

TEST REPORT

Report No.: BCTC2305526769-1E

Applicant: ShenZhen Zhongyi Technology CO., Ltd.

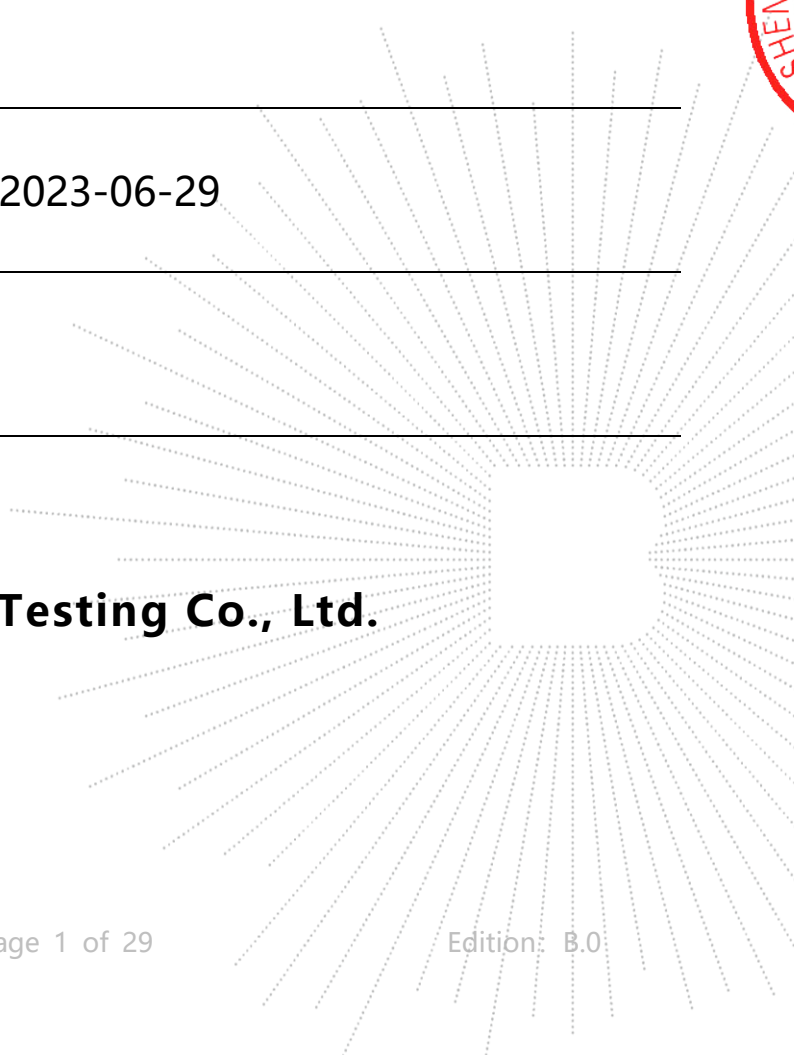
Product Name: 3in1 Foldable magnetic wireless charger

Model/Type Ref.: MSL-M1088Q

Tested Date: 2023-06-01 to 2023-06-29

Issued Date: 2023-06-29

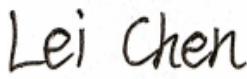
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2A9Q9-M1088Q

Product Name: 3in1 Foldable magnetic wireless charger
Trademark: N/A
Model/Type Ref.: MSL-M1088Q
WC38
Prepared For: ShenZhen Zhongyi Technology CO., Ltd.
Address: Room 401, No.4 Road One, Shangxue Science and Technology City, Xinxue Community, Bantian Street, Longgang District, Shenzhen, China
Manufacturer: ShenZhen Zhongyi Technology CO., Ltd.
Address: Room 401, No.4 Road One, Shangxue Science and Technology City, Xinxue Community, Bantian Street, Longgang District, Shenzhen, China
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2023-06-01
Sample tested Date: 2023-06-01 to 2023-06-29
Issue Date: 2023-06-29
Report No.: BCTC2305526769-1E
Test Standards: FCC Part15.209
ANSI C63.10-2013
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

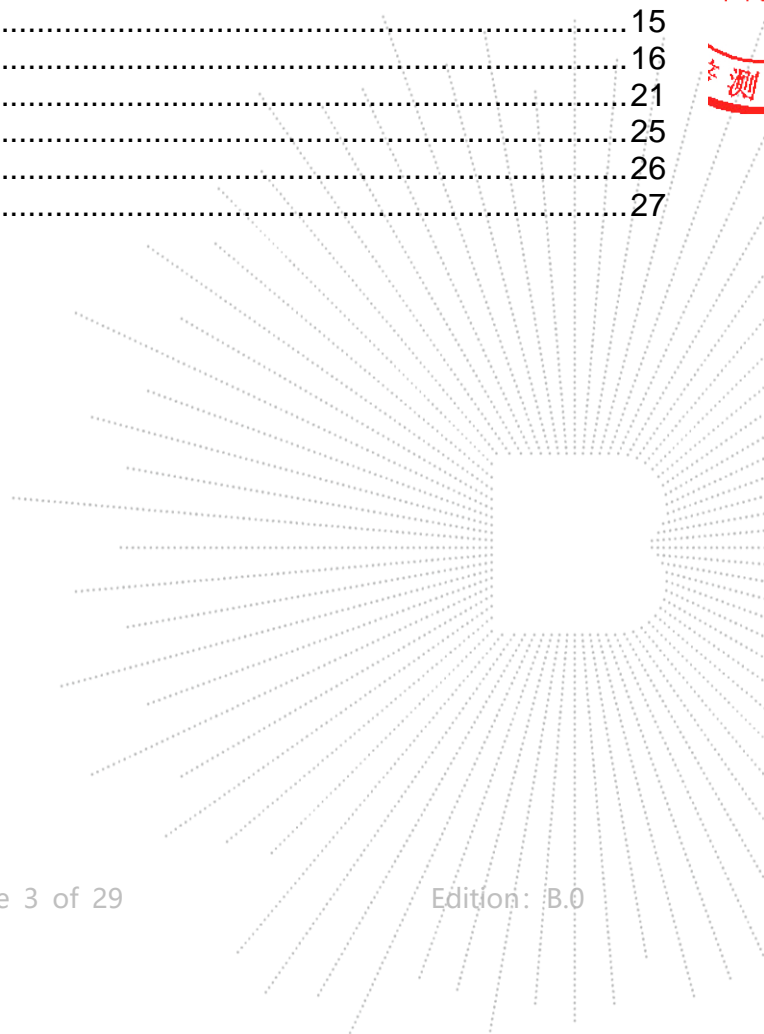
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(Note: N/A Means Not Applicable)

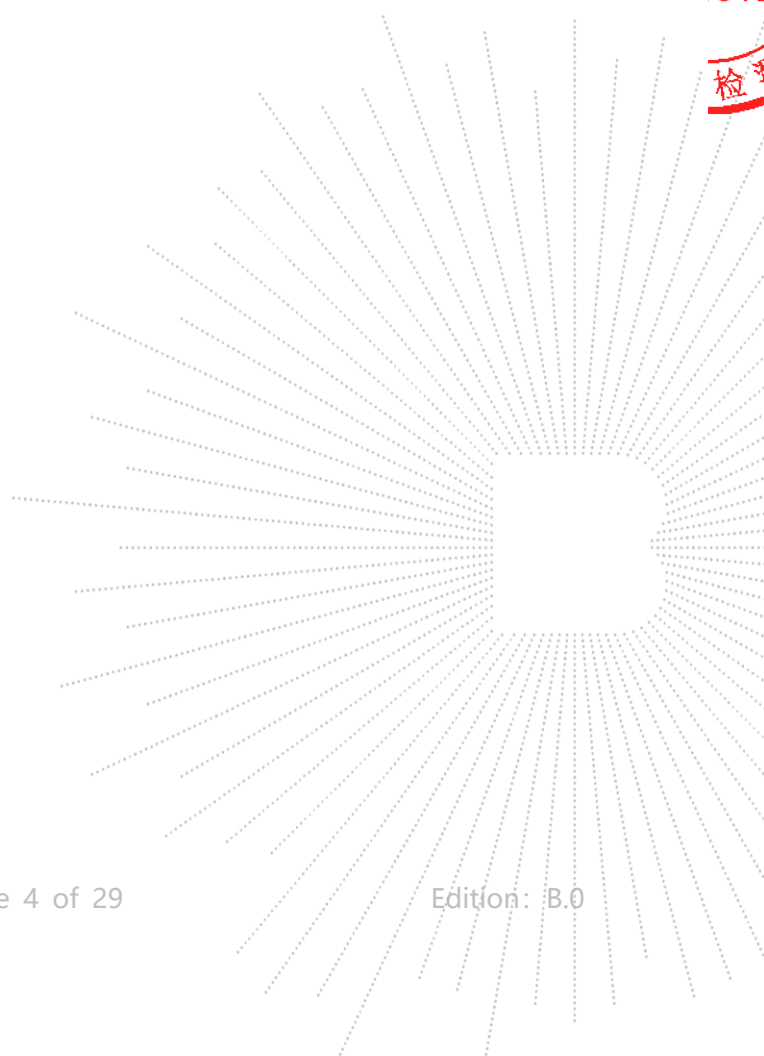
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2305526769-1E	2023-06-29	Original	Valid

