

# RF TEST REPORT

Report No.: SHATBL2412030W01

**Applicant**: Fujian Iselected E-commerce Co., Ltd.

**Product Name** : 2.4GHz Wireless Mouse

Brand Name : N/A

Model Name : SPK7318

FCC ID : 2BMNP-SPK7318

Test Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.249

**Date of Receipt** : 2024.11.27

Date of Test : 2024.11.27~2024.12.31

**Issue Date** : 2024.12.31

(Chris Xu)

Report Approved by : Guszheng

(Ghost Li)

Authorized Signatory :

(Terry Yang)

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#### **REVISION HISTORY**

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>	F 25	REVISION HISTORY	200
Rev.	Issue Date	Revisions	Revised by
00	2024.12.31	Initial Release	100
1	23	1 30 X 30	E F
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#### **DECLARATION OF REPORT**

- 1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of 47 CFR 15.249. And it is applicable only to the tested sample identified in the report.
- 2. This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.
- 3. The general information of EUT in this report is provided by the customer or manufacture, ATBL is only responsible for the test data but not for the information provided by the customer or manufacture.
- 4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.
- 5. In this report, '□' indicates that EUT does not support content after '□', and '⊡' indicates that it supports content after '⊡'



# **SUMMARY OF TEST RESULT**

Report Section	Standard Section	Test Item	Judgment	Remark
3.1	§15.249&15.209	Radiated Emission	Compliant	125
3.2	§15.249	Band Edges	Compliant	7-3
3.3	§15.215	20dB Bandwidth	Compliant	1
3.4	§15.207	Conducted Emission	Not applicable	-
3.5	§15.203	Antenna Requirement	Compliant	130

Note: The EUT is battery operated without AC mains.



### 1. GENERAL DESCRIPTION

#### 1.1. Applicant

Name : Fujian Iselected E-commerce Co., Ltd.

Address : 15th Floor, Building A, Aofeng Plaza, No. 2 Aofeng Road, Taijiang District, Fuzhou

City, Fujian Province, China

#### 1.2. Manufacturer

Name : MMD (Shanghai) Electronic Technology Co., Ltd.

Address : Room107, Building 17 , No. 525 Yuanjiang Road, Minhang District, Shanghai,

China

#### 1.3. Factory

Name : Dongguan Lingjie Electronics Technology Co.,Ltd

Address : No. 23, Tianyuan Revitalization North Road, Dongguan City, Guangdong Province



# 1.4. General Information of EUT

	General Information				
Equipment Name	2.4GHz Wireless Mouse				
Brand Name	N/A				
Model Name	SPK7318				
Series Model	N/A				
Model Difference	N/A				
Antenna Gain	2.34dBi				
Antenna Type	PCB Antenna				
Sample No:	202410090006033				
Power Source	DC 1.5V For Battery				
Battery	Rated Voltage: 1.5V				
Hardware version	VER:1.2				
Software version	BK7.0				
Connecting I/O Port(s)	Refer to the remark below.				

#### Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



# 1.5. Equipment Specification

Equipment Specification				
Operation Frequency	2403.85 MHz to 2479.85 MHz			
Maximum field strength	For mouse:92.22dBuV/m(PK)@3m			
Modulation	GFSK			
Number of channels	16			
Antenna Designation	PCB antenna (Met 15.203 Antenna requirement)			

### 1.6. Modification of EUT

No modifications are made to the EUT during all test items.

# 1.7. Laboratory Information

Company :	Shanghai ATBL Technology Co., Ltd.
Address :	Building 8,No.160 Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone :	+86(0)21-51298625

# 1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

47 CFR Part 15 Subpart C §15.249

ANSI C63.10-2020

#### Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.



# 2. TEST CONFIGURATION OF EUT

# 2.1. Carrier Frequency Channel

Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH1	2403.85MHz	СН9	2441.85MHz
CH2	2407.85MHz	CH10	2445.85MHz
CH3	2414.85MHz	CH11	2453.85MHz
CH4	2419.85MHz	CH12	2459.85MHz
CH5	2422.85MHz	CH13	2463.85MHz
CH6	2426.85MHz	CH14	2466.85MHz
CH7	2436.85MHz	CH15	2473.85MHz
CH8	2439.85MHz	CH16	2479.85MHz

#### Remark:

Low Channel: CH01\_2403.85 MHz; Middle Channel: CH9\_2441.85 MHz; High Channel: CH16\_2479.85 MHz.



