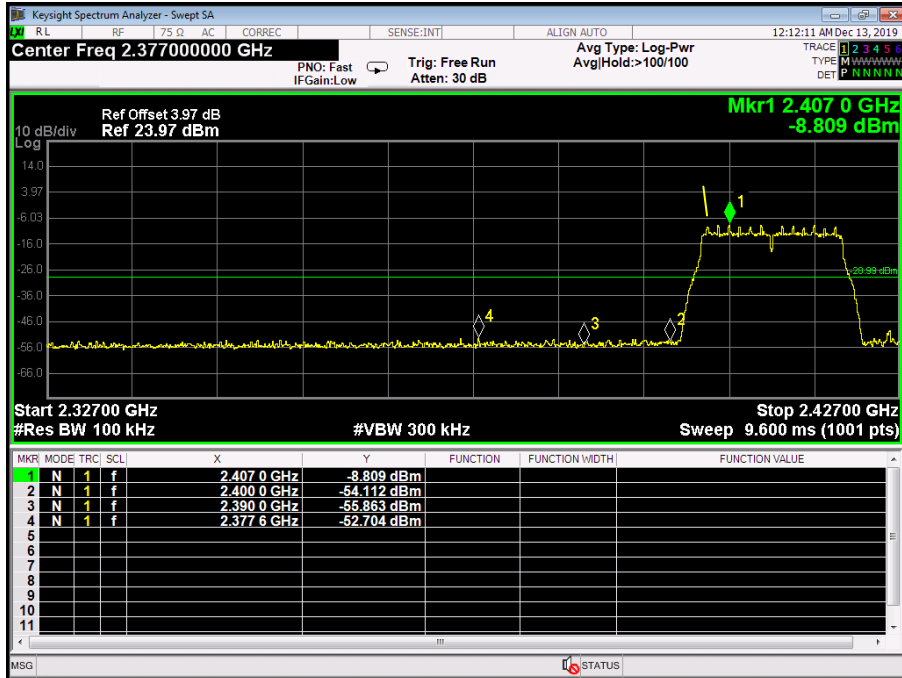
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz ANT. B		
Remark:	The EUT is programed in continuously transmitting mode		



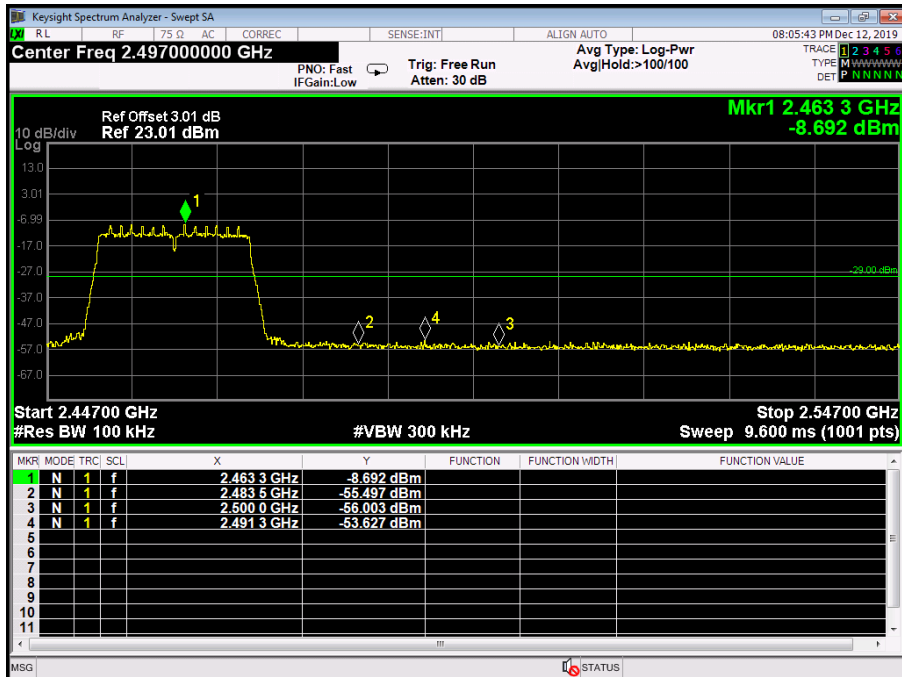
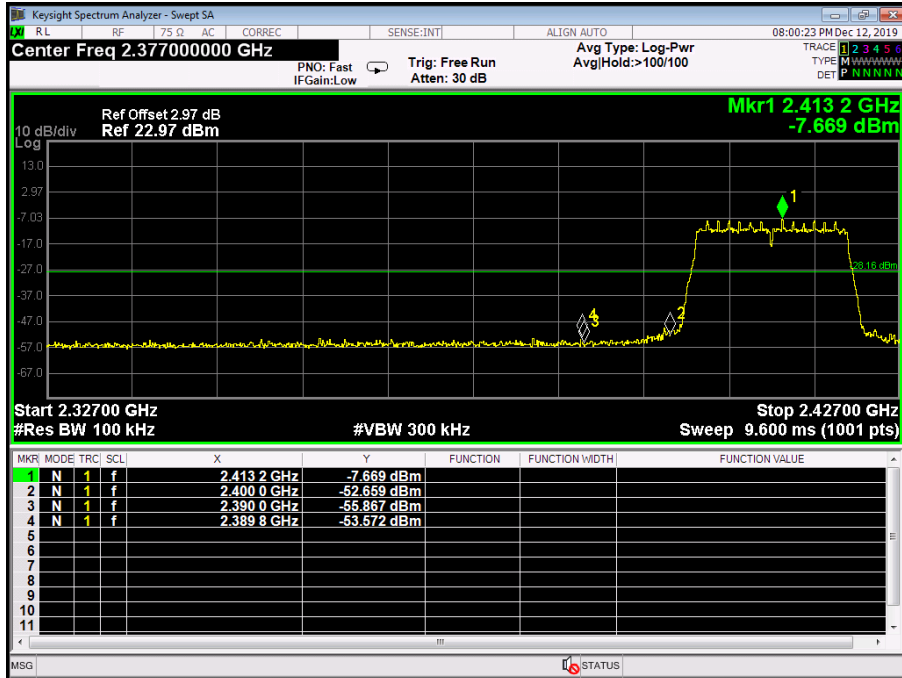
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz ANT. A		
Remark:	The EUT is programed in continuously transmitting mode		



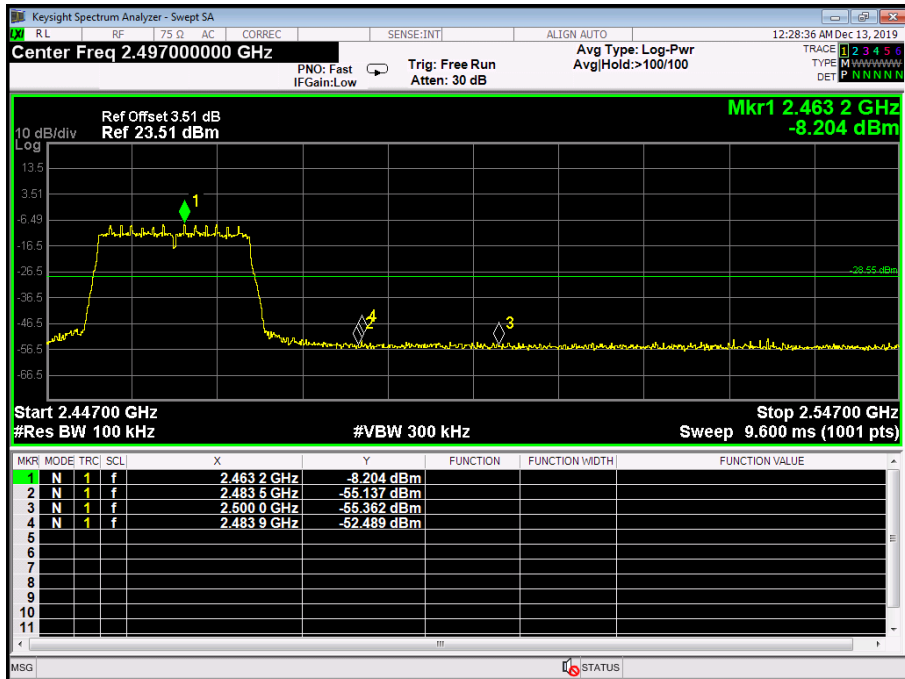
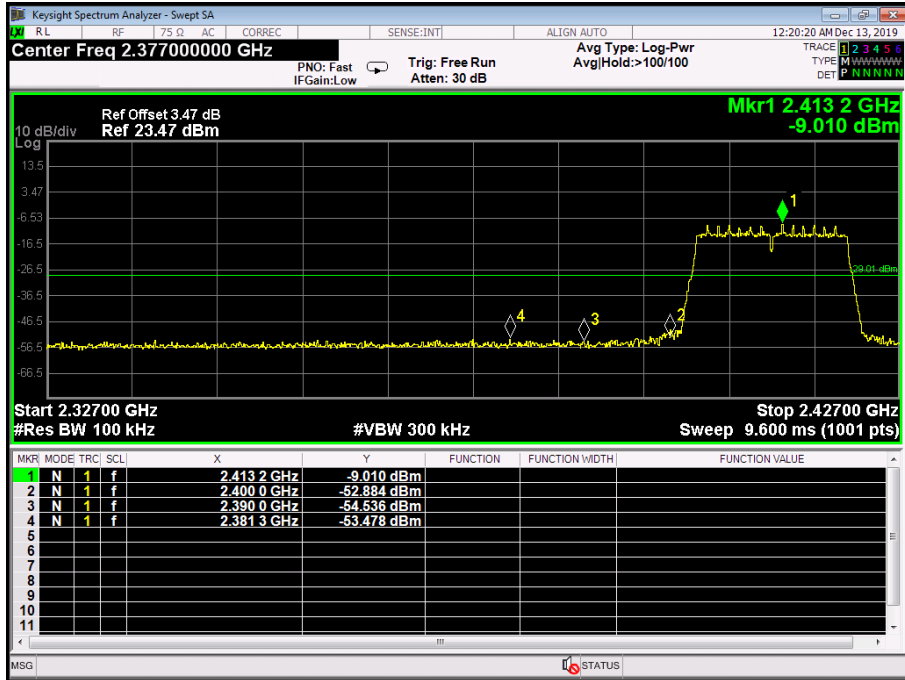
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz ANT. B		
Remark:	The EUT is programed in continuously transmitting mode		



