

# **TEST REPORT**

Report No.: BCTC2201144129-1E

Applicant: mophie LLC

Product Name: mophie snap+juice pack mini

Model/Type Ref.: SNP-JP-MINI-5K-M2

Tested Date: 2022-01-27 to 2022-02-22

Issued Date: 2022-02-22





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## FCC ID: 2ACWB-SNAP5KM2

Product Name: mophie snap+juice pack mini

Trademark: mophie

Model/Type Ref.: SNP-JP-MINI-5K-M2

Prepared For: mophie LLC

Address: 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

Manufacturer: mophie LLC

Address: 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei,

Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2022-01-27

Sample tested Date: 2022-01-27 to 2022-02-22

Issue Date: 2022-02-22

Report No.: BCTC2201144129-1E

Test Standards: FCC Part15.209 ANSI C63.10-2013

Test Results: PASS

Tested by:

Brave 2emg

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

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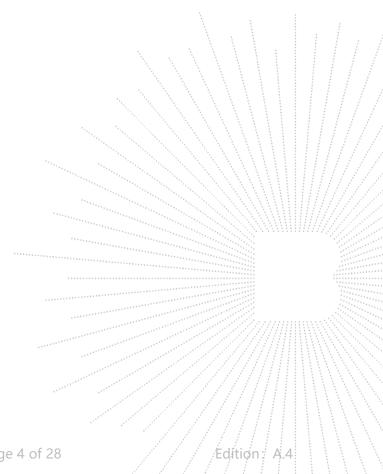
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(Note: N/A Means Not Applicable)



## 1. Version

Report No.	Issue Date	Description	Approved
BCTC2201144129-1E	2022-02-22	Original	Valid



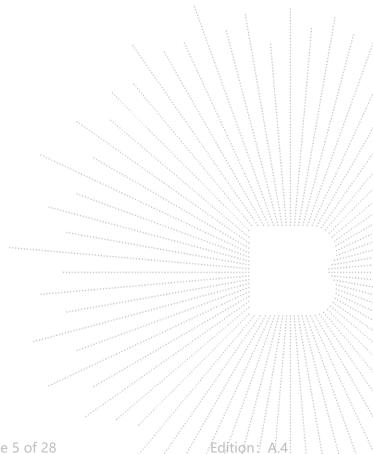
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## 2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted Emission	15.207	PASS
2	Radiated Emission	15.209	PASS
3	20dB Bandwidth	15.215	PASS
4	Antenna Requirement	15.203	PASS



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## 3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

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#### 4. Product Information And Test Setup

#### 4.1 Product Information

Model/Type Ref.: SNP-JP-MINI-5K-M2

Model differences: N/A

Product Description: mophie snap+juice pack mini

Operation Frequency: 115kHz-205kHz
Antenna installation: loop coil antenna

Ratings: AC 120V/60Hz/DC 3.7V

Hardware Version: P180P-5356-V1.0 Software Version: 0xCC04C6B2

#### Cable of Product

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1			Applicant		Yes/No	With a ferrite ring in mid Detachable
2			встс		Yes/No	-

## 4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.					\ \

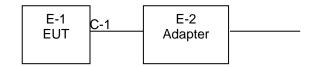
#### Notes:

- 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.

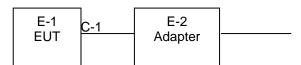
#### 4.3 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

#### Conducted Emission:



#### Radiated Spurious Emission





#### 4.4 Test Mode

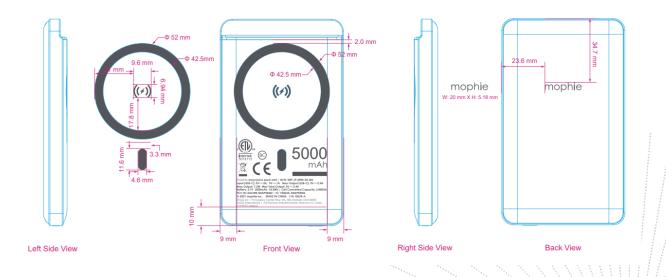
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

