



Report No.: TW2107059-02E File Reference No.: 2021-08-05

Applicant: SHENZHEN JINGWEIXIAN TECHNOLOGY CO., LTD

Product: Screen Protector Film Cutter

Model No.: Mini 8, Mini 9, Mini 10, Mini 11, Mini 12, Mini 13, Mini

14, Mini 15, Mini 16, Mini 17, Mini 18, Mini 19, Mini 20

Trademark: SKYCUT

Test Standards: FCC Part 15.247

Test Result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10, FCC Part 15.247 for

the evaluation of electromagnetic compatibility

Approved By

Jack Chung Manager

Dated: August 05, 2021

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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# **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

## **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

# FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

# Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

## **A2LA** (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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# Test Report Conclusion

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

## 1.2 Applicant Details

Applicant: SHENZHEN JINGWEIXIAN TECHNOLOGY CO., LTD

Address: Building C, XinHang Technology Park, No. 229 Qingshui Road, Longgang District,

Shenzhen, 518116, China

Telephone: 13823176591 Fax: 0755-84565855

#### 1.3 Description of EUT

Product: Screen Protector Film Cutter

Manufacturer: SHENZHEN JINGWEIXIAN TECHNOLOGY CO., LTD

Address: Building C, XinHang Technology Park, No. 229 Qingshui Road, Longgang

District, Shenzhen, 518116, China

Brand Name: SKYCUT

Additional Brand Name: N/A Model Number: Mini 8

Additional Model Number: Mini 9, Mini 10, Mini 11, Mini 12, Mini 13, Mini 14, Mini 15, Mini 16, Mini 17,

Mini 18, Mini 19, Mini 20 Hardware Version: V9.0810 Software Version: V21.0710

Type of Modulation GFSK (Bluetooth BLE)

Frequency range 2402-2480MHz Frequency Selection By software

Channel Number 40

Power Supply: Model: GM60-240275-F; Input: 100-240V, 50/60Hz, 2.0A;

Output: DC24V, 2.75A, 66W

Input Voltage: DC24V, 2.75A

# 1.4 Submitted Sample: 4Samples

The report refers only to the sample tested and does not apply to the bulk.

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1.5 Test Duration 2021-07-05 to 2021-08-04

# Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

Terry Tang The sample tested by

Print Name: Terry Tang

Date: 2021-08-05



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2022-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-15	2022-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/F A		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-15	2022-01-14

## 2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

## For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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## 3.0 Technical Details

# 3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	<b>Conducted Emission Test</b>	PASS	Complies
	Spectrum bandwidth of a		Complies
FCC Part 15 Subpart C	Orthogonal Frequency		
Paragraph 15.247(a)(2) Limit	<b>Division Multiplex System</b>	PASS	
r aragraph 13.247(a)(2) Linnt	Limit: 6dB		
	bandwidth>500kHz		
FCC Part 15, Paragraph	Maximum peak output		
15.247(b)	power	PASS	Complies
13.247(0)	Limit: max. 30dBm		
CCC Part 15, Paragraph 15.205	Transmitter Radiated	PASS	Complies
& 15.209	Emission		
	Limit: Table 15.209		
FCC Part 15, Paragraph	<b>Power Spectral Density</b>	PASS	Complies
15.247(e)	Limit: max. 8dBm		
FCC Part 15, Paragraph	Out of Band Emission and	PASS	Complies
15.247(d)	Restricted Band		
	Radiation		
	Limit: 20dB less than		
	peak value of fundamental		
	frequency		
	Restricted band limit:		
	<b>Table 15.209</b>		

### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

# 4.0 EUT Modification

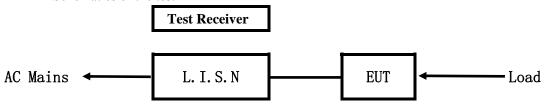
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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#### **5.Power Line Conducted Emission Test**

#### 5.1 Schematics of the test

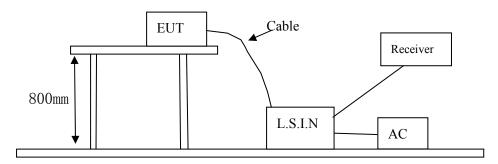


**EUT: Equipment Under Test** 

## 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



## 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer Model		FCC ID
Screen Protector Fi	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Mini 8, Mini 9, Mini 10, Mini 11, Mini 12, Mini 13, Mini 14, Mini 15, Mini 16, Mini 17, Mini 18, Mini 19, Mini 20	2AVGR-MINI8MINI9

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#### B. Internal Device

Device	Manufacturer	Model	Rating

# C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

## 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (c	lB μV)
(MHz)	Quasi peak Level	Average Level
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*
$0.50 \sim 5.00$	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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# A: Conducted Emission on Live Terminal (150kHz to 30MHz)

