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Report No.: SHEM151200458402 Page: 1 of 28

FCC TEST REPORT

Application No.:	SHEM1512004584CR		
Applicant:	HCS (Suzhou) Limited		
FCC ID:	2AGOFRC305A		
Equipment Under Tes	t (EUT):		
NOTE: The following sa	ample(s) submitted was/were identified on behalf of the client as		
Product Name:	Remote control		
Model No.(EUT):	: RC3053707/01BR		
Add Model No.:	RC3053708/01BR		
Standards:	ds: CFR 47 FCC PART 15 SUBPART C, Section 15.249		
Date of Receipt:	eceipt: December 09, 2015		
Date of Test:	December 09, 2015 to December 14, 2015		
Date of Issue:	e of Issue: December 18, 2015		
Test Result:	Pass*		

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



Report No.: SHEM151200458402 Page: 2 of 28

2 Version

Revision Record					
Version	Chapter	Date Modifier Remark			
00	/	December 18, 2015		Original	

Authorized for issue by:		
Engineer	Eddy Zong Print Name	Eddy Zong
		C
Clerk	Susie Liu	Susse Lin
	Print Name	
Reviewer	Keny Xu	Kenlf xn
	Print Name	



Report No.: SHEM151200458402 Page: 3 of 28

3 Test Summary

Test Item	Test Item Test Requirement		Result
Antenna Requirement	FCC Part 15, Subpart C Section 15.203		PASS
AC Power Line Conducted Emission	FCC Part 15, Subpart C Section 15.207	ANSI C63.10 (2013) Section 6.2	N/A
Field Strength of the Fundamental Signal	FCC Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013) Section 6.6	PASS
Radiated Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.249 (a) &15.209&15.205	ANSI C63.10 (2013) Section 6.4&6.5&6.6&6.10	PASS
20dB Bandwidth	FCC Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013) Section 6.9.2	PASS

Remark:

N/A: Not Applicable. Please refer to Section 7.3 of this report for details.

Note: The 2 models are just different in the packing and label



Report No.: SHEM151200458402 Page: 4 of 28

4 Contents

			Page
1	С	OVER PAGE	1
2	v	ERSION	2
3	т	EST SUMMARY	3
4	С	ONTENTS	4
5	G	ENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	5
	5.3	TECHNICAL SPECIFICATIONS:	5
	5.4	DESCRIPTION OF SUPPORT UNITS	5
	5.5	DEVIATION FROM STANDARDS	5
	5.6	Test Mode	5
	5.7	TEST LOCATION	
	5.8	TEST FACILITY	6
	5.9	MEASUREMENT UNCERTAINTY	6
6	E	QUIPMENTS USED DURING TEST	7
7	т	EST RESULTS	8
	7.1	E.U.T. TEST CONDITIONS	8
	7.2	ANTENNA REQUIREMENT	
	7.3	CONDUCTED EMISSIONS ON MAINS TERMINALS	
	7.4	FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL	
	7.5	RADIATED SPURIOUS EMISSIONS AND BAND-EDGE	
	7	7.5.1 Radiated Spurious Emissions	
		7.5.2 Band Edge	
	7.6	20DB OCCUPIED BANDWIDTH	25
8	т	EST SETUP PHOTOGRAPHS	
9	Е	UT CONSTRUCTIONAL DETAILS	



5 General Information

5.1 Client Information

Applicant:	HCS (Suzhou) Limited
Address of Applicant:	209 Zhu Yuan road, Building 3rd, 19-20 floor, Suzhou new district, P.R.C
Manufacturer:	HCS (Suzhou) Limited
Address of Manufacturer: 209 Zhu Yuan road, Building 3rd, 19-20 floor, Suzhou new dis	
Factory: WuJiang Century Billion Electronic Technology Co., Ltd	
Address of Factory:	No. 149 Tuncun West RD., Tongli Town, Wujiang City, Jiangsu Province, P. R. China

5.2 General Description of E.U.T.

Product Description:	Portable product	
Power Supply:	DC 3V by 2* "AA" Battery Size	
	Remark: Supply the EUT with new battery during the testing.	

