

FCC TEST REPORT

For

Zhuhai Initial Entropy Energy Co., Ltd.

Portable Power Station

Test Model: Singo2000Plus

国立派检测服务 Additional Model No.: Singo2400, PPS2400, PB2400

Prepared for	:	Zhuhai Initial Entropy Energy Co., Ltd.
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Prepared by	. 43	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	October 31, 2024
Number of tested samples	:	2
Sample No.	:	A241028036-1, A241028036-2
Serial number	:	A241028036-1, A241028036-2 Prototype
Date of Test	:	October 31, 2024 ~ January 24, 2025
Date of Report	:	January 24, 2025



	FCC TEST REPORT FCC CFR 47 PART 15 C(15.247) MBL (f)	
Report Reference No	:: LCSA10284211EA	LCS Test	
Date of Issue	: January 24, 2025		
Testing Laboratory Name	: Shenzhen LCS Compliance Te	sting Laboratory Ltd.	
Address	: 101, 201 Bldg A & 301 Bldg C, J Shajing Street, Baoan District, Sl	•	
Testing Location/ Procedure	: Full application of Harmonised st		
	Partial application of Harmonised Other standard testing method □		
Applicant's Name	: Zhuhai Initial Entropy Energy (
NST CS TOSU	: 8th floor, A4 Harbour 7, Jintang F City, Guangdong Province, China	Road, High-tech district, Zhuhai	
Test Specification			
Standard	FCC CFR 47 PART 15 C(15.247	<i>(</i>)	
Test Report Form No	: TRF-4-E-145 A/0		
TRF Originator	: Shenzhen LCS Compliance Test	ting Laboratory Ltd.	
Master TRF	: Dated 2011-03		
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EUT Description	: Portable Power Station		
Trade Mark	: N/A		
Test Model	: Singo2000Plus		
Ratings	Please Refer to Page 6		
Result	: Positive	LCSTesting -	

Diamond Lu/ Administrator

Jack Liu/ Technique principal

Gavin Liang/ Manager







Test Report No. : L0	SA10284211EA	January 24, 2025 Date of issue
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Test Model	: Singo200)0Plus	
EUT	: Portable	Power Station	
Applicant	: Zhuhai li	nitial Entropy Energy C	o., Ltd.
Address		A4 Harbour 7, Jintang R ity, Guangdong Province	•
Telephone	: /		
Fax	: /		
Manufacturer	: Zhuhai lı	nitial Entropy Energy C	So., Ltd.
Address		A4 Harbour 7, Jintang R ity, Guangdong Province	
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Factory	: Zhuhai li	nitial Entropy Energy C	So., Ltd.
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LES TOST	1ST	LCS Test	LEST LOSTOSH
Test Result		Po	ositive

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.





Report Version	Issue Date	Revision Content	Revised By
000	January 24, 2025	Initial Issue	





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1. GENERAL INFORMATION

1.1. Description of De	vice (EUT)		
EUT	: Portable Power Station		
Test Model	: Singo2000Plus		
Additional Model No.	: Singo2400, PPS2400, PI	32400	
Model Declaration	: PCB board, structure and additional models were to	l internal of these model(s) are ested	the same, So no
Ratings	: Capacity: 1920Wh, 48V, Max Total Output Power: USB-A Output(x1): 5V	2780W	
	USB-A QC Output(x2): 5		
	, .	iV/9V/12V/15V) 3A,20V 5A, 100W each port:Total: 200W	
	AC Output(x4): 120Vac/6	0Hz,Total: 2400W	
	DC Output: 13.2V == 10A, DC Power s AC Charge Input: 85~135	socket/5525 (x2)Total: 132W 5Vac_60Hz_1800Wmax	
	PV Charge Input: 12~60		
	DC Charge Input: 12Vdc	/8A, 24Vdc/10A, 240Wmax	
Hardware Version	: FCM100D		
Software Version	: FCM100DAAR12A04_Q	THQL_MCU_GENERIC_PROT	_V2.0.1_JP
Bluetooth	:		
Frequency Range	: 2402MHz~2480MHz		
Channel Number	: 40 channels for Bluetooth		
Channel Spacing	: 2MHz for Bluetooth V5.2		
Modulation Type Bluetooth Version	: GFSK for Bluetooth V5.2 : V5.2	(510)	
Antenna Description	: PCB Antenna, -1.0dBi(M	ax.)	
WIFI(2.4G Band)		ast ^{inis}	L resting
Frequency Range	: 2412MHz~2462MHz		
Channel Number	: 11 Channels for 20MHz b	oandwidth (2412~2462MHz)	
Channel Spacing	: 5MHz		
Modulation Type	: IEEE 802.11b: DSSS (CO	,	
	•	AQAM, 16QAM, QPSK, BPSK)	
Antonno Description	•	AQAM, 16QAM, QPSK, BPSK)	
Antenna Description	: PCB Antenna -1.0dBi(Ma	1.)	