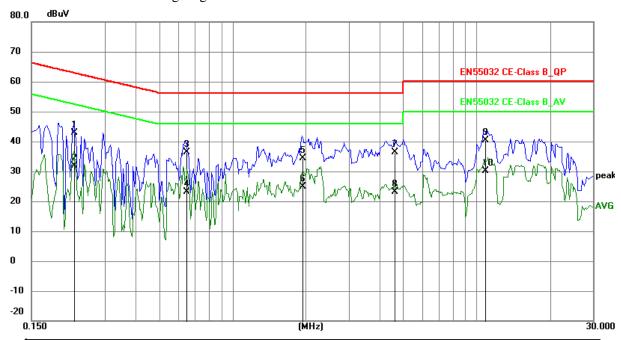
# **EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

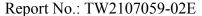
**EUT set Condition: Keep Bluetooth Transmitting** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2241	33.23	9.75	42.98	62.67	-19.69	QP	Р
2	0.2241	22.09	9.75	31.84	52.67	-20.83	AVG	Р
3	0.6453	26.61	9.78	36.39	56.00	-19.61	QP	Р
4	0.6453	13.25	9.78	23.03	46.00	-22.97	AVG	Р
5	1.9284	24.65	9.80	34.45	56.00	-21.55	QP	Р
6	1.9284	15.13	9.80	24.93	46.00	-21.07	AVG	Р
7	4.6185	26.49	9.91	36.40	56.00	-19.60	QP	Р
8	4.6185	13.27	9.91	23.18	46.00	-22.82	AVG	Р
9	10.7922	30.21	10.19	40.40	60.00	-19.60	QP	Р
10	10.7922	20.05	10.19	30.24	50.00	-19.76	AVG	Р



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# B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

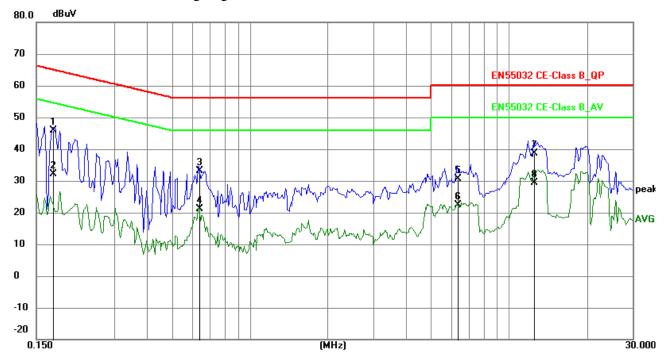
# **EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Bluetooth Transmitting** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	36.09	9.77	45.86	64.80	-18.94	QP	Р
2	0.1734	22.34	9.77	32.11	54.80	-22.69	AVG	Р
3	0.6375	23.45	9.78	33.23	56.00	-22.77	QP	Р
4	0.6375	11.42	9.78	21.20	46.00	-24.80	AVG	Р
5	6.3228	20.64	9.98	30.62	60.00	-29.38	QP	Р
6	6.3228	12.35	9.98	22.33	50.00	-27.67	AVG	Р
7	12.5121	28.31	10.27	38.58	60.00	-21.42	QP	Р
8	12.5121	19.15	10.27	29.42	50.00	-20.58	AVG	Р

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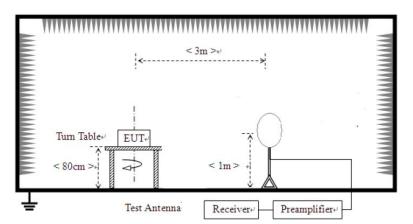


#### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

## **Block diagram of Test setup**

For radiated emissions from 9kHz to 30MHz



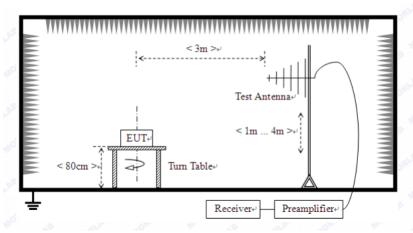
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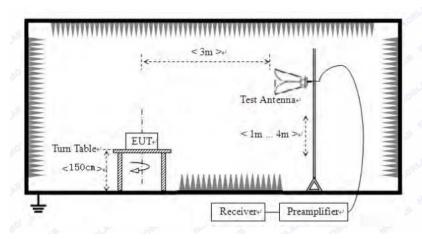
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT
  Same as section 5.3 of this report
- 6.3 EUT Operating Condition
  Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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# Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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#### Test result

# General Radiated Emission Data and Harmonics Radiated Emission Data

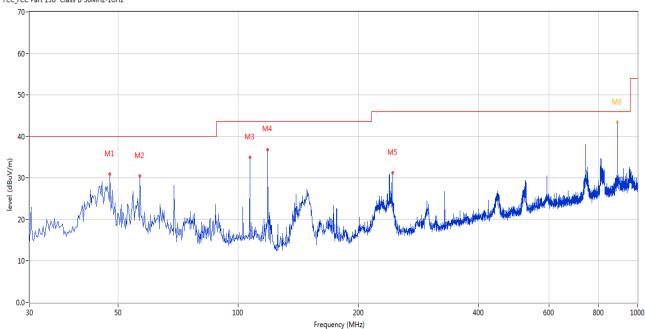
Radiated Emission In Horizontal (30MHz----1000MHz)