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT. A		
Remark:	The EUT is programed in continuously transmitting mode		



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT. B		
Remark:	The EUT is programed in continuously transmitting mode		

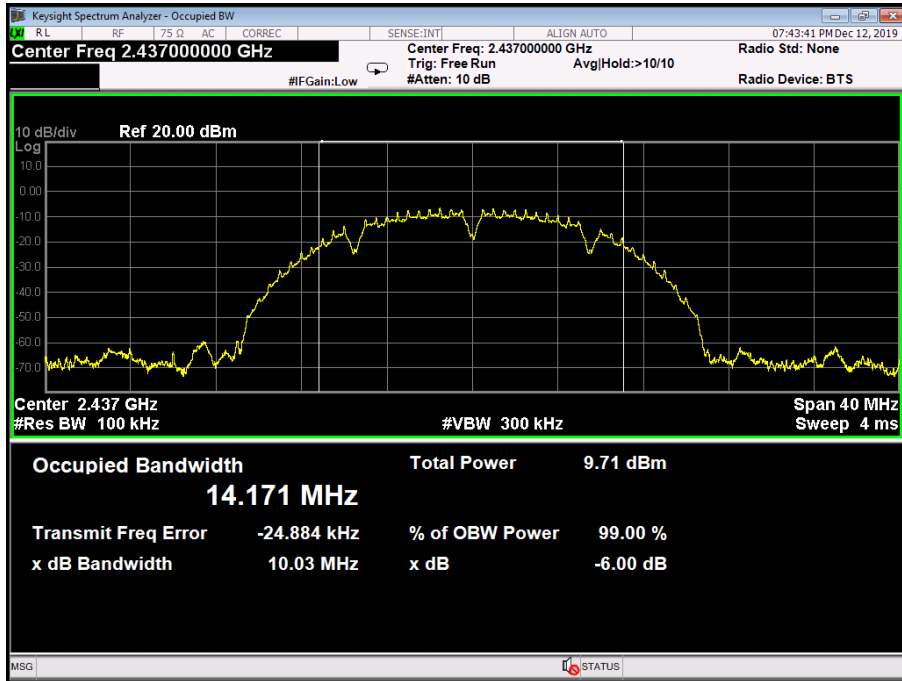


Attachment D-- Bandwidth Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11B Mode ANT. A		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.27	14.238	>=0.5
2437	10.03	14.171	
2462	10.04	14.236	
802.11B Mode			
2412 MHz			

