

# TEST REPORT

FCC ID: 2BDBM-TW5-4

Product: RF Remote Control

Main test model: TW5-4

Serial models : TW1.TW2.TWS.TW4.TW5.TW1-4.TW2-4.TW4-4

Trade Mark: Skydance

Report No.: WSCT-ANAB-R&amp;E241200071A-2.4G

Issued Date: 23 December 2024

Issued for:

Guangzhou Skydance Co.,Ltd.

1-3F, No.19, ChuangYuan Road, Zhongcun Street, Panyu District,  
Guangzhou, China 511495

Issued By:

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Report No.: WSCT-ANAB-R&amp;E241200071A-2.4G

## 1. Test Certification

Product:	RF Remote Control
Model No.:	TW5-4
Trade Mark:	Skydance
Applicant:	Guangzhou Skydance Co.,Ltd. 1-3F, No.19, ChuangYuan Road, Zhongcun Street, Panyu District, Guangzhou, China 511495
Manufacturer:	Guangzhou Skydance Co.,Ltd. 1-3F, No.19, ChuangYuan Road, Zhongcun Street, Panyu District, Guangzhou, China 511495
Date of Test:	29 November 2024 to 22 December 2024
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Wang Xiang  
(Wang Xiang)Checked By: Qin Shuiquan  
(Qin Shuiquan)Approved By: Li Huaibi  
(Li Huaibi)Date: 23 December 2024

## 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	NA
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.



### 3. EUT Description

Product Name:	RF Remote Control
Model :	TW5-4
Trade Mark:	Skydance
Hardware version	C1
Operation Frequency:	2478MHz
Modulation Technology:	GFSK
Antenna Type:	Wire antenna
Antenna Gain:	2.5dBi.
Operating Voltage	Coin cell batteries:CR2032 Voltage: 3V
Remark:	N/A.

**NOTE:** TW5-4.TW1.TW2.TWS.TW4.TW5.TW1-4.TW2-4.TW4-4 are series models with only differences in appearance and color, while all other specifications are identical. TW5-4 is the main test model.

#### Operation Frequency each of channel

Frequency
2478MHz

## 4. General Information

### 4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.
The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

### 4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

#### Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



## 5. Facilities and Accreditations

### 5.1. Facilities

All measurement facilities used to collect the measurement data are located at **World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.**

**Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.2. ACCREDITATIONS

**ANAB - Certificate Number: AT-3951**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB). Certification Number: AT-3951



### 5.3. Measurement Uncertainty

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

No.	Item	MU
1	Power Spectral Density	$\pm 3.2\text{dB}$
2	Duty Cycle and Tx-Sequence and Tx-Gap	$\pm 1\%$
3	Medium Utilisation Factor	$\pm 1.3\%$
4	Occupied Channel Bandwidth	$\pm 2.4\%$
5	Transmitter Unwanted Emission in the out-of Band	$\pm 1.3\%$
6	Transmitter Unwanted Emissions in the Spurious Domain	$\pm 2.5\%$
7	Receiver Spurious Emissions	$\pm 2.5\%$
8	Conducted Emission Test	$\pm 3.2\text{dB}$
9	RF power, conducted	$\pm 0.16\text{dB}$
10	Spurious emissions, conducted	$\pm 0.21\text{dB}$
11	All emissions, radiated(<1GHz)	$\pm 4.7\text{dB}$
12	All emissions, radiated(>1GHz)	$\pm 4.7\text{dB}$
13	Temperature	$\pm 0.5^\circ\text{C}$
14	Humidity	$\pm 2.0\%$

## 5.4. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software	--	EZ-EMC	CON-03A	-	-
Test software	--	MTS8310	-	-	-
EMI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025
LISN	AFJ	LS16	16010222119	11/05/2024	11/04/2025
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025
Coaxial cable	Megalon	LMR400	N/A	11/05/2024	11/04/2025
GPIB cable	Megalon	GPIB	N/A	11/05/2024	11/04/2025
Spectrum Analyzer	R&S	FSU	100114	11/05/2024	11/04/2025
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2024	11/04/2025
Pre-Amplifier	CDSI	PAP-1G18-38	--	11/05/2024	11/04/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2024	11/04/2025
9*6*6 Anechoic	--	--	--	11/05/2024	11/04/2025
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	11/05/2024	11/04/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2024	11/04/2025
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2024	11/04/2025
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	11/05/2024	11/04/2025
Loop Antenna	EMCO	6502	00042960	11/05/2024	11/04/2025
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2024	11/04/2025
Power meter	Anritsu	ML2487A	6K00003613	11/05/2024	11/04/2025
Power sensor	Anritsu	MX248XD	--	11/05/2024	11/04/2025
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2024	11/04/2025



## 6. Test Results and Measurement Data

### 6.1. Antenna requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
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(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
<b>E.U.T Antenna:</b>	
The Bluetooth antenna is a Wire antenna. it meets the standards, and the best case gain of the antenna is 2.5dBi..	
Please refer to the attachment " TW5-4 Internal Photo" for the antenna location	

## 6.2. Conducted Emission

### 6.2.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.207														
<b>Test Method:</b>	ANSI C63.10:2014														
<b>Frequency Range:</b>	150 kHz to 30 MHz														
<b>Receiver setup:</b>	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
<b>Limits:</b>	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</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>	Frequency range (MHz)	Limit (dBuV)		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 (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
<b>Test Setup:</b>	<p>Reference Plane</p> <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
<b>Test Mode:</b>	Charging + Transmitting Mode														
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2014 on conducted measurement.</li> </ol>														
<b>Test Result:</b>	N/A														

## 6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

**Test data:**

Note: NA (This product is powered by a DC source and does not require testing for this project.)