1.2. Support equipment List

I II	Manufacturer	Description	Model	Serial Number	Certificate
Per re			- Tool I'rea		100

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	3	N/A
Type-C Port	2	N/A
DC Port	1	N/A
AC Port	4 Anna Lab	N/A
SOLAR/CAR INPUT Port	12 LA 100	N/A
CHARGE Port	1	N/A
OVERLOAD PROTECTION Port	1	N/A

1.4. Description of Test Facility

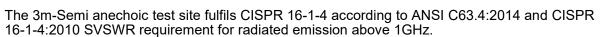
NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.



1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.







1.6. Measurement Uncertainty

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	THE PER LA		
Test Item	Frequency Range	Uncertainty	Note
(Ear	9KHz~30MHz	±3.10dB	(1)
	30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	: 200MHz~1000MHz	±3.10dB	(1)
	1GHz~26.5GHz	±3.80dB	(1)
	26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	: 150kHz~30MHz	±1.63dB	(1)
Power disturbance	: 30MHz~300MHz	±1.60dB	(1)
Output power	: 1GHz-40GHz	±0.57dB	(1)
Power Spectral Density	: 1GHz-40GHz	±1.2dB	(1)
Occupied Channel Bandwidth	: 1GHz-40GHz	±5%	(1)
Conducted RF Spurious Emission	: 9kHz-40GHz	±1.80dB	(1)
Emissions in Restricted Bands	: 1GHz-40GHz	±2.47dB	(1)

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

1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in Y position.

AC conducted emission test at AC 120V/60Hz mode

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be BT LE mode (1Mbps-High Channel).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was determined to be BT LE mode (1Mbps-High Channel).

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows: BT LE: 1 Mbps, GFSK.

Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)	
	0	2402	20	2442	
	1	2404			
2402~2480MHz	2	2406			
2402~240010102			37	2476	
			38	2478	
	19	2440	39	2480	





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.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 15.247 Meas Guidance v05r02 is required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 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 Section 6.2.1 of ANSI C63.10-2013 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 below 1GHz and 1.5 m above gro und plane 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 6.3 of ANSI C63.10-2013.

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A241028036-1)	Engineer sample – continuous transmit
Sample 2(A241028036-2)	Normal sample – Intermittent transmit



Report No.: LCSA10284211EA

3. SYSTEM TEST CONFIGURATION

3.1. Justification

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

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by application.

3.3. Special Accessories

N/A.

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

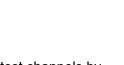
Please refer to the test setup photo.















4. SUMMARY OF TEST RESULTS

STOSTING T	IST LOS Testino	St LCS Testin	ĝ	IST LOS Testin	
	Applied Standard: FCC Part	15 Subpart 0)		
FCC Rules	C Rules Description of Test		Result	Remark	
§15.247(a)(2)	6dB Bandwidth	Sample 1	Compliant	Appendix A.1	
§15.247(b)	Maximum peak conducted output power	Sample 1	Compliant	Appendix A.2	
§15.247(e)	Power Spectral Density	Sample 1	Compliant	Appendix A.3	
§15.247(d)	Band edge measurements and Conducted Spurious Emissions	Sample 1	Compliant	Appendix A.4 Appendix A.5	
151 JCS Testino	On Time and Duty Cycle	Sample 1	NE	Only reported; Appendix A.6	
15.209, §15.247(d)	Radiated Spurious Emissions	Sample 1 Sample 2	Compliant	Note 1	
§15.205	Emissions at Restricted Band	Sample 1	Compliant	Appendix A.7	
§15.207(a)	Conducted Emissions	Sample 2	Compliant	Note 1	
§15.203	Antenna Requirements	Sample 1	Compliant	Note 1	
§15.247(i)§1.1310 §15.247(i)§2.1091	RF Exposure	N/A	Compliant	Note 2	
s Testing L	I Startesting	I I Ho Testin	Q	NSA LOS Testi	