or mgaranon mode (o) mornion a above mae evaluate a respectivory.				
Test Modes 1	Charging ( DC 5V 2A)			
Test Modes 2	Charging ( DC 9V 1A)			
Test Modes 3	Charging ( DC 5V 2A)+Wireless 5W			
Test Modes 4	Charging ( DC 9V 1A)+Wireless 7.5W			
Test Modes 5	Wireless 5W			
Test Modes 6	Wireless 7.5W			
Test Modes 7	USB-C Discharge 5V 1.4A + Wireless 5W			
Test Modes 8	USB-C Output DC 5V 2.4A			

#### Note:

All test mode were tested and passed, only Conducted Emissions, Radiated Emissions shows (\*) is the worst case mode which were recorded in this report.

## 4.5 Copy of marking plate





#### 5. Test Facility And Test Instrument Used

## 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

## 5.2 Test Instrument Used

	Conducted emissions Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022		
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022		
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\		
Attenuator	\	10dB DC-6GHz	1650	May 28, 2021	May 27, 2022		

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	V Contraction of the Contraction	May 28, 2021	May 27, 2022

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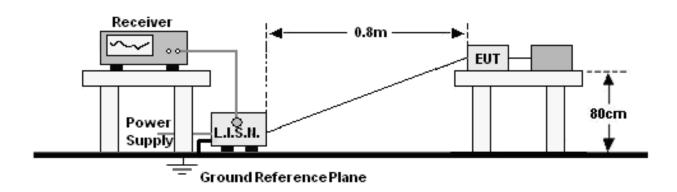
Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	Jun. 01, 2021	May 31, 2022
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 02, 2021	Jun. 01, 2022
Horn Antenn(18GHz -40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	Jun. 14, 2022
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	Jun. 02, 2021	Jun. 01, 2022
RF cables1(9kHz- 30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-00 08	May 28, 2021	May 27, 2022
RF cables2(30MH z-1GHz)	Huber+Suhnar	30MHz-1GH z	1486150	May 28, 2021	May 27, 2022
RF cables3(1GHz- 40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	*****	May 28, 2021	May 27, 2022
Signal Analyzer20kHz -26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE	· · · · · · · · · · · · · · · · · · ·	1

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#### 6. Conducted Emissions

## 6.1 Block Diagram Of Test Setup



#### 6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)		
	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

#### Notes:

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

#### 6.3 Test Procedure

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency 30 MHz		
IF Bandwidth	9 kHz	

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

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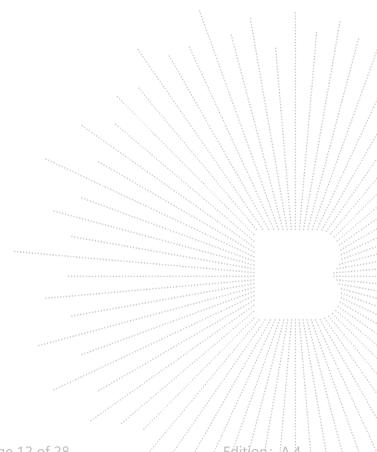
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



## 6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

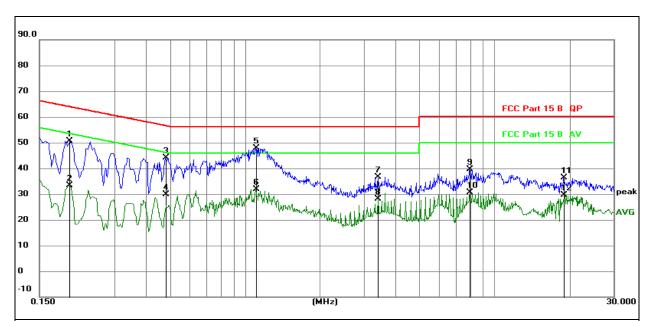


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#### 6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



