

FCC Radio Test Report

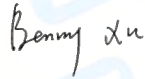
FCC ID: 2AREL-WE1200

Original Grant

Report No. : TB-FCC174511
Applicant : Shenzhenshi DajieKejiYouxianGongsi
Equipment Under Test (EUT)
EUT Name : Wi-Fi Range Extender
Model No. : WE1200
Series Model No. : WE1201, WE1202, WE1203, WE1204, WE1205, WE1206, WE1207, WE1208, WE1209
S/N : WE1200191200001, WE1200191200002
Brand Name : Victure
Receipt Date : 2020-07-29
Test Date : 2020-07-30 to 2020-08-12
Issue Date : 2020-08-13
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 requirements

Test/Witness Engineer :  Jack Deng
Engineer Supervisor :  Ivan Su
Authorized Signatory :  Benny Xu



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-FCC174511	Rev.01	Initial issue of report	2020-08-13

1. General Information about EUT

1.1 Client Information

Applicant	:	Shenzhen DajieKejiYouxianGongsi
Address	:	Longhuaxinqu Minzhijiedao Huangjia shangyeguang chang B711 Shenzhen Guangdong 518000, CN
Manufacturer	:	Shenzhen DajieKejiYouxianGongsi
Address	:	Longhuaxinqu Minzhijiedao Huangjia shangyeguang chang B711 Shenzhen Guangdong 518000, CN

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Wi-Fi Range Extender	
Models No.	:	WE1200, WE1201, WE1202, WE1203, WE1204,WE1205, WE1206, WE1207, WE1208, WE1209	
Model Different	:	All these model product are identical the same, for commercial use with different model number.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 7 channels see note(3)
		RF Output Power:	802.11b:17.86dBm 802.11g: 14.74dBm 802.11n (HT20): 15.64dBm 802.11n (HT40): 13.60dBm
		Antenna Gain:	Please see Note(4)
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)
		Bit Rate of Transmitter:	Using 20MHz bandwidth, data rate up to 173.3 Mbps Using 40MHz bandwidth, data rate up to 400 Mbps
Power Rating	:	Input: AC 100-240V, 50-60Hz	
Software Version	:	1.0.10(450)	
Hardware Version	:	V2.0	

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 User's Manual.

(3) Channel List:

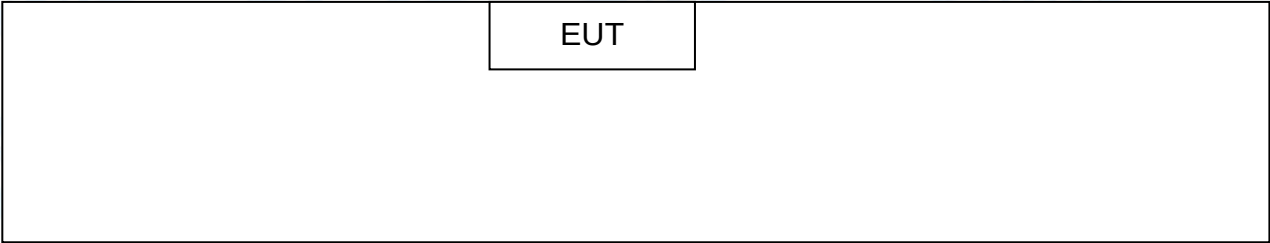
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note: CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)					

(4) Antenna information

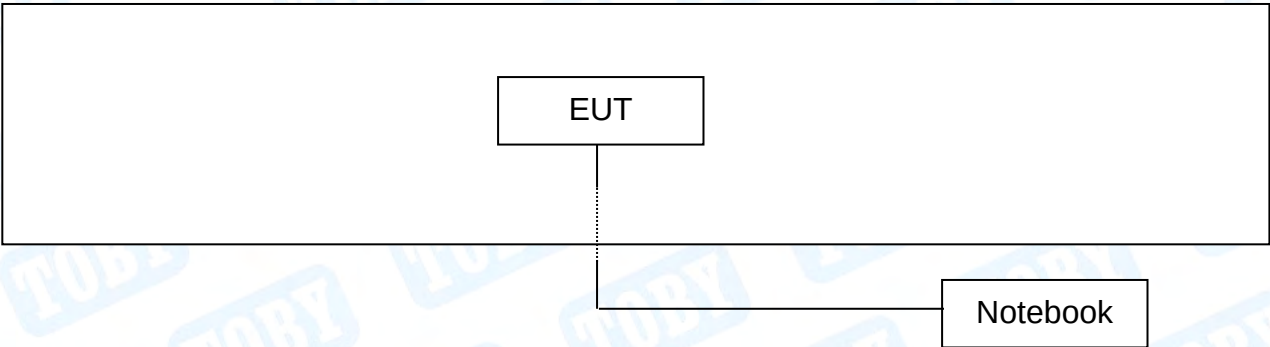
Mode		TX Antenna (s)	Remark	
802.11b		1	The worst case is ANT. 0 TX	
802.11g		2	ANT. 0+ ANT. 1	
802.11n(HT20)		2	ANT. 0+ ANT. 1	
802.11n(HT40)		2	ANT. 0+ ANT. 1	
Antenna	Brand	Model Name	Type	Antenna Gain(dBi)
ANT. 0	N/A	SLEingA200510030	Dipole	3
ANT. 1	N/A	SLEingA200510030	Dipole	3
Note:				
For MIMO mode: Directional Gain=ANT. Gain+10*LOG(N _{ANT}) =6.01dBi				
2.4G working with 802.11g/n(HT20/HT40) has MIMO mode.				

1.3 Block Diagram Showing the Configuration of System Tested

Conducted Test



Radiated Test



1.4 Description of Support Units

Name	Model	S/N	Manufacturer	Used “√”
Notebook	161301-CN	15987/00203076	Xiaomi	√

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 and RF Conducted 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)The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. (2) For the Conducted Emission and Radiated test used the EUT-1(S/N number: WE1200191200001). For the RF Conduction test used the EUT-2(S/N number: WE1200191200002).	

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 Mobile device; 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: QATool_Dbg.exe				
Test Mode: Continuously transmitting				
Mode	Data Rate	Channel	Parameters	
802.11b	CCK/ 1Mbps	01	1D	
	CCK/ 1Mbps	06	1A	
	CCK/ 1Mbps	11	1A	
			Parameters	
			ANT. 0	ANT. 1
802.11g	OFDM/ 6Mbps	01	16	16
	OFDM/ 6Mbps	06	17	17
	OFDM/ 6Mbps	11	19	19
802.11n(HT20)	MCS 0	01	16	16
	MCS 0	06	17	17
	MCS 0	11	19	19
802.11n(HT40)	MCS 0	03	0D	0D
	MCS 0	06	0E	0E
	MCS 0	09	10	10
Note: The report only showed 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 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 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)

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

2. Test Summary

FCC Part 15 Subpart C(15.247)			
Standard Section FCC	Test Item	Judgment	Remark
15.203	Antenna Requirement	PASS	N/A
15.207	Conducted Emission	PASS	N/A
15.205	Restricted Bands	PASS	N/A
15.247(a)(2)	6dB Bandwidth	PASS	N/A
15.247(b)	Peak Output Power	PASS	N/A
15.247(e)	Power Spectral Density	PASS	N/A
15.247(d)	Band Edge	PASS	N/A
15.247(d)&15.209	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
RF Conducted Measurement	MTS-8310	MWRfTest	V2.0.0.0

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. 06, 2020	Jul. 05, 2021
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 06, 2020	Jul. 05, 2021
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 06, 2020	Jul. 05, 2021
LISN	Rohde & Schwarz	ENV216	101131	Jul. 06, 2020	Jul. 05, 2021
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.01, 2020	Feb. 28, 2021
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 07, 2020	Jul. 06, 2021
Pre-amplifier	Sonoma	310N	185903	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	HP	8449B	3008A00849	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	Jul. 06, 2020	Jul. 05, 2021
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.07, 2020	Mar. 06, 2021
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. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 06, 2020	Jul. 05, 2021
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	17I00015SNO26	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	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

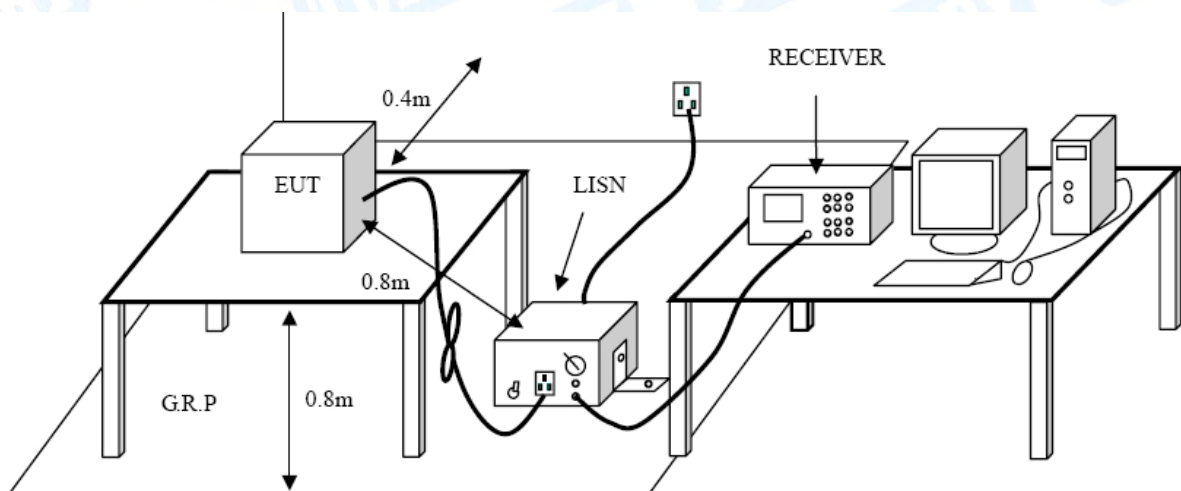
Conducted Emission Test Limit

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

- (1) 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.
- (2) 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.
- (3) 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.
- (4) LISN at least 80 cm from nearest part of EUT chassis.
- (5) The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 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

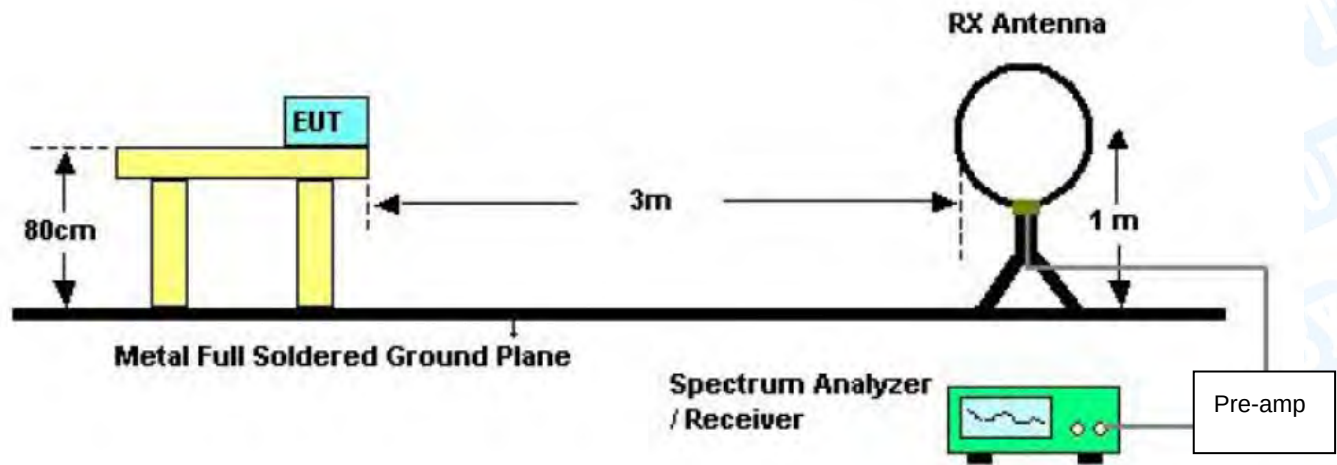
Radiated Emission Limit (Above 1000MHz)

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

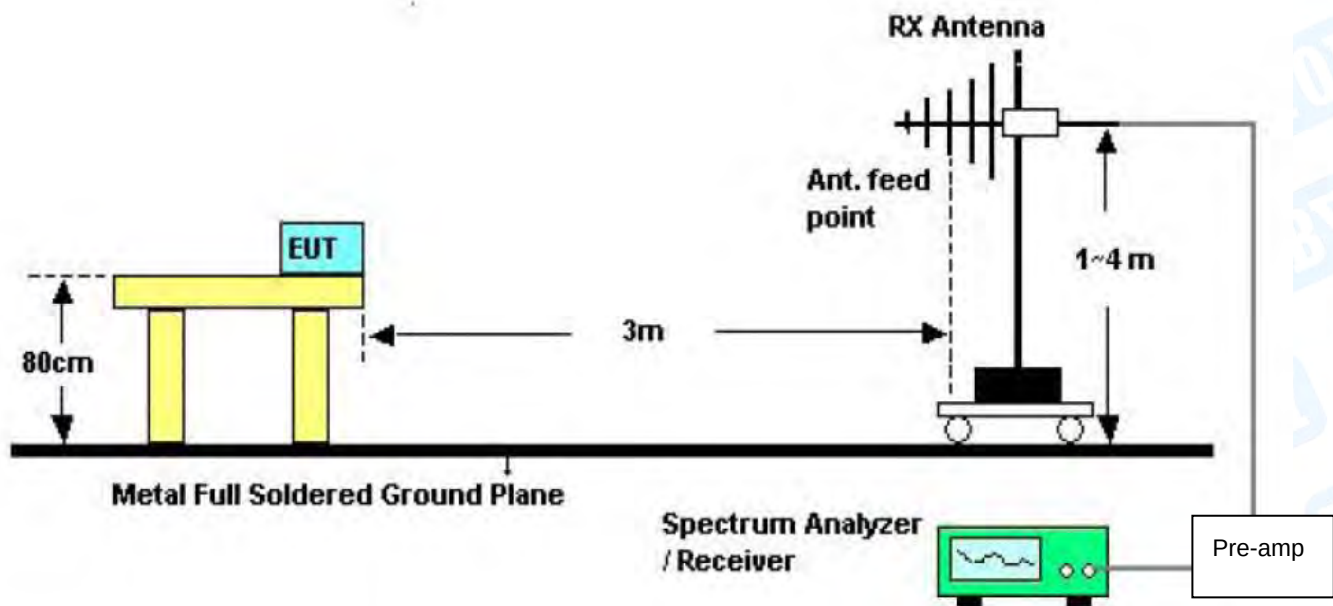
Note:

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

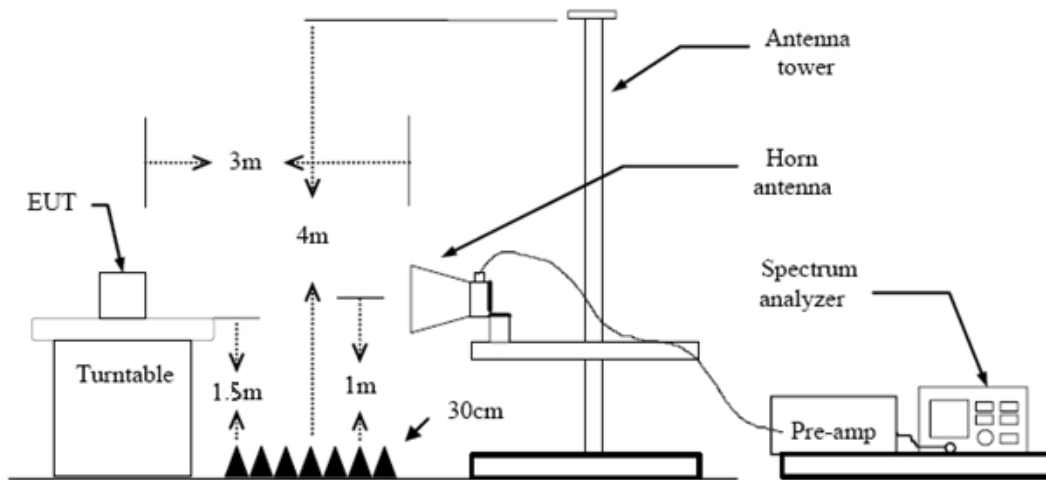
6.2 Test Setup



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 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

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

6.6 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

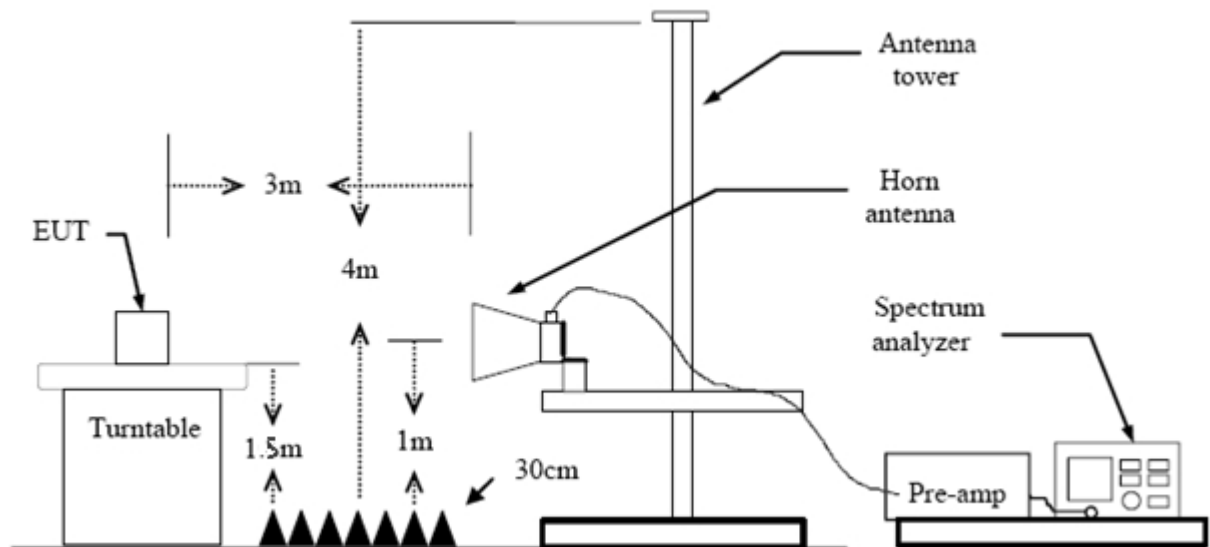
7.1.1 Test Standard

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 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

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

7.6 Test Data

Please refer to the Attachment C.

8. Bandwidth Test

8.1 Test Standard and Limit

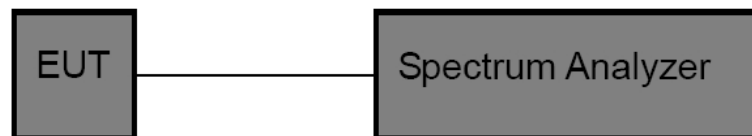
8.1.1 Test Standard

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 Deviation From Test Standard

No deviation

8.5 EUT Operating Condition

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

8.6 Test Data

Please refer to the Attachment D.

9. Peak Output Power Test

9.1 Test Standard and Limit

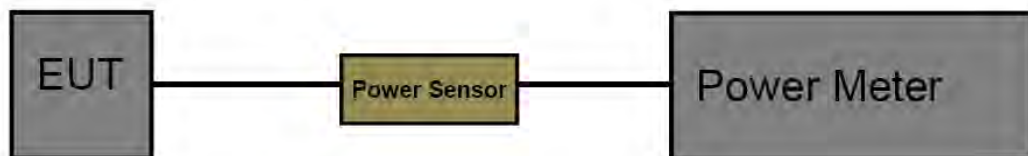
9.1.1 Test Standard

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 Deviation From Test Standard

No deviation

9.5 EUT Operating Condition

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

9.6 Test Data

Please refer to the Attachment E.

10. Power Spectral Density Test

10.1 Test Standard and Limit

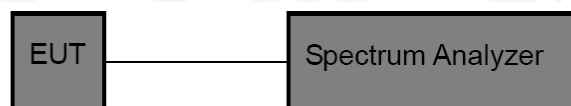
10.1.1 Test Standard

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 Deviation From Test Standard

No deviation

10.5 EUT Operating Condition

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

10.6 Test Data

Please refer to the Attachment F.

11. Antenna Requirement

11.1 Standard Requirement

11.1.1 Standard

FCC Part 15.203

11.1.2 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 Deviation From Test Standard

No deviation

11.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 3dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

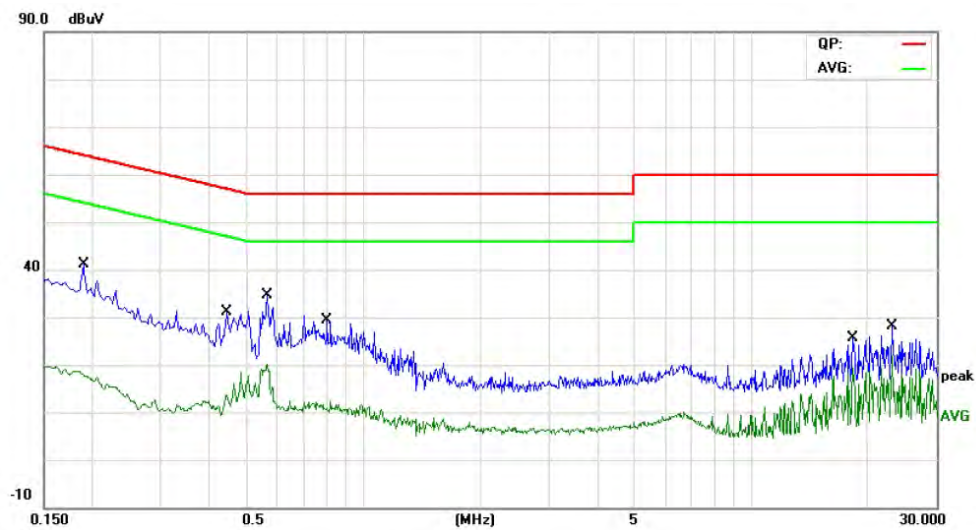
The EUT antenna is a Dipole Antenna. It complies with the standard requirement.

Antenna Type
☐ Permanent attached antenna
☒ Unique connector antenna
☐ Professional installation antenna

Attachment A-- Conducted Emission Test Data

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

Temperature:	24.0°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Mode 1		
Remark:	Only worst case is reported		



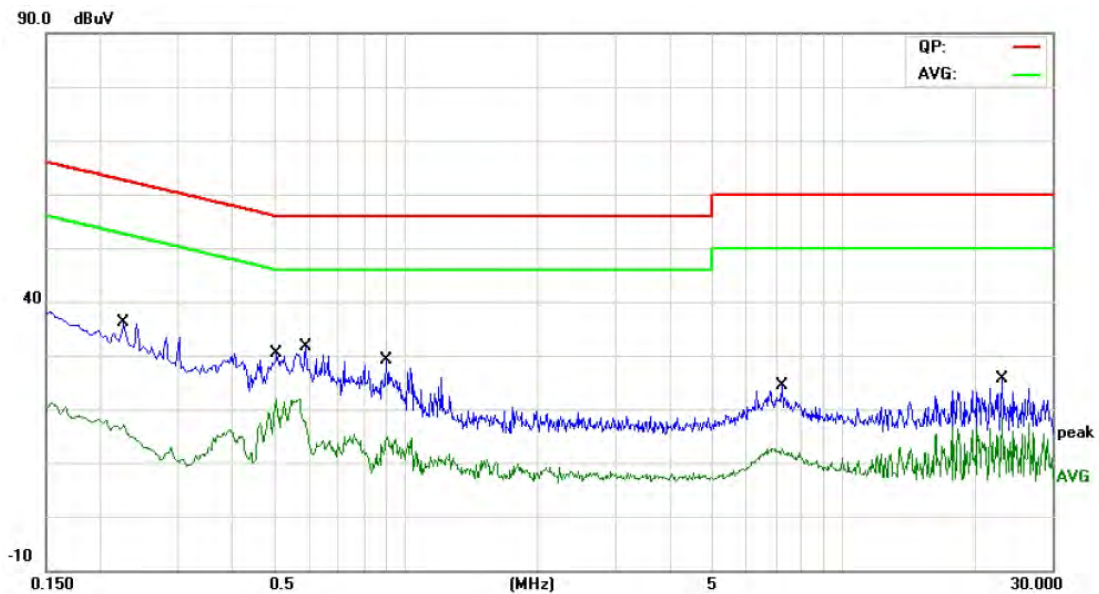
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1900	22.14	9.70	31.84	64.03	-32.19	QP
2		0.1900	6.85	9.70	16.55	54.03	-37.48	AVG
3		0.4460	12.75	9.70	22.45	56.95	-34.50	QP
4		0.4460	0.45	9.70	10.15	46.95	-36.80	AVG
5		0.5660	18.94	9.70	28.64	56.00	-27.36	QP
6	*	0.5660	9.36	9.70	19.06	46.00	-26.94	AVG
7		0.8059	11.73	9.74	21.47	56.00	-34.53	QP
8		0.8059	0.10	9.74	9.84	46.00	-36.16	AVG
9		18.2420	13.59	10.00	23.59	60.00	-36.41	QP
10		18.2420	9.10	10.00	19.10	50.00	-30.90	AVG
11		23.1299	15.13	10.07	25.20	60.00	-34.80	QP
12		23.1299	10.94	10.07	21.01	50.00	-28.99	AVG

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Temperature:	24.0°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Mode 1		
Remark:	Only worst case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2260	18.95	9.80	28.75	62.59	-33.84	QP
2		0.2260	5.78	9.80	15.58	52.59	-37.01	AVG
3		0.5060	16.69	9.80	26.49	56.00	-29.51	QP
4	*	0.5060	10.67	9.80	20.47	46.00	-25.53	AVG
5		0.5899	14.47	9.80	24.27	56.00	-31.73	QP
6		0.5899	5.72	9.80	15.52	46.00	-30.48	AVG
7		0.9020	11.86	9.80	21.66	56.00	-34.34	QP
8		0.9020	3.99	9.80	13.79	46.00	-32.21	AVG
9		7.2460	6.29	9.90	16.19	60.00	-43.81	QP
10		7.2460	1.50	9.90	11.40	50.00	-38.60	AVG
11		23.1299	13.00	10.07	23.07	60.00	-36.93	QP
12		23.1299	8.60	10.07	18.67	50.00	-31.33	AVG

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Attachment B-- Radiated Emission Test Data

9KHz~150KHz

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:	22.8℃	Relative Humidity:	41.7%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worst 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		49.0145	42.97	-22.74	20.23	40.00	-19.77	QP
2	*	60.0691	45.22	-24.20	21.02	40.00	-18.98	QP
3		69.1141	41.76	-23.46	18.30	40.00	-21.70	QP
4		121.9755	39.43	-22.19	17.24	43.50	-26.26	QP
5		291.0360	41.28	-16.45	24.83	46.00	-21.17	QP
6		327.8873	40.08	-15.37	24.71	46.00	-21.29	QP

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

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

Temperature:	22.8°C	Relative Humidity:	41.7%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHZ		
Remark:	Only worst case is reported.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		39.4371	48.62	-18.73	29.89	40.00	-10.11	QP
2	*	50.4089	54.08	-23.10	30.98	40.00	-9.02	QP
3		58.4074	52.79	-24.03	28.76	40.00	-11.24	QP
4		68.1514	53.59	-23.55	30.04	40.00	-9.96	QP
5		92.1388	52.26	-21.88	30.38	43.50	-13.12	QP
6		109.0286	51.02	-22.27	28.75	43.50	-14.75	QP

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

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

Above 1GHz

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. 0.		

