

Page 1 of 25

FCC ID: 2A2QC-MWRA37V





立讯检测股份

FCC TEST REPORT

For

KADENA SPORTWEAR (SHENZHEN) CO., LTD

HEATED GEAR

Test Model: MWRA37V

至 立讯检测度份 LCS Testing Lab Additional Model No.: Please Refer to Page 6

Prepared for KADENA SPORTWEAR (SHENZHEN) CO., LTD

Address : 3/F, SanHuan Building, 172# Shashen Road, Yantian District,

Shenzhen, Guangdong, 518081 China

Shenzhen LCS Compliance Testing Laboratory Ltd. Prepared by

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Address MR LCS Testing Lab

Shajing Street, Baoan District, Shenzhen, 518000, China

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Mail webmaster@LCS-cert.com

Date of receipt of test sample March 15, 2022

Number of tested samples

Sample number 220221080A-1, 220221080A-2

Serial number Prototype

Date of Test______ March 15, 2022~ March 21, 2022

Date of Reports Testing Lab March 22, 2022





Shenzhen LCS Compliance Testing Laboratory Ltd.

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ECC ID: 2A2QC-MWRA37V

FCC TEST REPORT FCC CFR 47 PART 15 C(15.231)

Report Reference No.: LCS220221080AEA

Date of Issue.....: March 22, 2022

Testing Laboratory Name.......: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address.....: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park

Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,

Report No.: LCS220221080AEA

518000, China

Testing Location/ Procedure.....: Full application of Harmonised standards

Partial application of Harmonised standards of Contesting Lab

Other standard testing method

Applicant's Name.....: KADENA SPORTWEAR (SHENZHEN) CO., LTD

Address......: 3/F, SanHuan Building, 172# Shashen Road, Yantian District,

Shenzhen, Guangdong, 518081 China

Test Specification

Standard.....: FCC CFR 47 PART 15 Subpart C, ANSI C63.10-2013

Test Report Form No.....: LCSEMC-1.0

TRF Originator....... Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description.....: : HEATED GEAR

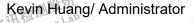
Test Model CS Testing : MWRA37V CS Testing Law

Ratings.....: DC 3V By CR2032 Lithium Cell

Result: Positive

Compiled by: Supervised by: Approved by:

Gavin Liang/ Manager





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FCC ID: 2A2QC-MWRA37V

Report No.: LCS220221080AEA

FCC -- TEST REPORT

EUT.....: HEATED GEAR

Test Model.....: MWRA37V

Applicant.....: : KADENA SPORTWEAR (SHENZHEN) CO., LTD

3/F, SanHuan Building, 172# Shashen Road, Yantian District,

Telephone..... : +86-755-25353680 ext. 8060

Fax..... : 0755-25358309

Manufacturer.....: FIELDSHEER APPAREL TECHNOLOGIES

Address...... : 2910 Norman Strasse Road, Ste 104 San Marcos, CA 92069

Telephone.....: +888-908-6024

Fax

Factory...... : Shenzhen Usmart Power Technology Co., Ltd.

Address...... : 602, Building B, Jie Shun Technology Center, Guan Sheng

Er Road, Guan Lan Town, Long Hua District, Shenzhen

Telephone.....: +86-755-21007494

Fax.....::

Test Result	Positive
77.17	and

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



立语检测股份 ting Lab









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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	March 22, 2022	Initial Issue	































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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : HEATED GEAR Test Model : MWRA37V

MWMS05, MWUS08, MWCB37V42221, MWLB37V12221, Additional Model No.

MWOB37V42221

Model Declaration : PCB board, structure and internal of these model(s) are the same, So

no additional models were tested

Hardware version : / Software version : /

: DC 3V By CR2032 Lithium Cell Power Supply

: 433.92MHz 433MHz Operation frequency

Modulation Type : ASK : 1 **Channel Number**

Antenna Type : Internal Antenna

Antenna Gain : 0dBi (Max)

1.2. Objective

The primary objective of the manufacturer is compliance with Subpart C of Part 15 of FCC Rules for the radiated and conducted emissions of intentional radiator. Certification of these devices is required as a prerequisite to marketing as defined in Part 2 the FCC Rules Certification is a procedure where the manufacturer or a contracted laboratory makes measurements and submits the test data and technical information to the FCC. The FCC issues a grant of equipment authorization upon successful completion of their review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured. Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

1.3. Environmental Conditions

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

- Temperature: 15-35°C

- Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

1.4. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate

1.5. External I/O Port

1/0	O Port Description	Quantity	Cable	
加股份				
I ab	上 语	2	日拉加加Lab	1.00
sting	I III resting L	卫	-sting -	



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1.6. EUT Operation

The EUT was placed in a RF test mode for testing of the transmitter and in normal mode of operation for testing the digital circuitry and receiver.