Remark:

1. Note 1 – Test results inside test report;

2. Note 2 – Test results in other test report (RF Exposure Evaluation);



5. TEST RESULT

- 5.1. 6 dB Spectrum Bandwidth Measurement
- 5.1.1. Standard Applicable

According to §15.247(a) (2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting	
Attenuation	Auto	
RBW	100KHz	Till Maring L
VBW	≥3*RBW	LCSTOST
Span Frequency	> RBW	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

5.1.3. Test Procedures

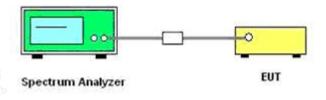
1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.

2. Set RBW/VBW = 100 KHz/ 300KHz (for 6dB bandwidth measurement)

Set RBW = 1%~5% OBW; VBW≥3*RBW (for occupied bandwidth measurement).

3. Measured the 6dB bandwidth and 99% occupied bandwidth by related function of the spectrum analyzer.

5.1.4. Test Setup Layout





5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Test Result of 6dB Spectrum Bandwidth

PASS

Please refer to Appendix A.1

Remark: Test results including cable loss.



5.2. Maximum Peak Conducted Output Power Measurement

5.2.1. Standard Applicable

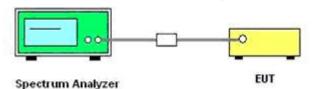
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

5.2.2. Test Procedures

The transmitter output (antenna port) was connected to the spectrum analyzer. According to KDB558074 D01 15.247 Meas Guidance v05r02 Section 9.1 Maximum peak conducted output power 9.1.1.

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW \geq 3 × RBW.
- c) Set span ≥ 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.
- 5.2.3. Test Setup Layout



5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.5. Test Result of Maximum Conducted Output Power

PASS

Please refer to Appendix A.2

Remark: 1)Test results including cable loss. 2) Average power only for report.



5.3. Power Spectral Density Measurement

5.3.1. Standard Applicable

According to §15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.3.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

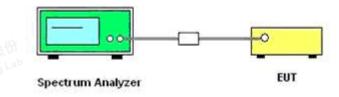
5.3.3. Test Procedures

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.

- 3. Set the RBW = 3 kHz.
- 4. Set the VBW ≥ 3*RBW
- 5. Set the span to 1.5 times the DTS channel bandwidth.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum power level.
- 11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 12. The resulting peak PSD level shall not be greater than 8 dBm in any 3KHz band.

5.3.4. Test Setup Layout





5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.6. Test Result of Power Spectral Density

PASS

Please refer to Appendix A.3

Remark: Test results including cable loss.

5.4. Radiated Emissions Measurement



5.4.1. Standard Applicable

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	
 0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	
6.31175-6.31225	123-138	2200-2300	14.47-14.5	
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8	
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
12.57675-12.57725	322-335.4	3600-4400	(\2\)	
13.36-13.41				

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

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

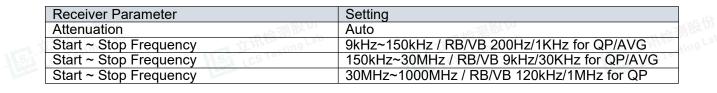
5.4.2. Measuring Instruments and Setting

Please refer to equipment 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	10 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average







5.4.3. 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.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.0 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 ($\pm 45^{\circ}$) 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 18 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.
- --- 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 scan range is 1 meter to 2.5 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 antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average 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.



