

# FCC PART 15.249 TEST REPORT

For

**Changzhou Smoothies Electronics Co., Ltd.**

No. 91, Hanjiang West Road, Xinbei District, Changzhou, China

**FCC ID: 2ANTI-JP4IN1**

<b>Report Type:</b> Original Report		<b>Product Type:</b> MULTIPROTOCOL TX	
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<b>Report Number:</b>	RSA180910006-00B		
<b>Report Date:</b>	2018-10-30		
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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Applicant	Changzhou Smoothies Electronics Co., Ltd.
Tested Model	JP4IN1
Series Model	JP4IN1-SE
Product Type	MULTIPROTOCOL TX
Dimension	64.1mm(L)*48.9mm(W)*32.8mm(H)
Power Supply	DC 6V

*Note: The difference between the tested model and series model was explained in the declaration letter.*

*All measurement and test data in this report was gathered from production sample serial number: 20180910006. (Assigned by BACL, Kunshan). The EUT was received on 2018-09-10.*

### Objective

This type approval report is prepared on behalf of Changzhou Smoothies Electronics Co., Ltd. in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

### Related Submittal(s)/Grant(s)

N/A

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Lab Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

**Measurement Uncertainty**

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

**Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

## SYSTEM TEST CONFIGURATION

### Justification

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	36	2439
2	2405	37	2440
...	...	...	...
34	2437	69	2472
35	2438	70	2473

EUT was tested with channel 1, 36 and 70.

### EUT Exercise Software

EUT was tested under engineering mode.

### Support Equipment List and Details

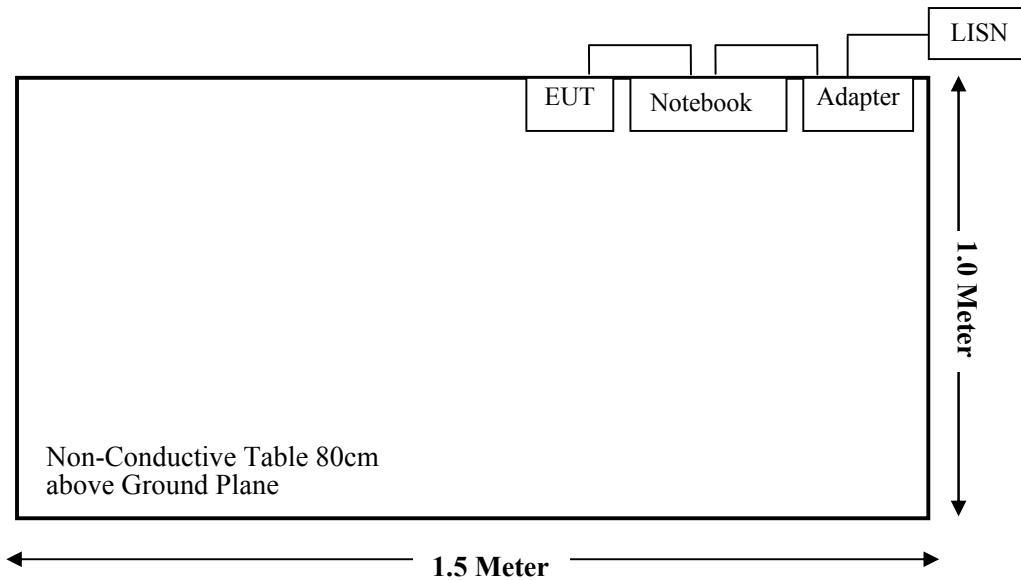
Manufacturer	Description	Model	Serial Number
DELL	Notebook	GX620	D65874152
DELL	Adapter	LA65NS0-00	DF263

### External I/O Cable

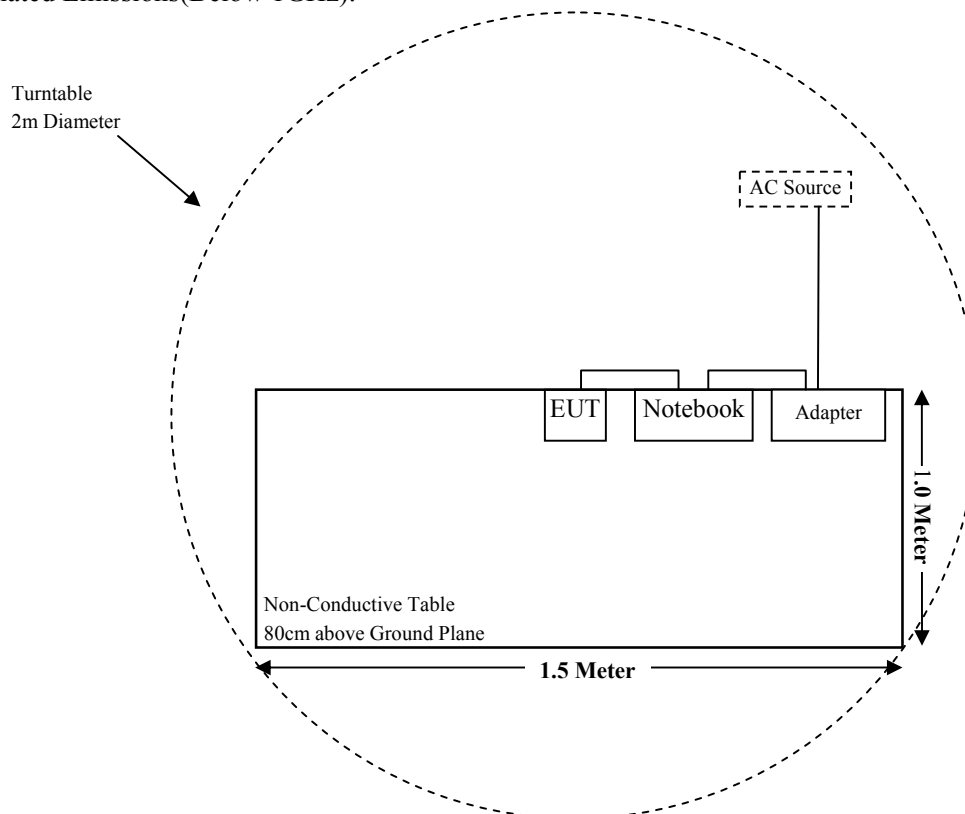
Cable Description	Length (m)	From Port	To
Power Cable-1	1.0	Notebook	Adapter
Power Cable-2	1.0	Adapter	AC Source/LISN
USB Cable-1	1.0	Notebook	EUT