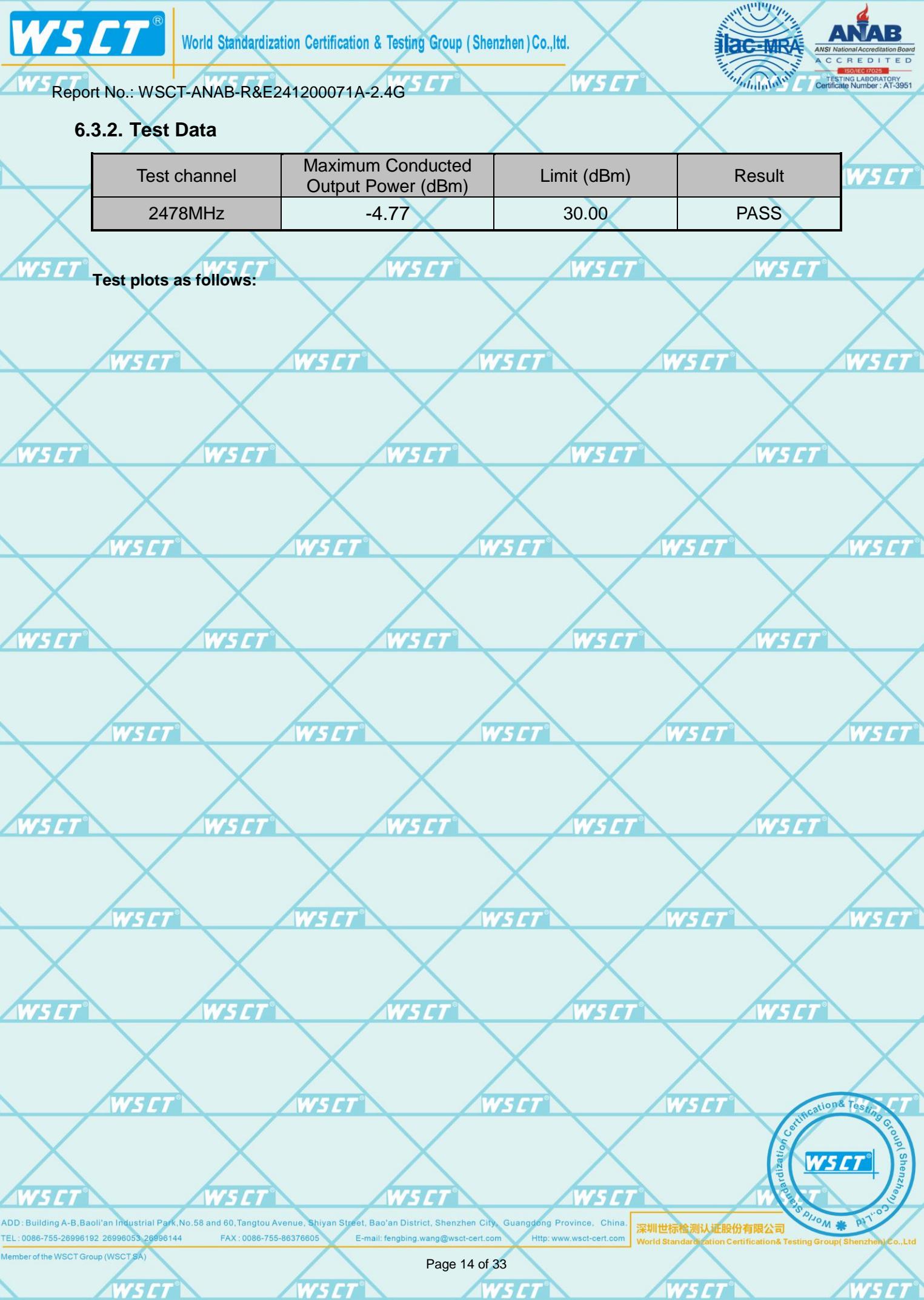
### 6.3. Conducted Output Power

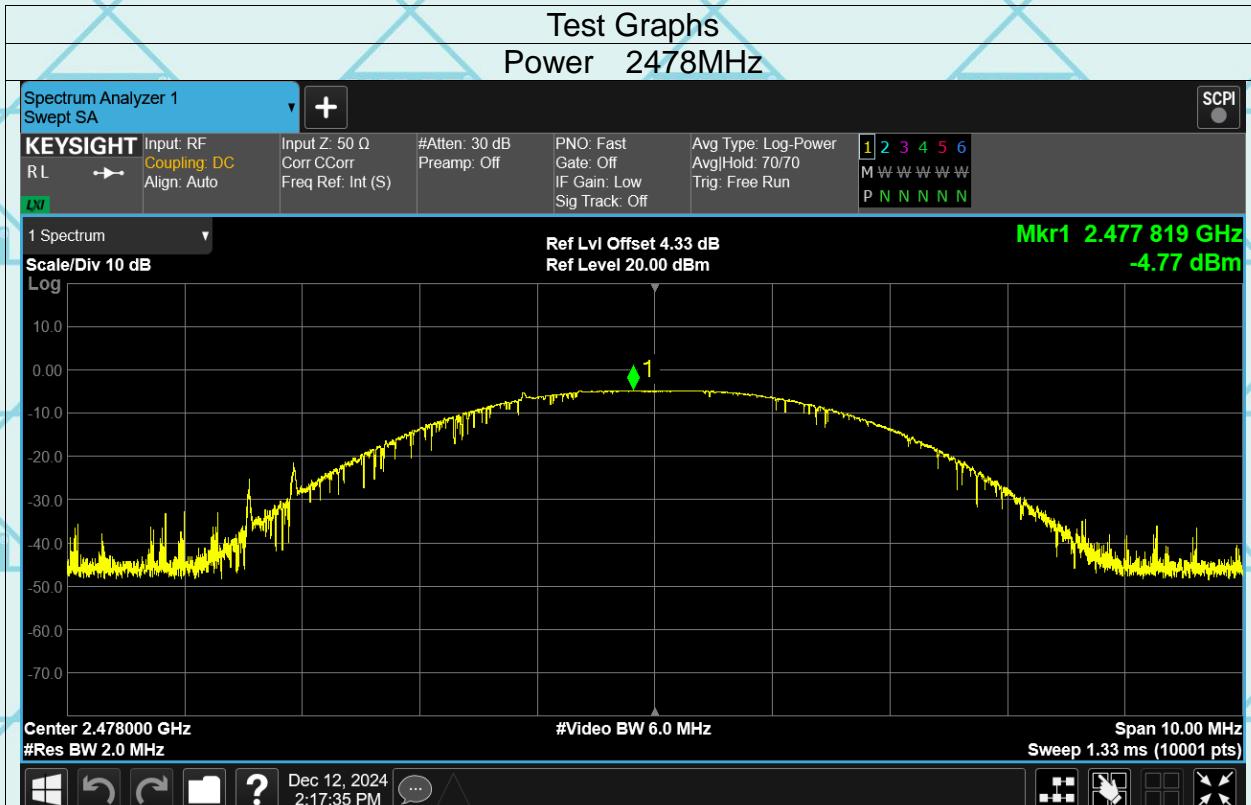
### 6.3.1. Test Specification

### 6.3.2. Test Data

Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
2478MHz	-4.77	30.00	PASS

Test plots as follows:





## 6.4. Emission Bandwidth

## 6.4.1. Test Specification

#### 6.4.2. Test data

Test channel	6dB Emission Bandwidth (kHz)		
