

TEST REPORT

Report No..... : 2021-90038-1

FCC ID..... : 2A3ZM-ECT105W

Applicant..... : Sektor Group Ltd.

Address..... : 525 Great South Road, Penrose, Auckland, New Zealand 1061

Manufacturer..... : Sektor Group Ltd.

Address..... : 525 Great South Road, Penrose, Auckland, New Zealand 1061

Product Name..... : Keyboard

Trade Mark..... : **element™**

Model/Type reference..... : ECT105W

Listed Model(s)..... : ATM-PK99, ATM-PK99W, ATM-PK100W, ATM-PK110W

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

Date of Receipt..... : December 17, 2021

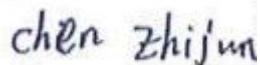
Date of Test Date..... : December 17, 2021 ~ January 13, 2022

Date of issue..... : January 13, 2022

Test result..... : **Pass**

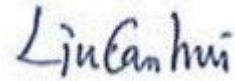
Compiled by:

(Printed name + Signature) Chen Zhijun



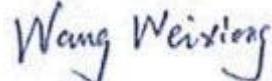
Supervised by:

(Printed name + Signature) Liu Canhui



Approved by:

(Printed name + Signature) Wang Weixiong



Testing Laboratory Name..... : **K-SIGN Testing Co., Ltd.**

Address..... : Building 5, No. 316, Jianghong South Road Binjiang District, Hangzhou 310052, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version

Revised No.	Date of issue	Description
01	January 13, 2022	Original

1.3. Test Description

FCC Rules Part 15.249			
Test Item	Section in CFR 47	Result	Test Engineer
	FCC		
Antenna requirement	15.203	Pass	Chen Zhijun
AC Power Line Conducted Emissions	15.207	Pass	Chen Zhijun
20dB Bandwidth	Section 15.215(c)	Pass	Chen Zhijun
Band edge Emissions	Section 15.249(d)	Pass	Chen Zhijun
Field Strength of Fundamental	Section 15.209	Pass	Chen Zhijun
Radiated Spurious Emissions	Section 15.205(a),Section 15.209(a), Section 15.249	Pass	Chen Zhijun

Note:

1. The measurement uncertainty is not included in the test result.
2. The product is battery powered.

1.4. Table of Carrier Frequency

Frequency Band	Channel Number	Frequency	Channel Number	Frequency
2400~2483.5MHZ	1	2405MHz	9	2440MHz
	2	2409MHz	10	2445MHz
	3	2413MHz	11	2450MHz
	4	2417MHz	12	2455MHz
	5	2422MHz	13	2460MHz
	6	2426MHz	14	2465MHz
	7	2430MHz	15	2470MHz
	8	2435MHz	16	2476MHz

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the KSIGN(Guangdong) Testing Co., Ltd. system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Below is the best measurement capability for KSIGN(Guangdong) Testing Co., Ltd.

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	2.80 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Sektor Group Ltd.
Address:	525 Great South Road, Penrose, Auckland, New Zealand 1061
Manufacturer:	Sektor Group Ltd.
Address:	525 Great South Road, Penrose, Auckland, New Zealand 1061

2.2. General Description of EUT

Product Name:	Keyboard
Trade Mark:	element™
Model/Type reference:	ECT105W
Listed Model(s):	ATM-PK99, ATM-PK99W, ATM-PK100W, ATM-PK110W
Model Different:	The difference between product models only depends on the different appearance colors of the models and the different keyboard layouts of different models. Other power supply methods, internal structures, circuits and key components are the same, and do not affect safety and electromagnetic compatibility.
Power supply:	DC 5 V
Power supply(Battery):	DC 3.7V, 1100mAh, 4.07Wh
Hardware version:	V1.0
Software version:	V1.0.0
Specification	
Modulation:	FSK
Operation frequency:	2405MHz-2476MHz
Channel number:	16
Antenna type:	PCB antenna
Antenna gain:	0dBi

2.3. Description of Test Modes

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency: 2405MHz/2430MHz/2476MHz

Test mode

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

2.4. Measurement Instruments List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101798	03/22/2022
2	Vector Signal Generator	Agilent	N5182A	MY50142520	03/18/2022
3	Analog Signal Generator	HP	83752A	3344A00337	03/18/2022
4	Power Sensor	Agilent	E9304A	MY50390009	03/18/2022
5	Power Sensor	Agilent	E9300A	MY41498315	03/18/2022
6	Wideband Radio Communication Tester	R&S	CMW500	157282	03/18/2022
7	Climate Chamber	Angul	AGNH80L	1903042120	03/18/2022
8	Dual Output DC Power Supply	Agilent	E3646A	MY40009992	03/18/2022
9	RF Control Unit	Tonscend	JS0806-2	/	03/18/2022

Transmitter spurious emissions & Receiver spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	EMI Test Receiver	R&S	ESR	102525	03/18/2022
2	High Pass Filter	Chengdu E-Microwave	OHF-3-18-S	0E01901038	03/22/2022
3	High Pass Filter	Chengdu E-Microwave	OHF-6.5-18-S	0E01901039	03/22/2022
4	Spectrum Analyzer	HP	8593E	3831U02087	03/22/2022
5	Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	01230	03/29/2023
6	Loop Antenna	Beijin ZHINAN	ZN30900C	18050	03/27/2022
7	Spectrum Analyzer	R&S	FSV40-N	101798	03/22/2022
8	Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	03/29/2023
9	Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	03/22/2022
10	Pre-Amplifier	EMCI	EMC051835SE	980662	03/22/2022

Note:

1)The Cal. Interval was one year.

2)The cable loss has calculated in test result which connection between each test instruments.

2.5. Test Software

Software name	Model	Version
Conducted emission Measurement Software	EZ-EMC	EMC-Con 3A1.1
Radiated emission Measurement Software	EZ-EMC	FA-03A.2.RE
Bluetooth and WIFI Test System	JS1120-3	2.5.77.0418

TRF No. FCC Part 15.249_R1

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3. TEST ITEM AND RESULTS

3.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

Note: The antenna is permanently fixed to the EUT

3.2. Conducted Emission

Limit

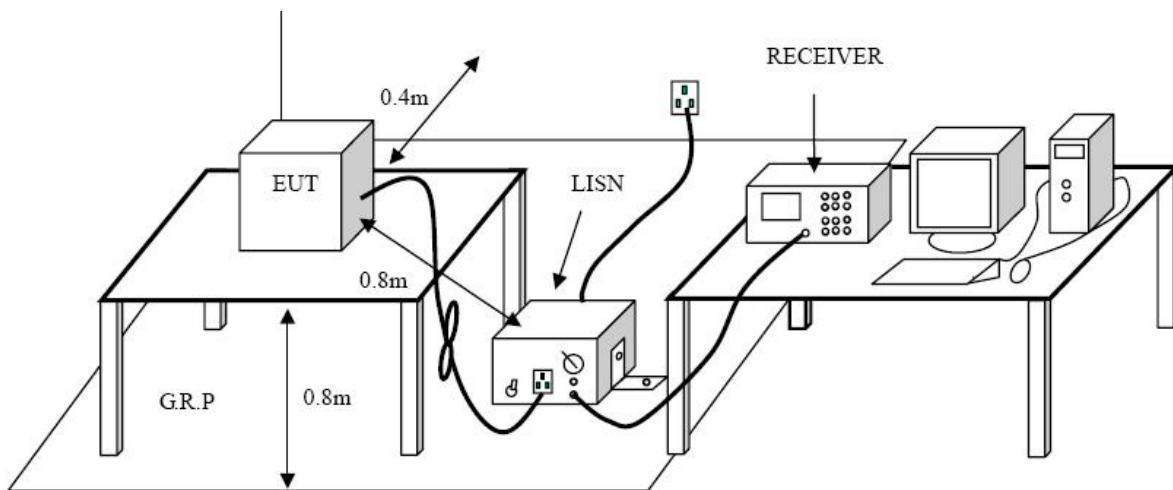
Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