## Block Diagram of Test Setup

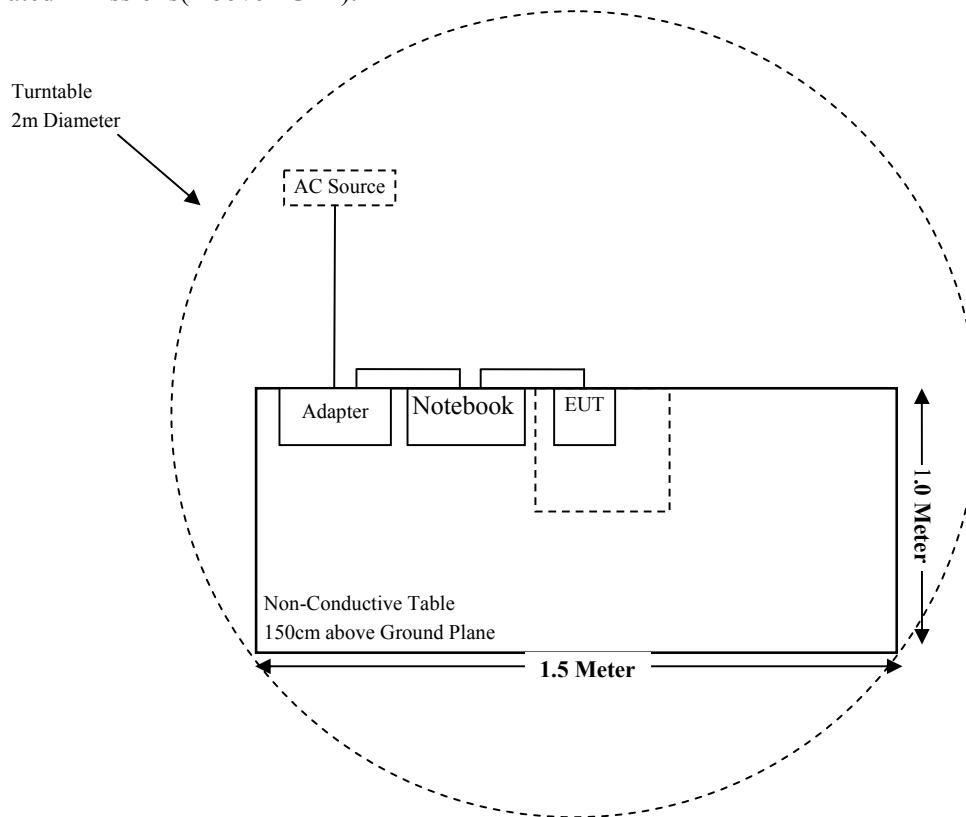
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conduction Emissions	Compliant
15.205, §15.209, §15.249	Radiated Emissions& Out of Band Emission	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant



**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>Radiated Emission Test (Chamber 1#)</b>					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2017-11-12	2018-11-11
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2016-12-26	2019-12-25
Sonoma Instrunent	Pre-amplifier	310N	171205	2018-08-15	2019-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14
<b>Radiated Emission Test (Chamber 2#)</b>					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-27	2019-08-26
ETS-LINDGREN	Horn Antenna	3115	6229	2016-01-11	2019-01-10
A.H.Systems, inc	Amplifier	2641-1	466	2018-09-11	2019-09-10
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2018-08-15	2019-08-14
<b>RF Conducted Test</b>					
Rohde & Schwarz	Signal Analyzer	FSIQ26	836131/009	2017-11-12	2018-11-11
Narda	Attenuator/6dB	10690812-2	26850-6	2018-01-10	2019-01-09
Changzhou Smoothies	RF Cable	SmoothiesC01	C01	Each Time	/
<b>Conducted Emission Test</b>					
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2017-11-12	2018-11-11
Rohde & Schwarz	LISN	ENV216	3560655016	2017-11-15	2018-11-14
BACL	Auto test Software	BACL-EMC	CE001	/	/
Narda	Attenuator/6dB	10690812-2	26850-6	2018-01-10	2019-01-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2018-08-15	2019-08-14

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## **FCC§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

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

### **Antenna Connector Construction**

The EUT has a RP-SMA connector to attach an external antenna and antenna gain is 1.5dBi, fulfill the requirement of this section, please refer to the EUT photos.

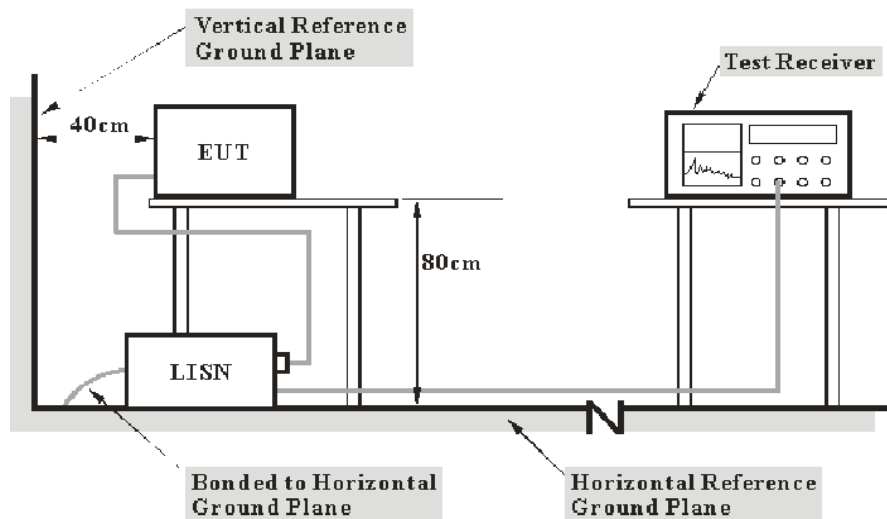
**Result:** Compliant.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207(a)