4) Sequence of testing above 18 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.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

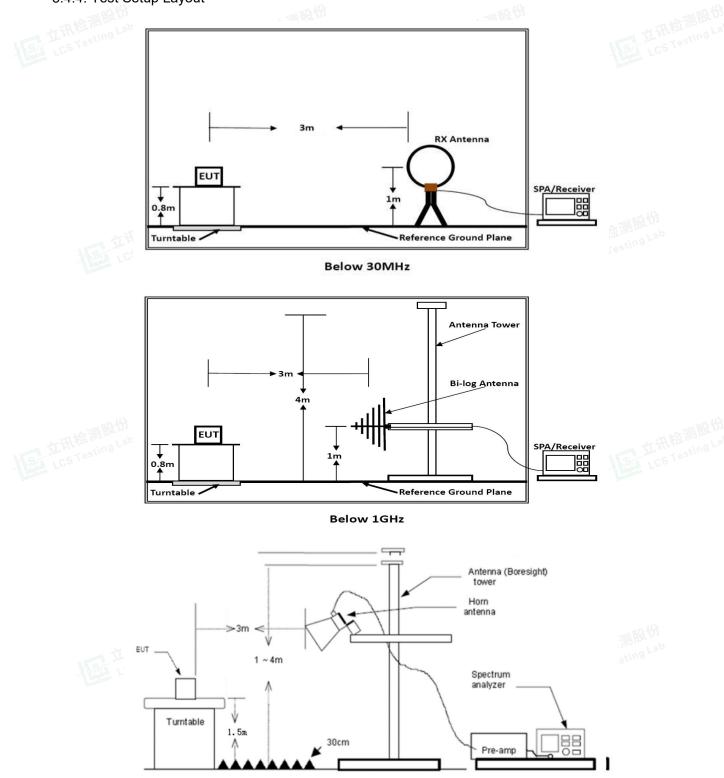
Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, 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.



5.4.4. Test Setup Layout



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.



5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	- 40
4.7. Results of Radiated Emissions (9 KHz~30MHz)	制度DD ting Lab

5.4.7. Results of Radiated Emissions (9 KHz~30MHz)

Temperature23.8°C		Humidity	52.1%		
Test Engineer	Andre Tan	Configurations	BT LE, 1 Mbps		

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

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance}) (dB);$ Limit line = specific limits (dBuV) + distance extrapolation factor.

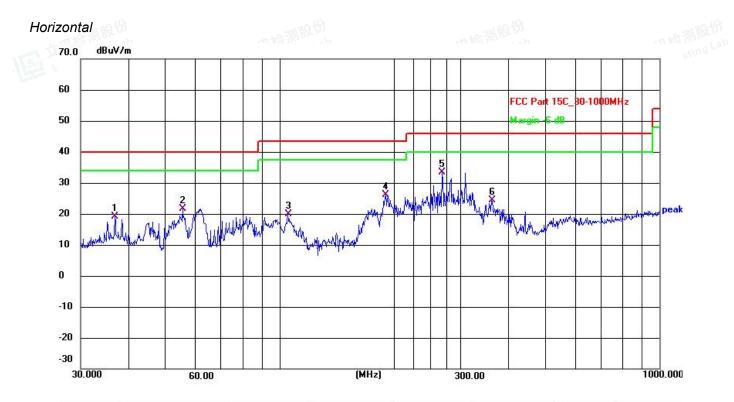
5.4.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	Temperature23.8℃		52.1%	
Test Engineer	Andre Tan	Configurations	BT LE, 1 Mbps	

PASS.

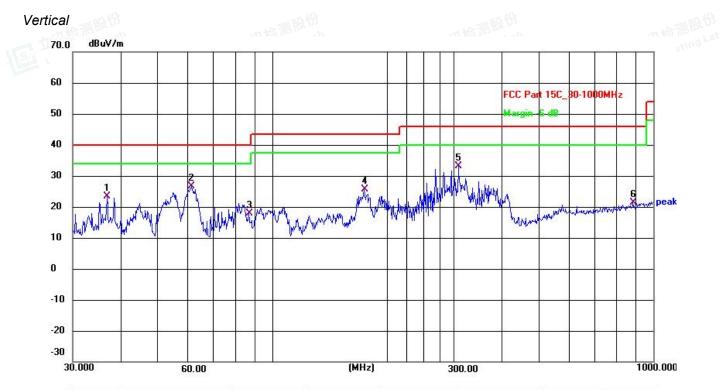
The test data please refer to following page.