### 2.2. Test Modes

NO.		TEST MODE DESCRIPTION	
10	5. E.	Low channel GFSK	F 13
2	23	Middle channel GFSK	F 31
3	F 3	High channel GFSK	. 5.

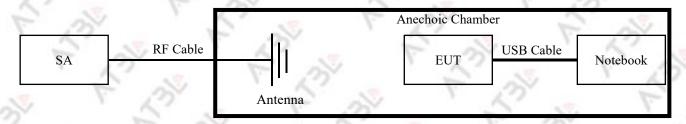
#### Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT adjusts the frequency through the button.

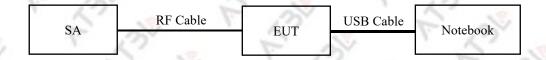


### 2.3. Block Diagram of Test System

#### 2.3.1. For Radiated Spurious Emission



#### 2.3.2. For Conducted Test



### 2.4. Description of Support Units

NO.	Unit	Brand	Model	Description
1	1	I	1	CON I F CON
2	1,00	1	, I	- 3× 1 E

#### 2.5. Test Software and Power Level

During the test, the channel and power control software provided by the customer is used to control the operation channel and output power level.

#### 2.6. EUT Operating Conditions

For AC power-line conducted emission, the EUT was connected under the large package sizes transmission.

For radiated spurious emission and conducted test, the engineering test program was provided and make the EUT to continuous transmit/receive.



# 2.7. Equipment List

# 2.7.1. For AC Power-Line Conducted Emission

Equipment Name	Manufacturer	Model	Serial No.	Equipment No.	Calibration Until	Note
Test Receiver	R&S	ESPI	101679	SHATBL-E012	2025.05.21	23
LISN	R&S	ENV216	100300	SHATBL-E013	2025.05.21	F 23
LISN	R&S	ENV216	100333	SHATBL-E041	2025.05.21	E
Thermometer	DeLi	N/A	N/A	SHATBL-E016	2025.09.19	
Test Software	FALA	EZ-EMC	N/A	SHATBL-E046	N/A	~

# 2.7.2. For Radiated Spurious Emission

Equipment Name	Manufacturer	Model	Serial No.	Equipme nt No.	Calibration Until	Note
Signal analyzer	Agilent	N9020A	MY50200811	SHATBL- E017	2025.05.21	1.
Amplifier	JPT	JPA0118-55-3 03A	191000180005 5000	SHATBL- E006	2025.05.21	SV
Amplifier	JPT	JPA-10M1G32	210101000350 01	SHATBL- E005	2025.05.21	200
Antenna/T urn table Controller	Brilliant	N/A	N/A	SHATBL- E007	N/A	6
Loop Antenna	Daze	ZN30900C	20077	SHATBL- E042	2025.05.21	1.
Bilog Antenna	SCHWARZBE CK	VULB 9168	01174	SHATBL- E008	2025.05.21	201
Broad-ban d Horn Antenna	SCHWARZBE CK	BBHA 9120D	02334	SHATBL- E009	2025.05.21	135
Horn Antenna	COM-POWER	AH-1840	10100008	SHATBL- E043	2025.05.21	F
Thermome ter	DeLi	N/A	N/A	SHATBL- E015	2025.09.19	I.
Test Software	FALA	EMC-RI	N/A	SHATBL- E046	N/A	200

Remark: Calibration duration for above equipments is 1 year.