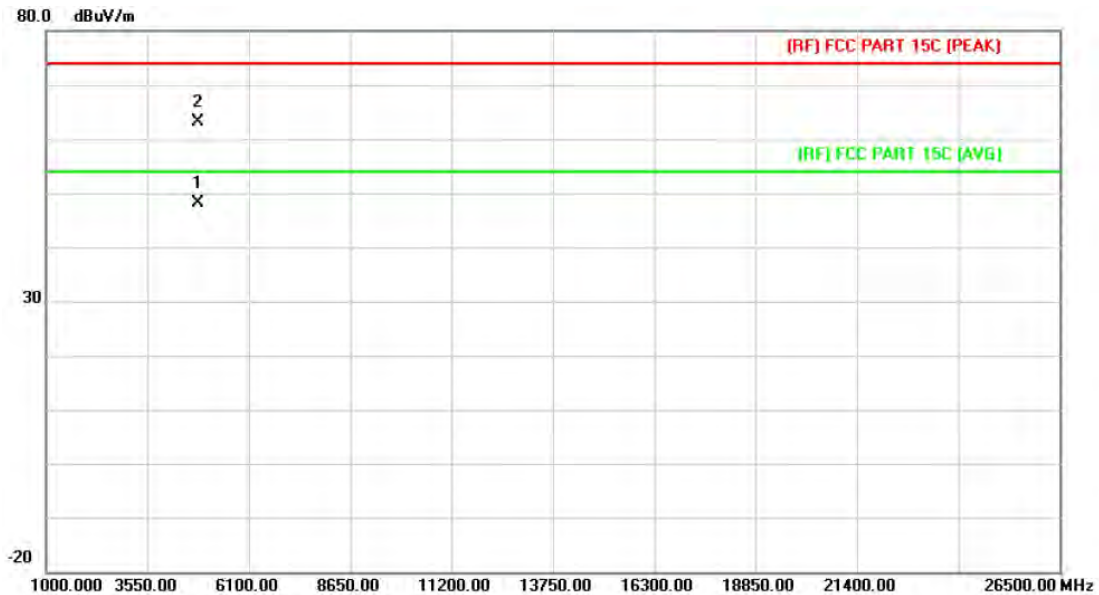


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.712	50.18	13.16	63.34	74.00	-10.66	peak
2	*	4823.988	35.63	13.16	48.79	54.00	-5.21	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. 0.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.006	34.96	13.16	48.12	54.00	-5.88	AVG
2		4824.090	49.95	13.16	63.11	74.00	-10.89	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. 0.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.142	48.40	13.52	61.92	74.00	-12.08	peak
2	*	4875.104	33.77	13.54	47.31	54.00	-6.69	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. 0.		

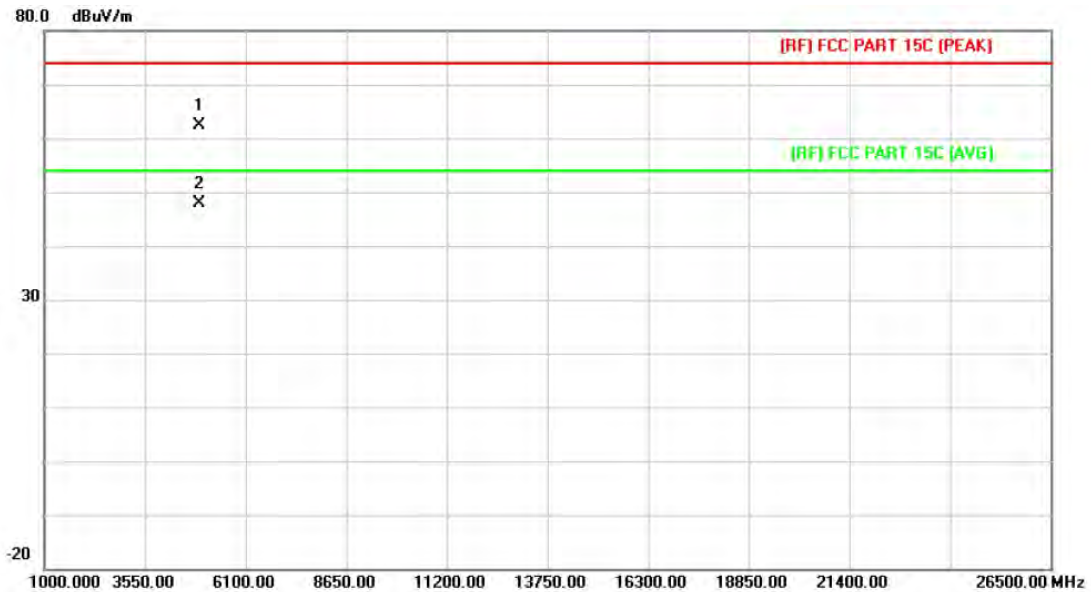


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.288	48.80	13.53	62.33	74.00	-11.67	peak
2	*	4875.080	33.71	13.54	47.25	54.00	-6.75	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. 0.		

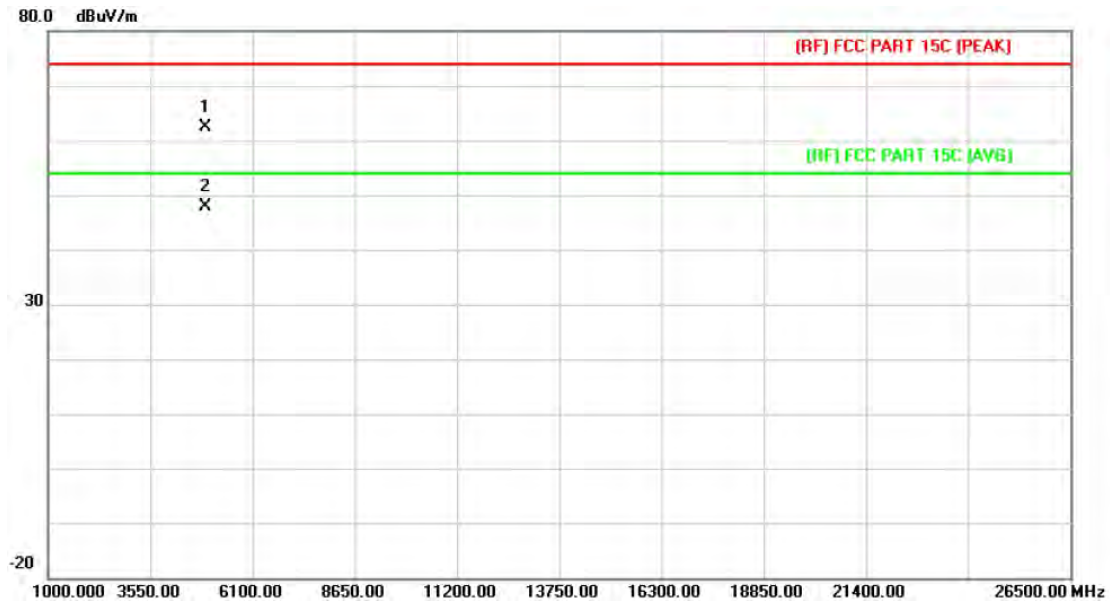


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4922.782	48.58	13.89	62.47	74.00	-11.53	peak
2	*	4923.610	33.91	13.89	47.80	54.00	-6.20	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz ANT. 0		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. 0.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4922.554	48.42	13.89	62.31	74.00	-11.69	peak
2	*	4925.002	33.87	13.90	47.77	54.00	-6.23	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz ANT. 0+ANT. 1		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

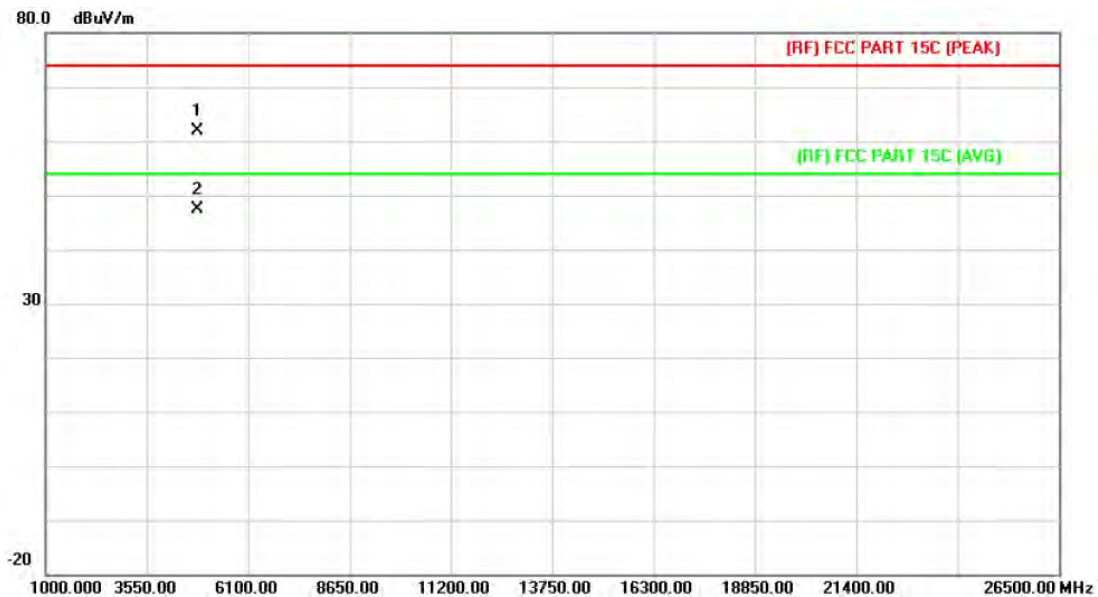


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4824.084	48.80	13.16	61.96	74.00	-12.04	peak
2	*	4824.084	34.44	13.16	47.60	54.00	-6.40	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz ANT. 0+ANT. 1		
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		4823.598	48.83	13.16	61.99	74.00	-12.01	peak
2	*	4823.598	34.11	13.16	47.27	54.00	-6.73	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz ANT. 0+ANT. 1		
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		4874.744	48.36	13.53	61.89	74.00	-12.11	peak
2	*	4875.416	33.79	13.54	47.33	54.00	-6.67	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz ANT. 0+ANT. 1		
Remark:	No report for the emission which more than 15dB below the prescribed limit. Only show the worst case ANT. A.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.630	48.47	13.53	62.00	74.00	-12.00	peak
2	*	4875.122	33.77	13.54	47.31	54.00	-6.69	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz ANT. 0+ANT. 1		
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		4923.700	48.10	13.89	61.99	74.00	-12.01	peak
2	*	4923.700	33.78	13.89	47.67	54.00	-6.33	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz ANT. 0+ANT. 1		
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		4923.082	48.30	13.89	62.19	74.00	-11.81	peak
2	*	4923.082	33.88	13.89	47.77	54.00	-6.23	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT20) Mode 2412MHz ANT. 0+ANT. 1		
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	*	4824.186	33.64	13.16	46.80	54.00	-7.20	AVG
2		4824.228	48.67	13.16	61.83	74.00	-12.17	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT20) Mode 2412MHz ANT. 0+ANT. 1		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

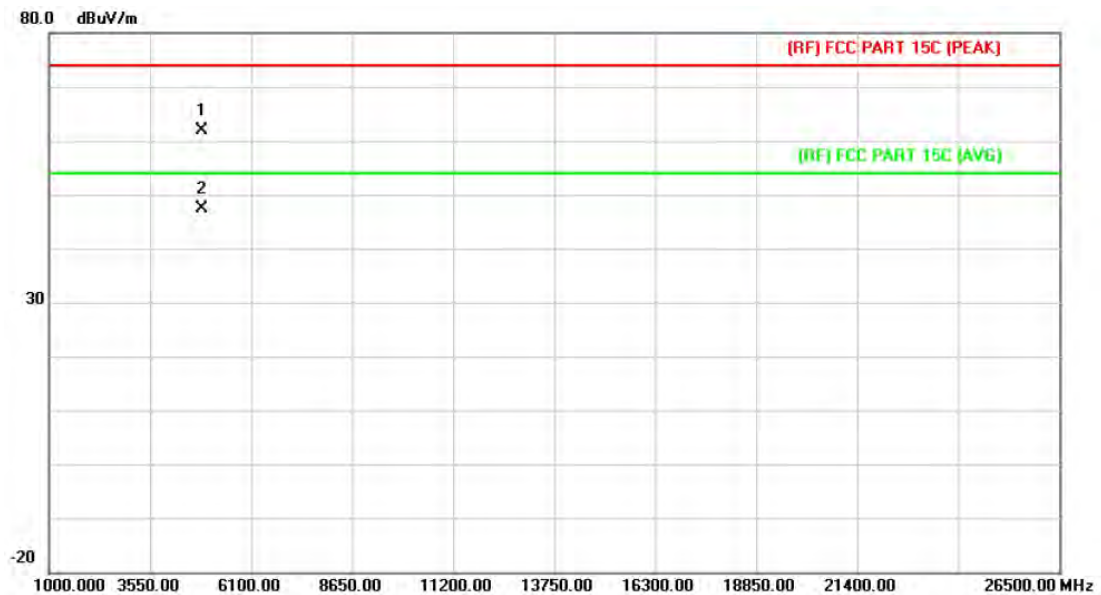


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.988	34.65	13.16	47.81	54.00	-6.19	AVG
2		4824.750	48.76	13.16	61.92	74.00	-12.08	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT20) Mode 2437MHz ANT. 0+ANT. 1		
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		4872.704	48.24	13.52	61.76	74.00	-12.24	peak
2	*	4875.260	33.83	13.54	47.37	54.00	-6.63	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT20) Mode 2437MHz ANT. 0+ANT. 1		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

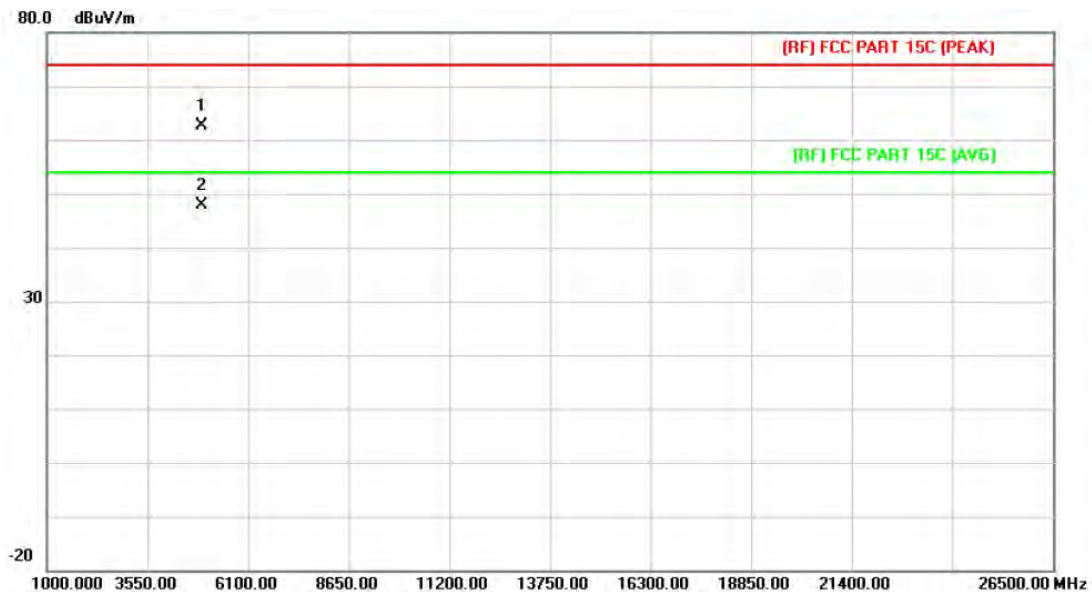


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		4874.504	47.89	13.53	61.42	74.00	-12.58 peak
2	*	4875.422	33.79	13.54	47.33	54.00	-6.67 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT20) Mode 2462MHz ANT. 0+ANT. 1		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4924.546	48.68	13.89	62.57	74.00	-11.43	peak
2	*	4924.864	33.92	13.90	47.82	54.00	-6.18	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT20) Mode 2462MHz ANT. 0+ANT. 1		
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	*	4922.500	33.94	13.89	47.83	54.00	-6.17	AVG
2		4923.214	48.94	13.89	62.83	74.00	-11.17	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT40) Mode 2422MHz ANT. 0+ANT. 1		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

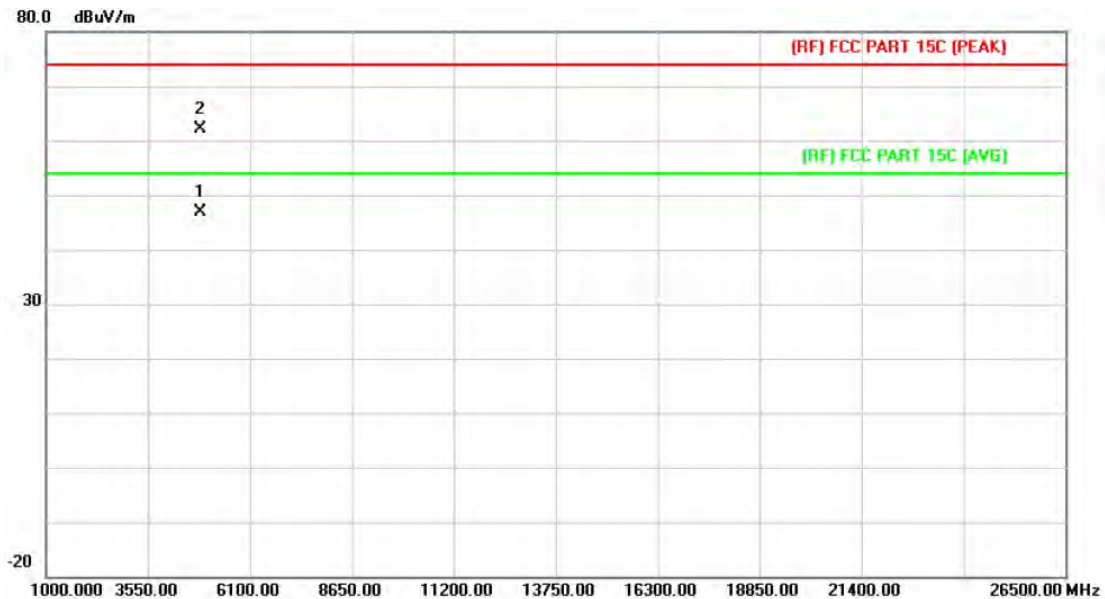


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.976	46.77	13.31	60.08	74.00	-13.92	peak
2	*	4843.976	33.51	13.31	46.82	54.00	-7.18	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT40) Mode 2422MHz ANT. 0+ANT. 1		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

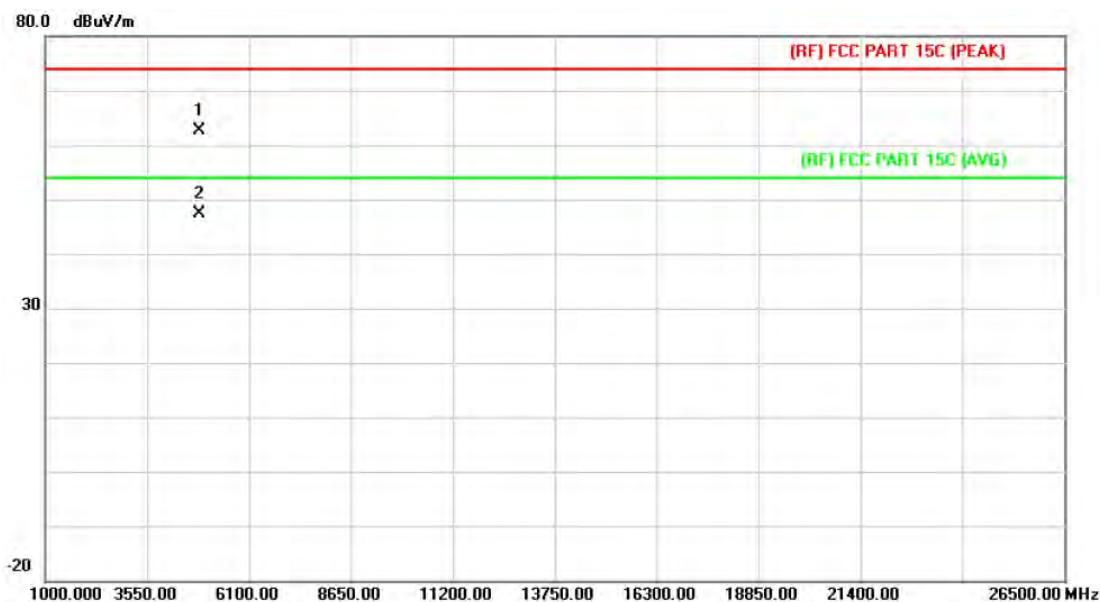


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.478	33.52	13.30	46.82	54.00	-7.18	AVG
2		4844.522	48.79	13.31	62.10	74.00	-11.90	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT40) Mode 2437MHz ANT. 0+ANT. 1		
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		4874.330	49.07	13.53	62.60	74.00	-11.40	peak
2	*	4875.482	33.74	13.54	47.28	54.00	-6.72	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT40) Mode 2437MHz ANT. 0+ANT. 1		
Remark:	No report for the emission which more than 15dB below the prescribed limit.		

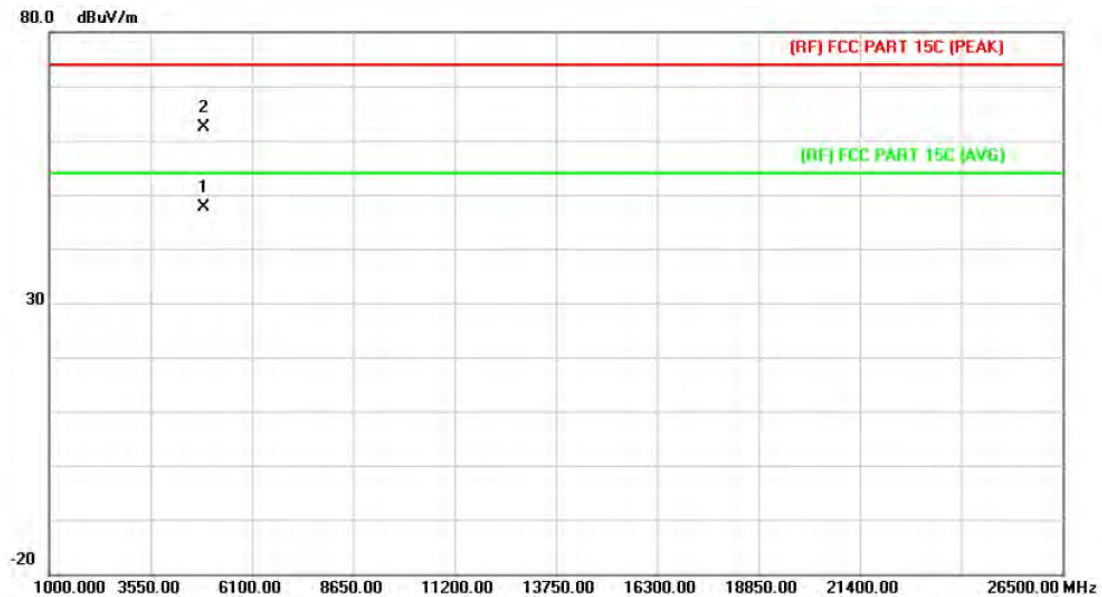


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.412	48.56	13.53	62.09	74.00	-11.91	peak
2	*	4873.412	33.63	13.53	47.16	54.00	-6.84	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX n(HT40) Mode 2452MHz ANT. 0+ANT. 1		
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	*	4903.136	33.94	13.74	47.68	54.00	-6.32	AVG
2		4903.664	48.61	13.74	62.35	74.00	-11.65	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX n(HT40) Mode 2452MHz ANT. 0+ANT. 1		
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	*	4902.896	33.90	13.74	47.64	54.00	-6.36	AVG
2		4903.058	49.09	13.74	62.83	74.00	-11.17	peak

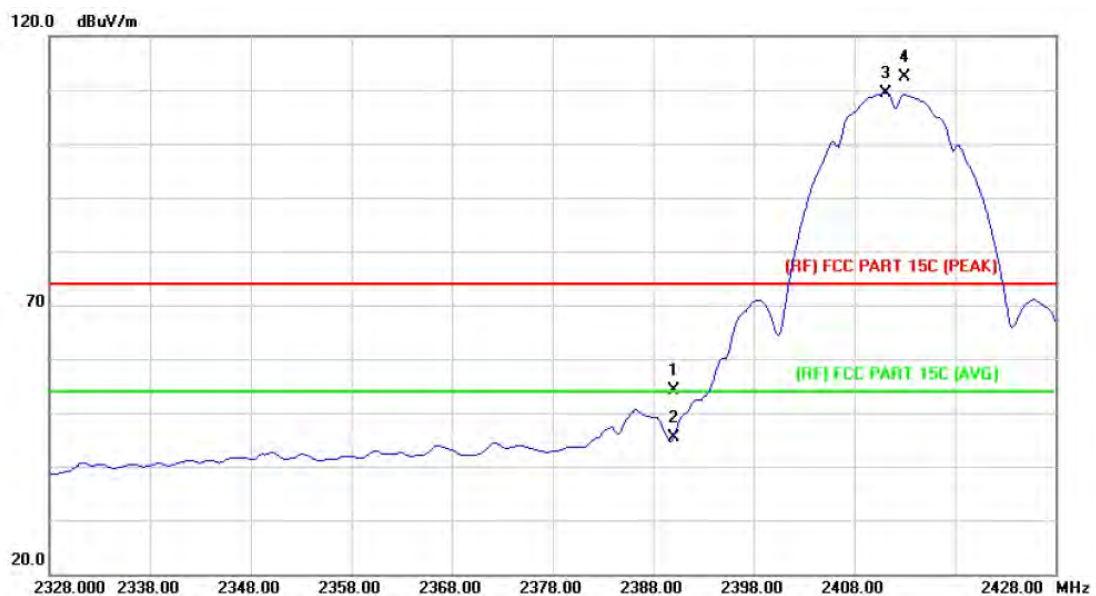
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

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

(1) Radiation Test

Temperature:	24.2°C	Relative Humidity:	40%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz ANT. 0.		
Remark:	Only show the worst case ANT. 0.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	52.85	1.28	54.13	74.00	-19.87	peak
2		2390.000	44.11	1.28	45.39	54.00	-8.61	AVG
3	*	2411.200	108.03	1.39	109.42	Fundamental Frequency		AVG
4	X	2413.000	110.98	1.40	112.38	Fundamental Frequency		peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz ANT. 0.		
Remark:	Only show the worst case ANT. 0.		

