

## TEST REPORT

**Product** : stabilized camera  
**Trade mark** : FeiyuTech  
**Model/Type reference** : Feiyu pocket, Gimbal pocket  
**Serial Number** : N/A  
**Report Number** : EED32L00387301  
**FCC ID** : 2AHW7-FEYUPOCKET  
**Date of Issue** : Mar. 20, 2020  
**Test Standards** : 47 CFR Part 15 Subpart C  
**Test result** : PASS

Prepared for:

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Prepared by:

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Date:

Mar. 20, 2020

Check No.: 3096393571



## 2 Version

Version No.	Date	Description
00	Mar. 20, 2020	Original

### 3 Test Summary

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
<b>Conducted Peak Output Power</b>	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
<b>6dB Occupied Bandwidth</b>	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
<b>Power Spectral Density</b>	47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013	PASS
<b>Band-edge for RF Conducted Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
<b>RF Conducted Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
<b>Radiated Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample(s) and the sample information are provided by the client.

Model No.: Feiyu pocket, Gimbal pocket

Only the model Feiyu pocket was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference model name.

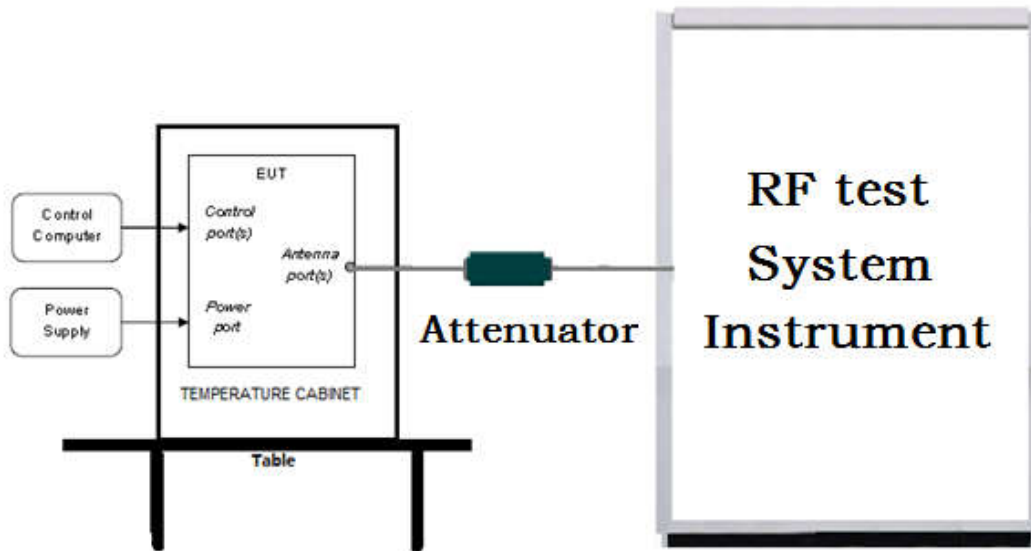
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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Conducted test setup



#### 5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

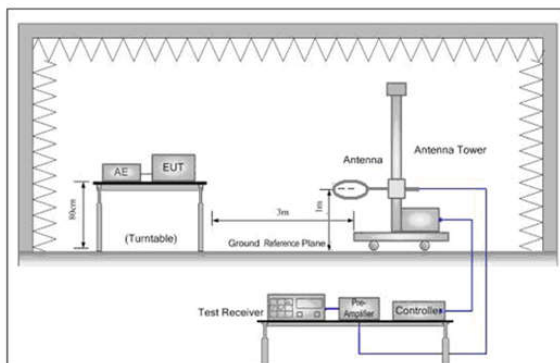


Figure 1. Below 30MHz

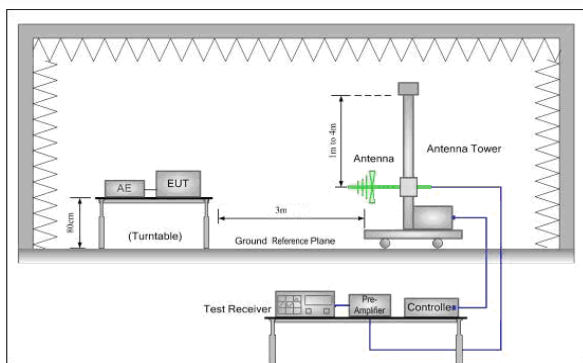


Figure 2. 30MHz to 1GHz

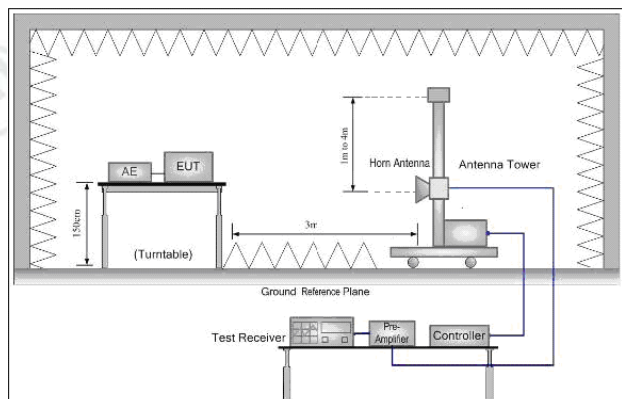
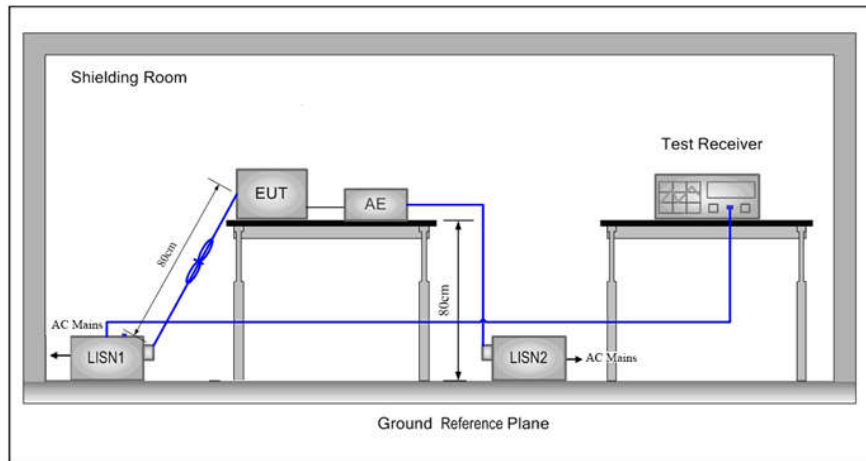


Figure 3. Above 1GHz



### 5.1.3 For Conducted Emissions test setup

#### Conducted Emissions setup



## 5.2 Test Environment

<b>Operating Environment:</b>	
Temperature:	24.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010mbar

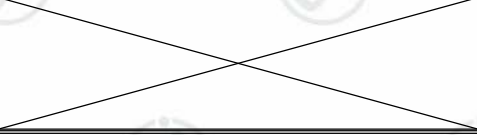
## 5.3 Test Condition

### Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11b/g/n(HT20)	2412MHz ~2462 MHz	Channel 1	Channel 6	Channel11
		2412MHz	2437MHz	2462MHz
802.11n(HT40)	2422MHz ~2452 MHz	Channel 1	Channel 4	Channel7
		2422MHz	2437MHz	2452MHz
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

Test mode:

Pre-scan under all rate at lowest channel 1

<b>Mode</b>	<b>802.11b</b>								
<b>Data Rate</b>	<b>1Mbps</b>	<b>2Mbps</b>	<b>5.5Mbps</b>	<b>11Mbps</b>					
Power(dBm)	8.51	8.53	8.55	8.57					
<b>Mode</b>	<b>802.11g</b>								
<b>Data Rate</b>	<b>6Mbps</b>	<b>9Mbps</b>	<b>12Mbps</b>	<b>18Mbps</b>	<b>24Mbps</b>	<b>36Mbps</b>	<b>48Mbps</b>	<b>54Mbps</b>	
Power(dBm)	7.5	7.48	7.46	7.44	7.42	7.40	7.38	7.36	
<b>Mode</b>	<b>802.11n (HT20)</b>								
<b>Data Rate</b>	<b>6.5Mbps</b>	<b>13Mbps</b>	<b>19.5Mbps</b>	<b>26Mbps</b>	<b>39Mbps</b>	<b>52Mbps</b>	<b>58.5Mbps</b>	<b>65Mbps</b>	
Power(dBm)	6.97	6.95	6.93	6.91	6.89	6.87	6.85	6.83	
<b>Mode</b>	<b>802.11n (HT40)</b>								
<b>Data Rate</b>	<b>13.5Mbps</b>	<b>27Mbps</b>	<b>40.5Mbps</b>	<b>54Mbps</b>	<b>81Mbps</b>	<b>108Mbps</b>	<b>121.5Mbps</b>	<b>135Mbps</b>	
Power(dBm)	7.93	7.91	7.89	7.87	7.85	7.83	7.81	7.79	

Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).

## 6 General Information

### 6.1 Client Information

Applicant:	Guilin Feiyu Technology Incorporated Company
Address of Applicant:	3rd Floor, Building B, Guilin Electric Valley, Innovation Building, Information Industry Park , Chaoyang Road, Qixing District, Guilin, China
Manufacturer:	Guilin Feiyu Technology Incorporated Company
Address of Manufacturer:	3rd Floor, Building B, Guilin Electric Valley, Innovation Building, Information Industry Park , Chaoyang Road, Qixing District, Guilin, China
Factory:	Guilin Feiyu Technology Incorporated Company
Address of Factory :	3rd Floor, Building B, Guilin Electric Valley, Innovation Building, Information Industry Park , Chaoyang Road, Qixing District, Guilin, China

### 6.2 General Description of EUT

Product Name:	stabilized camera
Model No.(EUT):	Feiyu pocket, Gimbal pocket
Test Model No.:	Feiyu pocket
Trade Mark:	FeiyuTech
EUT Supports Radios application:	IEEE 802.11 b/g/n(HT20)(HT40): 2412MHz to 2462MHz
Power Supply:	Battery :7.7V,875mAh
Sample Received Date:	Dec. 23, 2019
Sample tested Date:	Dec. 23, 2019 to Jan. 13, 2020

### 6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Test Power Grade:	Reference Table
Test Software of EUT:	Putty
Antenna Type and Gain:	Type: PIFA antenna Gain:2 dBi
Test Voltage:	DC 7.7V



Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency		
1	2422MHz	4	2437MHz	7	2452MHz		
2	2427MHz	5	2442MHz				
3	2432MHz	6	2447MHz				

## 6.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Notebook	DELL	DELL 3490	FCC ID and DOC	DELL

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

## 6.6 Deviation from Standards

None.

## 6.7 Abnormalities from Standard Conditions

None.

## 6.8 Other Information Requested by the Customer

None.

### 6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

## 7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-01-2019 02-17-2020	02-29-2020 02-16-2021
Signal Generator	Keysight	N5182B	MY53051549	03-01-2019 02-17-2020	02-29-2020 02-16-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	07-26-2019	07-25-2020
High-pass filter	Sinoscite	FL3CX03WG18N M12-0398-002	---	---	---
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	---	---
DC Power	Keysight	E3642A	MY56376072	03-01-2019 02-17-2020	02-29-2020 02-16-2021
PC-1	Lenovo	R4960d	---	---	---
BT&WI-FI Automatic control	R&S	OSP120	101374	03-01-2019 02-17-2020	02-29-2020 02-16-2021
RF control unit	JS Tonscend	JS0806-2	158060006	03-01-2019 02-17-2020	02-29-2020 02-16-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	---	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	05-20-2019	05-19-2020
Temperature/ Humidity Indicator	Defu	TH128	/	06-14-2019	06-13-2020
LISN	R&S	ENV216	100098	05-08-2019	05-07-2020
Barometer	changchun	DYM3	1188	06-20-2019	06-19-2020

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-26-2019	07-25-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESC17	100938-003	10-21-2019	10-20-2020
Multi device Controller	matur	NCD/070/107 11112	---	---	---
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	07-26-2019	07-25-2020
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	06-19-2019	06-18-2020
Receiver	Keysight	N9038A	MY57290136	03-27-2019	03-26-2020
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-27-2019	03-26-2020
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-27-2019	03-26-2020
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-22-2019	05-21-2020
Preamplifier	EMCI	EMC001330	980563	05-08-2019	05-07-2020
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-09-2020	01-08-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-30-2019	04-29-2020
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---