	2478MHz	Limit	Result
Lowest	934.0	>500k	PASS

Test plots as follows:





## 6.5. Power Spectral Density

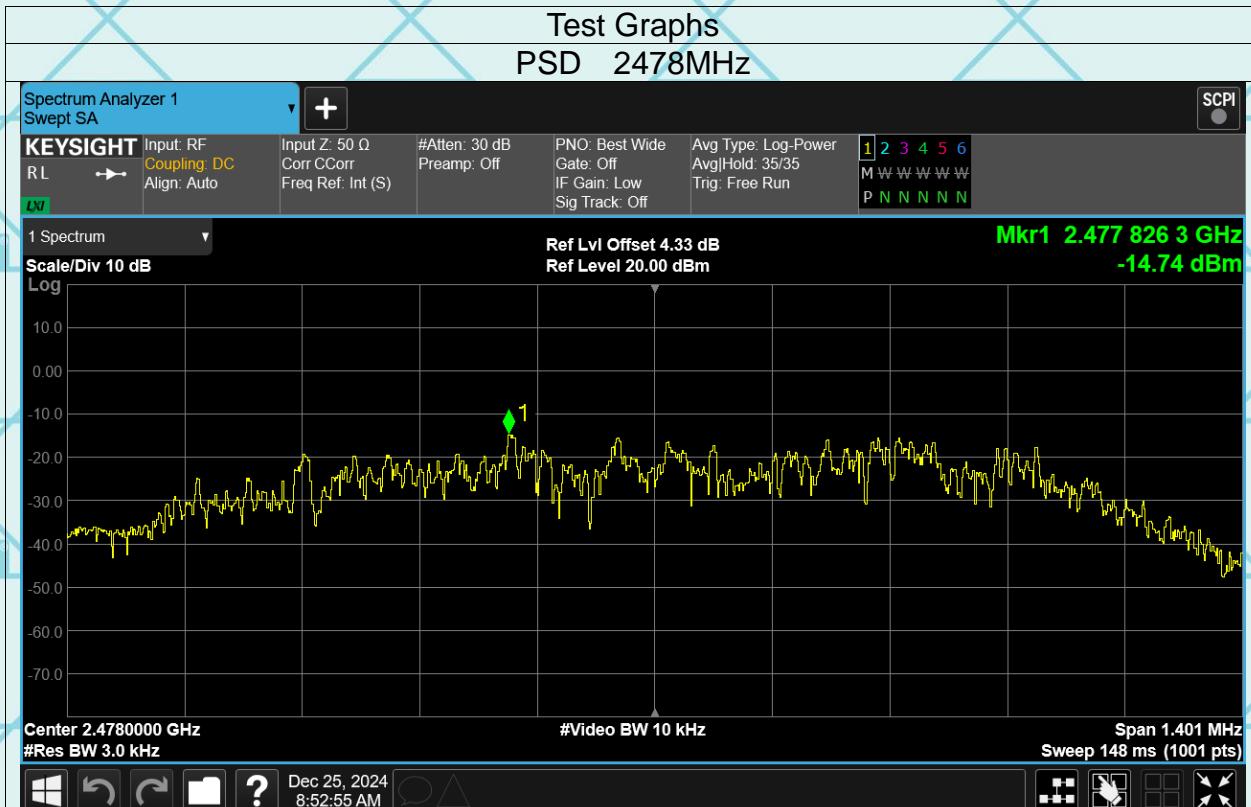
### 6.5.1. Test Specification

### 6.5.2. Test data

Test channel	Power Spectral Density (dBm/3kHz)		
	2478MHz	Limit	Result
Lowest	-14.74	8 dBm/3kHz	PASS