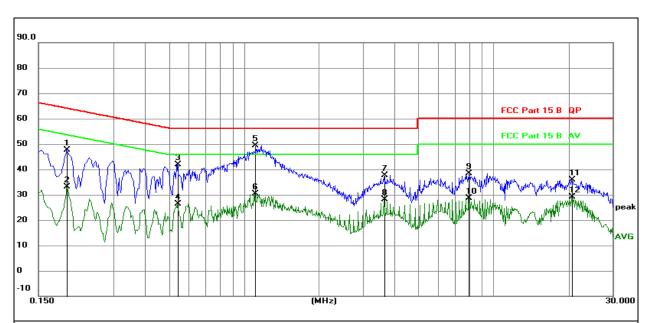
- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.
   Measurement=Reading Level+ Correct Factor

- 4. Over=Measurement-Limit

			Deceller	0	N.4			
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1986	31.01	19.60	50.61	63.67	-13.06	QP
2		0.1986	13.89	19.60	33.49	53.67	-20.18	AVG
3		0.4812	24.62	19.61	44.23	56.32	-12.09	QP
4		0.4812	10.25	19.61	29.86	46.32	-16.46	AVG
5	*	1.1056	28.34	19.62	47.96	56.00	-8.04	QP
6		1.1056	12.38	19.62	32.00	46.00	-14.00	AVG
7		3.4174	16.89	19.66	36.55	56.00	-19.45	QP
8		3.4174	8.49	19.66	28.15	46.00	-17.85	AVG
9		7.9353	19.94	19.75	39.69	60.00	-20.31	QP
10		7.9353	10.96	19.75	30.71	50.00	-19.29	AVG
11		18.9205	16.70	19.75	36.45	60.00	-23.55	QP
12		18.9205	9.99	19.75	29.74	50.00	-20.26	AVG



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.
- 3. Measurement=Reading Level+ Correct Factor
- 4. Over=Measurement-Limit

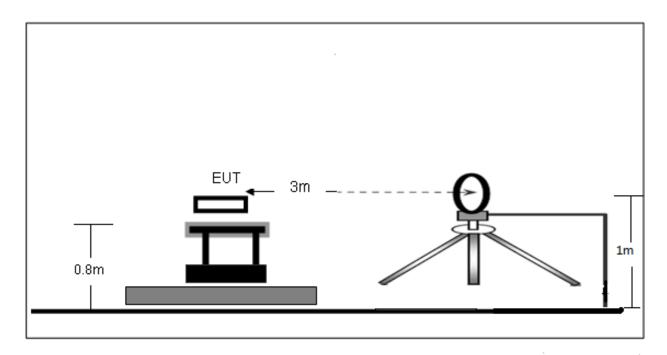
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1949	28.00	19.60	47.60	63.83	-16.23	QP
2		0.1949	13.46	19.60	33.06	53.83	-20.77	AVG
3		0.5415	22.17	19.61	41.78	56.00	-14.22	QP
4		0.5415	6.84	19.61	26.45	46.00	-19.55	AVG
5	*	1.1085	29.83	19.62	49.45	56.00	-6.55	QP
6		1.1085	10.84	19.62	30.46	46.00	-15.54	AVG
7		3.6465	17.89	19.66	37.55	56.00	-18.45	QP
8		3.6465	8.41	19.66	28.07	46.00	-17.93	AVG
9		7.9530	18.58	19.75	38.33	60.00	-21.67	QP
10		7.9530	8.94	19.75	28.69	50.00	-21.31	AVG
11		20.6610	16.23	19.74	35.97	60.00	-24.03	QP
12		20.6610	9.33	19.74	29.07	50.00	-20.93	AVG



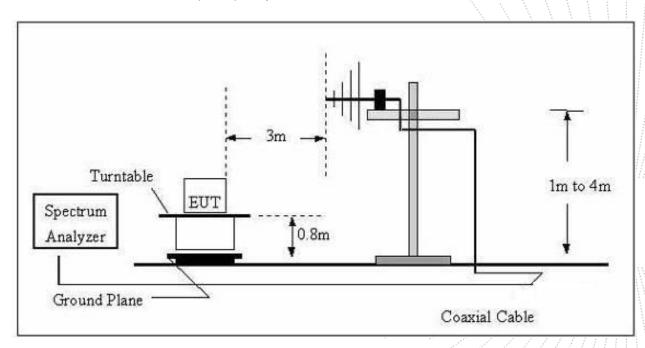
#### 7. Radiated Emissions

## 7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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#### 7.2 Limit

FCC §15.209; §15.205.