## 8 Radio Technical Requirements Specification

### Reference documents for testing:

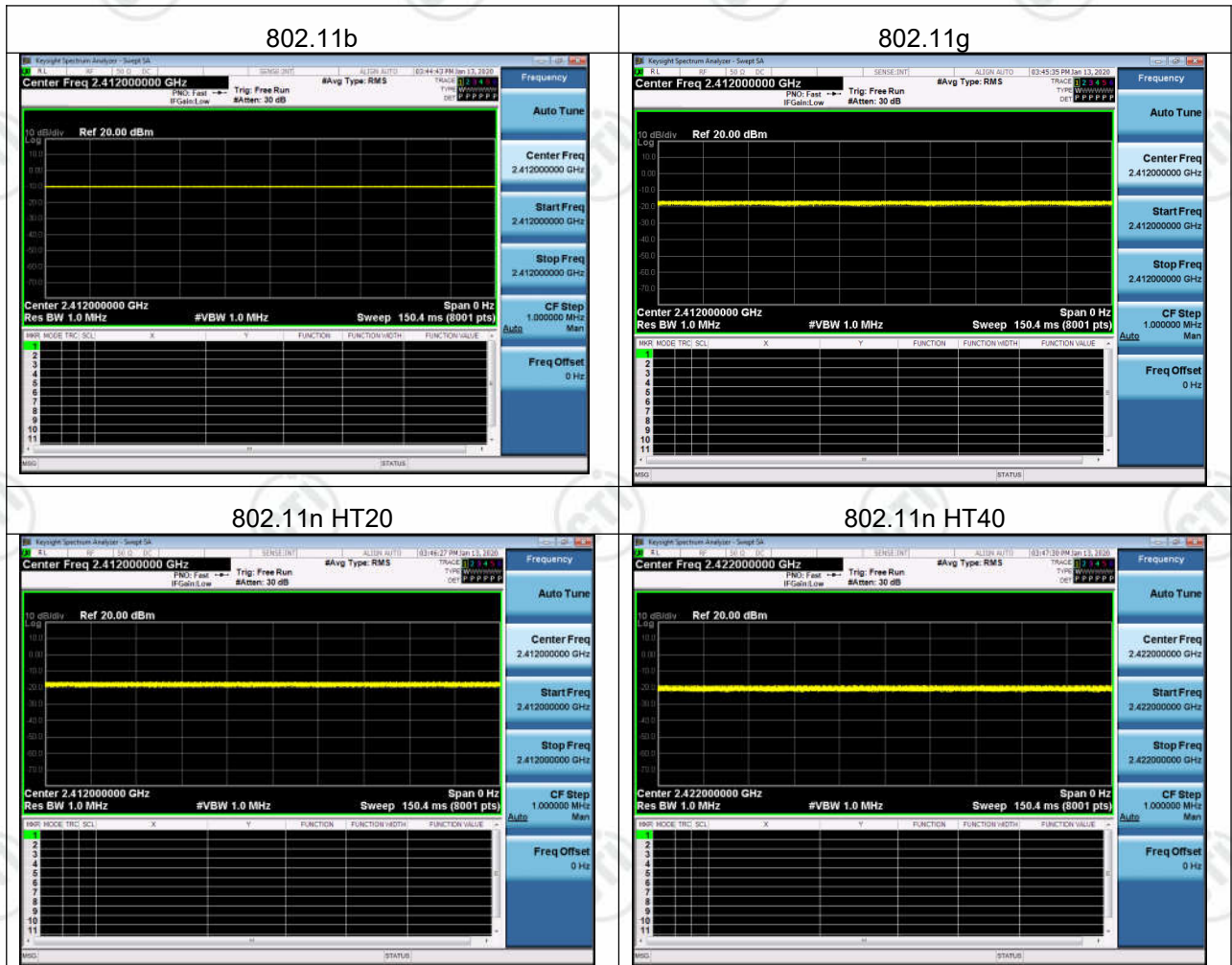
No.	Identity	Document Title
1	FCC Part 15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

### Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)

**EUT DUTY CYCLE**

Duty Cycle			
Configuration	TX ON(ms)	TX ALL(ms)	Duty Cycle(%)
802.11b	1.000	1.000	100.00%
802.11g	1.000	1.000	100.00%
802.11n HT20	1.000	1.000	100.00%
802.11n HT40	1.000	1.000	100.00%



## Appendix A): Conducted Peak Output Power

### Test Limit

According to §15.247(b)(3)

#### Peak output power :

For systems using digital modulation in the 2400-2483.5 MHz: 1 Watt(30 dBm), base on the use of antennas with directional gain not exceed 6 dBi. If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	<input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 30dBm <input type="checkbox"/> Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)] <input type="checkbox"/> Point-to-point operation :
-------	---

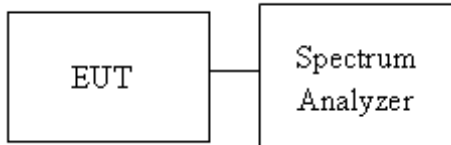
Average output power : For reporting purposes only.

### Test Procedure

Test method Refer as KDB 558074 D01.

1. The EUT RF output connected to spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT.
3. Spectrum analyzer settings are as follows:
  - a) Set the RBW = 1 MHz.
  - b) Set the VBW $\geq$ [3 $\times$ RBW].
  - c) Set the span $\geq$ [1.5 $\times$ DTS bandwidth].
  - d) Detector = peak.
  - e) Sweep time = auto couple.
  - f) Trace mode = max hold.
  - g) Allow trace to fully stabilize.
  - h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges .
4. Measure and record the result in the test report.

**Test Setup**



**Result Table**

Mode	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	LCH	8.57	PASS
11B	MCH	8.83	PASS
11B	HCH	8.61	PASS
11G	LCH	7.5	PASS
11G	MCH	7.29	PASS
11G	HCH	7.28	PASS
11N20SISO	LCH	6.97	PASS
11N20SISO	MCH	7.24	PASS
11N20SISO	HCH	7.27	PASS
11N40SISO	LCH	7.93	PASS
11N40SISO	MCH	7.59	PASS
11N40SISO	HCH	7.04	PASS



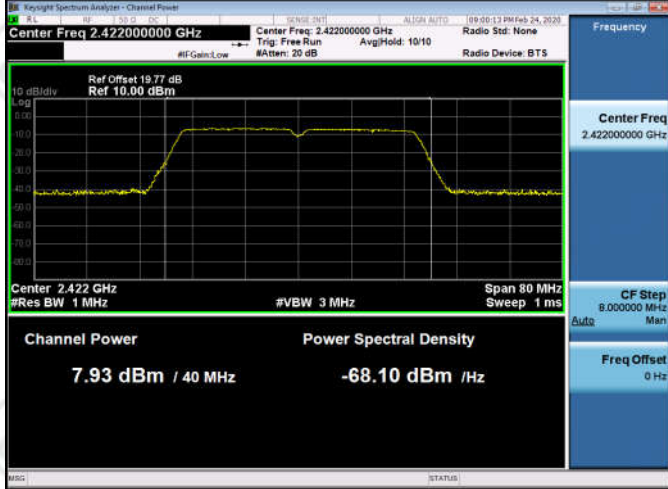
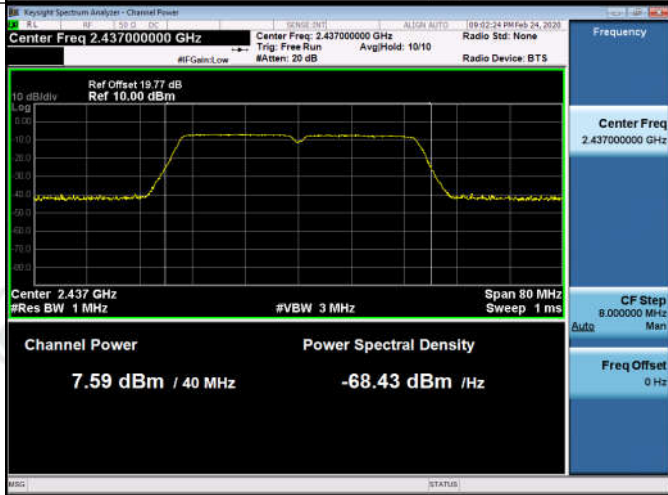
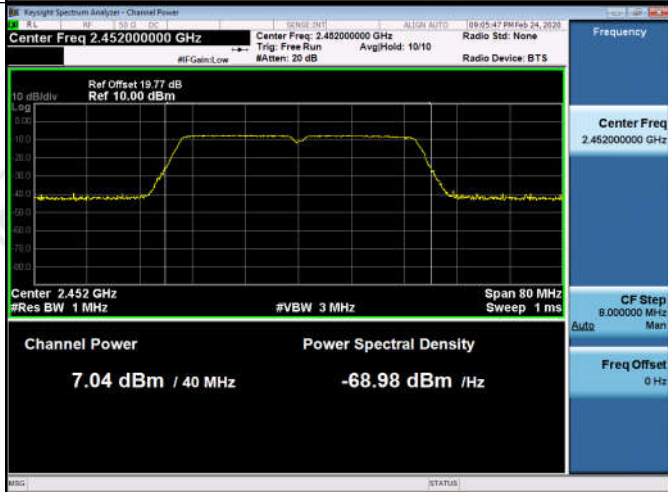
**Test Graph**





<p>11G/LCH</p>	 <p>KeySight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.412000000 GHz    Center Freq: 2.412000000 GHz    Radio Std: None</p> <p>Ref Offset 19.6 dB    Ref 20.00 dBm</p> <p>Channel Power: 7.50 dBm / 20 MHz    Power Spectral Density: -65.51 dBm / Hz</p>
<p>11G/MCH</p>	 <p>KeySight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz    Center Freq: 2.437000000 GHz    Radio Std: None</p> <p>Ref Offset 19.77 dB    Ref 20.00 dBm</p> <p>Channel Power: 7.29 dBm / 20 MHz    Power Spectral Density: -65.72 dBm / Hz</p>
<p>11G/HCH</p>	 <p>KeySight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.462000000 GHz    Center Freq: 2.462000000 GHz    Radio Std: None</p> <p>Ref Offset 19.77 dB    Ref 10.00 dBm</p> <p>Channel Power: 7.28 dBm / 20 MHz    Power Spectral Density: -65.73 dBm / Hz</p>

<p>11N20SISO/LCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 19.6 dB Ref 10.00 dBm</p> <p>Channel Power: 6.97 dBm / 20 MHz</p> <p>Power Spectral Density: -66.04 dBm / Hz</p> <p>Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p>
<p>11N20SISO/MCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Channel Power: 7.24 dBm / 20 MHz</p> <p>Power Spectral Density: -65.77 dBm / Hz</p> <p>Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p>
<p>11N20SISO/HCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Channel Power: 7.27 dBm / 20 MHz</p> <p>Power Spectral Density: -65.74 dBm / Hz</p> <p>Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p>

<p>11N40SISO/LCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.42200000 GHz Center Freq: 2.422000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Channel Power: 7.93 dBm / 40 MHz</p> <p>Power Spectral Density: -68.10 dBm / Hz</p> <p>Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms</p>
<p>11N40SISO/MCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.43700000 GHz Center Freq: 2.437000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Channel Power: 7.59 dBm / 40 MHz</p> <p>Power Spectral Density: -68.43 dBm / Hz</p> <p>Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms</p>
<p>11N40SISO/HCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.45200000 GHz Center Freq: 2.452000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Channel Power: 7.04 dBm / 40 MHz</p> <p>Power Spectral Density: -68.98 dBm / Hz</p> <p>Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms</p>

## Appendix B): 6dB Occupied Bandwidth

### Test Limit

According to §15.247(a)(2),

### 6 dB Bandwidth :

Limit	Shall be at least 500kHz
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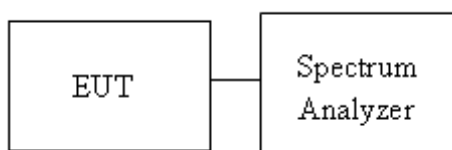
Occupied Bandwidth(99%) : For reporting purposes only.