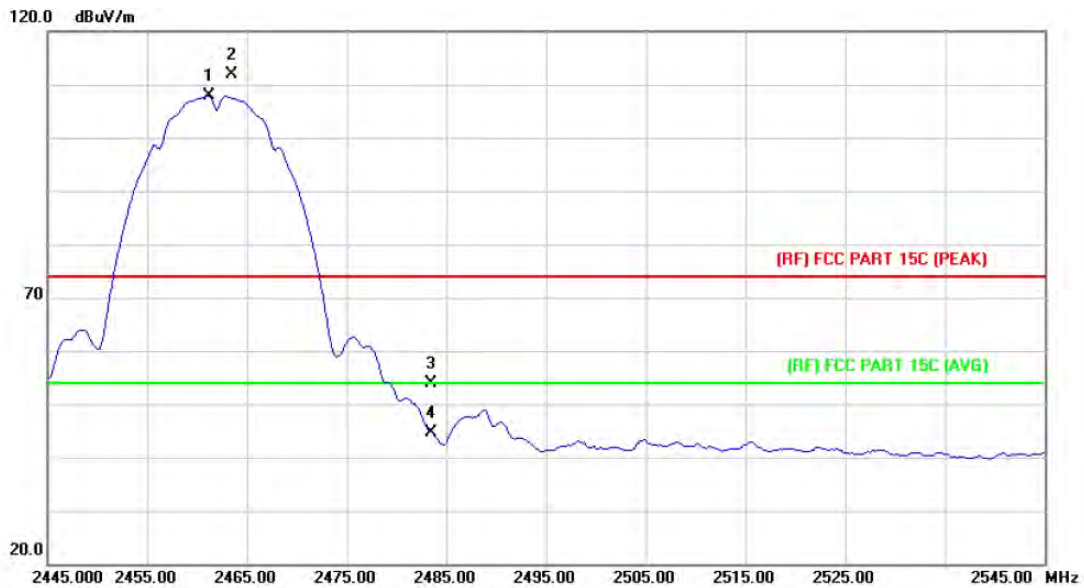


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.20	1.28	47.48	74.00	-26.52	peak
2		2390.000	37.00	1.28	38.28	54.00	-15.72	AVG
3	*	2411.200	99.60	1.39	100.99	Fundamental Frequency		AVG
4	X	2413.000	103.86	1.40	105.26	Fundamental Frequency		peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz ANT. 0.		
Remark:	Only show the worst case ANT. 0.		

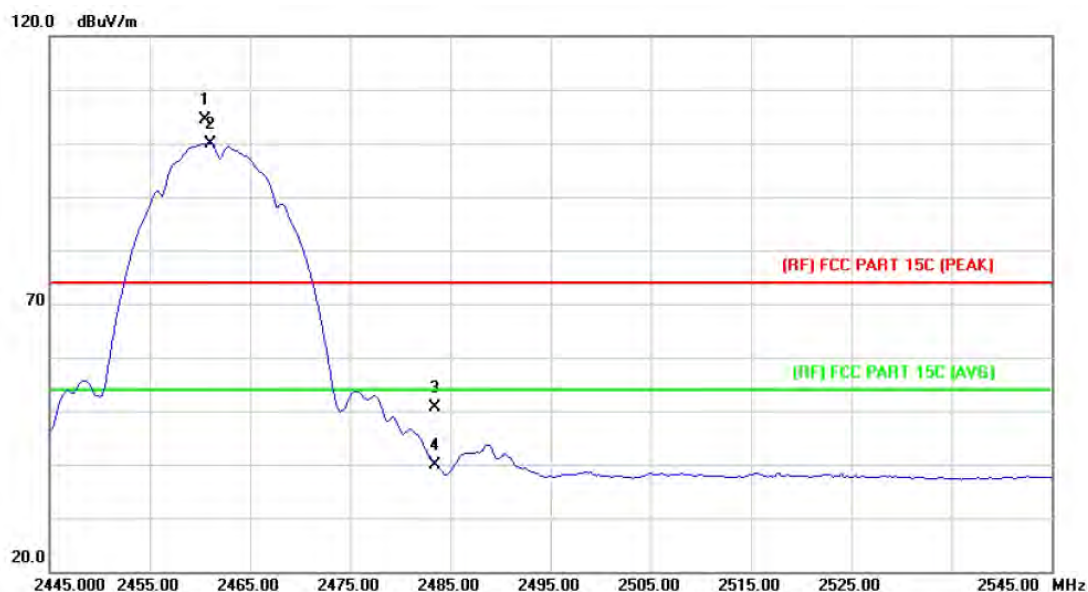


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2461.200	106.13	1.73	107.86	Fundamental Frequency		AVG
2	X	2463.400	110.17	1.75	111.92	Fundamental Frequency		peak
3		2483.500	52.04	1.88	53.92	74.00	-20.08	peak
4		2483.500	42.63	1.88	44.51	54.00	-9.49	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz ANT. 0.		
Remark:	Only show the worst case ANT. 0.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.600	102.55	1.72	104.27	Fundamental Frequency		peak
2	*	2461.000	98.25	1.72	99.97	Fundamental Frequency		AVG
3		2483.500	48.82	1.88	50.70	74.00	-23.30	peak
4		2483.500	38.11	1.88	39.99	54.00	-14.01	AVG

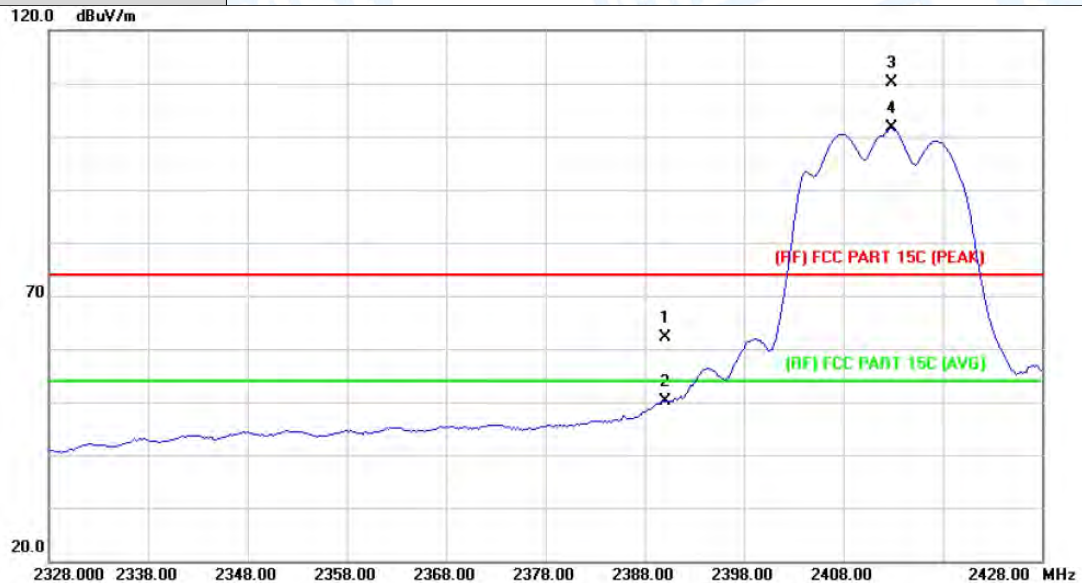
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz ANT. 0+ANT. 1		
Remark:	Only show the worst case.		

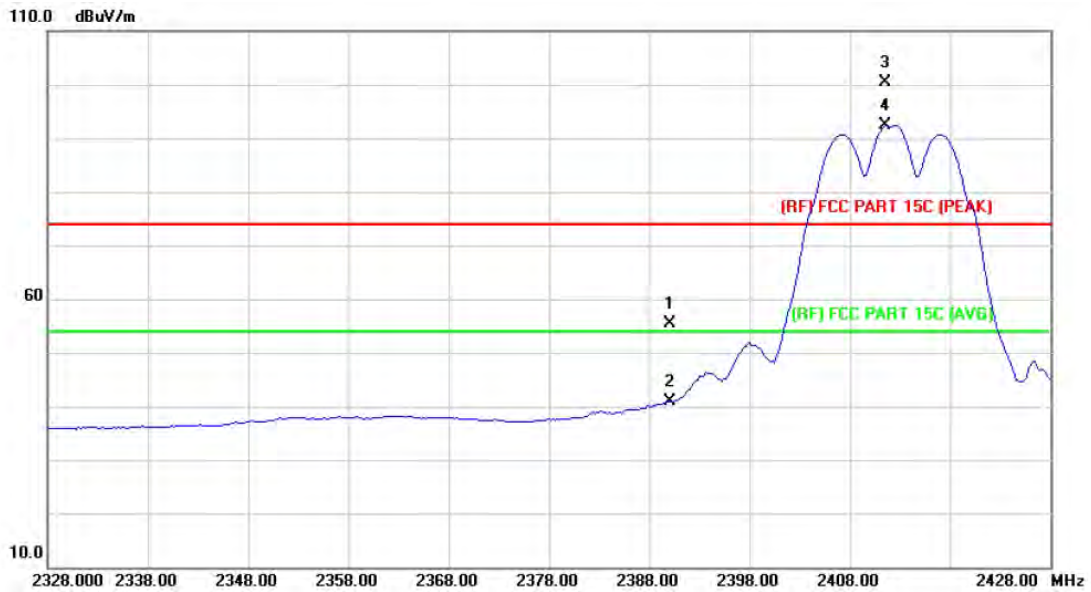


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	60.79	1.28	62.07	74.00	-11.93	peak
2		2390.000	48.83	1.28	50.11	54.00	-3.89	AVG
3	X	2412.800	108.63	1.40	110.03	Fundamental Frequency		peak
4	*	2412.800	100.20	1.40	101.60	Fundamental Frequency		AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz ANT. 0+ANT. 1		
Remark:	Only show the worst case.		

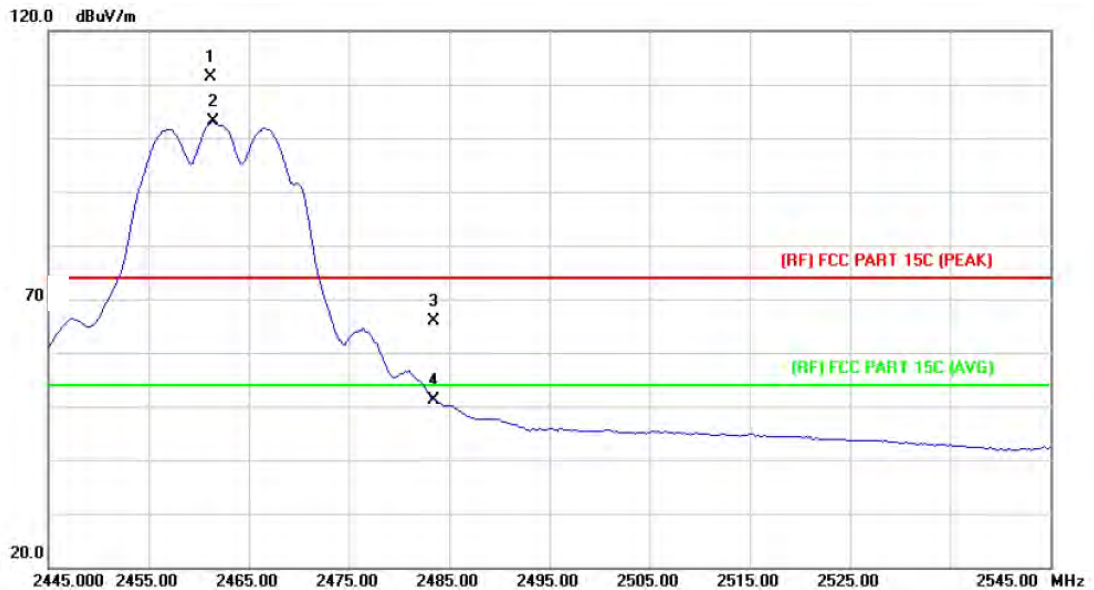


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	54.18	1.28	55.46	74.00	-18.54	peak
2		2390.000	39.69	1.28	40.97	54.00	-13.03	AVG
3	X	2411.600	99.11	1.39	100.50	Fundamental Frequency		peak
4	*	2411.600	90.89	1.39	92.28	Fundamental Frequency		AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz ANT. 0+ANT. 1		
Remark:	Only show the worst case.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2461.200	109.67	1.73	111.40	Fundamental Frequency		peak
2	*	2461.400	101.32	1.73	103.05	Fundamental Frequency		AVG
3		2483.500	64.09	1.88	65.97	74.00	-8.03	peak
4		2483.500	49.19	1.88	51.07	54.00	-2.93	AVG

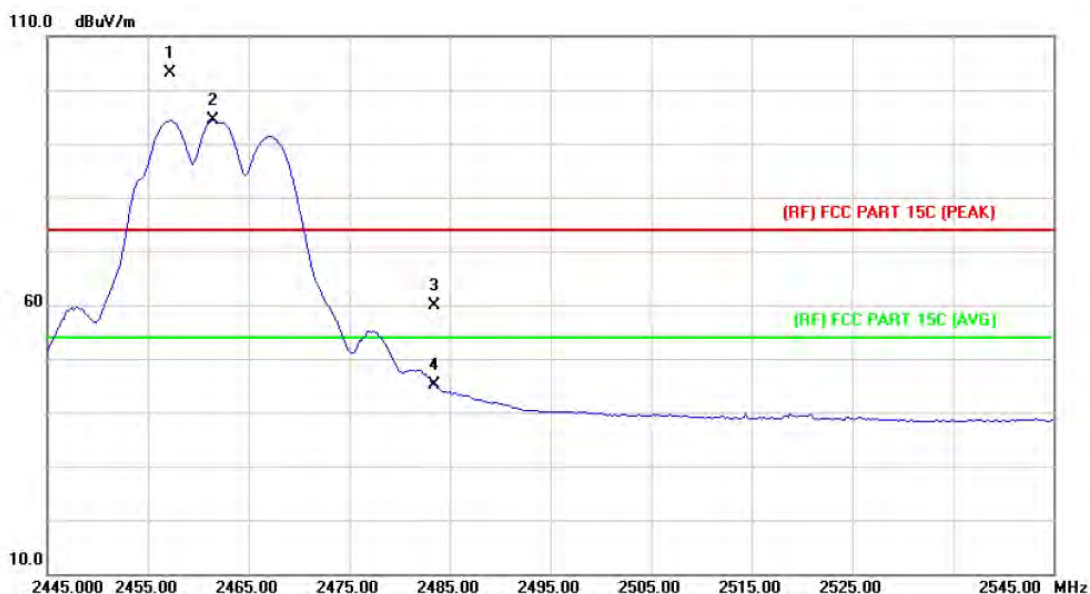
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz ANT. 0+ANT. 1		
Remark:	Only show the worst case.		

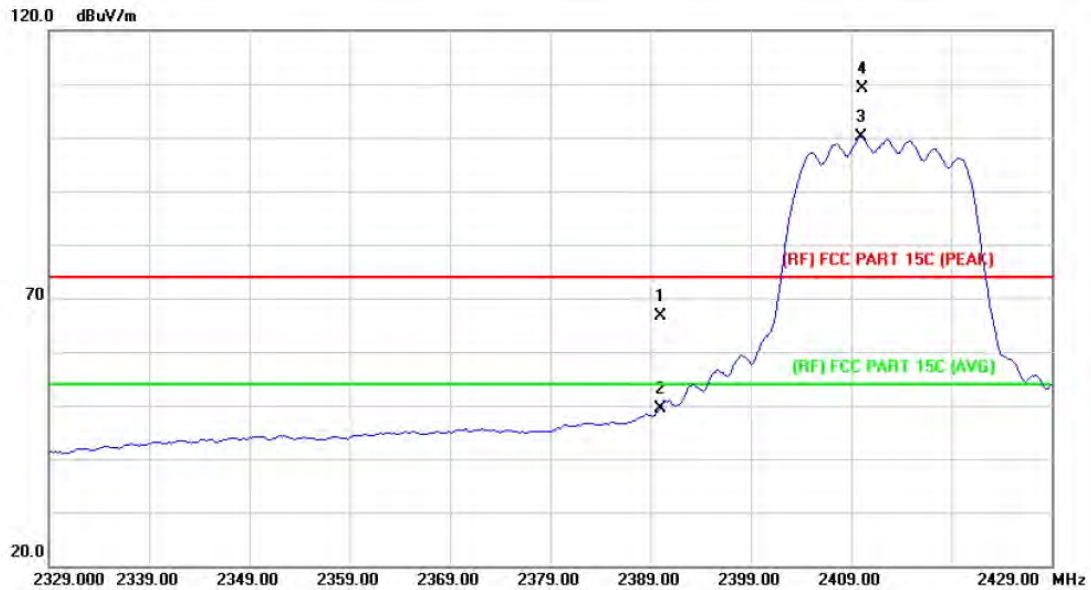


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2457.200	101.48	1.70	103.18	Fundamental Frequency		peak
2	*	2461.400	92.62	1.73	94.35	Fundamental Frequency		AVG
3		2483.500	57.89	1.88	59.77	74.00	-14.23	peak
4		2483.500	43.24	1.88	45.12	54.00	-8.88	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz ANT. 0+ANT. 0		
Remark:	N/A		

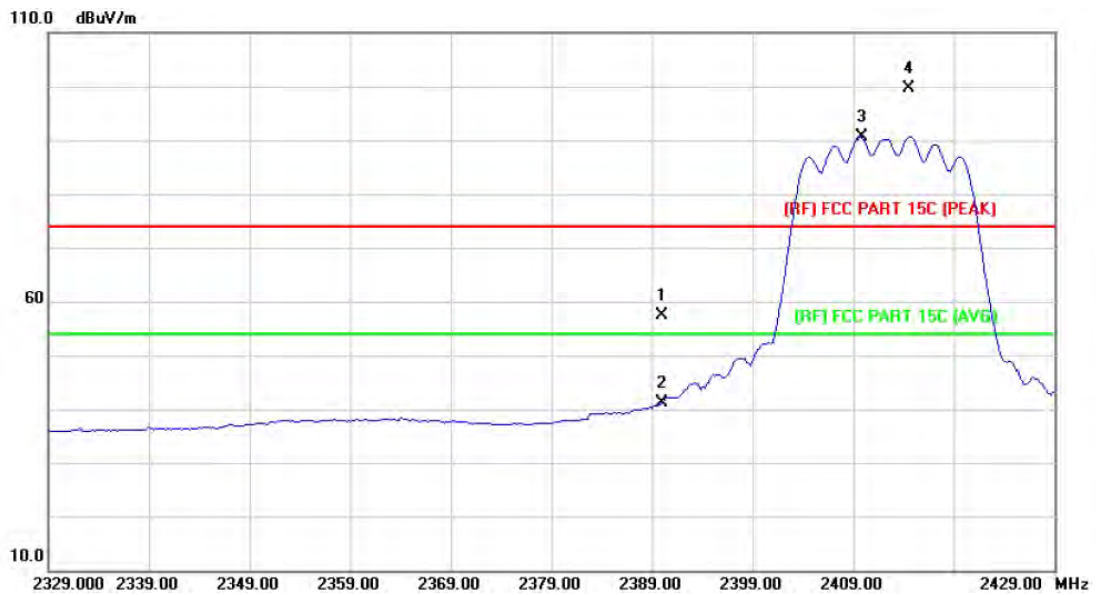


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	65.31	1.28	66.59	74.00	-7.41	peak
2		2390.000	48.13	1.28	49.41	54.00	-4.59	AVG
3	*	2410.000	98.75	1.38	100.13	Fundamental Frequency		AVG
4	X	2410.200	107.73	1.38	109.11	Fundamental Frequency		peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz ANT. 0+ANT. 1		
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	56.16	1.28	57.44	74.00	-16.56	peak
2		2390.000	39.92	1.28	41.20	54.00	-12.80	AVG
3	*	2409.800	89.29	1.38	90.67	Fundamental Frequency		AVG
4	X	2414.600	98.29	1.41	99.70	Fundamental Frequency		peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz ANT. 0+ANT. 1		
Remark:	N/A		

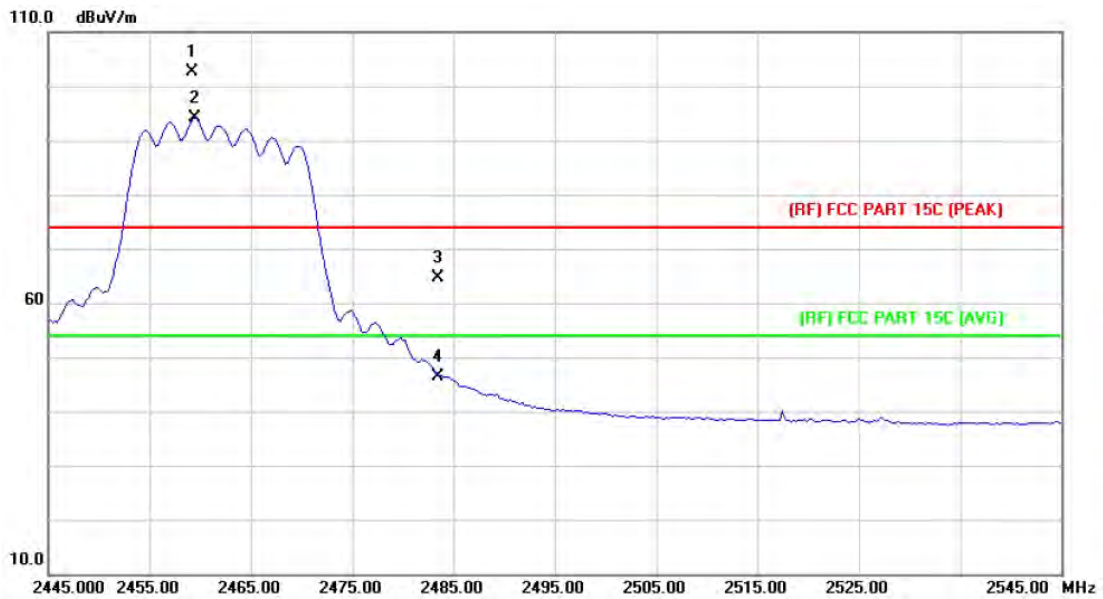


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2459.400	100.15	1.71	101.86	Fundamental Frequency		AVG
2	X	2463.800	108.65	1.75	110.40	Fundamental Frequency		peak
3		2483.500	68.43	1.88	70.31	74.00	-3.69	peak
4		2483.500	51.08	1.88	52.96	54.00	-1.04	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz ANT. 0+ANT. 1		
Remark:	N/A		

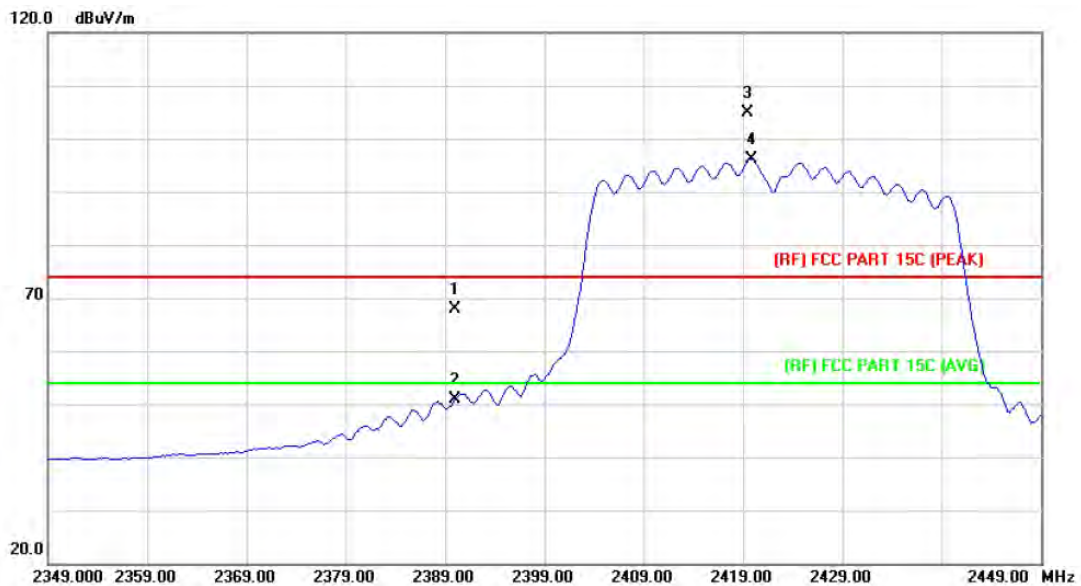


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2459.200	100.95	1.71	102.66	Fundamental Frequency		peak
2	*	2459.400	92.41	1.71	94.12	Fundamental Frequency		AVG
3		2483.500	62.87	1.88	64.75	74.00	-9.25	peak
4		2483.500	44.61	1.88	46.49	54.00	-7.51	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz ANT. 0+ANT. 1		
Remark:	N/A		