1.7. Antenna System

The directional gains of antenna used for transmitting is 0dBi, and EUT uses an external antenna which is permanently attached.

1.8. Description of Test Facility

Site Description EMC Lab. est

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

Statement of The Measurement Uncertainty

立讯检测股份 ISO Guide 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties associated with the a 05% confidence. a 95% confidence level and were calculated in accordance with NAMAS document NIS 81.

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
Radiation Uncertainty	. [30MHz~200MHz	±2.96dB	(1)
Nation oncertainty	-	200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GH	±4.20dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

















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Report No.: LCS220221080AEA



2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application. LCS Testing Lab LCS Testing Lab Testing Lab

2.2. EUT Exercise

The EUT was operated in the normal operating mode. The TX frequency that was fixed which was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.231 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in LCS Testing Lab Section 13.1.4.1 of ANSI C63.10 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane and for below 1GHz and 1.5m for above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10

2.4. Instrument Calibration

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

2.5. Test Mode

The EUT has been tested under engineering mode. The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis). The worst case of X axis was reported.

A new battery supplied DC 9.0V power to the EUT for testing.

***Note: Using a temporary antenna connector for the EUT when conducted measurements are performed.



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3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.







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4. SUMMARY OF TEST RESULTS

Rules	Description of test	Result
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band	Compliant
§15.209	General Requirement	Compliant
§15.231 (b)	Radiated Emissions	Compliant
§15.231 (c)	20dB Bandwidth Testing	Compliant
§15.231 (a)(1)	Deactivation Testing	Compliant
§15.231 Lab	Duty cycle Factor	Compliant
§15.207	Conducted Emissions	N/A

Note: All test modes were taken into consideration, but we only recorded the worst case in this report.

























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5. TEST ITEMS AND RESULTS

5.1. Transmitter Deactivation Time

FCC 15.231 (a)

5.1.1. Limit

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

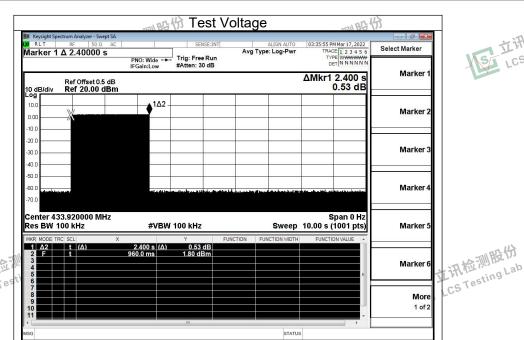
5.1.2. Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

5.1.3. Test Results

Temperature	23.5℃	Humidity	52.2%
Test Engineer	Nick Peng	Configurations	TX Mode

Frequency (MHz)	Activation Time (s)	Limit: not more than 5 seconds of being released (s)	Conclusion
433.92	2.400	5	PASS



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5.2. Transmitter Field Strength of Emissions

5.2.1. Limit

FCC §15.231 (b)

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field Strength of Fundamental (microvolt/meter)	Field Strength of spurious emissions (microvolt/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	1,250 to 3,370 Lab	125 to 375
174-260	3,750 ₅ 1estill	3755 CS Testills
260-470	3,750 to12, 500	375 to 1,250
Above 470	12,500	1,250