### Test Procedure

Test method Refer as KDB 558074 D01 and ANSI C63.10: 2013 clause 6.9.2,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 100KHz , VBW = 300KHz and Detector = Peak, to measurement 6dB Bandwidth
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

### Test Setup





**Result Table**

Mode	Channel	6dB Bandwidth [MHz]	Verdict
11B	LCH	9.074	PASS
11B	MCH	9.074	PASS
11B	HCH	9.070	PASS
11G	LCH	16.56	PASS
11G	MCH	16.57	PASS
11G	HCH	16.56	PASS
11N20SISO	LCH	17.78	PASS
11N20SISO	MCH	17.77	PASS
11N20SISO	HCH	17.73	PASS
11N40SISO	LCH	36.45	PASS
11N40SISO	MCH	36.48	PASS
11N40SISO	HCH	36.44	PASS

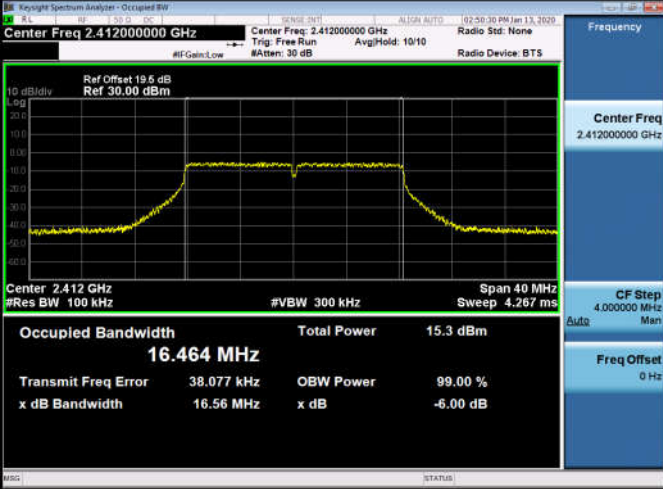
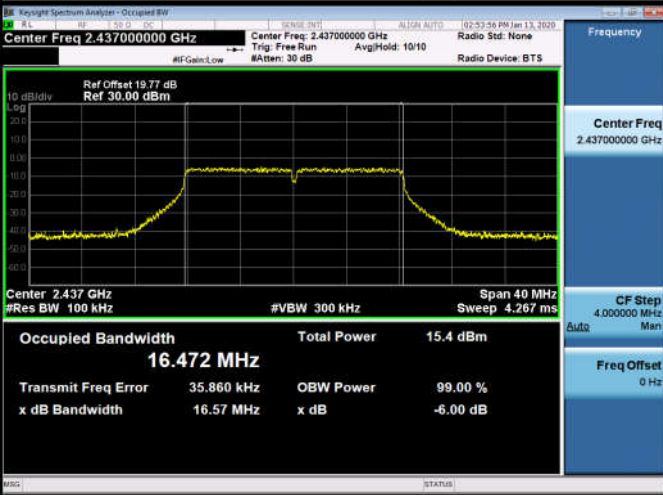
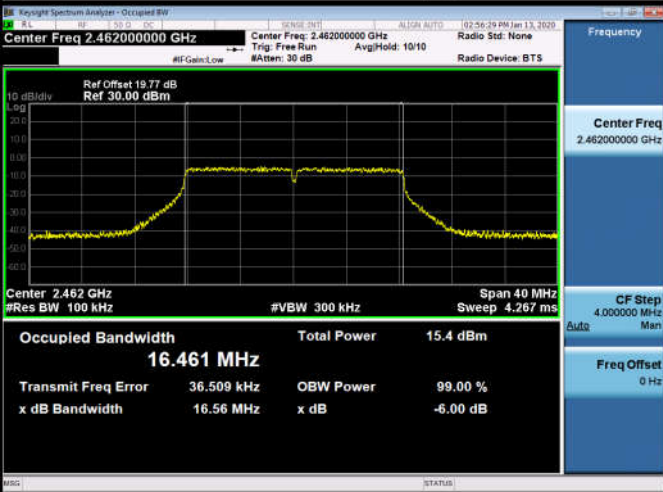
Mode	Channel	99% OBW [MHz]	Verdict
11B	LCH	13.612	PASS
11B	MCH	13.604	PASS
11B	HCH	13.526	PASS
11G	LCH	16.618	PASS
11G	MCH	16.599	PASS
11G	HCH	16.604	PASS
11N20SISO	LCH	17.736	PASS
11N20SISO	MCH	17.742	PASS
11N20SISO	HCH	17.727	PASS
11N40SISO	LCH	36.183	PASS
11N40SISO	MCH	36.238	PASS
11N40SISO	HCH	36.171	PASS

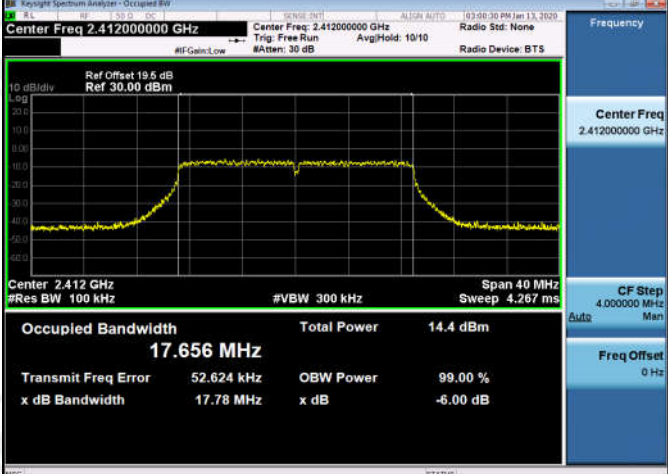
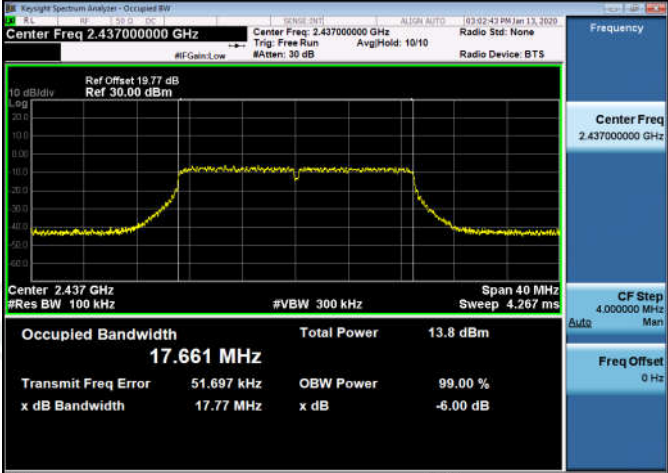
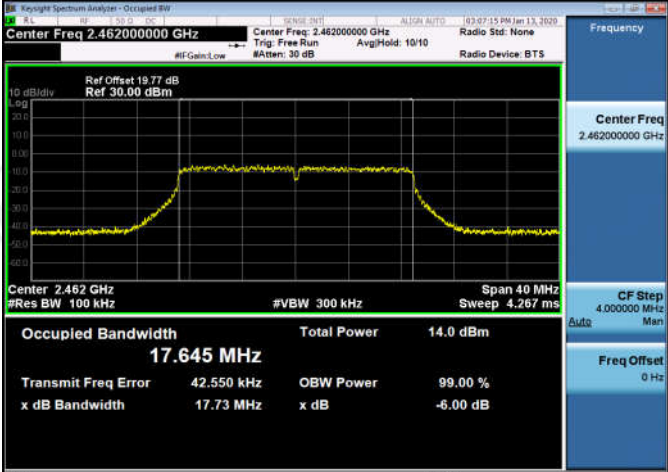


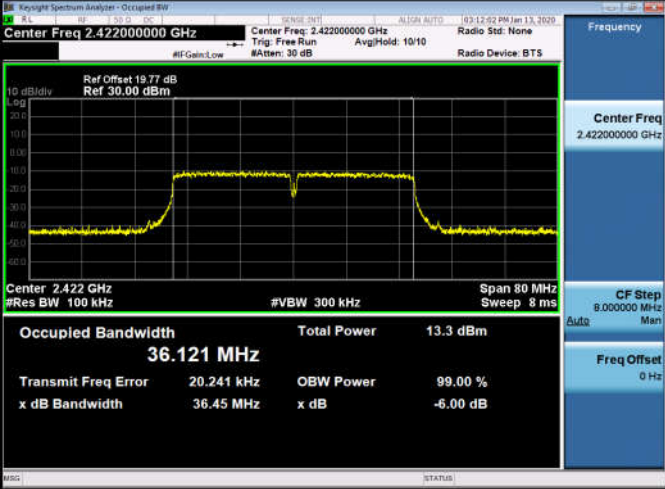
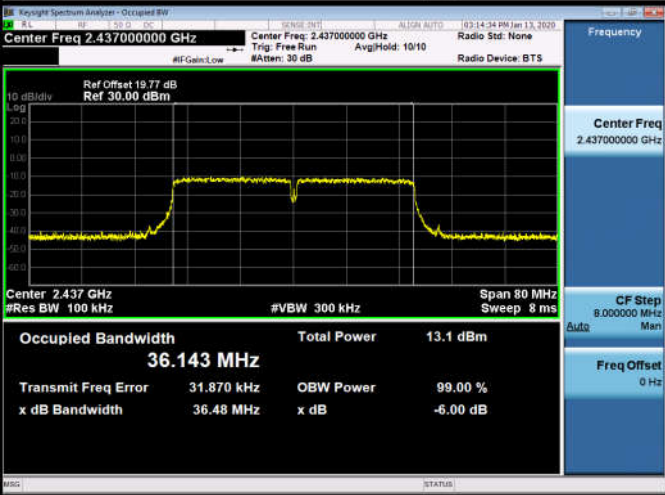
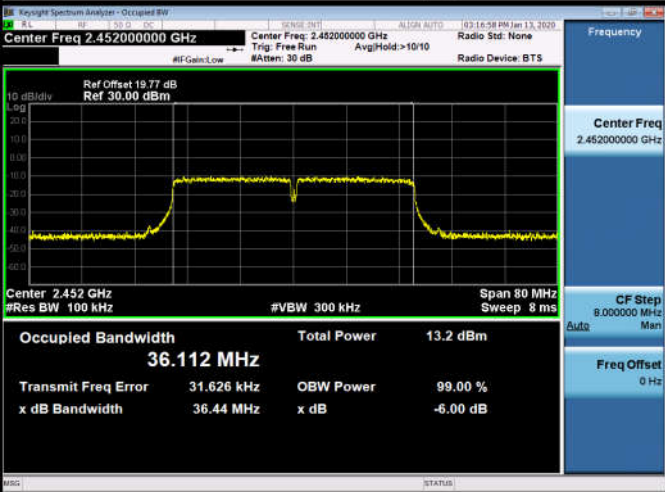
**Test Graph**

**6dB Bandwidth**



<p>11G/LCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Radio Std: None</p> <p>Ref Offset 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 4.267 ms</p> <p>Occupied Bandwidth 16.464 MHz Total Power 15.3 dBm</p> <p>Transmit Freq Error 38.077 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.56 MHz x dB -6.00 dB</p>
<p>11G/MCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 4.267 ms</p> <p>Occupied Bandwidth 16.472 MHz Total Power 15.4 dBm</p> <p>Transmit Freq Error 35.860 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.57 MHz x dB -6.00 dB</p>
<p>11G/HCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 4.267 ms</p> <p>Occupied Bandwidth 16.461 MHz Total Power 15.4 dBm</p> <p>Transmit Freq Error 36.509 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.56 MHz x dB -6.00 dB</p>

<p>11N20SISO/LCH</p>	 <p>Center Freq 2.412000000 GHz</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>17.656 MHz</b></p> <p>Total Power 14.4 dBm</p> <p>Transmit Freq Error 52.624 kHz</p> <p>x dB Bandwidth 17.78 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>
<p>11N20SISO/MCH</p>	 <p>Center Freq 2.437000000 GHz</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>17.661 MHz</b></p> <p>Total Power 13.8 dBm</p> <p>Transmit Freq Error 51.697 kHz</p> <p>x dB Bandwidth 17.77 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>
<p>11N20SISO/HCH</p>	 <p>Center Freq 2.462000000 GHz</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth <b>17.645 MHz</b></p> <p>Total Power 14.0 dBm</p> <p>Transmit Freq Error 42.550 kHz</p> <p>x dB Bandwidth 17.73 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>

<p>11N40SISO/LCH</p>	 <p>Center Freq 2.42200000 GHz</p> <p>Center Freq: 2.42200000 GHz</p> <p>Ref Offset 19.77 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.422 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 80 MHz</p> <p>Sweep 8 ms</p> <p>Occupied Bandwidth <b>36.121 MHz</b></p> <p>Total Power 13.3 dBm</p> <p>Transmit Freq Error 20.241 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 36.45 MHz</p> <p>x dB -6.00 dB</p>
<p>11N40SISO/MCH</p>	 <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz</p> <p>Ref Offset 19.77 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 80 MHz</p> <p>Sweep 8 ms</p> <p>Occupied Bandwidth <b>36.143 MHz</b></p> <p>Total Power 13.1 dBm</p> <p>Transmit Freq Error 31.870 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 36.48 MHz</p> <p>x dB -6.00 dB</p>
<p>11N40SISO/HCH</p>	 <p>Center Freq 2.45200000 GHz</p> <p>Center Freq: 2.45200000 GHz</p> <p>Ref Offset 19.77 dB</p> <p>Ref 30.00 dBm</p> <p>Center 2.452 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 80 MHz</p> <p>Sweep 8 ms</p> <p>Occupied Bandwidth <b>36.112 MHz</b></p> <p>Total Power 13.2 dBm</p> <p>Transmit Freq Error 31.626 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 36.44 MHz</p> <p>x dB -6.00 dB</p>