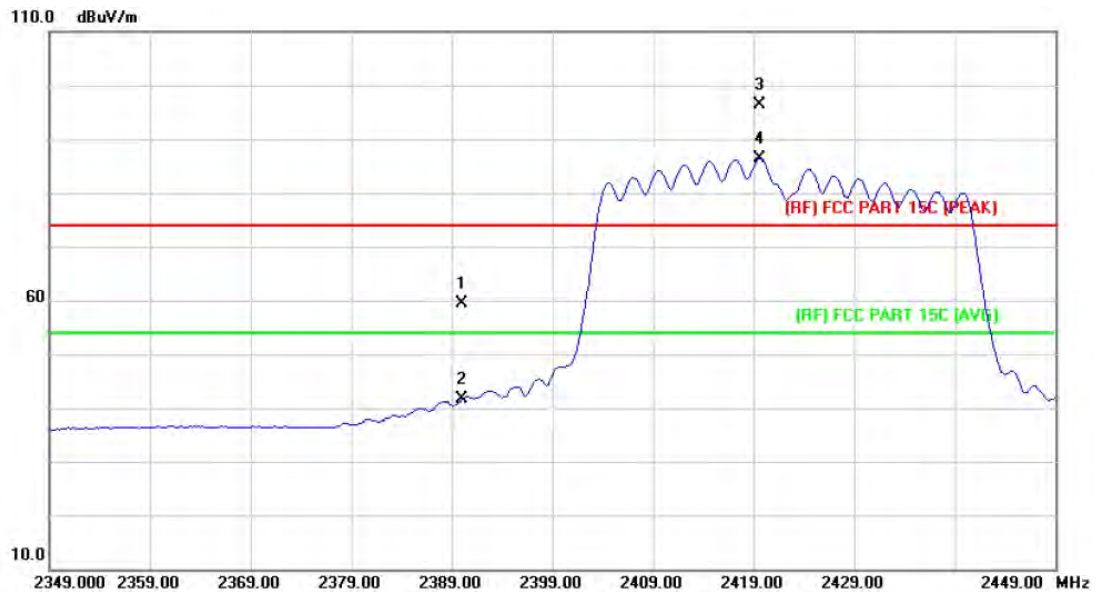


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	66.49	1.28	67.77	74.00	-6.23	peak
2		2390.000	49.69	1.28	50.97	54.00	-3.03	AVG
3	X	2419.400	103.53	1.45	104.98	Fundamental Frequency		peak
4	*	2419.800	94.75	1.45	96.20	Fundamental Frequency		AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz ANT. 0+ANT. 1		
Remark:	N/A		

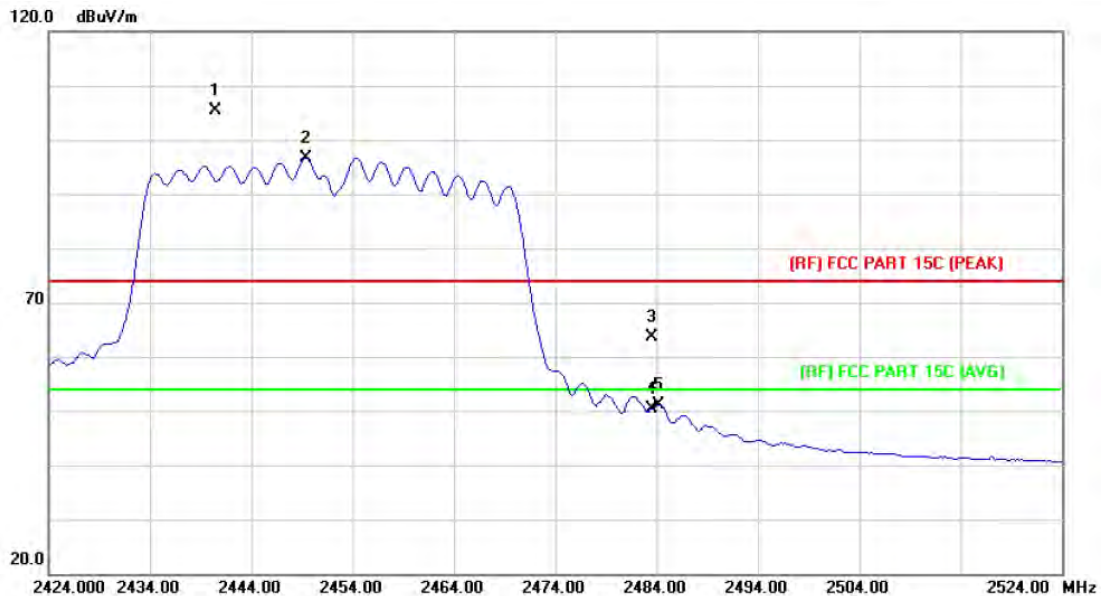


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	58.03	1.28	59.31	74.00	-14.69	peak
2		2390.000	40.47	1.28	41.75	54.00	-12.25	AVG
3	*	2419.600	94.95	1.45	96.40	Fundamental Frequency		peak
4	X	2419.600	85.04	1.45	86.49	Fundamental Frequency		AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

Temperature:	23.4℃	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz ANT. 0+ANT. 1		
Remark:	N/A		

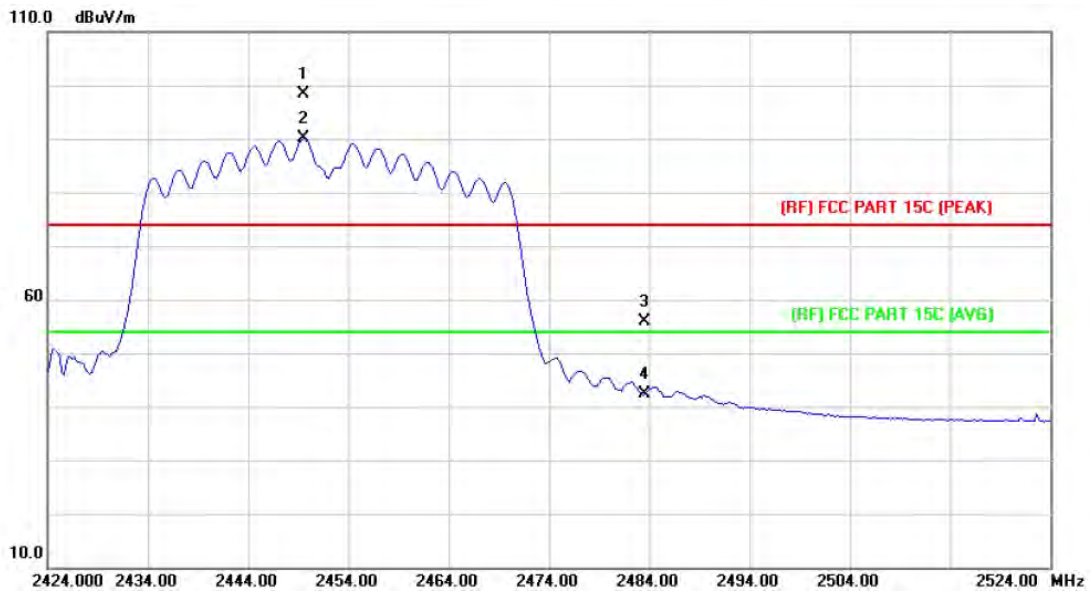


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2440.400	103.72	1.59	105.31	Fundamental Frequency		peak
2	*	2449.400	95.02	1.65	96.67	Fundamental Frequency		AVG
3		2483.500	61.84	1.88	63.72	74.00	-10.28	peak
4		2483.500	48.40	1.88	50.28	54.00	-3.72	AVG
5		2484.200	49.21	1.88	51.09	54.00	-2.91	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)

Temperature:	23.4°C	Relative Humidity:	35%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz ANT. 0+ANT. 1		
Remark:	N/A		



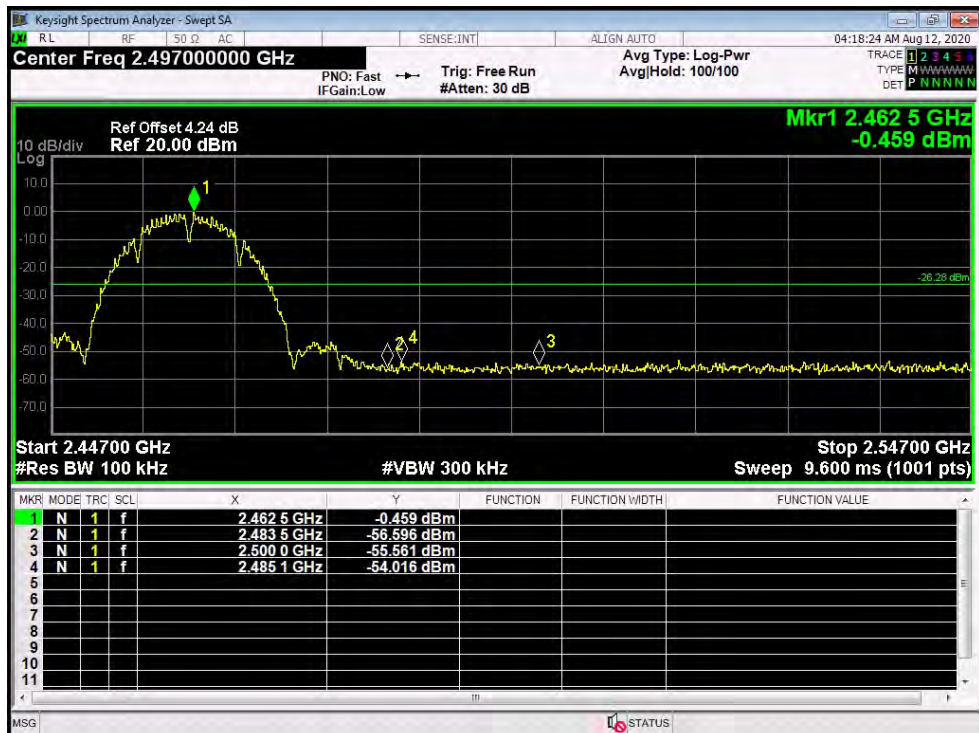
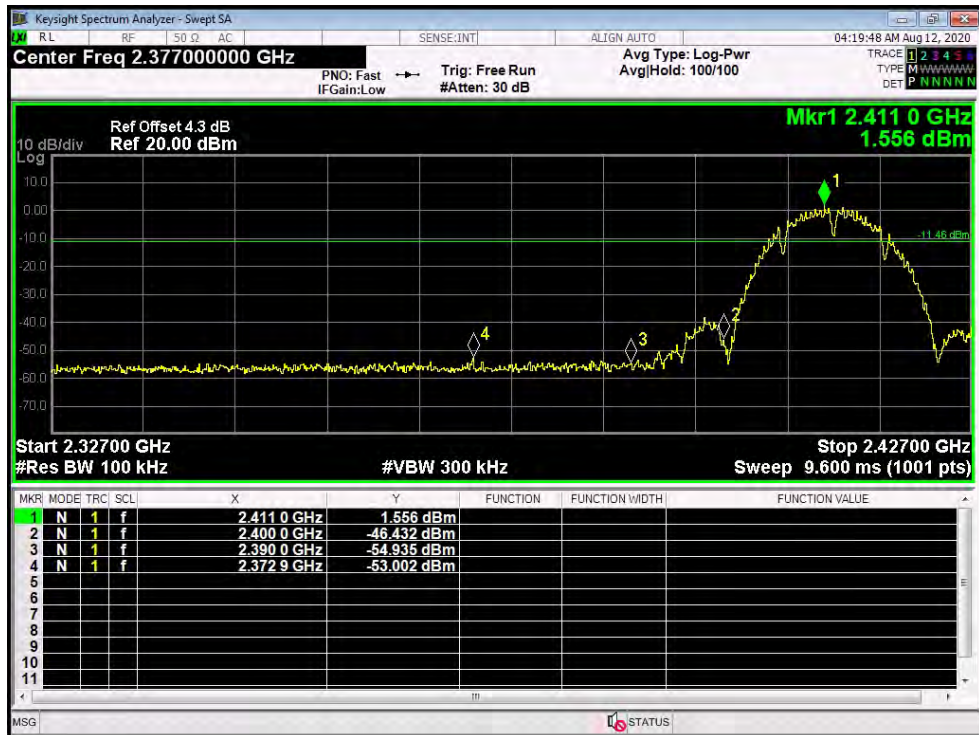
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2449.600	96.78	1.65	98.43	Fundamental Frequency		peak
2	*	2449.600	88.45	1.65	90.10	Fundamental Frequency		AVG
3		2483.500	54.05	1.88	55.93	74.00	-18.07	peak
4		2483.500	40.42	1.88	42.30	54.00	-11.70	AVG

Remark:

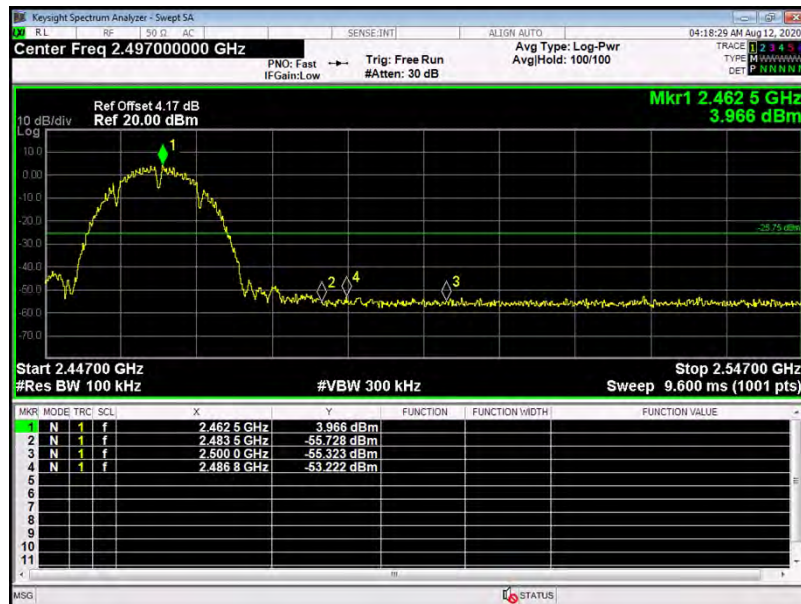
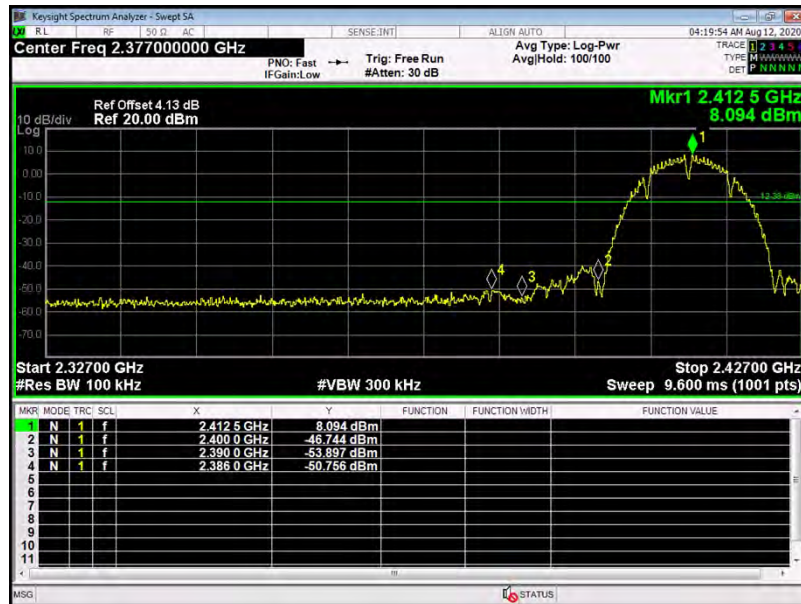
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

(2) Conducted Test

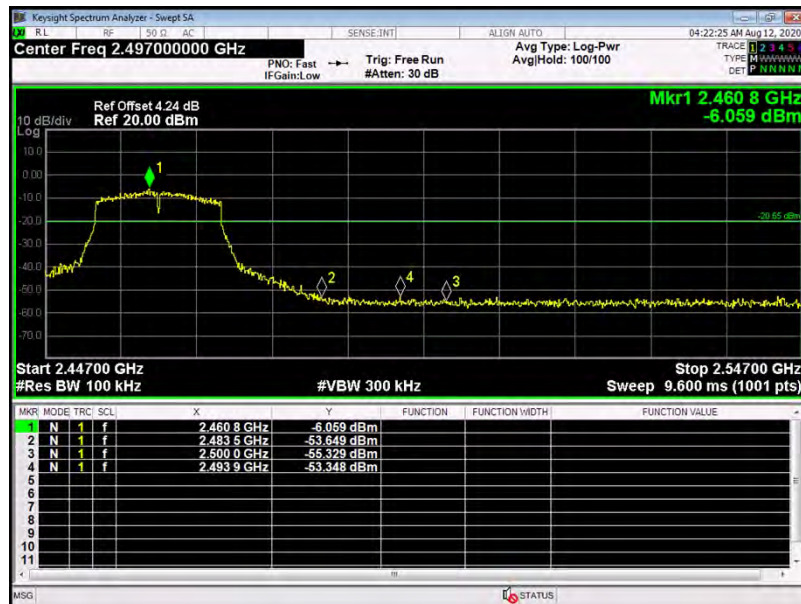
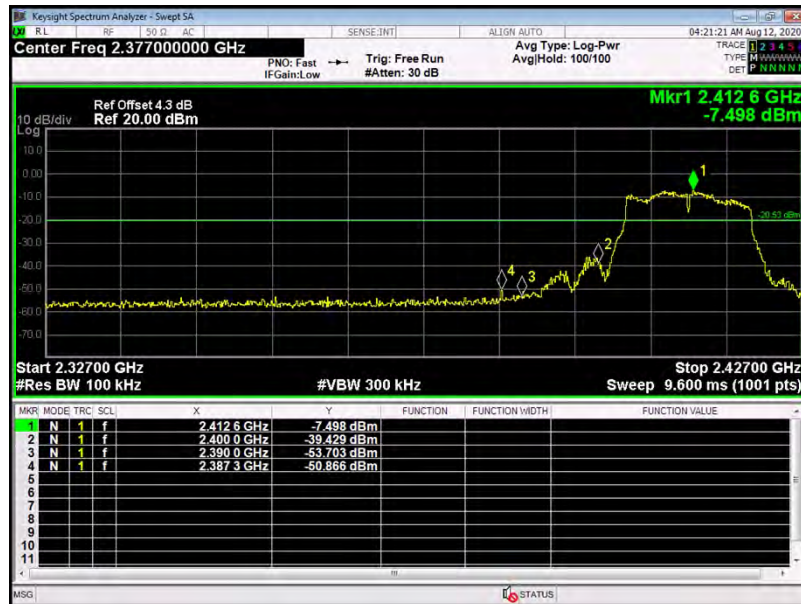
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz ANT. 0		
Remark:	The EUT is programmed in continuously transmitting mode		



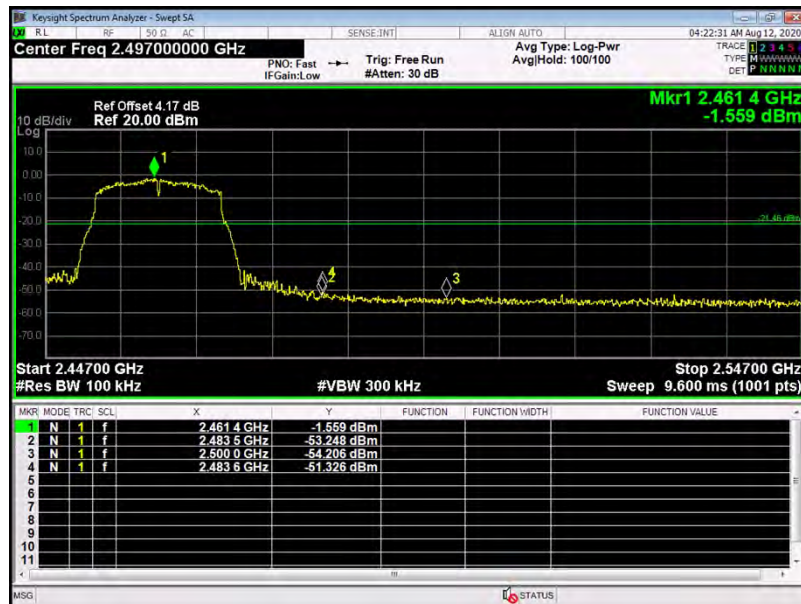
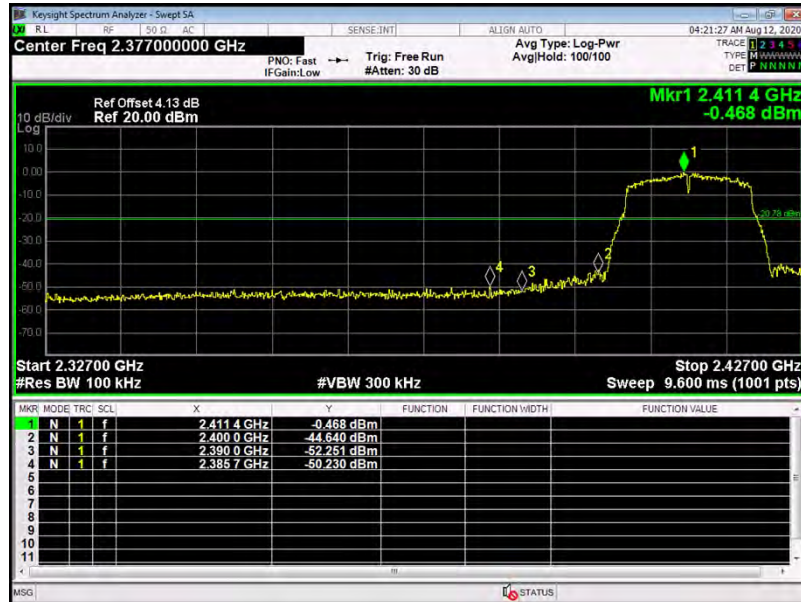
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz ANT. 0		
Remark:	The EUT is programmed in continuously transmitting mode		



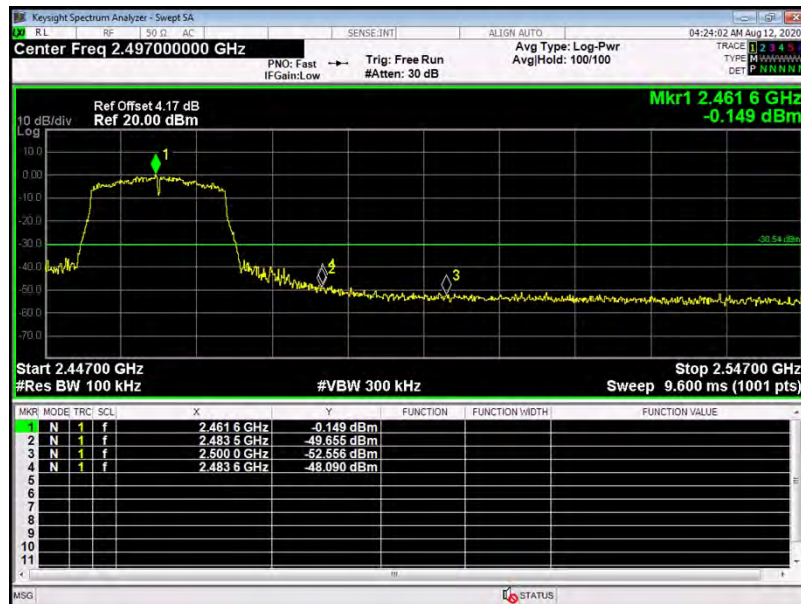
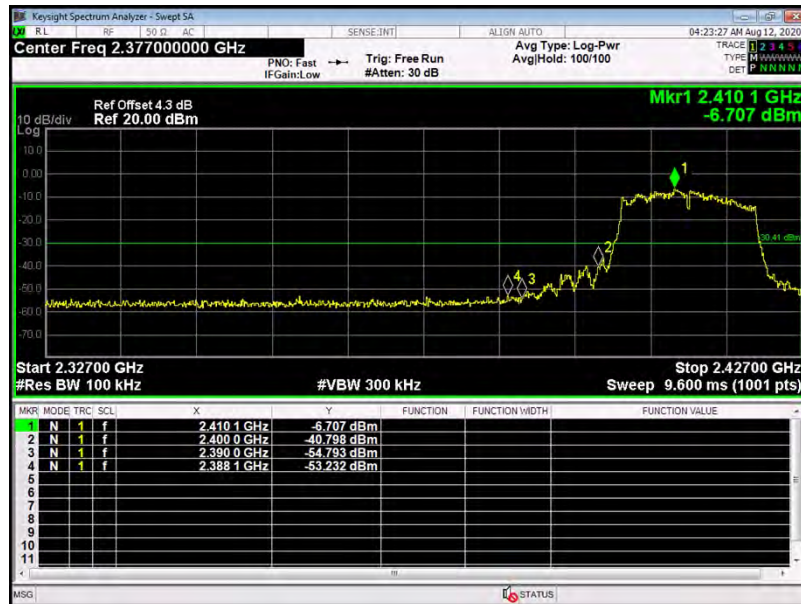
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz ANT. 0		
Remark:	The EUT is programmed in continuously transmitting mode		