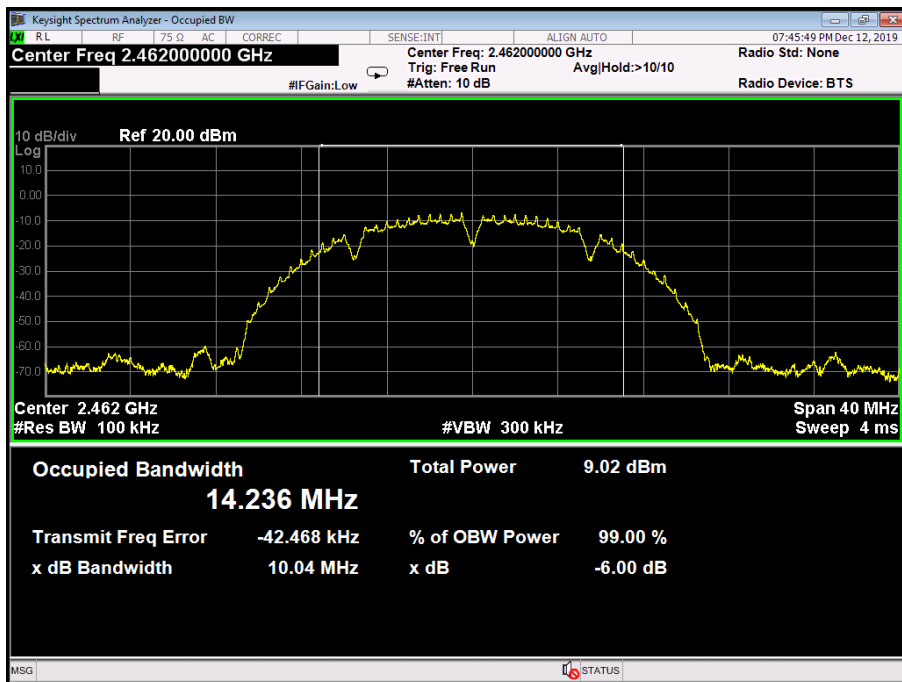
802.11B Mode

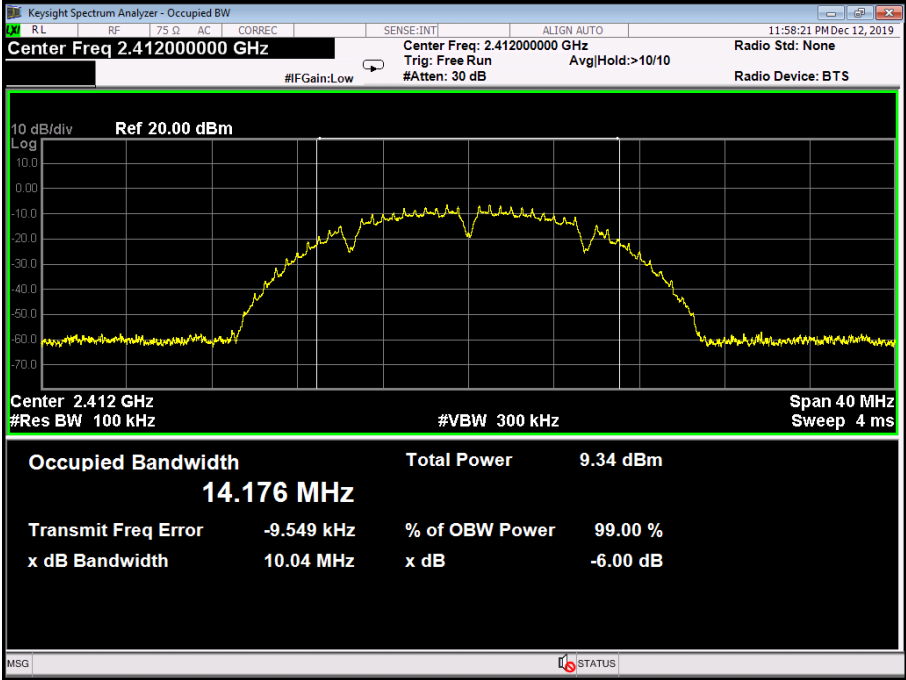
2437 MHz



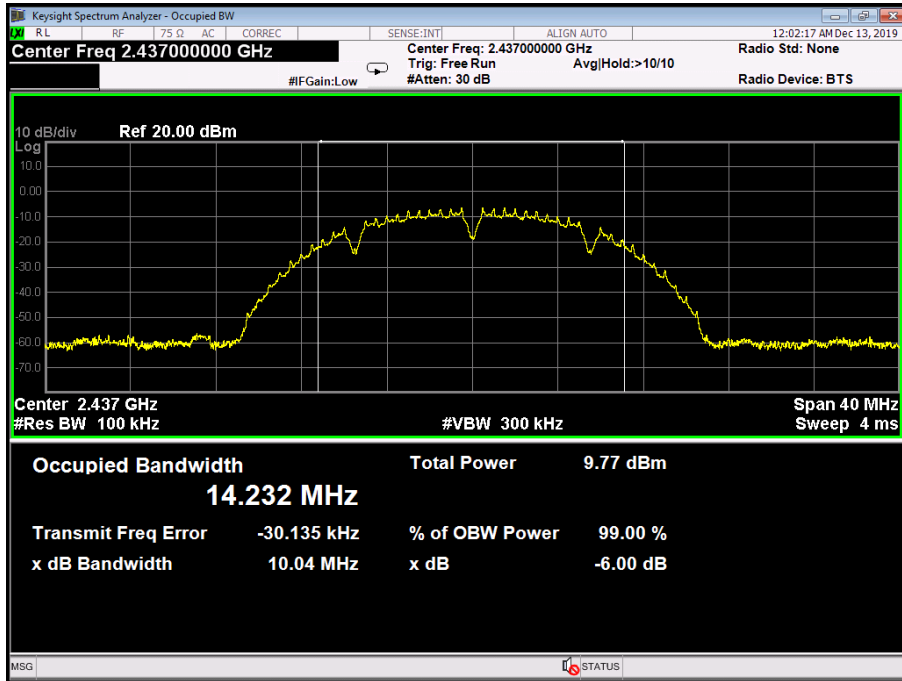
802.11B Mode

2462 MHz

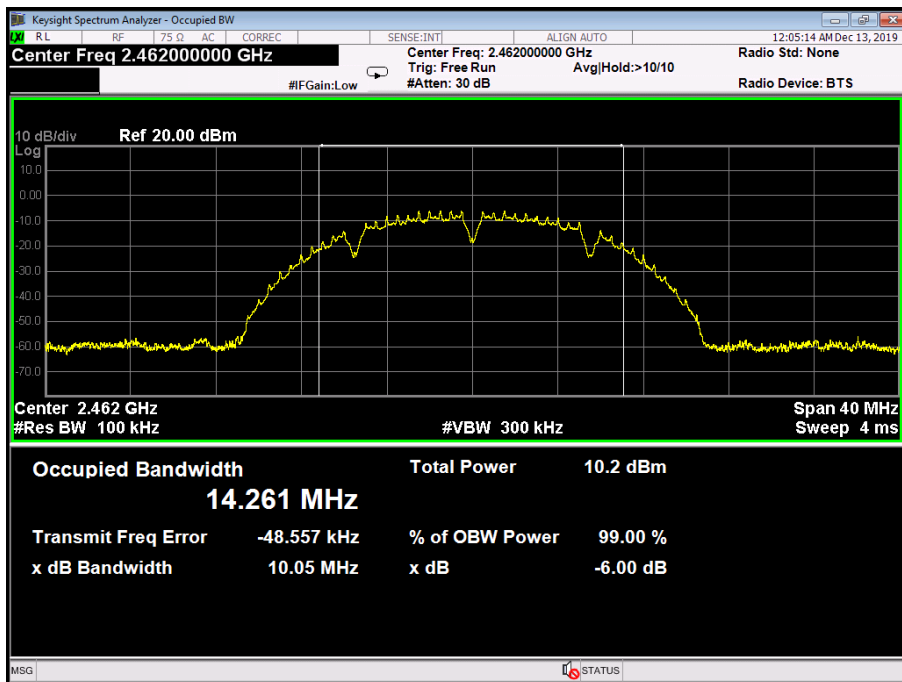


Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11B Mode ANT. B		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.04	14.176	>=0.5
2437	10.04	14.232	
2462	10.05	14.261	
802.11B Mode			
2412 MHz			
			

802.11B Mode
2437 MHz



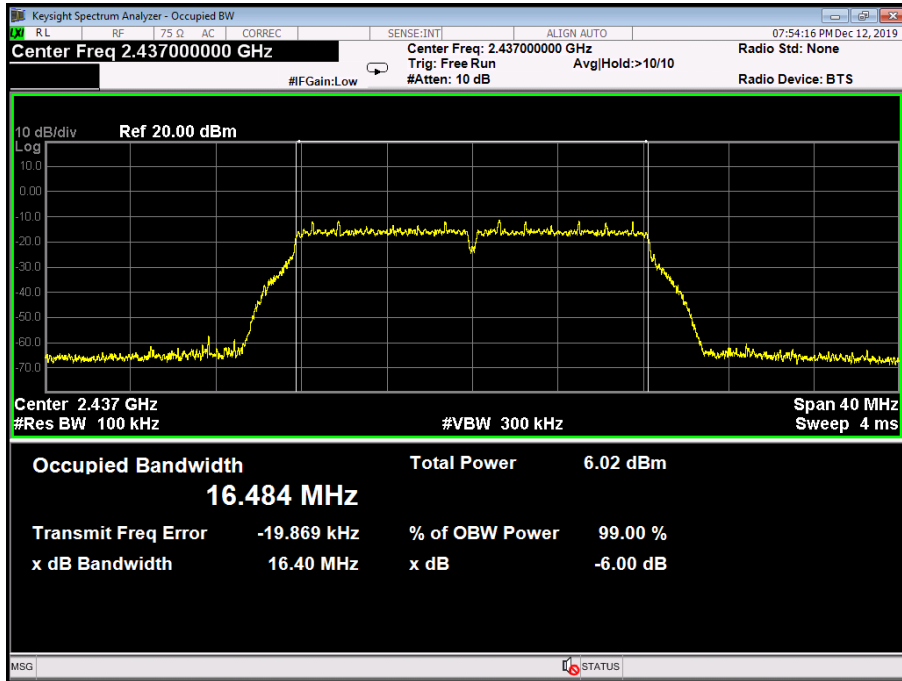
802.11B Mode
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11G Mode ANT. A		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.54	17.096	>=0.5
2437	16.40	16.484	
2462	16.36	16.486	
802.11G Mode			
2412 MHz			

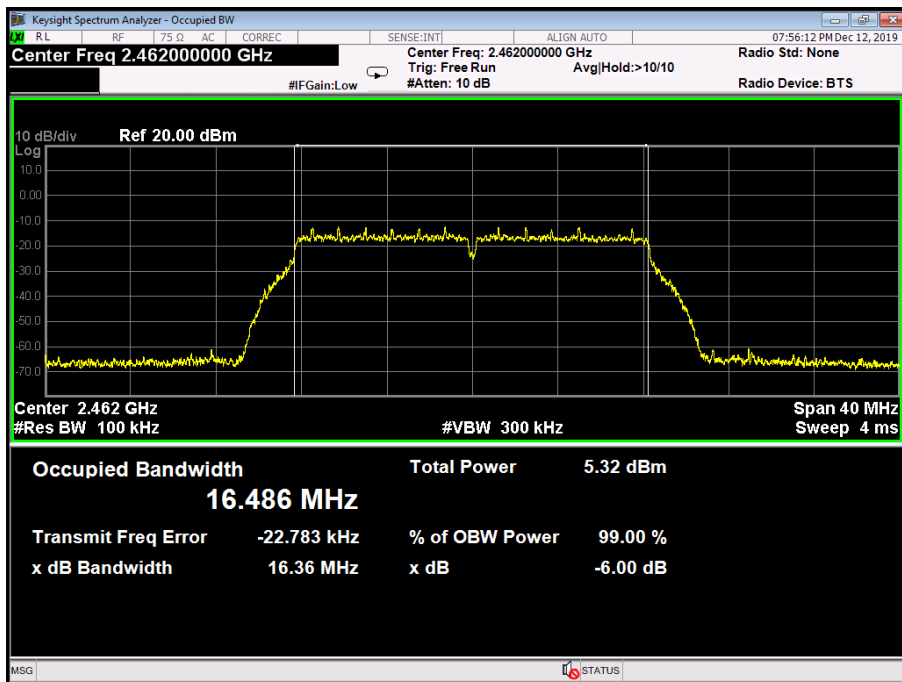
802.11G Mode

2437 MHz



802.11G Mode

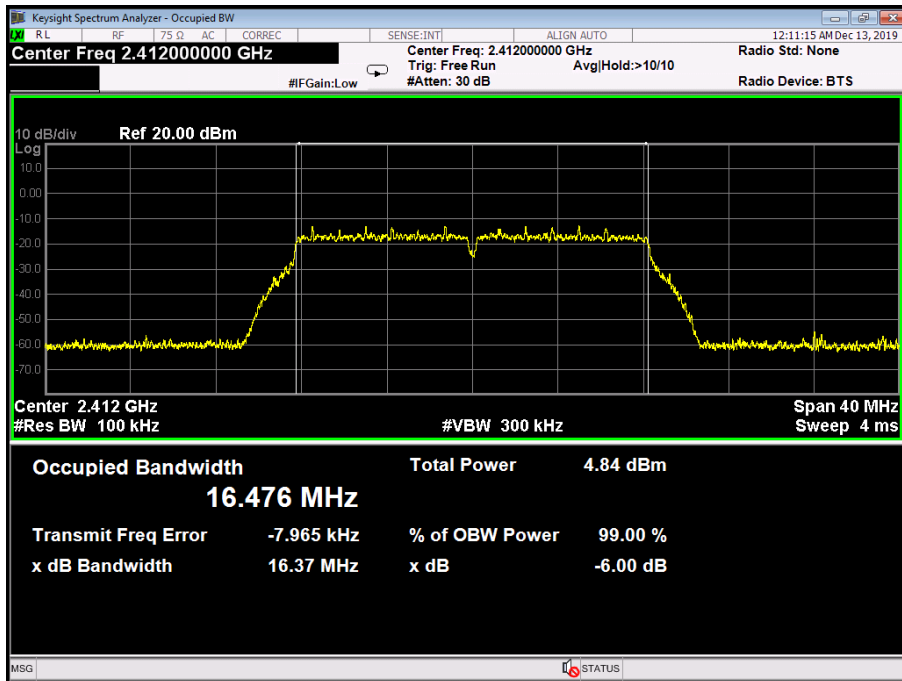
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11G Mode ANT. B		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.37	16.476	>=0.5
2437	16.36	16.478	
2462	16.35	16.481	