### EUT Setup



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

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

## Test Procedure

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

## Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Corrected Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of Compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Corrected Amplitude (dB}\mu\text{V)}$$

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

## Test Data

### Environmental Conditions

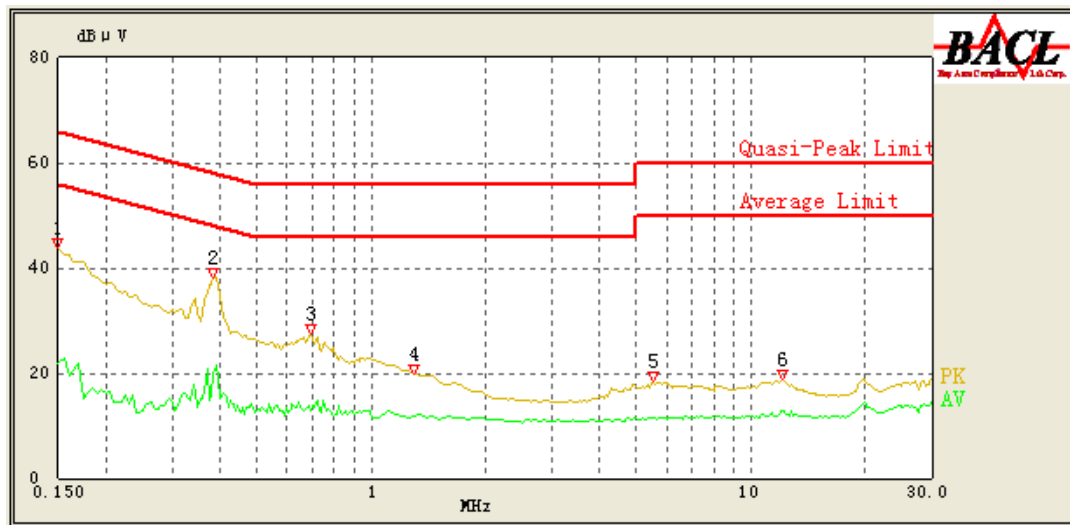
Temperature:	20.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.3 kPa

*The testing was performed by Hope Zhang on 2018-10-24.*

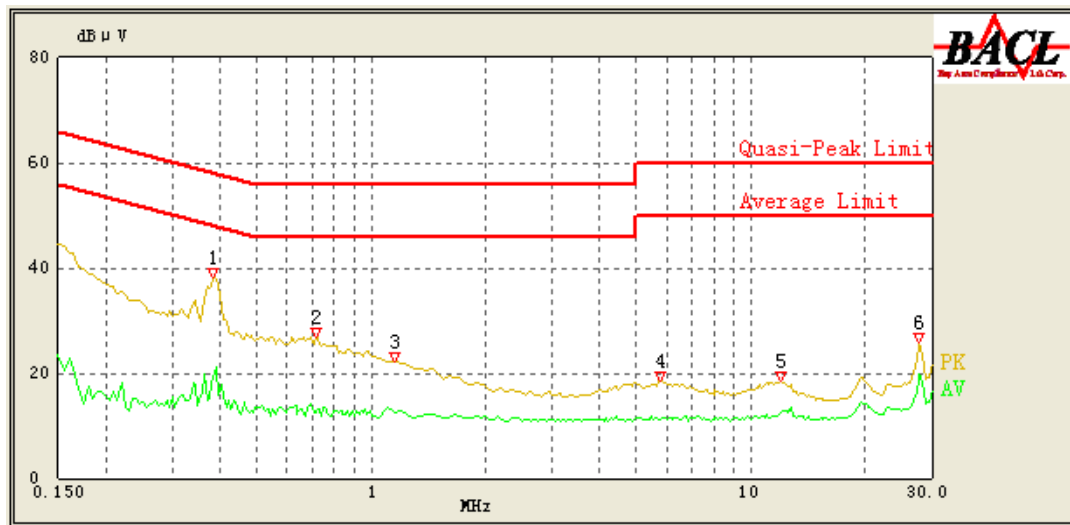
**Test Result:** Compliant.

*EUT operation mode: Transmitting in low channel (worst case)*

## AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	43.80	QP	9.000	L1	16.06	66.00	22.20	Compliance
0.150	21.73	AV	9.000	L1	16.06	56.00	34.27	Compliance
0.385	38.13	QP	9.000	L1	16.05	59.29	21.16	Compliance
0.385	19.83	AV	9.000	L1	16.05	49.29	29.46	Compliance
0.690	27.41	QP	9.000	L1	15.96	56.00	28.59	Compliance
0.690	12.86	AV	9.000	L1	15.96	46.00	33.14	Compliance
1.300	19.92	QP	9.000	L1	15.87	56.00	36.08	Compliance
1.300	11.70	AV	9.000	L1	15.87	46.00	34.30	Compliance
5.550	18.40	QP	9.000	L1	15.89	60.00	41.60	Compliance
5.550	11.64	AV	9.000	L1	15.89	50.00	38.36	Compliance
12.100	18.97	QP	9.000	L1	16.12	60.00	41.03	Compliance
12.050	12.83	AV	9.000	L1	16.12	50.00	37.17	Compliance