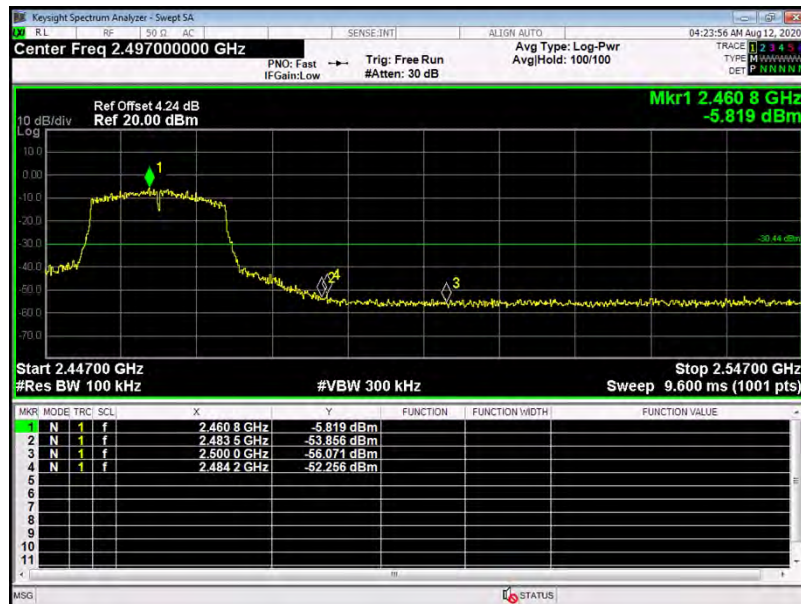
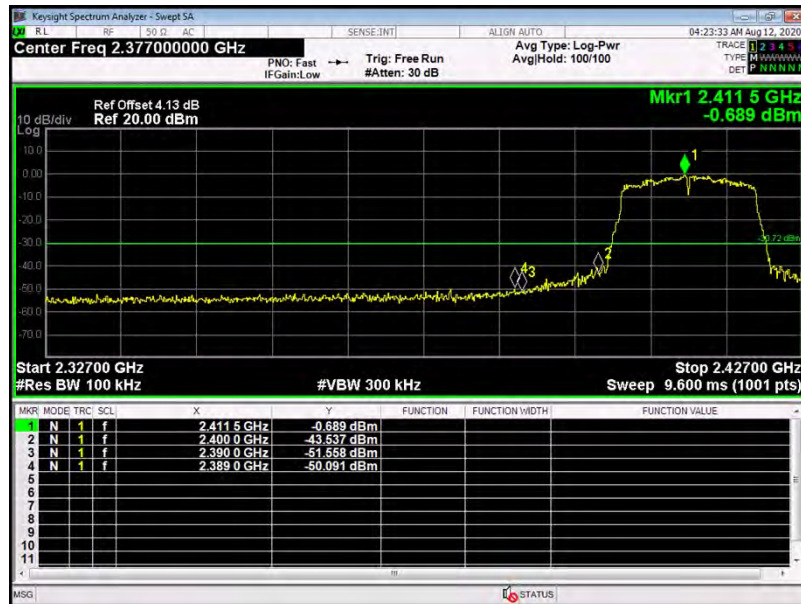
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz ANT. 1		
Remark:	The EUT is programmed in continuously transmitting mode		



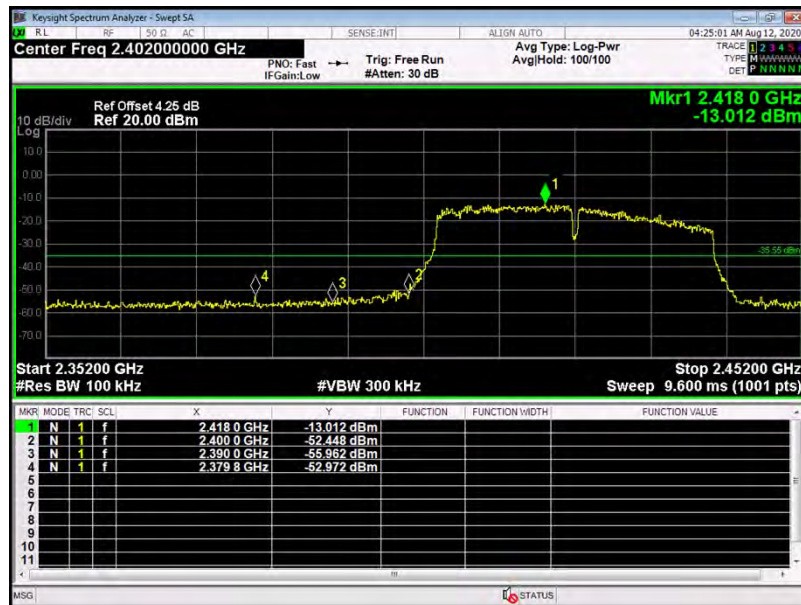
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT. 0		
Remark:	The EUT is programmed in continuously transmitting mode		



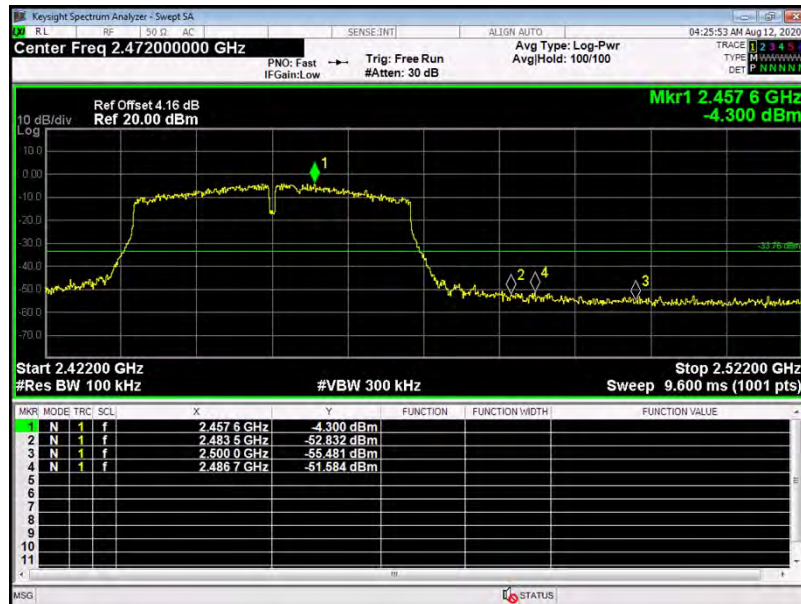
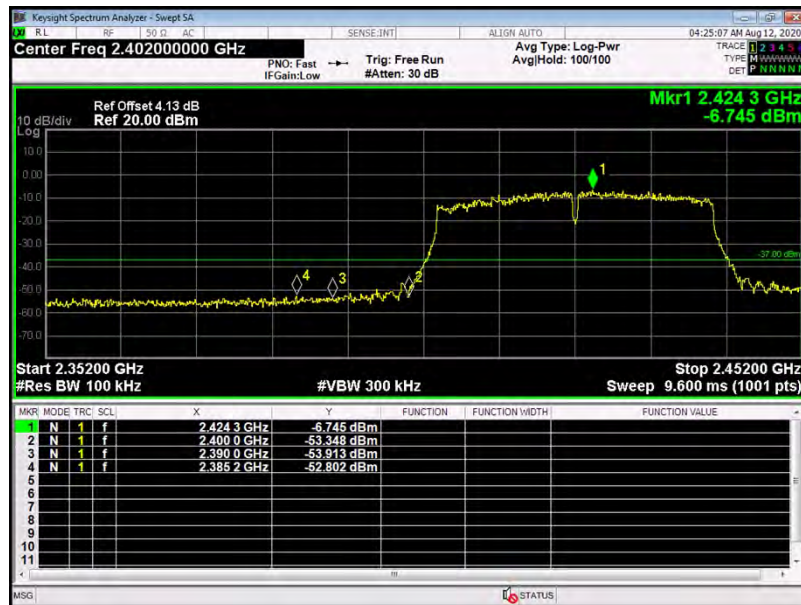
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT. 1		
Remark:	The EUT is programmed in continuously transmitting mode		



Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz ANT. 0		
Remark:	The EUT is programmed in continuously transmitting mode		



Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz ANT. 1		
Remark:	The EUT is programmed in continuously transmitting mode		



Attachment D-- Bandwidth Test Data

Temperature:	25℃		Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ			
Test Mode:	TX 802.11B Mode ANT. 0			
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	
2412	9.080	14.204	>=0.5	
2437	9.600	15.170		
2462	9.565	14.500		
802.11B Mode				
2412 MHz				