**EUT set Condition:** Keep Bluetooth Transmitting

**Results:** Pass

# Test Figure:

FCC\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	47.698	30.94	-11.34	40.0	-9.06	Peak	132.00	200	Н	Pass
2	56.668	30.42	-12.22	40.0	-9.58	Peak	83.00	200	Н	Pass
3	106.853	34.94	-13.38	43.5	-8.56	Peak	127.00	200	Н	Pass
4	118.490	36.84	-14.97	43.5	-6.66	Peak	66.00	200	Н	Pass
5	243.832	31.23	-12.23	46.0	-14.77	Peak	305.00	100	Н	Pass
6	890.109	44.70	-1.89	46.0	-1.30	Peak	238.00	102	Н	Pass
6*	890.109	43.43	-1.89	46.0	-2.57	QP	238.00	102	Н	Pass

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## Test result

# General Radiated Emission Data and Harmonics Radiated Emission Data

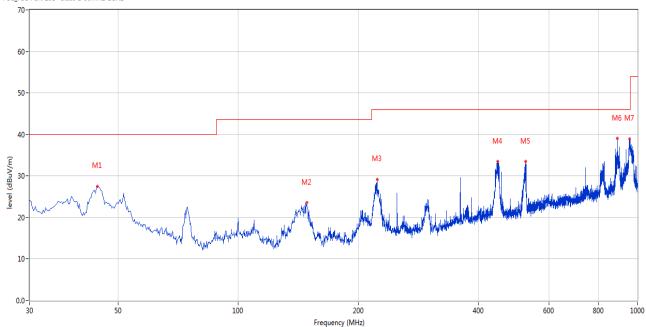
## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting** 

**Results:** Pass

# Test Figure:

FCC\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	44.304	27.54	-11.46	40.0	-12.46	Peak	351.00	100	V	Pass
2	148.310	23.53	-17.16	43.5	-19.97	Peak	360.00	100	V	Pass
3	222.739	29.18	-13.19	46.0	-16.82	Peak	275.00	100	V	Pass
4	446.268	33.53	-8.05	46.0	-12.47	Peak	2.00	100	V	Pass
5	525.546	33.43	-6.54	46.0	-12.57	Peak	25.00	100	V	Pass
6	890.175	39.05	-1.89	46.0	-6.95	Peak	158.00	100	V	Pass
7	956.361	38.98	-1.72	46.0	-7.02	Peak	172.00	100	V	Pass

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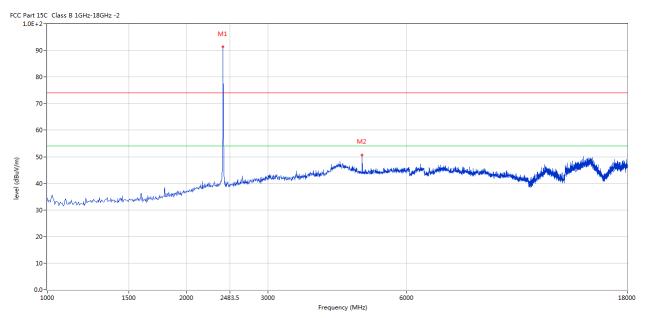
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# Test Figures above 1GHz:

Please refer to the following test plots for details:

#### Low Channel: Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	4802.799	50.64	3.12	74.0	-23.36	Peak	285.00	100	Horizontal	Pass

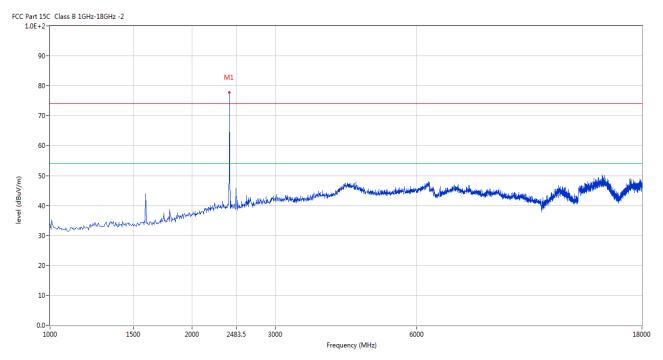
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## Low Channel: Vertical



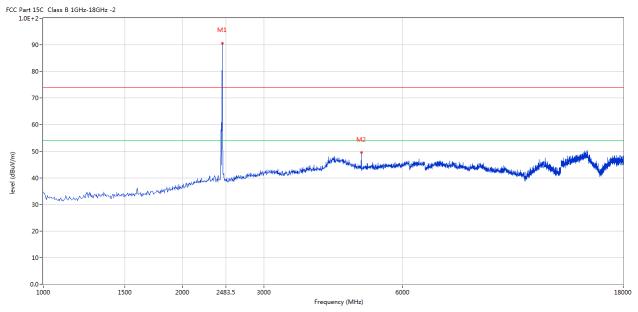
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#### Middle Channel: Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	4879.280	49.55	3.20	74.0	-24.45	Peak	271.00	100	Horizontal	Pass