Test plots as follows:





## 6.6. Conducted Band Edge and Spurious Emission Measurement

## 6.6.1. Test Specification

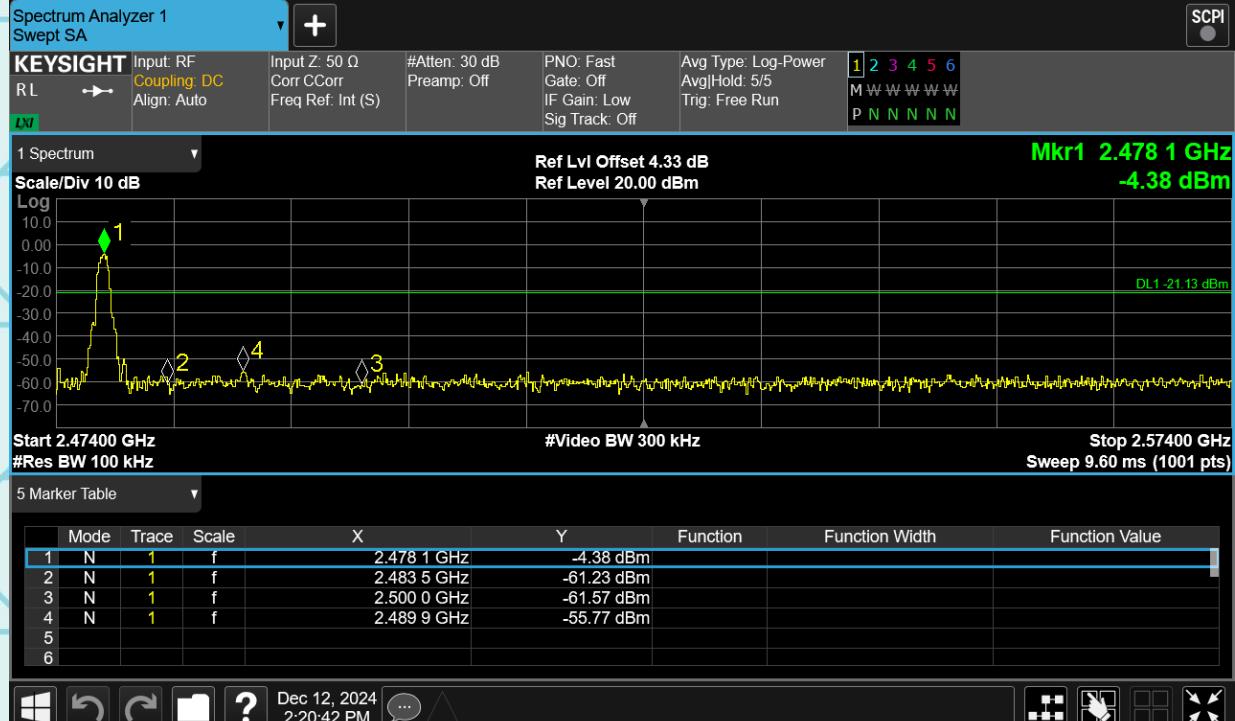
## Test Data

## Test Graphs

Band Edge 2478MHz Ref



## Band Edge 2478MHz Emission



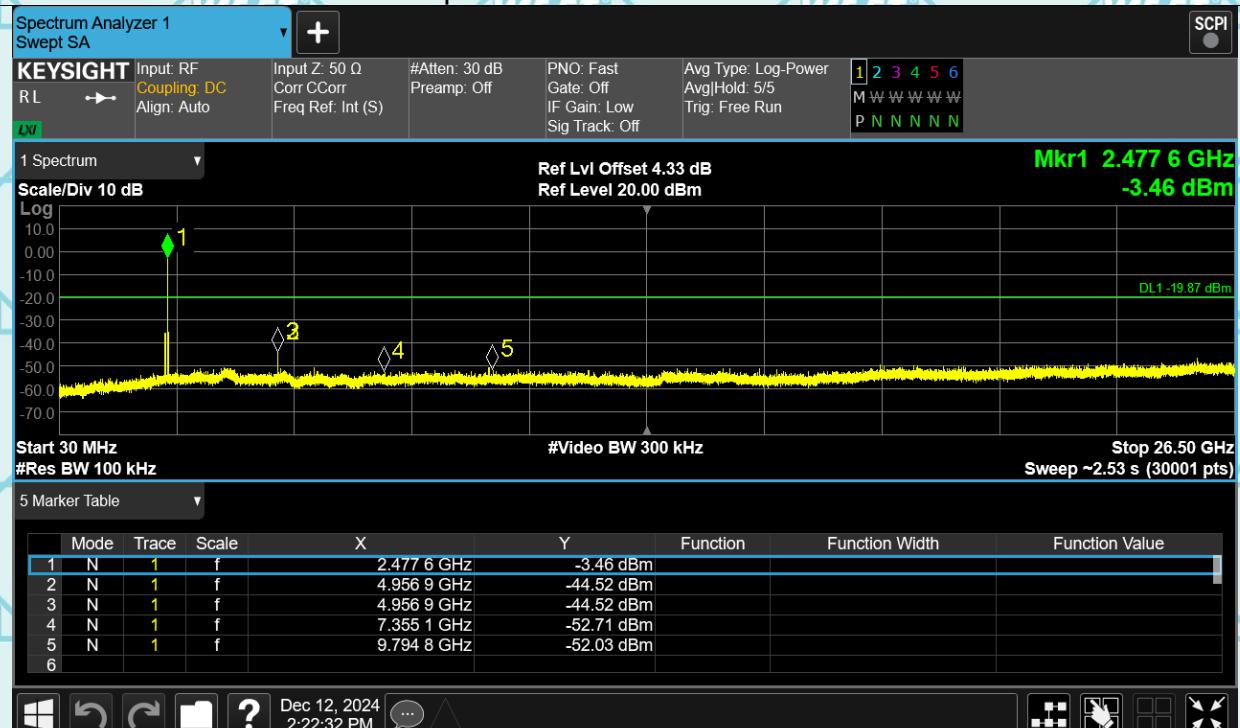
## Conducted RF Spurious Emission

## Test Graphs

## Tx. Spurious 2478MHz Ref

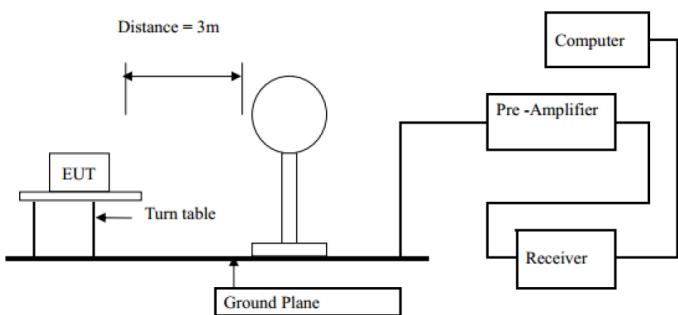


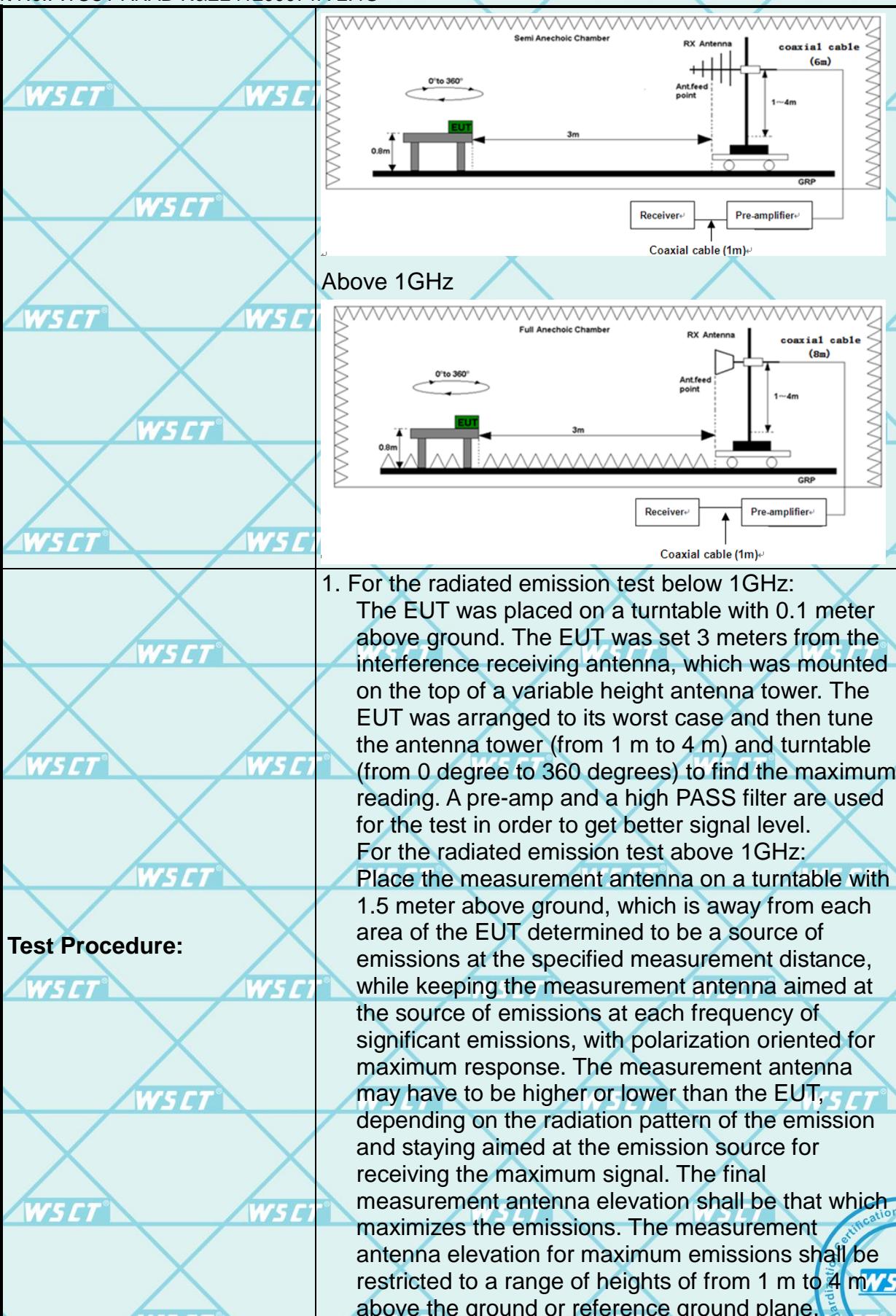
## Tx. Spurious 2478MHz Emission



## 6.7. Radiated Spurious Emission Measurement

### 6.7.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.209						
<b>Test Method:</b>	ANSI C63.10:2014						
<b>Frequency Range:</b>	9 kHz to 25 GHz						
<b>Measurement Distance:</b>	3 m						
<b>Antenna Polarization:</b>	Horizontal & Vertical						
<b>Operation mode:</b>	Refer to item 4.1						
<b>Receiver Setup:</b>	Frequency	Detector	RBW	VBW	Remark		