99%OBW

Graphs	
11B/LCH	<p>Keygraph Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz ALIGN AUTO 10:25:41 PM Jan 13, 2020</p> <p>Ref Offset 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 13.612 MHz</b> Total Power 20.5 dBm</p> <p>Transmit Freq Error 35.221 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.107 MHz x dB -6.00 dB</p>
11B/MCH	<p>Keygraph Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz ALIGN AUTO 10:26:17 PM Jan 13, 2020</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 13.604 MHz</b> Total Power 20.0 dBm</p> <p>Transmit Freq Error 27.454 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.117 MHz x dB -6.00 dB</p>
11B/HCH	<p>Keygraph Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz ALIGN AUTO 10:26:50 PM Jan 13, 2020</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 13.526 MHz</b> Total Power 19.6 dBm</p> <p>Transmit Freq Error -17.439 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.098 MHz x dB -6.00 dB</p>



<p>11G/LCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz Center Freq: 2.412000000 GHz Radio Std: None</p> <p>Ref Offset 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 16.618 MHz Total Power 16.0 dBm</p> <p>Transmit Freq Error -19.132 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.53 MHz x dB -6.00 dB</p>
<p>11G/MCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz Center Freq: 2.437000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 16.599 MHz Total Power 15.9 dBm</p> <p>Transmit Freq Error -16.238 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.52 MHz x dB -6.00 dB</p>
<p>11G/HCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz Center Freq: 2.462000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 16.604 MHz Total Power 15.4 dBm</p> <p>Transmit Freq Error -26.135 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.51 MHz x dB -6.00 dB</p>

<p>11N20SISO/LCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz Center Freq: 2.412000000 GHz Radio Std: None</p> <p>Ref Offset 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.736 MHz Total Power 15.9 dBm</p> <p>Transmit Freq Error 18.579 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 17.66 MHz x dB -6.00 dB</p>
<p>11N20SISO/MCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz Center Freq: 2.437000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.742 MHz Total Power 15.6 dBm</p> <p>Transmit Freq Error 17.966 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 17.65 MHz x dB -6.00 dB</p>
<p>11N20SISO/HCH</p>	 <p>Keyight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz Center Freq: 2.462000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz Span 40 MHz</p> <p>#Res BW 200 kHz #VBW 300 kHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.727 MHz Total Power 15.0 dBm</p> <p>Transmit Freq Error 13.551 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 17.64 MHz x dB -6.00 dB</p>

<p>11N40SISO/LCH</p>	<p>Center Freq 2.422000000 GHz</p> <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 390 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth <b>36.183 MHz</b></p> <p>Total Power 16.0 dBm</p> <p>Transmit Freq Error 48.572 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 36.25 MHz</p> <p>x dB -6.00 dB</p>
<p>11N40SISO/MCH</p>	<p>Center Freq 2.437000000 GHz</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 390 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth <b>36.238 MHz</b></p> <p>Total Power 15.7 dBm</p> <p>Transmit Freq Error 69.430 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 36.31 MHz</p> <p>x dB -6.00 dB</p>
<p>11N40SISO/HCH</p>	<p>Center Freq 2.452000000 GHz</p> <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.452 GHz #Res BW 390 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth <b>36.171 MHz</b></p> <p>Total Power 15.3 dBm</p> <p>Transmit Freq Error 72.878 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 36.27 MHz</p> <p>x dB -6.00 dB</p>

## Appendix C): Band-edge for RF Conducted Emissions

### Test Limit

According to §15.247(d),

In any 100 kHz bandwidth outside the authorized frequency band,

Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

### Test Procedure

Test method Refer as KDB 558074 D01.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

### Test Setup



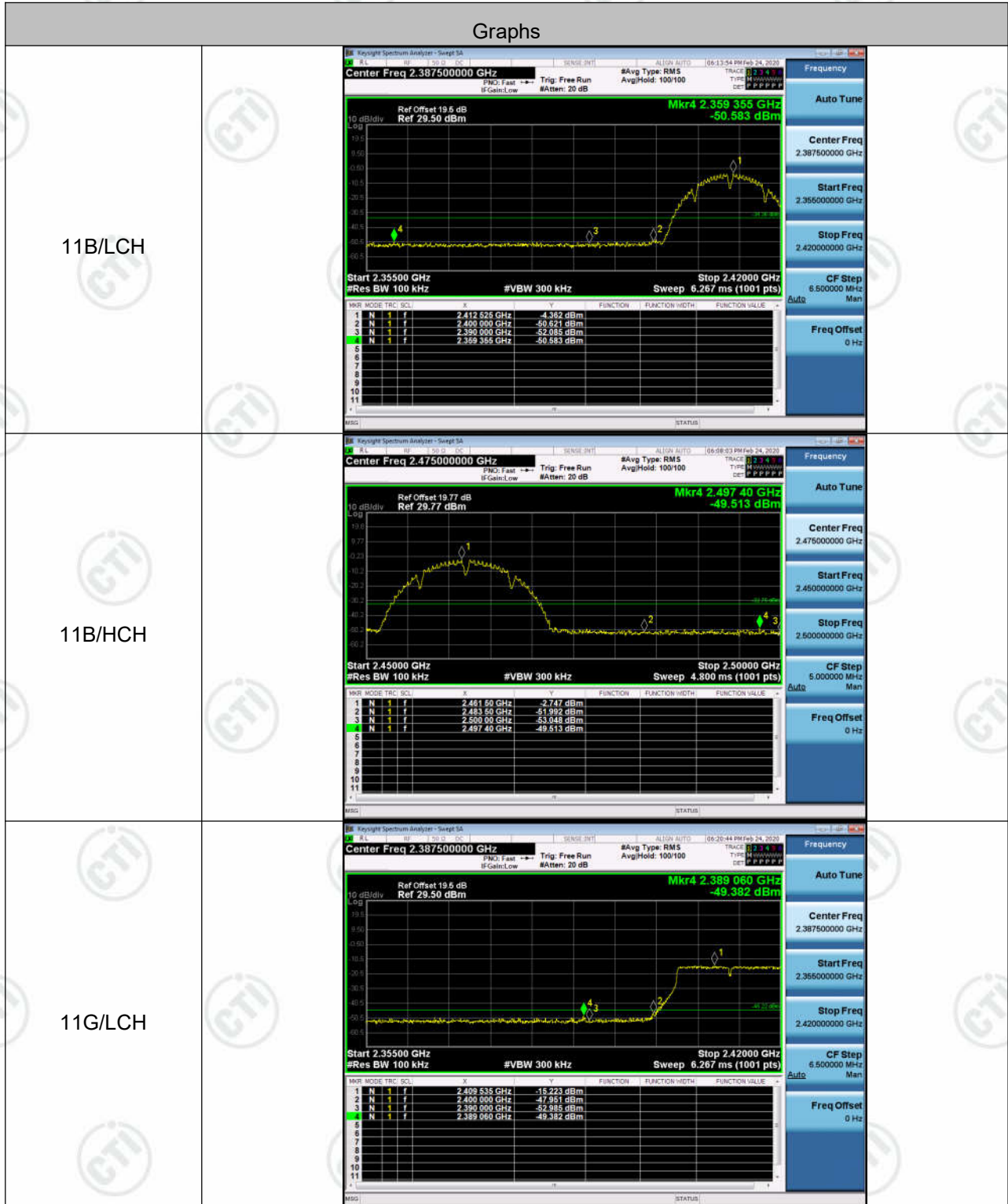


**Result Table**

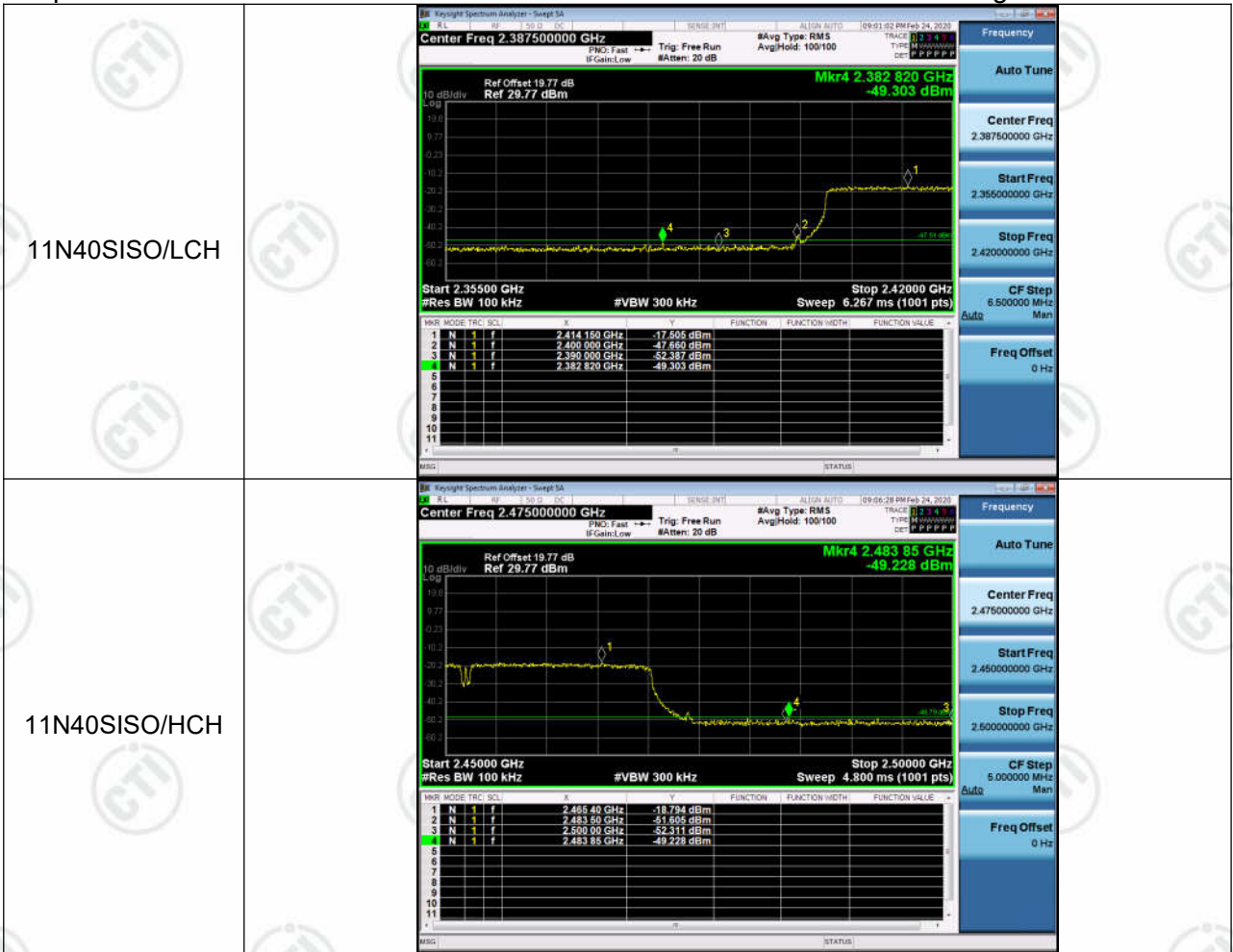
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.362	-50.583	-34.36	PASS
11B	HCH	-2.747	-49.513	-32.75	PASS
11G	LCH	-15.223	-49.382	-45.22	PASS
11G	HCH	-15.076	-49.030	-45.08	PASS
11N20SISO	LCH	-14.980	-50.126	-44.98	PASS
11N20SISO	HCH	-15.013	-50.484	-45.01	PASS
11N40SISO	LCH	-17.505	-49.303	-47.51	PASS
11N40SISO	HCH	-18.794	-49.228	-48.79	PASS



**Test Graph**



<p>11G/HCH</p>	<p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.47500000 GHz</li> <li>Mkr4: 2.491 20 GHz, -49.030 dBm</li> <li>Start Freq: 2.45000000 GHz</li> <li>Stop Freq: 2.50000000 GHz</li> <li>Res BW: 100 kHz</li> <li>VBW: 300 kHz</li> <li>Sweep: 4.800 ms (1001 pts)</li> </ul>
<p>11N20SISO/LCH</p>	<p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.38750000 GHz</li> <li>Mkr4: 2.383 210 GHz, -50.126 dBm</li> <li>Start Freq: 2.35500000 GHz</li> <li>Stop Freq: 2.42000000 GHz</li> <li>Res BW: 100 kHz</li> <li>VBW: 300 kHz</li> <li>Sweep: 6.267 ms (1001 pts)</li> </ul>
<p>11N20SISO/HCH</p>	<p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> <li>Center Freq: 2.47500000 GHz</li> <li>Mkr4: 2.492 10 GHz, -50.484 dBm</li> <li>Start Freq: 2.45000000 GHz</li> <li>Stop Freq: 2.50000000 GHz</li> <li>Res BW: 100 kHz</li> <li>VBW: 300 kHz</li> <li>Sweep: 4.800 ms (1001 pts)</li> </ul>