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8953	36.45	-17.43	19.02	40.00	-20.98	QP
2	55.6094	37.95	-16.27	21.68	40.00	-18.32	QP
3	105.2718	37.40	-17.42	19.98	43.50	-23.52	QP
4	190.4050	45.74	-19.69	26.05	43.50	-17.45	QP
5	267.5455	49.92	-16.55	33.37	46.00	-12.63	QP
6	361.7139	38.10	-13.80	24.30	46.00	-21.70	QP





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8953	41.00	-17.69	23.31	40.00	-16.69	QP
2	61.5618	45.50	-18.95	26.55	40.00	-13.45	QP
3	86.8068	37.06	-19.20	17.86	40.00	-22.14	QP
4	174.4241	44.85	-19.16	25.69	43.50	-17.81	QP
5	307.8313	48.32	-15.18	33.14	46.00	-12.86	QP
6	884.5029	29.83	-8.54	21.29	46.00	-24.71	QP

Note:

1). Pre-scan all modes and recorded the worst case results in this report BT LE mode (1Mbps-High Channel).

2). Emission level (dBuV/m) = 20 log Emission level (uV/m).

3). Level = Reading + Factor, Margin = Level – Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor



5.4.9. Results for Radiated Emissions (1 GHz~26.5GHz)

Note: All the modes have been tested and recorded worst mode in the report.

BTLE(1Mbps)

Channel 0 / 2402 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4804.00	55.78	33.06	35.04	3.94	57.74	74.00	-16.26	Peak	Horizontal
4804.00	42.21	33.06	35.04	3.94	44.17	54.00	-9.83	Average	Horizontal
4804.00	56.85	33.06	35.04	3.94	58.81	74.00	-15.19	Peak	Vertical
4804.00	43.28	33.06	35.04	3.94	45.24	54.00	-8.76	Average	Vertical
Channe	al 19 / 2440 I	л <i>ц</i> -		15	LCS Testing		1	ST LCS TOST	108

Channel 19 / 2440 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4880.00	56.42	33.16	35.15	3.96	58.39	74.00	-15.61	Peak	Horizontal
4880.00	44.78	33.16	35.15	3.96	46.75	54.00	-7.25	Average	Horizontal
4880.00	60.35	33.16	35.15	3.96	62.32	74.00	-11.68	Peak	Vertical
4880.00	45.23	33.16	35.15	3.96	47.20	54.00	-6.80	Average	Vertical
THEFT	9 Lab		Tillin	Ing Lab		TIRAD	ing rap		1 THAN
Channe	el 39 / 2480 M	MHz							

Channel 39 / 2480 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4960.00	59.32	33.26	35.14	3.98	61.42	74.00	-12.58	Peak	Horizontal
4960.00	44.72	33.26	35.14	3.98	46.82	54.00	-7.18	Average	Horizontal
4960.00	53.22	33.26	35.14	3.98	55.32	74.00	-18.68	Peak	Vertical
4960.00	44.93	33.26	35.14	3.98	47.03	54.00	-6.97	Average	Vertical

Notes:

1). Pre-scan all modes and recorded the worst case results in this report BT LE mode (1Mbps-High Channel). 2). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), at least have 20dB margin

found between lowest internal used/generated frequency to 30MHz.

3). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.

4). 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.

5). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor



5.5. Band edge Measurements and Conducted Spurious Emissions Test

5.5.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.5.2. Measuring Instruments and Setting

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

Spectrum Parameter		Setting	
Detector		Peak	
Attenuation		Auto	
RB / VB (Emission in restricted	band)	100KHz/300KHz	
RB / VB (Emission in non-restric	cted band)	100KHz/300KHz	

5.5.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 30 MHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

5.5.4. Test Setup Layout

This test setup layout is the same as that shown in section 5.1.4.

5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.5.6. Test Results of Conducted Spurious Emissions

PASS

Please refer to Appendix A.4 for band edge measurements;

Please refer to Appendix A.5 for conducted spurious emission.

Remark:

1). Test results including cable loss;

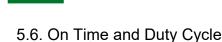
2). "----"means that the fundamental frequency not for 15.209 limits requirement.

3). Not recorded emission from 9 KHz to 30 MHz as emission level at least 20dBc lower than emission limit.





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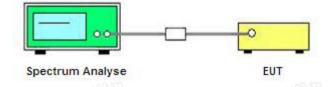
- 5.6.1. Standard Applicable
- None: for reporting purpose only.