# 2.8. 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 %.

		7
No.	Item	Uncertainty
1	RF output power, conducted	±0.958dB
2	Conducted spurious emissions(9KHz~30MHz)	±2.988dB
200	All emissions, radiated 9KHz~30MHz	±0.89dB
3	All emissions, radiated 30MHz-1GHz	±2.50dB
4	All emissions, radiated Above1GHz	±3.51dB
5	Occupied bandwidth	±23.20Hz



# 3. TEST RESULT

### 3.1. Radiated Emission

### 3.1.1. Radiated Emission Limit

### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0- <mark>24</mark> .25GHz	250	2500

#### Standard FCC 15.209

Frequency	Distance	Distance Field St	
(MHz)	Meters	μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	X2,
1.705 ~ 30	30	30	- F 3
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(µV)/ (Average)	m (Peak) 54.0 dB(μV)/m

Remark:

- (1) Emission level dB $\mu$ V = 20 log Emission level  $\mu$ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



#### 3.1.2. Test Procedure

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.



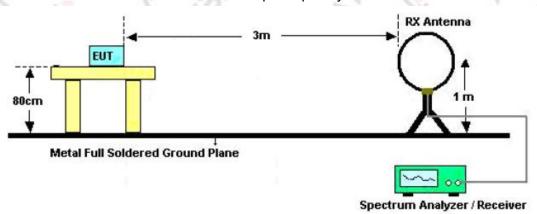
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting	
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP	
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP	
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP	
F 37	1GHz~26.5GHz	
Start ~Stop Frequency	RBW 2.4MHz/ VBW 8MHz for Peak,	
V 13 5	RBW 2.4MHz/10Hz for Average	

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

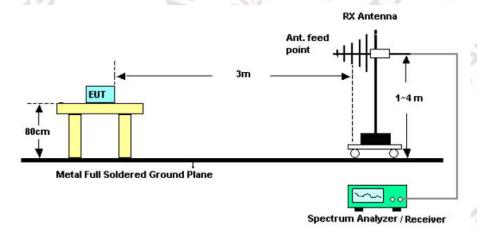
# 3.1.3. Test Setup

### Radiated Emission Test-Setup Frequency Below 30MHz

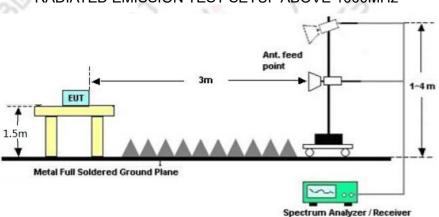




# RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz





#### 3.1.4. Test Result

For 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

For 30 MHz ~ 1 GHz:

For Mouse:

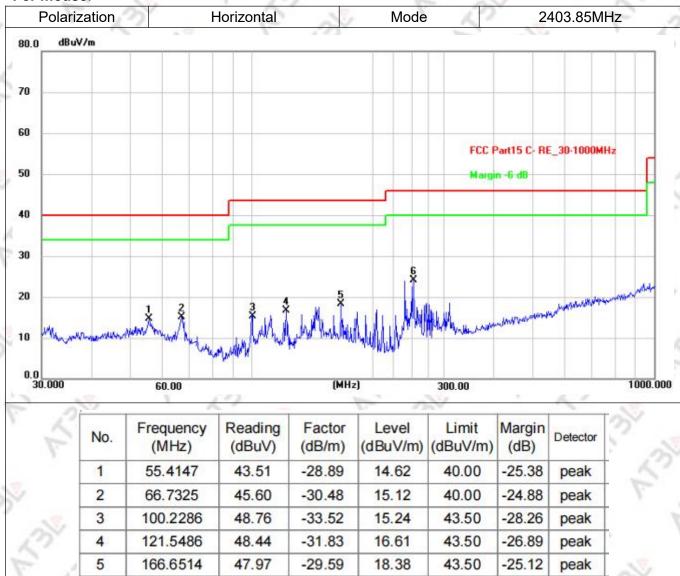
#### Note:

- 1. All modes have been tested, only worst case(2403.85MHz) mode was recorded in the test report.
- 2.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. The emission levels of other frequencies were less than 20dB margin against the limit.
- 5. Margin value = Emission level-Limit value.