5.3 Technical Specifications:

Operation Frequency:	2425MHz, 2450MHz, 2475MHz	
Modulation Technique: O-QPSK		
Number of Channel:	3	
Antenna Type:	Integral	

5.4 Description of Support Units

The EUT has been tested independently.

5.5 Deviation from Standards

None.

5.6 Test Mode

Test Mode	Description of Test Mode	
Engineering mode:	Keep EUT working in continuously transmitting mode.	

5.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

No.588 West Jindu Road, Songjiang District, Shanghai, China.201612.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678



5.8 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2017-07-14.

• FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2017-09-16.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively. Date of Expiry: 2017-11-16.

No.	Parameter	Measurement Uncertainty	
1	Radio Frequency	< ±1 x 10 ⁻⁵	
2	Total RF power, conducted	< ±1.5 dB	
3	RF power density, conducted	< ±3 dB	
4	Spurious emissions, conducted	< ±3 dB	
5	All emissions, radiated	< ±6 dB (Below 1GHz) < ±6 dB (Above 1GHz)	
6	Temperature	< ±1°C	
7	Humidity	< ±5 %	
8	DC and low frequency voltages	< ±3 %	

5.9 Measurement Uncertainty



Report No.: SHEM151200458402 Page: 7 of 28

6 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2015-01-22	2016-01-21
2	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127490	2015-01-22	2016-01-21
3	Line impedance stabilization network	ETS	3816/2	00034161	2015-01-22	2016-01-21
4	Spectrum Analyzer	Rohde & Schwarz	FSP-30	2705121009	2015-01-22	2016-01-21
5	EMI test receiver	Rohde & Schwarz	ESU40	100109	2015-02-13	2016-02-12
6	Active Loop Antenna (9kHz to 30MHz)	Schwarzbeck - Mess-Elektronik	FMZB 1519	1519-034	2015-02-07	2016-02-06
7	Broadband UHF-VHF ANTENNA (25MHz to 2GHz)	SCHWARZBECK	VULB9168	9168-313	2015-02-07	2016-02-06
8	Ultra broadband antenna (25MHz to3GHz)	Rohde & Schwarz	HL562	100227	2015-02-07	2016-02-06
9	Horn Antenna (1GHz to 18GHz)	Rohde & Schwarz	HF906	100284	2015-02-07	2016-02-06
10	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	9120D-679	2015-02-07	2016-02-06
11	Horn Antenna (14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170373	2015-02-13	2016-02-12
12	Pre-amplifier (9KHz – 2GHz)	LNA6900	TESEQ	71033	2014-12-27	2015-12-27
13	Pre-amplifier (1GHz – 26.5GHz)	Rohde & Schwarz	SCU-F0118- G40-BZ4-CSS(F)	10001	2015-01-22	2016-01-21
14	Pre-amplifier (14GHz – 40GHz)	Rohde & Schwarz	SCU-F1840- G35-BZ3-CSS(F)	10001	2015-01-22	2016-01-21



Report No.: SHEM151200458402 Page: 8 of 28

7 Test Results

7.1 E.U.T. test conditions

Requirements:15.31(e) For intentional radiators, measurements of the variation of the input
power or the radiated signal level of the fundamental frequency component of
the emission, as appropriate, shall be performed with the supply voltage
varied between 85% and 115% of the nominal rated supply voltage. For
battery operated equipment, the equipment tests shall be performed using a
new battery.OperatingTemperature:20.0 - 25.0 °C

Temperature:	20.0 -25.0 °C
Humidity:	35-75 % RH
Atmospheric Pressure:	99.2 -102kPa

Test frequencies:

Environment:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. if required. reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over	Number of	Location in the range of
which device operates	frequencies	operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top. 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported. Lowest channel(2425MHz), Middle channel (2450MHz) and Highest channel (2475MHz).