5.6.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

5.6.3. Test Procedures

- 1. Set the center frequency of the spectrum analyzer to the transmitting frequency;
- 2. Set the span=0MHz, RBW=8.0MHz, VBW=8.0MHz, Sweep time=Auto
- 3. Detector = peak;
- 4. Trace mode = Single hold.
- 5.6.4. Test Setup Layout



5.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.6.6. Test result

For reporting purpose only. Please refer to Appendix A.6



5.7. AC Power line conducted emissions

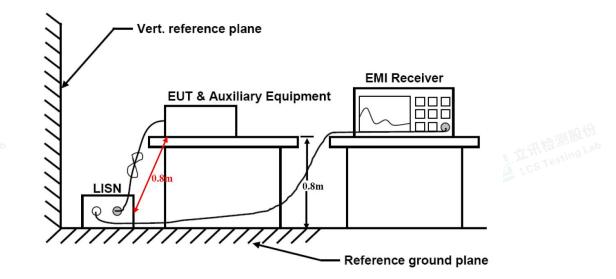
5.7.1 Standard Applicable

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 are listed as follows:

Frequency Range	Limits (dE	3μV)
(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
	60	50

* Decreasing linearly with the logarithm of the frequency

5.7.2 Block Diagram of Test Setup



5.7.3 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

5.7.4 Test Results

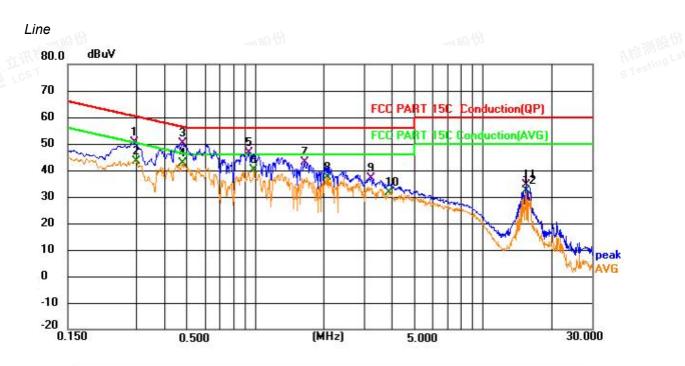
Temperature	22.5 ℃	Humidity	53.7%
Test Engineer	Andre Tan	Configurations	BT LE, 1 Mbps

PASS.

The test data please refer to following page.

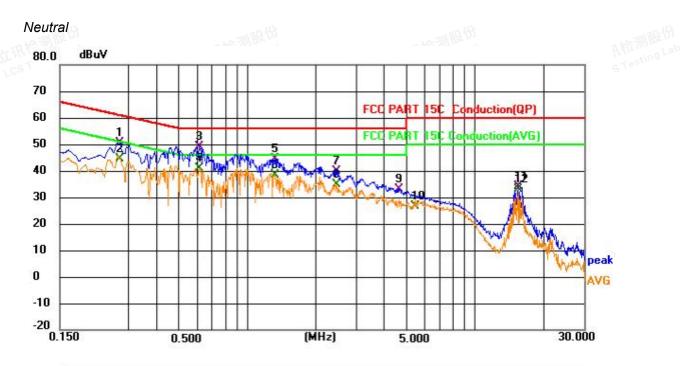


Shenzhen LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000. China



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		-
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	-
1		0.294	40.11	10.26	50.37	60.41	-10.04	QP	-
2		0.298	33.03	10.27	43.30	50.30	-7.00	AVG	· triffititi ang La
3		0.478	39.82	10.39	50.21	56.37	-6.16	QP	LCS Testing La
4	*	0.481	32.44	10.39	42.83	46.32	-3.49	AVG	-
5		0.938	36.13	10.34	46.47	56.00	-9.53	QP	-
6		0.987	29.64	10.38	40.02	46.00	-5.98	AVG	-
7		1.649	32.71	10.21	42.92	56.00	-13.08	QP	-
8		2.076	27.09	10.13	37.22	46.00	-8.78	AVG	-
9		3.237	26.49	10.34	36.83	56.00	-19.17	QP	-
10		3.862	21.31	10.26	31.57	46.00	-14.43	AVG	THE HA
11		15.432	23.86	10.57	34.43	60.00	-25.57	QP	UB row.
12		15.432	21.85	10.57	32.42	50.00	-17.58	AVG	-