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

, ,				
MHz	MHz	MHz	GHz	A检测股份 STesting Lab
0.090-0.110	16.42-16.423	608-614	4.5-5.15	5 .
¹ 0.495-0.505	16.69475-16.68525	960-1240	5.35-5.46	
2.1735-2.1905	16.80425-16.80475	1300-1427	7.25-7.75	
4.125-4.128	25.525.67	1435-1626.5	8.025-8.5	
4.17725-4.17775	37.5-38.25	1645.5-1646.5	9.0-9.2	
4.20725-4.20775	73-74.6	1660-1710	9.3-9.5	
6.215-6.218	74.8-75.2	1718.8-1722.2	10.6-12.7	
6.26775-6.26825	108-121.94	2200-2300	13.25-13.4	
6.31175-6.31225	123-138	2310-2390	14.47-14.5	
8.291-8.294	149.9-150.05	2483.5-2500	15.35-16.2	
8.362-8.366	156.52475-156.52525	2655-2900	17.7-21.4	
8.37625-8.38675	156.7-156.9	3260-3267	22.01-23.12	
8.41425-8.41475	162.0125167.17	3 332-3339	23.6-24.0	
12.29-12.293	167.72-173.2	3345.8-3358	31.2-31.8	o c
12.51975-12.52025	240-285	esting 3600-4400	36.43-36.5	
12.57675-12.57725	322-335.4		.(2)	
13.36-13.41	399.9-410			

1. Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2. Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



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§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F (KHz)	300
0.490-1.705	24000 (KHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 72 MHz, 76 88 MHz, 174 216 MHz or 470 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

5.2.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Spectrum Parameter	Setting
Attenuation	Auto
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

5.2.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.



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Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.5 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- --- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



3) Sequence of testing 1 GHz to 12.75 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable. 立讯检测股份 LCSTesting Lab
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height is 1.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum found antenna polarisation and turntable position of the premeasurement the software maximizes the peaks by rotating the turntable position (0° to 360°). This measurement is repeated for different EUT-table positions (0° to 150° in 30°-steps). This procedure is repeated for both antenna polarisations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.







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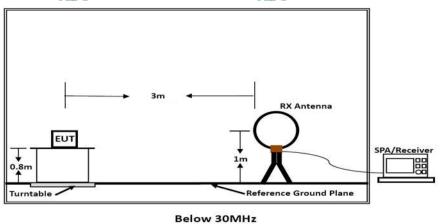
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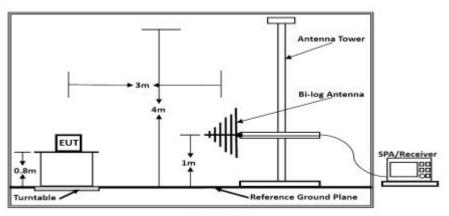
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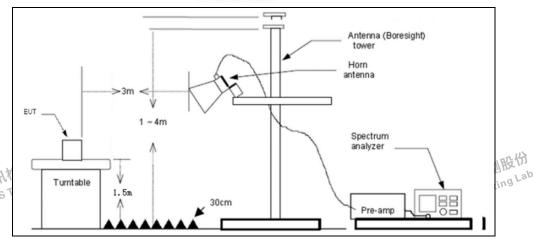
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Below 1GHz





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5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Results of Radiated Emissions (9 kHz~30MHz)

Temperature	23.5℃	Humidity	52.2%
Test Engineer	Nick Peng	Configurations	TX Mode

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
_	-	_	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

5.2.7. Results of Radiated Emissions (30MHz~1GHz)

Tempera			2	23.5	$^{\circ}\!$			Hum					52	.2%						
Test Eng	gineer		1	Vick	Pen	9		Conf	igur	atio	ons		TX	Мо	de					
70.0	dBuV/m					_												_		
60				\dashv	_						-		FCC Par	150	20.10	OOMU	_			
50			-	\dashv	+	\perp					+		Margin -	6-dB	50-10	JUMI	-	4		
40						F					+		4 X			5	_	4		
立讯检测 30 LCS Tes 20								1						7 17	,,		6	1	oak	检测股 Testing
LCS Tes 20					ılı.			, Martha	3	and or	da	an Market		And Walter	And Park	H-Mura		7	our.	Testills
10 0	Mux are rather than	Philippe and the Parish	machilde	Lings Callette	AND DARKE	Majarah	ador beneficial and an enterent	A Landon												
-10					+	_					+							-		
-20			_	-	-	\vdash				+	+						_	\dashv		
-30																				
30	0.000		60	0.00				(MHz)			3	00.00					1	000.0	000	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	162.6105	39.19	-19.63	19.56	43.50	-23.94	QP
2	215.2675	33.33	-16.99	16.34	43.50	-27.16	QP
3	325.5957	32.93	-14.21	18.72	46.00	-27.28	QP
4	434.0649	46.72	-13.81	32.91	46.00	-13.09	Peak
5	706.6997	43.06	-10.81	32.25	46.00	-13.75	QP
6	863.0561	38.81	-8.82	29.99	46.00	-16.01	Peak