Report No.: SHEM151200458402 Page: 9 of 28

7.2 Antenna Requirement

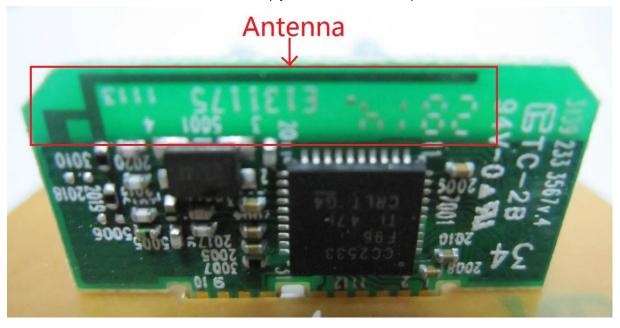
Standard requirement:

15.203 requirement:

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, 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

EUT Antenna:

The EUT antenna is internal Antenna. It comply with the standard requirement.





Report No.: SHEM151200458402 Page: 10 of 28

7.3 Conducted Emissions on Mains Terminals

Frequency Range:	
Class/Severity:	
Limit:	

: 150 KHz to 30 MHz Class B

Frequency range	Class B Li	mits: dB (μV)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

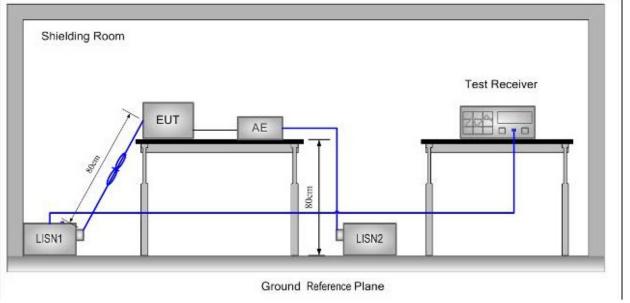
Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test site/setup:

Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
9KHz to 150Hz	Quasi-peak	200Hz	500Hz
150KHz to 30MHz	Quasi-peak	9kHz	30kHz



Test Procedure:

- 1. The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- 2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu$ H + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
- 3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference



Report No.: SHEM151200458402 Page: 11 of 28

plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

- 4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.
- Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Please see the attached Quasi-peak and Average test results.

Test Result: N/A

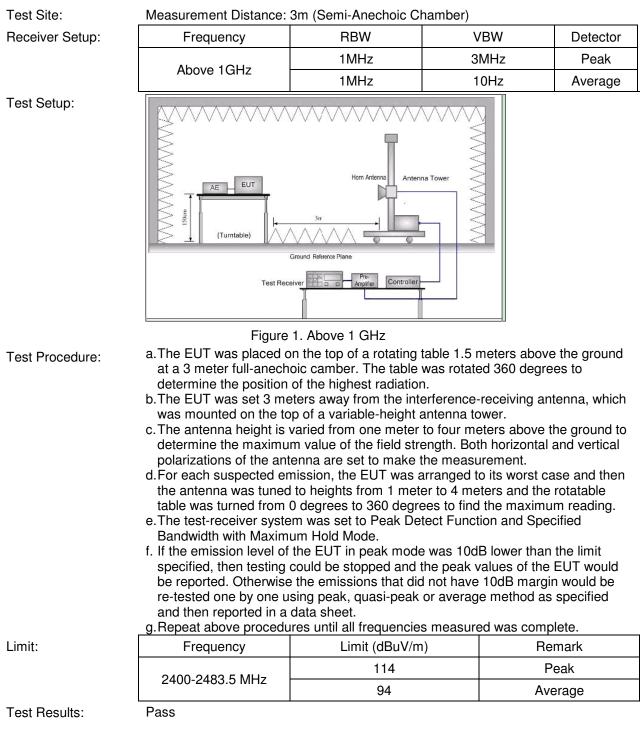
Test Data:

Note: This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.