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.276	40.14	10.25	50.39	60.94	-10.55	QP
2		0.276	34.27	10.25	44.52	50.94	-6.42	AVG
3		0.618	38.71	10.25	48.96	56.00	-7.04	QP
4	*	0.618	30.81	10.25	41.06	46.00	-4.94	AVG
5		1.329	34.38	10.13	44.51	56.00	-11.49	QP
6		1.329	28.24	10.13	38.37	46.00	-7.63	AVG
7		2.467	29.64	10.22	39.86	56.00	-16.14	QP
8		2.467	24.52	10.22	34.74	46.00	-11.26	AVG
9		4.641	22.90	10.03	32.93	56.00	-23.07	QP
10		5.469	16.63	10.12	26.75	50.00	-23.25	AVG
11		15.432	23.75	10.37	34.12	60.00	-25.88	QP
12		15.432	22.82	10.37	33.19	50.00	-16.81	AVG

***Note: 1).Pre-scan all modes and recorded the worst case results in this report BT LE mode (1Mbps-High Channel).

2). Measurement = Reading + Correct Factor, Margin = Measurement – Limit, Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter.

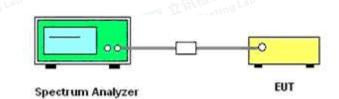


5.8. Emissions in Restricted Bands

5.8.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.8.2. Test Setup Layout



5.8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

5.8.4. Test Procedures

According to KDB558074 D01 15.247 Meas Guidance v05r02 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1). Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2). Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.

3). Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=1/T for AV detector.

4). Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

5). Repeat above procedures until all measured frequencies were complete.

6). Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

7). Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)

8). Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies \leq 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz). 9). For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mŴ). 10). Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E = EIRP - 20log D + 104.8=EIRP+95.26

Where:





 $E = electric field strength in dB\mu V/m,$

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

11). Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used. 12). Compare the resultant electric field strength level to the applicable regulatory limit.

13). Perform radiated spurious emission test duress until all measured frequencies were complete.

5.8.5 Test Results

PASS

Please refer to Appendix A.7

Remark:

1). Test results including cable loss;

2). "----"means that the fundamental frequency not for 15.209 limits requirement;

3). The average measurement was not performed when the peak measured data under the limit of average detection.

4). Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=1/T/Sweep time=Auto/Detector=Peak. 5). Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.



5.9. Antenna Requirements

5.9.1 Standard Applicable

According to antenna requirement of §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 re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

5.9.2 Antenna Connected Construction

5.9.2.1. Standard Applicable

According to § 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.

5.9.2.2. Antenna Connector Construction

The gains of antenna used for transmitting is -1.0dBi(Max.), and the antenna is PCB Antenna and no consideration of replacement. Please see EUT photo for details.

5.9.2.3. Results: Compliance.





6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2024-06-06	2025-06-05
2	Power Sensor	R&S NRV-Z81		100458	2024-06-06	2025-06-05
3	Power Sensor	R&S NRV-Z32		10057	2024-06-06	2025-06-05
4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2024-06-06	2025-06-05
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2024-10-08	2025-10-07
7	DC Power Supply	Agilent	E3642A	N/A	2024-10-08	2025-10-07
8	EMI Test Software	AUDIX	E3	/	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024-06-06	2025-06-05
10	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024-07-13	2027-07-12
15	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2024-07-30	2025-07-29
16	EMI Test Receiver	R&S	ESR 7	101181	2024-06-06	2025-06-05
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2024-06-06	2025-06-05
18	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08	2025-10-07
19	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2024-10-08	2025-10-07
20	6dB Attenuator	1-18-00	100W/6dB	1172040	2024-06-06	2025-06-05
21	3dB Attenuator	I I Marksting	2N-3dB	I horest ng h	2024-10-08	2025-10-07
22	EMI Test Receiver	R&S	ESPI 🔰	101940	2024-06-06	2025-06-05
23	Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
24	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2024-06-06	2025-06-05
25	EMI Test Software	Farad EZ		/	N/A	N/A
26	Antenna Mast	Max-Full	MFA-515BSN	1308572	N/A	N/A
27	Pulse Limiter	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-05



上CS Testing Lab





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7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup 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.

-----THE END OF REPORT------

