#### For mouse:

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252.0627



-30.67

24.11

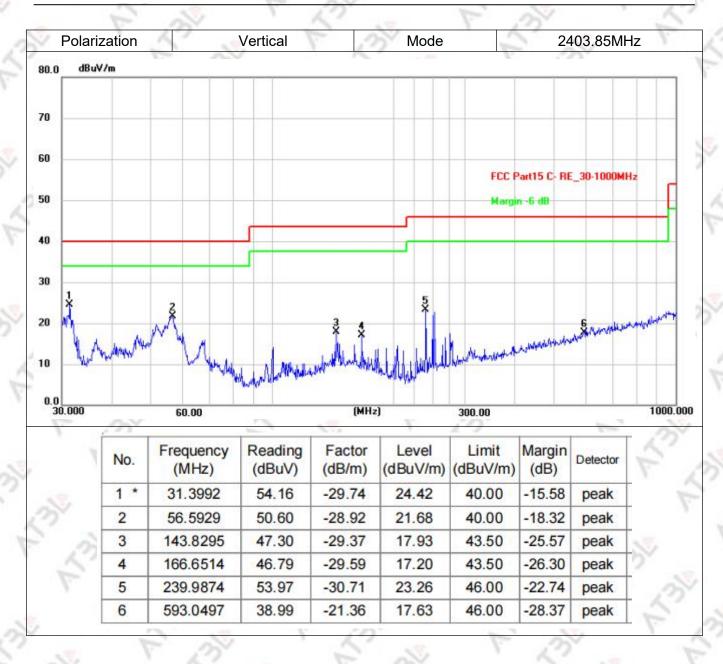
46.00

-21.89

peak

54.78





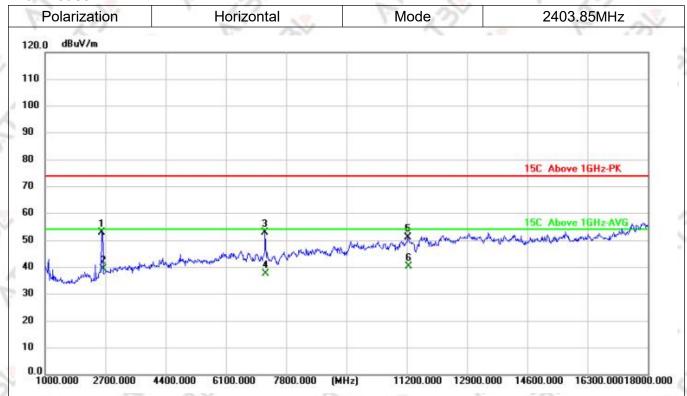


#### For 1 GHz ~ 18GHz:

#### Note:

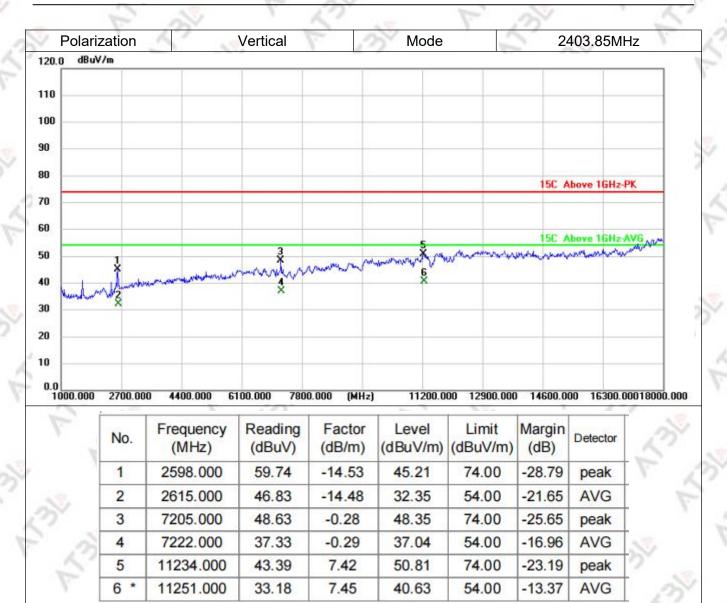
- 1. The all data rate modes had been test, but only worse test data was recorded in the test report.
- 2.In frequency ranges 18 ~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.
- 3. We used the filter to test and the main frequency was filtered out.
- 4.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
- 5. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 6. The emission levels of other frequencies were less than 20dB margin against the limit.
- 7. Margin value = Emission level-Limit value.