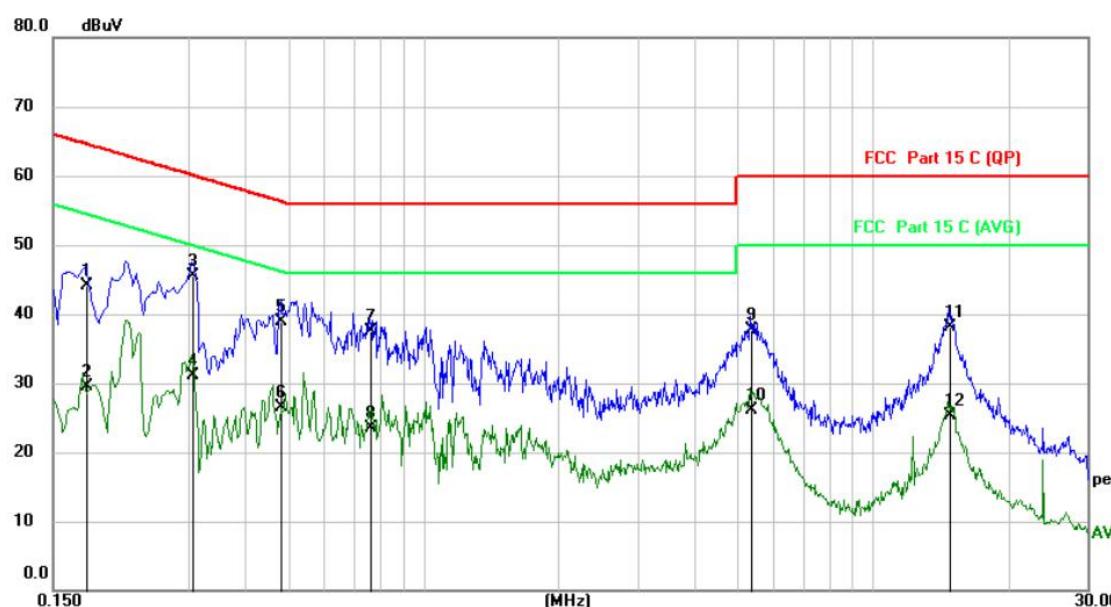
Test Configuration



Test Procedure

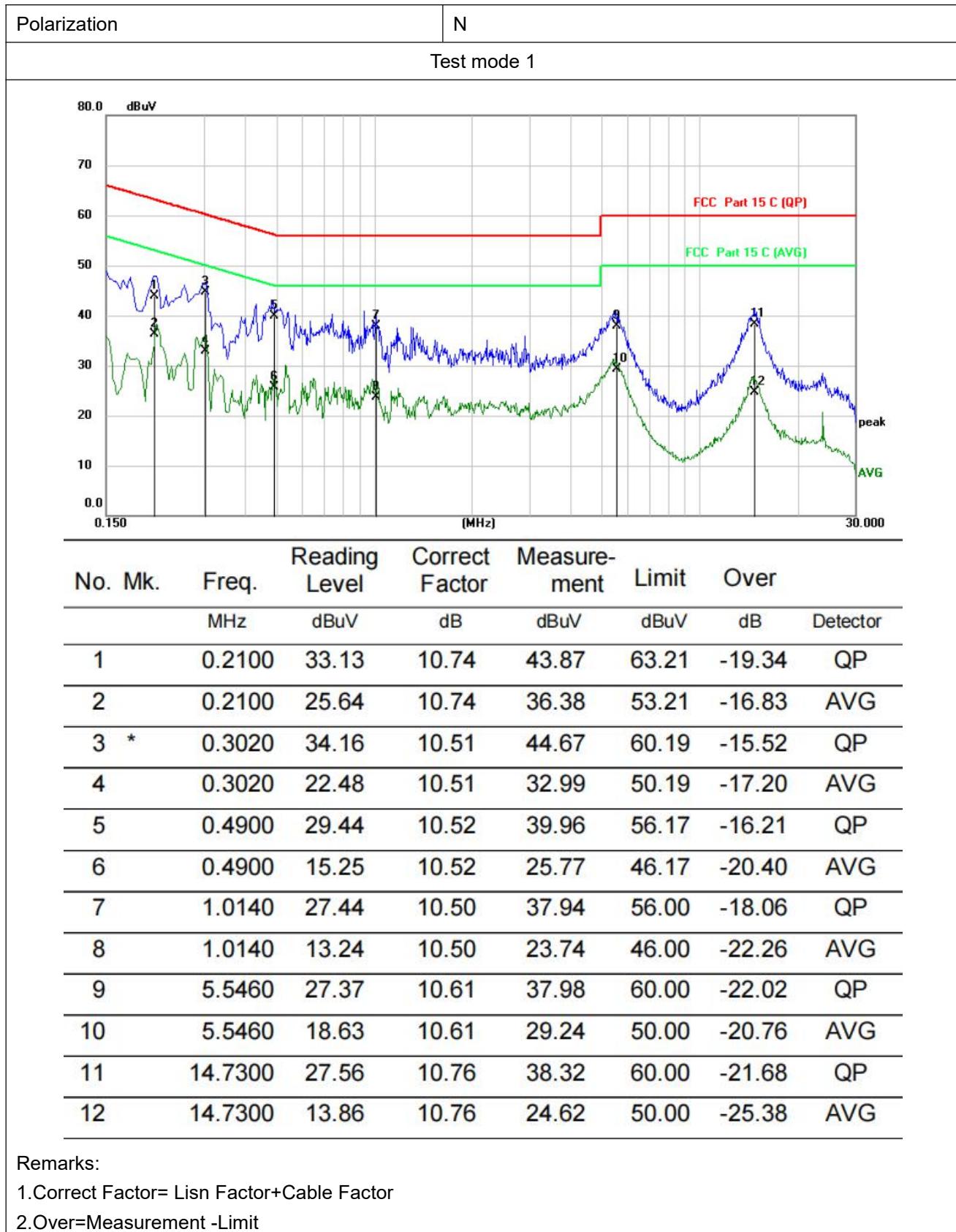
1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

Test Results

Polarization	L						
	Test mode 1						
							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV	dBuV	dB
1		0.1780	33.32	10.74	44.06	64.58	-20.52
2		0.1780	18.70	10.74	29.44	54.58	-25.14
3	*	0.3060	35.05	10.53	45.58	60.08	-14.50
4		0.3060	20.50	10.53	31.03	50.08	-19.05
5		0.4820	28.52	10.41	38.93	56.30	-17.37
6		0.4820	16.01	10.41	26.42	46.30	-19.88
7		0.7620	27.08	10.44	37.52	56.00	-18.48
8		0.7620	13.15	10.44	23.59	46.00	-22.41
9		5.3580	27.07	10.63	37.70	60.00	-22.30
10		5.3580	15.41	10.63	26.04	50.00	-23.96
11		14.8100	27.31	10.78	38.09	60.00	-21.91
12		14.8100	14.57	10.78	25.35	50.00	-24.65

Remarks:

1. Correct Factor = Liss Factor + Cable Factor
2. Over = Measurement - Limit

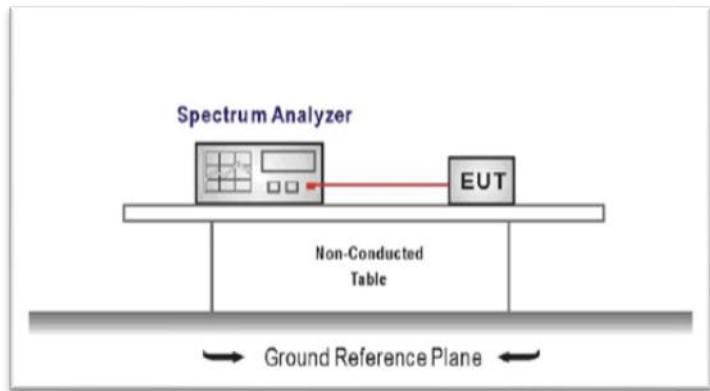


3.3. 20dB Bandwidth

Limit

Operation frequency range 2400MHz~2483.5MHz.

Test Configuration



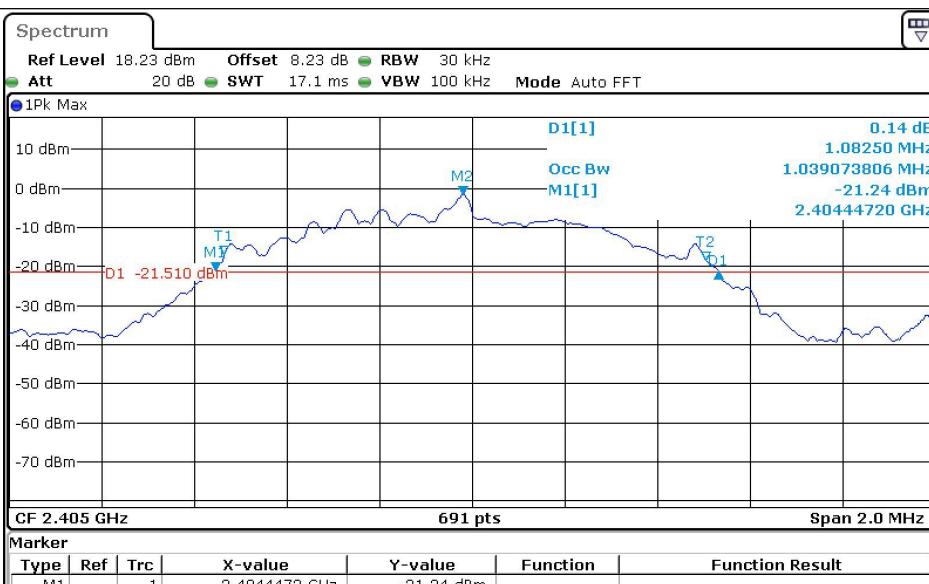
Test Procedure

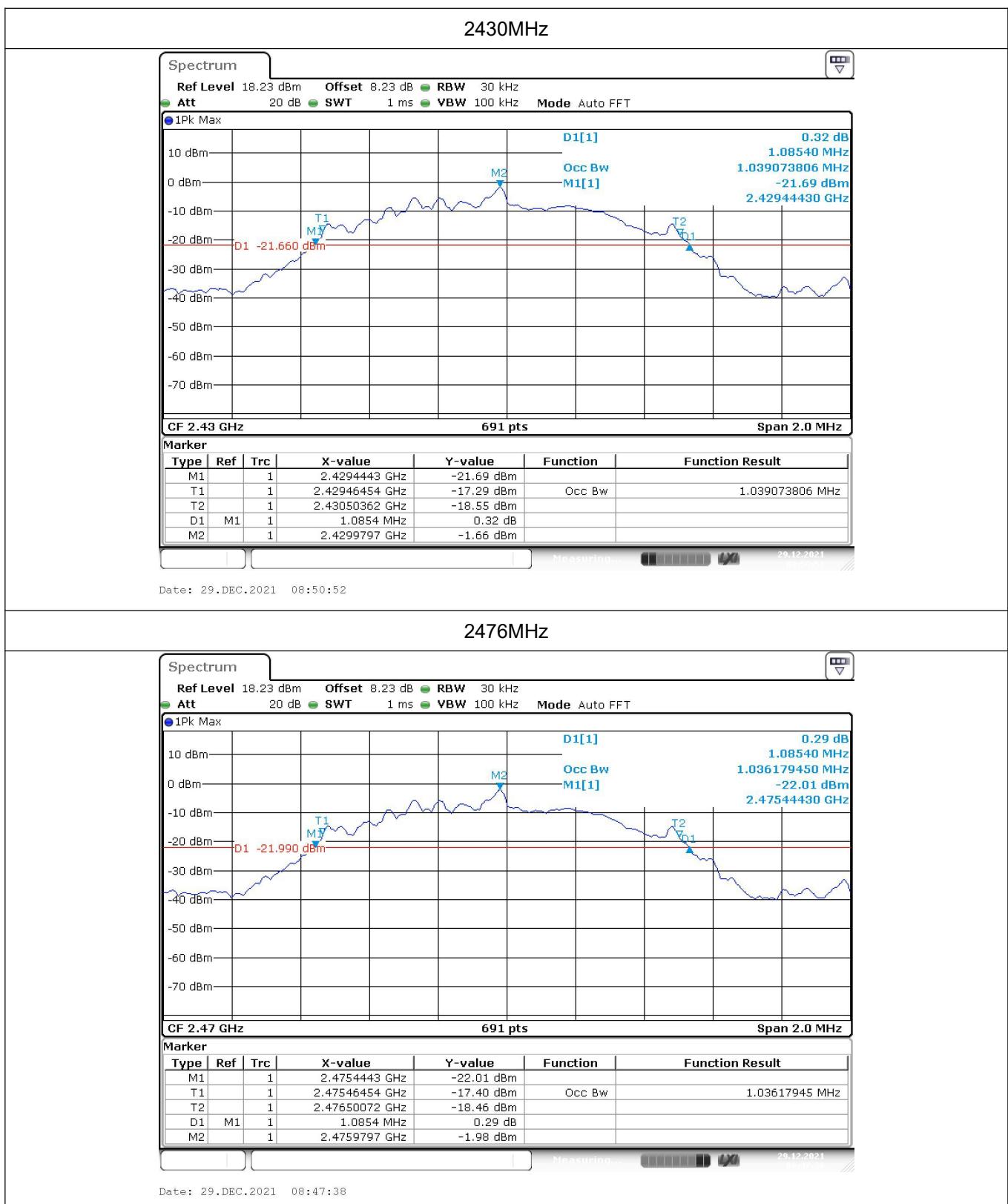
1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
 - Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
 - $RBW \geq 1\%$ of the 20 dB bandwidth, $VBW \geq RBW$
 - Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.3..

Test Results

Test Mode:		GFSK																																																		
Channel frequency (MHz)	20dB Bandwidth [MHz]	Verdict																																																		
2405	1.0825	PASS																																																		
2430	1.0854	PASS																																																		
2476	1.0854	PASS																																																		
2405MHz																																																				
																																																				
<table border="1"> <thead> <tr> <th colspan="7">Marker</th> </tr> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40444720 GHz</td> <td>-21.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td></td> <td>1</td> <td>2.40446454 GHz</td> <td>-17.00 dBm</td> <td>Occ Bw</td> <td>1.039073806 MHz</td> </tr> <tr> <td>T2</td> <td></td> <td>1</td> <td>2.40550362 GHz</td> <td>-18.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>1.0825 MHz</td> <td>0.14 dB</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4049797 GHz</td> <td>-1.51 dBm</td> <td></td> <td></td> </tr> </tbody> </table>				Marker							Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40444720 GHz	-21.24 dBm			T1		1	2.40446454 GHz	-17.00 dBm	Occ Bw	1.039073806 MHz	T2		1	2.40550362 GHz	-18.26 dBm			D1	M1	1	1.0825 MHz	0.14 dB			M2		1	2.4049797 GHz	-1.51 dBm		
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3.4. Radiated Spurious Emissions

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209(a) and 15.205(a)

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
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
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:74.0dB(μ V)/m(Peak) 54.0dB(μ V)/m (Average)	

Remark: (1) Emission level dB μ V = 20 log Emission level μ 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.