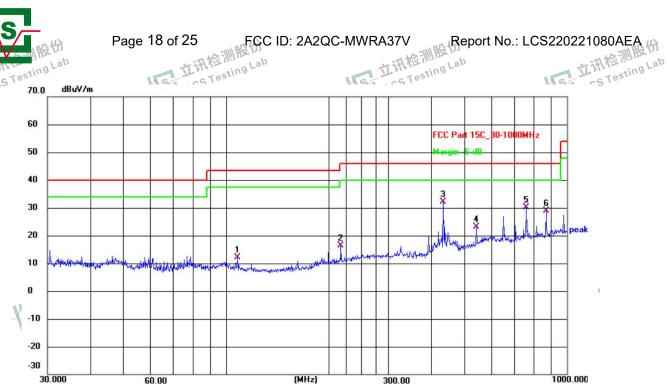
	Fundamental and Harmonics Result								
Frequency	Peak Level	AV Factor(dBμV/m)	Average Level	Limit(dBμV/m)	Limit(dBμV/m)	Conclusion			
(MHz)	(dBμV/m)	(see Section 5.4)	(dB _µ V/m)	(average)	(Peak)	Conclusion			
434.06	32.91	-10.22	22.69	80.82	100.82	PASS			
863.05	29.99	-10.22	19.77	60.82	80.82	PASS			



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	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Г	1	108.2664	31.05	-18.90	12.15	43.50	-31.35	QP
	2	217.5440	33.31	-16.94	16.37	46.00	-29.63	QP
	3	434.0649	46.68	-14.44	32.24	46.00	-13.76	Peak
е	4	543.2740	35.07	-12.04	23.03	46.00	-22.97	QP
	5	760.7033	40.24	-10.14	30.10	46.00	-15.90	QP
Γ	6	869.1300	37.65	-8.75	28.90	46.00	-17.10	Peak

	Fundamental and Harmonics Result								
	Frequency Peak Level AV Factor(dBμV/m) Average Level Limit(dBμV/m) Limit(dBμV/m) Conclusion Conclusion								
	(ασμν/ιιι)		(ασμν/π)	\					
434.06	32.24	-10.22	22.02	80.82	100.82	PASS			
869.13	28.90	-10.22	18.68	60.82	80.82	PASS			

Note:

- All reading are Quasi-peak values.
 Measured = Reading + Antenna Factor + Cable Loss
 The emission that are 20dB below the official limit are not reported
- 4. * means fundamental frequency
- 5. ** means harmonic frequency
- 6. AV values = Peak values + Duty cycle factor





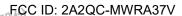


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5.2.8. Results of Radiated Emissions (Above 1GHz)

Temperature	23.5℃	Humidity	52.2%
Test Engineer	Nick Peng	Configurations	TX Mode

Peak Value:				
Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over limit (dB)	Polarization
1301.77	46.06	74.00	-27.94	Horizontal
1737.15	37.65	74.00	-36.35	Horizontal
2166.97	41.37	74.00	-32.63	Vertical
1301.72	45.41	74.00	-28.59	Vertical

Average Va	Average Value:									
Frequency (MHz)	Peak Level (dBuV/m)	average factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over limit (dB)	Polarization				
1301.77	46.06	-10.22	35.84	54.00	-18.16	Horizontal				
1737.15	37.65	-10.22	27.43	54.00	-26.57	Horizontal				
2166.97	41.37	-10.22	31.15	54.00	-22.85	Vertical				
1301.72	45.41	-10.22	35.19	54.00	-18.81	Vertical				

- 1. Measuring frequencies from 9k~10th harmonic (ex. 5GHz), No emission found between lowest internal used/generated frequency to 30MHz.
- 2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 5GHz) were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
 - 4. Average value=peak reading level + average factor.

