Report No.: SHEM151200458402 Page: 12 of 28

7.4 Field Strength of the Fundamental Signal





Report No.: SHEM151200458402 Page: 13 of 28

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
2425	76.12	-6.50	69.62	94.00	-24.38	Peak	Horizontal
2420	77.67	-6.50	71.17	94.00	-22.83	Peak	Vertical
2450	78.79	-6.46	72.33	94.00	21.67	Peak	Horizontal
2400	76.22	-6.46	69.76	94.00	24.24	Peak	Vertical
0475	76.56	-6.43	70.13	94.00	23.87	Peak	Horizontal
2475	72.83	-6.43	66.40	94.00	27.60	Peak	Vertical

Remark:

1) The basic equation with a sample calculation is as follows: Level = Read Level + Factor.

(The Factor is calculated by adding the Antenna Factor, Cable Loss and Preamp Factor)

2) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

Note: Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted



Report No.: SHEM151200458402 Page: 14 of 28

7.5 Radiated Spurious Emissions and Band-edge

Frequency Range:	9KHz to 25GHz											
Test site/setup:	site/setup: Measurement Distance: 3m Test instrumentation set-up:											
	Frequency Range	Detector	RBW	VBW								
	0.009MHz-0.090MHz	Peak	10kHz	30kHz								
	0.009MHz-0.090MHz	Average	10kHz	30kHz								
	0.090MHz-0.110MHz	0.090MHz-0.110MHz Quasi-peak 10kH										
	0.110MHz-0.490MHz	Peak	10kHz	30kHz								
	0.110MHz-0.490MHz	Average	10kHz	30kHz								
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz								
	30MHz-1GHz	Quasi-peak	100kHz	300kHz								
	Above 1GHz	Peak	- RBW=1MHz	VBW≥RBW								
		Average		VBW=10Hz								
Sweep=Auto												
15.209 Limit:	Frequenc	у	Limit (dE	BuV/m)								
	0.009MHz-0.49	0MHz	128.5 ~	[,] 93.8								

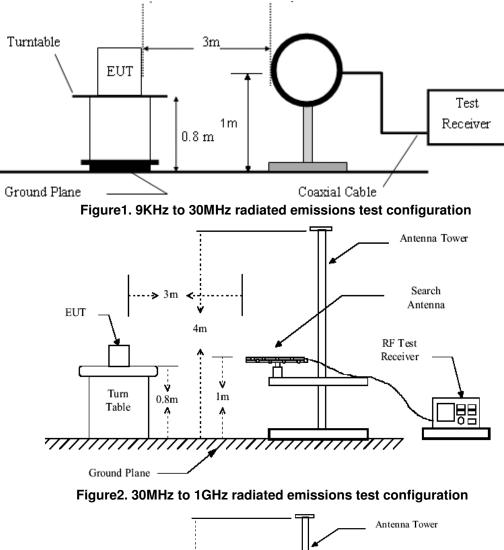
Frequency	Limit (dBuV/m)			
0.009MHz-0.490MHz	128.5 ~ 93.8			
0.490MHz-1.705MHz	73.8 ~63.0			
1.705MHz-30MHz	69.5			
30MHz-88MHz	40.0			
88MHz-216MHz	43.5			
216MHz-960MHz	46.0			
960MHz-1GHz	54.0			
Above 1GHz	54.0			

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



Report No.: SHEM151200458402 Page: 15 of 28

Test Configuration:



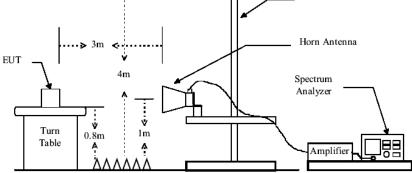


Figure3. Above 1GHz radiated emissions test configuration



Test Procedure: The procedure used was ANSI Standard C63.10. The receiver was scanned from 9KHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported. Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz. Between 1G and 3GHz, we did not use any amplifier or filter. Pre-test was performed on Antenna A and Antenna B mode, Compliance test was performed on worse case (Antenna A mode). Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted. 1) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic. 2) As shown in Section, for frequencies above 1000MHz. the above field strength

2) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

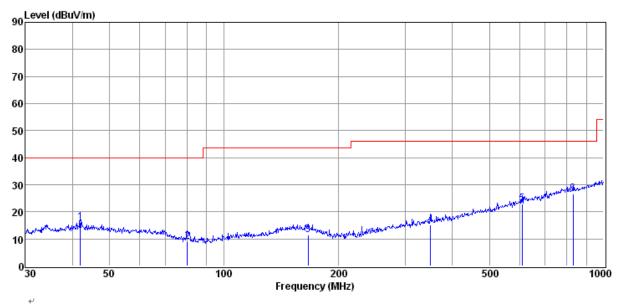
The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.

Test Result: Pass



Report No.: SHEM151200458402 Page: 17 of 28

7.5.1 Radiated Spurious Emissions



Item₽	Freq.₽	Read ↓ Level₽	Antenna↓ Factor+	Preamp↓ Factor₽	Cable↔ Loss∻	Result≁ Level≁	Limit + Line+	Over ↓ Limit₽	Detector	Polarization+ ²
(Mark).,	(MHz).,	(dBµV)₀	(dB/m).,	(dB).,	(dB).,	(dBµV/m).₁	(dBµV/m).₁	(dB).,	сь С	
1₽	41.91@	26.88#	13.22₽	24.70₽	0.58₽	15.98₽	40.00@	-24.02#	QP₽	VERTICAL 🖉
242	80.080	24.07#	8.80₽	24.70₽	0.87@	9.04₽	40.00@	-30.96@	QP₽	VERTICAL 🤪
3⊷	166.65@	22.39+	12.40₽	24.63₽	1.35₽	11.51@	43.50₽	-31.99#	QP₽	VERTICAL 🖉
4₽	350.48#	23.96₽	13.61₽	24.50+2	2.12₽	15.19₽	46.00@	-30.81@	QP₽	VERTICAL 🕫
5₽	609.86#	24.75₽	19.40₽	24.20₽	2.94₽	22.89₽	46.00@	-23.11@	QP₽	VERTICAL 🥥
642	831.42@	24.57#	22.45₽	23.90₽	3.52₽	26.64₽	46.00₽	-19.36¢	QP₽	VERTICAL 🕫

4

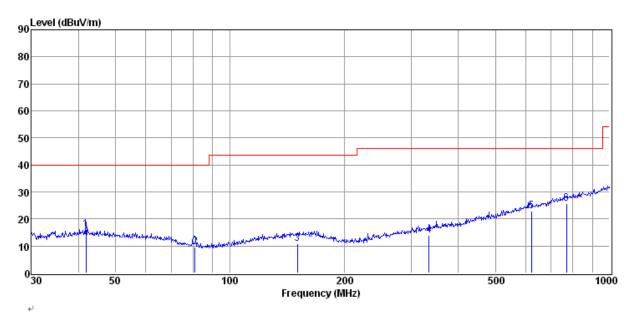
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor $\!$

2. If Peak Result comply with QP limit QP Result is deemed to comply with QP limit.

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Report No.: SHEM151200458402 Page: 18 of 28