#### For mouse:

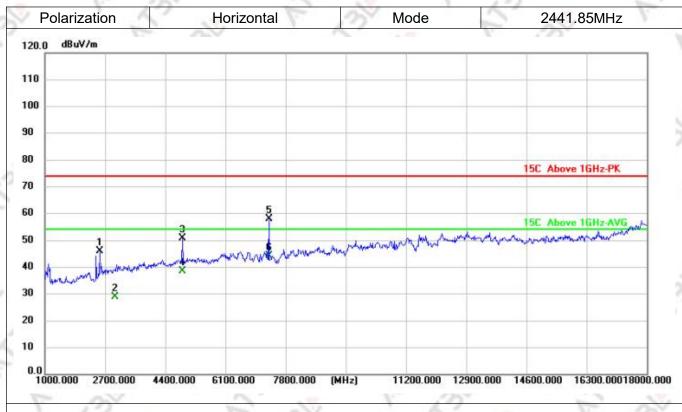


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2598.000	67.43	-14.53	52.90	74.00	-21.10	peak
2	2632.000	53.95	-14.44	39.51	54.00	-14.49	AVG
3	7205.000	53.23	-0.28	52.95	74.00	-21.05	peak
4	7222.000	37.93	-0.29	37.64	54.00	-16.36	AVG
5	11234.000	43.65	7.42	51.07	74.00	-22.93	peak
6 *	11251.000	32.97	7.45	40.42	54.00	-13.58	AVG