**AC 120V/60 Hz, Neutral**

Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.385	38.09	QP	9.000	N	16.09	59.29	21.20	Compliance
0.385	19.15	AV	9.000	N	16.09	49.29	30.14	Compliance
0.715	26.88	QP	9.000	N	15.99	56.00	29.12	Compliance
0.715	12.57	AV	9.000	N	15.99	46.00	33.43	Compliance
1.150	22.15	QP	9.000	N	15.94	56.00	33.85	Compliance
1.150	12.52	AV	9.000	N	15.94	46.00	33.48	Compliance
5.800	18.54	QP	9.000	N	15.89	60.00	41.46	Compliance
5.800	11.20	AV	9.000	N	15.89	50.00	38.80	Compliance
11.950	18.44	QP	9.000	N	16.00	60.00	41.56	Compliance
12.000	12.66	AV	9.000	N	16.00	50.00	37.34	Compliance
27.850	25.80	QP	9.000	N	16.30	60.00	34.20	Compliance
27.850	19.89	AV	9.000	N	16.30	50.00	30.11	Compliance

**Note:**

1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Margin (dB) = Limit (dBμV) – Corrected Amplitude (dBμV)

## FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS& OUT OF BAND EMISSION

### Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

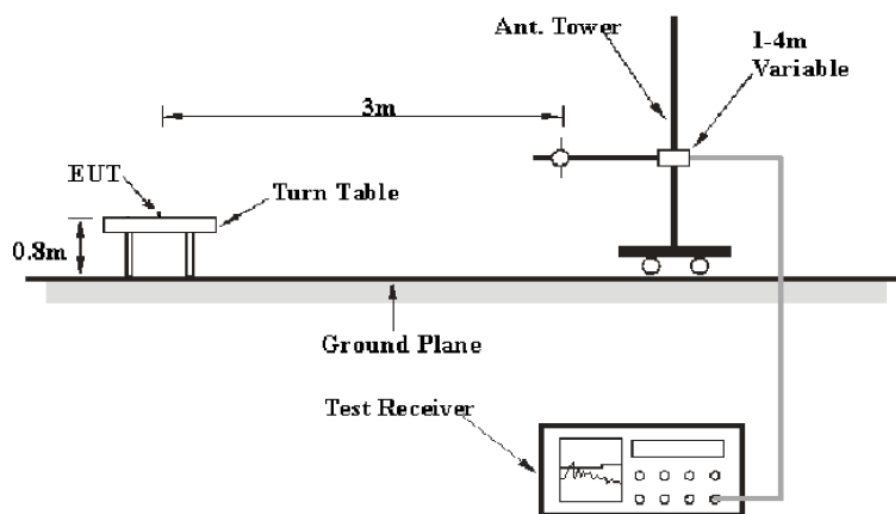
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

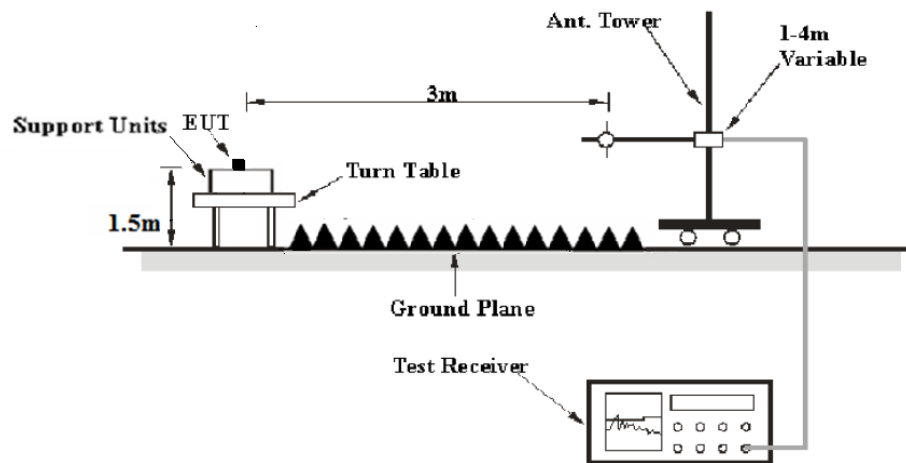
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

### EMI Test Receiver Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave

### Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.



### Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude (dB}\mu\text{V /m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V /m)}$$

### Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249.

### Test Data

#### Environmental Conditions

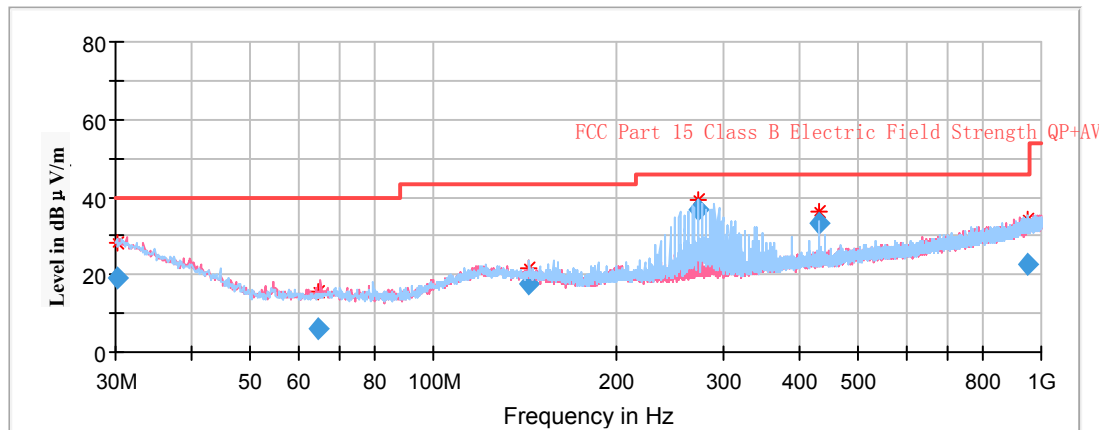
Temperature:	24.6°C~25.1°C
Relative Humidity:	51%~52%
ATM Pressure:	101.2 kPa~102 kPa