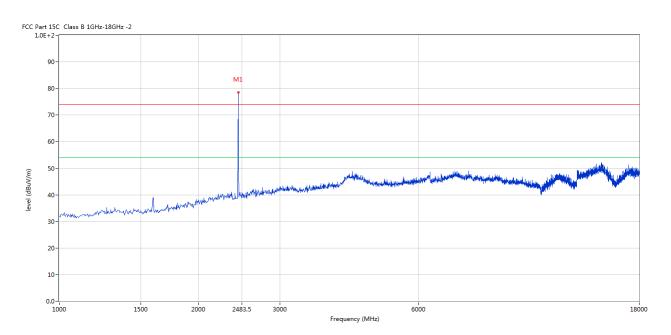
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## Middle Channel: Vertical

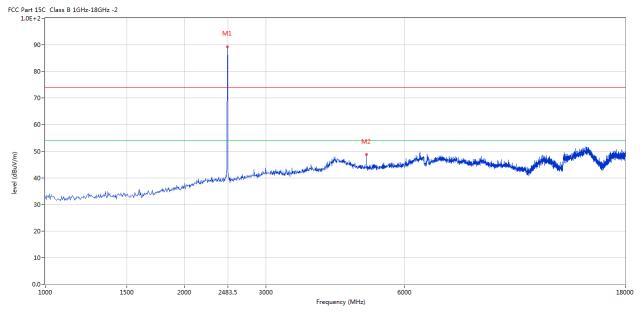


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# **High Channel: Horizontal**



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	4960.010	48.70	3.36	74.0	-25.30	Peak	80.00	100	Horizontal	Pass

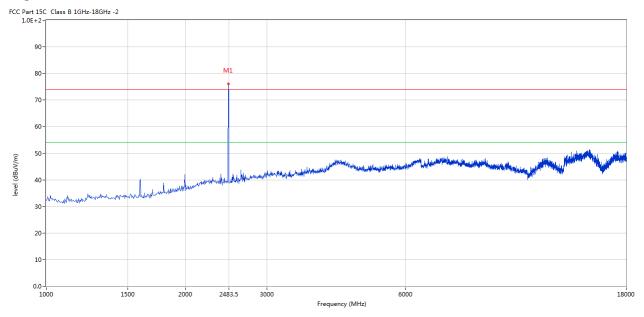
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## **High Channel: Vertical**



Note: 1. Level = Reading + AF + Cable - Preamp

- 2. For the radiated emissions above 18G, it is the floor noise.
- 3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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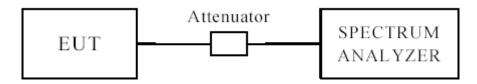
Report No.: TW2107059-02E

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## 7.0 6dB Bandwidth Measurement

# 7.1 Test Setup



## 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

## 7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode =  $\max$  hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 7.4 Test Result

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## 6dB BW

EUT		Screen Protector	Film Cutter	Model			Mini 8
Mode		Keep Trans	smitting	Input Voltag	e		120V~
Temperat	ure	24 deg	. C,	Humidity			56% RH
Channel	Ch	annel Frequency (MHz)		andwidth Hz)	М	inimum Limit (kHz)	Pass/ Fail
Low		2402	9	02		0.5	Pass
Middle		2440	9	02		0.5	Pass
High		2480	8	96		0.5	Pass

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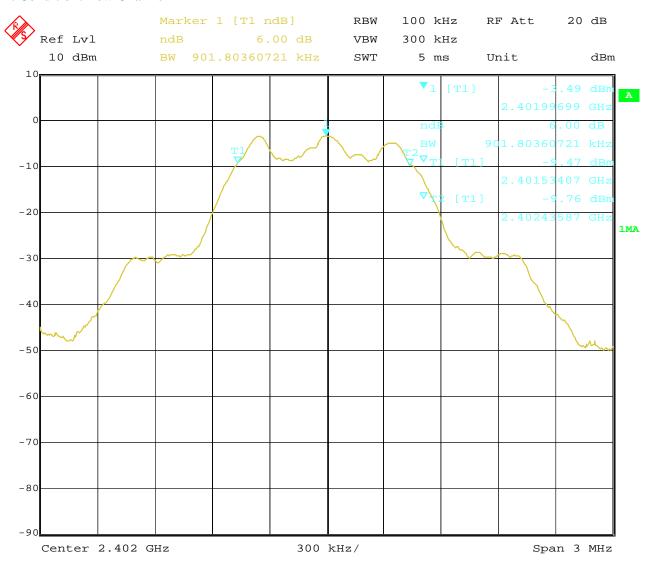
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# Test Figure:

# 1. Condition: Low Channel



Date: 4.AUG.2021 09:50:28

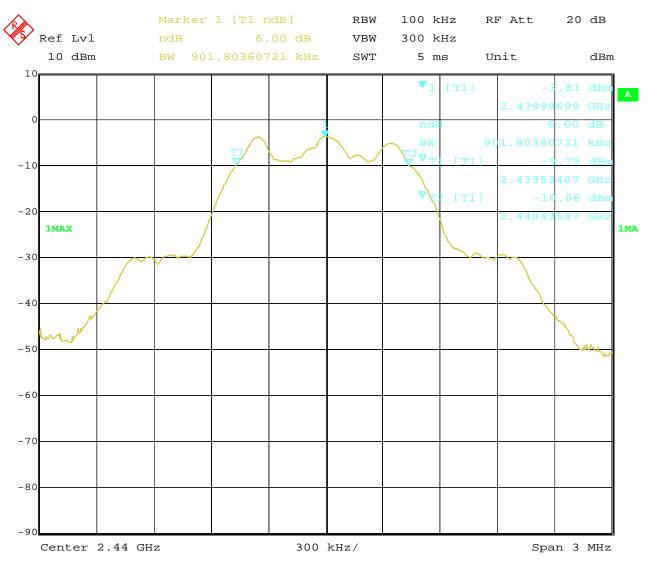
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## 2. Condition: Middle Channel



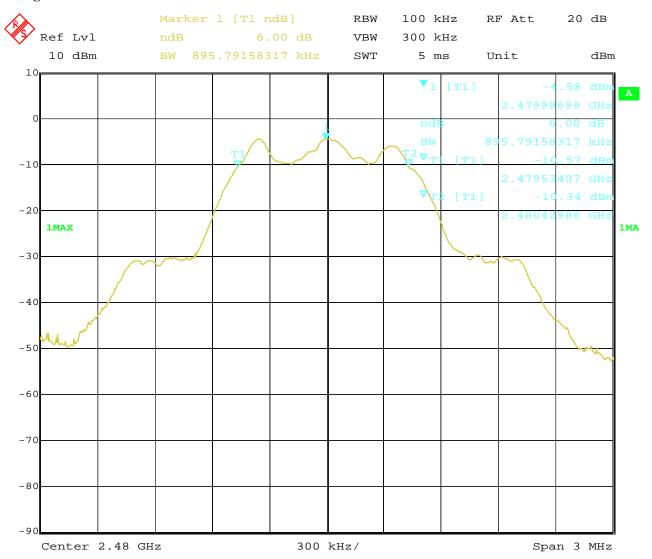
Date: 4.AUG.2021 09:54:58

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# 3. High Channel



Date: 4.AUG.2021 09:57:34

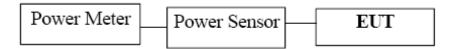
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# 8. Maximum Output Power

# 8.1 Test Setup



## 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

#### **8.3 Test Procedure**

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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#### **8.4Test Results**

EUT		Screen Protector I	Film Cutter	Model		Mini 8	
Mode		Keep Transm	nitting	Input Voltage		120V~	,
Temperatu	re	24 deg. (	Ξ,	Humidity		56% RI	Н
Channel	Cl	nannel Frequency	Max	x. Power Output (dB	m)	Peak Power Limit	Pass/ Fail
Chamier		(MHz)		Peak		(dBm)	
Low		2402		-2.35		30	Pass
Middle		2440		-2.66		30	Pass
High		2480		-3.44		30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

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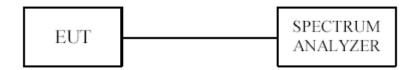
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# 9. Power Spectral Density Measurement

# 9.1 Test Setup



## 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

#### 9.3 Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW = 10 kHz.
- 3. Set the VBW  $\geq$  30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be  $\leq 8 \text{ dBm/3kHz}$ .

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#### 9.4Test Result

EUT		Screen	Protector File	m Cutter	Model	N	Iini 8
Mode		Κe	ep Transmitt	ing	Input	12	20V~
					Voltage		
Temperati	ure		24 deg. C,		Humidity	56	% RH
	Peak	Power	Cable	Final Po	wer Spectral	Maximum	
Channel	Re	ading	Loss	D	ensity	Limit	Pass/ Fail
	(d	lBm)	(dB)	(dBn	n/10kHz)	(dBm/3kHz)	
Low	-(	6.61	0.2	-	-6.41	8	Pass
Middle	-'	7.19	0.2	-	-6.99	8	Pass
High	-:	8.07	0.2		-7.87	8	Pass

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

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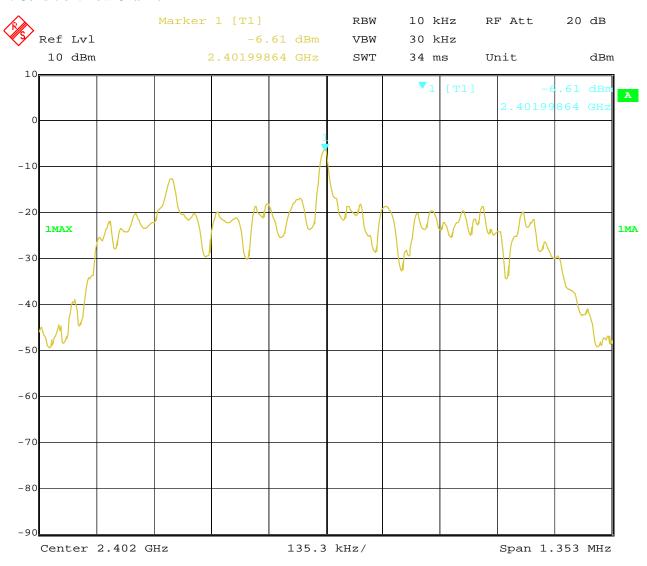
Report No.: TW2107059-02E