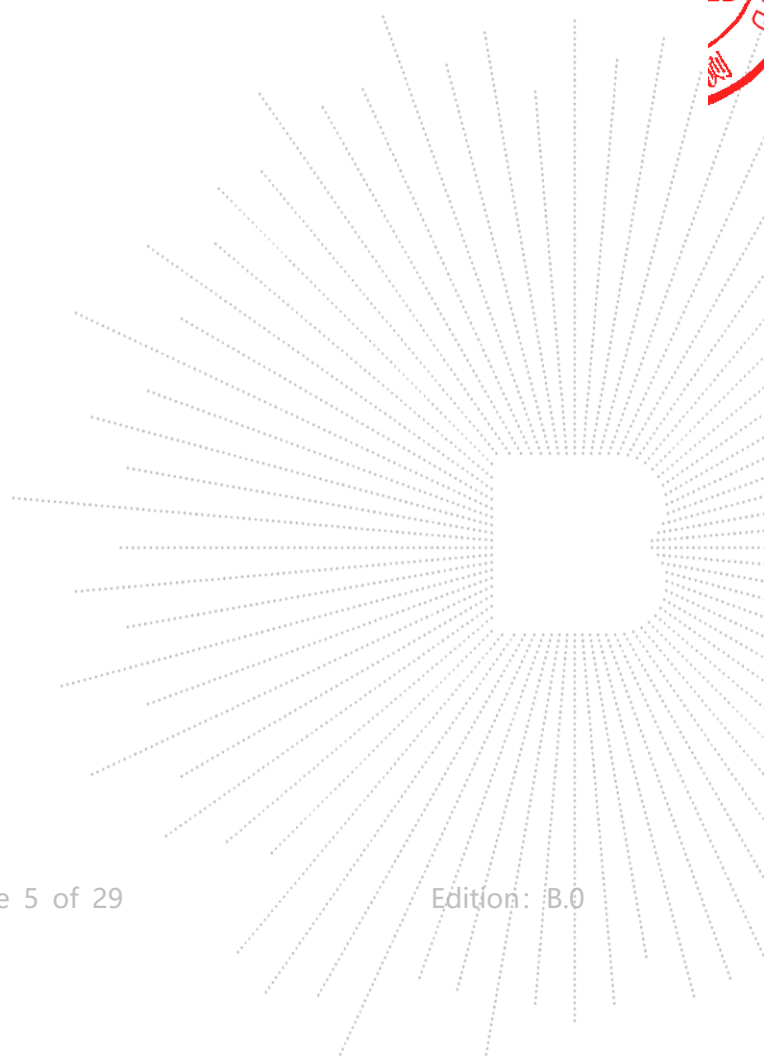
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2. Test Summary

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



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.:	MSL-M1088Q WC38
Model differences:	All the model are the same circuit and RF module, except model names.
Product Description:	3in1 Foldable magnetic wireless charger
Operation Frequency:	Wireless charging Output (Phone/ Earphone): 115kHz-205kHz, Wireless charging Output (Watch): 300-350kHz
Modulation type:	ASK
Antenna installation:	loop coil antenna
Ratings:	Type C Input: DC 5V/3A, 9V/3A, 12V/2A Wireless charging Output (Phone): 5W/7.5W/10W/15W Wireless charging Output (Earphone): 5W Wireless charging Output (Watch): 2W
Hardware Version:	N/A
Software Version:	N/A

4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	3in1 Foldable magnetic wireless charger	N/A	MSL-M1088Q	N/A	EUT
E-2	Adapter	N/A	CD122	N/A	Auxiliary
E-3	Dummy load	N/A	DL02	N/A	Auxiliary
E-4	Dummy load	N/A	DL01	N/A	Auxiliary
E-5	Dummy load	N/A	DL01	N/A	Auxiliary

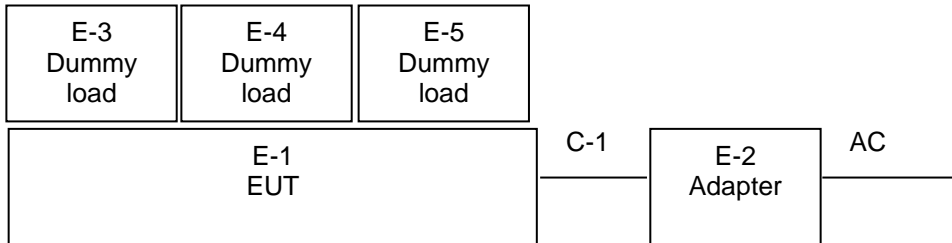
Notes:

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:

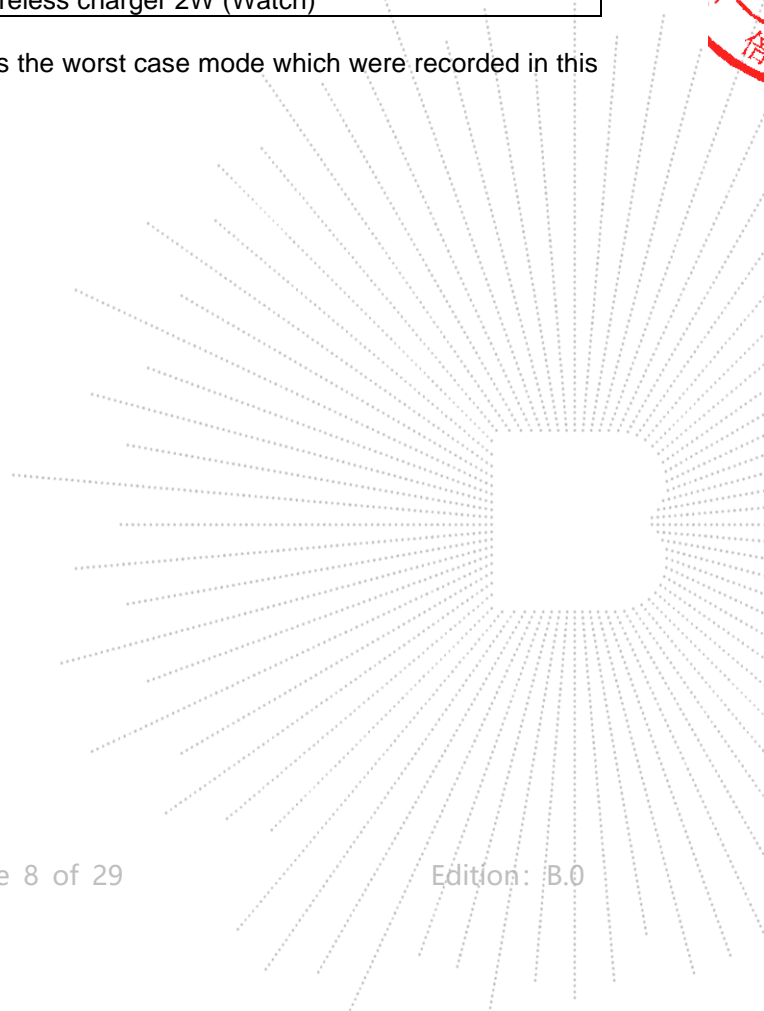


4.4 Test Mode

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

Test Mode 1	Wireless charger 5W (Phone) + Wireless charger 5W (Earphone) + Wireless charger 2W (Watch)
Test Mode 2	Wireless charger 7.5W (Phone) + Wireless charger 5W (Earphone) + Wireless charger 2W (Watch)
Test Mode 3	Wireless charger 10W (Phone) + Wireless charger 5W (Earphone) + Wireless charger 2W (Watch)
Test Mode 4	Wireless charger 15W (Phone) + Wireless charger 5W (Earphone) + Wireless charger 2W (Watch)

Note: All test mode were tested and passed, only shows the worst case mode which were recorded in this report.