Test Standard	ndard FCC Part15 C Section 15.209 and 15.205										
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)						
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300						
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30						
	1.705MHz-30MHz	30	-	-	30						
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3						
	88MHz~216MHz	150	43.5	Quasi-peak	3						
	216MHz~960MHz	200	46.0	Quasi-peak	3						
	960MHz~1000MHz	500	54.0	Quasi-peak	3						
	A1 1000MII-	500	54.0	Average	3						
	Above 1000MHz		74.0	Peak	3						

#### 7.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

#### Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

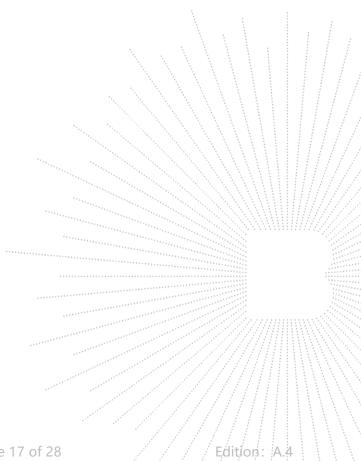
Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

#### 7.4 Test Result

Note: It only shows the worst mode 7, full load.

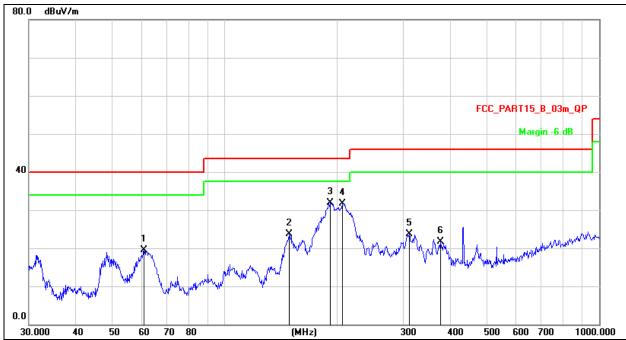


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#### Between 30MHz - 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization :	Horizontal

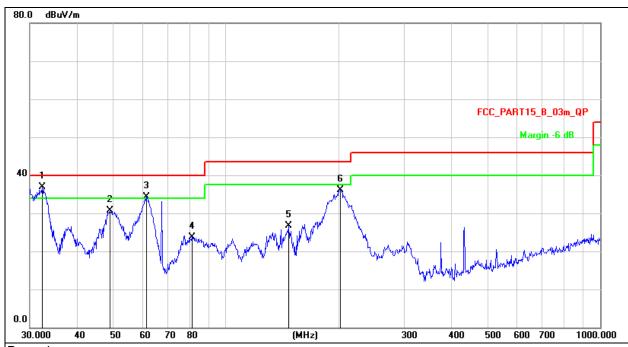


- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
  2. Measurement=Reading Level+ Correct Factor
  3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		60.9176	35.82	-16.25	19.57	40.00	-20.43	QP
2	1	148.4410	43.05	-19.39	23.66	43.50	-19.84	QP
3	* 1	91.0738	47.98	-16.17	31.81	43.50	-11.69	QP
4	2	206.3976	47.14	-15.35	31.79	43.50	-11.71	QP
5	3	311.0867	37.18	-13.44	23.74	46.00	-22.26	QP
6	3	377.2591	33.28	-11.51	21.77	46.00	-24.23	QP