Date: 2021-08-05



# Test Figure:

# 1. Condition: Low Channel



Date: 4.AUG.2021 10:00:38

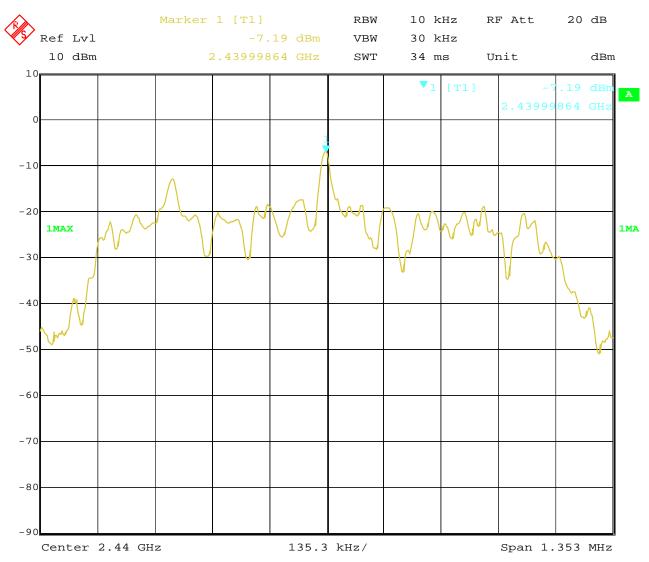
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## 2. Condition: Middle Channel



Date: 4.AUG.2021 10:01:11

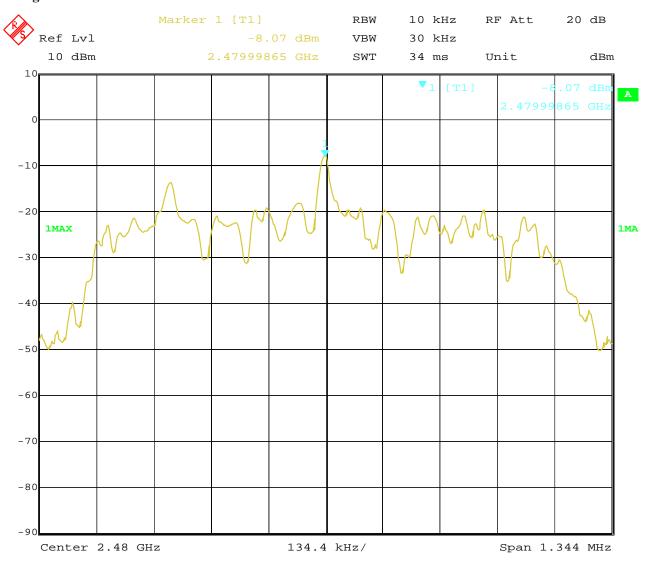
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# 3. High Channel



Date: 4.AUG.2021 10:02:11

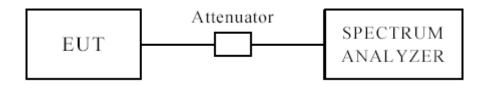
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# 10 Out of Band Measurement 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

#### 10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

#### **10.3 Test Procedure**

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

### 10.4 Test Result

Please see next pages

Note: For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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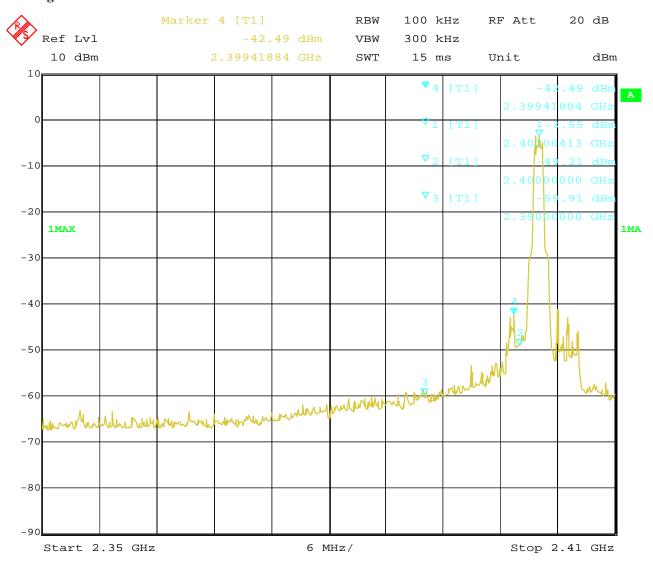
Date: 2021-08-05



## **10.4** Band-edge Measurement

EUT	Screen Protector Film Cutter	Model	Mini 8
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