## Appendix D): RF Conducted Spurious Emissions

### Test Limit

According to §15.247(d),

In any 100 kHz bandwidth outside the authorized frequency band,

Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

### Test Procedure

Test method Refer as KDB 558074 D01.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

### Test Setup





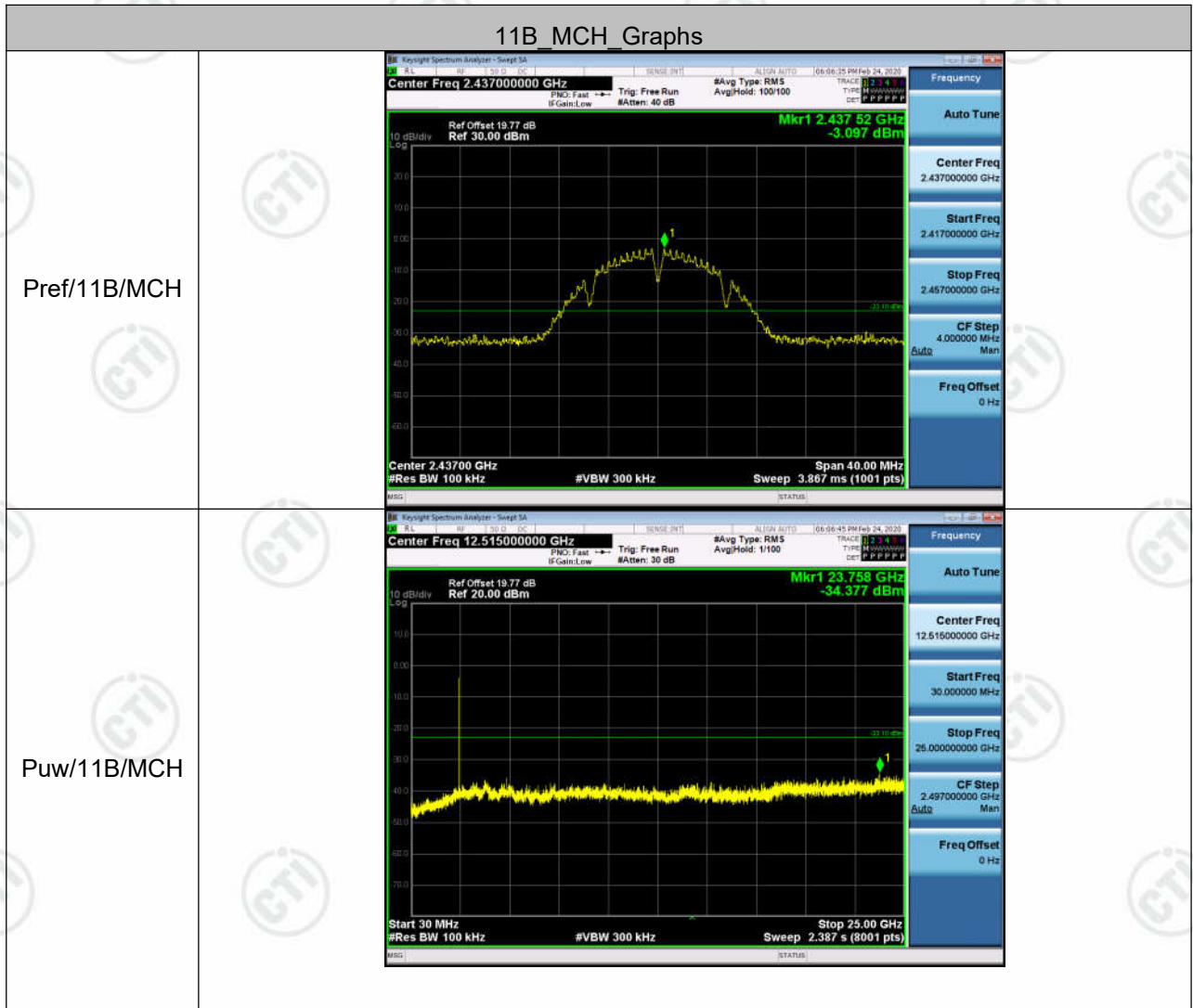
**Result Table**

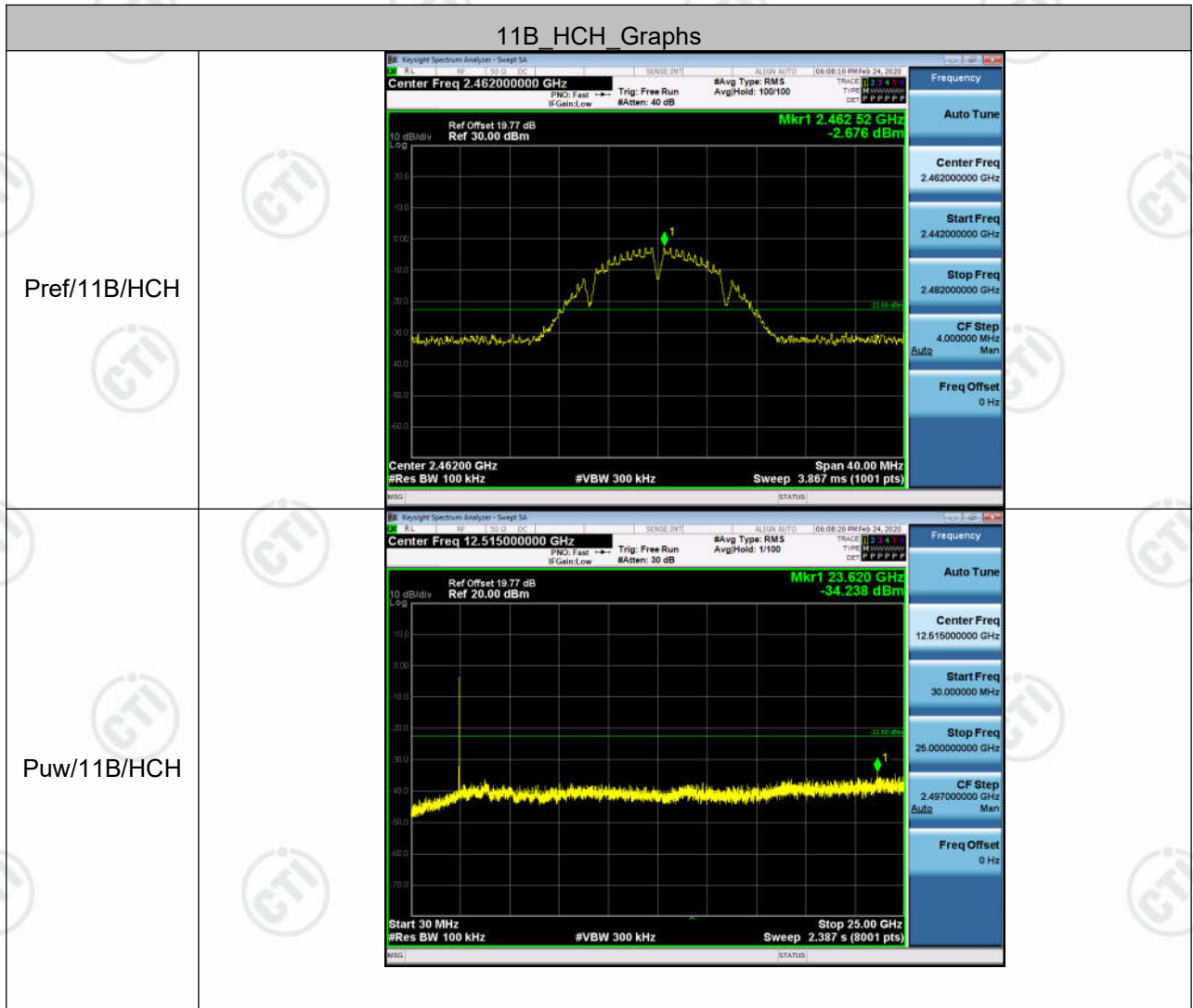
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	-4.071	<Limit	PASS
11B	MCH	-3.097	<Limit	PASS
11B	HCH	-2.676	<Limit	PASS
11G	LCH	-14.928	<Limit	PASS
11G	MCH	-13.963	<Limit	PASS
11G	HCH	-14.377	<Limit	PASS
11N20SISO	LCH	-14.273	<Limit	PASS
11N20SISO	MCH	-14.148	<Limit	PASS
11N20SISO	HCH	-14.904	<Limit	PASS
11N40SISO	LCH	-17.435	<Limit	PASS
11N40SISO	MCH	-18.077	<Limit	PASS
11N40SISO	HCH	-18.514	<Limit	PASS