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization :	Vertical

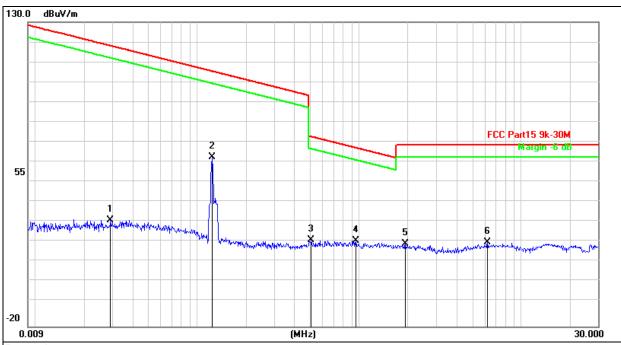


- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
  2. Measurement=Reading Level+ Correct Factor
  3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	32.4059	54.94	-18.07	36.87	40.00	-3.13	QP
2		49.1865	46.18	-15.55	30.63	40.00	-9.37	QP
3	İ	61.3463	50.72	-16.37	34.35	40.00	-5.65	QP
4		81.2117	43.93	-20.15	23.78	40.00	-16.22	QP
5		147.4036	46.08	-19.32	26.76	43.50	-16.74	QP
6		202.1005	51.51	-15.42	36.09	43.50	-7.41	QP



Temperature:	26℃	Relative Humidity:	54%	
Pressure:	101 kpa	Test Voltage:	AC 120V/60Hz	
Test Mode:	Mode 7	Polarization :	/	



- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- Measurement=Reading Level+ Correct Factor
   Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		0.0292	43.07	-10.72	32.35	118.3	-85.95	peak
2	*	0.1236	73.71	-10.13	63.58	105.7	-42.18	peak
3		0.5070	32.69	-10.26	22.43	73.50	-51.07	peak
4		0.9546	32.29	-10.23	22.06	68.02	-45.96	peak
5		1.9334	30.87	-10.17	20.70	69.54	-48.84	peak
6		6.2183	30.82	-9.49	21.33	69.54	-48.21	peak



#### 8. Bandwidth Test

- 1. Set RBW = 1%~5% OBW.
- 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 frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

**TEST SETUP** 

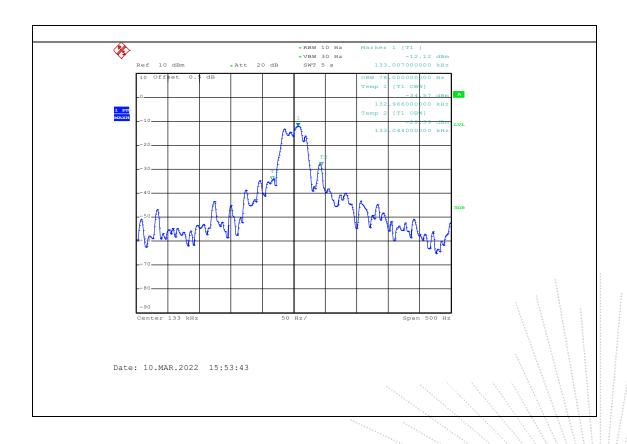
EUT SPECTRUM ANALYZER

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Temperature :	<b>26</b> ℃	Relative Humidity:	54%
Pressure :	101kPa		

Frequency (KHz)	20dB bandwidth (Hz)	Result
133	78	Pass



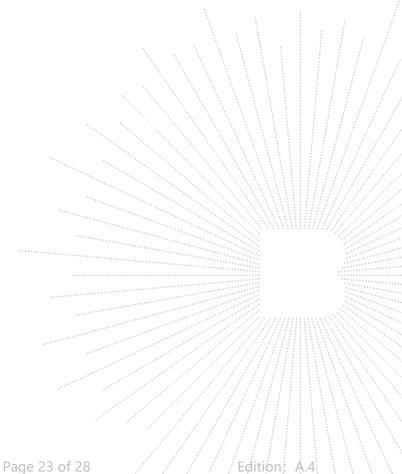
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## 9. Antenna Requirements

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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.