FREQUENCY RANGE OF RADIATED MEASUREMENT

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
Start ~Stop Frequency	1GHz~26.5GHz RBW 1MHz/ VBW 1MHz for Peak, RBW 1MHz/ VBW 10Hz for Average

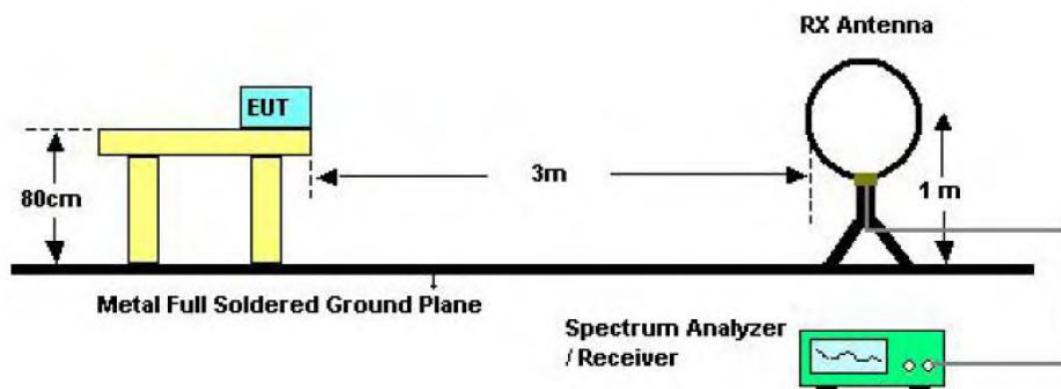
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

TRF No. FCC Part 15.249_R1

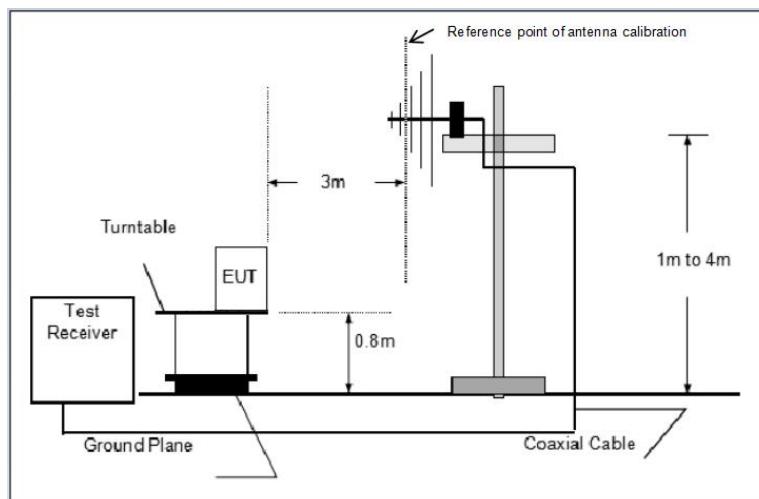
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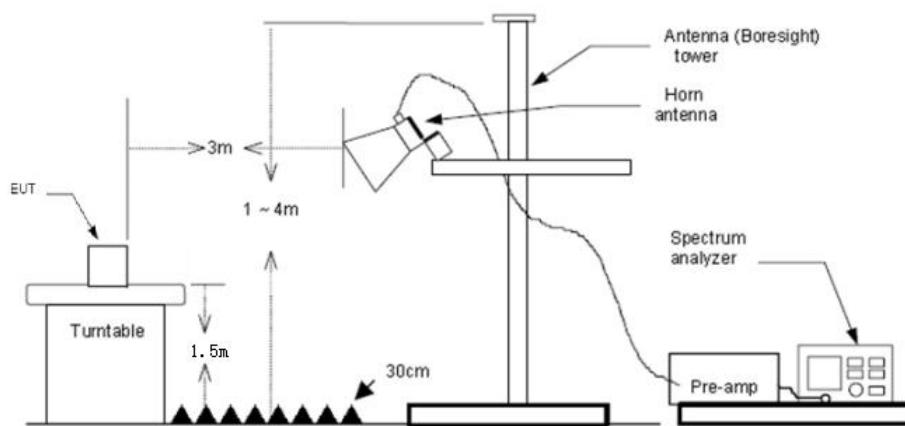
Test Configuration



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
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.
 - (3) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=10Hz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed Not Applicable

9 KHz~30 MHz and 18GHz~25GHz

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

Note:

- 1) Final level = Reading level + Correct Factor
Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 4) Pre-scan 2405MHz, 2430MHz and 2476MHz mode, and found the 2405MHz which it is worse case for 30MHz-1GHz , so only show the test data for worse case.
- 5) Pre-scan 2405MHz, 2430MHz and 2476MHz mode, and found the 2405MHz mode it is worse case for above 1GHz, so only show the test data for worse case.
- 6) 18GHz ~ 25GHz
The EUT was pre-scanned the frequency band (18GHz~25GHz), found the radiated level(Background noise) lower than the limit, so don't show on the report. 3

Radiated field strength of the fundamental signal

Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dBuV/m)	Polarization	Test value
2405	93.47	-10.88	82.59	114	-31.41	Horizontal	Peak
2430	95.18	-10.88	84.3	114	-29.7	Horizontal	Peak
2476	91.47	-10.88	80.59	114	-33.41	Horizontal	Peak
2405	77.51	-10.88	66.63	94	-27.37	Horizontal	AVG
2430	76.42	-10.88	65.54	94	-28.46	Horizontal	AVG
2476	78.13	-10.88	67.25	94	-26.75	Horizontal	AVG

Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dBuV/m)	Polarization	Test value
2405	96.33	-10.88	85.45	114	-28.55	Vertical	Peak
2430	93.83	-10.88	82.95	114	-31.05	Vertical	Peak
2476	95.52	-10.88	84.64	114	-29.36	Vertical	Peak
2405	76.43	-10.88	65.55	94	-28.45	Vertical	AVG
2430	78.06	-10.88	67.18	94	-26.82	Vertical	AVG
2476	75.71	-10.88	64.83	94	-29.17	Vertical	AVG

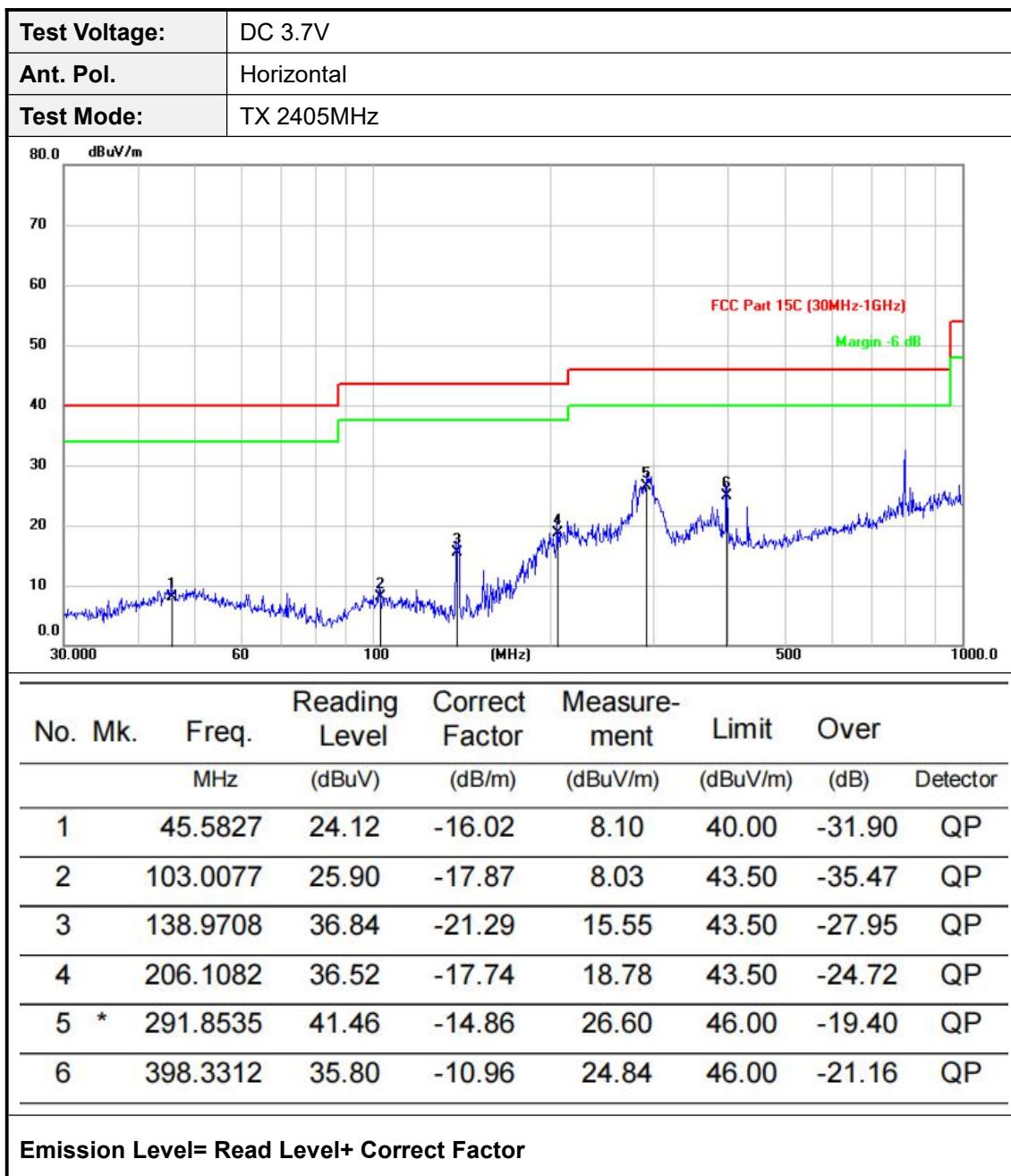
Note:

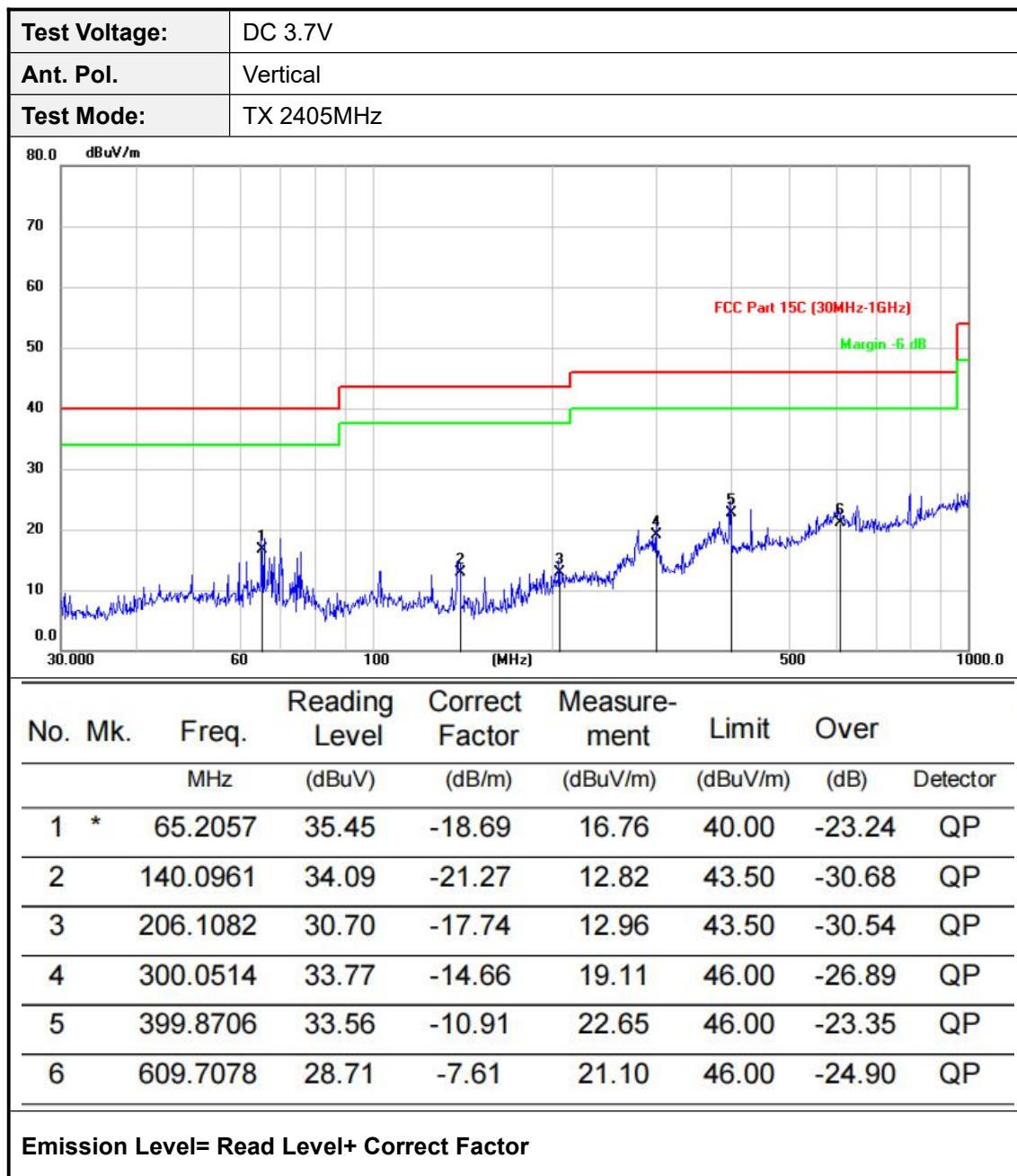
Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