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5.3. 20dB Bandwidth Emissions

FCC 15.231 (c)

5.3.1. Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

5.3.2. Test Procedure

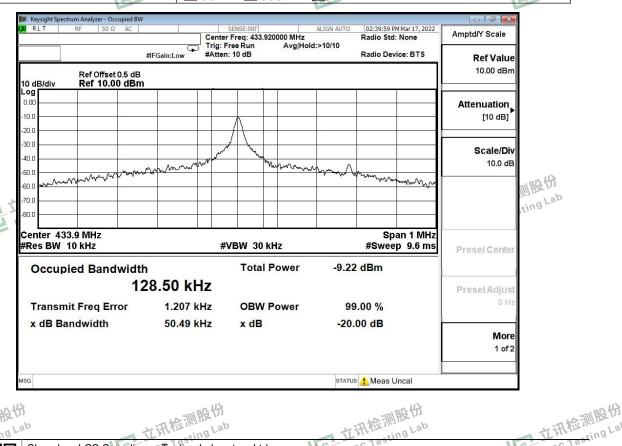
With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

5.3.3. Test Data

Temperature	23.5℃	Humidity	52.2%
Test Engineer	Nick Peng	Configurations	TX Mode

	Center Frequency of operation MHz	Maximum allowed bandwidth kHz	Measured 20dB bandwidth kHz	Result
	433.92	1084.8	50.49	PASS
以於	Maximum allowed bandwidth:	0.25% of the centre	e operating frequency operating frequency	ווני
,51	RBW: VBW: VBW:	10kHz ☐ 100kHz ☐ 30kHz ☐ 300kHz	⊠other kHz ⊠other kHz	1 LCS

esting Lab





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5.4.1. Limit

No dedicated limit specified in the Rules.

5.4.2. Test Procedure

- 5.4.2.1. Place the EUT on the table and set it in transmitting mode.
- 5.4.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 5.4.2.3. Set centre frequency of spectrum analyzer=operating frequency.
- 5.4.2.4. Set the spectrum analyzer as RBW=1 MHz, VBW=1 MHz, Span=0Hz, Adjust Sweep=Auto.
- 5.4.2.5. Repeat above procedures until all frequency measured was complete.

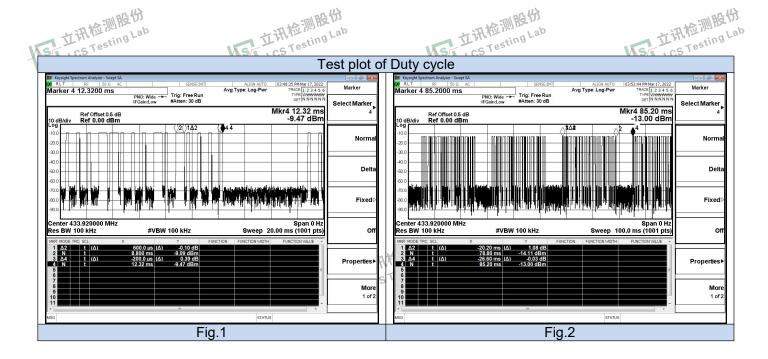
5.4.3. Test Data

Ton = 0.60*8+0.20*17(ms)=8.20(ms)

Tp = 26.60(ms)

The duty cycle=8.20/26.60=30.83%

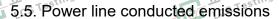
Average Correction Factory = 20log (Ton/Tp) = 20log (0.3083) = -10.22dB





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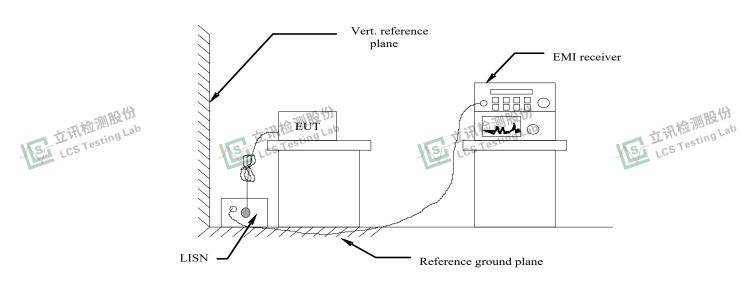


5.5.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range	Limits	(dBµV)
Frequency Range (MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
15 CS Te 0.50 to 5	LC56estille	463 LCS Testing
5 to 30	60	50

5.5.2 Block Diagram of Test Setup



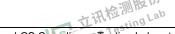
5.5.3 Test Results

Not applicable. LCS Testing Lab



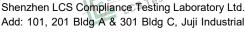














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5.6. Antenna Requirement

FCC 15.203

5.6.1. Standard Applicable

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.

This EUT uses an integral antenna which is permanently attached.

5.6.2. Result 位测度份

Compliant.





The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.



