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, Zhancheng, 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

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

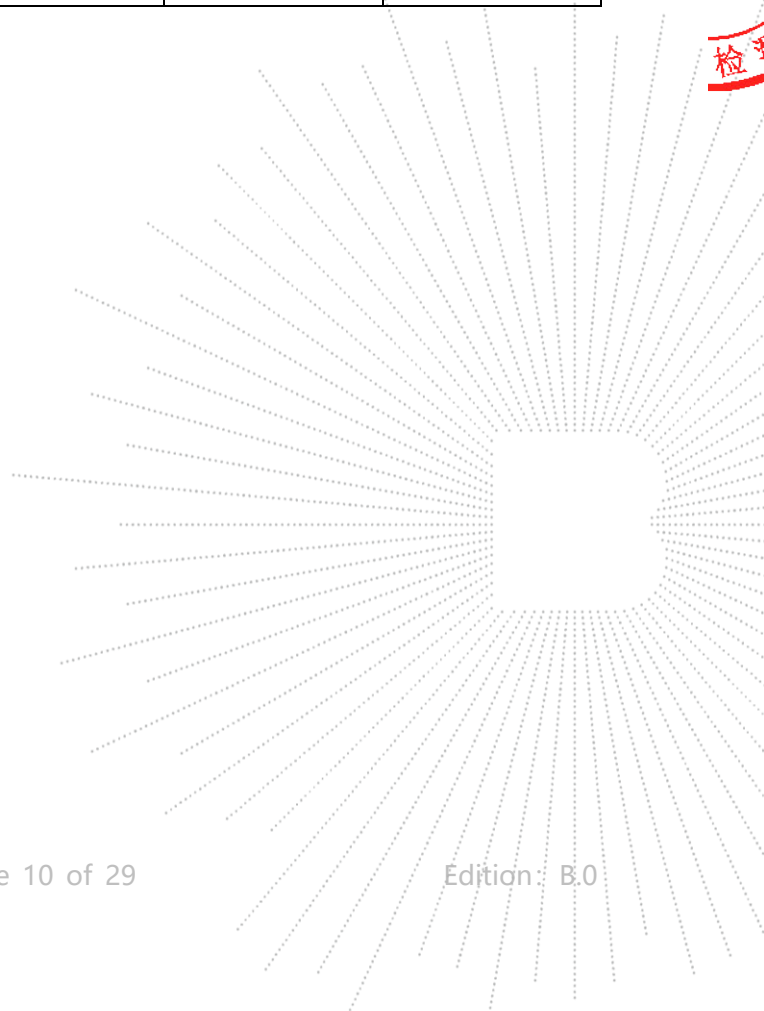
5.2 Test Instrument Used

Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024

Radiated Emissions Test (966 Chamber01)					
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 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 15, 2023	May 14, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 15, 2023	May 14, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 15, 2023	May 14, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

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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

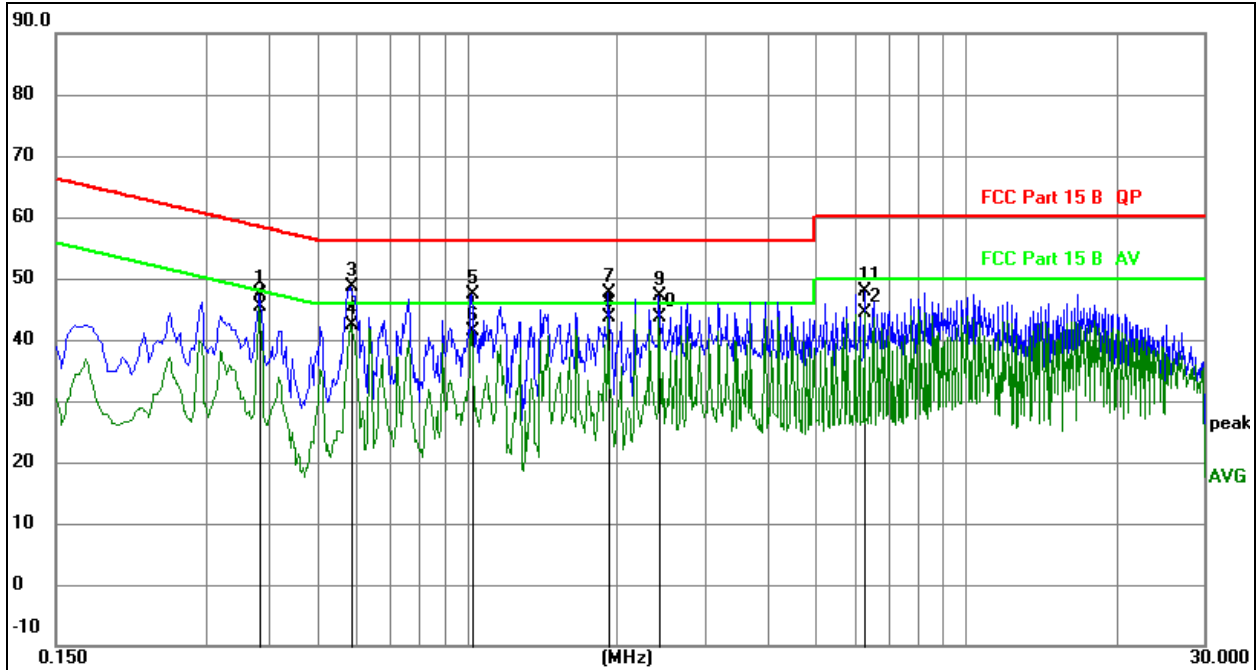
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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.
- 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.

6.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2 (the worst mode)

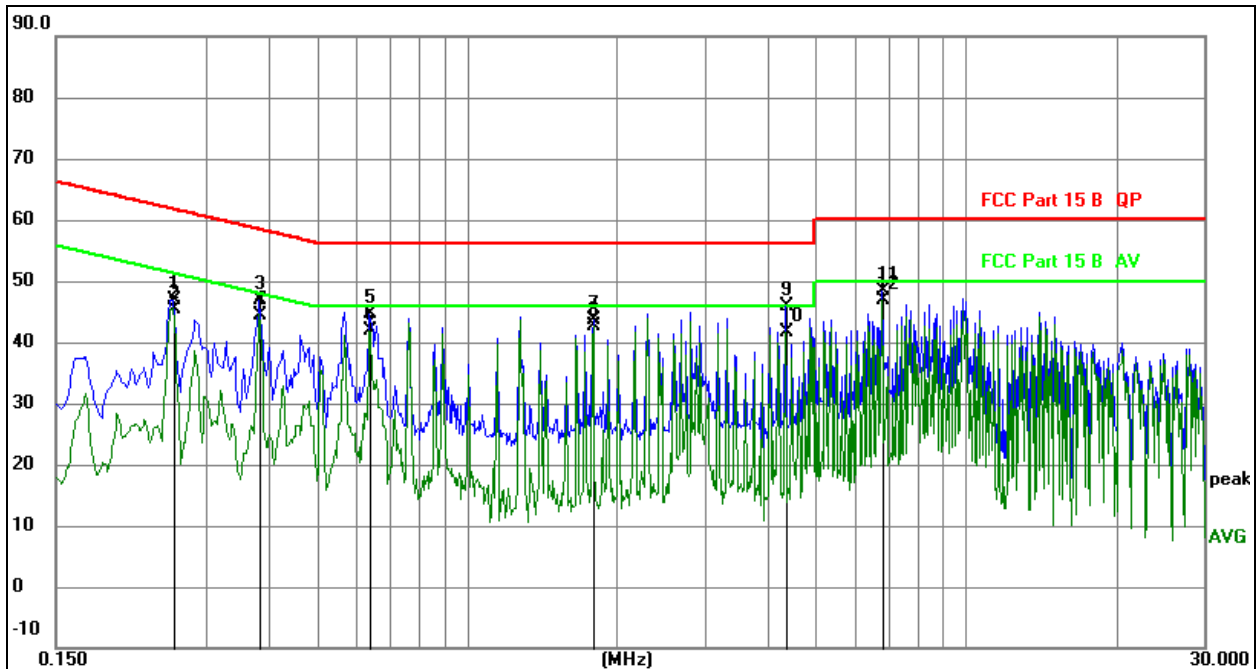


Remark:

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

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3840	27.71	19.75	47.46	58.19	-10.73	QP
2		0.3840	25.62	19.75	45.37	48.19	-2.82	AVG
3		0.5864	28.99	19.73	48.72	56.00	-7.28	QP
4		0.5864	22.58	19.73	42.31	46.00	-3.69	AVG
5		1.0229	27.57	19.76	47.33	56.00	-8.67	QP
6		1.0229	21.64	19.76	41.40	46.00	-4.60	AVG
7		1.9184	27.86	19.87	47.73	56.00	-8.27	QP
8		1.9184	23.65	19.87	43.52	46.00	-2.48	AVG
9		2.4314	27.19	19.93	47.12	56.00	-8.88	QP
10	*	2.4314	23.82	19.93	43.75	46.00	-2.25	AVG
11		6.2700	27.80	20.16	47.96	60.00	-12.04	QP
12		6.2700	24.26	20.16	44.42	50.00	-5.58	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2 (the worst mode)


Remark:

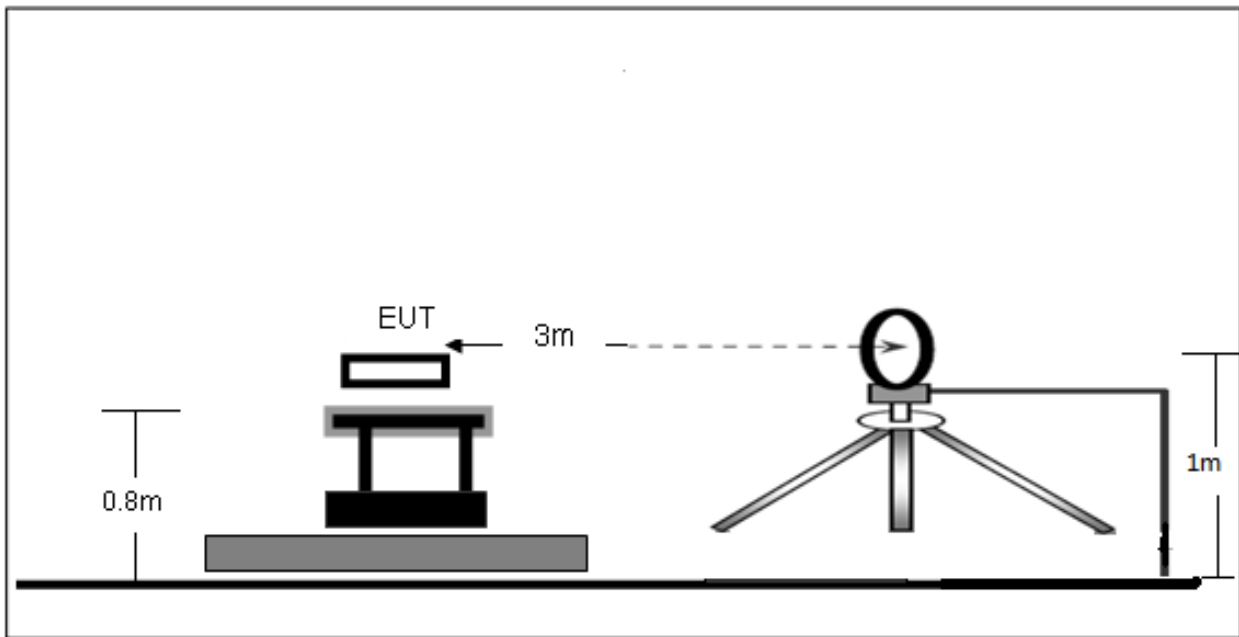
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over=Measurement-Limit

No. Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.2580	27.21	19.78	46.99	61.50	-14.51	QP
2	0.2580	25.72	19.78	45.50	51.50	-6.00	AVG
3	0.3840	27.20	19.75	46.95	58.19	-11.24	QP
4	0.3840	24.75	19.75	44.50	48.19	-3.69	AVG
5	0.6404	24.82	19.73	44.55	56.00	-11.45	QP
6	0.6404	22.03	19.73	41.76	46.00	-4.24	AVG
7	1.7924	23.78	19.85	43.63	56.00	-12.37	QP
8	1.7924	22.90	19.85	42.75	46.00	-3.25	AVG
9	4.3485	25.84	20.11	45.95	56.00	-10.05	QP
10	4.3485	21.61	20.11	41.72	46.00	-4.28	AVG
11	6.7830	28.10	20.17	48.27	60.00	-11.73	QP
12 *	6.7830	26.63	20.17	46.80	50.00	-3.20	AVG

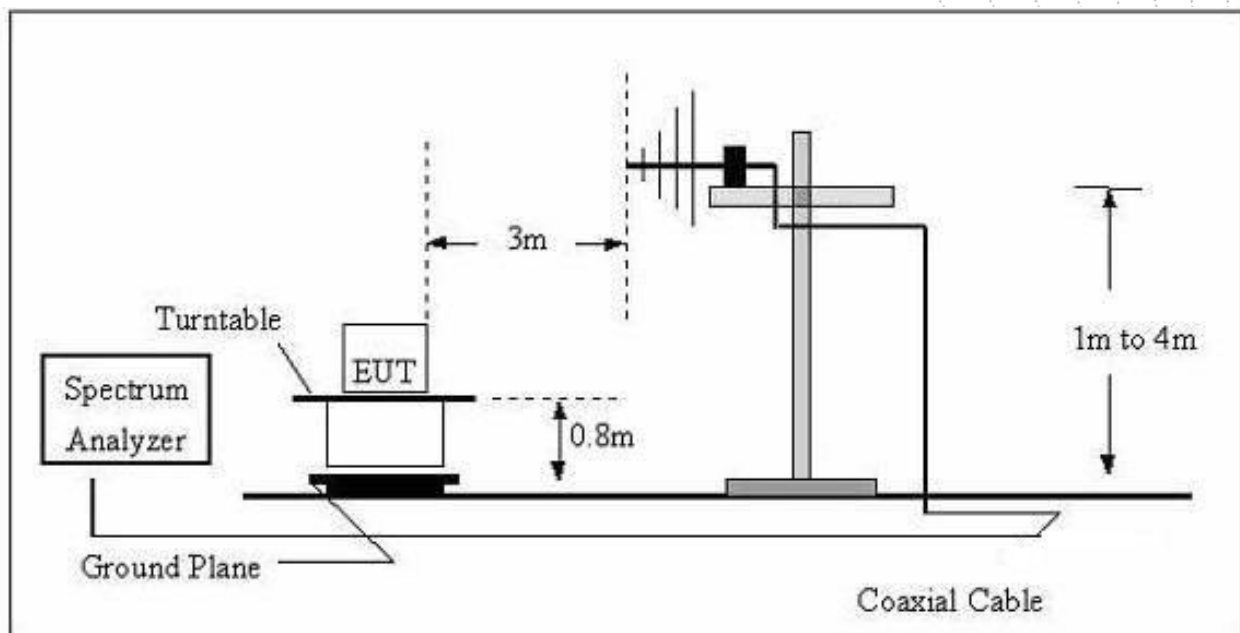
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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



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



7.2 Limit

FCC §15.209; §15.205.