Date: 4.AUG.2021 10:04:01

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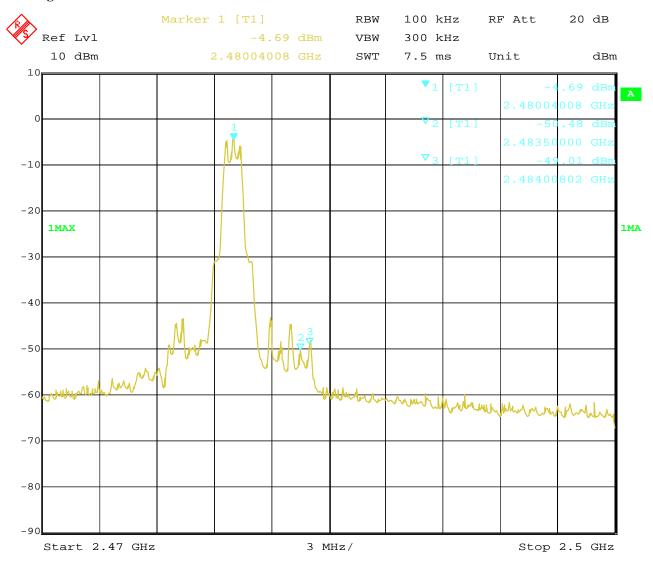
Date: 2021-08-05



## **10.4** Band-edge Measurement

EUT	Screen Protector Film Cutter	Model	Mini 8
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

# **Test Figure:**



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#### **10.4** Restrict Band Measurement

	EUT	Screen Pro	tector Film Cutter	Model			Mi	ni 8	
	Mode	Keep	Transmitting	Input Voltag	je –		120	)V~	
To	emperature	2-	4 deg. C,	Humidity			56%	6 RH	
T	est Result:		Pass						
C Part	15C Class B 1GHz-18GHz +2-	-2							
	90-							M1	
	60-						M <sub>2</sub>		
								-	
	40-	an we defend on the desired to be a state and be so the	and the second section of the second section of the second section of the second section of the second section	nd printerpolicy design and printerpolicy of the life	Ma	dayikayidilifi dagayidi		<b>*</b>	<b>\</b>
		despitalizations to dismit subject with a being it.	مهوم المراجع والمراجع	adicipation in the second section of the second		agitantik fladavili		,	hyllin la Ang
	40 - mally organizat Males and a second	daaşti, hiyad an i dadard indo <u>asil kus</u> tinde ih	મહામાનો તામ મુખ્યત્વે કે તેમ કર્યા છે. તેમ તામ તામ તામ તામ તામ તામ તામ તામ તામ તા	nedictional interpretation of the second process of the second pro		ngi ngi kilip kapani di		<b>*</b>	<b>\</b>
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(Angr) Isasi	40	المعاونة المتوسط المتواجعة	n productivity productive in the second productive for the second prod	ndistablishipti dadan in naga aptili		anglanda dankarik		\ 	N/N/A
II/angn) Isasi	40 - www. the fraction of the control of the contro	ત્રાં કર્યું તેમ ત્રાં ત્ર	ngengina na pingina kana kana kana kana kana kana kana k	Frequency (MHz)		anglasiski fladkasiski		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2410
	40	Results	Factor Limit			Table	Height	ANT	
	30- 20- 10- 2350			Frequency (MHz)  Over Limit	idyk syndika v aktifi		p v ·	ANT	2410 Verdict

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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#### 10.4 Restrict Band Measurement

	EUT	Screen Pr	otector Film (	Cutter	Mode	el		Mi	ni 8	
	Mode	Кеер	Transmitting	g	Input Vol	Itage		120	)V~	
Te	emperature	2	24 deg. C,		Humid	ity		56%	6 RH	
Те	est Result:		Pass							
2 Part :	15C Class B 1GHz-18GHz -	2								
Ġ	90 -									
8	30-							M1		
7	70-							$\wedge$	<b>\</b> .	
	50-								<b>M</b> 1	
6										
								M2/	- Villaga	
	50-					M3	رار المراجعة	M2/		
	50-	uddinada da bayaran hafatha 1994 dha da kayan	ik di wan kidik miliangan adalah di wan kidik	territoria de la companio	adeniae adenido fribeno de ribitado	МЗ		M <sub>2</sub> /		Mu
	50-	adir abdiquina relativasi il eta esper	i ja ja sa	الموسار المراب المرابع	ويتفرون والمستورة والمستعددة والمستعددة والمستعددة والمستعددة والمستعددة والمستعددة والمستعددة والمستعددة والم	M3		MINIM		
2	10-	adinakijuanan dalamakinakina	ik ili namişik dipanetan ayıktılı na pirta	tagendra flant, al de la consequie	afeiriae airm of the program is quitte	МЗ	ikoderski je og jedini jedini i i i	MUNITAL STATES		
2	10 - millionis de productione de la companya de la	alimakiliyasan dashaqibilinida qar	ik ikum pikku disantan gerbiri, da pirta	engeralen floori wild before beginning	ishtiska admindyd diwnwyd w ddyddidd	M3		MYW)		hodu
3	10	odin addinina ndaharakin dan gan	ik ili cantigilli — of tree fate, age plain, in picific	territorii ed de consecuti	المستعدد الم	M3	indroibeath M	M/M/M		hyddid.
3	10	odinaki inananfataraki kedangan	ik ili wanigiki - aftarafan aya piri, wa pirifa		quency (MHz)	M3	inderstein der Alle	M/M/M		2410
3	10	Results				M3	Table	Height	ANT	1
	10		Factor L	Frec	quency (MHz)	adapter til Malak		Height (cm)	ANT	2410 Verdict