Keysight Spectrum Analyzer - Occupied BW

RLRF50ΩACSENSE[INT]ALIGN AUTO11:56:24 PM Aug 03, 2020

Center Freq 2.412000000 GHzCenter Freq: 2.412000000 GHzRadio Std: None

#IFGain:LowTrig: Free RunAvg|Hold: 100/100Radio Device: BTS

Ref Offset 4.3 dBRef 24.30 dBm

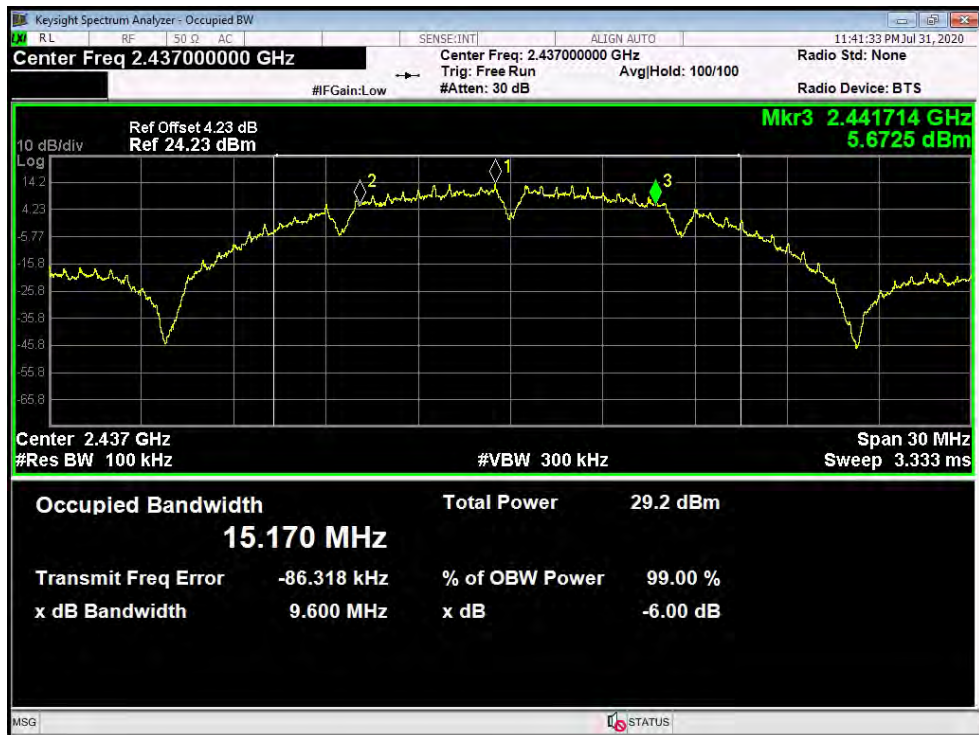
Mkr3 2.416568 GHz-1.0395 dBm

10 dB/divLog

</

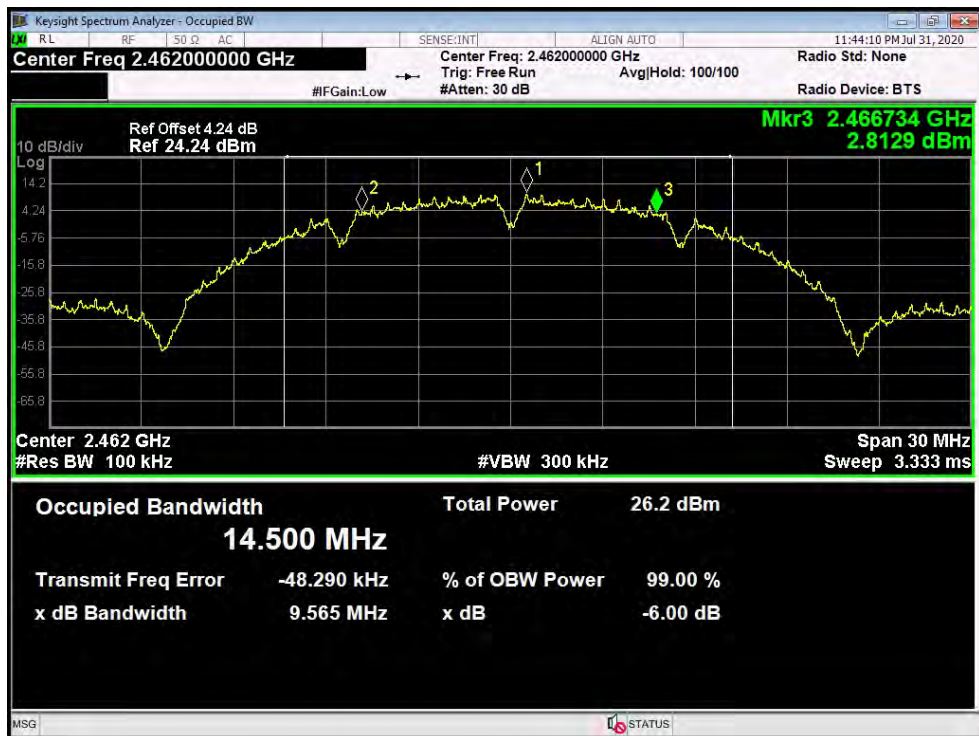
802.11B Mode

2437 MHz



802.11B Mode

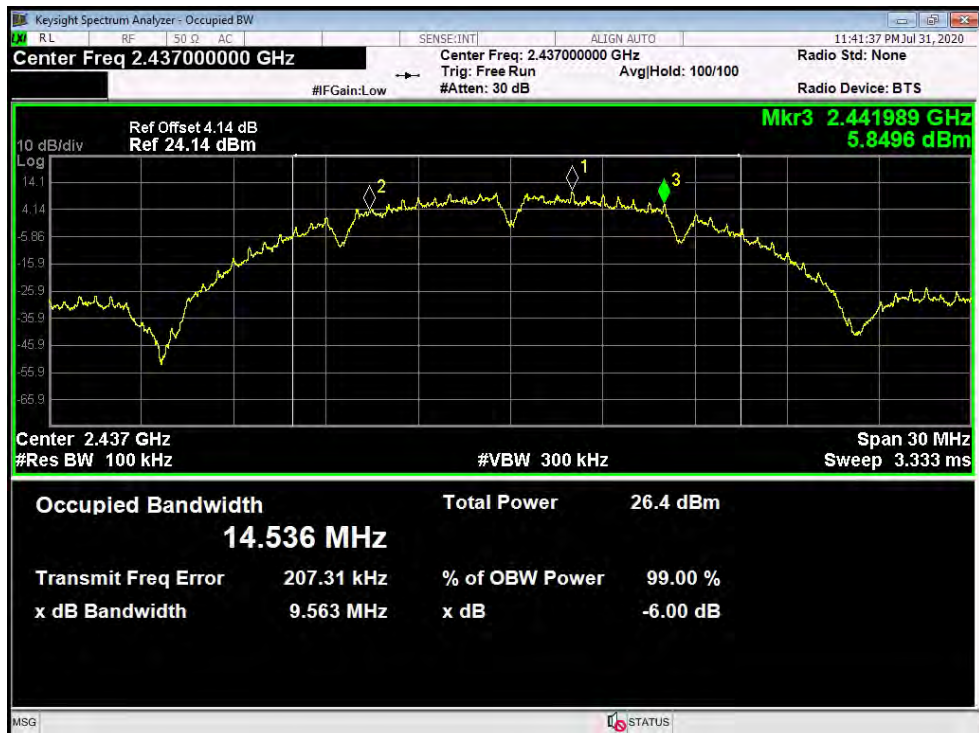
2462 MHz





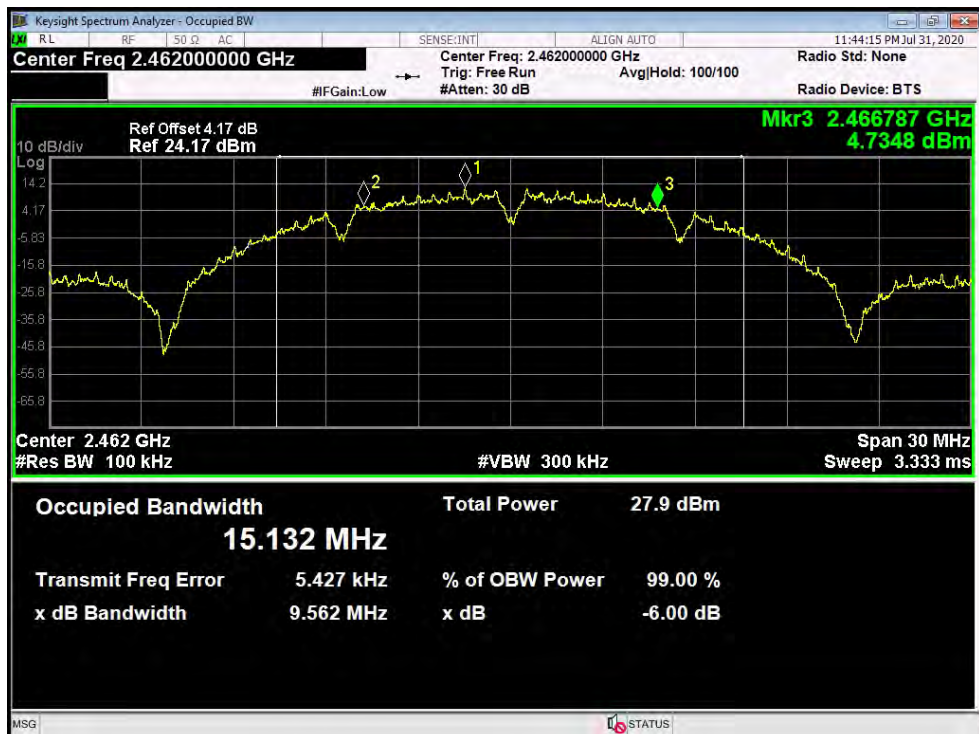
802.11B Mode

2437 MHz



802.11B Mode

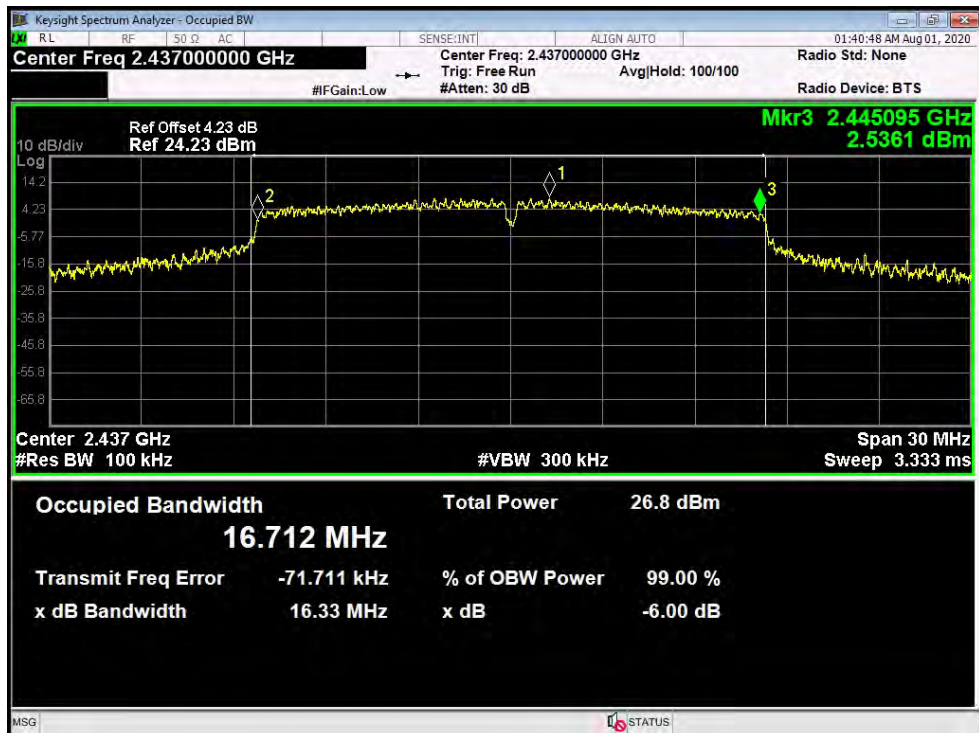
2462 MHz





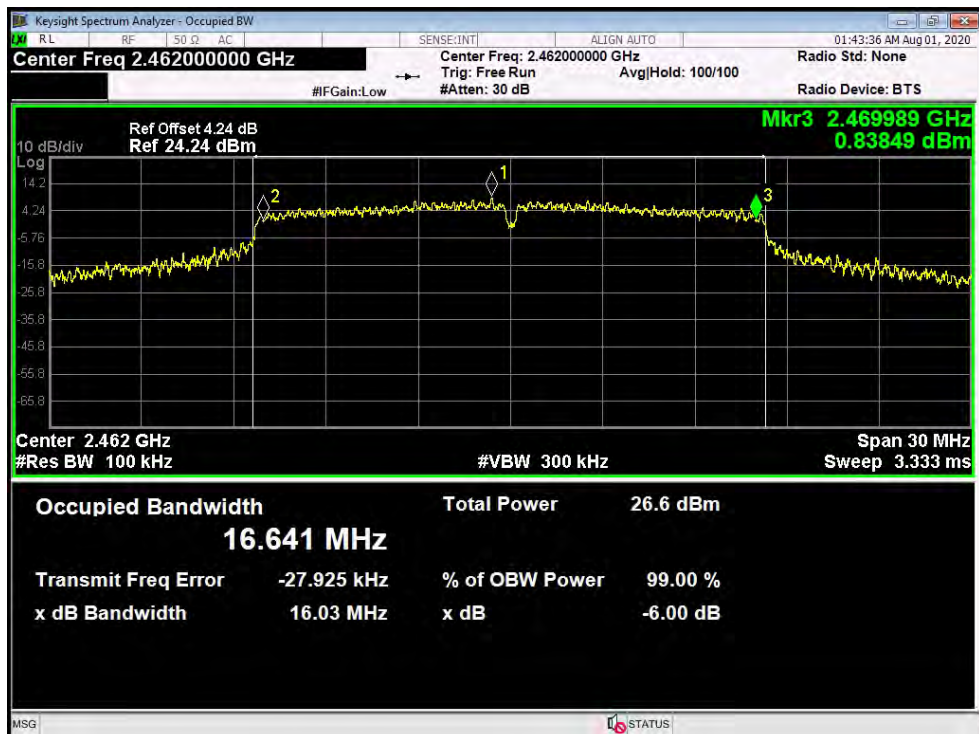
802.11G Mode

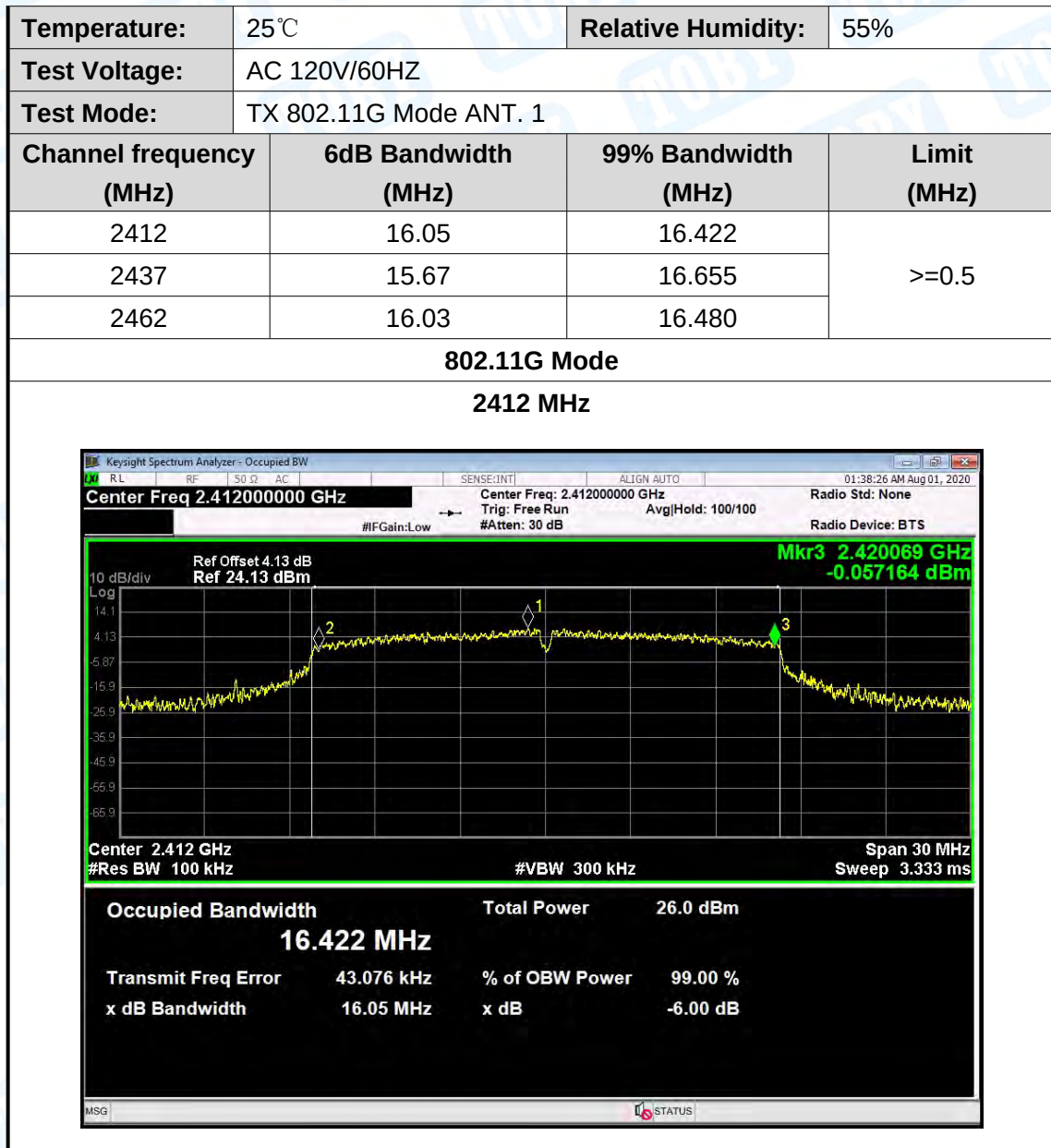
2437 MHz



802.11G Mode

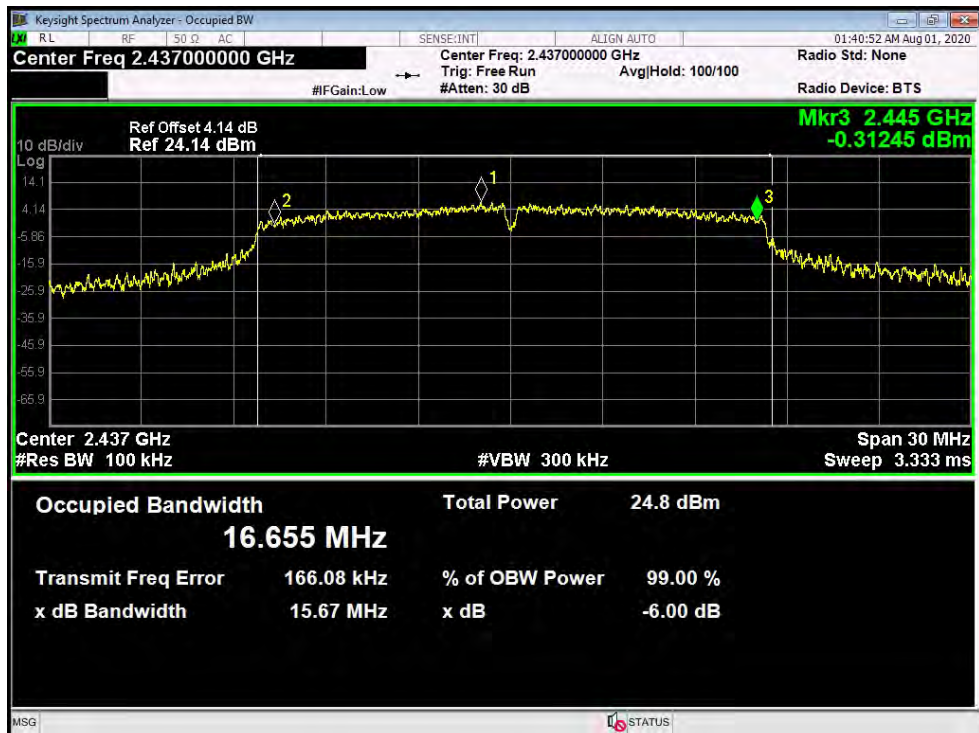
2462 MHz





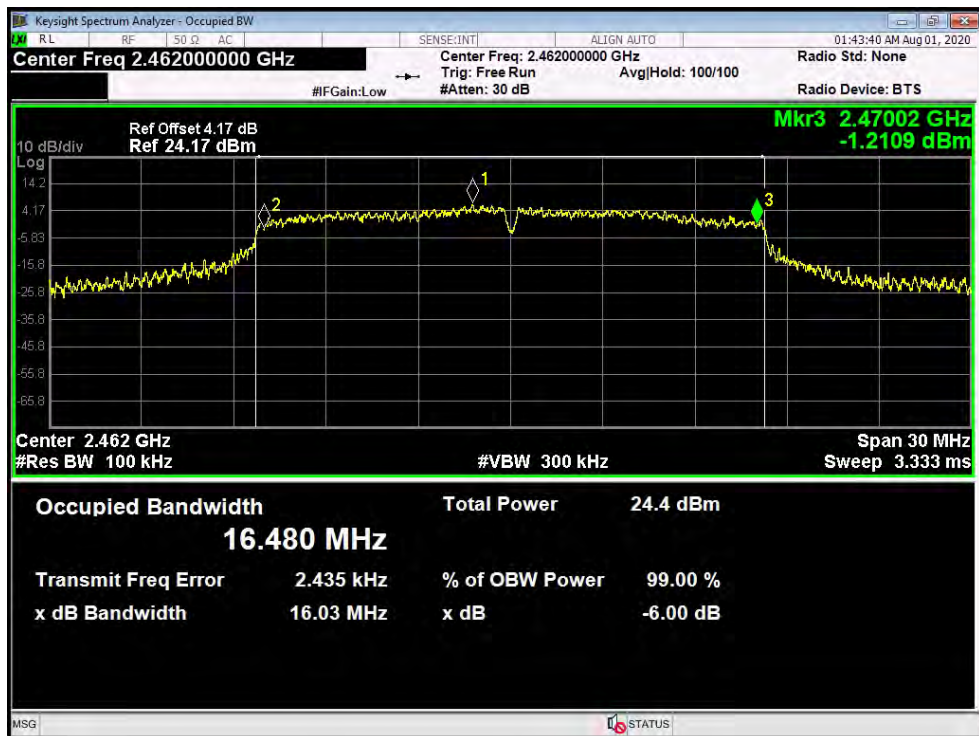
802.11G Mode

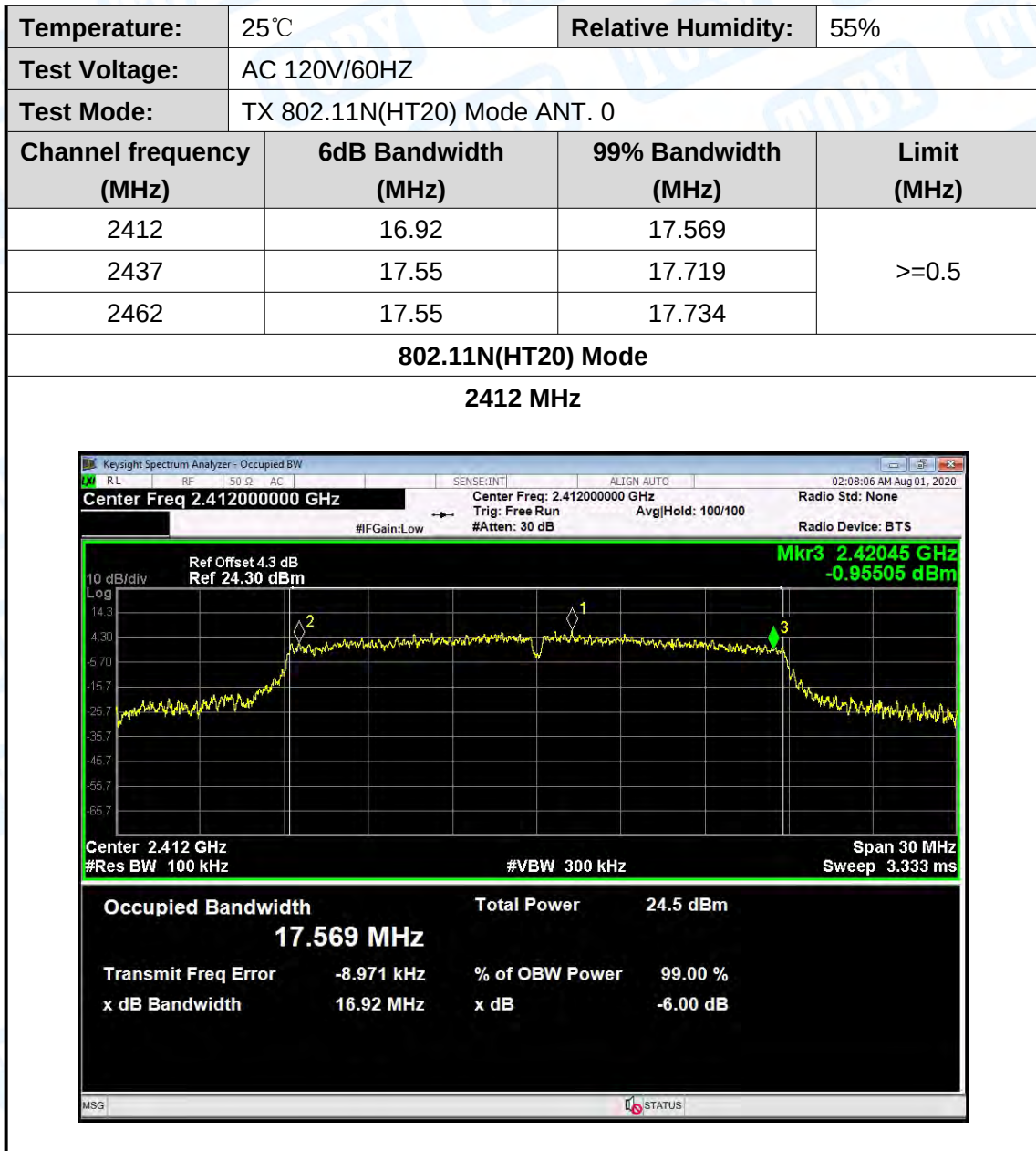
2437 MHz



802.11G Mode

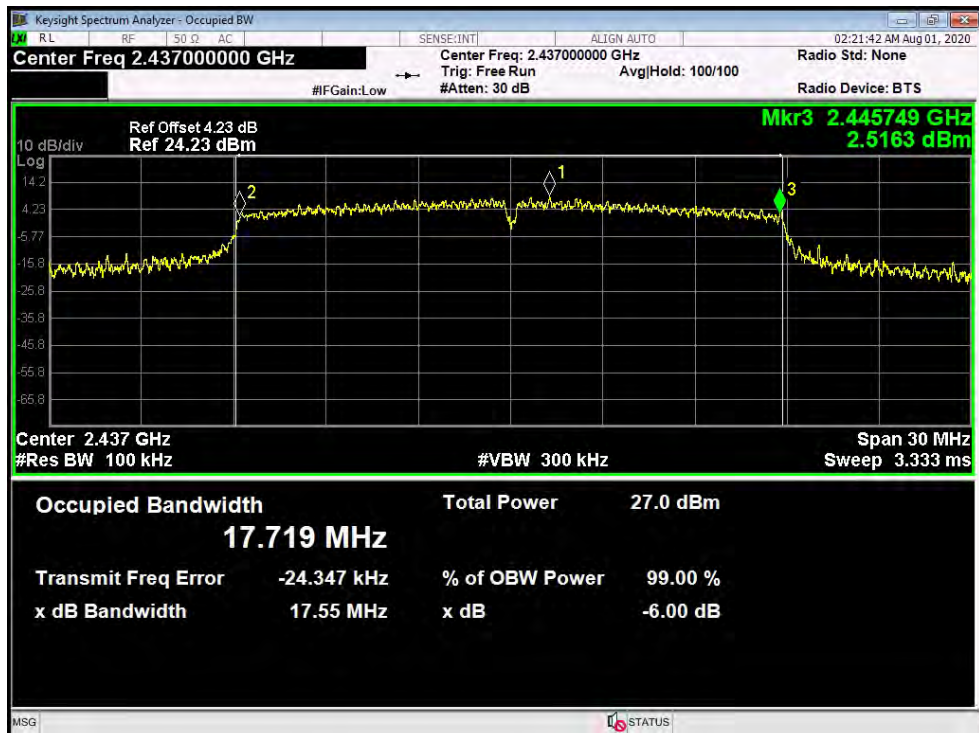
2462 MHz





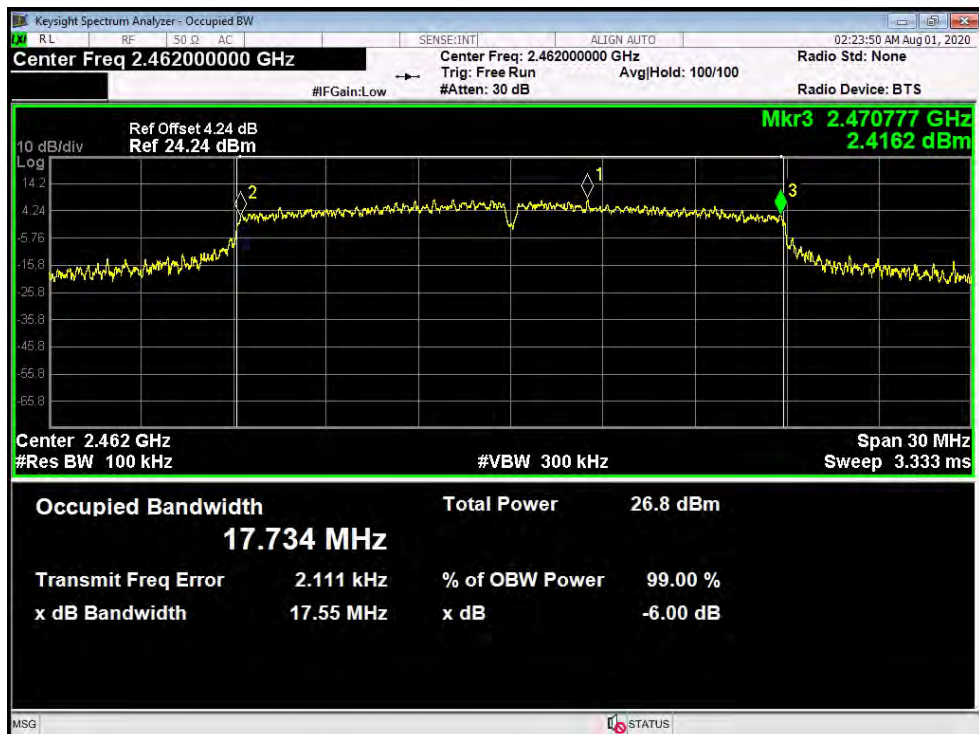
802.11N(HT20) Mode

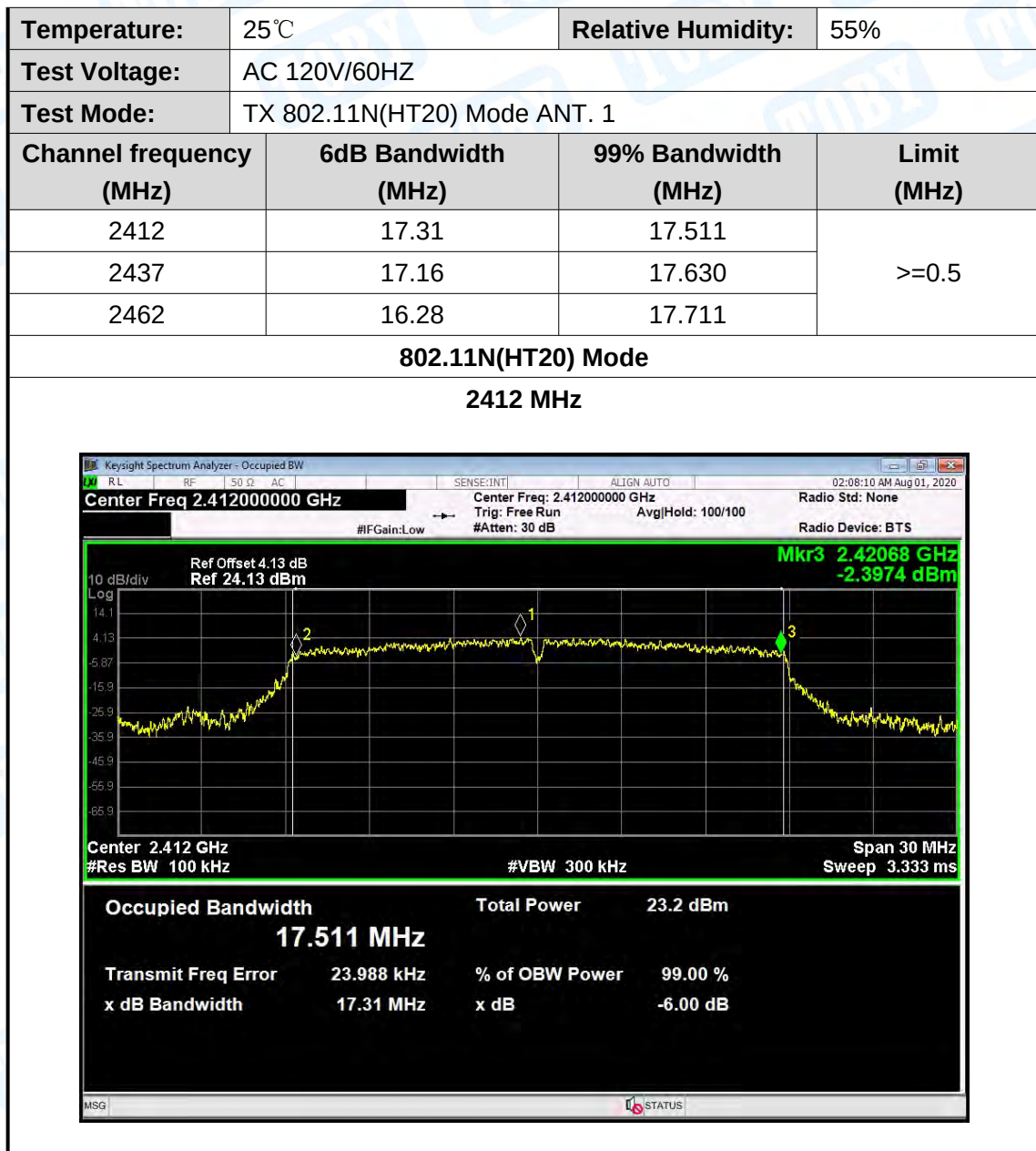
2437 MHz



802.11N(HT20) Mode

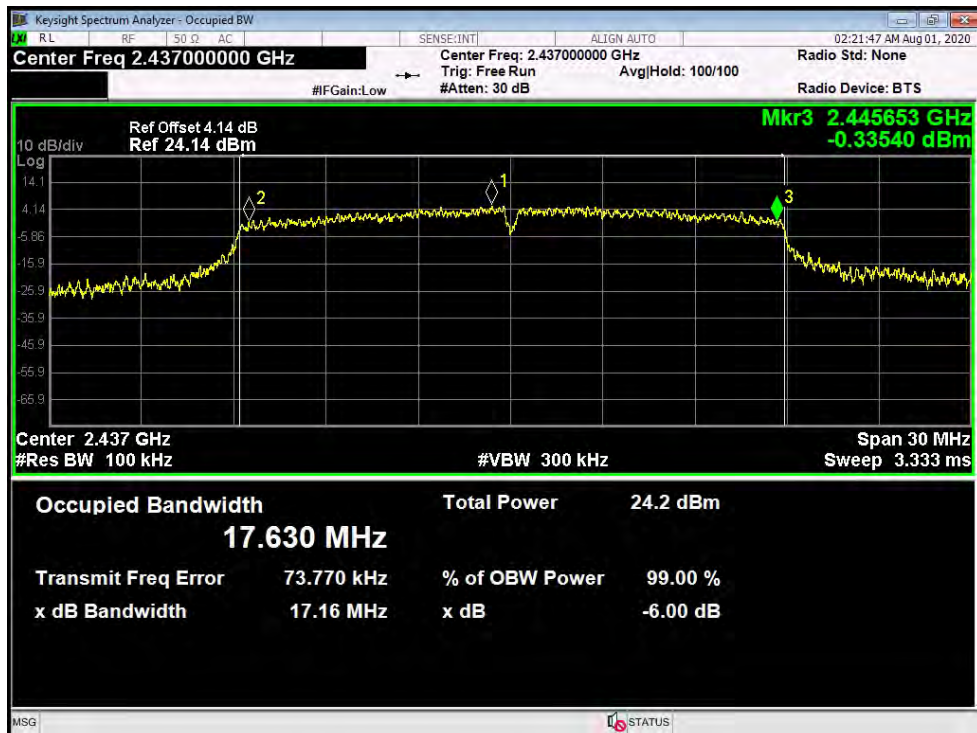
2462 MHz





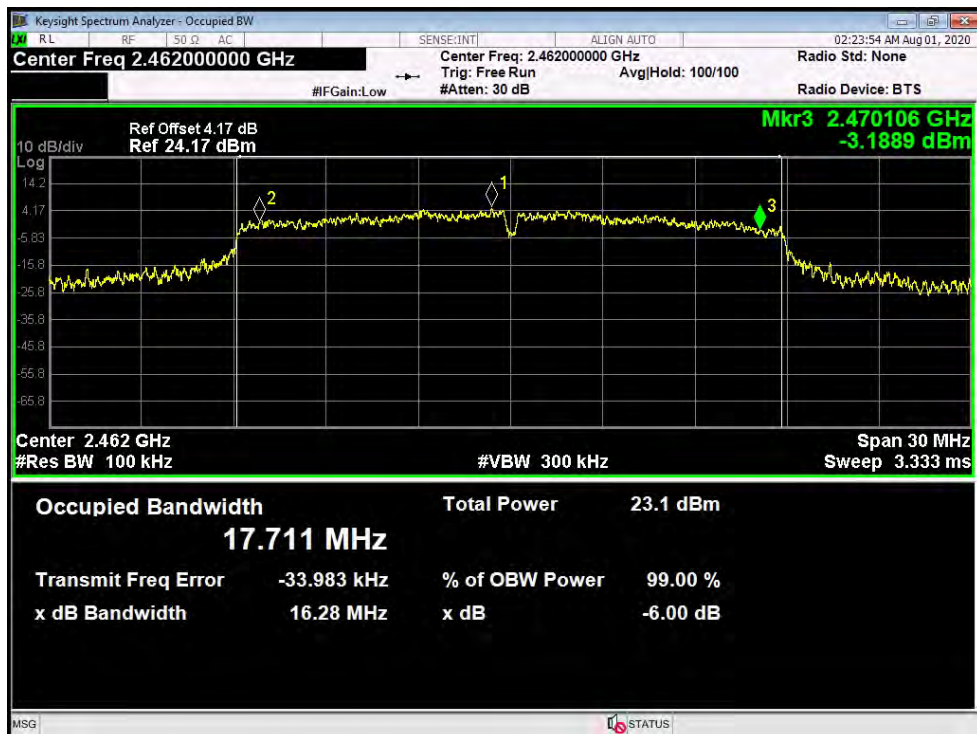
802.11N(HT20) Mode

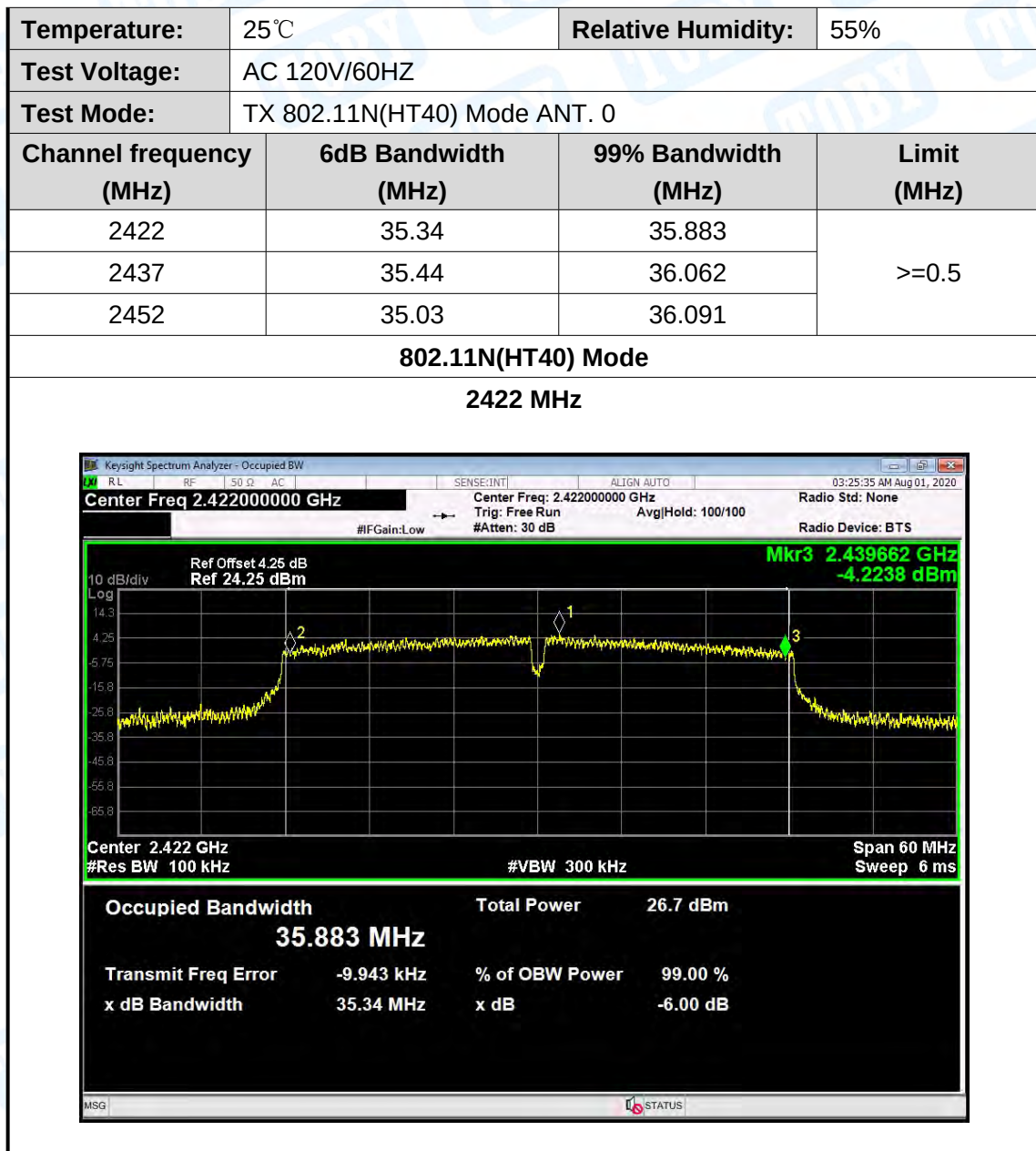
2437 MHz



802.11N(HT20) Mode

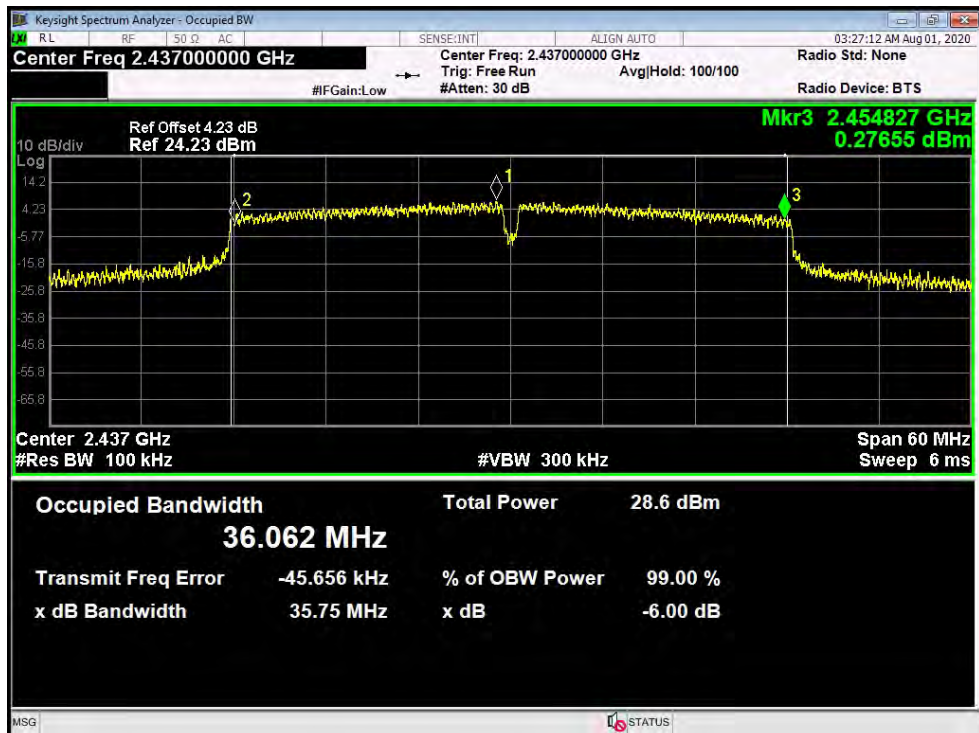
2462 MHz





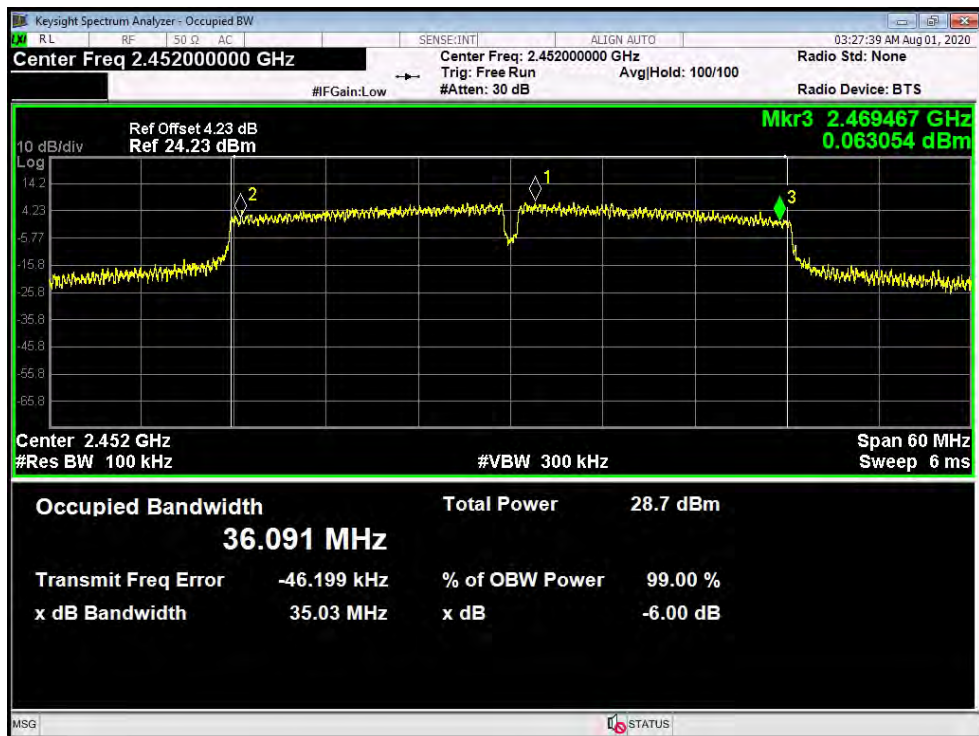
802.11N(HT40) Mode

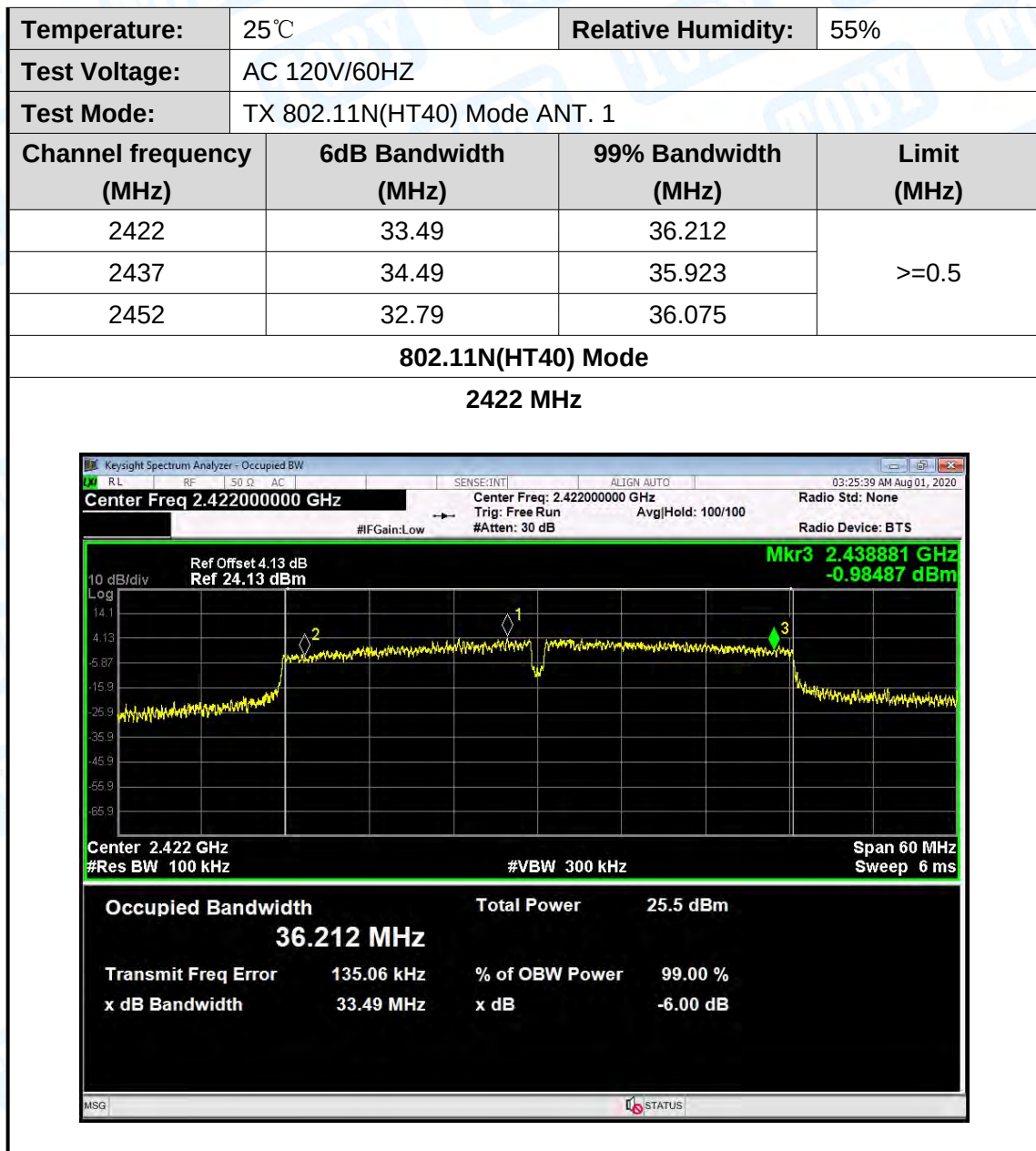
2437 MHz



802.11N(HT40) Mode

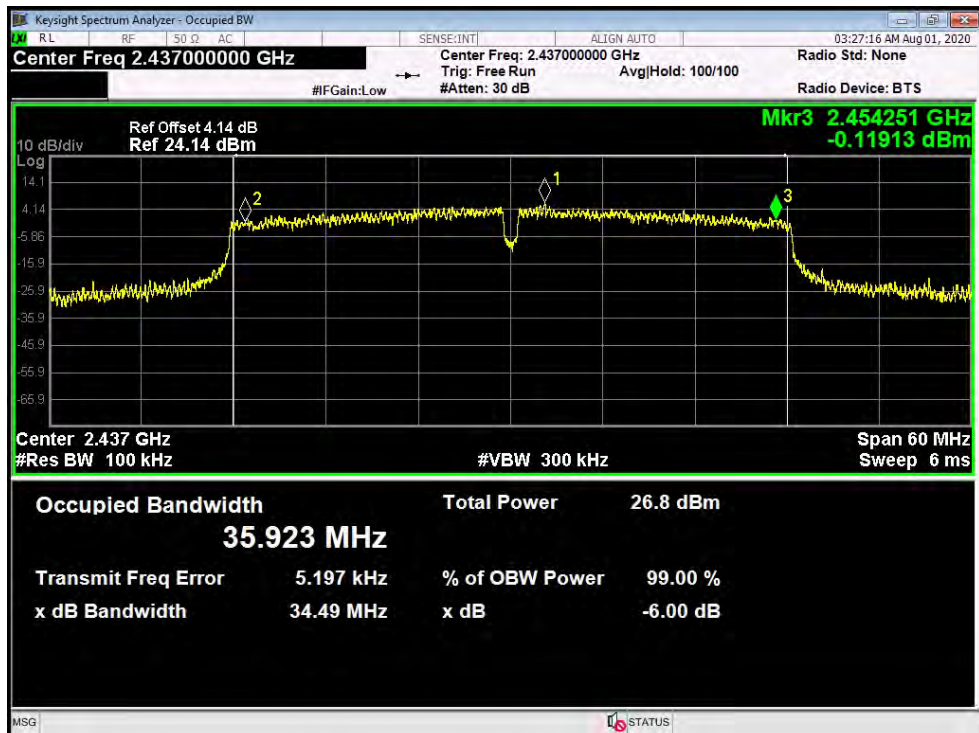
2452 MHz





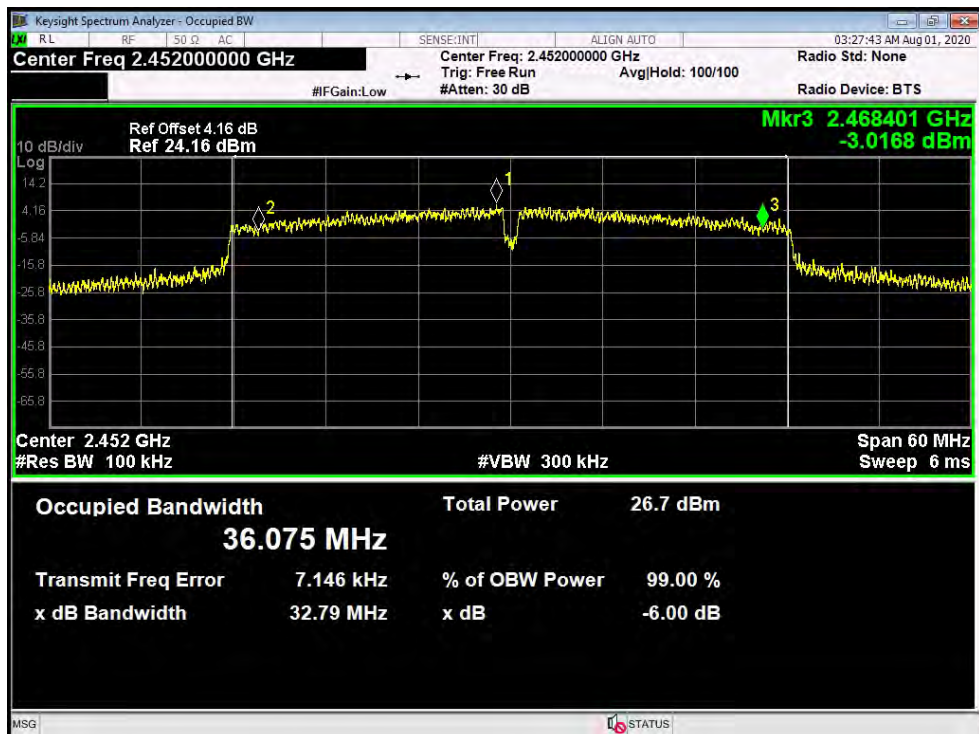
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz

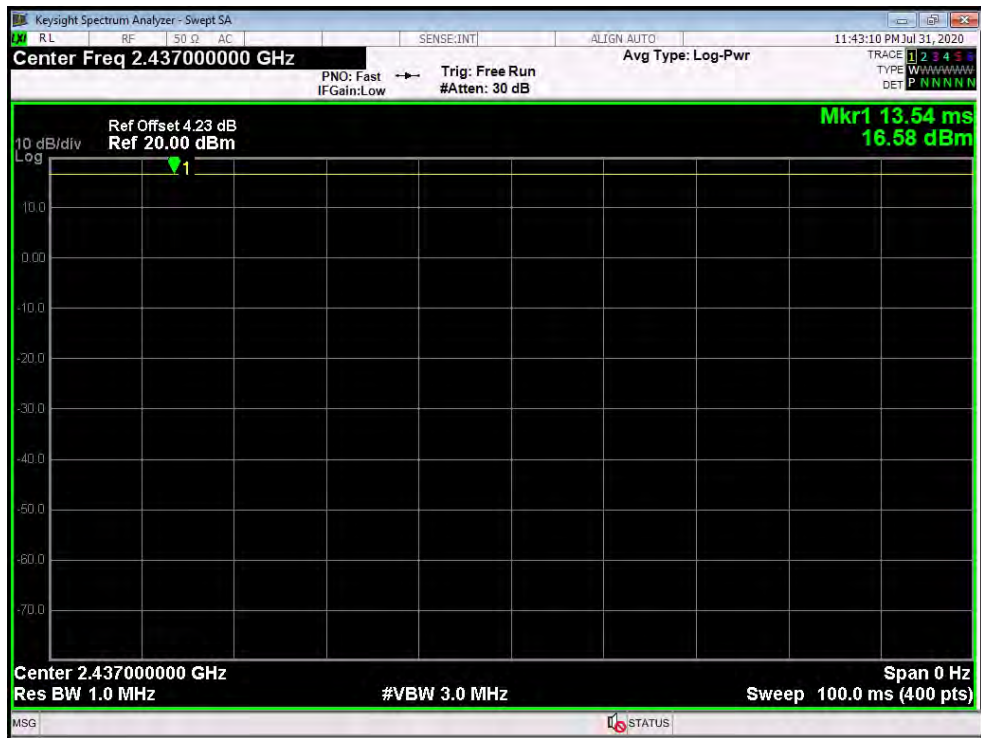


Attachment E-- Peak Output Power Test Data

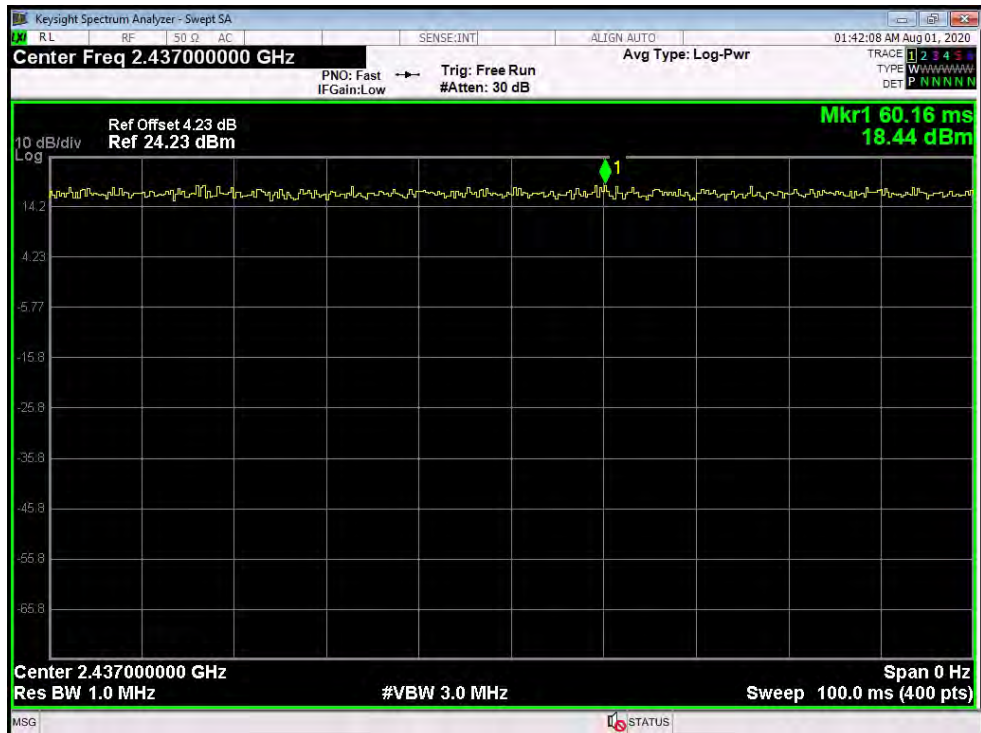
Conducted Power					
802.11b					
Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)
		ANT. 0	ANT. 1	Total	
1	2412 MHz	15.67	16.30	----	30
6	2437 MHz	17.64	16.57	----	
11	2462 MHz	17.08	17.86	----	
802.11g					
Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)
		ANT. 0	ANT. 1	Total	
1	2412 MHz	10.94	11.54	14.26	29.99
6	2437 MHz	12.90	10.11	14.74	
11	2462 MHz	12.49	10.16	14.49	