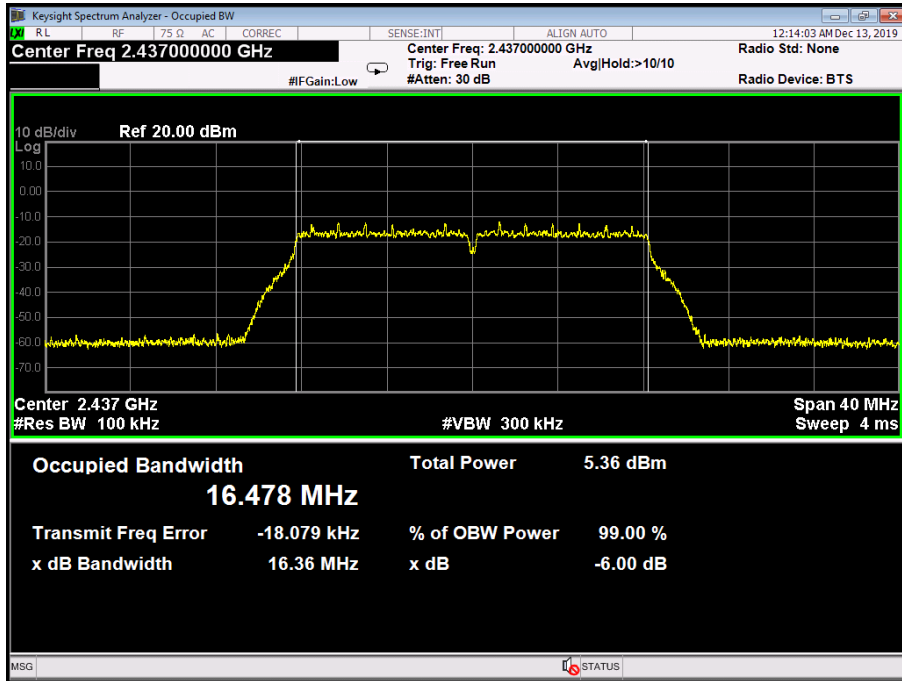
802.11G Mode

2412 MHz



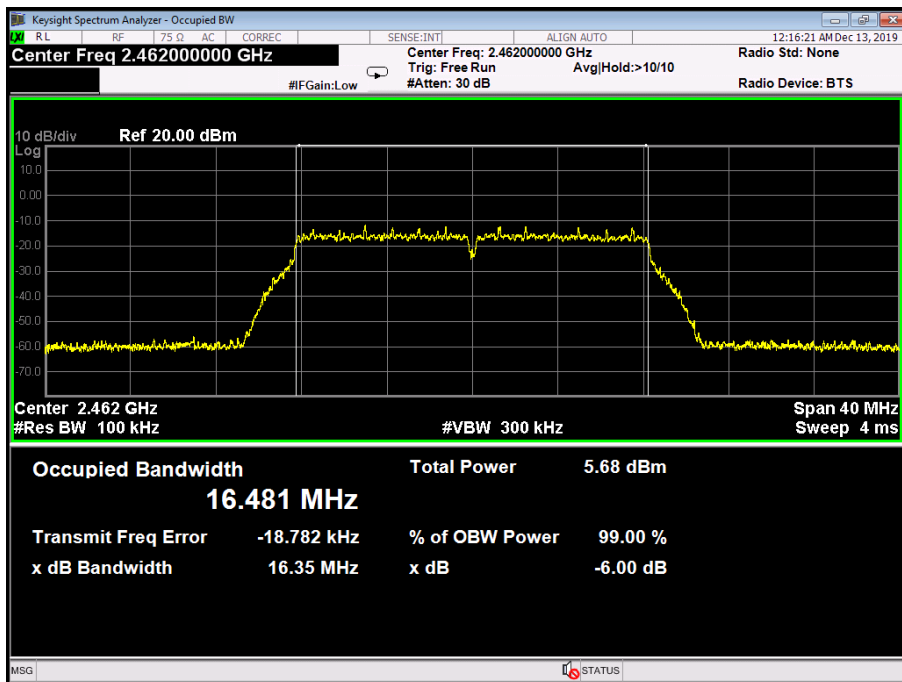
802.11G Mode

2437 MHz



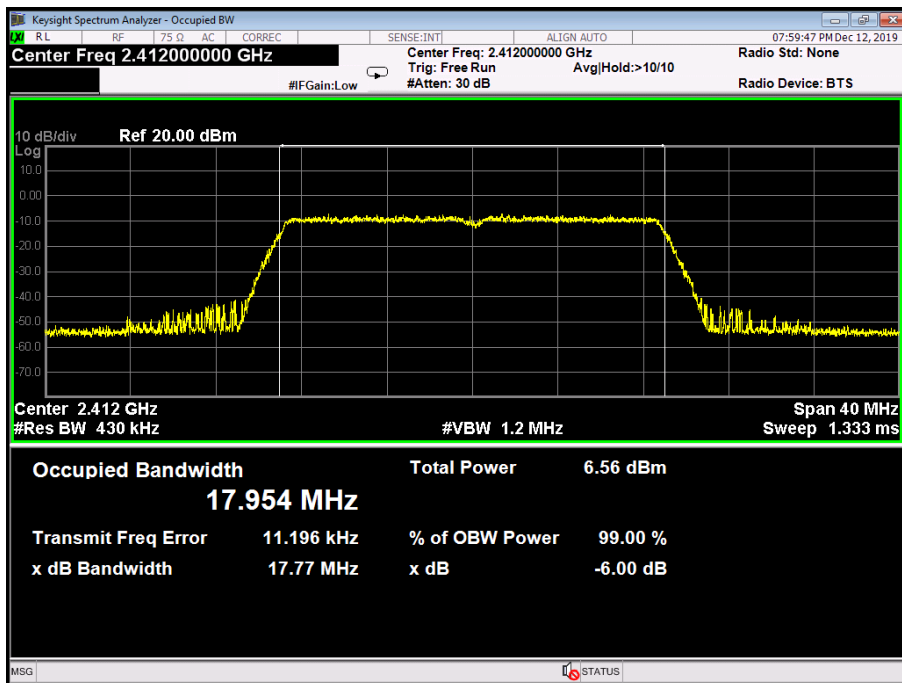
802.11G Mode

2462 MHz



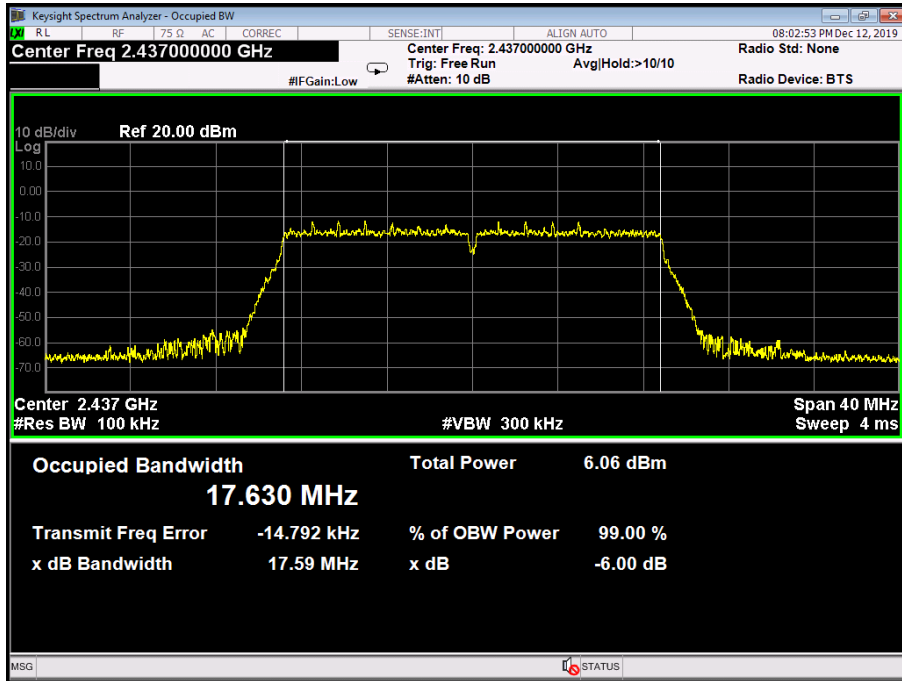
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11N(HT20) Mode ANT. A		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.77	17.954	≥0.5
2437	17.59	17.630	
2462	17.62	17.635	
802.11N(HT20) Mode			