*The testing was performed by Hope Zhang on 2018-10-22 & 2018-10-25.*

*Test Mode: Transmitting*

**Spurious Emission Test:****30MHz-1GHz**

(Pre-scan with low, middle and high channels of operation in the X,Y and Z axes of orientation, the worst case **low** channel of operation in X-axis of orientation was recorded)



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi-peak (dBμV/m)	Height (cm)	Polar (H/V)				
30.259750	28.00	200.0	V	43.0	-4.8	40.00	12.00
64.665150	15.71	100.0	V	222.0	-17.6	40.00	24.29
143.967800	21.42	200.0	H	299.0	-12.1	43.50	22.08
272.265300	39.17	100.0	H	264.0	-11.4	46.00	6.83
432.037650	36.12	100.0	H	165.0	-7.7	46.00	9.88
949.930500	34.10	200.0	H	217.0	1.3	46.00	11.90

**1GHz-18GHz**

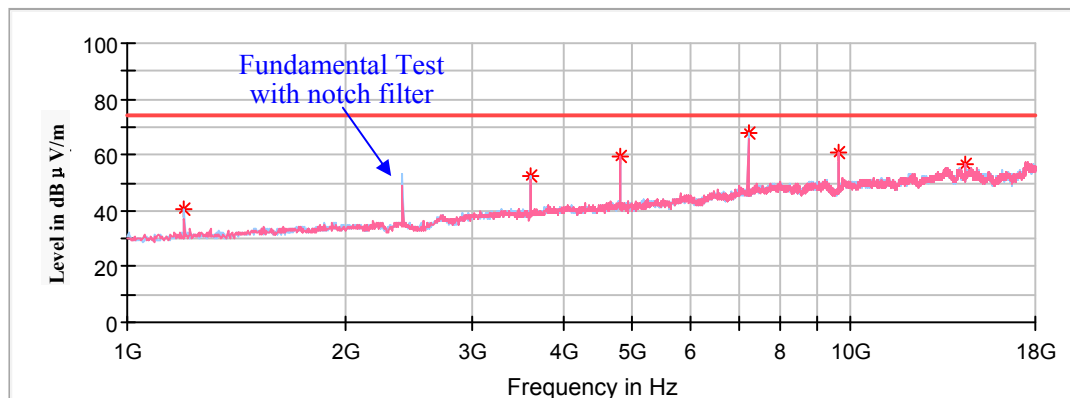
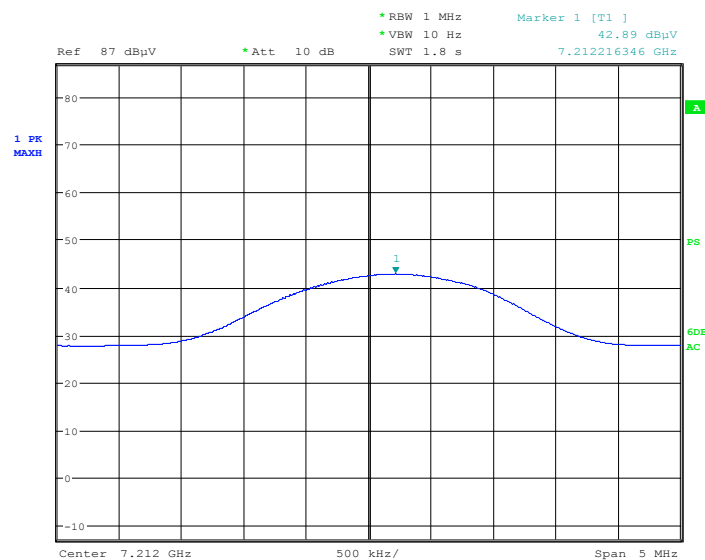
(Pre-scan in the X, Y and Z axes of orientation, the worst case **X-axis of orientation** was recorded.)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)  
Corrected Amplitude (dB $\mu$ V /m) = Corrected Factor (dB/m) + Reading (dB $\mu$ V)  
Margin (dB) = Limit (dB $\mu$ V/m) – Corrected Amplitude (dB $\mu$ V /m)