802.11n(HT20)					
Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)
		ANT. 0	ANT. 1	Total	
1	2412 MHz	11.43	11.06	14.26	29.99
6	2437 MHz	13.76	11.10	15.64	
11	2462 MHz	12.84	11.51	15.23	
802.11n(HT40)					
Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)
		ANT. 0	ANT. 1	Total	
3	2422 MHz	9.96	9.95	12.96	29.99
6	2437 MHz	11.57	9.33	13.60	
9	2452 MHz	11.38	9.06	13.39	
Note: The ANT. A. and ANT. B will transmitting simultaneously for the 802.11g/n(HT20)/n(HT40) Mode, the Directional Gain =Ant. Gain + 10*LOG(N _{ANT}) =6.01 dBi>6 dBi. So P _{out} = P _{limit} -(G _{TX} -6)]=30-0.01=29.99dBm					

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	
802.11n (HT40)	2422	
	2437	
	2452	
Please see below plots		

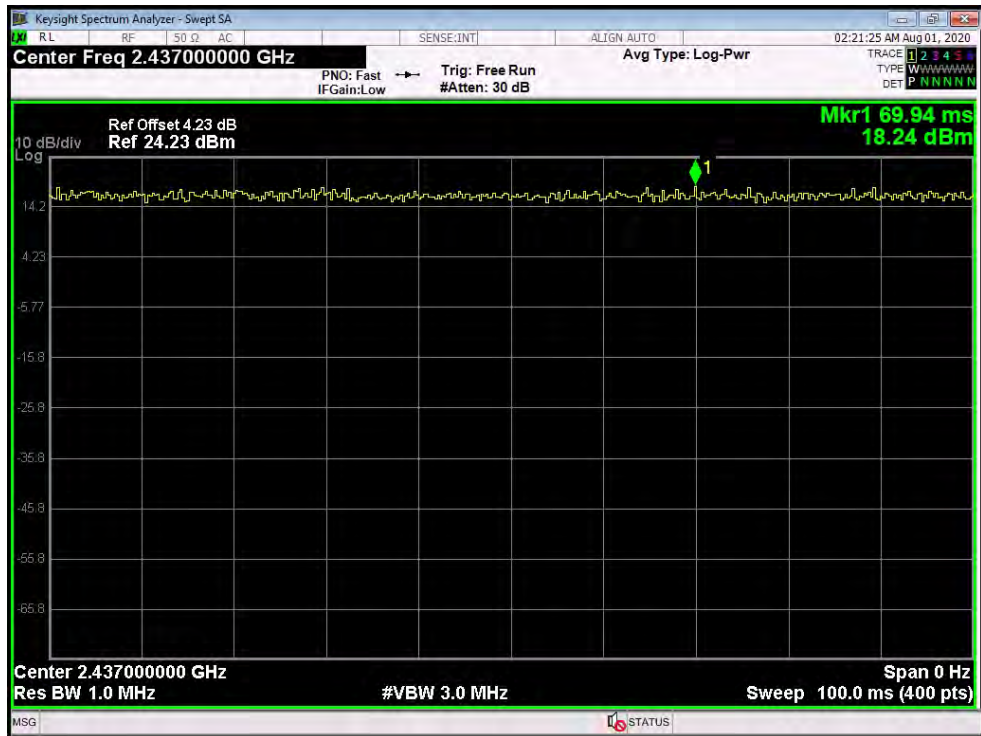
802.11 B Mode 2437 MHz



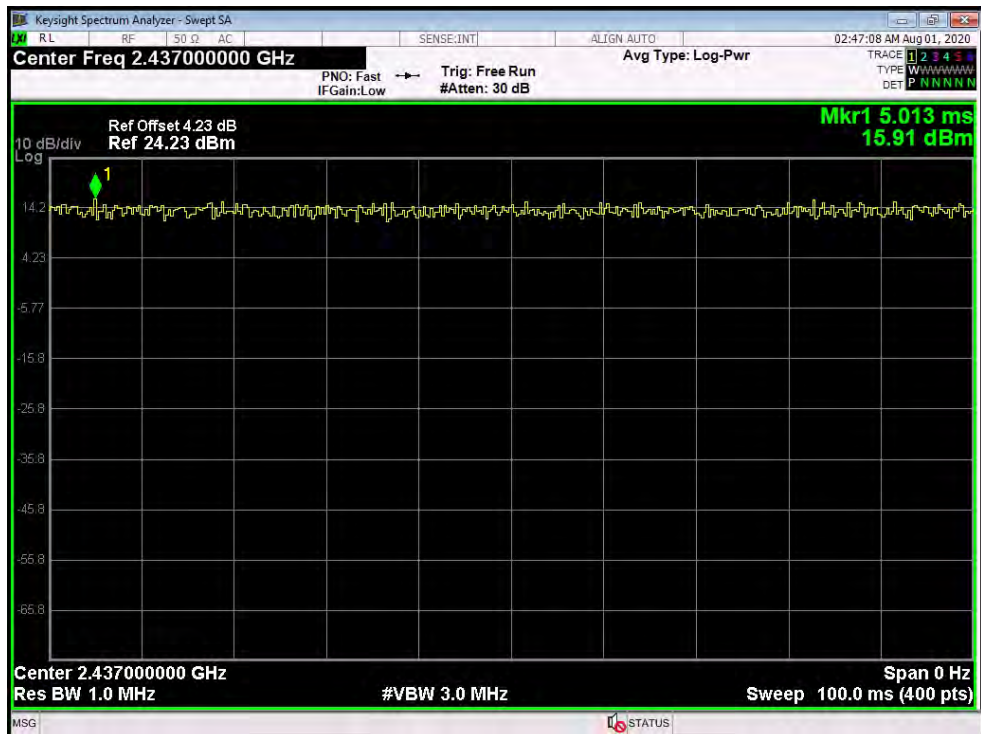
802.11 G Mode 2437 MHz



802.11 N(HT20) Mode 2437 MHz



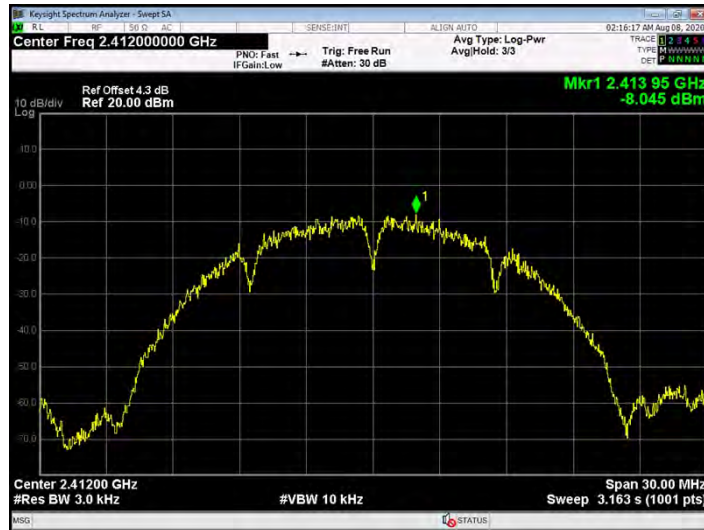
802.11 N(HT40) Mode 2437 MHz



Attachment F-- Power Spectral Density Test Data

802.11b Mode					
Channel	Frequency	Conducted PSD (dBm/3KHz)			Max. Limit (dBm/3KHz)
		Ant. 0	Ant. 1	Total	
1	2412 MHz	-8.045	-3.668	----	8
6	2437 MHz	-2.317	-5.811	----	
11	2462 MHz	-5.917	-4.631	----	
802.11g Mode					
Channel	Frequency	Conducted PSD (dBm/3KHz)			Max. Limit (dBm/3KHz)
		Ant. 0	Ant. 1	Total	
1	2412 MHz	-12.652	-9.204	-7.584	7.99
6	2437 MHz	-12.035	-13.558	-9.720	
11	2462 MHz	-12.117	-14.534	-10.149	
802.11n(HT20) Mode					
Channel	Frequency	Conducted PSD (dBm/3KHz)			Max. Limit (dBm/3KHz)
		Ant. 0	Ant. 1	Total	
1	2412 MHz	-13.924	-13.608	-10.753	7.99
6	2437 MHz	-10.236	-13.446	-8.192	
11	2462 MHz	-11.155	-12.488	-8.760	
802.11n(HT40) Mode					
Channel	Frequency	Conducted PSD (dBm/3KHz)			Max. Limit (dBm/3KHz)
		Ant. 0	Ant. 1	Total	
3	2422 MHz	-15.902	-18.693	-14.067	7.99
6	2437 MHz	-16.245	-18.148	-14.083	
9	2452 MHz	-16.857	-18.491	-14.287	
Note: The ANT. A. and ANT. B will transmitting simultaneously for the 802.11g/n(HT20)/n(HT40) Mode, the T Directional Gain =Ant. Gain + 10*LOG(N _{ANT}) =6.01 dBi>6 dBi. So P _{out} = P _{limit} -(G _{TX} -6)]=8-0.01=7.99dBm					
Test plots please refer to below pages:					