2412 MHz



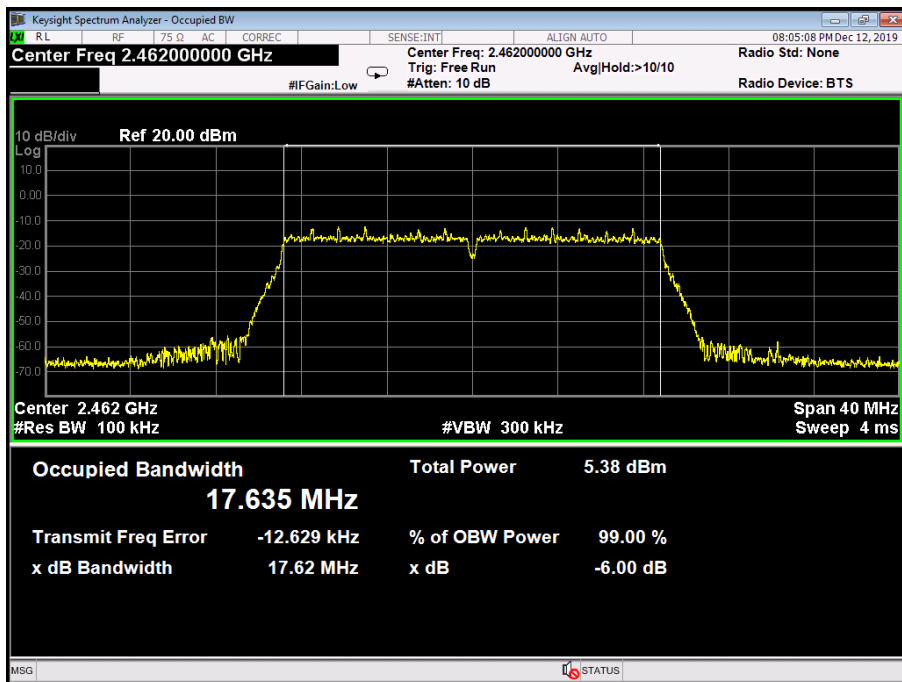
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

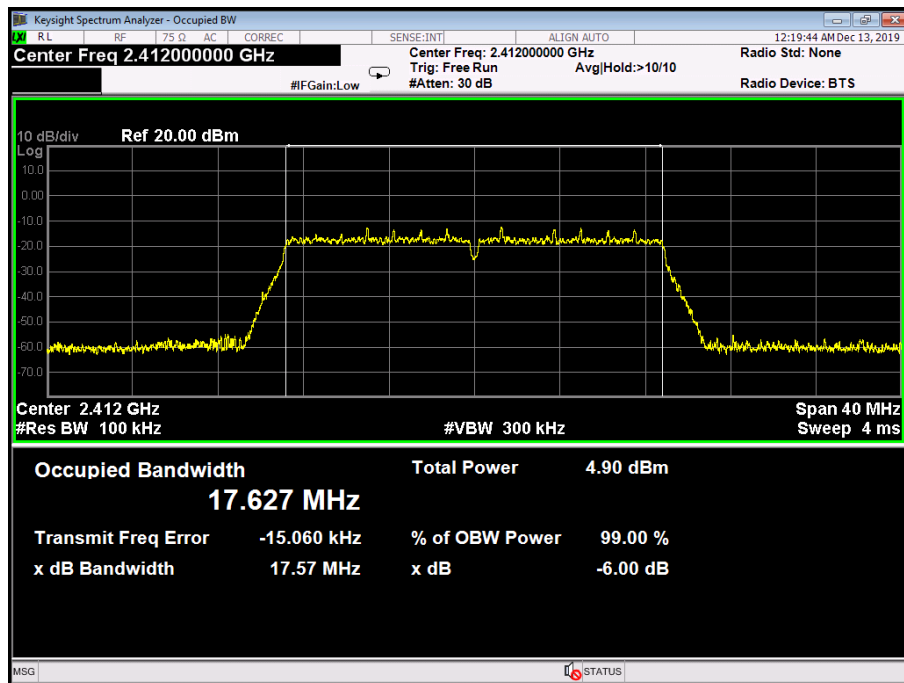
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX 802.11N(HT20) Mode ANT. B		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.57	17.627	>=0.5
2437	17.59	17.645	
2462	17.59	17.642	

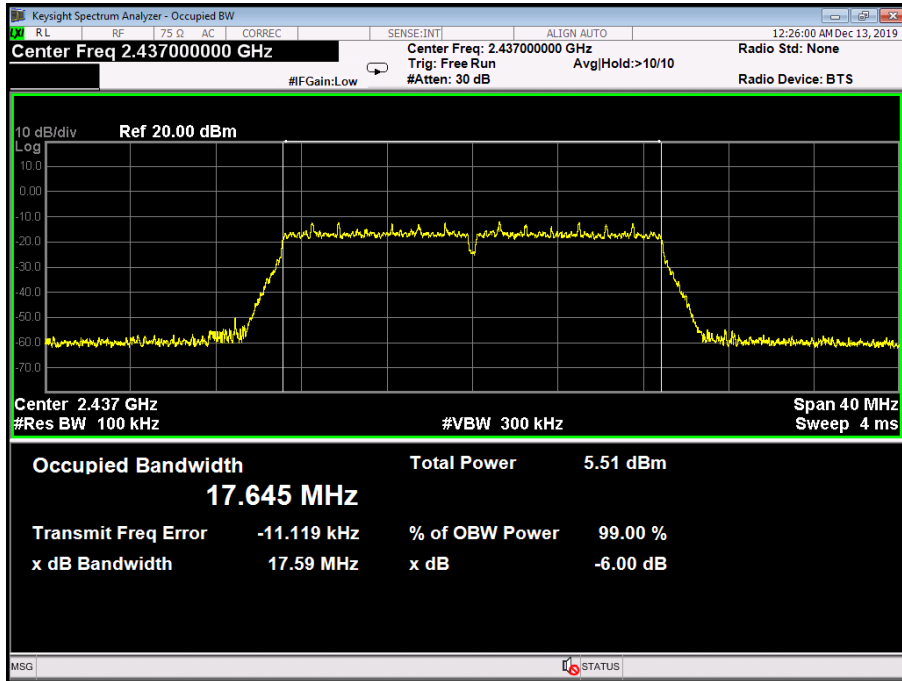
802.11N(HT20) Mode

2412 MHz



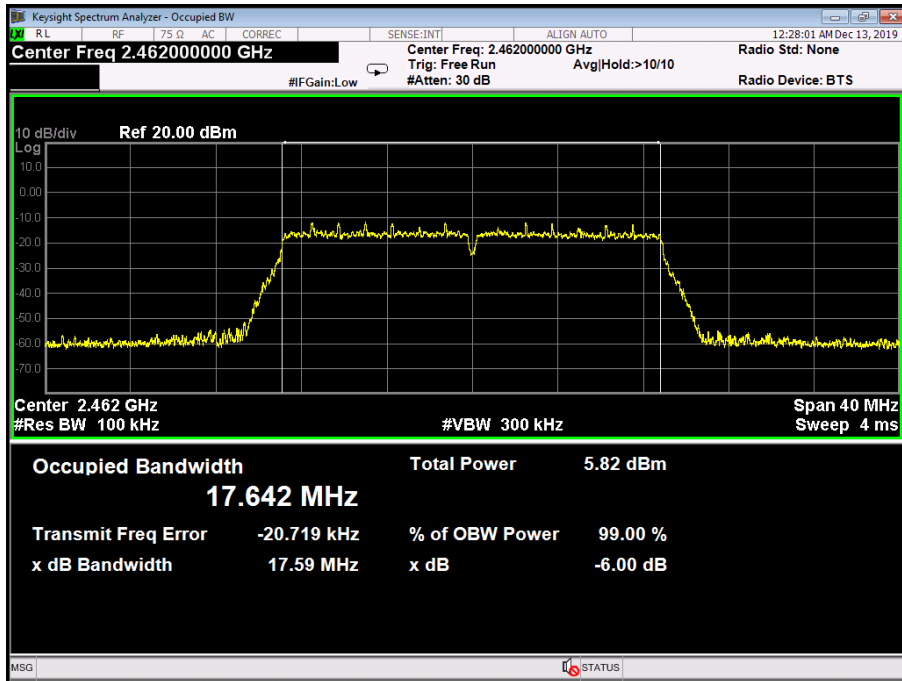
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