**Test Graph**





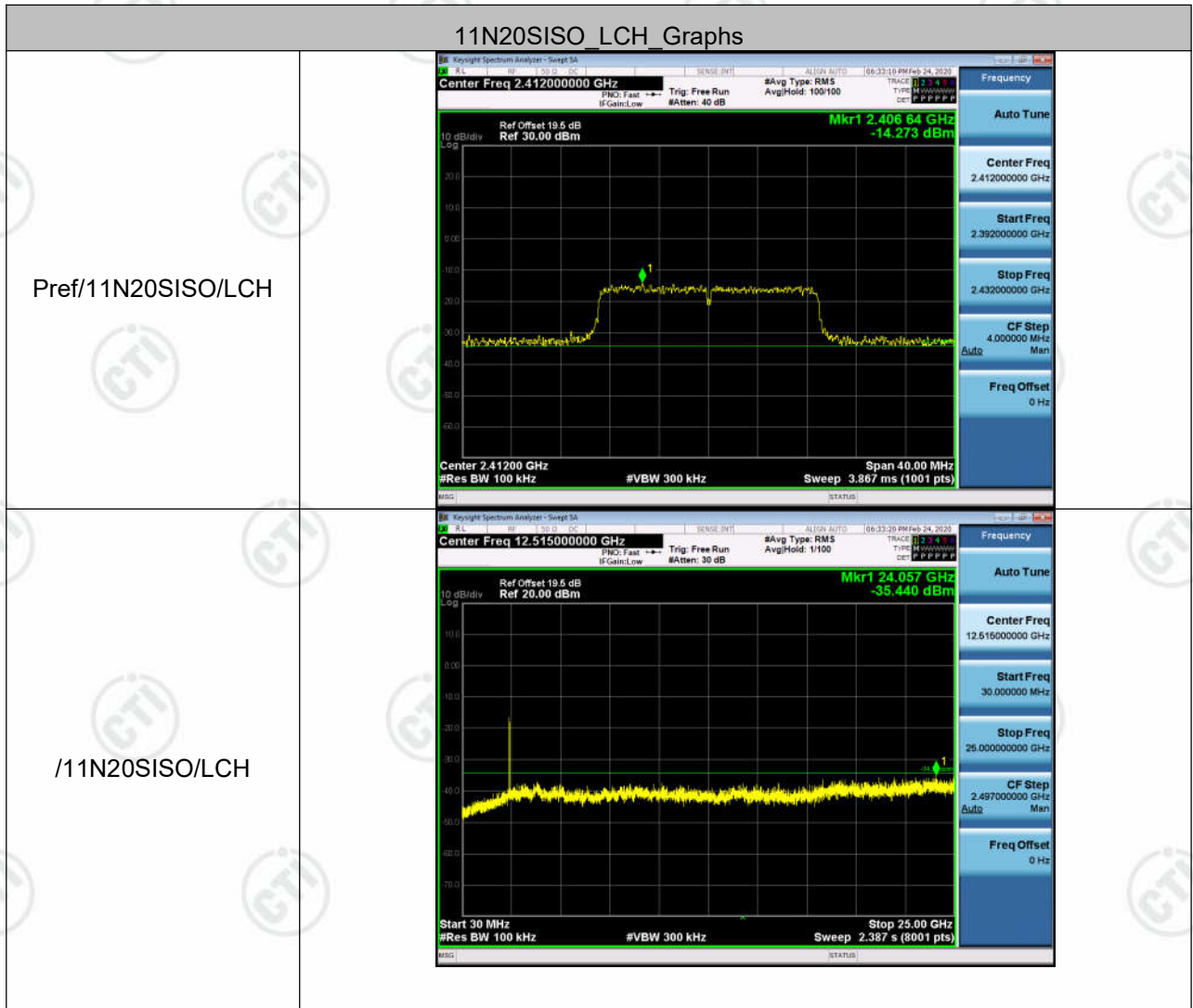


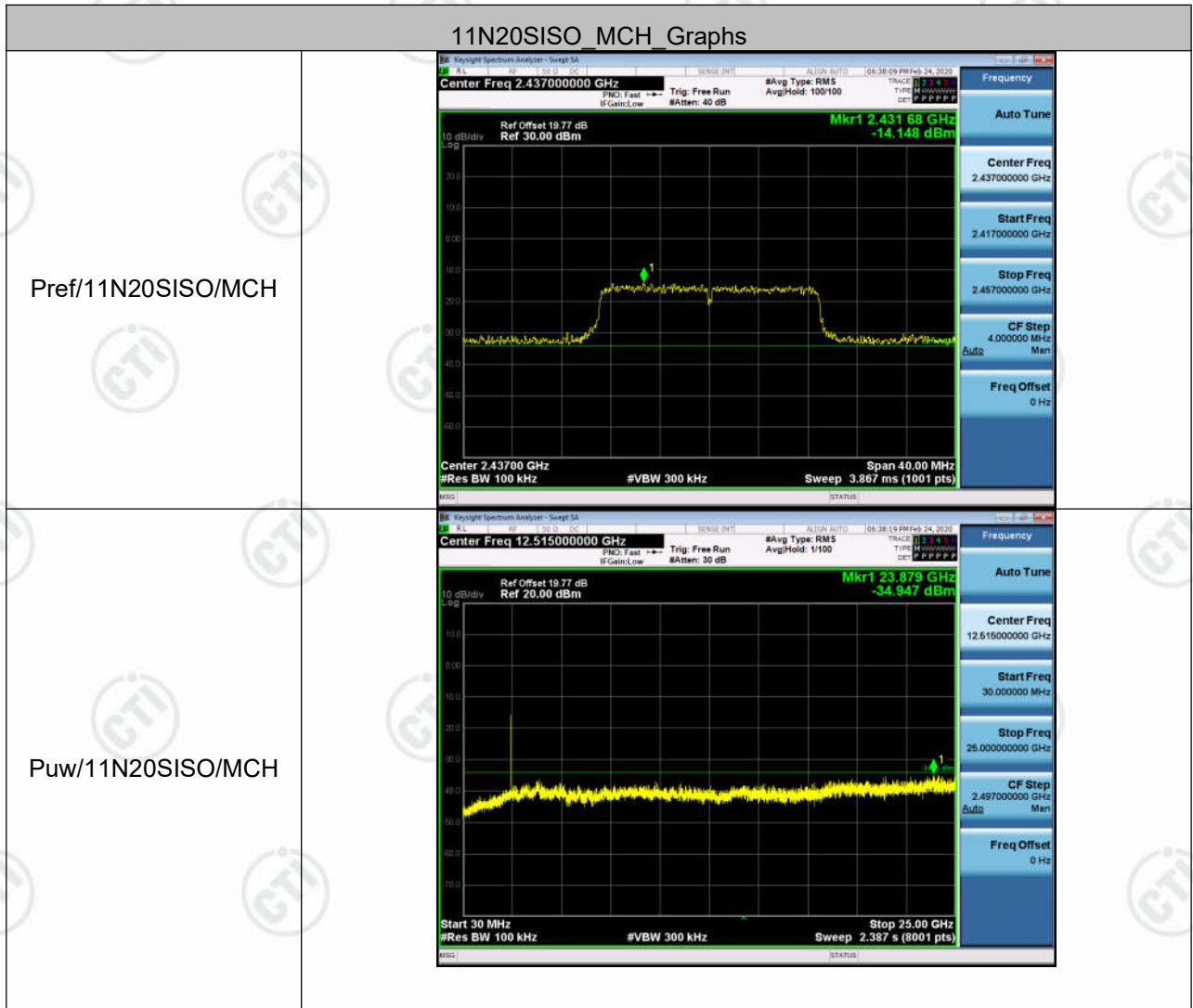


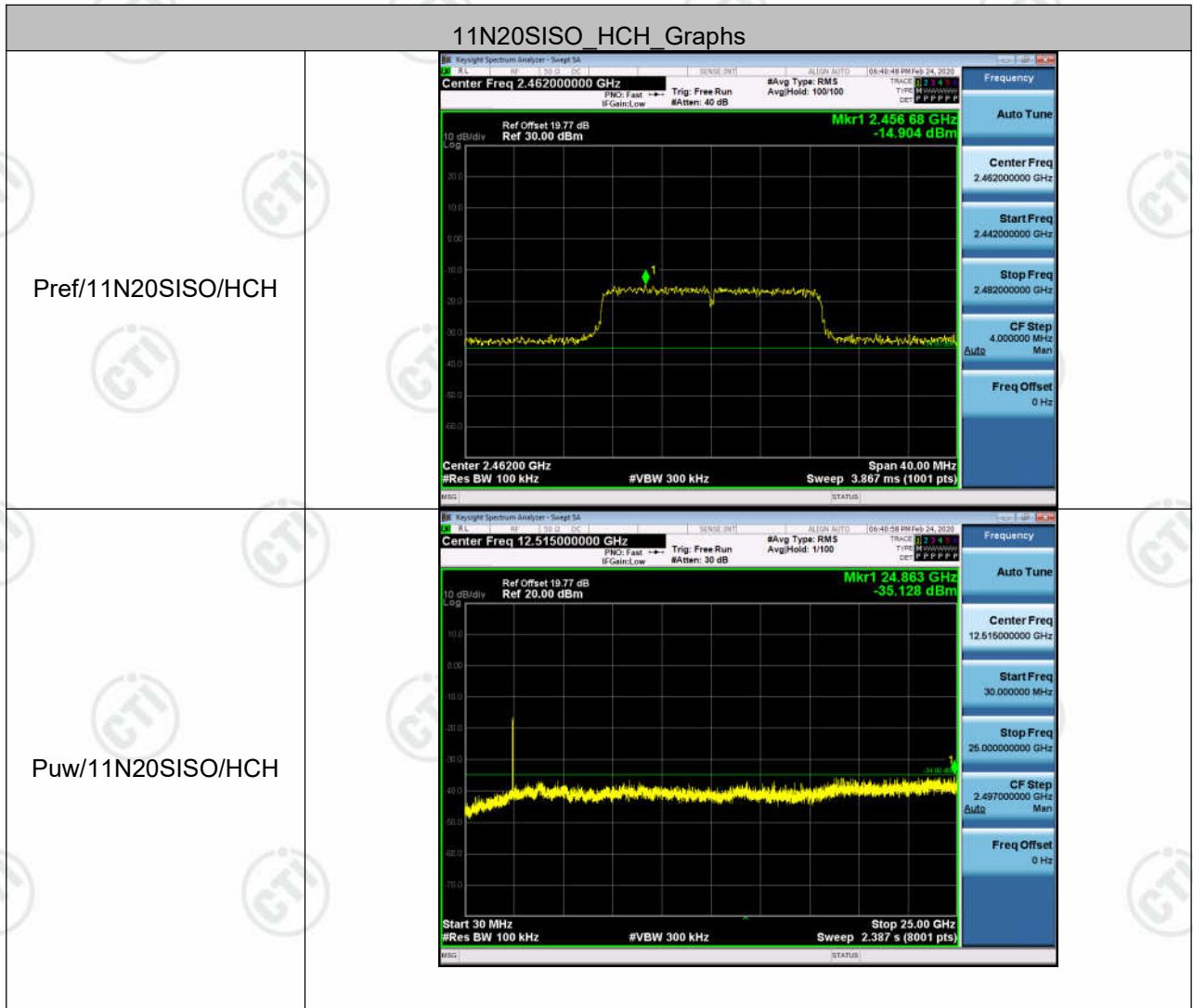


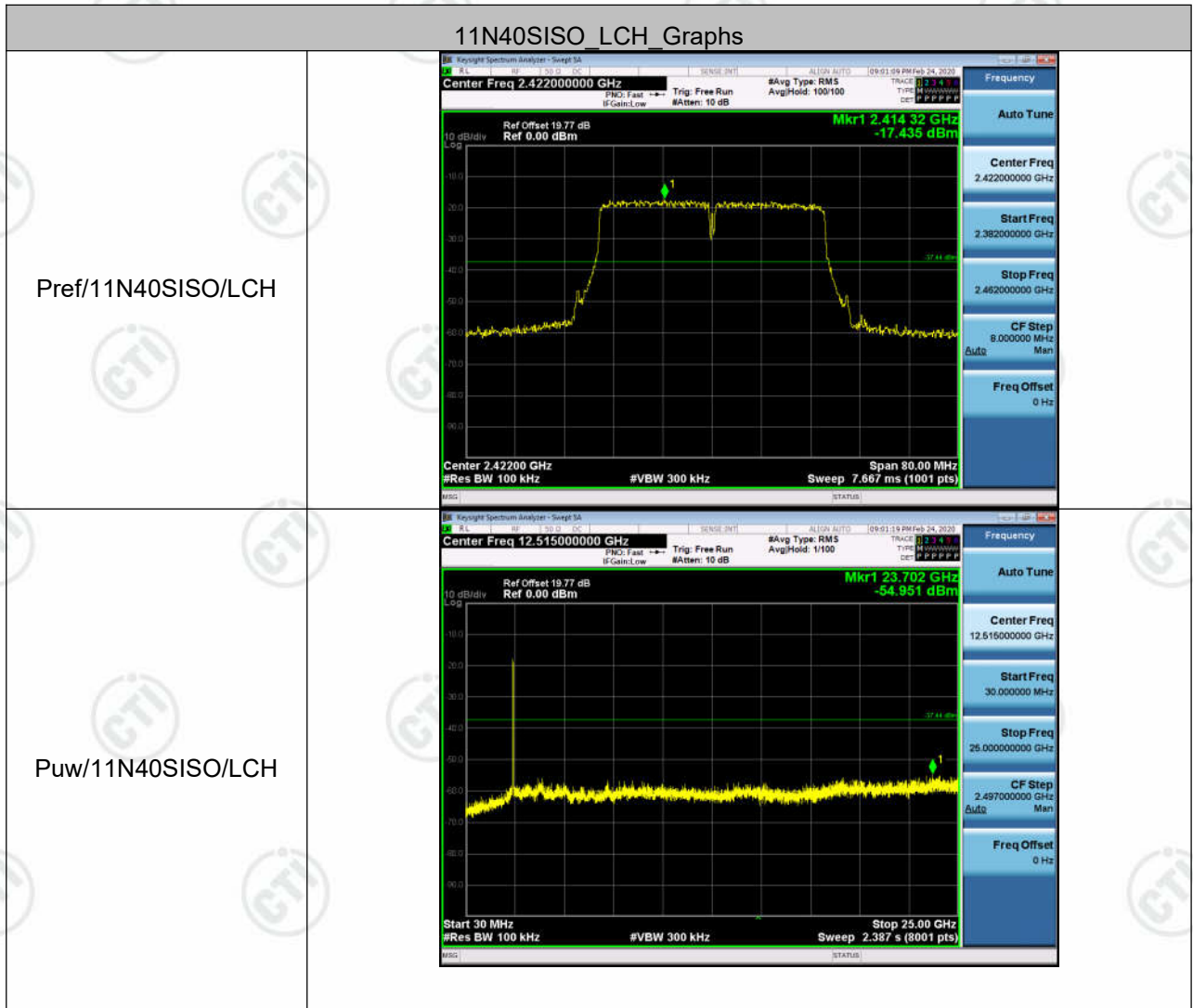




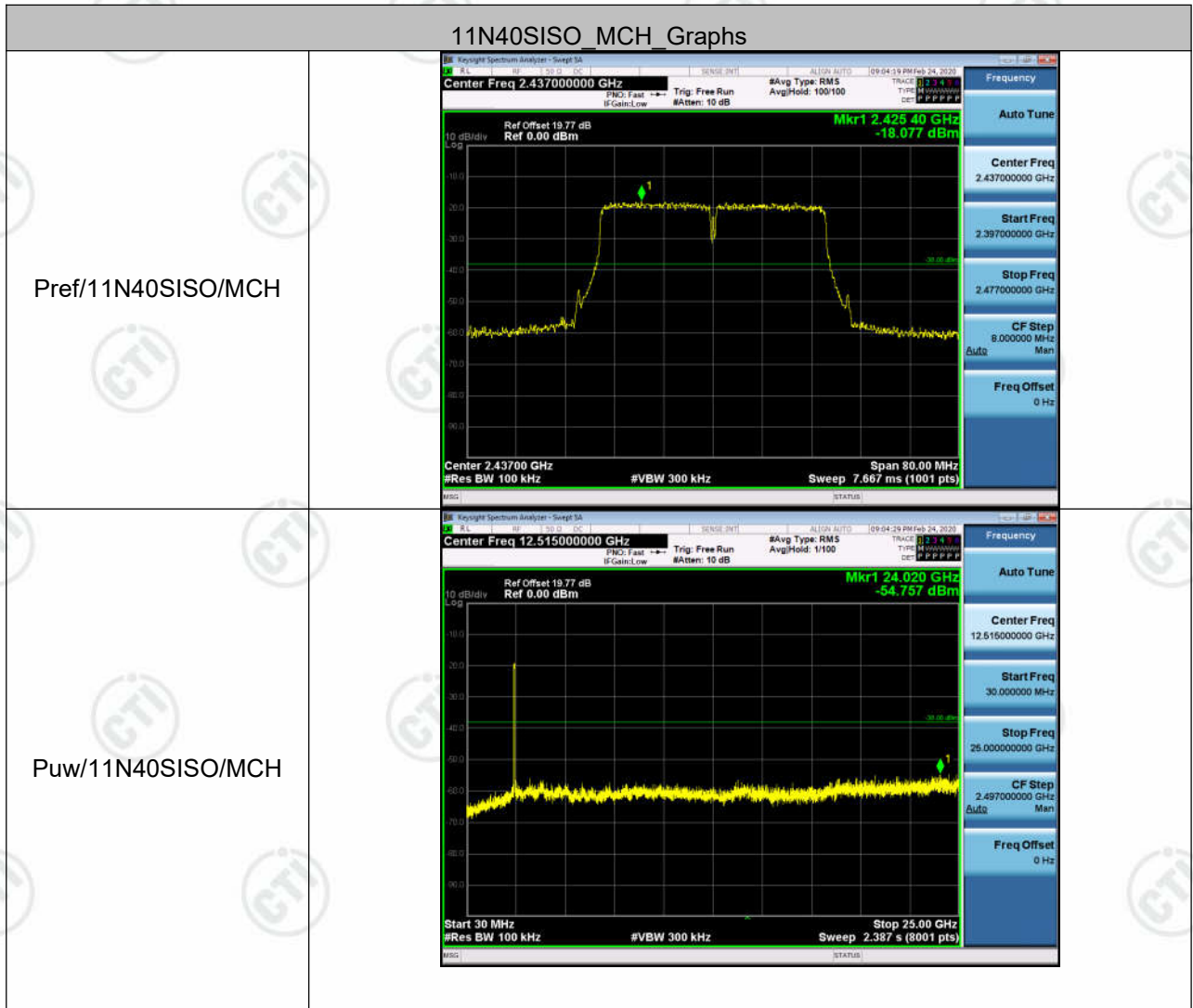


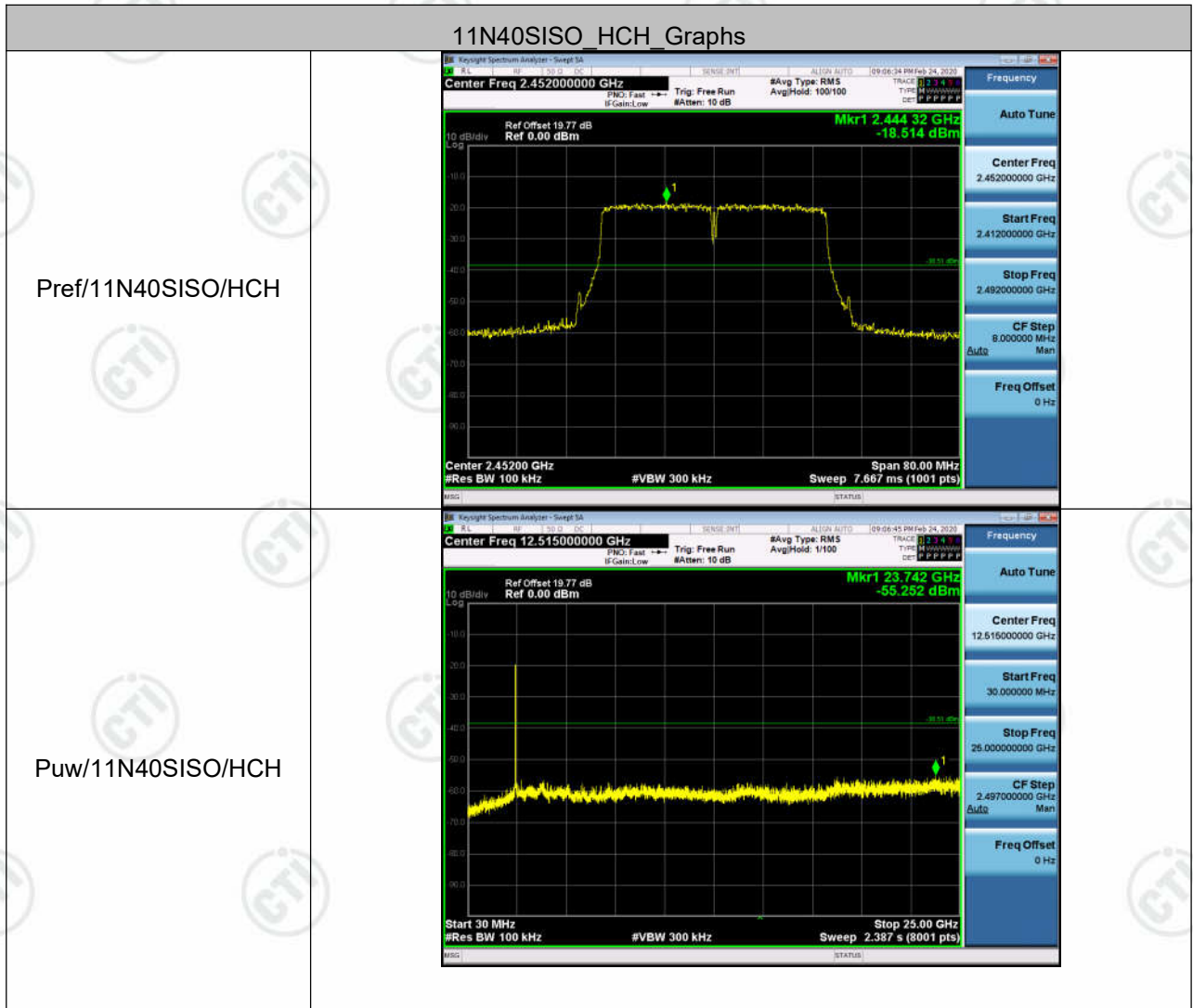












## Appendix E): Power Spectral Density

### Test Limit

According to §15.247(e),

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

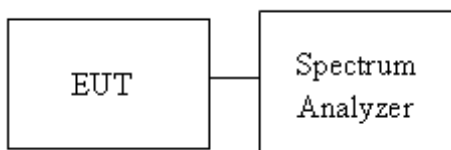
Limit	<input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 8dBm <input type="checkbox"/> Antenna with DG greater than 6 dBi : [ Limit = 8 – (DG – 6) ] <input type="checkbox"/> Point-to-point operation :