6. LIST OF MEASURING EQUIPMENTS

Item Equipment Manufacturer Model No. Serial No. Cal Date Due Date 1 Power Meter R&S NRVS 100444 2021-06-21 2022-06-20 2 Power Sensor R&S NRV-Z81 100458 2021-06-21 2022-06-20 3 Power Sensor R&S NRV-Z32 10057 2021-06-21 2022-06-20 4 Test Software Tonscend J5120-2 / N/A 2021-11-16 2022-11-15 6 MXA Signal Analyzer Agilent N9020A MY50510140 2021-11-25 2022-11-25 7 DC Power Supply Agilent E3642A N/A 2021-11-25 2022-11-25 8 EMI-Test Software AUDIX ASC-3M 03CH03-HY 2021-06-21 2022-06-20 10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-06-21 2022-06-20 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>							
2 Power Sensor R&S NRV-Z81 100458 2021-06-21 2022-06-20 3 Power Sensor R&S NRV-Z32 10057 2021-06-21 2022-06-20 4 Test Software Tonscend JS1120-2 / N/A N/A 5 RF Control Unit Tonscend JS0806-2 N/A 2021-11-16 2022-11-15 6 MXA Signal Analyzer Aglient R862A MY50510140 2021-11-16 2022-11-15 7 DC Power Supply Aglient E3642A N/A 2021-11-25 2022-11-24 8 EMI-Test Software AUDIX E3 / N/A 2021-16-21 2022-06-20 10 Positioning Controller MF MF7802 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-25 2024-07-24 13	Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
3 Power Sensor R&S NRV-Z32 10057 2021-06-21 2022-06-20 4 Test Software Tonscend J\$1120-2 / N/A N/A 5 RF Control Unit Tonscend J\$0806-2 N/A 2021-11-16 2022-11-15 6 MXA Signal Analyzer Agilent N9020A MY50510140 2021-11-16 2022-11-15 7 DC Power Supply Agilent E3642A N/A 2021-11-25 2022-11-24 8 EMI Test Software AUDIX E3 / N/A 2021-10-25 2022-06-20 10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30	1	Power Meter	R&S	NRVS	100444	2021-06-21	2022-06-20
4 Test Software Tonscend JS1120-2 / N/A N/A 5 RF Control Unit Tonscend JS0806-2 N/A 2021-11-16 2022-11-15 6 MXA Signal Analyzer Agilent N9020A MY50510140 2021-11-16 2022-11-15 7 DC Power Supply Agilent E3642A N/A 2021-11-25 2022-11-24 8 EMI-Test Software AUDIX E3 / N/A 2021-11-25 2022-11-24 9 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2021-06-21 2022-06-20 10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30	2	Power Sensor	R&S	NRV-Z81	100458	2021-06-21	2022-06-20
5 RF Control Unit Tonscend JS0806-2 N/A 2021-11-16 2022-11-15 6 MXA Signal Analyzer Agilent N9020A MY50510140 2021-11-16 2022-11-15 7 DC Power Supply Agilent E3642A N/A 2021-11-25 2022-11-24 8 EML Test Software AUDIX E3 / N/A N/A 9 3m Semi Anachoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2021-06-21 2022-06-20 10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30 14 Broadband Preamplifier SCHWARZBECK BBV9745 9719-025 2021-06-21 2022-06-20	3	Power Sensor	R&S	NRV-Z32	10057	2021-06-21	2022-06-20
6 MXA Signal Analyzer Agilent N9020A MY50510140 2021-11-16 2022-11-15 7 DC Power Supply Agilent E3642A N/A 2021-11-25 2022-11-24 8 EMI Test Software AUDIX E3 / N/A N/A 9 3m Semi Anethoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2021-06-21 2022-06-20 10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 000005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30 14 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2020-09-20 2023-09-19 15 Broadband Preamplifier SCHWARZBECK BBV9745 9719-025 2021-06-21 2022	4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
7 DC Power Supply Agilent E3642A N/A 2021-11-25 2022-11-24 8 EMI Test Software AUDIX E3 / N/A N/A 9 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2021-06-21 2022-06-20 10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30 14 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2020-09-20 2023-09-19 15 Broadband Preamplifier SCHWARZBECK BBV9745 9719-025 2021-06-21 2022-06-20 16 EMI Test Receiver R&S ESR 7 101181 2021-06-21 2022-06-20	5	RF Control Unit	Tonscend	JS0806-2	N/A	2021-11-16	2022-11-15