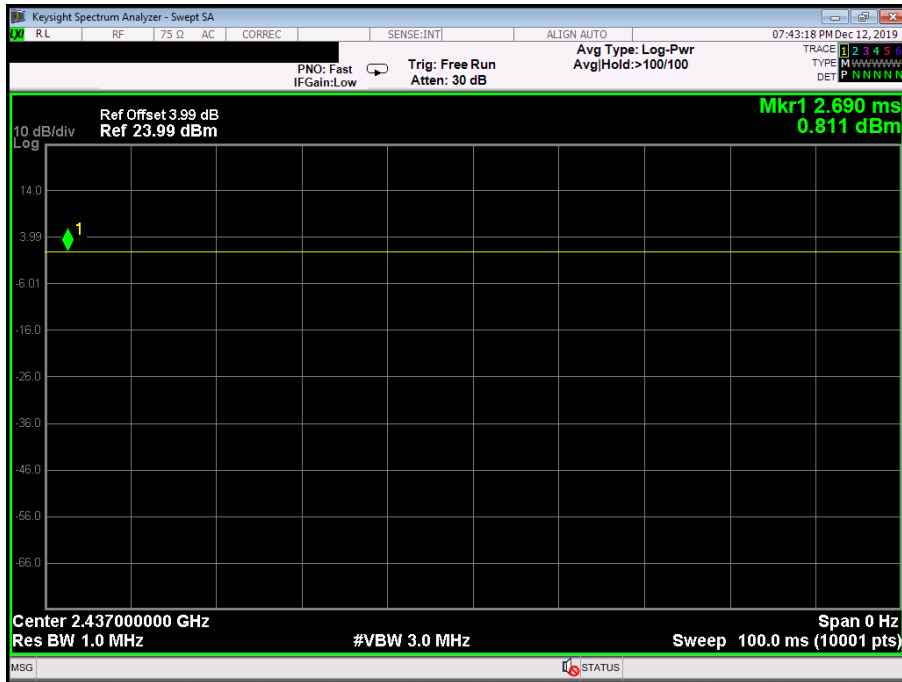
Attachment E-- Peak Output Power Test Data

Conducted Power					
802.11b Power					
Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)
		ANT. A.	ANT. B	Total	
1	2412 MHz	7.16	7.15	---	30
6	2437 MHz	7.10	7.12	---	
11	2462 MHz	7.11	7.14	---	
802.11g Power					
Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)
		ANT. A.	ANT. B	Total	
1	2412 MHz	6.49	6.41	---	30
6	2437 MHz	6.88	6.69	---	
11	2462 MHz	6.41	6.46	---	
802.11n(HT20) Power					
Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)
		ANT. A.	ANT. B	Total	
1	2412 MHz	2.67	2.56	5.63	30
6	2437 MHz	2.28	2.72	5.51	
11	2462 MHz	2.59	2.61	5.62	

Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	

Please see below plots

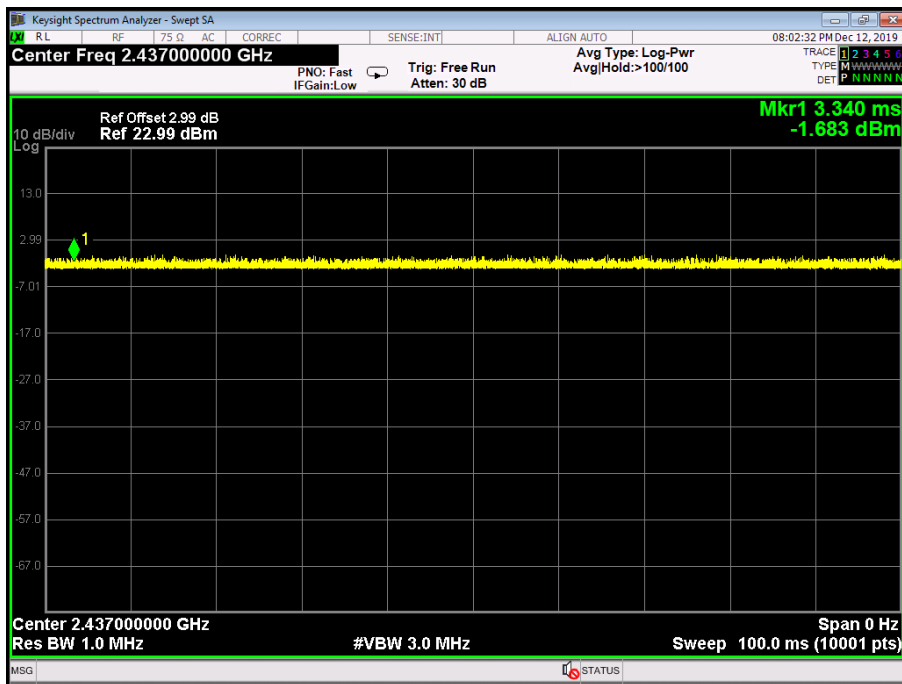
802.11 B Mode 2437 MHz



802.11 G Mode 2437 MHz



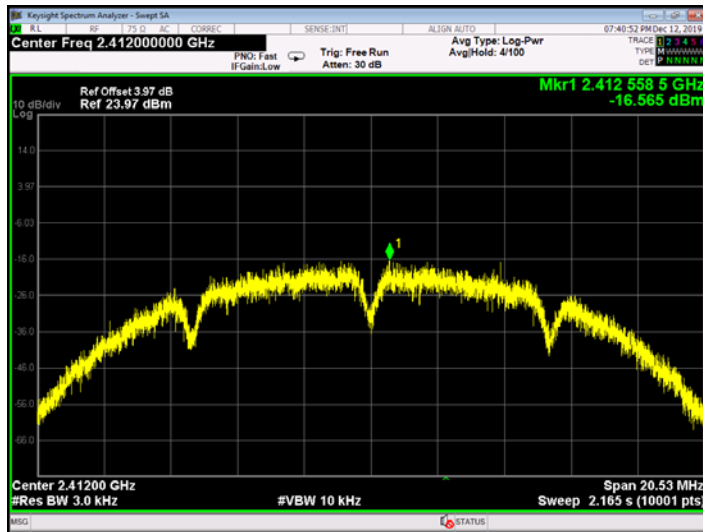
802.11 N(HT20) Mode 2437 MHz



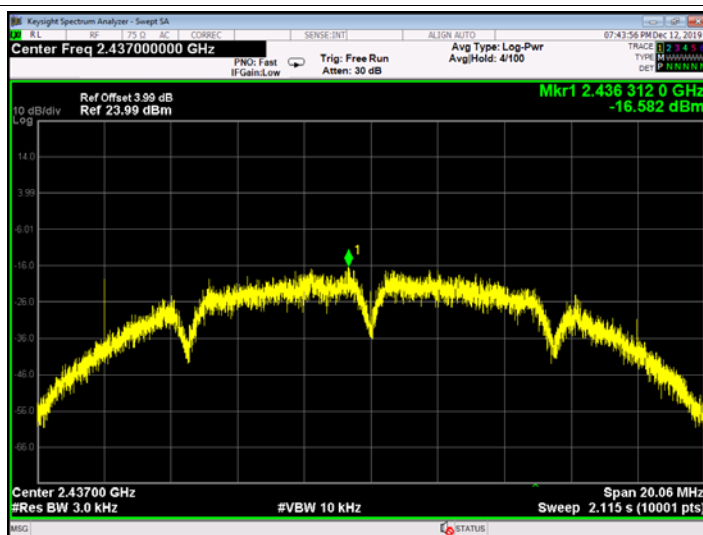
Attachment F-- Power Spectral Density Test Data

802.11b Mode					
Channel	Frequency	Conducted Power (dBm/3KHz)			Max. Limit (dBm/3KHz)
		Ant. A	Ant. B	Total	
1	2412 MHz	-16.565	-14.552	---	8
6	2437 MHz	-16.582	-17.138	---	
11	2462 MHz	-16.073	-16.114	---	
802.11g Mode					
Channel	Frequency	Conducted Power (dBm/3KHz)			Max. Limit (dBm/3KHz)
		Ant. A	Ant. B	Total	
1	2412 MHz	-22.249	-22.598	---	8
6	2437 MHz	-22.156	-21.997	---	
11	2462 MHz	-23.559	-21.670	---	
802.11n(HT20) Mode					
Channel	Frequency	Conducted Power (dBm/3KHz)			Max. Limit (dBm/3KHz)
		Ant. A	Ant. B	Total	
1	2412 MHz	-20.824	-22.702	-18.652	8
6	2437 MHz	-22.020	-23.210	-19.564	
11	2462 MHz	-23.121	-21.897	-19.456	

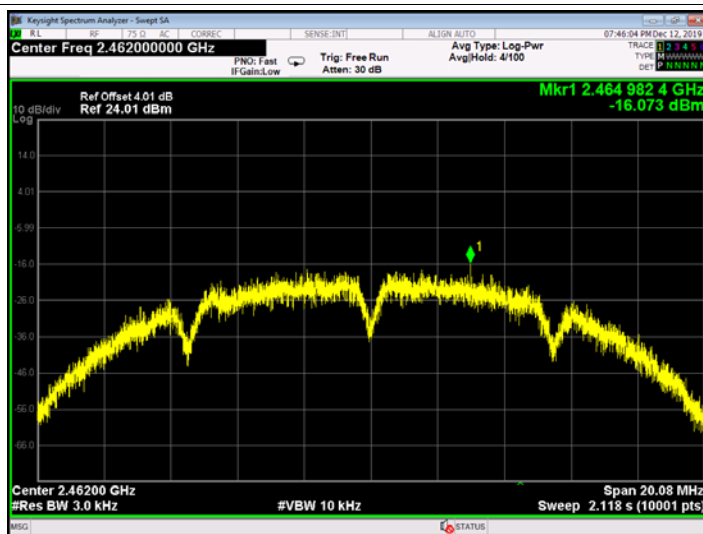
802.11 b 2412 MHz (ANT. A)