**Low Channel: 2404MHz****Pre-Scan Peak Horizontal & Vertical:**

Full Spectrum

**Pre-Scan Average Horizontal:**

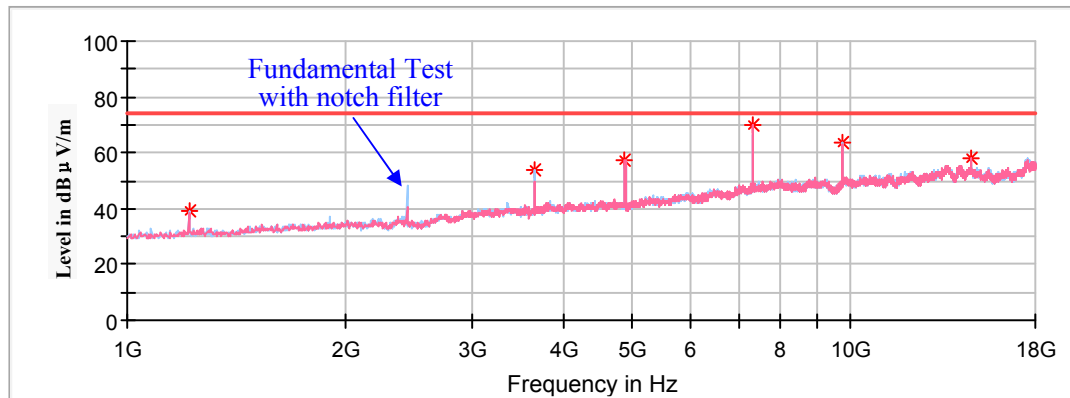
Date: 22.OCT.2018 11:04:19

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1200.60	40.35	---	150.0	H	79.0	-9.3	74.00	33.65
1200.60	---	25.43	150.0	H	79.0	-9.3	54.00	28.57
3604.40	52.56	---	150.0	V	91.0	-0.5	74.00	21.44
3604.40	---	37.38	150.0	V	91.0	-0.5	54.00	16.62
4808.00	59.61	---	150.0	H	289.0	1.8	74.00	14.39
4808.00	---	43.98	150.0	H	289.0	1.8	54.00	10.02
7212.00	67.62	---	200.0	H	193.0	8.9	74.00	6.38
7212.00	---	51.79	200.0	H	193.0	8.9	54.00	2.21
9615.60	61.08	---	200.0	H	23.0	11.6	74.00	12.92
9615.60	---	46.20	200.0	H	23.0	11.6	54.00	7.80
14426.60	56.87	---	100.0	V	34.0	14.7	74.00	17.13
14426.60	---	41.42	100.0	V	34.0	14.7	54.00	12.58

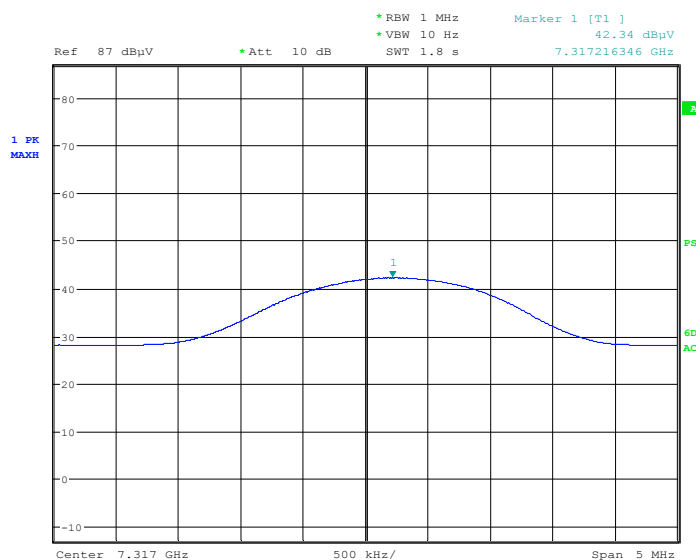
### Middle Channel: 2439MHz

#### Pre-Scan Peak Horizontal & Vertical:

Full Spectrum



#### Pre-Scan Average Horizontal:



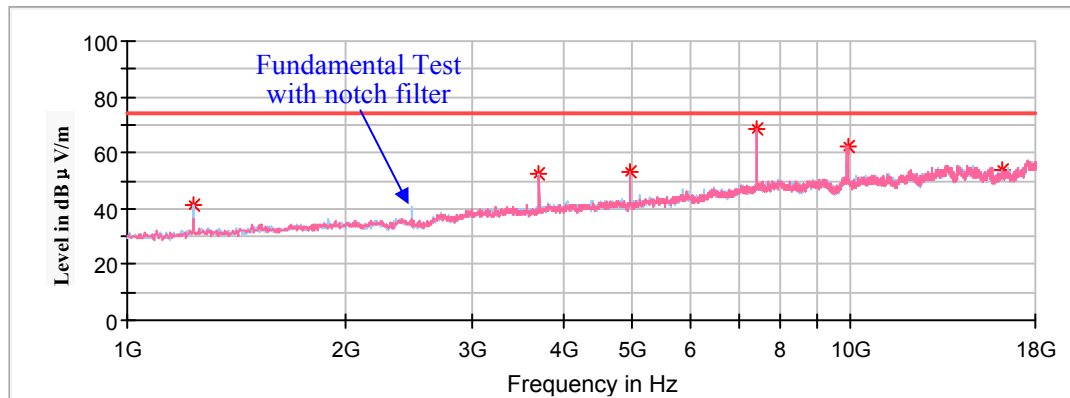
Date: 22.OCT.2018 10:46:39

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1217.60	39.03	---	250.0	H	275.0	-9.2	74.00	34.97
1217.60	---	21.58	250.0	H	275.0	-9.2	54.00	32.42
3655.40	54.16	---	150.0	V	28.0	-0.3	74.00	19.84
3655.40	---	36.61	150.0	V	28.0	-0.3	54.00	17.39
4878.00	57.67	---	150.0	H	134.0	1.9	74.00	16.33
4878.00	---	39.96	150.0	H	134.0	1.9	54.00	14.04
7317.00	69.9	---	100.0	H	185.0	9.2	74.00	4.10
7317.00	---	51.54	100.0	H	185.0	9.2	54.00	2.46
9755.00	63.6	---	200.0	H	225.0	12	74.00	10.40
9755.00	---	46.18	200.0	H	225.0	12	54.00	7.82
14637.40	57.91	---	150.0	V	118.0	15	74.00	16.09
14637.40	---	39.74	150.0	V	118.0	15	54.00	14.26