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
		Peak	1MHz	10Hz	Average Value		
<b>Limit:</b>	Frequency	Field Strength (microvolts/meter)		Measurement Distance (meters)			
	0.009-0.490	2400/F(KHz)		300			
	0.490-1.705	24000/F(KHz)		30			
	1.705-30	30		30			
	30-88	100		3			
	88-216	150		3			
	216-960	200		3			
	Above 960	500		3			
<b>Test setup:</b>	Frequency	Field Strength (microvolts/meter)		Measurement Distance (meters)	Detector		
	Above 1GHz	500		3	Average		
		5000		3	Peak		
For radiated emissions below 30MHz							
							
30MHz to 1GHz							



### Test Procedure:

	<p>2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>4. Use the following spectrum analyzer settings:</p> <ol style="list-style-type: none"> <li>(1) Span shall wide enough to fully capture the emission being measured;</li> <li>(2) Set RBW=100 kHz for <math>f &lt; 1</math> GHz; <math>VBW \geq RBW</math>; Sweep = auto; Detector function = peak; Trace = max hold;</li> <li>(3) Set RBW = 1 MHz, <math>VBW = 3</math> MHz for <math>f \geq 1</math> GHz for peak measurement.</li> </ol> <p>For average measurement: <math>VBW = 10</math> Hz, when duty cycle is no less than 98 percent. <math>VBW \geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
<b>Test mode:</b>	Refer to section 4.1 for details
<b>Test results:</b>	PASS

Note: Freq. = Emission frequency in MHz

Reading level (dB $\mu$ V) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dB $\mu$ V) = Reading level (dB $\mu$ V) + Corr. Factor (dB)

Limit (dB $\mu$ V) = Limit stated in standard

Margin (dB) = Level (dB $\mu$ V) - Limits (dB $\mu$ V)

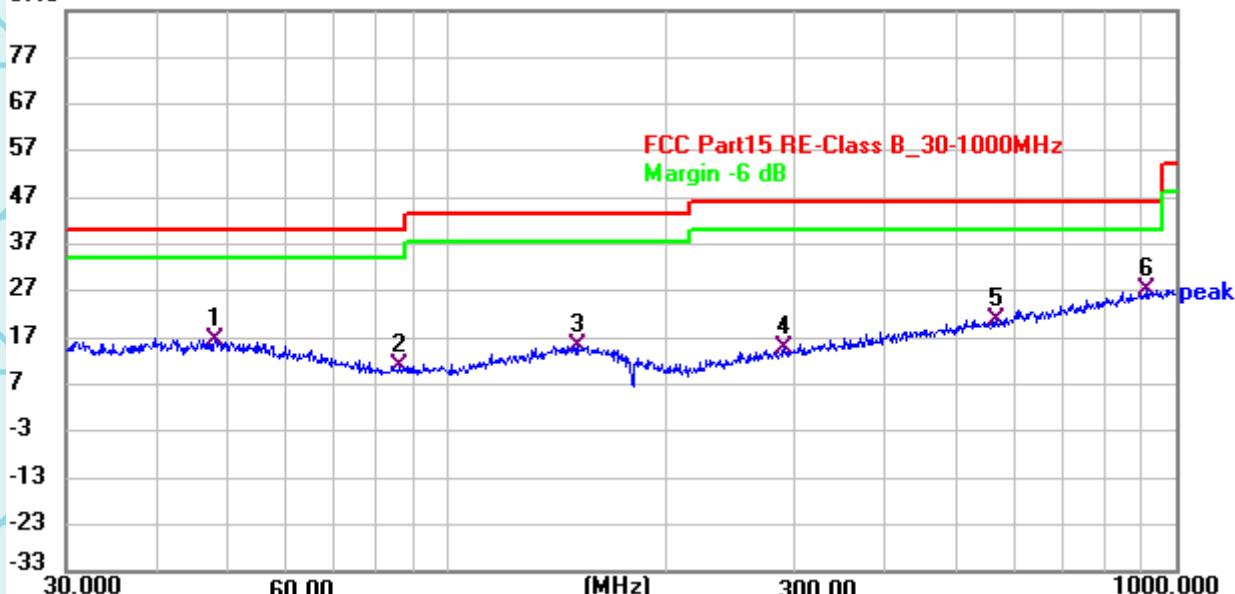


## 6.7.2. Test Data

Please refer to following diagram for individual  
Below 1GHz

Horizontal:

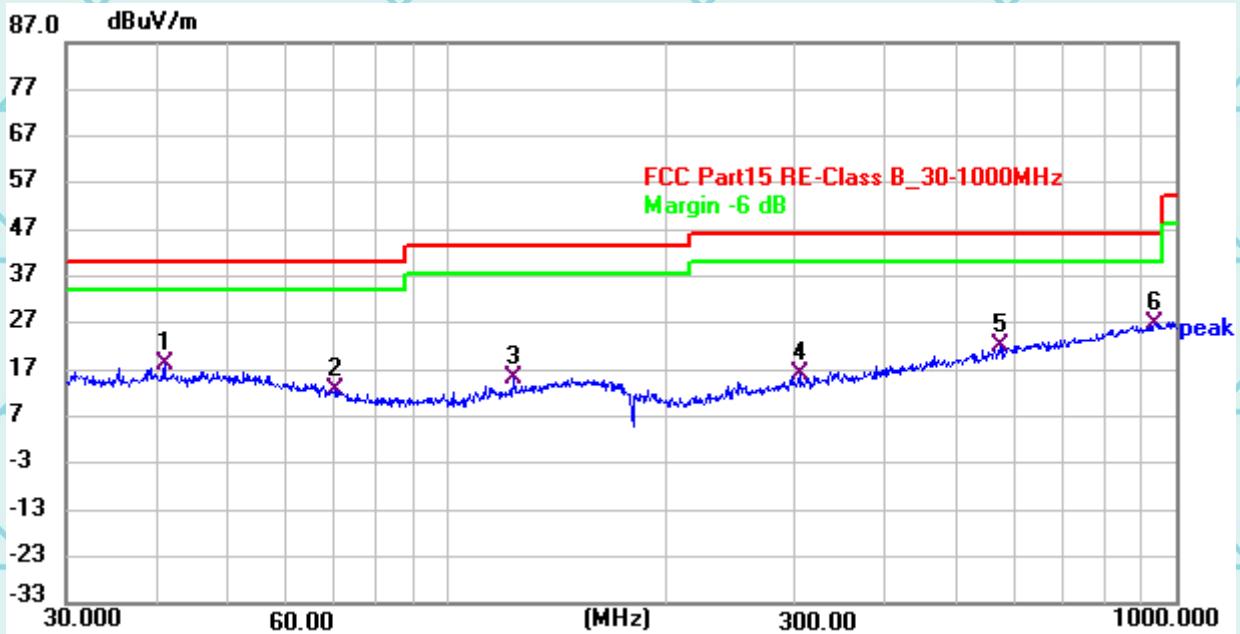
87.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.2894	35.44	-19.00	16.44	40.00	-23.56	QP
2	86.0114	34.92	-23.91	11.01	40.00	-28.99	QP
3	151.2652	34.89	-19.49	15.40	43.50	-28.10	QP
4	291.8024	35.45	-20.53	14.92	46.00	-31.08	QP
5	567.6166	35.54	-14.69	20.85	46.00	-25.15	QP
6 *	911.6625	36.96	-9.84	27.12	46.00	-18.88	QP



Vertical:



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	41.0420	36.94	-18.89	18.05	40.00	-21.95	QP
2	70.1518	34.91	-22.35	12.56	40.00	-27.44	QP
3	123.9155	36.13	-21.10	15.03	43.50	-28.47	QP
4	304.8771	36.03	-20.07	15.96	46.00	-30.04	QP
5	576.6443	36.40	-14.38	22.02	46.00	-23.98	QP
6 *	937.1881	36.46	-9.51	26.95	46.00	-19.05	QP

## Note1:

Freq. = Emission frequency in MHz

Reading level (dB $\mu$ V) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

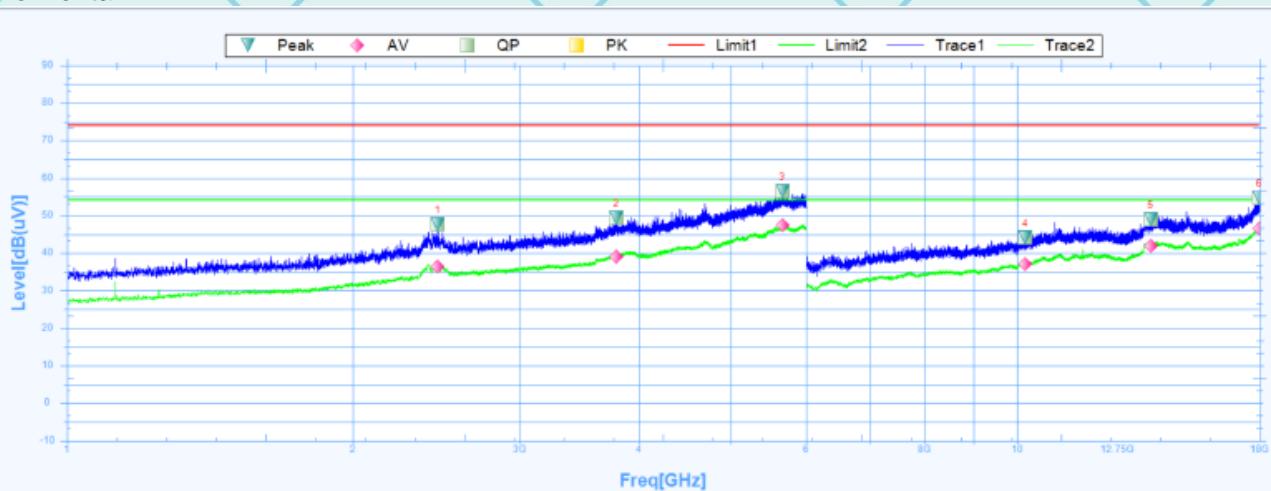
Measurement (dB $\mu$ V) = Reading level (dB $\mu$ V) + Corr. Factor (dB)Limit (dB $\mu$ V) = Limit stated in standardMargin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

## Above 1GHz

Note 1: The spurious above 18G is noise only, do not show on the report.