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	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
	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
	Above 1000MHz	500	54.0	Average	3
-		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:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

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Above 1GHz test procedure as below:

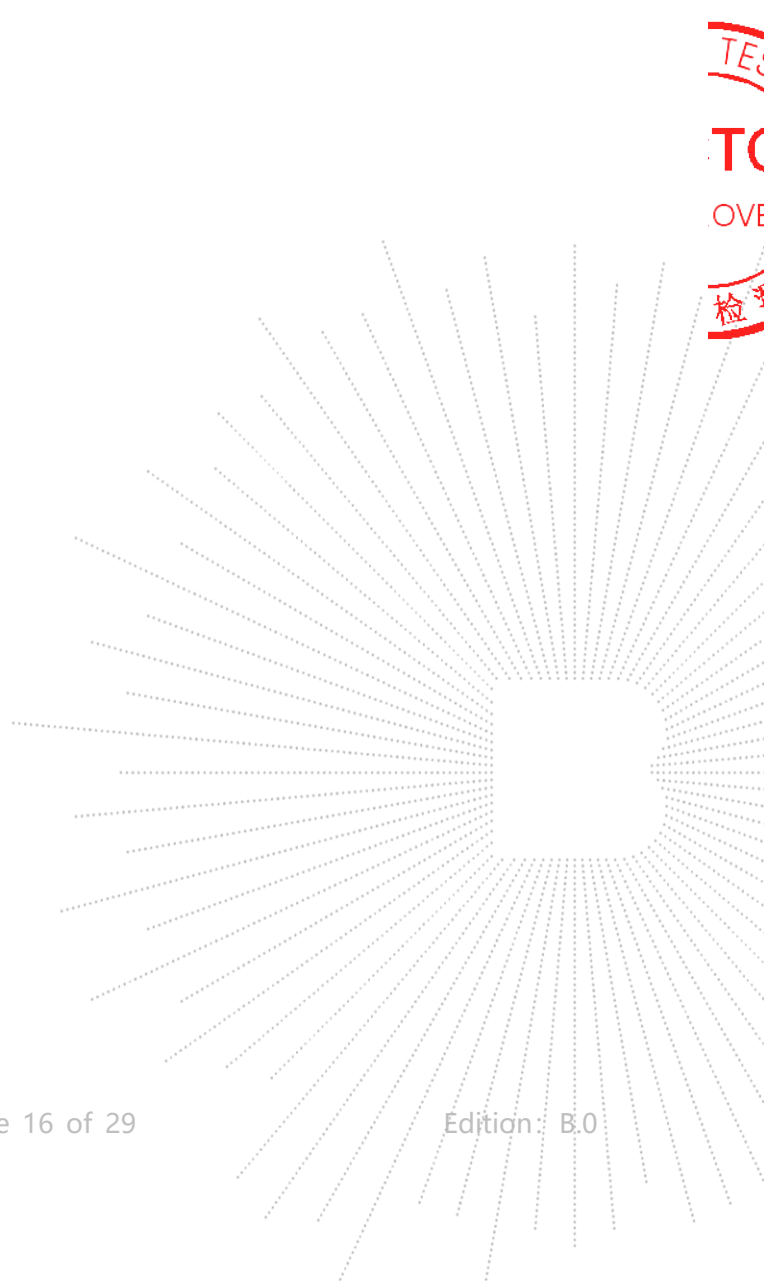
g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).

h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

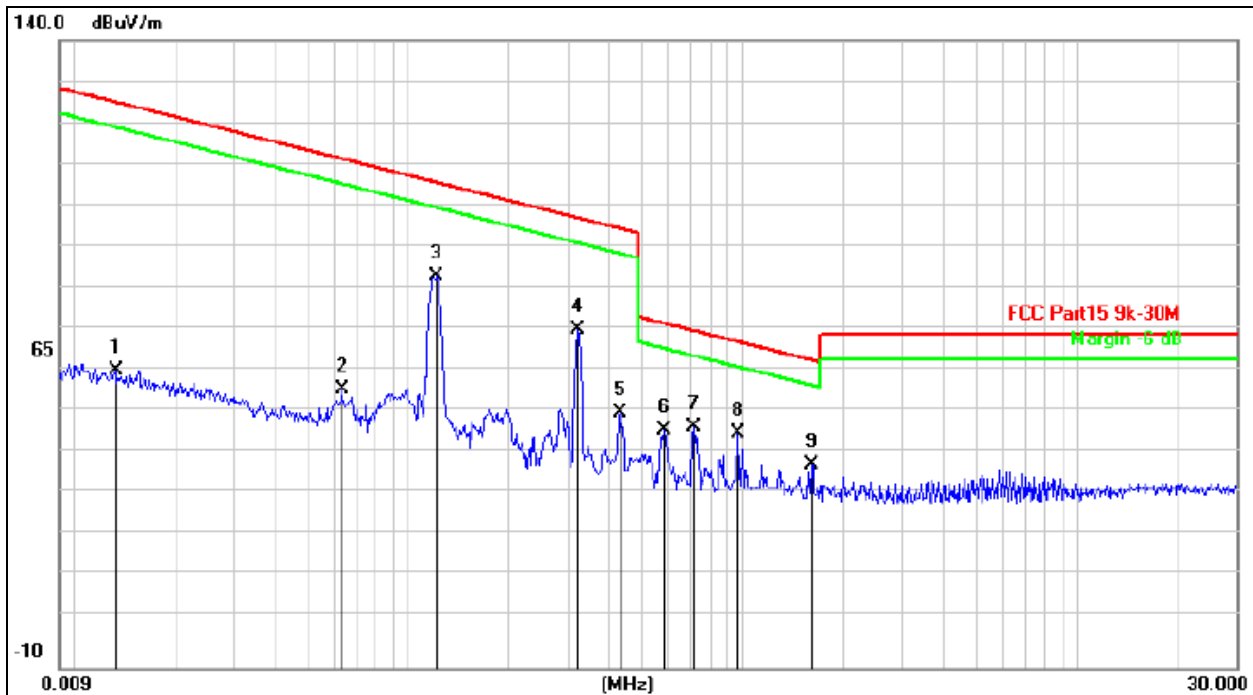
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 Test Result



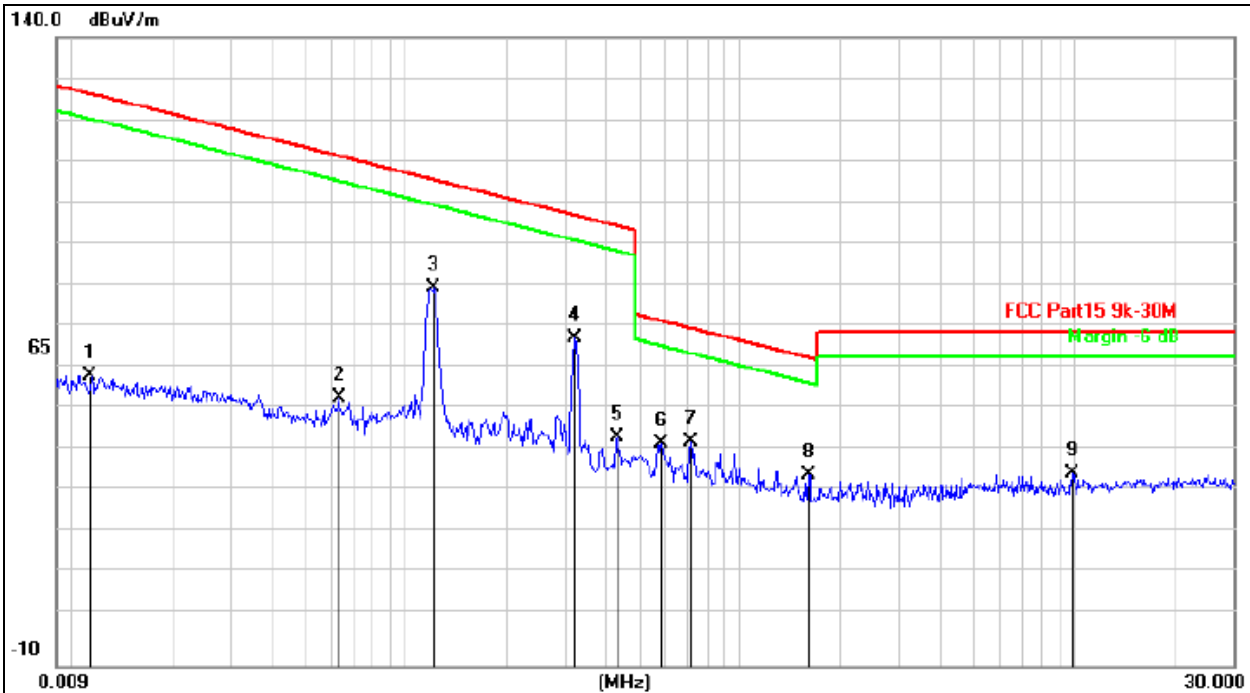
9kHz-30MHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 4 (the worst mode)	Polarization :	Coaxial