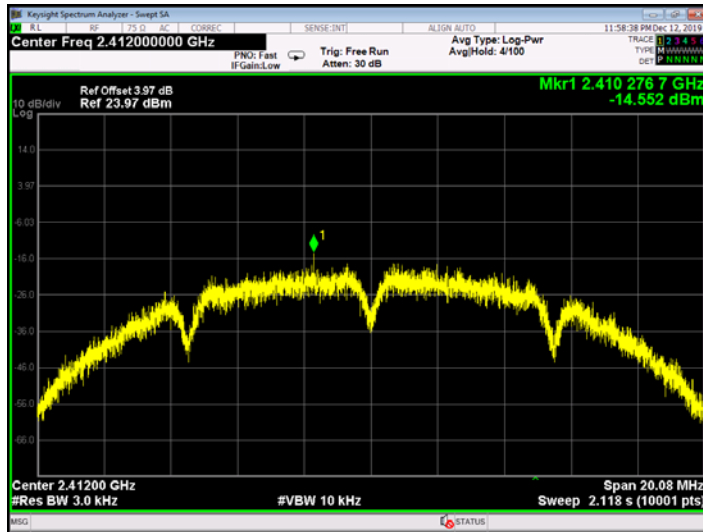
802.11 b 2437 MHz (ANT. A)



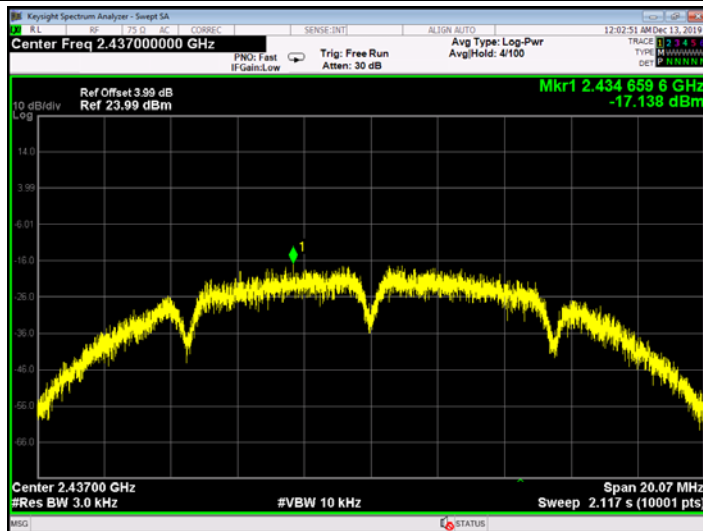
802.11 b 2462MHz (ANT. A)



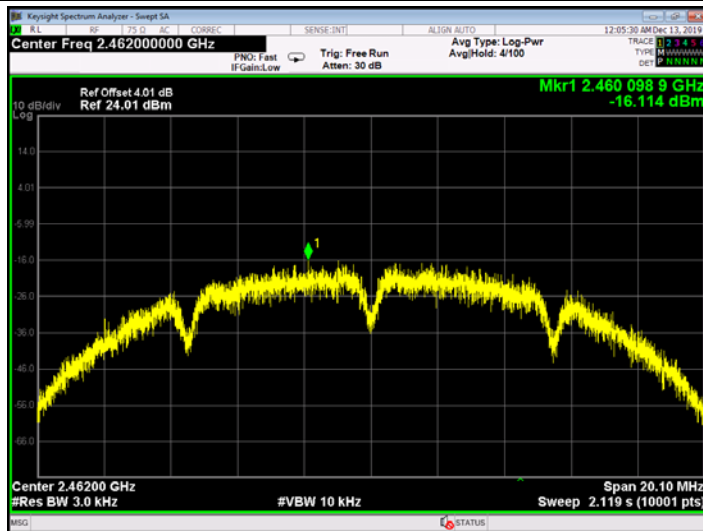
802.11 b 2412 MHz (ANT. B)



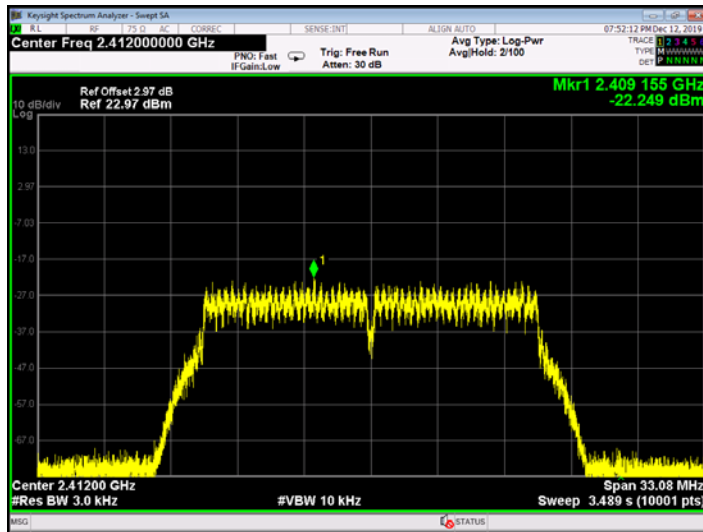
802.11 b 2437 MHz (ANT. B)



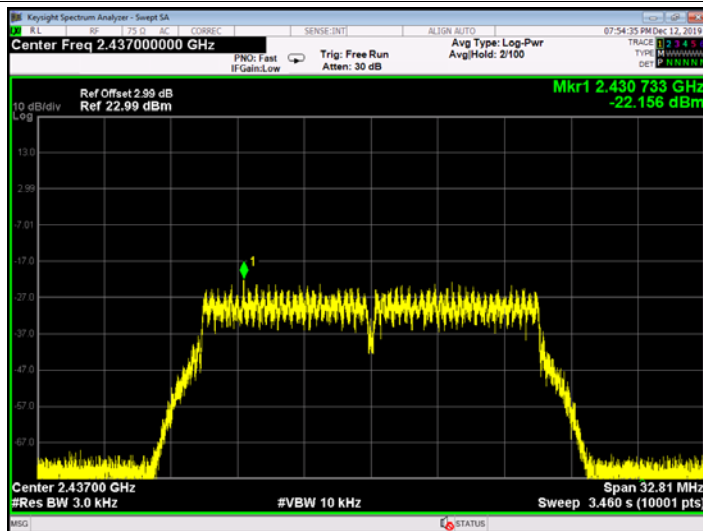
802.11 b 2462MHz (ANT. B)



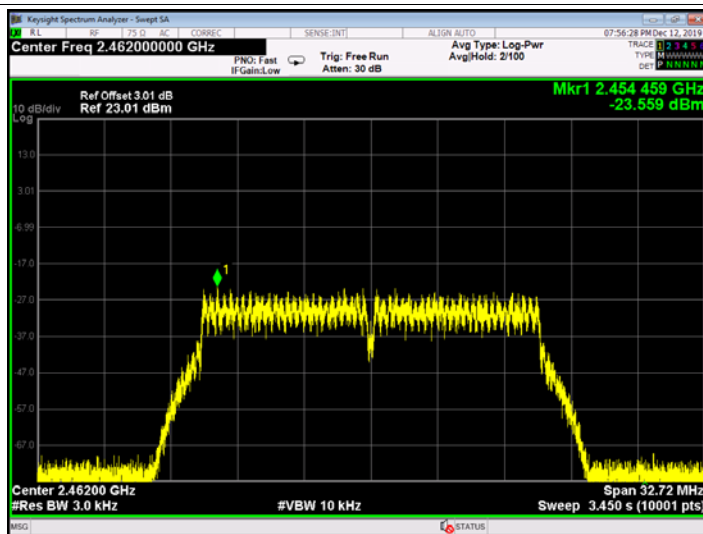
802.11 g 2412 MHz (ANT. A)



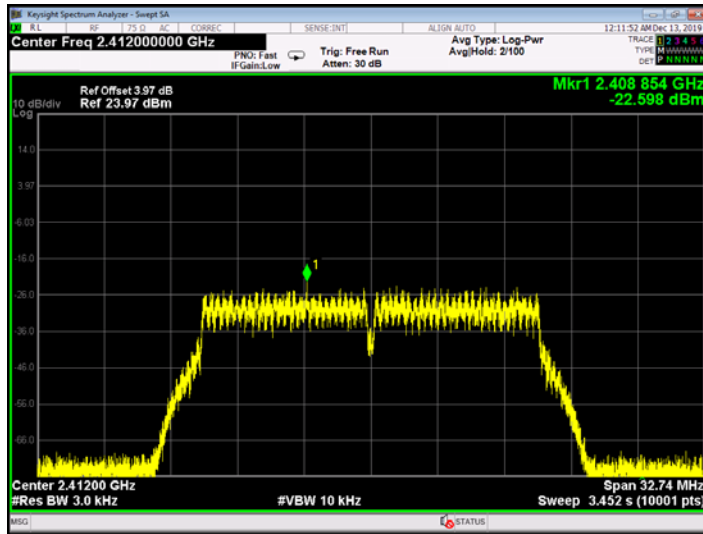
802.11 g 2437 MHz (ANT. A)