Item₽	Freq.₽	Read ↓ Level+ ²	Antenna↓ Factor₽	Preamp↓ Factor₽	Cable↔ Loss⇔	Level	Limit ↓ Line≁	Over ↓ Limit₽	Detector	Polarization <i>₽</i>	¢
(Mark).,	(MHz).,	(dBµV).,	(dB/m).,	(dB).,	(dB).,	(dBµV/m).,	(dBµV/m).₁	(dB).,	¢		ę
1₽	41.80₽	26.88₽	13.23₽	24.70₽	0.57₽	15.98₽	40.00@	-24.02₽	QP₽	HORIZONTAL®	÷
2₽	80.93₽	24.57₽	8.77₽	24.70₽	0.88@	9.52e	40.00@	-30.48@	QP₽	HORIZONTAL®	÷
3₽	150.54#	21.67@	12.69₽	24.70₽	1.27₽	10.93@	43.50₽	-32.57₽	QP₽	HORIZONTAL®	₽
4₽	334.86+	23.04#	13.30₽	24.50₽	2.07₽	13.91@	46.00@	-32.09₽	QP₽	HORIZONTAL	¢
5₽	621.88+	24.53₽	19.64₽	24.20₽	2.97₽	22.94₽	46.00@	-23.06₽	QP₽	HORIZONTAL®	÷
6₽	769.54₽	24.33₽	21.89#	24.00₽	3.38₽	25.60₽	46.00@	-20.40₽	QP₽	HORIZONTAL	₽

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor+

2. If Peak Result comply with QP limit QP Result is deemed to comply with QP limit.

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Report No.: SHEM151200458402 Page: 19 of 28

Above 1GHz

Operation Mode: TX Low CH (2425MHz)

Frequency (MHz)	Factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Detector	AV Limit (dBμV/m)	Over Limit (dB)	Antenna polarization
4842	-8.31	39.22	30.91	Peak	54	-23.09	Vertical
7273	-3.19	39.36	36.17	Peak	54	-17.83	Vertical
9687	-0.05	40.34	40.29	Peak	54	-13.71	Vertical
12135	-2.92	41.52	38.60	Peak	54	-15.40	Vertical
4842	-8.31	39.72	31.41	Peak	54	-22.59	Horizontal
7273	-3.19	39.50	36.31	Peak	54	-17.69	Horizontal
9687	-0.05	39.50	39.45	Peak	54	-14.55	Horizontal
12135	-2.92	41.24	38.32	Peak	54	-15.68	Horizontal

Operation Mode: TX Mid CH (2450MHz)

Frequency (MHz)	Factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Detector	AV Limit (dBμV/m)	Over Limit (dB)	Antenna polarization
4910	-8.13	39.67	31.54	Peak	54	-22.46	Vertical
7358	-2.82	41.29	38.47	Peak	54	-15.53	Vertical
9789	-0.13	40.84	40.71	Peak	54	-13.29	Vertical
12254	-3.10	40.23	37.13	Peak	54	-16.87	Vertical
4910	-8.13	40.39	32.26	Peak	54	-21.74	Horizontal
7358	-2.82	41.62	38.80	Peak	54	-15.20	Horizontal
9806	-0.14	40.19	40.05	Peak	54	-13.95	Horizontal
12254	-3.10	41.21	38.11	Peak	54	-15.89	Horizontal

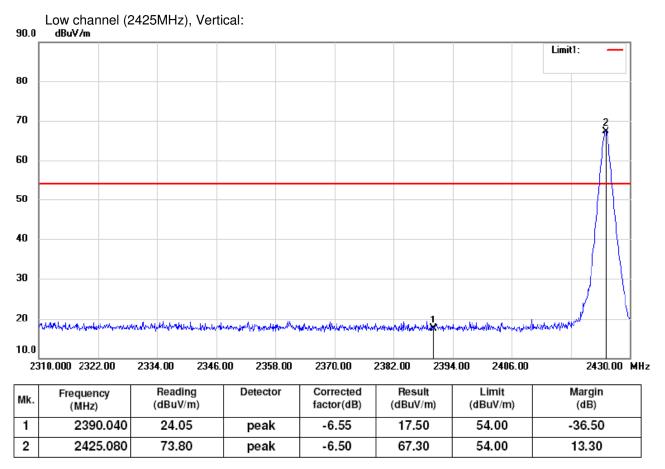
Operation Mode: TX High CH (2475MHz)