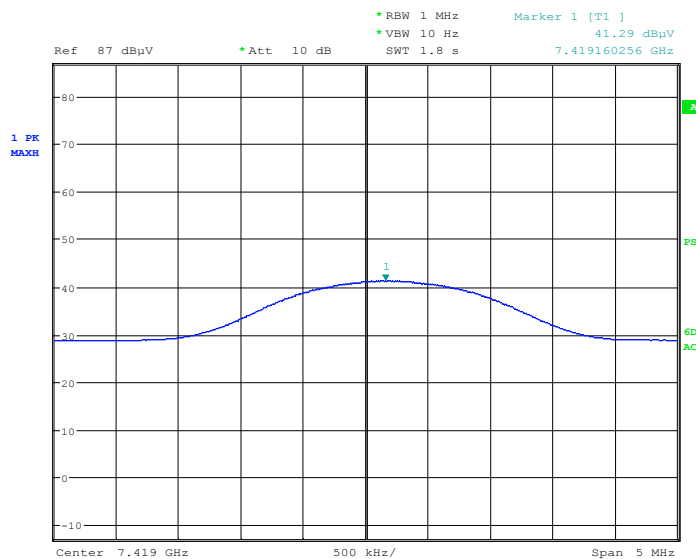
# High Channel: 2473MHz

## Pre-Scan Peak Horizontal & Vertical:

Full Spectrum



## Pre-Scan Average Horizontal:



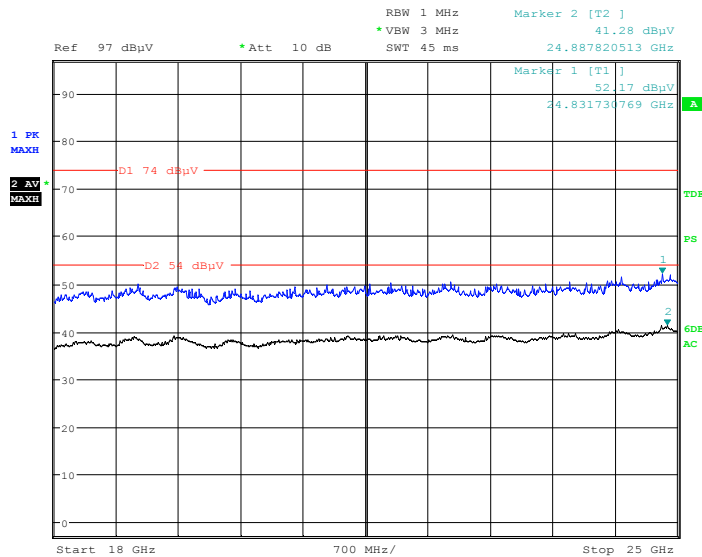
Date: 22.OCT.2018 11:01:27

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1234.60	40.96	---	200.0	H	272.0	-9.1	74.00	33.04
1234.60	---	23.41	200.0	H	272.0	-9.1	54.00	30.59
3709.80	52.30	---	200.0	V	154.0	-0.1	74.00	21.70
3709.80	---	34.89	200.0	V	154.0	-0.1	54.00	19.11
4946.00	52.87	---	150.0	H	339.0	2.0	74.00	21.13
4946.00	---	34.87	150.0	H	339.0	2.0	54.00	19.13
7419.00	68.84	---	100.0	H	302.0	9.5	74.00	5.16
7419.00	---	50.79	100.0	H	302.0	9.5	54.00	3.21
9894.40	62.07	---	150.0	H	229.0	12.4	74.00	11.93
9894.40	---	44.32	150.0	H	229.0	12.4	54.00	9.68
16221.80	53.85	---	100.0	V	81.0	13.3	74.00	20.15
16221.80	---	36.49	100.0	V	81.0	13.3	54.00	17.51

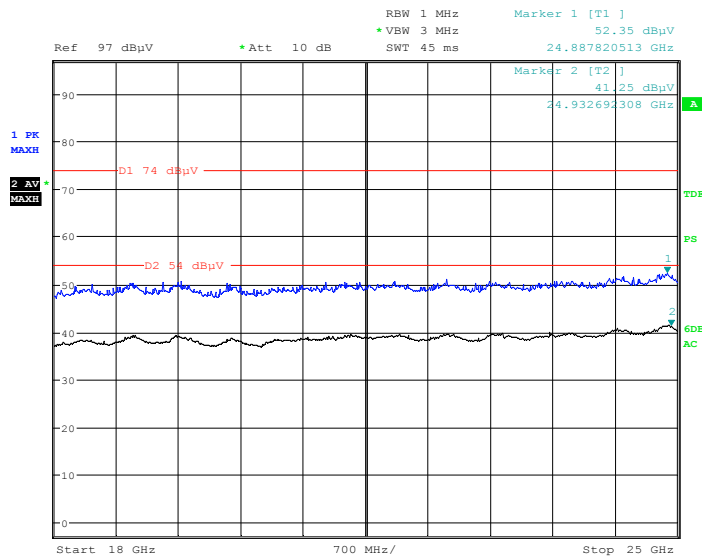


**18GHz-25GHz**

(Pre-scan with low, middle and high channels of operation in the X,Y and Z axes of orientation, the worst case **low** channel of operation in X-axis of orientation was recorded)

**Horizontal**

Date: 25.OCT.2018 16:51:43

**Vertical**

Date: 25.OCT.2018 17:20:23

**Fundamental Test & Restricted Bands Emissions Test:***(Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded.)*

Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
Low Channel: 2404MHz								
2404.00	103.52	---	200.0	H	160.0	6.1	114	10.48
2404.00	---	90.27	200.0	H	160.0	6.1	94	3.73
2404.00	101.13	---	250.0	V	327.0	6.1	114	12.87
2404.00	---	87.98	250.0	V	327.0	6.1	94	6.02
2400.00	---	46.83	250.0	H	337.0	6.0	54.00	7.17
2400.00	65.17	---	250.0	H	337.0	6.0	74.00	8.83
Middle Channel: 2439MHz								
2439.00	103.12	---	200.0	H	24.0	6.2	114	10.88
2439.00	---	90.15	200.0	H	24.0	6.2	94	3.85
2439.00	100.71	---	150.0	V	13.0	6.2	114	13.29
2439.00	---	87.65	150.0	V	13.0	6.2	94	6.35
High Channel: 2473MHz								
2473.00	102.54	---	250.0	H	128.0	6.3	114	11.46
2473.00	---	89.23	250.0	H	128.0	6.3	94	4.77
2473.00	100.05	---	150.0	V	256.0	6.3	114	13.95
2473.00	---	86.97	150.0	V	256.0	6.3	94	7.03
2483.50	63.58	---	200.0	H	352.0	6.3	74.00	10.42
2483.50	---	46.95	200.0	H	352.0	6.3	54.00	7.05