Test channel: 2478MHz

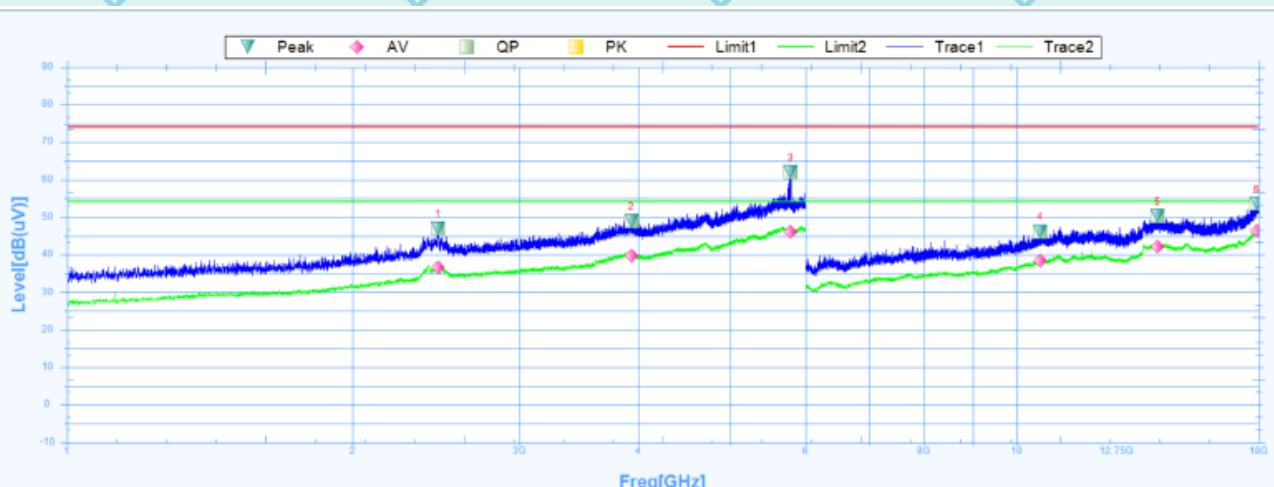
Horizontal:



## Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2456.8750	47.62	27.45	20.17	74	-26.38	88.4	Horizontal	PK	Pass
1	2456.8750	36.37	27.45	8.92	54	-17.63	88.4	Horizontal	AV	Pass
2	3788.1250	49.43	29.19	20.24	74	-24.57	151.7	Horizontal	PK	Pass
2	3788.1250	39.06	29.19	9.87	54	-14.94	151.7	Horizontal	AV	Pass
3	5661.8750	56.5	32.26	24.24	74	-17.5	290.4	Horizontal	PK	Pass
3	5661.8750	47.39	32.26	15.13	54	-6.61	290.4	Horizontal	AV	Pass
4	10204.5000	44.08	12.99	31.09	74	-29.92	240.7	Horizontal	PK	Pass
4	10204.5000	37.08	12.99	24.09	54	-16.92	240.7	Horizontal	AV	Pass
5	13824.0000	48.99	18.61	30.38	74	-25.01	351.1	Horizontal	PK	Pass
5	13824.0000	42.03	18.61	23.42	54	-11.97	351.1	Horizontal	AV	Pass
6	17976.0000	54.63	23.76	30.87	74	-19.37	110.5	Horizontal	PK	Pass
6	17976.0000	46.56	23.76	22.8	54	-7.44	110.5	Horizontal	AV	Pass

Vertical :

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2461.2500	47.08	27.47	19.61	74	-26.92	214.9	Vertical	PK	Pass
1	2461.2500	36.6	27.47	9.13	54	-17.4	214.9	Vertical	AV	Pass
2	3930.6250	49.05	29.53	19.52	74	-24.95	359.5	Vertical	PK	Pass
2	3930.6250	39.77	29.53	10.24	54	-14.23	359.5	Vertical	AV	Pass
3	5786.2500	62.08	32.46	29.62	74	-11.92	289	Vertical	PK	Pass
3	5786.2500	46.17	32.46	13.71	54	-7.83	289	Vertical	AV	Pass
4	10600.5000	46.22	14.32	31.9	74	-27.78	3.1	Vertical	PK	Pass
4	10600.5000	38.29	14.32	23.97	54	-15.71	3.1	Vertical	AV	Pass
5	14088.0000	50.29	19.04	31.25	74	-23.71	275.4	Vertical	PK	Pass
5	14088.0000	42.23	19.04	23.19	54	-11.77	275.4	Vertical	AV	Pass
6	17913.0000	53.69	23.34	30.35	74	-20.31	355.2	Vertical	PK	Pass
6	17913.0000	46.4	23.34	23.06	54	-7.6	355.2	Vertical	AV	Pass

**Note:**

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level+Probe Factor +Cable Loss.
3. Data of measurement within this frequency range shown “--” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

### 6.7.3. Restricted Bands Requirements

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dB $\mu$ V/m)	dB/m	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	H/V	
2483.5	62.00	-8.17	53.83	74	20.17	H	PK
2483.5	53.59	-8.17	45.42	54	8.58	H	AV
2483.5	64.49	-8.17	56.32	74	17.68	V	PK
2483.5	53.58	-8.17	45.41	54	8.59	V	AV

Note: Freq. = Emission frequency in MHz

Reading level (dB $\mu$ V) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dB $\mu$ V) = Reading level (dB $\mu$ V) + Corr. Factor (dB)

Limit (dB $\mu$ V) = Limit stated in standard

Margin (dB) = Level (dB $\mu$ V) – Limits (dB $\mu$ V)



## 7. Test Setup Photographs

Please refer to the attachment "Set Up Photos-15C" for relevant test setup photos

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