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.0132	71.40	-10.48	60.92	125.1	-64.27	peak
2		0.0631	67.00	-10.59	56.41	111.6	-55.19	peak
3		0.1215	93.66	-10.14	83.52	105.9	-22.39	peak
4		0.3220	81.08	-10.28	70.80	97.45	-26.65	peak
5		0.4277	61.35	-10.27	51.08	94.98	-43.90	peak
6		0.5820	57.18	-10.26	46.92	72.31	-25.39	peak
7		0.7129	57.87	-10.25	47.62	70.55	-22.93	peak
8	*	0.9625	56.29	-10.23	46.06	67.95	-21.89	peak
9		1.6046	48.91	-10.19	38.72	63.53	-24.81	peak

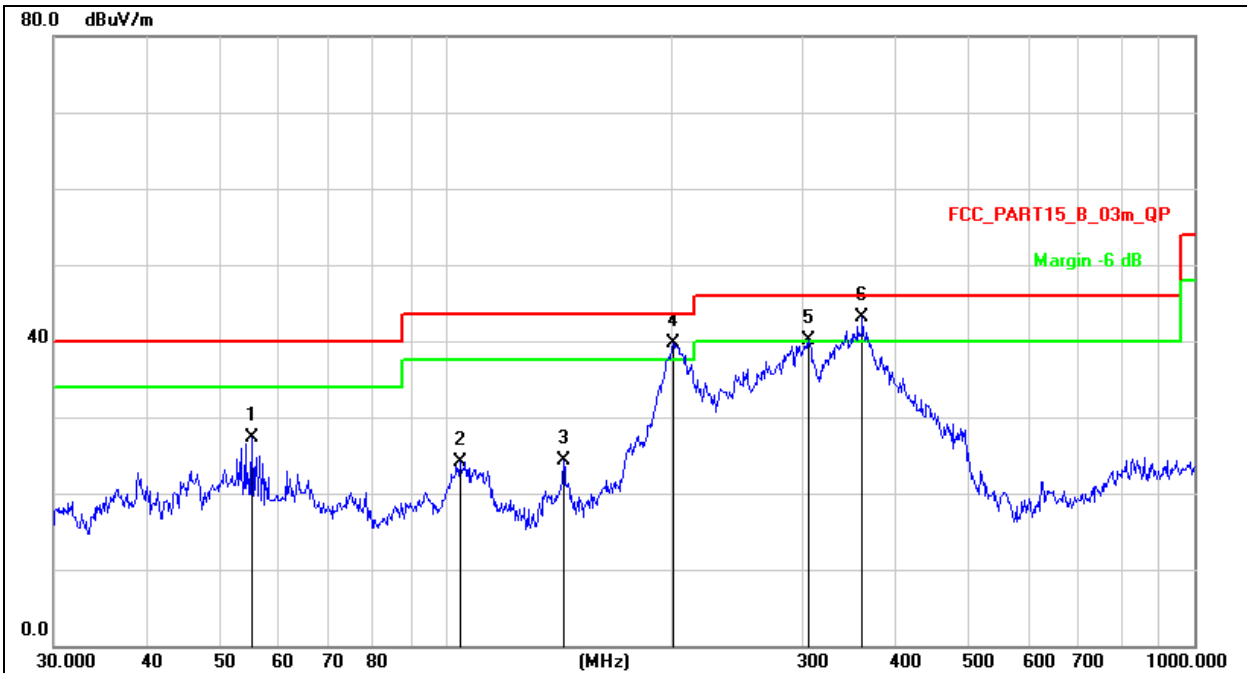
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 4 (the worst mode)	Polarization :	Coplanar



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.0114	69.74	-10.41	59.33	126.4	-67.14	peak
2		0.0631	64.50	-10.59	53.91	111.6	-57.69	peak
3	*	0.1214	90.16	-10.14	80.02	105.9	-25.90	peak
4		0.3220	78.58	-10.28	68.30	97.45	-29.15	peak
5		0.4277	54.85	-10.27	44.58	94.98	-50.40	peak
6		0.5819	53.18	-10.26	42.92	72.31	-29.39	peak
7		0.7128	53.87	-10.25	43.62	70.55	-26.93	peak
8		1.6046	45.91	-10.19	35.72	63.53	-27.81	peak
9		9.8739	45.72	-9.80	35.92	69.54	-33.62	peak

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 4 (the worst mode)	Polarization :	Horizontal

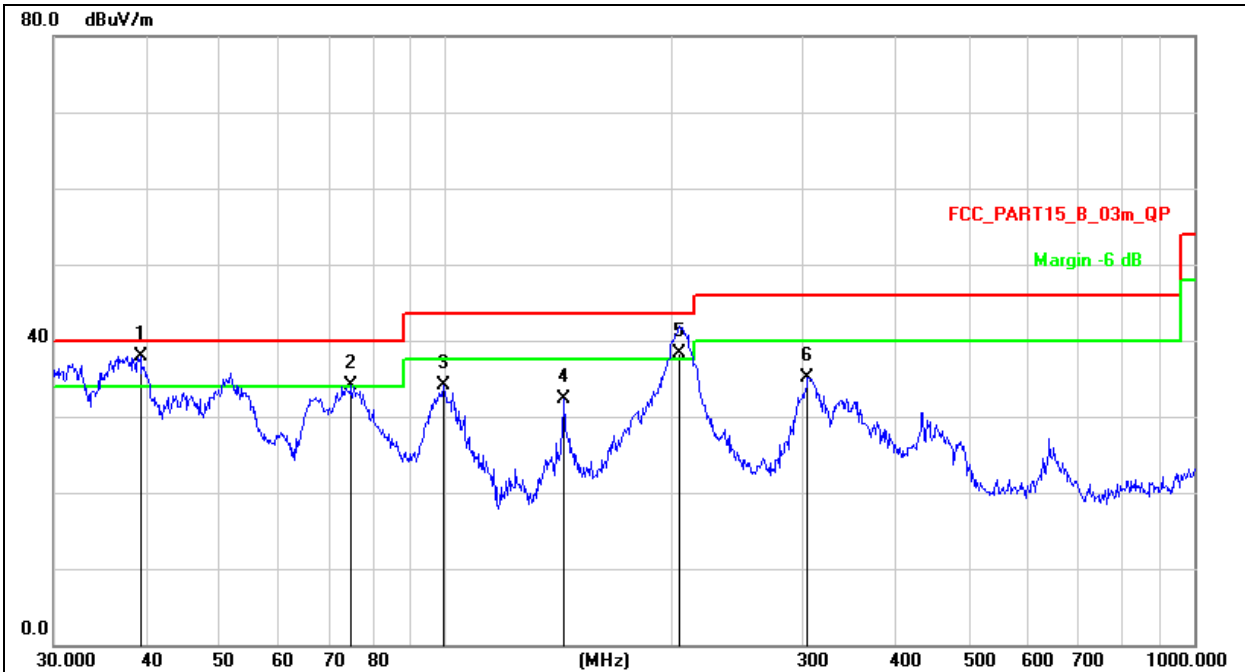


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		55.2207	43.76	-16.37	27.39	40.00	-12.61	QP
2		104.5361	42.18	-18.06	24.12	43.50	-19.38	QP
3		143.8295	45.01	-20.64	24.37	43.50	-19.13	QP
4	!	201.3930	56.94	-17.33	39.61	43.50	-3.89	QP
5	!	305.6800	54.41	-14.38	40.03	46.00	-5.97	QP
6	*	360.4476	55.76	-12.67	43.09	46.00	-2.91	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 4 (the worst mode)	Polarization :	Vertical


Remark:

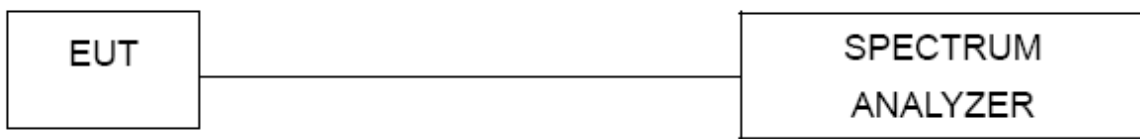
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over=Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	39.1616	54.78	-16.86	37.92	40.00	-2.08	QP
2	!	74.9191	54.92	-20.74	34.18	40.00	-5.82	QP
3		99.5281	51.88	-17.83	34.05	43.50	-9.45	QP
4		143.8295	52.95	-20.64	32.31	43.50	-11.19	QP
5	!	206.1150	55.44	-17.18	38.26	43.50	-5.24	QP
6		304.6099	49.50	-14.41	35.09	46.00	-10.91	QP

8. Bandwidth Test

1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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.