Frequency (MHz)	Factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Detector	AV Limit (dBμV/m)	Over Limit (dB)	Antenna polarization
4927	-8.09	41.21	33.12	Peak	54	-20.88	Vertical
7426	-2.53	40.43	37.90	Peak	54	-16.10	Vertical
9891	-0.21	40.17	39.96	Peak	54	-14.04	Vertical
12373	-3.29	40.94	37.65	Peak	54	-16.35	Vertical
4927	-8.09	40.11	32.02	Peak	54	-21.98	Horizontal
7426	-2.53	41.07	38.54	Peak	54	-15.46	Horizontal
9925	-0.23	40.67	40.44	Peak	54	-13.56	Horizontal
12373	-3.29	41.41	38.12	Peak	54	-15.88	Horizontal



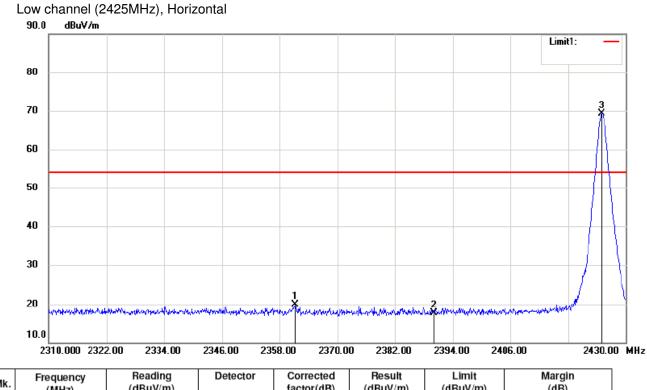
Report No.: SHEM151200458402 Page: 20 of 28

7.5.2 Band Edge





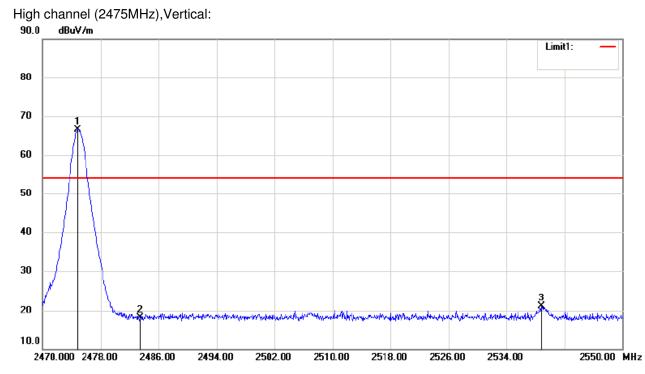
Report No.: SHEM151200458402 Page: 21 of 28



Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2361.240	26.45	peak	-6.59	19.86	54.00	-34.14
2	2390.040	24.34	peak	-6.55	17.79	54.00	-36.21
3	2424.960	75.86	peak	-6.51	69.35	54.00	15.35



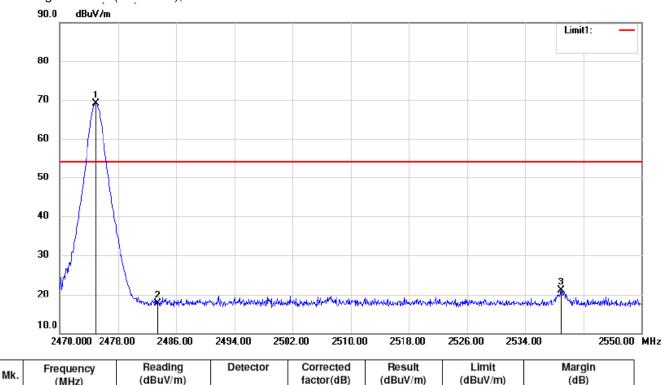
Report No.: SHEM151200458402 Page: 22 of 28



Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2474.880	73.03	peak	-6.43	66.60	54.00	12.60
2	2483.520	24.47	peak	-6.41	18.06	54.00	-35.94
3	2538.800	27.33	peak	-6.30	21.03	54.00	-32.97