RADIATED EMISSION BELOW 30MHZ

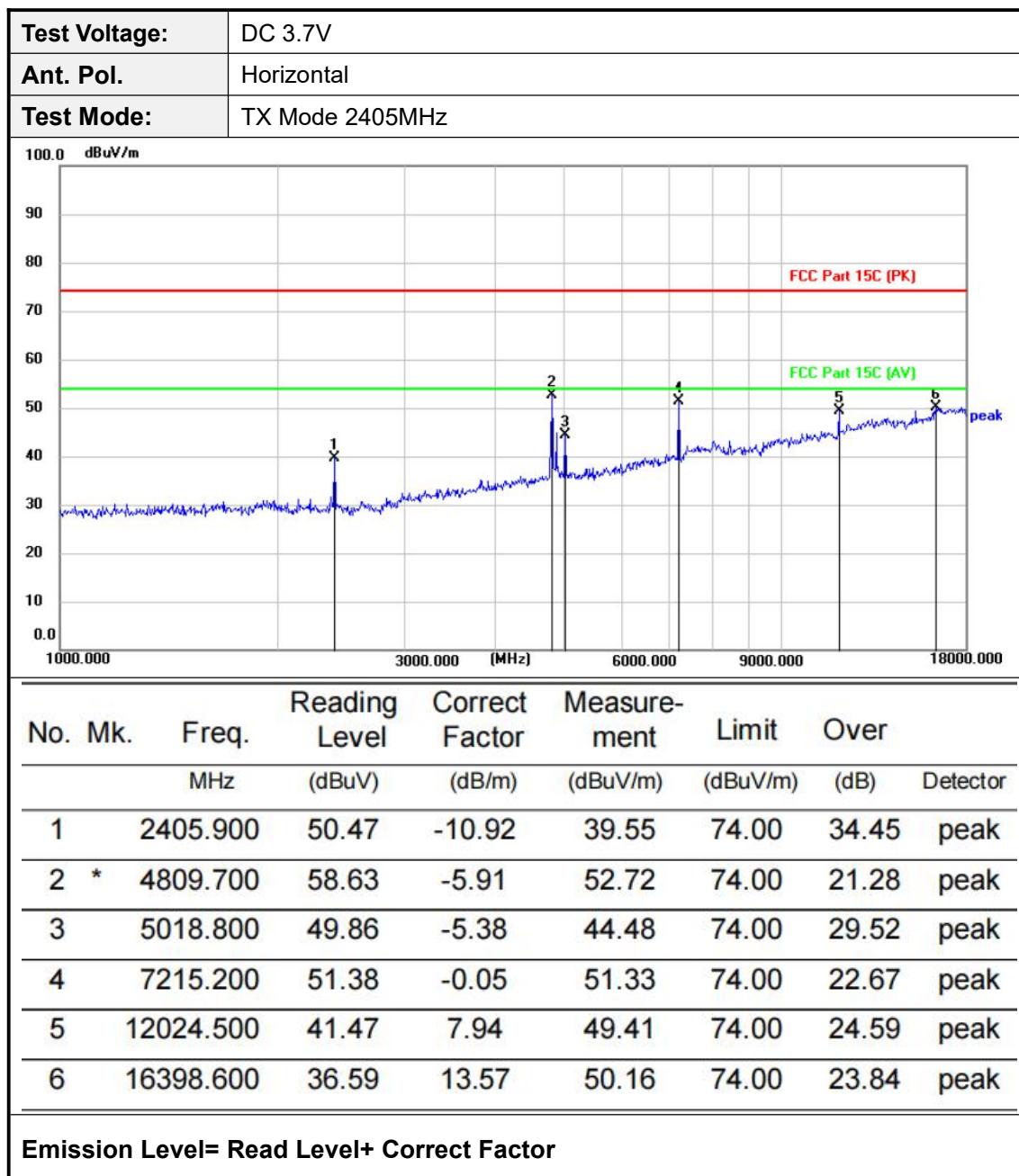
No emission found between lowest internal used/generated frequencies to 30MHz.