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### Test Procedure

Test method Refer as KDB 558074 D01.

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 3kHz, VBW = 30kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
4. The path loss was compensated to the results for each measurement by SA.
5. Mark the maximum level.
6. Measure and record the result of power spectral density. in the test report.

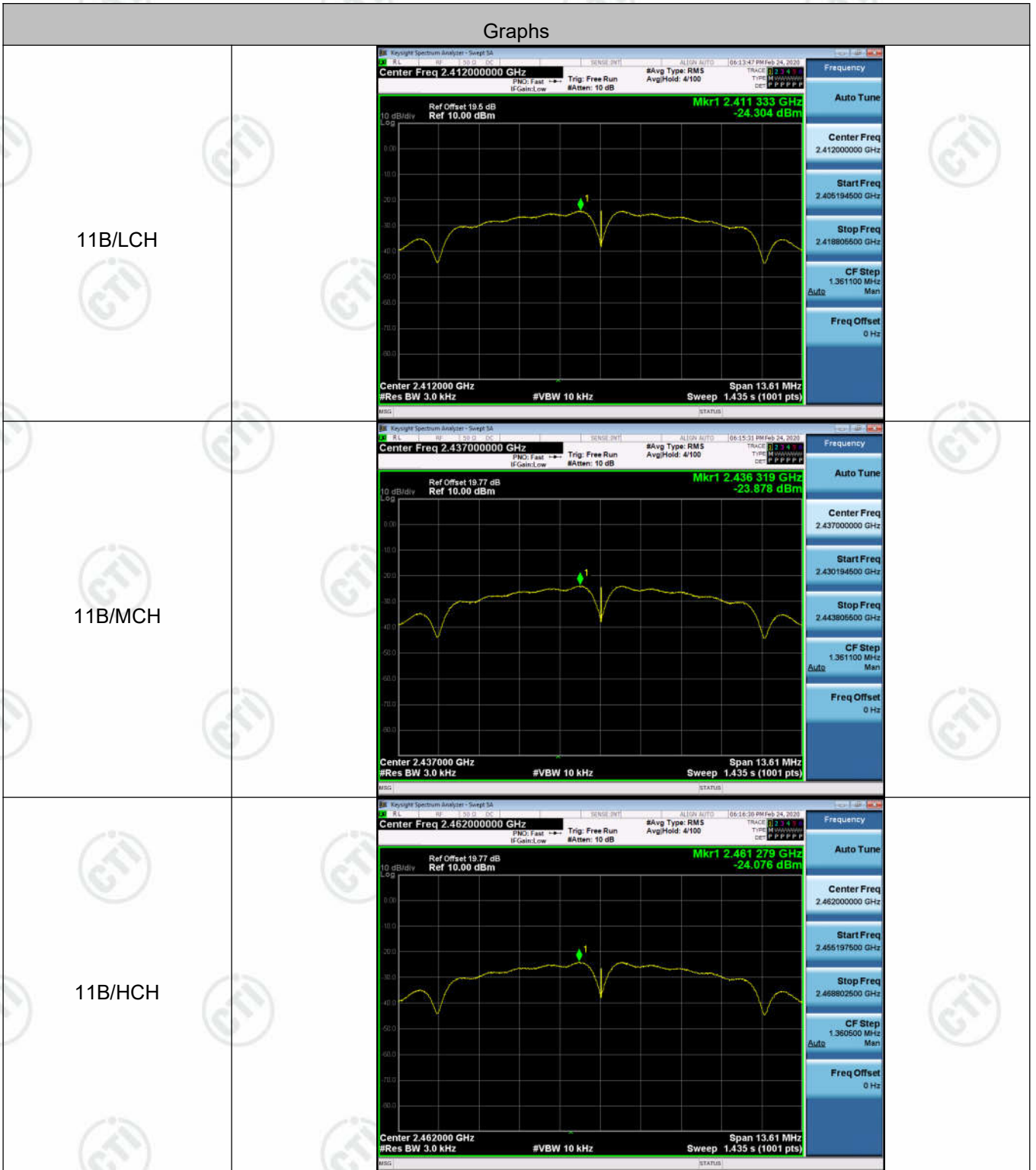
### Test Setup



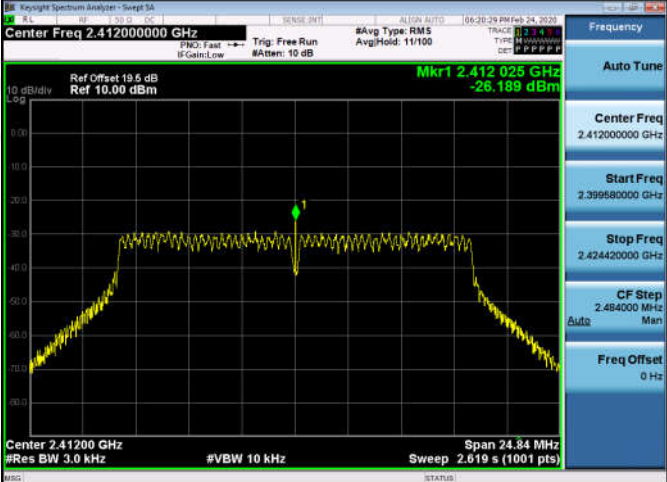
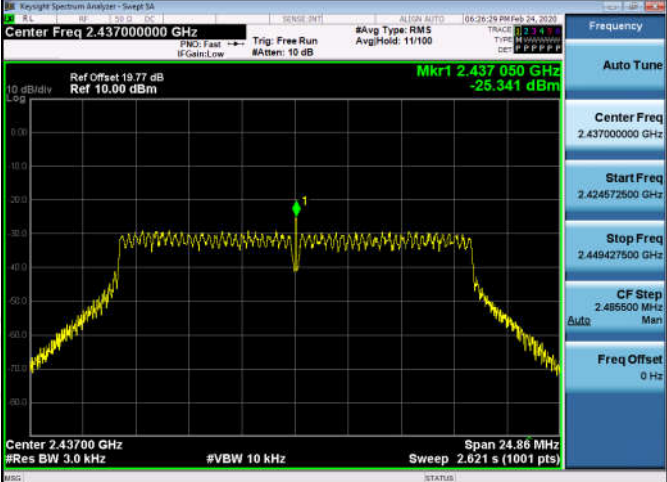
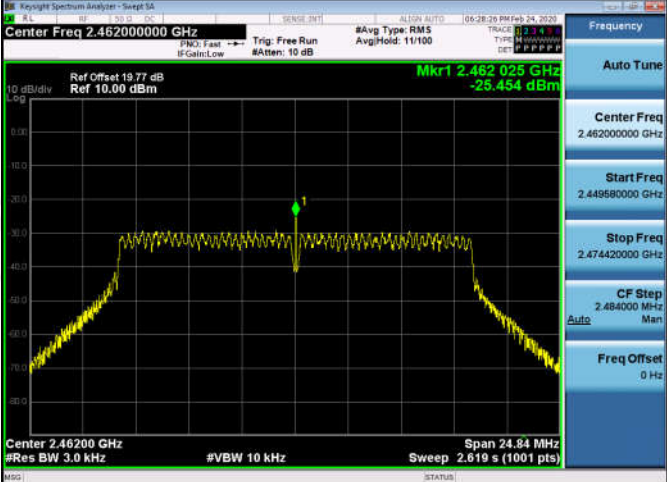
**Result Table**