Report No.: SHEM151200458402 Page: 23 of 28



High channel (2475MHz), Horizontal

ΜК.	(MHz)	(dBuV/m)		factor(dB)	(dBuV/m)	(dBuV/m)	(dB)
1	2474.960	75.63	peak	-6.43	69.20	54.00	15.20
2	2483.520	24.18	peak	-6.41	17.77	54.00	-36.23
3	2538.960	27.33	peak	-6.30	21.03	54.00	-32.97

Remark: 1. Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

2. No any other emission which falls in restricted bands can be detected and be reported.

3. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



Report No.: SHEM151200458402 Page: 24 of 28

All frequencies within the "Restricted bands" have been evaluated to compliance. Section 15.205 Restricted bands of operation.

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	10.5 - 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	2655 - 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		
13.36 - 13.41				

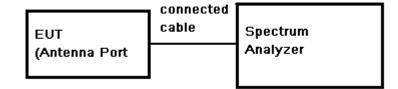
1. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.



Report No.: SHEM151200458402 Page: 25 of 28

7.6 20dB Occupied Bandwidth

Test Configuration:



Test Procedure:

- Place the EUT on the table and set it in Engineering mode.
 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- Set the spectrum analyzer as RBW = 100 kHz, VBW =100KHz, Span=5MHz, Sweep=auto
- 4. Mark the peak frequency and -20dB (upper and lower) frequency.
- 5. Repeat above procedures until all frequency measured was complete.

Limit:

Test Result: Pass

N/A

Test Data:

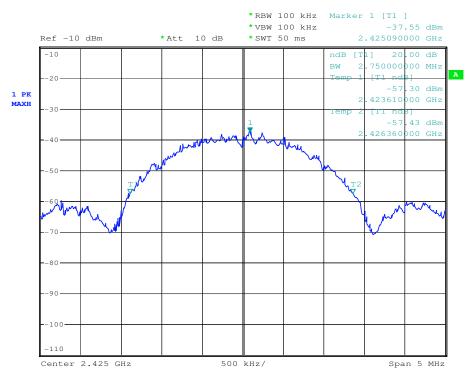
Antenna	СН	Frequency (MHz)	Bandwidth (MHz)	Result
	Low	2425	2.75	PASS
А	Mid	2450	2.82	PASS
	High	2475	2.86	PASS



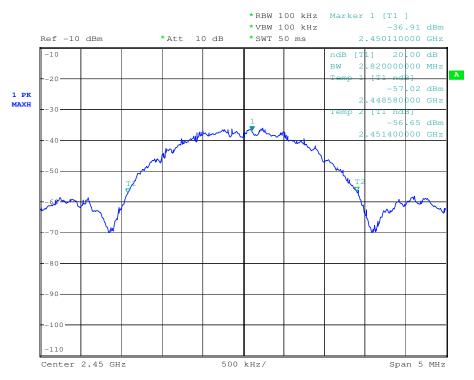
Report No.: SHEM151200458402 Page: 26 of 28

Test Plot:

Low Channel(2425MHz):



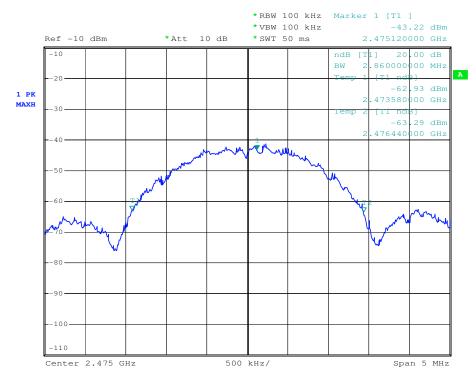
Middle Channel(2450MHz):





Report No.: SHEM151200458402 Page: 27 of 28

High Channel(2475MHz):





8 Test Setup Photographs

Refer to the < RC3053707/01BR _Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < RC3053707/01BR _External Photos-FCC > & < RC3053707/01BR _Internal Photos-FCC>.

--End of the Report--