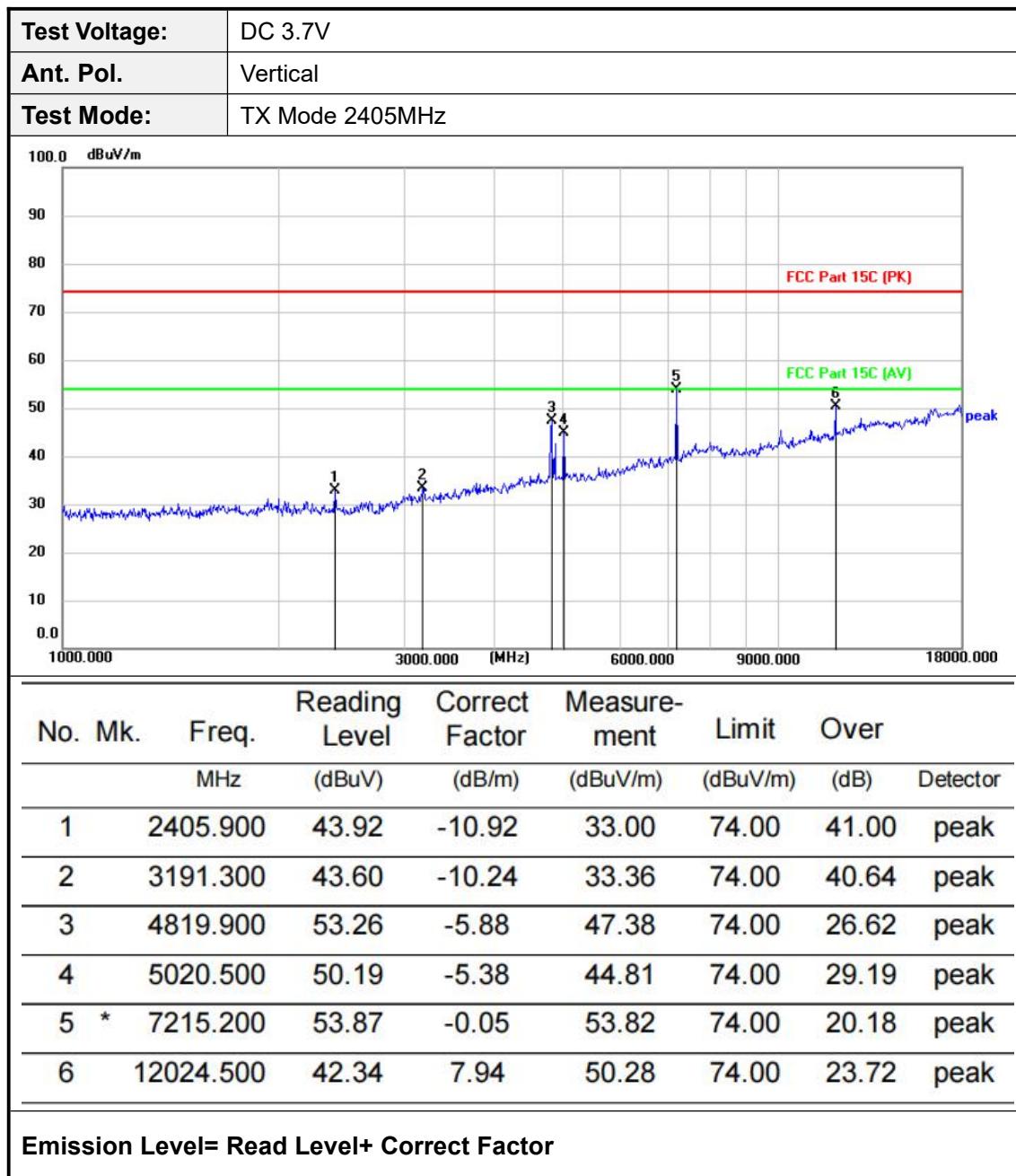
30MHz-1GHz

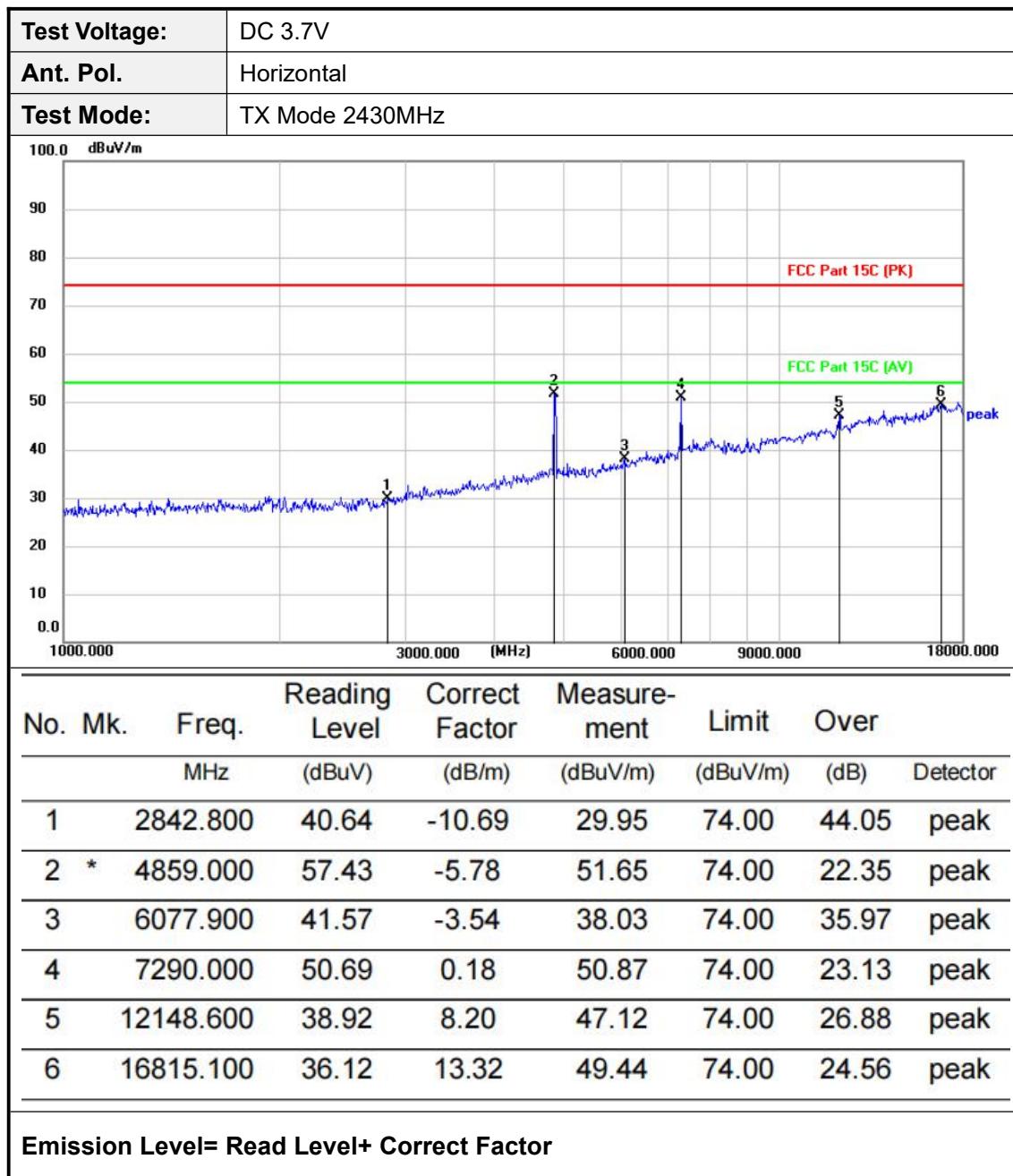


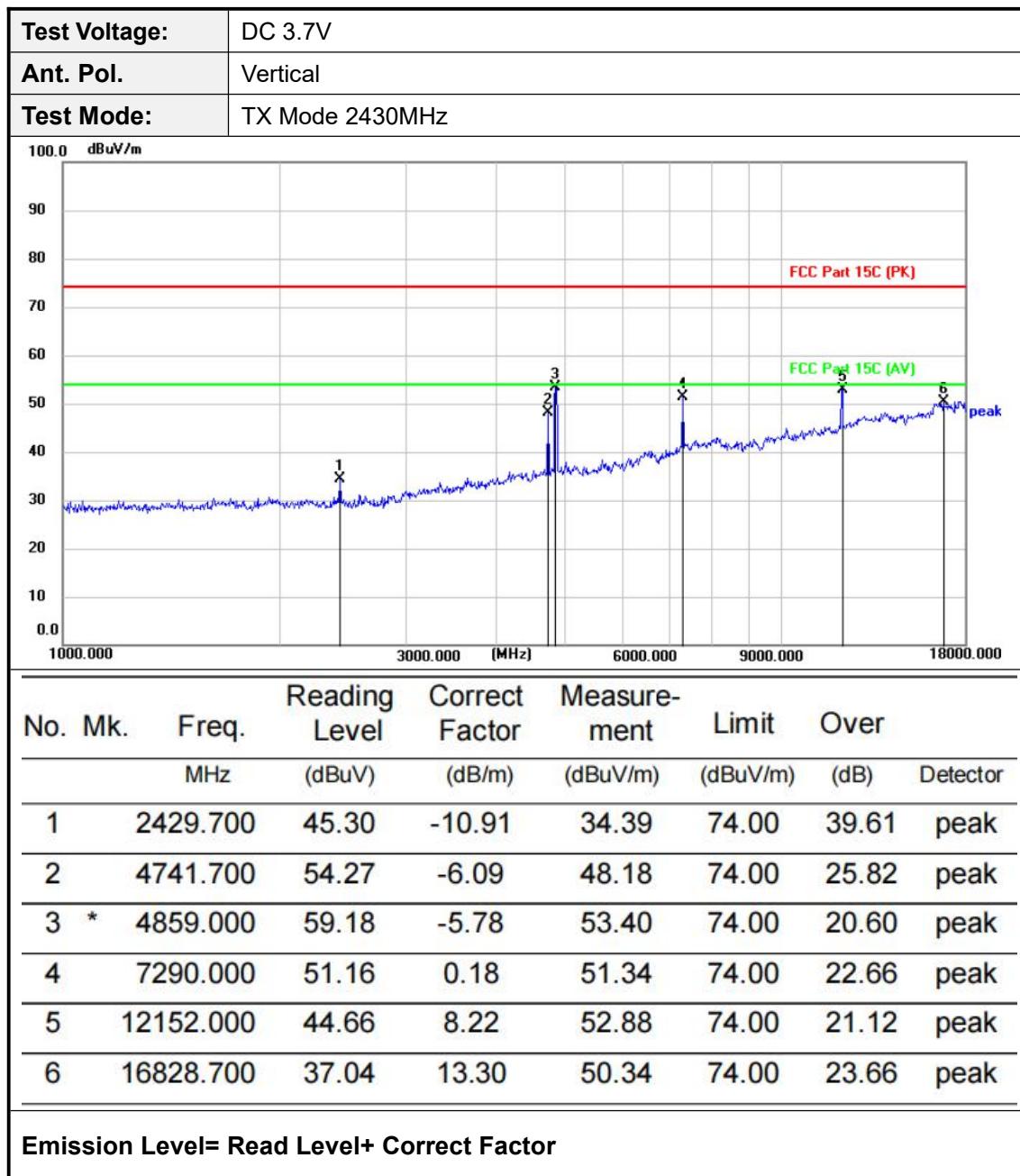


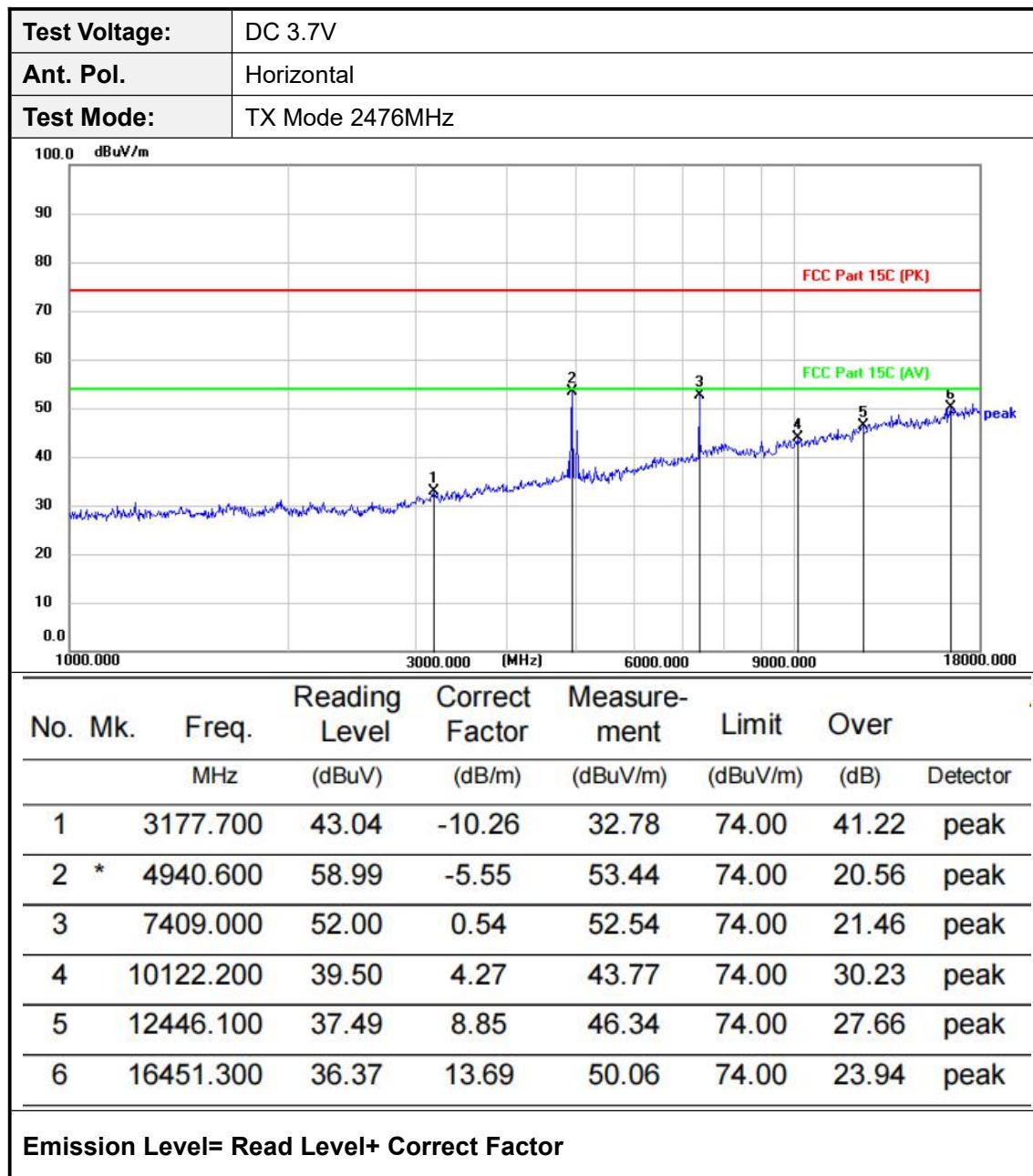
Adobe 1GHz

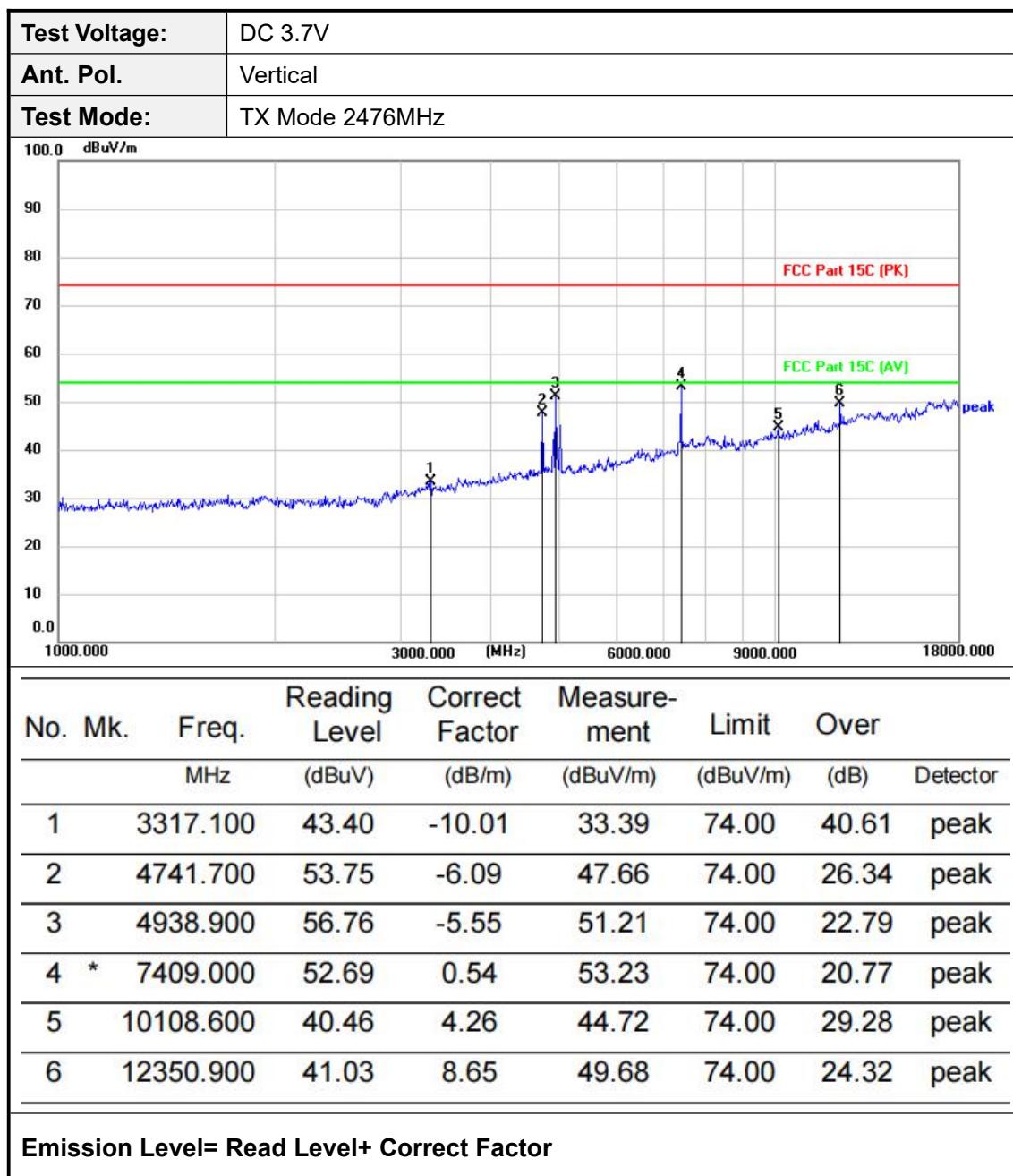








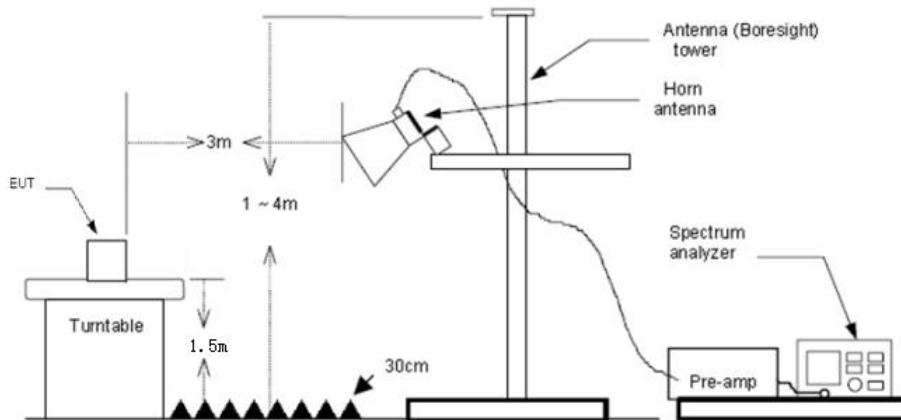



Note:

1.18GHz-26.5GHz is the background of the site, there is no radiated spurious.