## **FCC §15.215(c) – 20 dB BANDWIDTH TESTING**

### **Applicable Standard**

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through § 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### **Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

### **Test Data**

#### **Environmental Conditions**

<b>Temperature:</b>	24.2°C
<b>Relative Humidity:</b>	50 %
<b>ATM Pressure:</b>	101.3kPa

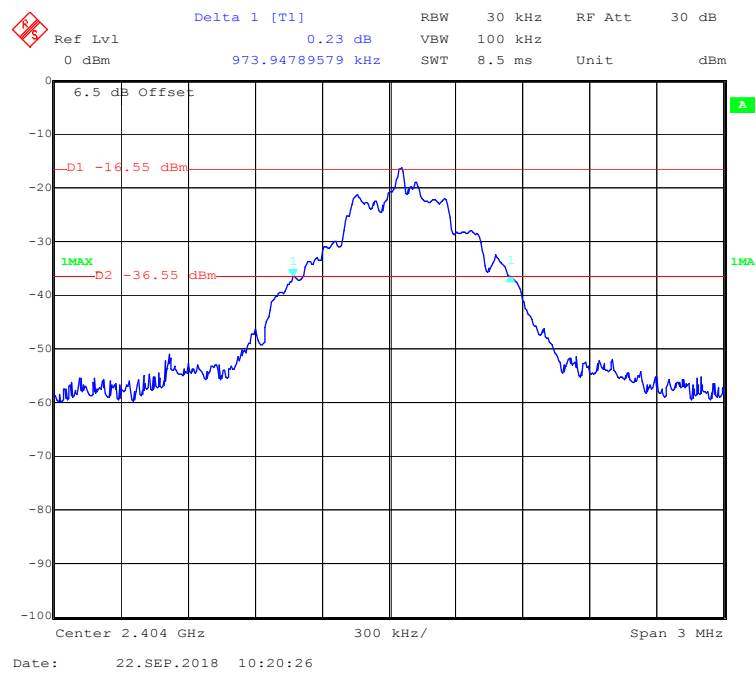
*The testing was performed by Hope Zhang on 2018-09-22.*

**Test Result:** Compliant.

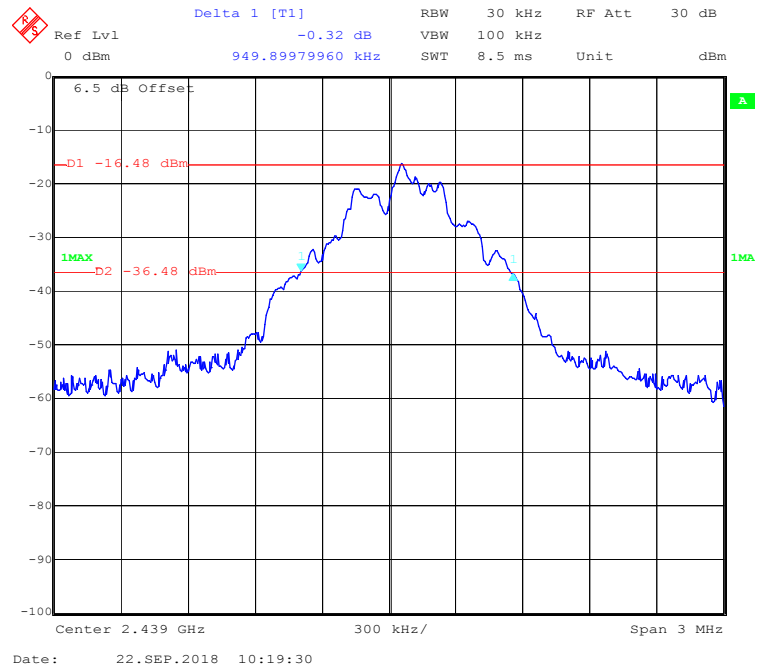
Test Mode: Transmitting

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2404.00	0.974
Middle	2439.00	0.950
High	2473.00	0.944

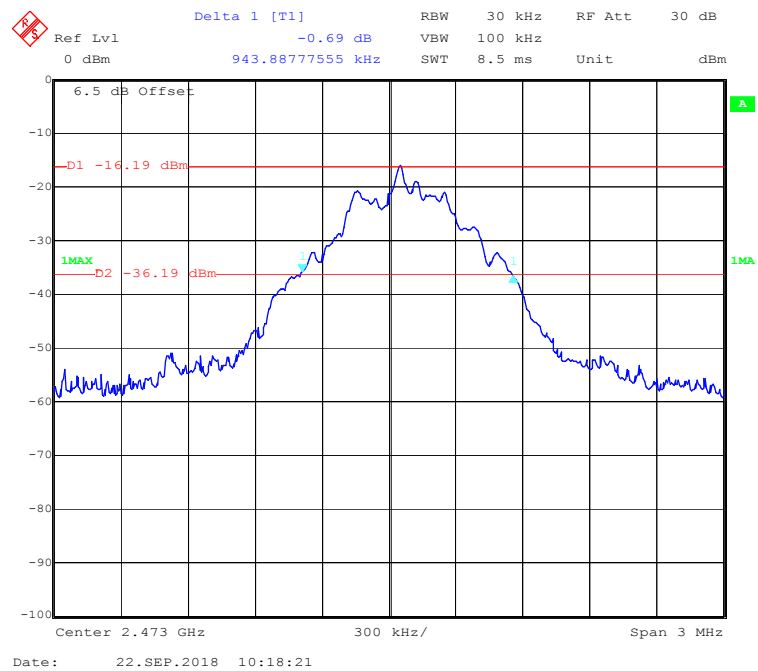
## Low Channel



### Middle Channel



### High Channel



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