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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#### **10.4** Restrict Band Measurement

<b>U.4</b>	Resulct Da									
	EUT	Screen Protector Film Cutter			Model		Mini 8			
Mode Temperature		Keep Transmitting 24 deg. C,			Input Voltage		120V~			
					Humidity	7	56% RH			
T	est Result:	Pass								
1.0E-	90 - 80 - 770 -	.2	A constant							
	40 - 30 - 20 -	ARKANIA KANANIA KANANIA		MA	A STATE OF THE STA	ing the state of the supering	distributed dispolação de Sangar	ati sahaliphan, dana di sahasi b	idisellekipapanen hekistikan	<del>, a min</del>
(w/apa) jaaaj	40-	Maria da		2483			all de	ain, dudy day, the control and specify	Hiddhida haragan jaksi shirona	2500
level (dBuV/m)	30- 20- 2470 Frequency	Results	Factor (dB)	2483	5.5 Frequency (MHz)  Over Limit	Detector	Table	Height (cm)	Hiddhiga bawa a saki shi sana	2500
(m/\ngp) level	30 - 20 - 210 - 2470		Factor (dB)	2483	3.5 Frequency (MHz)			Height		

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#### **10.4** Restrict Band Measurement

	EUT	Screen Pr	otector Fil	lm Cutter	Model			Mini	8	
Mode		Keep Transmitting			Input Voltage		120V~			
Te	emperature	24 deg. C, Pass			Humidity					
Т	est Result:									
FCC Part 1.0E	15C Class B 1GHz-18GHz -2	2								
	80-									
level (dBuV/m)	40-14-14-14-14-14-14-14-14-14-14-14-14-14-	tenikah, ang militelah di depik da di kang da di		The state of the s	an industry of the party of the	-sydiacion di Hoseille-L	doesely high section to be the	مردب إفلاقت المستخد أتباتين	och dark get sich in heise heise	dilippaka
level (dBuV/m)	50- 40-11-14-14-14-14-14-14-14-14-14-14-14-14-	terinak di unungkak di dikik di kalandar		2483.5	quency (MHz)	and technique discount from	drawk kill met bet der	البرداد الخالفة أو ما تعد الوسائد.	ochesh seechi, kohen	2500
level (dBuV/m)	50- 40-h 444 - 10-h 44	Results	Factor	2483.5	quency (MHz)	Detector	Table	Height	ANT	
level (dBuV/m)	30- 20- 2470	mm partary ()	Factor (dB)	2483.5 Fred	quency (MHz)					2500

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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# 11.0 Antenna Requirement

# 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

### 11.2 Antenna Connected construction

PCB antenna used. The gain of 2.0dBi.

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#### 12.0 FCC ID Label

# FCC ID: 2AVGR-MINI8MINI9

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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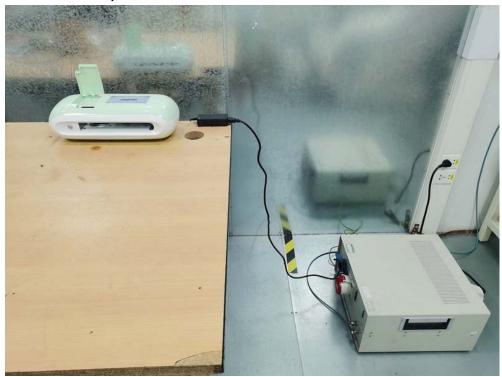
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#### 13.0 Photo of testing

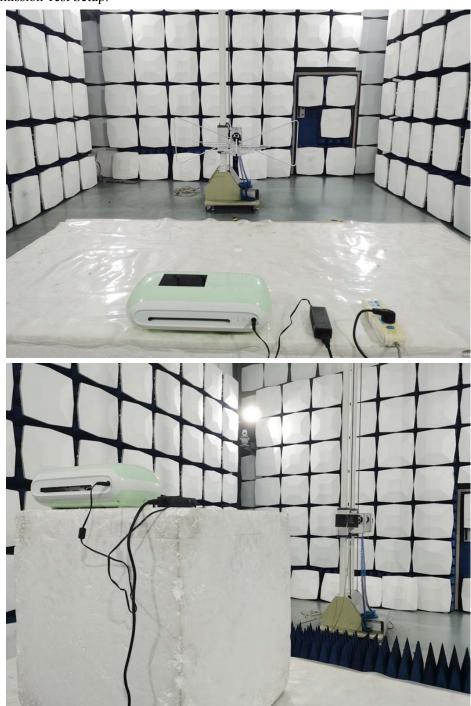
Conducted Emission Test Setup:



Date: 2021-08-05



## Radiated Emission Test Setup:



# Photographs - EUT

Please refer test report TW2107059-01E

# End of the report

The report refers only to the sample tested and does not apply to the bulk.

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