3.5. Band Edge Emissions(Radiated)

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
 - RBW=1MHz, VBW=10Hz with Average Detector for Average Value.

Test Mode

Please refer to the clause 2.3.

Test Results

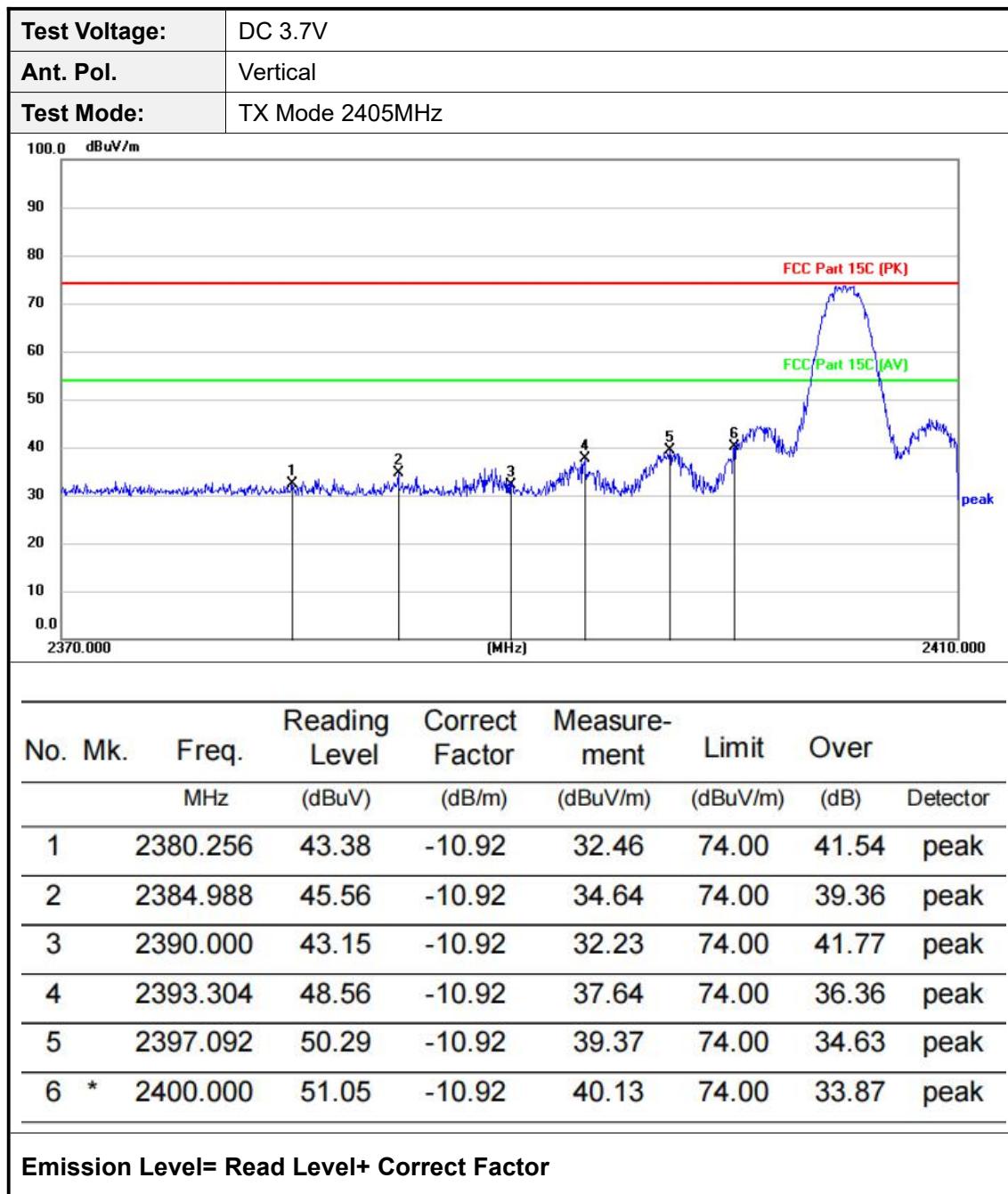
Passed

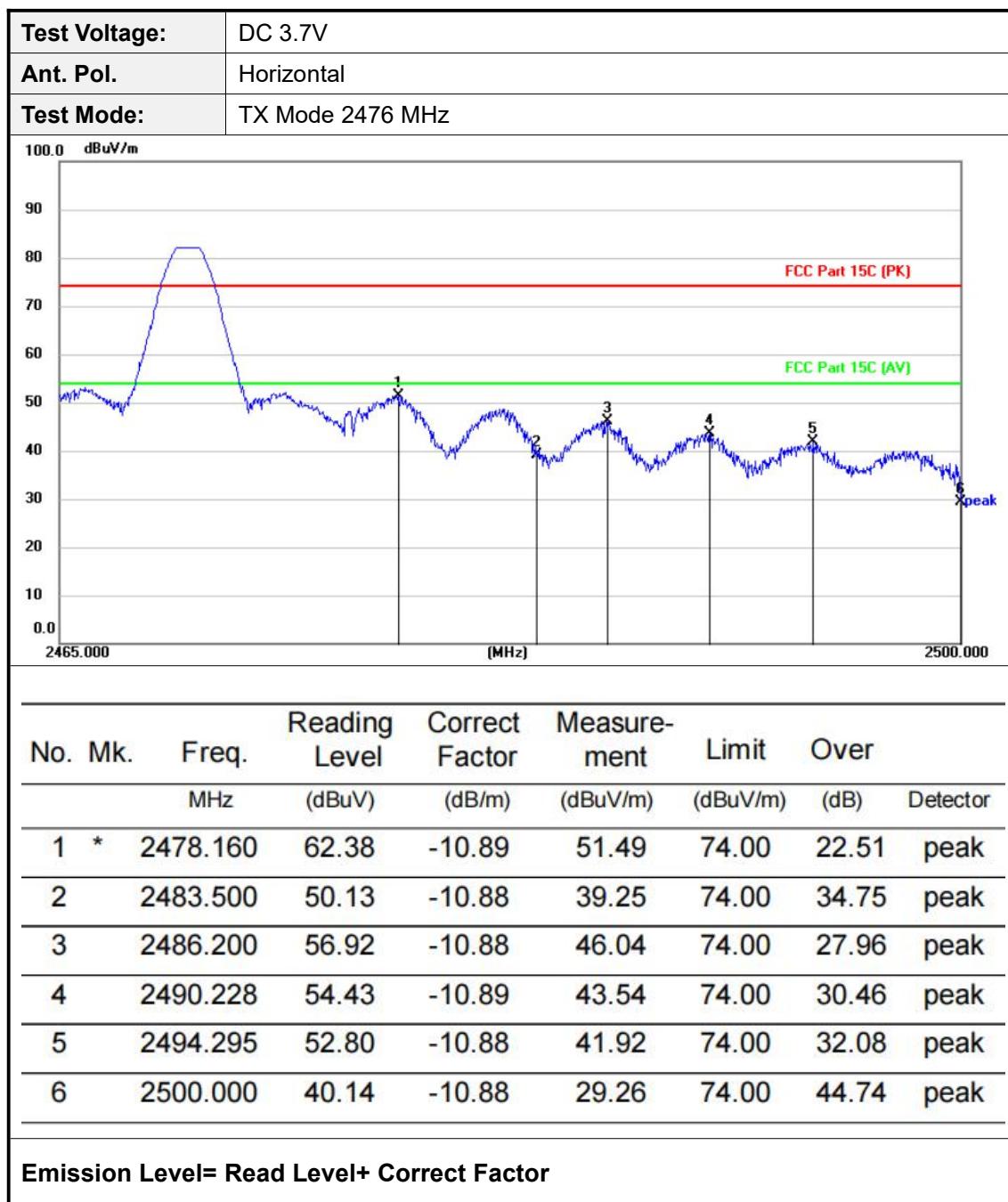
Not Applicable

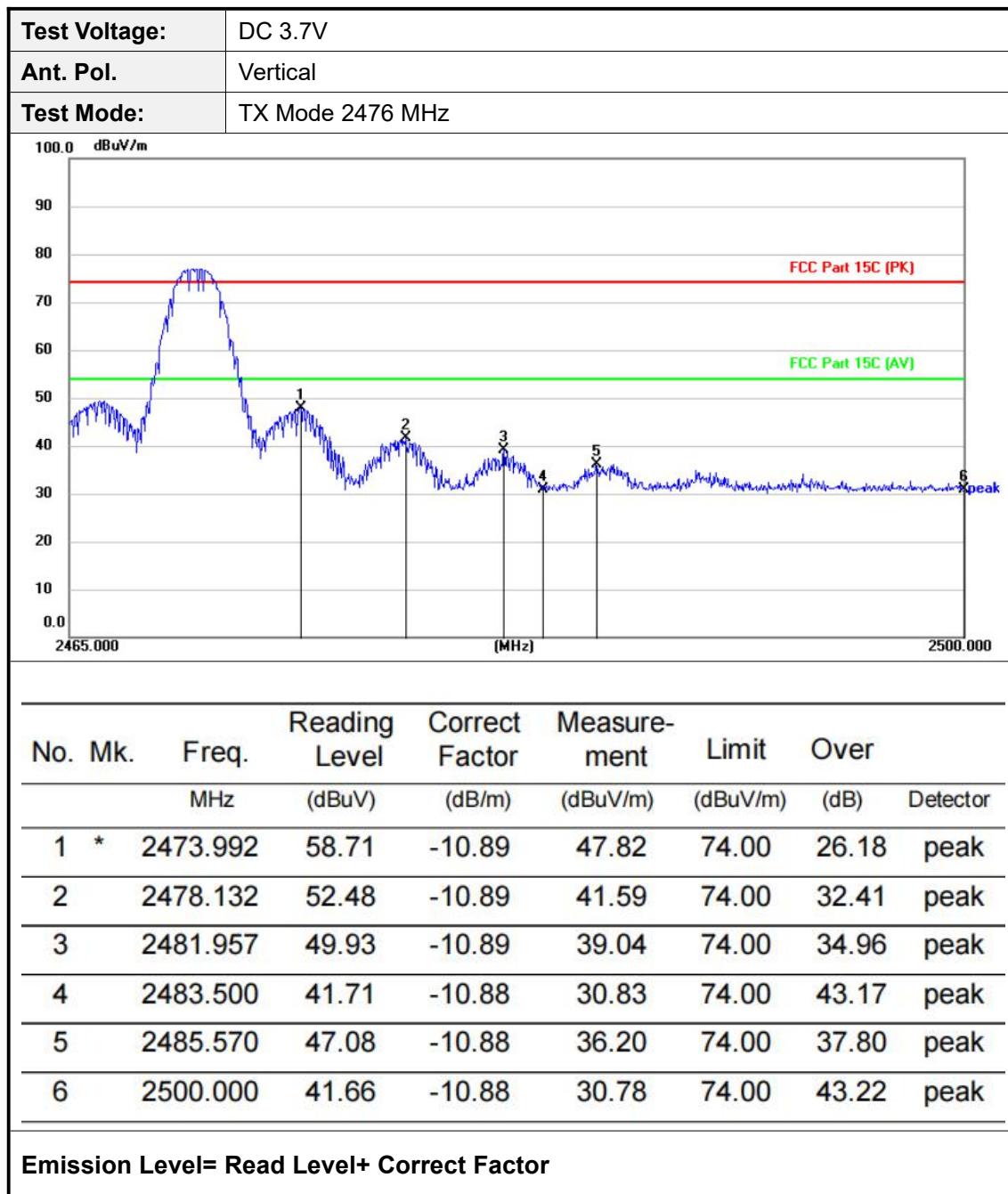
Note:

- 1) Final level= Read level + Antenna Factor + Cable Loss - Preamp Factor
- 2) Correction Factor = Antenna factor + cable loss
- 3) The peak level is lower than average limit(54dBuV/m), this data is the too weak instrument of signal is unable to test.
- 4) The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Voltage:	DC 3.7V						
Ant. Pol.:	Horizontal						
Test Mode:	TX Mode 2405MHz						
							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)
1	2381.028	51.38	-10.93	40.45	74.00	33.55	peak
2	2384.996	53.81	-10.92	42.89	74.00	31.11	peak
3	2390.000	50.22	-10.92	39.30	74.00	34.70	peak
4	2392.916	56.80	-10.92	45.88	74.00	28.12	peak
5 *	2397.088	58.66	-10.92	47.74	74.00	26.26	peak
6	2400.000	58.32	-10.92	47.40	74.00	26.60	peak
Emission Level= Read Level+ Correct Factor							







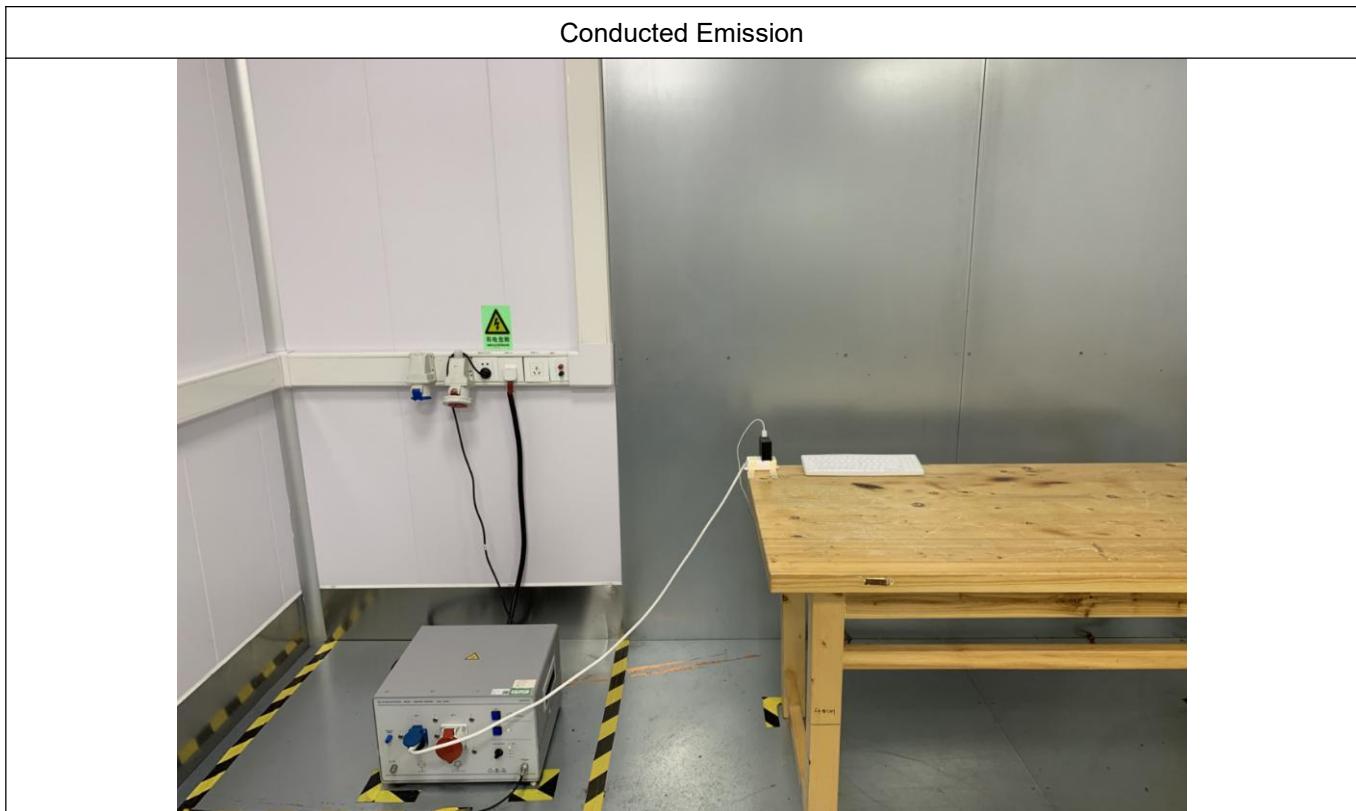
4. EUT TEST PHOTOS

Radiated Measurement (Below 1GHz)



Radiated Measurement (Above 1GHz)