802.11 b 2412 MHz (ANT. 0)



802.11 b 2437 MHz(ANT. 0)



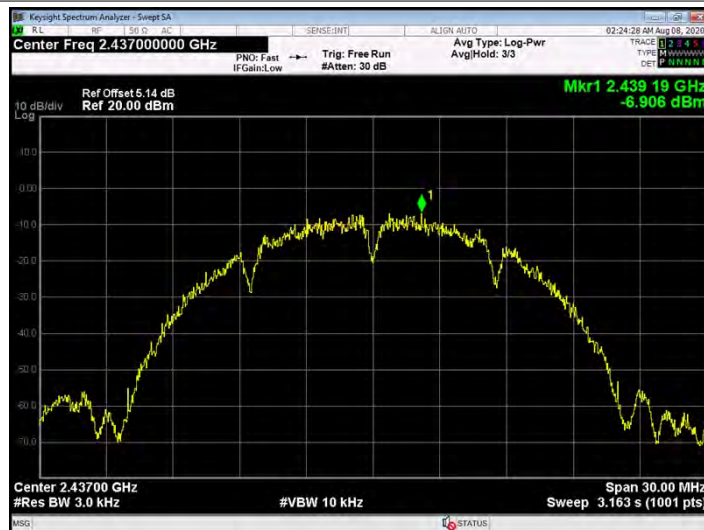
802.11 b 2462MHz(ANT. 0)



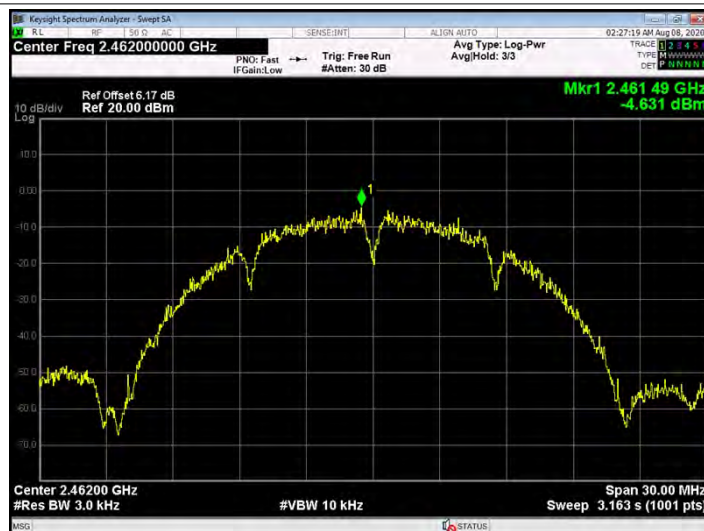
802.11 b 2412 MHz (ANT. 1)



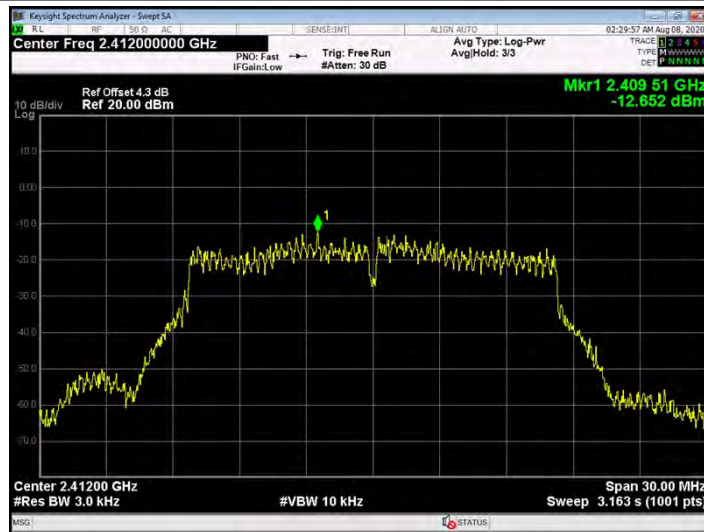
802.11 b 2437 MHz (ANT. 1)



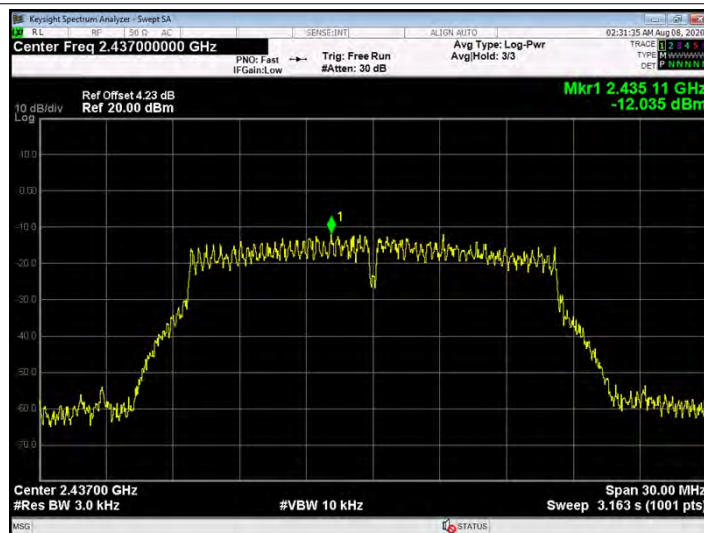
802.11 b 2462 MHz (ANT. 1)



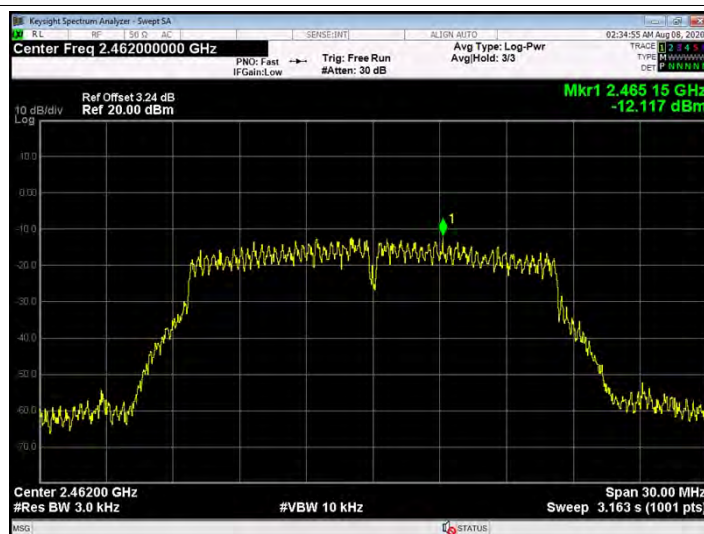
802.11 g 2412 MHz (ANT. 0)



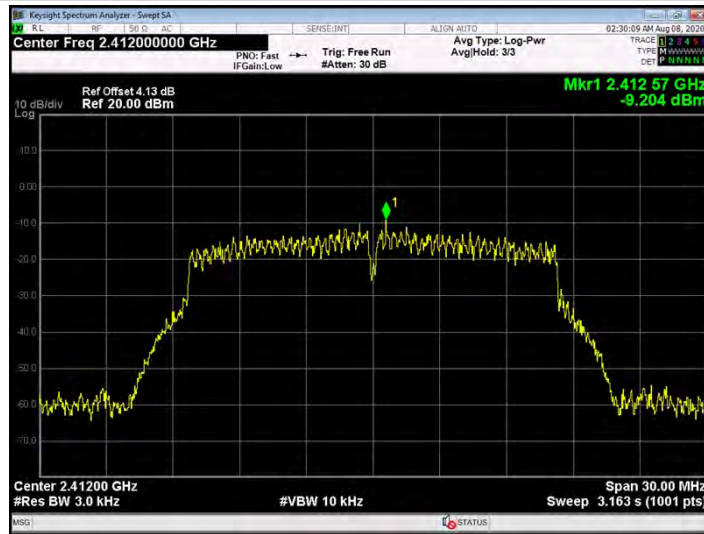
802.11 g 2437 MHz (ANT. A)



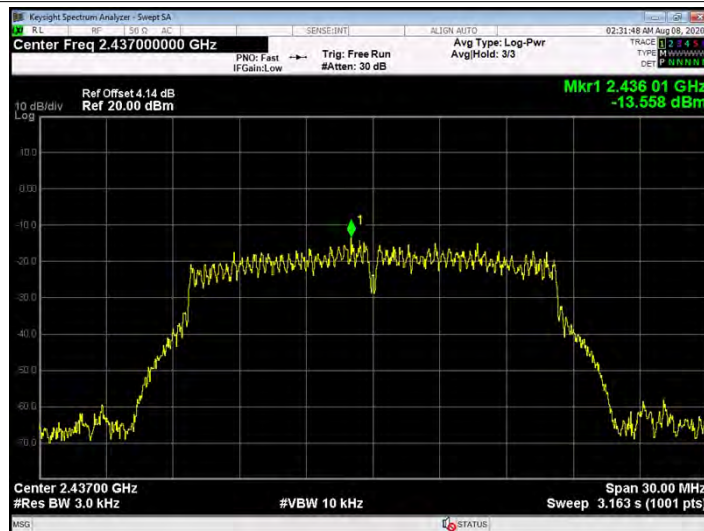
802.11 g 2462MHz (ANT. A)



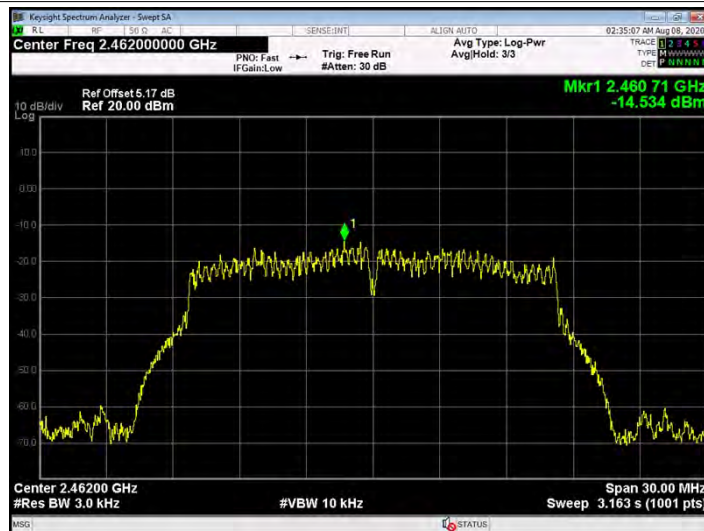
802.11 g 2412 MHz (ANT. 1)



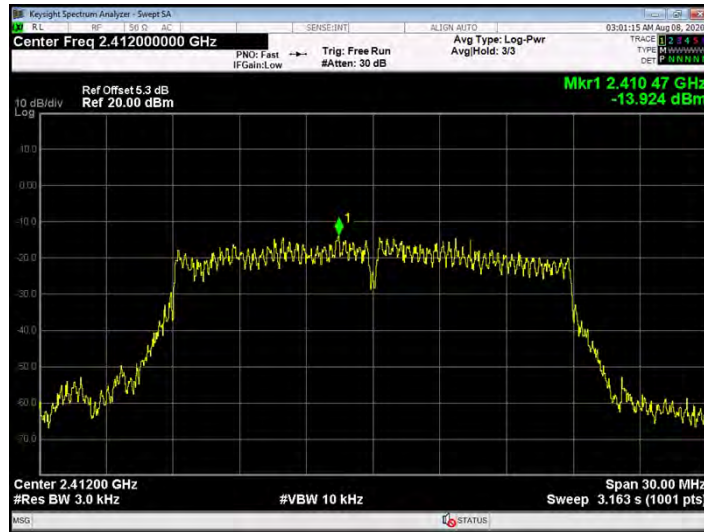
802.11 g 2437 MHz (ANT. 1)



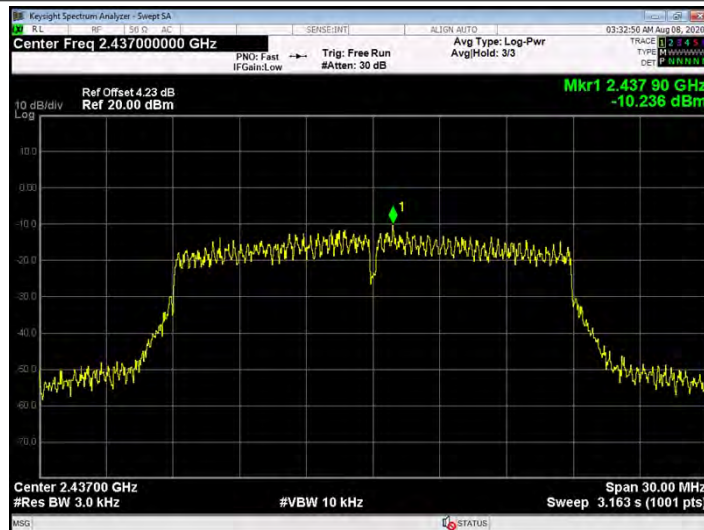
802.11 g 2462 MHz (ANT. 1)



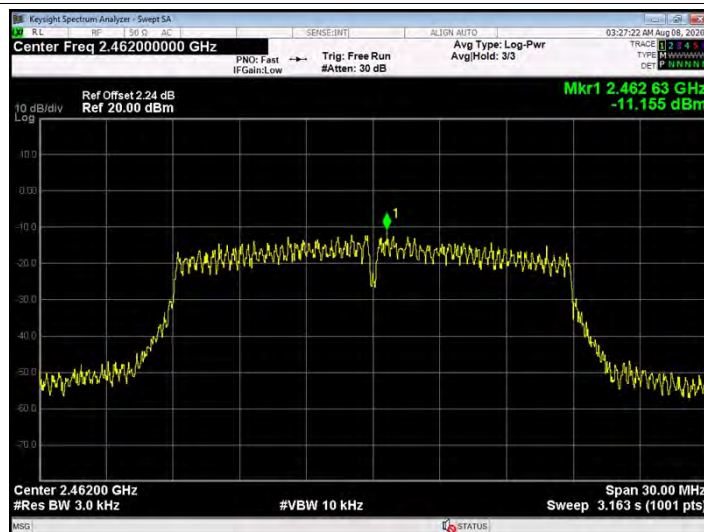
802.11 n(HT20) 2412 MHz (ANT. 0)



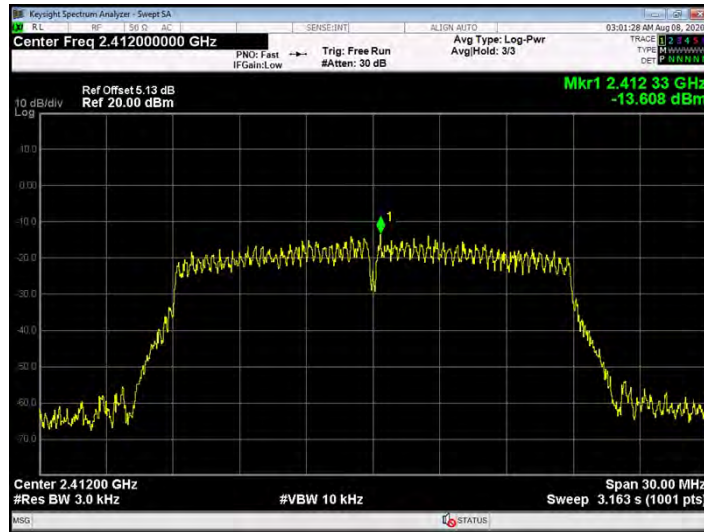
802.11 n(HT20) 2437 MHz (ANT. 0)



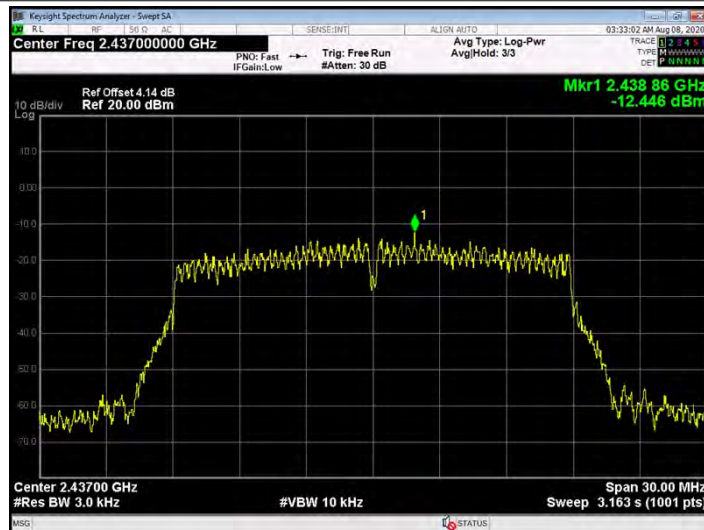
802.11 n(HT20) 2462MHz (ANT. 0)



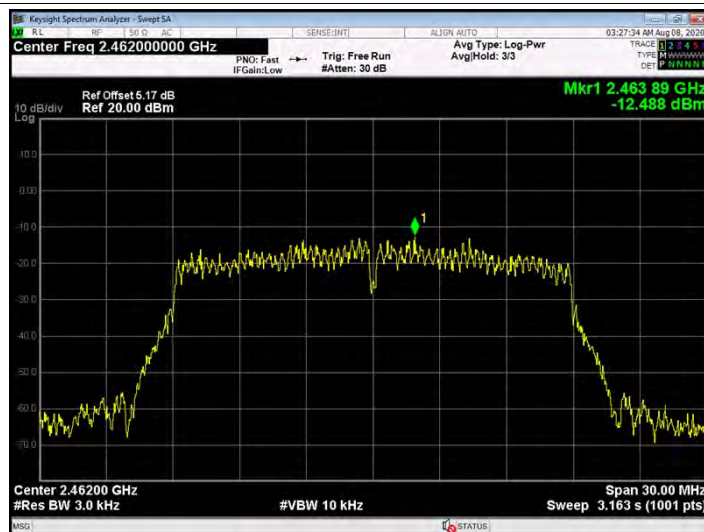
802.11 n(HT20) 2412 MHz (ANT. 1)



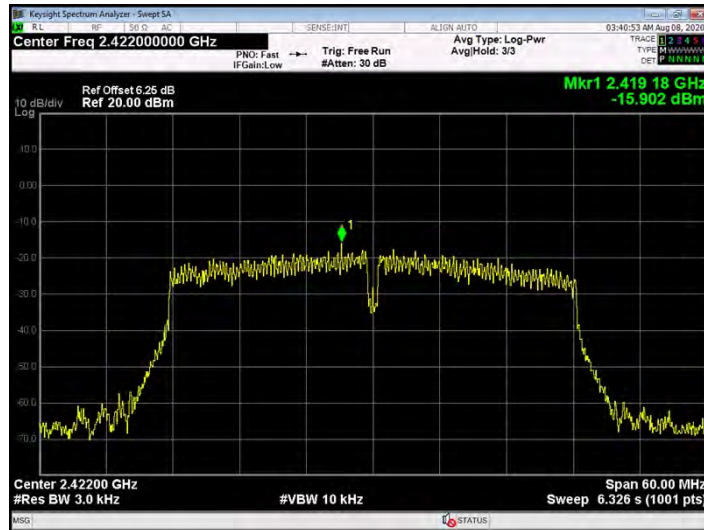
802.11 n(HT20) 2437 MHz (ANT. 1)



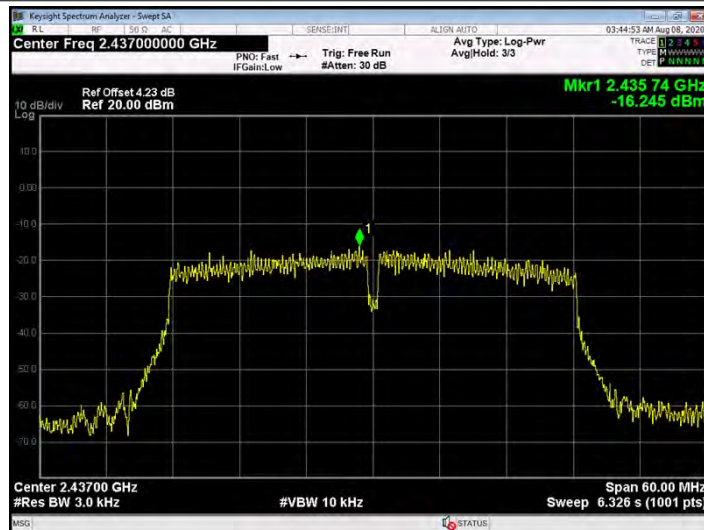
802.11 n(HT20) 2462 MHz (ANT. 1)



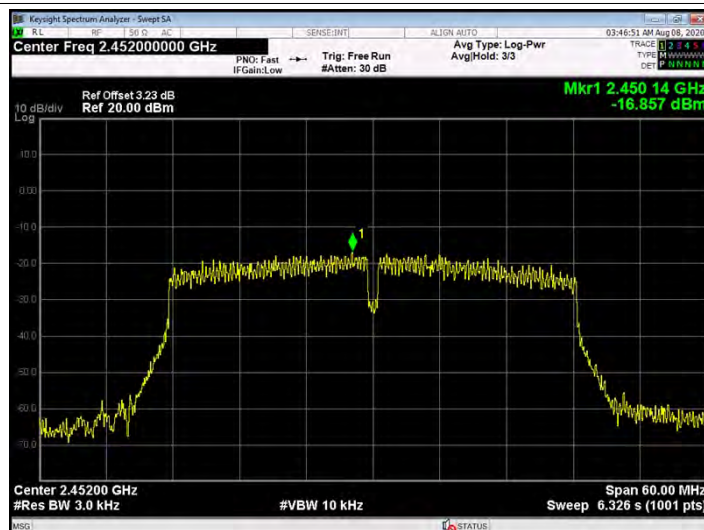
802.11 n(HT40) 2422 MHz (ANT. 0)



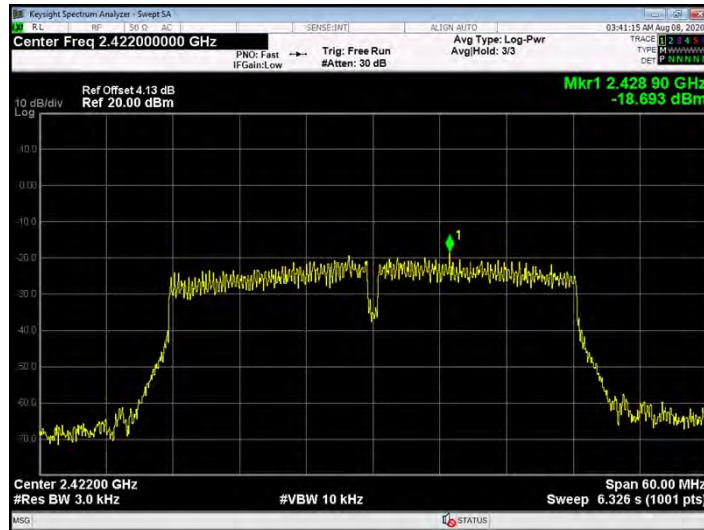
802.11 n(HT40) 2437 MHz (ANT. 0)



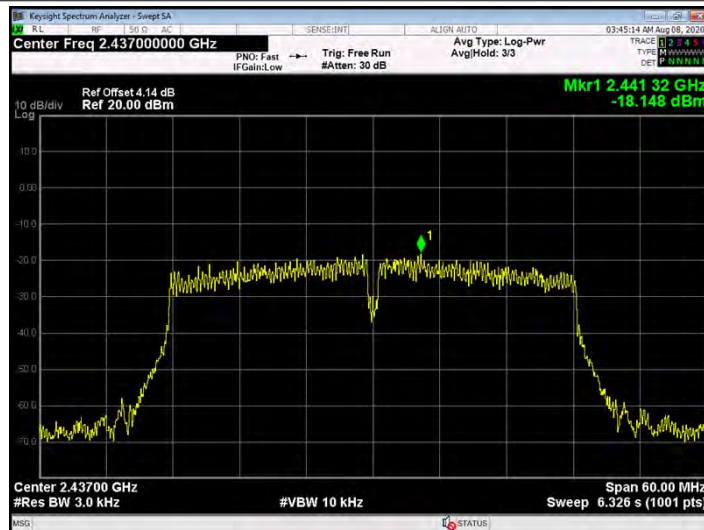
802.11 n(HT40) 2452MHz (ANT. 0)



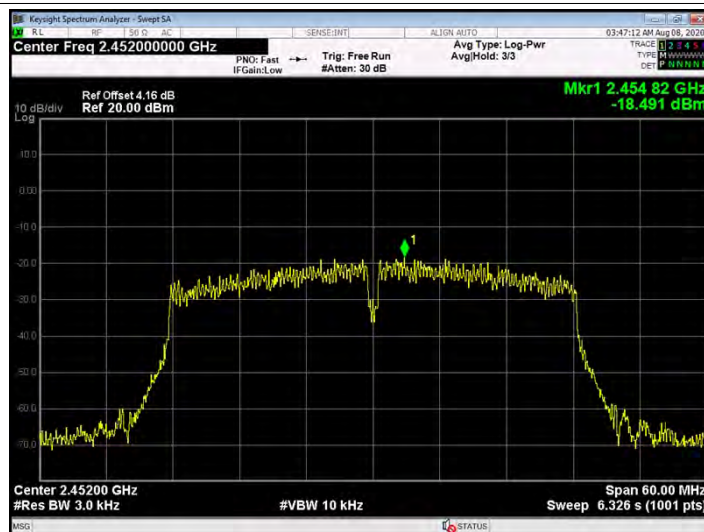
802.11 n(HT40) 2422 MHz (ANT. 1)



802.11 n(HT40) 2437 MHz (ANT. 1)



802.11 n(HT40) 2452MHz (ANT. 1)



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