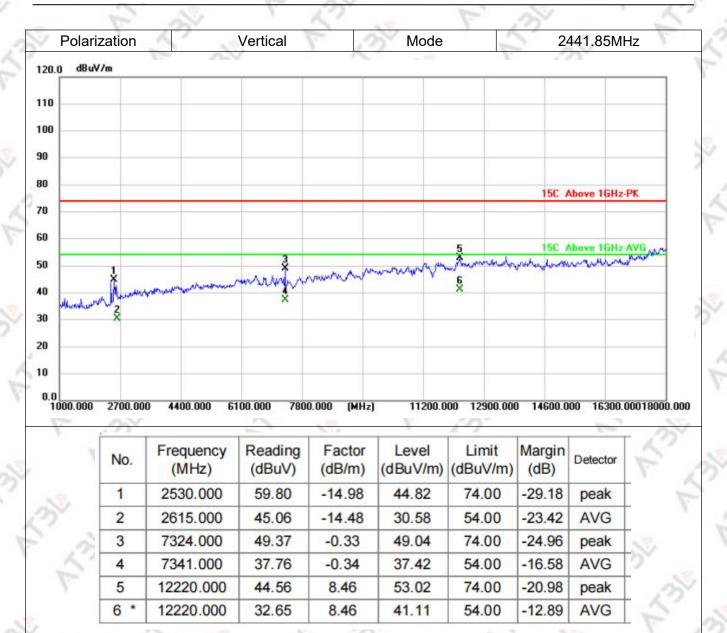




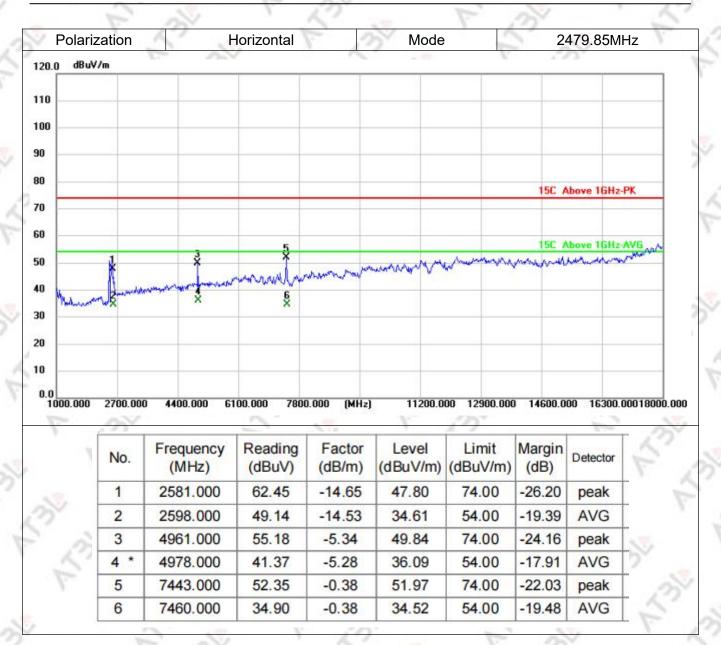


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2547.000	60.88	-14.87	46.01	74.00	-27.99	peak
2	2989.000	41.37	-12.53	28.84	54.00	-25.16	AVG
3	4876.000	56.55	-5.64	50.91	74.00	-23.09	peak
4	4893.000	44.02	-5.57	38.45	54.00	-15.55	AVG
5	7324.000	58.41	-0.33	58.08	74.00	-15.92	peak
6 *	7341.000	44.55	-0.34	44.21	54.00	-9.79	AVG

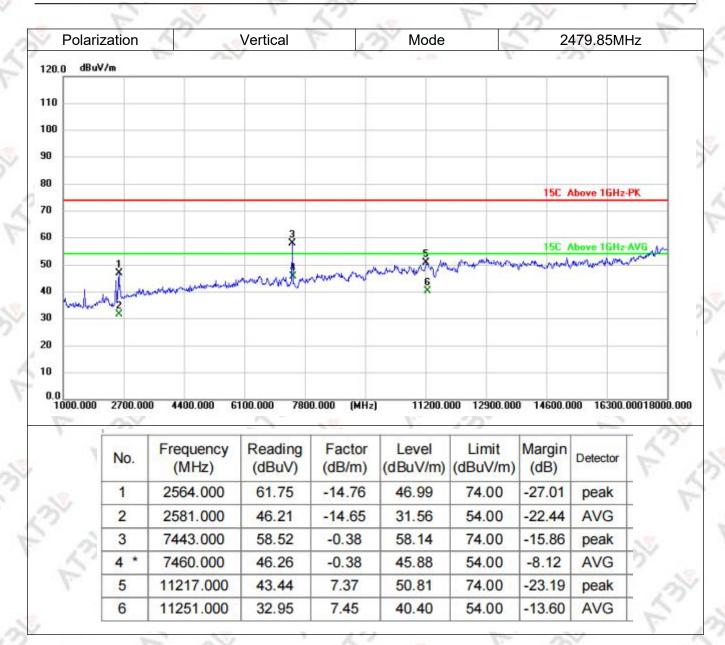














# Field Strength of Fundamental

#### Note:

- 1. Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

Freq. (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuV/m)	Margin (dB)	Remark	Polarity
2403.85	106.72	-15.83	90.89	114	-23.11	Peak	Horizontal
2403.85	72.66	-15.83	56.83	94	-37.17	Average	Horizontal
2403.85	102.61	-15.83	86.78	114	-27.22	Peak	Vertical
2403.85	69.58	-15.83	53.75	94	-40.25	Average	Vertical
2441.85	104.23	-15.56	88.67	114	-25.33	Peak	Horizontal
2441.85	69.88	-15.56	54.32	94	-39.68	Average	Horizonta
2441.85	101.05	-15.56	85.49	114	-28.51	Peak	Vertical
2441.85	68.45	-15.56	52.89	94	-41.11	Average	Vertical
2479.85	107.54	-15.32	92.22	114	-21.78	Peak	Horizontal
2479.85	71.27	-15.32	55.95	94	-38.05	Average	Horizontal
2479.85	101.64	-15.32	86.32	114	-27.68	Peak	Vertical
2479.85	69.58	-15.32	54.26	94	-39.74	Average	Vertical



# 3.2. Band edge Test

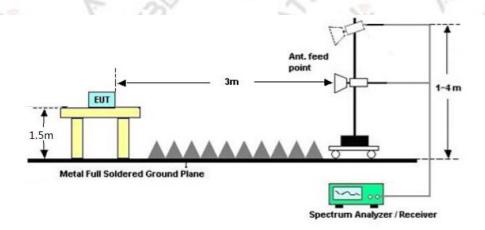
#### 3.2.1. Limit

	Limit of the Field Strength (dBμV/m)			
Frequency Band	Peak	Average		
f≤2390MHz	74	54		
f≥2483.5MHz	74	54		