5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

External Photographs

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Internal Photographs

Photo 1

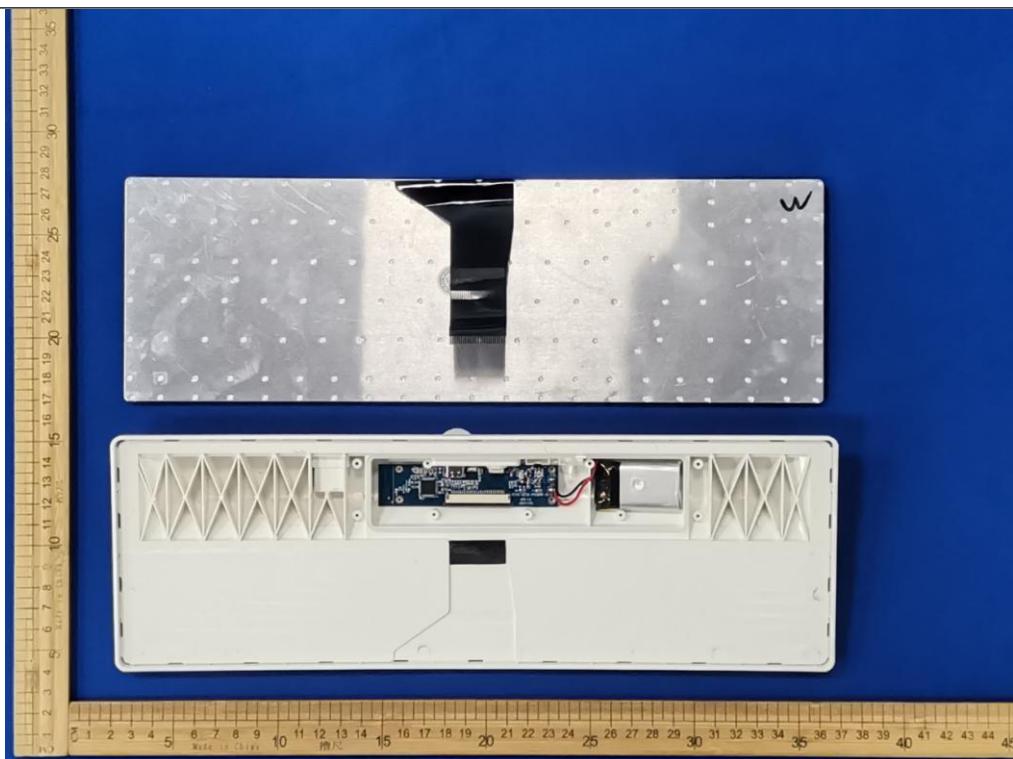


Photo 2

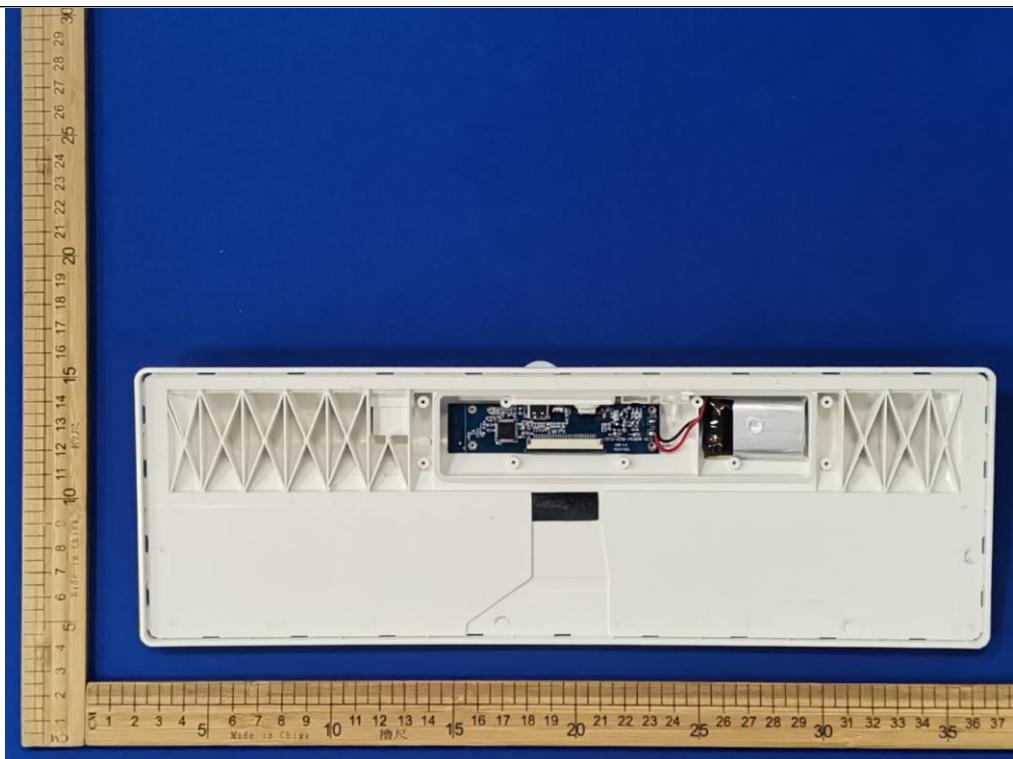


Photo 3

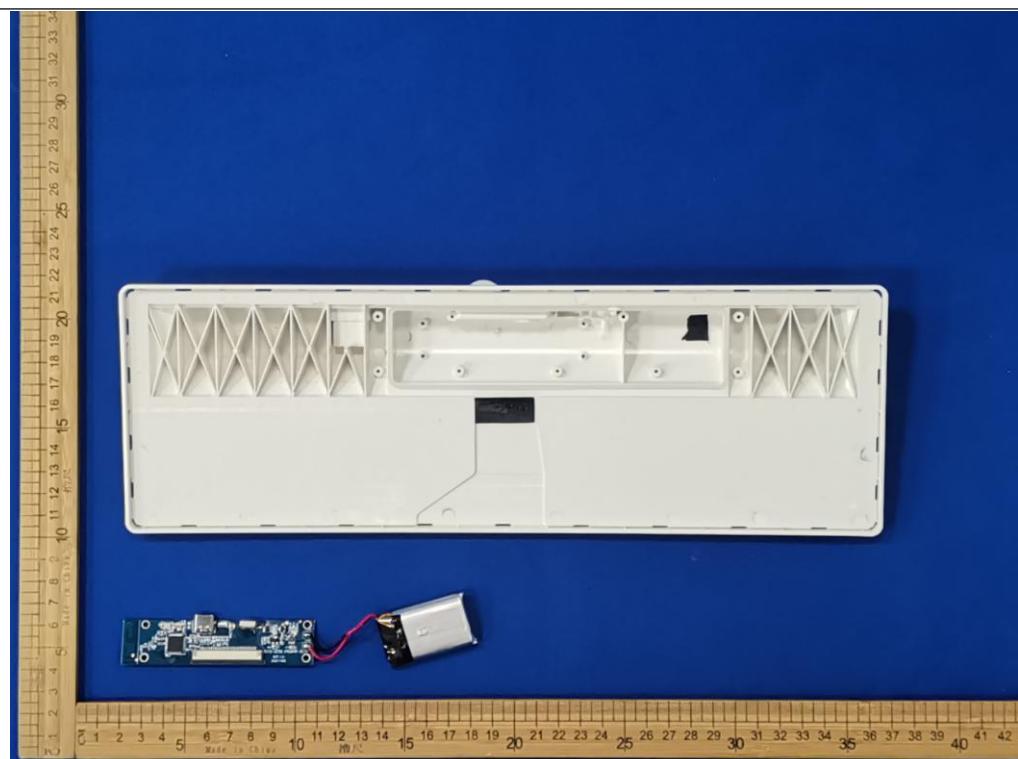


Photo 4

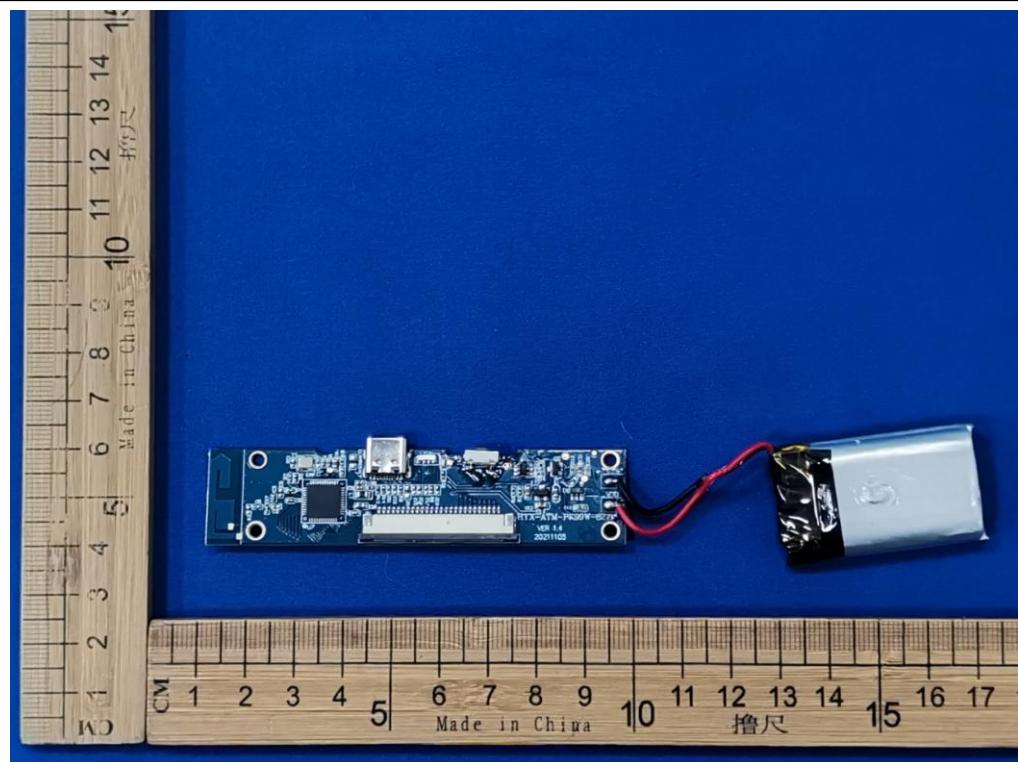


Photo 5

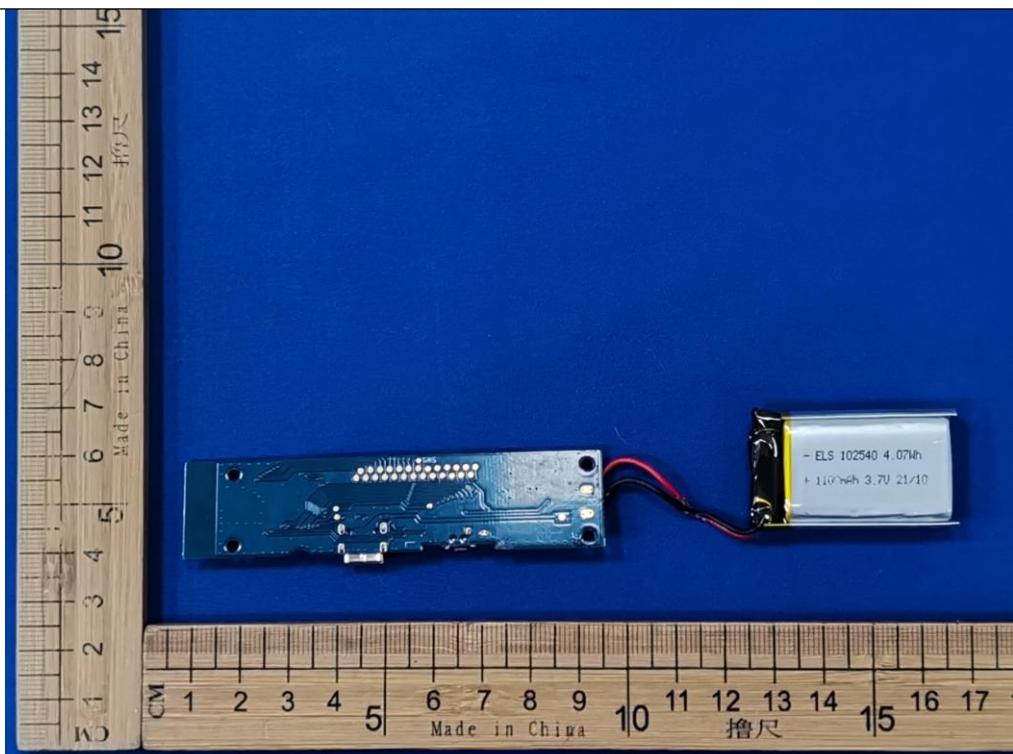


Photo 6



Photo 7

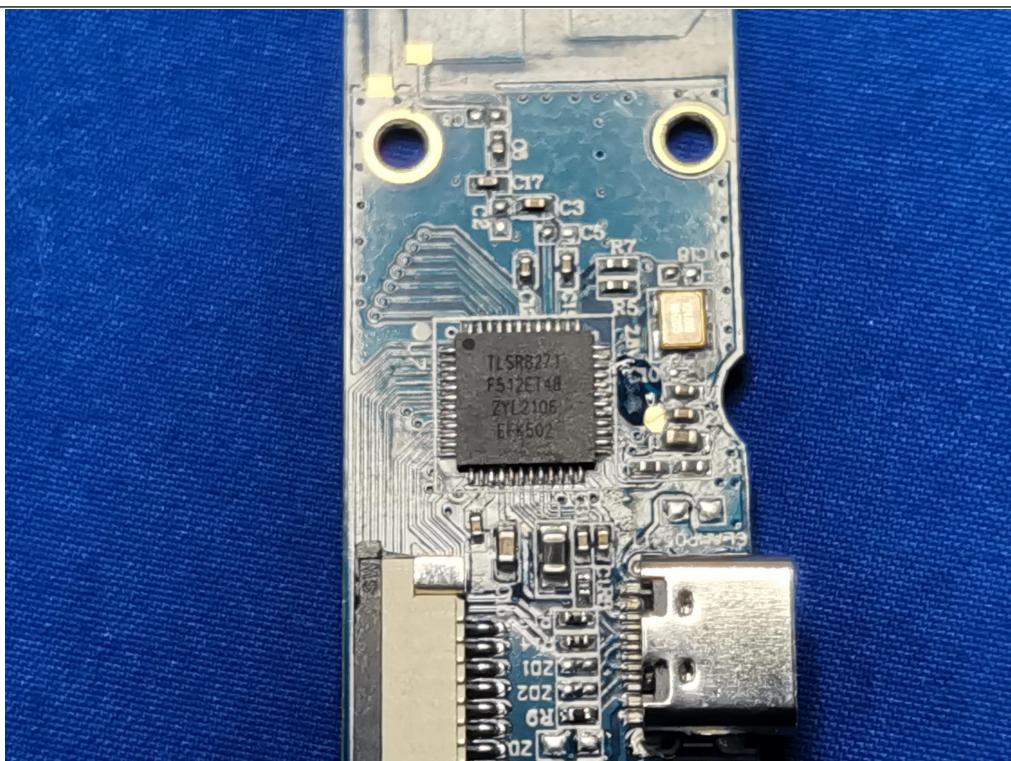
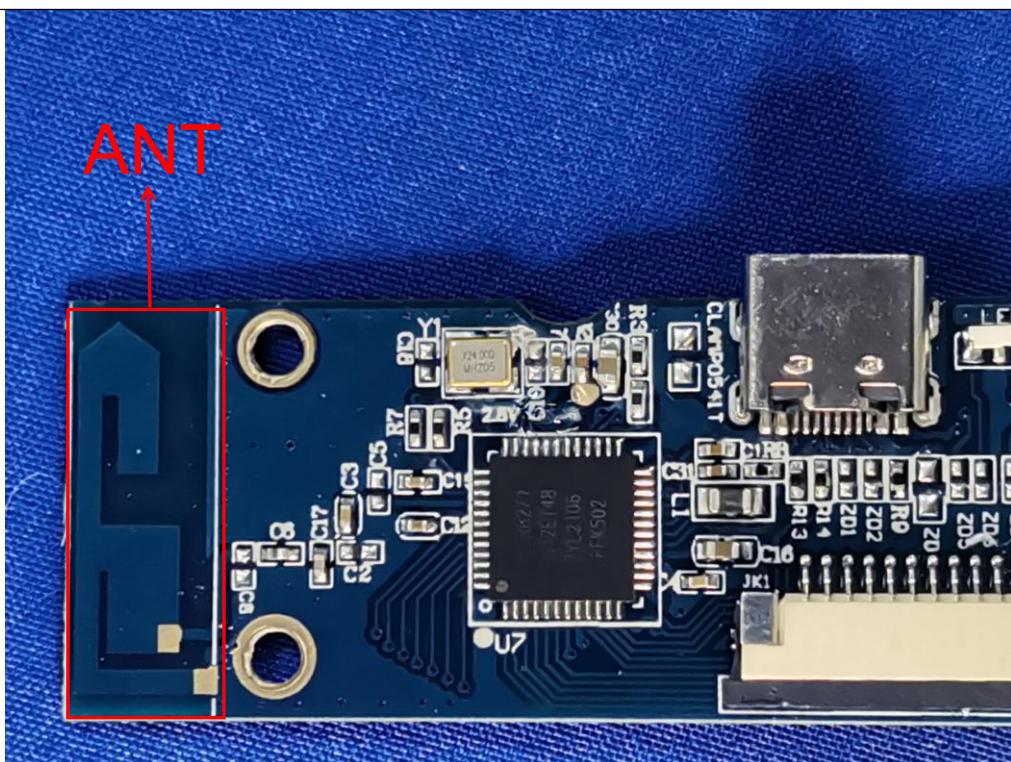


Photo 8



--THE END--