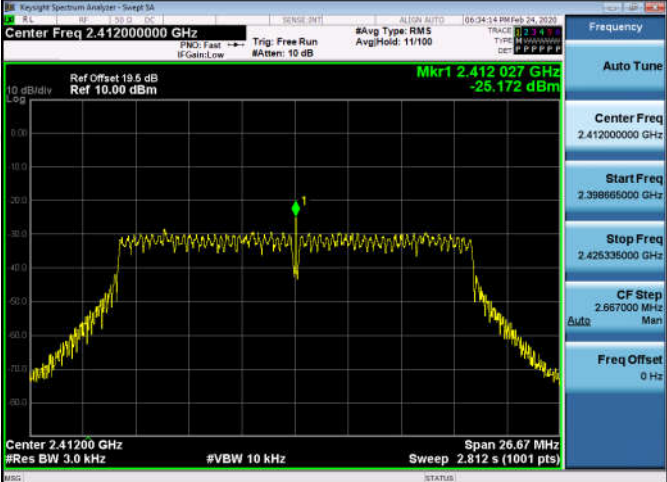
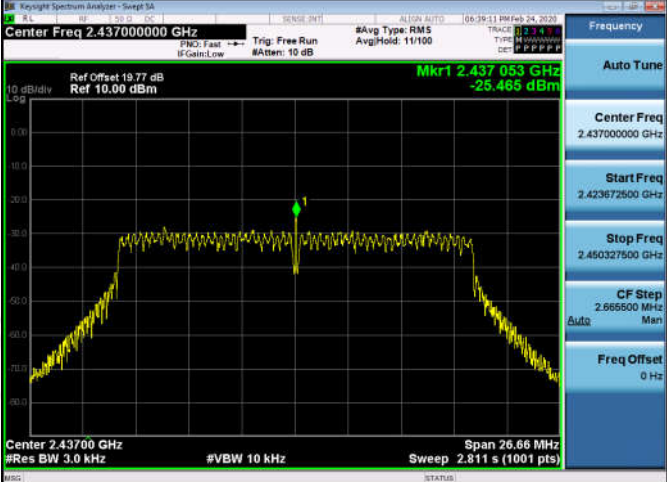
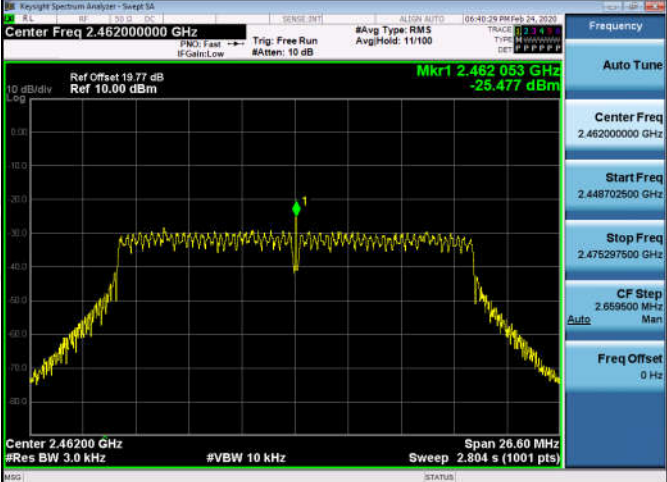
Mode	Channel	Power Spectral Density [dBm]	Verdict
11B	LCH	-24.304	PASS
11B	MCH	-23.878	PASS
11B	HCH	-24.076	PASS
11G	LCH	-26.189	PASS
11G	MCH	-25.341	PASS
11G	HCH	-25.454	PASS
11N20SISO	LCH	-25.172	PASS
11N20SISO	MCH	-25.465	PASS
11N20SISO	HCH	-25.477	PASS
11N40SISO	LCH	-24.036	PASS
11N40SISO	MCH	-24.468	PASS
11N40SISO	HCH	-22.915	PASS

**Test Graph**





<p>11G/LCH</p>	
<p>11G/MCH</p>	
<p>11G/HCH</p>	

<p>11N20SISO/LCH</p>	
<p>11N20SISO/MCH</p>	
<p>11N20SISO/HCH</p>	

<p>11N40SISO/LCH</p>	
<p>11N40SISO/MCH</p>	
<p>11N40SISO/HCH</p>	

## Appendix F): Antenna Requirement

### 15.203 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, 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.

### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### EUT Antenna:

The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 2dBi.





### Appendix G): AC Power Line Conducted Emission

<p>Test Procedure:</p>	<p>Test frequency range :150KHz-30MHz</p> <ol style="list-style-type: none"> <li>1)The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</li> </ol>														
<p>Limit:</p>	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency</p>	Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													



**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

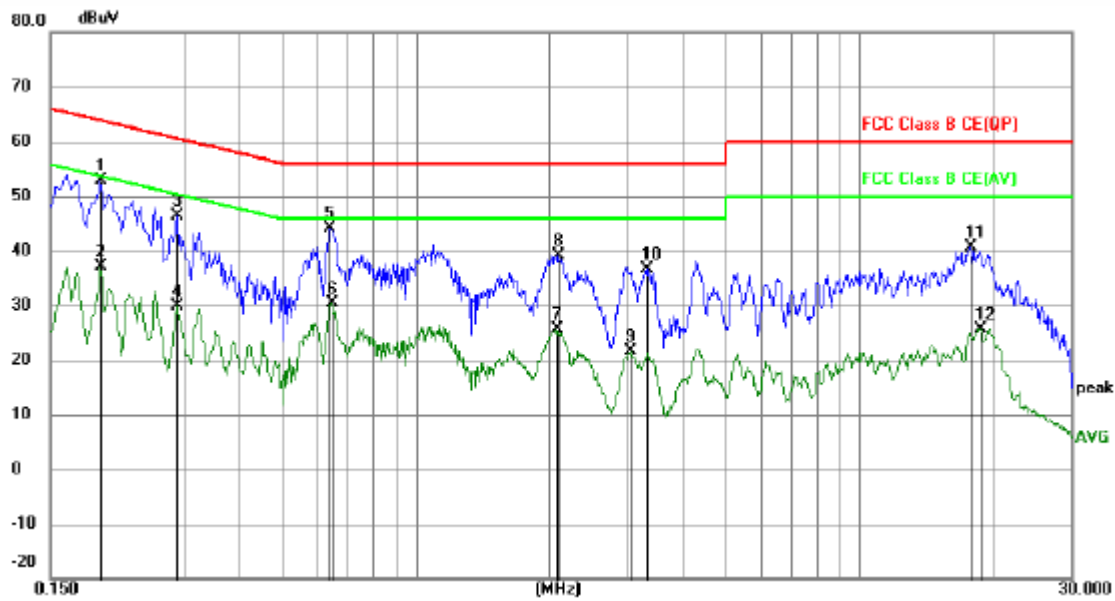
**Product** : stabilized camera

**Model/Type reference** : Feiyu pocket

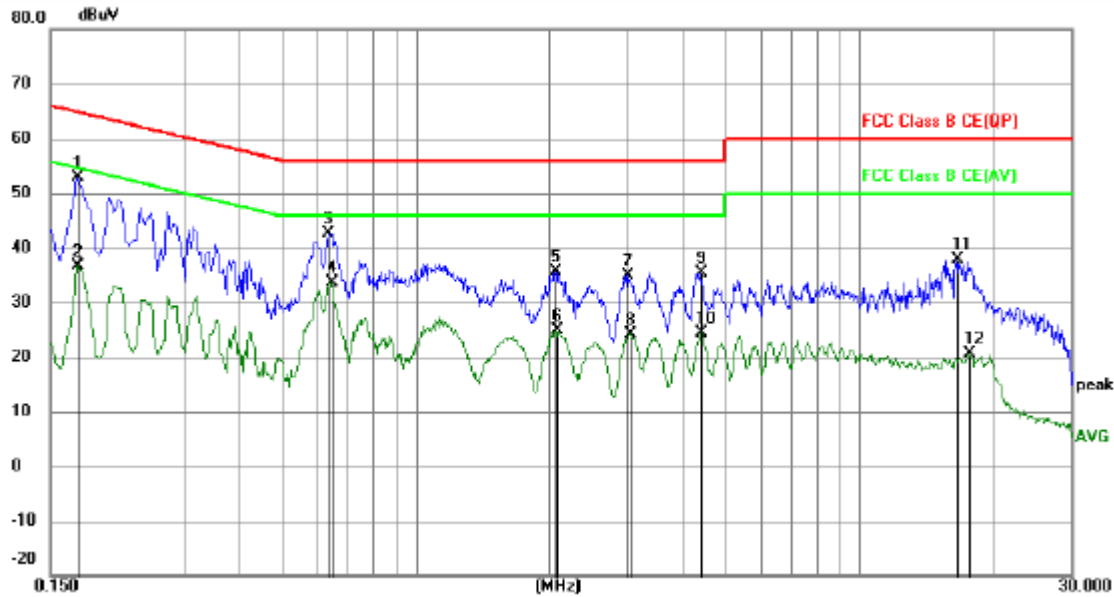
**Temperature** : 24°C

**Humidity** : 52%

Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1949	42.93	10.02	52.95	63.83	-10.88	QP	
2		0.1949	27.01	10.02	37.03	53.83	-16.80	AVG	
3		0.2895	36.25	10.09	46.34	60.54	-14.20	QP	
4		0.2895	19.90	10.09	29.99	50.54	-20.55	AVG	
5		0.6405	34.08	9.93	44.01	56.00	-11.99	QP	
6		0.6450	20.55	9.90	30.45	46.00	-15.55	AVG	
7		2.0715	15.87	9.83	25.70	46.00	-20.30	AVG	
8		2.0895	29.19	9.83	39.02	56.00	-16.98	QP	
9		3.0525	11.80	9.83	21.63	46.00	-24.37	AVG	
10		3.3225	26.73	9.83	36.56	56.00	-19.44	QP	
11		17.8170	30.59	9.95	40.54	60.00	-19.46	QP	
12		18.6450	15.78	9.94	25.72	50.00	-24.28	AVG	



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1725	42.86	10.00	52.86	64.84	-11.98	QP	
2		0.1725	26.67	10.00	36.67	54.84	-18.17	AVG	
3		0.6360	32.72	9.95	42.67	56.00	-13.33	QP	
4		0.6450	23.73	9.90	33.63	46.00	-12.37	AVG	
5		2.0579	25.82	9.83	35.65	56.00	-20.35	QP	
6		2.0760	15.09	9.83	24.92	46.00	-21.08	AVG	
7		2.9940	25.17	9.83	35.00	56.00	-21.00	QP	
8		3.0435	14.23	9.83	24.06	46.00	-21.94	AVG	
9		4.3980	25.64	9.83	35.47	56.00	-20.53	QP	
10		4.3980	14.58	9.83	24.41	46.00	-21.59	AVG	
11		16.5120	28.01	9.96	37.97	60.00	-22.03	QP	
12		17.6505	10.64	9.95	20.59	50.00	-29.41	AVG	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

## Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	<p><b>Below 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> </ol> <p><b>Above 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber change form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter).</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>				
Limit:	Frequency	Limit (dB $\mu$ V/m @3m)	Remark		
	30MHz-88MHz	40.0	Quasi-peak Value		
	88MHz-216MHz	43.5	Quasi-peak Value		
	216MHz-960MHz	46.0	Quasi-peak Value		
	960MHz-1GHz	54.0	Quasi-peak Value		
	Above 1GHz	54.0	Average Value		
		74.0	Peak Value		