The antenna used for this product is Inductive loop coil antenna.



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## 10. EUT Photographs

## **EUT Photo 1**



#### **EUT Photo 2**



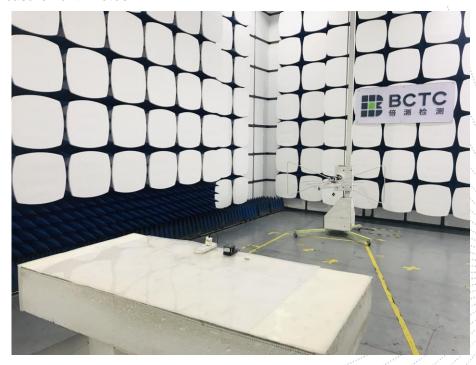


## 11. EUT Test Setup Photographs

## **Conducted emissions**

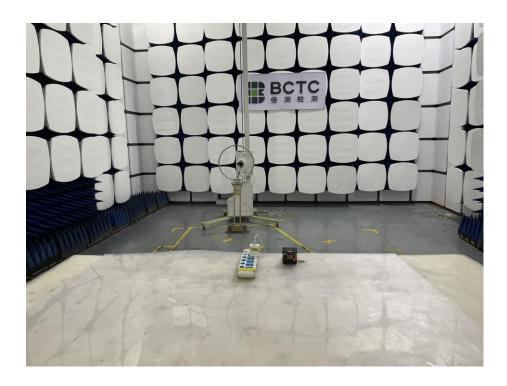


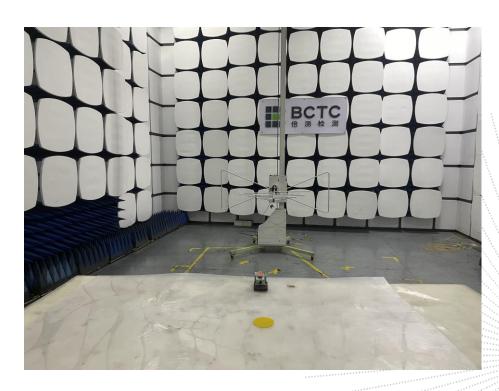
#### **Radiated Measurement Photos**



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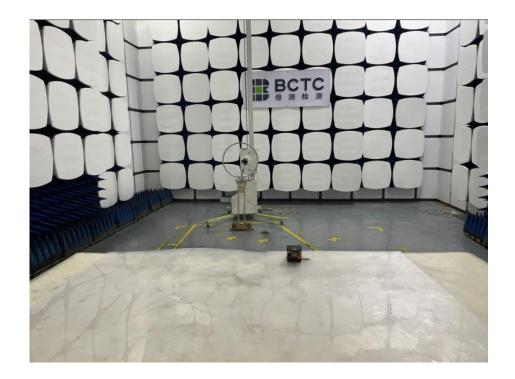


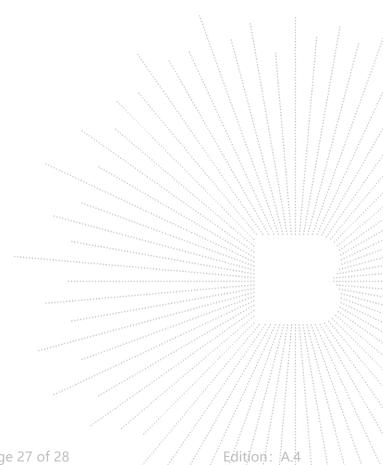




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## **STATEMENT**

1. The equipment lists are traceable to the national reference standards.

2.The test report can not be partially copied unless prior written approval is issued from our

lab.

3. The test report is invalid without stamp of laboratory.

4. The test report is invalid without signature of person(s) testing and authorizing.

5. The test process and test result is only related to the Unit Under Test.

6. The quality system of our laboratory is in accordance with ISO/IEC17025.

7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

#### Address:

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\*\*\*\* END \*\*\*\*

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