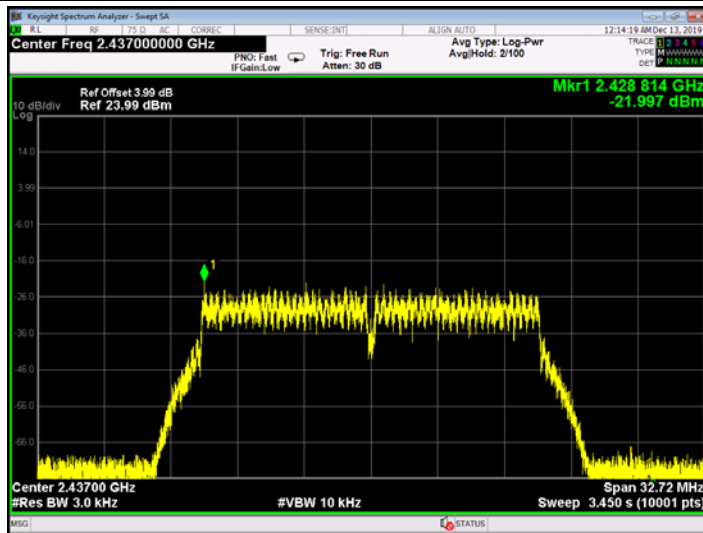
802.11 g 2462MHz (ANT. A)



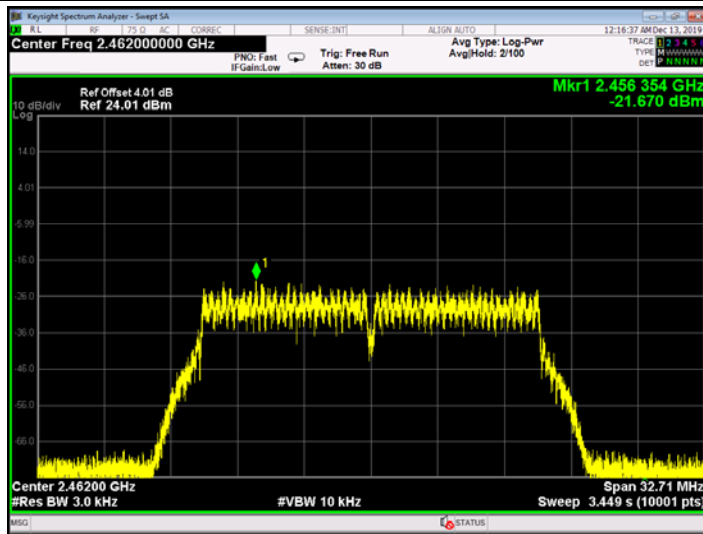
802.11 g 2412 MHz (ANT. B)



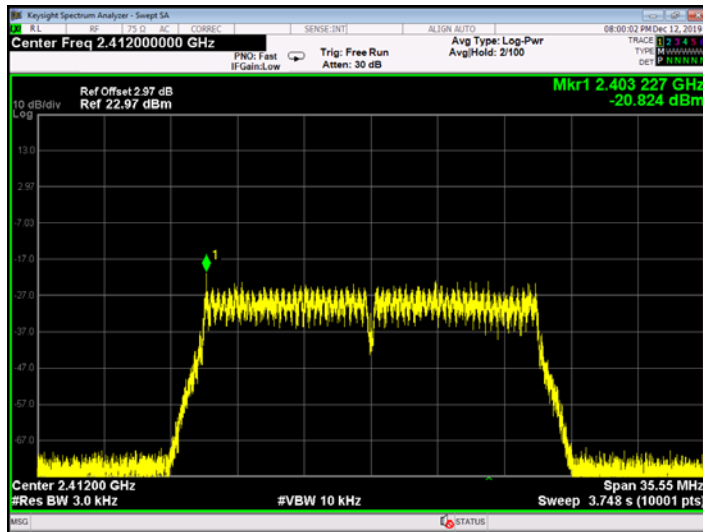
802.11 g 2437 MHz (ANT. B)



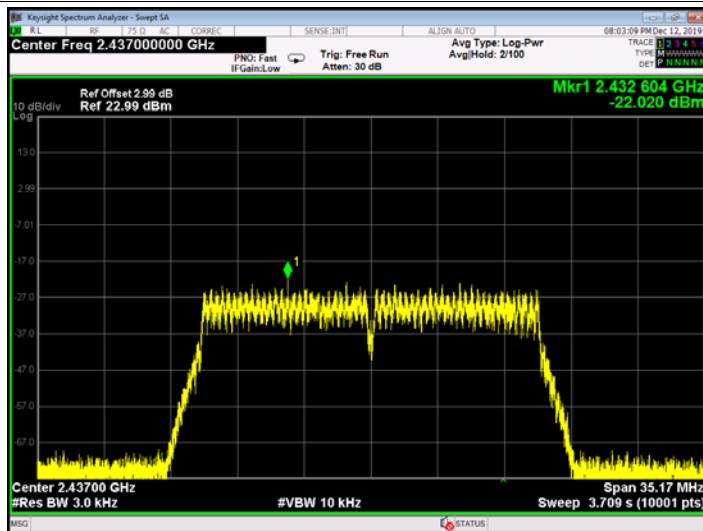
802.11 g 2462 MHz (ANT. B)



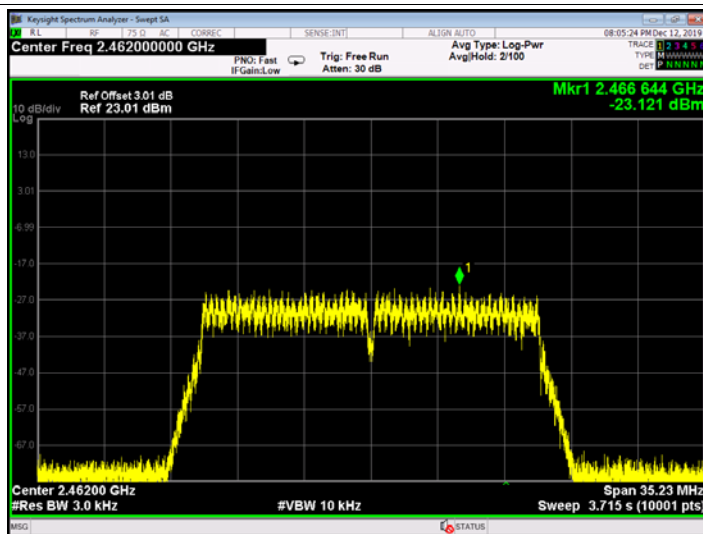
802.11 n(HT20) 2412 MHz (ANT. A)



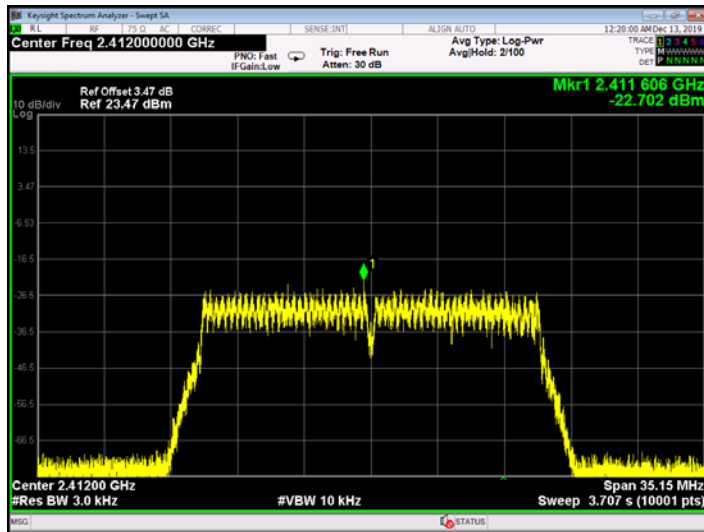
802.11 n(HT20) 2437 MHz (ANT. A)



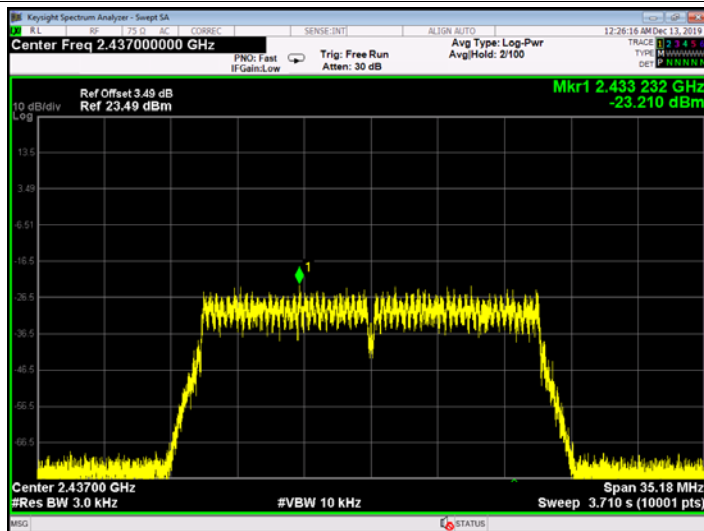
802.11 n(HT20) 2462MHz (ANT. A)



802.11 n(HT20) 2412 MHz (ANT. B)



802.11 n(HT20) 2437 MHz (ANT. A+B)



802.11 n(HT20) 2462MHz (ANT. A+B)



-----END OF REPORT-----