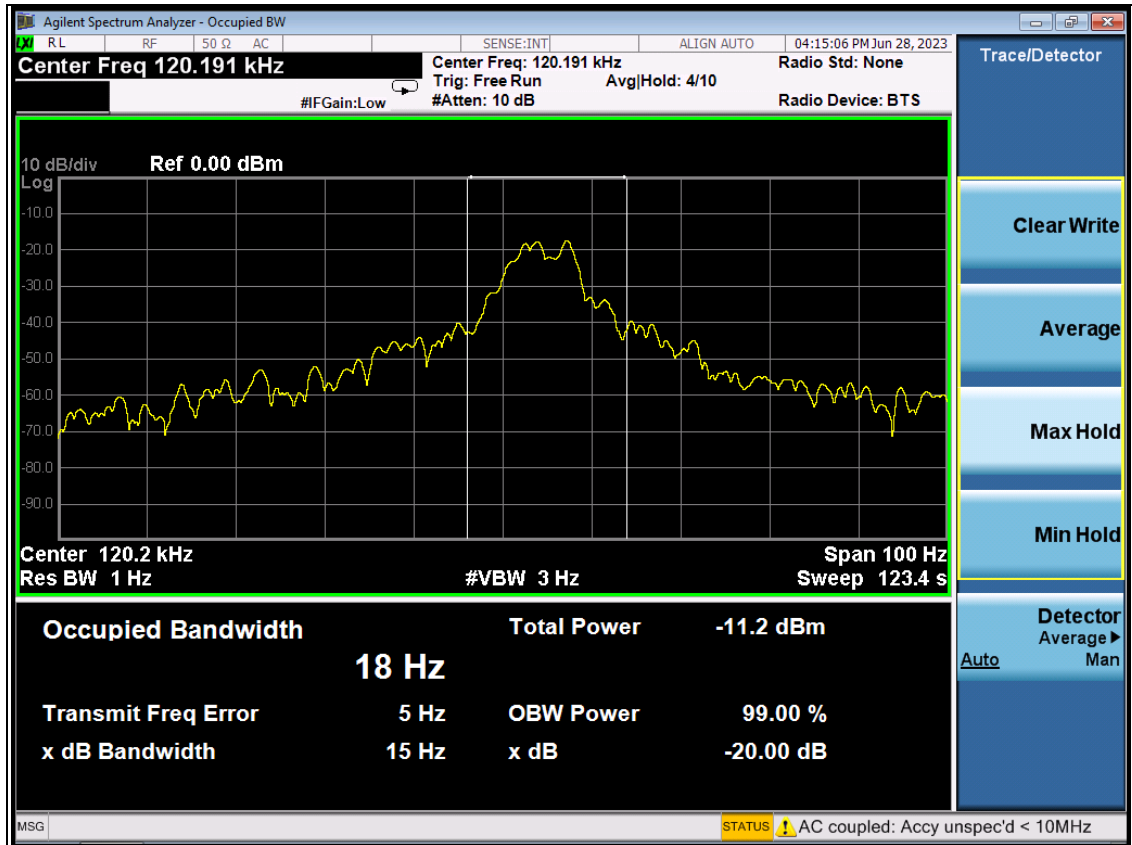
TEST SETUP



Earphone

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa		

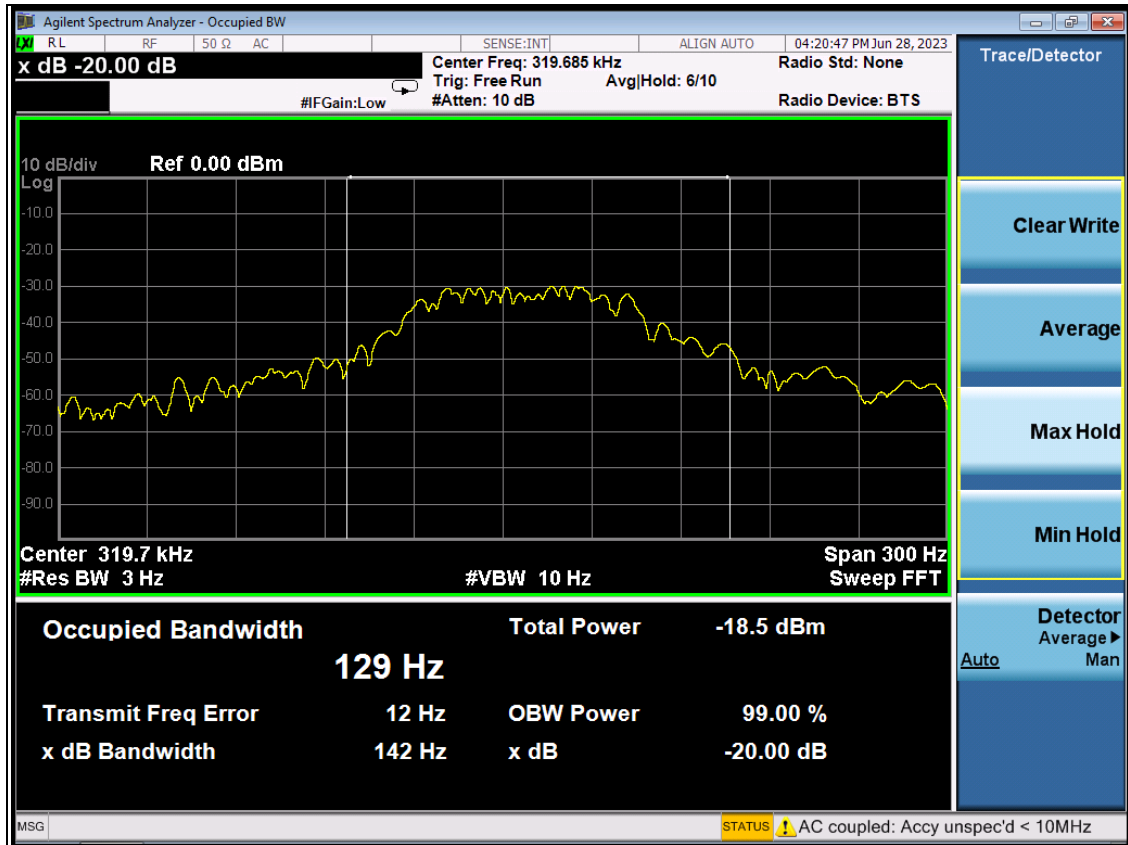
Frequency (KHz)	20dB bandwidth (Hz)	Result
120.2	15	Pass



Watch

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa		

Frequency (KHz)	20dB bandwidth (Hz)	Result
319.7	142	Pass



Phone

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa		

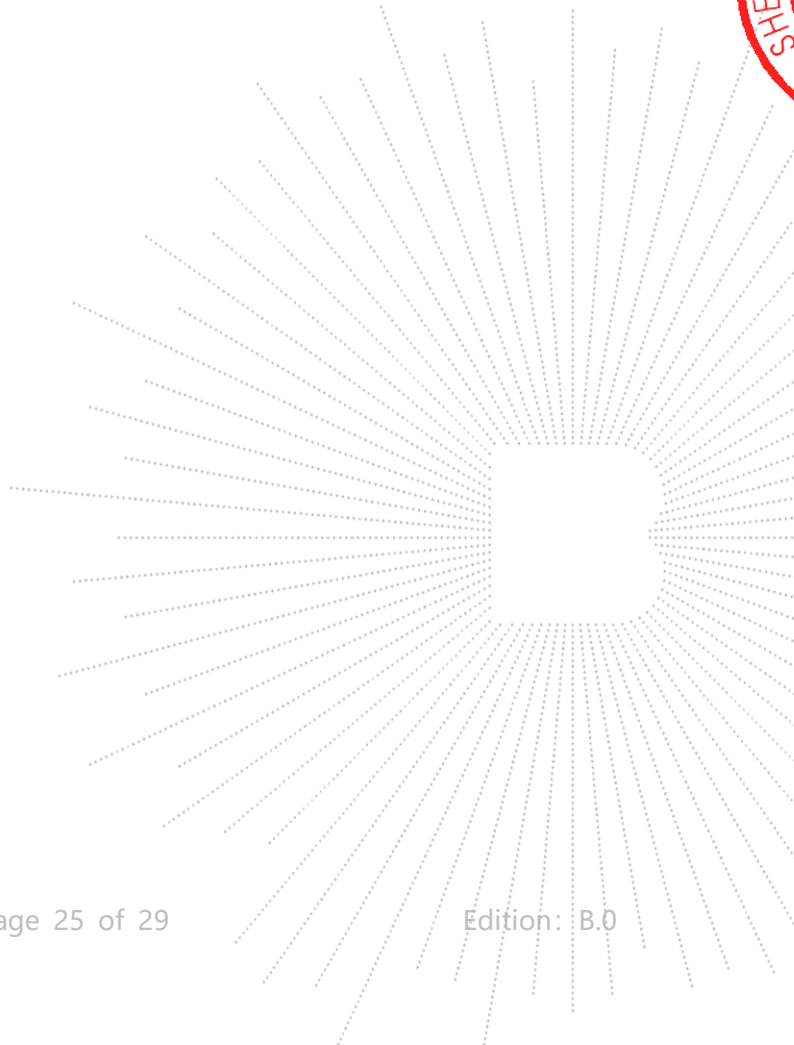
Frequency (KHz)	20dB bandwidth (Hz)	Result
120.5	17	Pass



CO., LTD

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.



10. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details



11. EUT Test Setup Photographs

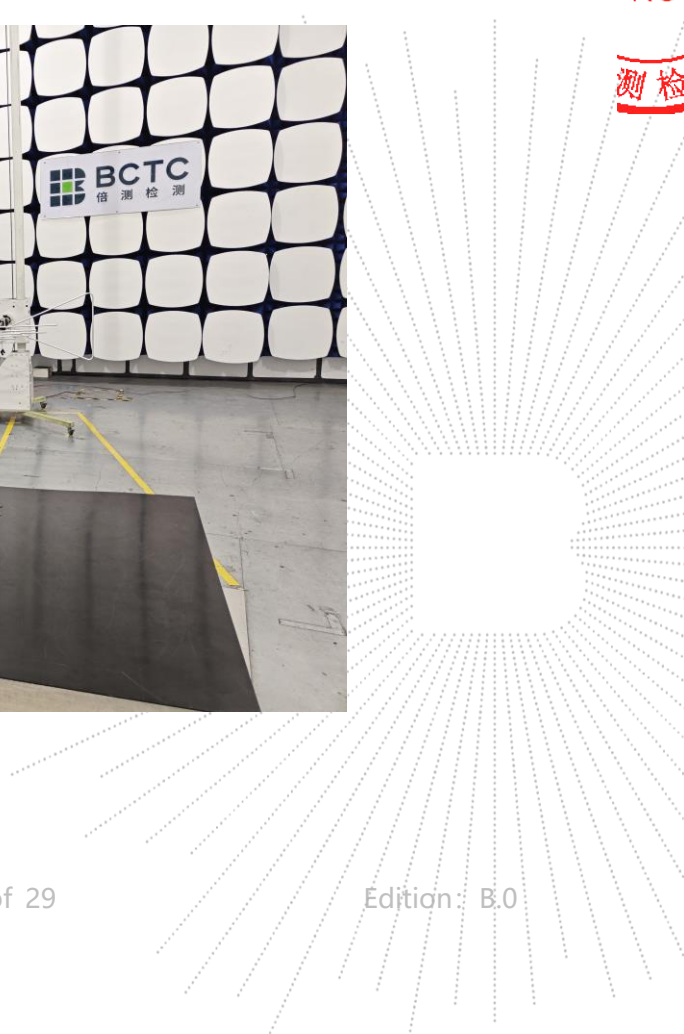
Conducted Emissions Photo

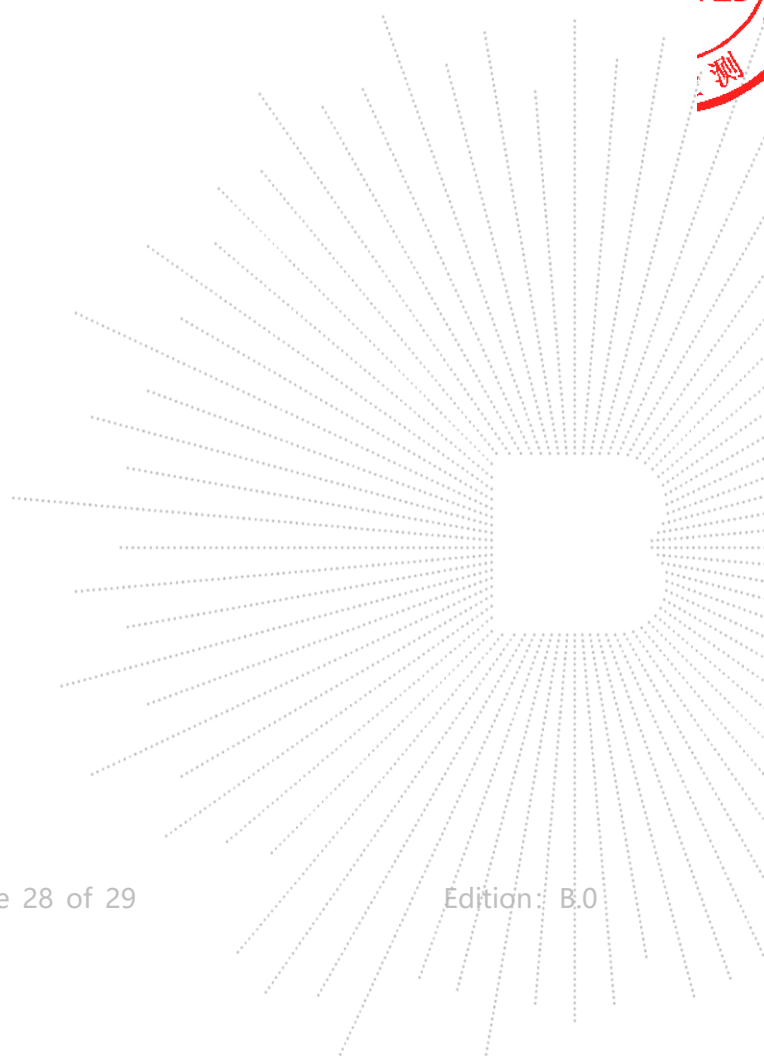
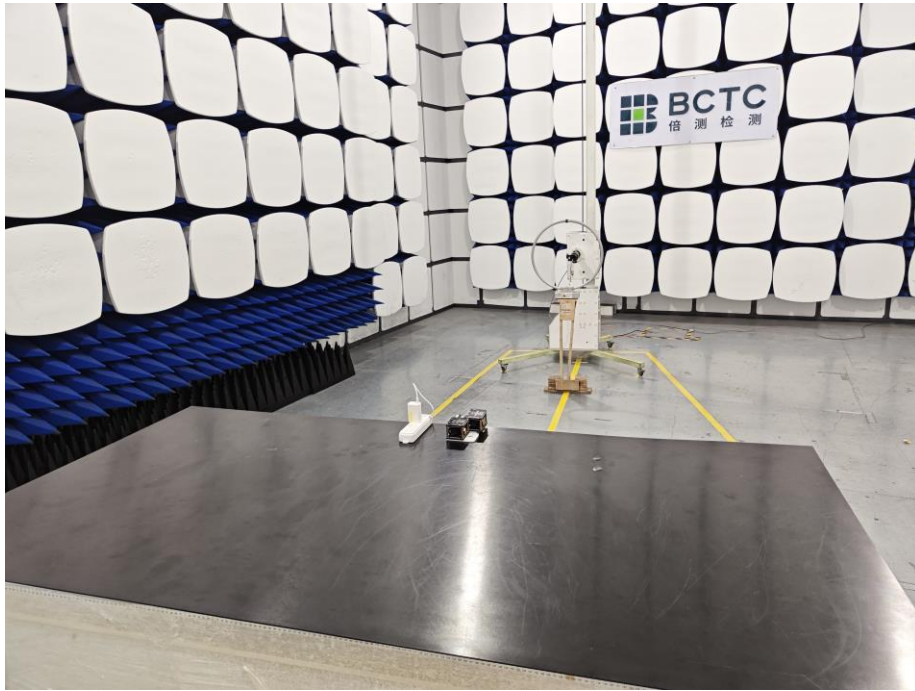


Radiated Measurement Photos



C T
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PRO
测检





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 the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** **END** *****