8 EMI-Test Softwage AUDIX F8 / N/A N/A 9 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2021-06-21 2022-06-20 10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30 14 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2020-09-20 2023-09-19 15 Broadband Preamplifier SCHWARZBECK BBV9745 9719-025 2021-06-21 2022-06-20 16 EMI Test Receiver R&S ESR 7 101181 2021-06-21 2022-06-20 17 RS SPECTRUM ANALYZER R&S FSP40 100503 2021-11-16 2022-16-20<	6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2021-11-16	2022-11-15
9 3m Semi Anechoic Chamber SIDT FRANKONIA SAC-3M 03CH03-HY 2021-06-21 2022-06-20 10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30 14 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2020-09-20 2023-09-19 15 Broadband Preamplifier SCHWARZBECK BBV9745 9719-025 2021-06-21 2022-06-20 16 EMI Test Receiver R&S ESR 7 101181 2021-06-21 2022-06-20 17 RS SPECTRUM ANALYZER R&S FSP40 100503 2021-11-16 2022-11-15 18 Broadband Preamplifier / BP-01M18G P190501 2021-06-21 2022-06-20 19 6dB Attenuator / BP-01M18G P190501 2021-06-21 2022-06-20 20 3dB Attenuator / BP-01M18G P190501 2021-06-21 2022-06-20 20 3dB Attenuator / BP-01M18G P190501 2021-06-21 2022-06-20 20 Artificial Mains R&S ESPI 101840 2021-06-21 2022-06-20 20 Artificial Mains R&S ENV216 101288 2021-06-21 2022-06-20 202-06-20 203 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 203 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 203 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 203 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 203 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 203 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 203 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 203 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 202 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 202 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 202 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2021-06-21 2022-06-20 202-06-20 202 10dB Attenuato	7	DC Power Supply	Agilent	E3642A	N/A	2021-11-25	2022-11-24
10 Positioning Controller MF MF7082 MF78020803 2021-06-21 2022-06-20 11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30 14 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2020-09-20 2023-09-19 15 Broadband Preamplifier SCHWARZBECK BBV9745 9719-025 2021-06-21 2022-06-20 16 EMI Test Receiver R&S ESR 7 101181 2021-06-21 2022-06-20 17 RS SPECTRUM ANALYZER R&S FSP40 100503 2021-11-16 2022-11-15 18 Broadband Preamplifier / BP-01M18G P190501 2021-06-21 2022-06-20 19 6dB Attenuator 100W/6dB 1172040 2021-06-21 2022-06-20 <td>8</td> <td>EMI Test Software</td> <td>AUDIX</td> <td>·开始测数 lab</td> <td>/</td> <td>N/A</td> <td>N/A</td>	8	EMI Test Software	AUDIX	·开始测数 lab	/	N/A	N/A
11 Active Loop Antenna SCHWARZBECK FMZB 1519B 00005 2021-07-25 2024-07-24 12 By-log Antenna SCHWARZBECK VULB9163 9163-470 2021-07-25 2024-07-24 13 Horn Antenna SCHWARZBECK BBHA 9120D 9120D-1925 2021-07-01 2024-06-30 14 Broadband Horn Antenna SCHWARZBECK BBHA 9170 791 2020-09-20 2023-09-19 15 Broadband Preamplifier SCHWARZBECK BBV9745 9719-025 2021-06-21 2022-06-20 16 EMI Test Receiver R&S ESR 7 101181 2021-06-21 2022-06-20 17 RS SPECTRUM ANALYZER R&S FSP40 100503 2021-11-16 2022-11-15 18 Broadband Preamplifier / BP-01M18G P190501 2021-06-21 2022-06-20 19 6dB Attenuator 2N-3dB 2021-06-21 2022-06-20 20 3dB Attenuator 2N-3dB 2021-11-16 2022-06-20 21 EMI Test Receiver R&S<	9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-21	2022-06-20
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	22	Artificial Mains	R&S	ENV216	101288	2021-06-21	2022-06-20
24 EMI Test Software Farad EZ / N/A N/A	23	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21	2022-06-20
	24	EMI Test Software	Farad	EZ	/	N/A	N/A

















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Report No.: LCS220221080AEA

Please refer to separated files for External Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT



Please refer to separated files for Internal Photos of the EUT.