### 3.2.2. Test Procedure

- 1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO (b) AVERAGE: RBW=1MHz; VBW=1/on time(1KHz) / Sweep=AUTO

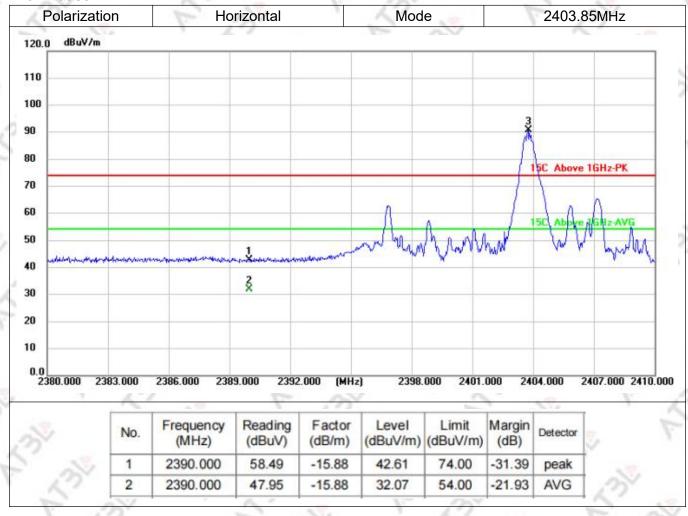
#### 3.2.3. Test Setup



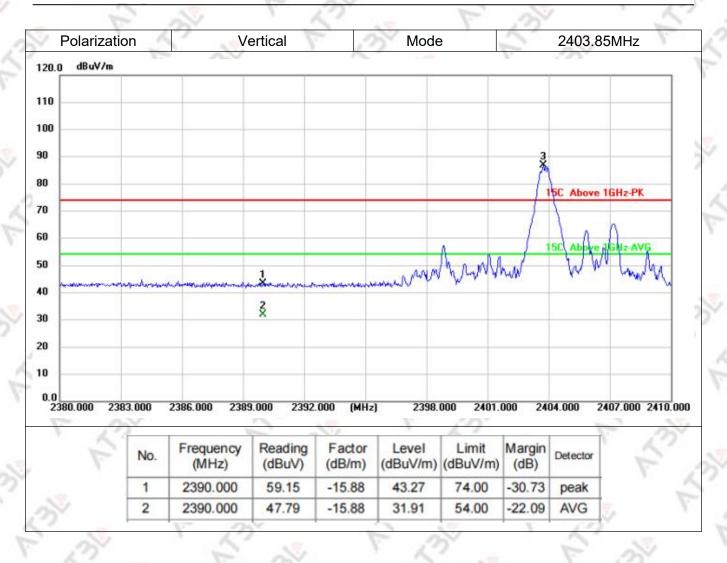


#### 3.2.4. Test Result

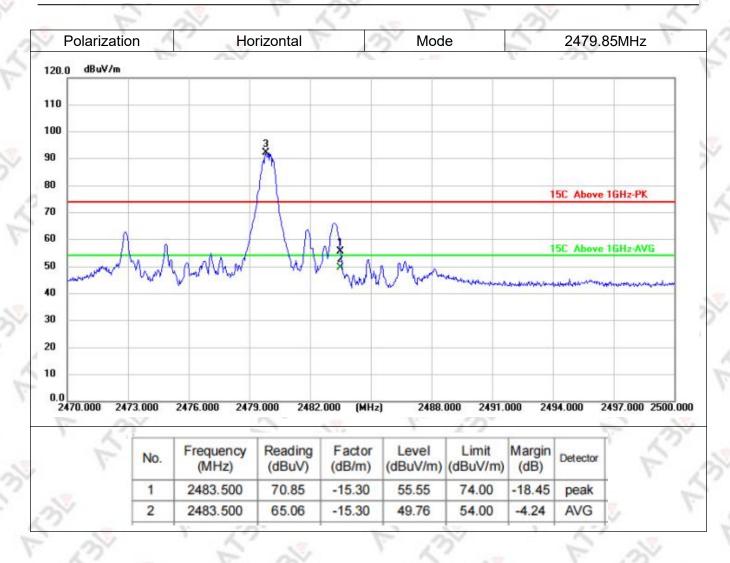
#### For Mouse:



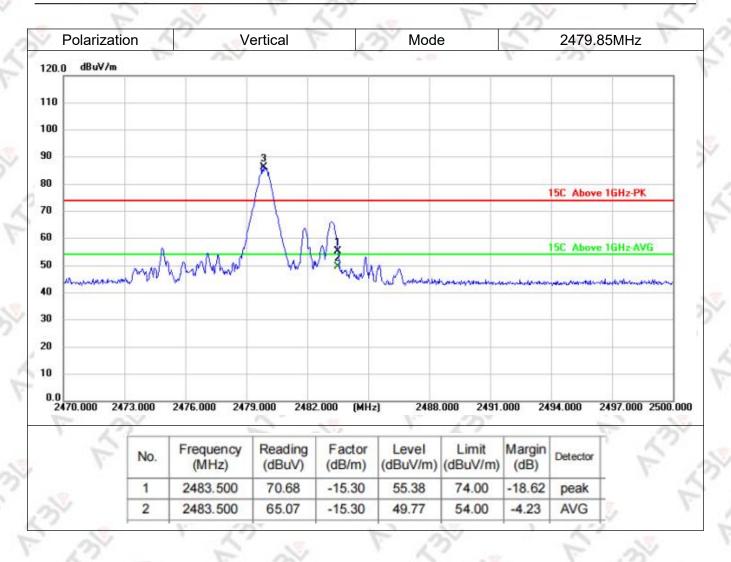












#### **REMARKS**:

- 1.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level-Limit value.



#### 3.3. 20dB Bandwidth

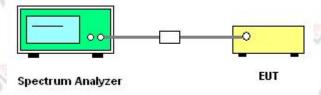
#### 3.3.1. Limit

There is no limit requirement for 20dB Bandwidth.

#### 3.3.2. Test Procedure

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW ≥ 3×RBW.
- 3. Set SPA Trace 1 Max hold, then View.

#### 3.3.3. Test Setup





#### 3.3.4. Test Result of 20dB Bandwidth

TEST ITEM	20DB BANDWIDTH	F 250
TEST MODULATION	GFSK	6 20

#### For mouse:

Test Date	Criteria	
Low Channel	2.021	PASS
Middle Channel	2.020	PASS
High Channel	2.027	PASS

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





#### 3.4. AC Power-Line Conducted Emission

#### 3.4.1. Limit

<u>47 CFR 15.207(a)</u>: For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table:

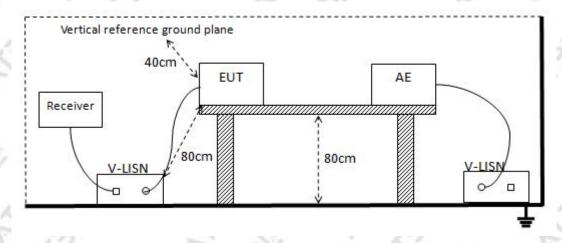
Fraguency of amission (MUZ)	Conducted	l limit (dBµV)
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.4.2. Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
  - 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
  - 3. All the support units are connecting to the other LISN.
  - 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
  - 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
  - 6. Both sides of AC line were checked for maximum conducted interference.
  - 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

#### 3.4.3. Test Setup





#### 3.4.4. Test Result of AC Power-Line Conducted Emission

Note:

The product is battery powered and it is not working when charging, this item is not applicable.



# 3.5. Antenna Requirement

### 3.5.1. Standard Requirement

According to <u>47 CFR 15.203</u>, 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.

#### 3.5.2. EUT Antenna

The antenna used for the EUT is PCB antenna, which meets the antenna requirements.



### 4. TEST SETUP PHOTOGRAPHS

Please refer to the Appendix F.

# 5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Please refer to the Appendix G.

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